GOVERNMENTAL AGENCIES

BUILDING DEPARTMENT
City of Helena | Building Division
316 N. Park Avenue, Room 445
Helena, MT 59623
Phone: (406) 447-8438
Contact Name: Tammy Dupree, Administrative Assistant II
Contact Email: tdupree@helenamt.gov
citybuilding@helenamt.gov

FIRE DEPARTMENT
City of Helena | Fire Department
300 Neill Ave, Helena, MT 59601
Phone: (406) 447-8497
Contact Name: Lou Antonick, Fire Marshal
Contact Email: LAntonick@helenamt.gov
helenafiredepartment@helenamt.gov

HEALTH DEPARTMENT
Lewis and Clark County Public Health
1930 9th Avenue, Helena, MT 59601
Phone: (406) 447-8361
Contact Name: Nina Heinzinger
Public Health Sanitarian
Contact Email: PHLicEst@lccountymt.gov

BUILDING DATA

BUILDING CODE:
2021 International Building Code

PLUMBING CODE:
2021 Uniform Plumbing Code

MECHANICAL CODE:
2021 International Mechanical Code

ELECTRICAL CODE:
2020 National Electrical Code

FIRE CODE:
2021 International Fire Code
with (2023) State Amendments

ACCESSIBLITY CODE:
2017 ANSI Standard A117.1

ENERGY CODE:
INTERNATIONAL ENERGY CONSERVATION CODE, 2021 EDITION

DEFERRED SUBMITTALS

1 AUTOMATIC FIRE SPRINKLER & FIRE ALARM PLANS
2 SIGNAGE PLANS
3 TRUSSES
4 ANSUL FIRE SUPRESSION SYSTEM (HOODS)

05484
BTS LS XPS
CUSTER & WASHINGTON

2770 N WASHINGTON STREET
HELENA, MONTANA 59602

CURRENT ADOPTED CODES:
All aspects of this project shall comply with the following codes and City Code of Helena:
2021 International Building Code
2021 International Existing Building Code
2021 Uniform Plumbing Code
2021 International Mechanical Code
2021 International Fuel Gas Code
2020 National Electric Code
2021 International Fire Code
2021 International Energy Conservation Code
Administrative Rules of Montana (ARM) Title 24, Chapter 301

NOTE: Plans and specs shall not be changed, modified or altered without authorization from The City of Building Division.

This permit shall be null and void if work or construction authorized is not commenced within 180 days, or if construction or work is suspended or abandoned for a period of 180 days at any time after work has commenced.

The holder of this permit will be required to comply with all applicable provisions of the building code and city ordinances in effect even if the necessity for compliance is discovered after issuance of the permit.

APPROVED
City of Helena Building Division

Approval of this document does not authorize the violation of any state, county, or city law or regulation.

Permit Number: BCOM24-00055
By: MGF
Date: 11-24-25
Remarks: All work is subject to field inspection and code compliance.

IT IS UNLAWFUL TO OCCUPY THIS BUILDING PRIOR TO THE FINAL INSPECTION

CITY OF HELENA
Building Division
447-8437 or 447-8438
ALL REQUIRED INSPECTIONS SHALL BE REQUESTED THROUGH CIVIC ACCESS

IMPORTANT NOTICE

No Building Shall Be Occupied Prior To Final Inspection

No building or structure shall be used or occupied until the Building Official has issued a certificate of occupancy. Issuance of a Certificate of Occupancy shall not be construed as an approval of a violation of the provisions of this code or of other ordinances of The City of Helena Montana.

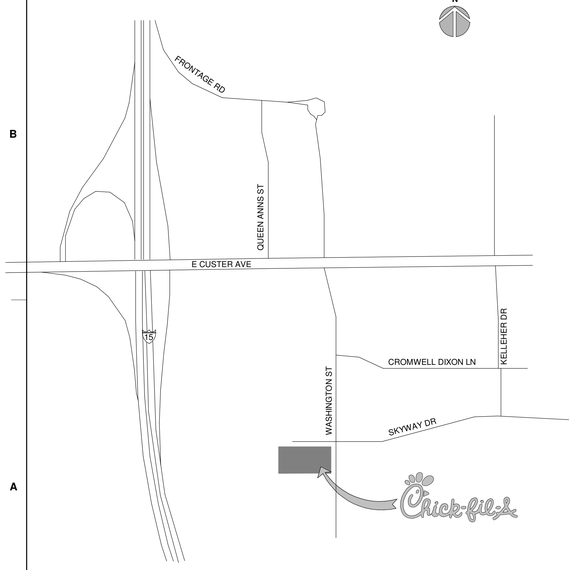
Final Inspections shall be called into the Building Division 10 days prior to inspection.

PERMIT COPY
THIS SET OF APPROVED PLANS TO BE ON JOB SITE AT ALL TIMES

Think Asbestos!
Before you renovate or demolish
INSPECT for Asbestos using a Montana accredited inspector
NOTIFY/ PERMIT Montana's Department of Environmental Quality (DEQ) Asbestos Control (AC)
deq.mt.gov/AIR
https://deq.mt.gov/Compliance/programs/asbestos
It's the Law!
DEQ

Montana811.org
Know what's below. Call 811, or Click, before you dig.

VICINITY MAP



REGION: WEST

DESIGNOTES APPLIED IN CURRENT PROJECT

DESIGNOTE #	REV #	DESCRIPTION
2023-028	0	ELECTRICAL STUB PASS-THRU
2023-029	0	PICK-UP SIGN
2023-031	0	NEW INFRARED HEATER SPECIFICATION - REV 1
2023-032	0	FRONT SECURITY CAMARA
2023-034	0	NEW FLY LIGHT SPECIFICATIONS - REV 1
2023-035	0	HVAC CONTROL WIRING
2023-036	0	KNOCK-DOWN DRYWALL (KD) FRAMES
2023-037	0	BEVERAGE TOWER FLOOR SINKS
2023-039	0	CARD READERS AT EXTERIORS DOORS
2023-040	0	TRANE FRESH AIR TEMPERING CONTROL
2024-001	0	TECH CLOSET RESIZING
2024-002	0	PLUMBING SCHEDULE CLARIFICATION
2024-003	0	BTS REFRIGERATION OUTLET AT MOBILE COCKPIT
2024-004	0	DISCONTINUING RED PENNY TILE
2024-006	0	PLUMBING SUPPLIER UPDATE
2024-008	0	EXTERIOR STOREFRONT DETAIL UPDATE
2024-009	0	ADDITION OF TRUSS BEARING CLIP LOAD INFORMATION
2024-010	0	HALTON EXHAUST FAN IMPLEMENTATION
2024-011	0	BEVERAGE SYSTEM REPLACEMENTS FOR ER
2024-012	0	BIOZONE UNIT INSTALL LOCATION
2024-013	0	DRIVE THROUGH PANIC BUTTON
2024-014	0	REFIGERATED EQUIPMENT STAND MODEL # CORRECTION

DESIGNOTES APPLIED IN CURRENT PROJECT

DESIGNOTE #	REV #	DESCRIPTION
2024-016	0	DUAL SIDED COLD RAIL
2024-020	0	TECH CLOSET DOOR HARDWARE CHANGE
2024-023	0	ICE DREAM MACHINE ELECTRICAL UPDATE
2025-009	0	BLOCKING UPDATES
2025-010	0	ICE MACHINE & CONDENSER MODEL CHANGES
2025-014	0	TRIMARK CONTACT UPDATE
2025-021	0	VO DIRECT PURCHASE OF BOOSTER PUMPS

ITEMS OF IMPORTANCE

INCLUDED IN PROJECT	ITEM NUMBER	ITEM DESCRIPTION
Yes	1	TECH-CLOSET RESIZING
Yes	2	ENLARGED FREEZER/COOLER

*NOTE: REVISION SCHEDULE ABOVE MAY NOT LIST REVISIONS TO ALL DISCIPLINES. REFER TO REVISED DRAWINGS FOR CHANGES TO SHEETS NOT LISTED HERE.

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KITCHEN
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Irvine, CA 92602
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Contact Email:
rdahlmann@ctsaz.com

Chick-fil-A
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Atlanta, Georgia
30349-2998

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PLANNING
INTERIORS
CIVIL ENGINEERING
LAND SURVEYING
BUILDING MEASUREMENT
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Los Angeles, CA 90017
P 310.903.4000

KEVIN T. EVERNHAM
3199
SCOTTSDALE, AZ
REGISTERED ARCHITECT
STATE OF MONTANA
11/12/2025

CHICK-FIL-A
CUSTER & WASHINGTON
2770 N WASHINGTON STREET
HELENA, MONTANA 59602

FSR#05484
BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
PRINTED FOR
PERMIT RESUBMITTAL

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	2024-04-24	PLAN CHECK
1	2024-07-11	PLAN CHECK - REV 1
2	2025-08-22	PLAN CHECK - REV 2
4	2025-10-20	PLAN CHECK - REV 4

PERMIT COPY
THIS SET OF APPROVED PLANS TO BE ON JOB SITE AT ALL TIMES

CONSULTANT PROJECT # LAX22-0129-01
DATE 10/20/2025
DRAWN BY M.M.O./ K.G.

Information contained on this drawing and in all digital files produced for above named project may not be reproduced in any manner without express written or verbal consent from authorized project representatives.

SHEET
COVER SHEET

SHEET NUMBER
G-000

11/12/2025 2:22:24 PM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_ARC.rvt
00-LS-05484-G-000-COVER SHEET

BUILDING DEPARTMENT

1) CONSTRUCTION OF THIS PROJECT IS SUBJECT TO FIELD VERIFICATION AND ADDITIONAL ITEMS MAY NEED TO BE ADDRESSED AND/OR CORRECTED UPON INSPECTION IN THE FIELD. NOTIFY THE BUILDING DEPARTMENT OF ANY CHANGES THAT MAY AFFECT BUILDING CODE COMPLIANCE. CONTRACTOR SHALL CALL FOR INSPECTIONS AS REQUIRED.

2) ROOF COVERING SHALL BE INSTALLED AS REQUIRED BY THE MANUFACTURER'S INSTALLATION INSTRUCTION. MANUFACTURER'S INSTALLATION INSTRUCTIONS MUST BE AVAILABLE ON SITE AT TIME OF INSPECTION.

3) ALL BUILDING AND SITE SIGNAGE REQUIRES SEPARATE APPLICATION, REVIEW, APPROVAL, AND PERMITS. SIGNAGE, INCLUDING WAY FINDING SIGNS, SHALL COMPLY WITH CITY CODE TITLE 11, CH. 23. SUBMIT SEPARATE SIGN PLAN FOR REVIEW, APPROVAL, AND PERMITTING.

4) AS PER IBC 1010.1.9 DOOR OPERATIONS, EXCEPT AS SPECIFICALLY PERMITTED BY THIS SECTION, EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

5) AS PER IBC 1010.1.9.1 HARDWARE. DOOR HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON DOORS REQUIRED TO BE ACCESSIBLE BY CHAPTER 11 SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE.

6) ALL ACCESSIBLE ROUTES AND ACCESSIBLE FEATURES WILL BE SUBJECT TO FIELD INSPECTION AND MUST BE CODE COMPLIANT.

7) ACCESSIBLE PARKING SPACE SIGNS TO INCLUDE "$100 FINE" AS PART OF THE SIGN AS PER ADMINISTRATIVE RULES OF MONTANA 24.301.905, MCA 49-4-307.

9) PROVIDE ENGINEERED TRUSS DRAWINGS FOR REVIEW AS DEFERRED SUBMITTAL. APPROVED ENGINEERED TRUSS DRAWINGS MUST BE ON SITE AT TIME OF INSPECTION.

10) THIRD-PARTY (FPE) REVIEW WILL BE REQUIRED FOR ANY FIRE AND LIFE SAFETY SYSTEM MODIFICATIONS THAT CONTAINS OR ALTERS 20 OR MORE DEVICES. THE TWENTY DEVICES INCLUDE PANELS, MANUAL PULL STATIONS, NOTIFICATION AND DETECTION DEVICES, SPRINKLER HEADS, ETC. SPRINKLER SYSTEM PLANS WILL NEED TO BE SUBMITTED IN A TIMELY MANNER FOR REVIEW AND APPROVAL. FIRE SPRINKLER AND FIRE ALARM PLANS SHALL BE SUBMITTED UNDER A SEPARATE PERMIT. FIRE PROTECTION PLANS SHALL BE SUBMITTED FOR REVIEW WITHIN 30 DAYS OF BUILDING PERMIT ISSUANCE.

ELECTRIC

1) ALL LUMINAIRES IN SUSPENDED CEILINGS TO HAVE THEIR OWN INDIVIDUAL SUPPORT WIRES AND THEY ARE REQUIRED TO BE SECURED TO THE GRID.

2) LUMINAIRE SHALL BE SECURELY FASTENED TO THE CEILING FRAMING MEMBER BY MECHANICAL MEANS SUCH AS BOLTS, SCREWS, OR RIVETS. AS PER NEC 410.36. (B) NOTE

FIRE DEPARTMENT

1) THE PROPOSED FIRE HYDRANT LOCATION AS NOTED ON PAGE C6.0 ON THE SITE/CIVIL PLANS IS APPROVED AND MUST BE INSTALLED PER 2021 INTERNATIONAL FIRE CODE (IFC) SECTION 507 AND CITY OF HELENA ENGINEERING STANDARDS.

2) ALL WORK IS SUBJECT TO FIELD VERIFICATION AND ADDITIONAL ITEMS MAY NEED TO BE ADDED, CORRECTED, MOVED, OR DELETED. PLEASE CALL THE CITY OF HELENA BUILDING DIVISION FOR ALL HELENA FIRE DEPARTMENT (HFD) INSPECTIONS AND TESTING.

4) FIRE DEVICE/SYSTEM MODIFICATIONS – THIRD-PARTY REVIEW WILL BE REQUIRED FOR ANY FIRE AND LIFE SAFETY SYSTEM MODIFICATIONS THAT CONTAIN OR ALTERS 20 OR MORE DEVICES. THE 20 DEVICES INCLUDE: PANELS, MANUAL PULL STATIONS, NOTIFICATION AND DETECTION DEVICES, SPRINKLER HEADS, ETC. IF THE SYSTEM MODIFICATION CONTAINS FEWER THAN 20 DEVICES, PLANS WILL NOT REQUIRE A THIRD-PARTY REVIEW BUT MUST BE SUBMITTED DIRECTLY TO THE BUILDING DEPARTMENT FOR CITY OF HELENA FIRE DEPARTMENT REVIEW. FIRE SPRINKLER AND FIRE ALARM PLANS SHALL BE SUBMITTED UNDER A SEPARATE PERMIT. FIRE PROTECTION PLANS SHALL BE SUBMITTED FOR REVIEW WITHIN 30 DAYS OF BUILDING PERMIT ISSUANCE. ACKNOWLEDGED

5) EVERY AREA CONTAINING FIRE PROTECTION, FIRE DETECTION, UTILITIES, OR OTHER EQUIPMENT USED DURING EMERGENCY OPERATIONS SHALL BE CLEARLY IDENTIFIED. SIGNAGE SHALL BE OF A DURABLE MATERIAL, PERMANENTLY INSTALLED, AND HAVE A RED BACKGROUND WITH WHITE 1 ½ LETTERING. SOME OF THE SIGN REQUIREMENTS ARE AS FOLLOWS: FIRE ALARM, FIRE SPRINKLER, MECHANICAL, ELECTRICAL, ETC.

6) FIRE EXTINGUISHERS PLACED PER 2021 INTERNATIONAL FIRE CODE (IFC) SECTION 906 AND NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 10. CONTACT THE HELENA FIRE DEPARTMENT FIRE MARSHAL IF ASSISTANCE IS REQUIRED IN PLACEMENT OF THE FIRE EXTINGUISHERS. ONLY A K EXTINGUISHER IN THE KITCHEN, NO ABC.

7) APPLICABLE SECTIONS OF 2021 IFC, CHAPTER 33 "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION. THE OWNER OR OWNER'S AUTHORIZED AGENT SHALL BE RESPONSIBLE FOR THE DEVELOPMENT, IMPLEMENTATION, AND MAINTENANCE OF AN APPROVED SITE SAFETY PLAN IN ACCORDANCE WITH 2021 IFC, CHAPTER 33, SECTION 3303.

8) THE SITE MUST REMAIN ACCESSIBLE TO ALL EMERGENCY SERVICES DURING CONSTRUCTION. AFTER HOUR CONTACT NUMBERS MUST BE POSTED AT THE JOB TRAILER AND MUST ALSO BE SUBMITTED TO THE FIRE MARSHAL FOR INCLUSION IN THE HFD RESPONSE RECORD SYSTEM FOR THE PROJECT.

9) FOR ANY WELDING OR HOT WORK ALL APPLICABLE SECTIONS OF 2021 IFC, CHAPTER 35 "WELDING AND OTHER HOT WORK"

10) THE ADDRESS POSTED PER 2021 IFC, SECTION 505. THE NUMBERS MUST CONTRAST WITH THE BACKGROUND AND MUST BE CLEARLY VISIBLE FROM THE STREET.

11) A KNOX BOX MUST BE INSTALLED NO HIGHER THAN 5 FEET FROM THE GROUND AT THE FRONT ENTRANCE.

12) FOR THE FIRE SPRINKLER SYSTEM/RISER ROOM, THE FOLLOWING FROM 2021 IFC AND NFPA 13 APPLIES. 901.4.7.1 ACCESS. AUTOMATIC SPRINKLER SYSTEM RISERS, FIRE PUMPS AND CONTROLLERS SHALL BE PROVIDED WITH READY ACCESS. WHERE LOCATED IN A FIRE PUMP ROOM OR AUTOMATIC SPRINKLER SYSTEM RISER ROOM, THE DOOR SHALL BE PERMITTED TO BE LOCKED PROVIDED THAT THE KEY IS AVAILABLE AT ALL TIMES. 901.4.7.2 MARKING ON ACCESS DOORS. ACCESS DOORS FOR AUTOMATIC SPRINKLER SYSTEM RISER ROOMS AND FIRE PUMP ROOMS SHALL BE LABELED WITH AN APPROVED SIGN. THE LETTERING SHALL BE IN CONTRASTING COLOR TO THE BACKGROUND. LETTERS SHALL HAVE A MINIMUM HEIGHT OF 2 INCHES (51 MM) WITH A MINIMUM STROKE OF 3/8 INCH (10 MM). 901.4.7.3 ENVIRONMENT. AUTOMATIC SPRINKLER SYSTEM RISER ROOMS AND FIRE PUMP ROOMS SHALL BE MAINTAINED AT A TEMPERATURE OF NOT LESS THAN 40°F (4°C). HEATING UNITS SHALL BE PERMANENTLY INSTALLED.

13) FOR THE FIRE DEPARTMENT CONNECTION, 2021 IFC, SECTION 912.2 LOCATION. WITH RESPECT TO HYDRANTS, DRIVEWAYS, BUILDINGS AND LANDSCAPING, FIRE DEPARTMENT CONNECTIONS SHALL BE SO LOCATED THAT FIRE APPARATUS AND HOSE CONNECTED TO SUPPLY THE SYSTEM WILL NOT OBSTRUCT ACCESS TO THE BUILDINGS FOR OTHER FIRE APPARATUS. THE LOCATION OF FIRE DEPARTMENT CONNECTIONS SHALL BE APPROVED BY THE FIRE CODE OFFICIAL. THE LOCATION WILL BE DETERMINED BY THE FIRE MARSHAL AND FIRE SPRINKLER CONTRACTOR.

14) FOR THE FIRE ALARM ANNUNCIATOR PANELS (FAAP) AND FIRE ALARM CONTROL PANEL (FACP) LOCATIONS, PLEASE CONTACT THE FIRE MARSHAL.

16) AS BUILT FOR THE FIRE ALARM AND FIRE SPRINKLER SYSTEM MUST BE IN A DOCUMENTATION BOX AT THE FIRE ALARM CONTROL PANEL AND FIRE SPRINKLER RISER ROOM.

17) A LICENSED CONTRACTOR MUST INSTALL THE FIRE ALARM AND FIRE SPRINKLER SYSTEMS AND THEY MUST MEET ALL APPLICABLE CODES AND STANDARDS INCLUDING, BUT NOT LIMITED TO NFPA 72, NFPA 13 AND 2021 IFC.

19) IF ACCESS CONTROL IS ADDED TO ANY DOOR, IT MUST MEET ALL IFC REQUIREMENTS LISTED IN CHAPTER 10, SECTION 1010. EACH DOOR MUST HAVE A KEY OVERRIDE FOR FIRE DEPARTMENT ACCESS. AN ACCESS CONTROL BADGE MUST BE PLACED IN THE KNOX BOX AND THE BADGE MUST BE UPDATED ON A REGULAR BASIS. ALSO, A COMPLETE SET OF KEYS IS ADDED TO THE KNOX BOX.

20) THE HELENA FIRE DEPARTMENT REQUIRES A FINAL AS BUILT OF THE BUILDING TO INCLUDE IN OUR RECORDS MANAGEMENT SYSTEM FOR EMERGENCY RESPONSE.

22) COMMERCIAL COOKING MUST MEET 2021 IFC, SECTION 606. THE FIRE EXTINGUISHING SYSTEM, WHEN ACTIVATED, MUST SOUND THE FIRE ALARM SYSTEM FOR OCCUPANT NOTIFICATION. THE EXHAUST FAN HINGE MUST TILT FOR CLEANING AND FIRE SUPPRESSION SO ELECTRICAL MUST NOT BE SO TIGHT, IT CANNOT BE OPENED. THE EXTINGUISHING SYSTEM FOR THE TYPE 1 HOOD MUST BE SUBMITTED FOR THIRD PARTY REVIEW.

23) CARBON DIOXIDE PER 2021 IFC, SECTION 5307. WE REQUIRE A SIGN AT THE ALERT AREA THAT SAYS: IF ALERT SYSTEM IS ACTIVATED, EVACUATE THE BUILDING, AND CALL 911 IMMEDIATELY.

24) ALL COMPONENTS OF THIS CHARGING STATION MUST BE MAINTAINED ACCORDING TO THE MANUFACTURER'S MAINTENANCE GUIDELINES.

25) IF THERE ARE OBVIOUS SIGNS OF DAMAGE, TO PREVENT POSSIBLE ELECTRIC SHOCK, THE STATION MUST BE TAKEN OUT OF SERVICE.

SHEET INDEX

SHEET ISSUED ON DATE INDICATED, WITH MODIFICATIONS ●
SHEET ISSUED ON DATE INDICATED, NO MODIFICATIONS ○

SHEET NUMBER	SHEET NAME	ISSUED FOR PERMIT	ISSUE FOR PERMIT - REV 1 2024 -07-01	ISSUE FOR PERMIT - REV 2 2025 -08-22	ISSUE FOR PERMIT - REV 3 2025 -10-20	ISSUED FOR BID 2024-10-07	ISSUED FOR CONSTRUCTION
G-000	COVER SHEET	●	○	●	●	○	
G-001	SHEET INDEX & CITY NOTES	●	●	●	●	○	
G-002	ACCESSIBILITY SHEET	●	○	●	○	○	
G-003	LIFE SAFETY PLAN	●	○	●	○	○	
G-004	RESPONSIBILITY AND NATIONAL ACCOUNTS SCHEDULE	●	○	○	○	○	
C1.0	COVER SHEET	●	●	○	○	○	
C2.0	TESC AND DEMOLITION PLAN	●	●	○	○	○	
C2.1	TESC AND DEMOLITION DETAILS	●	●	○	○	○	
C3.0	SITE PLAN	●	●	●	○	○	
C3.1	HORIZONTAL CONTROL PLAN	●	●	○	○	○	
C4.0	GRADING PLAN - WEST	●	●	○	○	○	
C4.1	GRADING PLAN - EAST	●	●	○	○	○	
C5.0	DRAINAGE PLAN	●	●	○	○	○	
C6.0	UTILITY PLAN	●	●	●	○	○	
C7.0	CFA DETAILS	●	●	○	○	○	
C7.1	CFA DETAILS	●	●	○	○	○	
C7.2	CFA DETAILS	●	●	○	○	○	
C7.3	DETAILS	●	●	○	○	○	
L1	LANDSCAPE PLAN	●	○	○	○	○	
L2	PLANT SCHEDULE	●	○	○	○	○	
L3	LANDSCAPE NOTES AND DETAILS	●	○	○	○	○	
L4	IRRIGATION PLAN	●	○	○	○	○	
L5	IRRIGATION NOTES AND DETAILS	●	○	○	○	○	
L6	IRRIGATION DETAILS	●	○	○	○	○	
L7	IRRIGATION DETAILS	●	○	○	○	○	
A-001	GENERAL NOTES AND ABBREVIATIONS	●	○	○	○	○	
A-100	SITE PLAN	●	●	●	●	○	
A-101	PATIO PLANS	●	○	○	○	○	
A-103	REFUSE ENCLOSURE	●	●	○	●	○	
A-104	ORDER POINT CANOPY	●	○	○	○	○	
A-105	OUTSIDE MEAL DELIVERY CANOPY	●	○	○	○	○	
A-201	FLOOR PLAN	●	●	●	○	○	
A-211	FLOOR FINISH PLAN	●	●	●	○	○	
A-221	REFLECTED CEILING PLAN	●	●	●	○	○	
A-230	ROOF PLAN	●	○	○	○	○	
A-301	EXTERIOR ELEVATIONS	●	●	●	○	○	
A-401	EXTERIOR PERSPECTIVES	●	○	○	●	○	
A-402	WALL SECTIONS	●	○	○	○	○	
A-501	EXTERIOR DETAILS	●	○	○	●	○	
A-502	EXTERIOR DETAILS	●	○	○	●	○	
A-503	EXTERIOR DETAILS	●	○	○	●	○	
A-504	EXTERIOR DETAILS	●	○	○	○	○	
A-505	EXTERIOR DETAILS	●	○	○	○	○	
A-601	KITCHEN ELEVATIONS AND DETAILS	●	○	○	●	○	
A-602	KITCHEN ELEVATIONS AND DETAILS	●	○	○	●	○	
A-603	KITCHEN ELEVATIONS AND DETAILS	●	○	○	●	○	
A-604	KITCHEN AND INTERIOR DETAILS	●	○	○	○	○	
A-611	RESTROOM PLAN AND ELEVATIONS	●	○	○	●	○	
A-621	DINING ELEVATIONS AND DETAILS	●	○	○	○	○	
A-622	DINING ELEVATIONS AND DETAILS	●	○	○	○	○	
A-623	DINING ELEVATIONS AND DETAILS	●	○	○	○	○	
A-624	DINING ELEVATIONS AND DETAILS	●	○	○	○	○	
A-625	DINING ELEVATIONS AND DETAILS	●	○	○	○	○	
A-631	TEAM AREA PLAN AND ELEVATIONS	●	○	○	○	○	
A-641	PLAY ROOM PLAN AND ELEVATIONS	●	○	○	○	○	
A-701	MILLWORK PLANS AND ELEVATIONS	●	○	○	●	○	
A-801	DOOR AND WINDOW LEGENDS	●	○	○	○	○	
A-901	SPECIFICATIONS	●	○	○	○	○	
A-901.2	SPECIFICATIONS	●	○	○	○	○	
A-902	SPECIFICATIONS	●	○	○	○	○	
A-903	SPECIFICATIONS	●	○	○	○	○	
A-904	SPECIFICATIONS	●	○	○	○	○	
A-905	SPECIFICATIONS	●	○	○	○	○	
A-906	SPECIFICATIONS	●	○	○	○	○	
A-907	SPECIFICATIONS	●	○	○	○	○	
A-908	SPECIFICATIONS	●	○	○	○	○	
A-909	SPECIFICATIONS	●	○	○	○	○	
A-910	SPECIFICATIONS	●	○	○	○	○	
A-911	SPECIFICATIONS	●	○	○	○	○	
S-001	STRUCTURAL NOTES	●	○	○	○	○	
S-201	FOUNDATION PLANS	●	●	●	○	○	
S-202	CANOPY FOUNDATIONS	●	○	○	○	○	
S-211	SLAB AND BRICK LEDGE LAYOUT PLAN	●	●	●	○	○	
S-231	FRAMING PLAN	●	●	●	○	○	
S-241	DROPPED CEILING PLAN	●	●	●	○	○	
S-251	STRUCTURAL ELEVATIONS	●	●	●	○	○	
S-300	TYPICAL CONCRETE DETAILS	●	○	○	○	○	
S-301	FOUNDATION DETAILS	●	●	●	○	○	
S-301A	FOUNDATION DETAILS - STEM	●	○	○	○	○	
S-302	FOUNDATION DETAILS - SILL TEMPLATE	●	○	○	○	○	
S-500	TYPICAL STEEL FRAMING DETAILS	●	○	○	○	○	
S-501	STEEL FRAMING DETAILS	●	○	○	○	○	
S-600	TYPICAL WOOD FRAMING DETAILS	●	○	○	○	○	
S-601	TYPICAL WOOD FRAMING DETAILS	●	○	○	○	○	
S-602	WOOD FRAMING DETAILS	●	●	●	○	○	
S-610	ROOF FRAMING DETAILS	●	○	○	○	○	
S-800	TYPICAL NONSTRUCTURAL DETAILS	●	○	○	○	○	
S-801	TYPICAL NONSTRUCTURAL DETAILS	●	○	○	○	○	
S-850	REFUSE ENCLOSURE PLANS & DETAILS	●	●	●	○	○	
S-851	REFUSE ENCLOSURE DETAILS	●	○	○	○	○	
S-901	STRUCTURAL SPECIFICATIONS	●	○	○	○	○	
S-902	STRUCTURAL SPECIFICATIONS	●	○	○	○	○	
M-001	GENERAL NOTES, LEGENDS, SYMBOLS, AND ABBREVIATIONS	●	○	○	○	○	
M-101	EQUIPMENT AND DUCTWORK PLAN - A - LENNOX	●	●	●	○	○	
M-102	EQUIPMENT AND DUCTWORK PLAN - B -LENNOX	●	●	●	○	○	
M-103	EQUIPMENT ROOF PLAN -LENNOX	●	●	●	○	○	
M-201	EXHAUST HOOD ELEVATIONS	●	○	○	○	○	
M-401	MECHANICAL COMPLIANCE I	●	○	○	○	○	
M-402	MECHANICAL COMPLIANCE II	●	○	○	○	○	
M-501	DETAILS	●	○	○	○	○	
M-502	DETAILS	●	○	○	○	○	
M-503	DETAILS	●	○	○	○	○	
M-601	HVAC EQUIPMENT SCHEDULES -LENNOX	●	●	●	○	○	
M-701	CONTROL WIRING DIAGRAMS	●	○	○	○	○	
M-702	CONTROL WIRING DIAGRAMS NOTES	●	○	○	○	○	
M-801	HALTON HOOD SHOP DRAWING I	●	○	○	○	○	
M-802	HALTON HOOD SHOP DRAWING II	●	○	○	○	○	
M-803	HALTON FANS SHOP DRAWING I	●	○	○	○	○	
M-804	HALTON FANS SHOP DRAWING II	●	○	○	○	○	
M-805	FIRE WRAP DETAIL	●	○	○	○	○	
M-901	GAS AND CONDENSATE ISOMETRIC -LENNOX	●	●	●	○	○	
CO1.01	CO2 LAYOUT	●	●	●	○	○	
F1.00	FIRE ALARM LAYOUT	●	●	●	○	○	
P-001	PLUMBING SPECIFICATIONS, GENERAL NOTES & LEGENDS	●	○	○	○	○	
P-101	DRAIN WASTE AND VENT PLAN	●	○	●	○	○	
P-102	UNDERGROUND ROUGH-IN PLAN	●	○	●	○	○	
P-103	WATER DISTRIBUTION PLAN	●	○	●	○	○	
P-104	BEVERAGE CONDUIT AND OIL PIPING PLAN	●	○	●	○	○	
P-105	PLUMBING REFUSE ENCLOSURE PLAN	●	○	○	○	○	
P-501	PLUMBING DETAILS	●	○	○	○	○	
P-502	PLUMBING DETAILS	●	○	●	○	○	
P-601	PLUMBING SCHEDULES	●	○	●	○	○	
P-901	DRAIN, WASTE AND VENT ISOMETRIC	●	○	●	○	○	
P-902	WATER DISTRIBUTION ISOMETRIC	●	○	●	○	○	

SHEET INDEX

SHEET ISSUED ON DATE INDICATED, WITH MODIFICATIONS ●
SHEET ISSUED ON DATE INDICATED, NO MODIFICATIONS ○

SHEET NUMBER	SHEET NAME	ISSUED FOR PERMIT	ISSUE FOR PERMIT - REV 1 2024 -07-01	ISSUE FOR PERMIT - REV 2 2025 -08-22	ISSUE FOR PERMIT - REV 3 2025 -10-20	ISSUED FOR BID 2024-10-07	ISSUED FOR CONSTRUCTION
E-001P	GENERAL NOTES, LEGENDS, AND SPECIFICATIONS	●	○	○	○	○	
E-002P	ELECTRICAL SPECIFICATIONS	●	○	○	○	○	
E-101P	SITE LIGHTING AND POWER PLAN	●	○	●	○	○	
E-102P	SITE PHOTOMETRIC PLAN	●	○	●	○	○	
E-103	LIGHTING PLAN	●	○	●	○	○	
E-104	POWER AND SYSTEM PLAN	●	○	●	○	○	
E-105	ROOF POWER PLAN	●	○	○	○	○	
E-201	ELECTRICAL COMPLIANCE FORMS	●	○	●	○	○	
E-401P	ENLARGED SERVING AND BOH POWER PLAN	●	○	●	○	○	
E-402P	ENLARGED KITCHEN POWER PLAN	●	○	○	○	○	
E-403P	ORDER CANOPY PLAN AND REFUSE ENCLOSURE	●	○	●	○	○	
E-501P	DETAILS	●	○	○	○	○	
E-502P	SITE DETAILS	●	○	○	○	○	
E-601P	EQUIPMENT SCHEDULE	●	○	○	○	○	
E-602P	PANEL SCHEDULES	●	○	●	○	○	
E-603P	PANEL SCHEDULES	●	○	●	○	○	
E-701P	SINGLE LINE DIAGRAM	●	○	●	○	○	
E-702P	WIRING DIAGRAMS	●	○	○	○	○	
E-703P	WIRING DIAGRAMS	●	○	○	○	○	
E-800P	LOW VOLTAGE GUIDANCE PLAN	●	○	●	○	○	
Q42426-25	WALK-IN REFRIGERATION	●	○	●	○	○	
K-001	GENERAL NOTES	●	○	○	○	○	
K-201	OVERALL EQUIPMENT FLOOR PLAN	●	○	●	○	○	
K-211	ENLARGED EQUIPMENT FLOOR PLAN	●	○	●	○	○	
K-212	ENLARGED EQUIPMENT FLOOR PLAN	●	○	●	○	○	
K-601	ELECTRICAL ROUGH-IN ELEVATIONS	●	○	●	○	○	
K-602	ELECTRICAL ROUGH-IN ELEVATIONS	●	○	●	○	○	
K-603	ELECTRICAL ROUGH-IN ELEVATIONS	●	○	●	○	○	
K-604	ELECTRICAL ROUGH-IN ELEVATIONS	●	○	●	○	○	
K-611	PLUMBING ROUGH-IN ELEVATIONS	●	○	●	○	○	
K-801	EQUIPMENT SCHEDULE	●	○	●	○	○	
K-802	EQUIPMENT SCHEDULE	●	○	●	○	○	
K-901	KITCHEN DETAILS	●	○	○	○	○	
K-902	KITCHEN DETAILS	●	○	○	○	○	
K-903	KITCHEN DETAILS	●	○	○	○	○	
F-201	FURNITURE FLOOR PLAN	●	○	●	○	○	
F-202	TABLE NUMBER PLACEMENT PLAN	●	○	●	○	○	
F-211	FURNITURE CORE DRILL PLAN	●	○	●	○	○	
F-701	DECOR ELEVATIONS	●	○	●	○	○	
F-702	FURNITURE PRODUCT DETAILS	●	○	●	○	○	
F2FC-1	CANOPY FOOTING LOCATIONS	●	○	○	○	○	
F2FC-2	CANOPY FOOTINGS	●	○	○	○	○	
F2FC-3	CANOPY FRAMING PLAN	●	○	○	○	○	
F2FC-4	CANOPY SECTIONS	●	○	○	○	○	
F2FC-5	CANOPY SECTIONS	●	○	○	○	○	
F2FC-6	CANOPY SECTIONS	●	○	○	○	○	
F2FC-7	CANOPY ELEVATION PLAN	●	○	○	○	○	
F2FC-8	CANOPY LIGHT LAYOUT	●	○	○	○	○	
OMD-1	CANOPY FOOTING LOCATIONS	●	○	○	○	○	
OMD-2	CANOPY FOOTINGS	●	○	○	○	○	
OMD-3	CANOPY FRAMING PLAN	●	○	○	○	○	
OMD-4	CANOPY SECTIONS	●	○	○	○	○	
OMD-5	CANOPY SECTIONS	●	○	○	○	○	
OMD-6	CANOPY SECTIONS	●	○	○	○	○	
OMD-7	CANOPY ELEVATION PLAN	●	○	○	○	○	
OMD-8	CANOPY LIGHT LAYOUT	●	○	○	○	○	

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KEVIN T. EVERNHAM 3199 SCOTTSDALE, AZ — REGISTERED ARCHITECT — STATE OF MONTANA
11/12/2025

CHICK-FIL-A
CUSTER & WASHINGTON

2770 N WASHINGTON STREET
HELENA, MONTANA 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
PRINTED FOR:

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REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	2024-07-11	PLAN CHECK - REV 1
2	2025-08-22	PLAN CHECK - REV 2
4	2025-10-20	PLAN CHECK - REV 4

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CONSULTANT PROJECT # LAX22-0129-01
DATE 10/20/2025
DRAWN BY M.M.O./ K.G.

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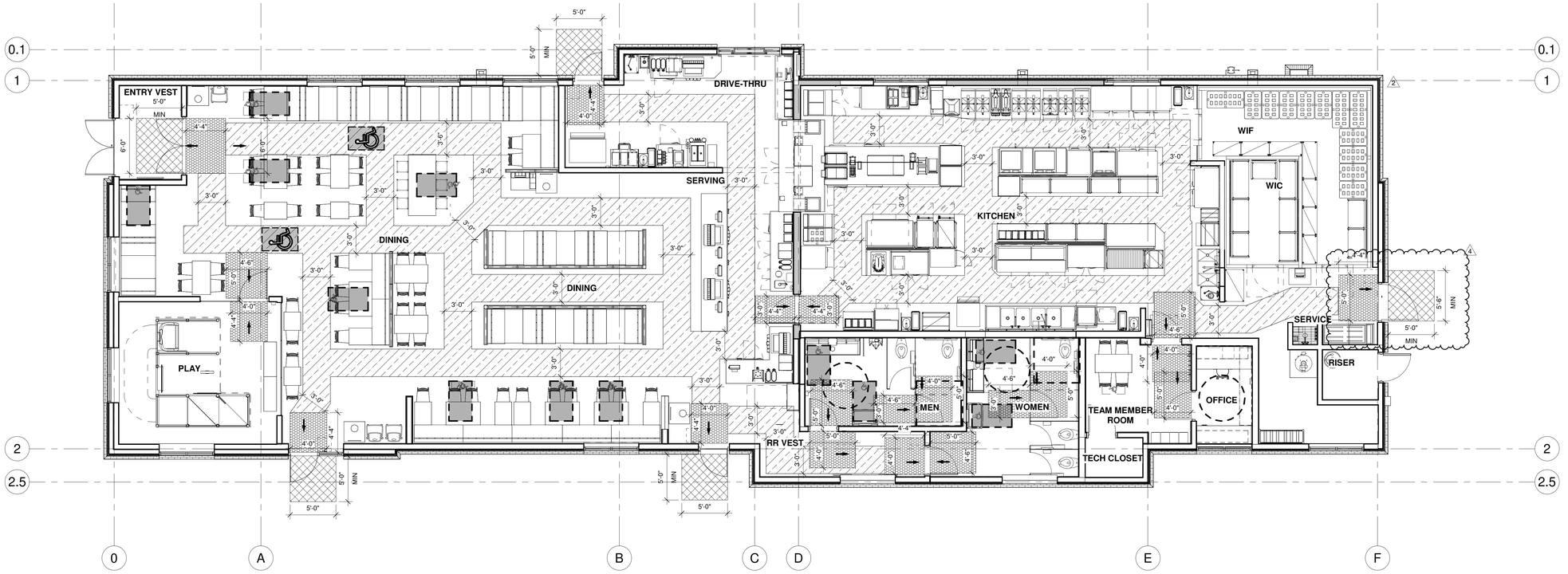
SHEET
SHEET INDEX & CITY NOTES

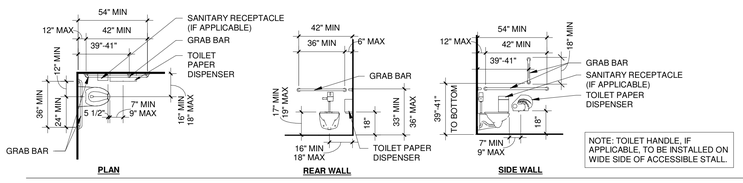
SHEET NUMBER
G-001



B1 ACCESSIBILITY PLAN
3/16" = 1'-0"

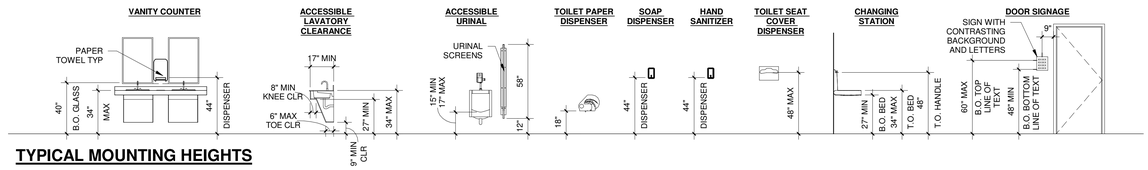
ACCESSIBILITY REQUIREMENTS

NOTE: ALL DIMENSION SHOWN HERE ARE FROM FINISH FACE OF WALLS AND FLOORS.



NOTE: TOILET HANDLE, IF APPLICABLE, TO BE INSTALLED ON WIDE SIDE OF ACCESSIBLE STALL.

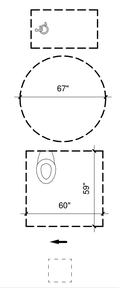
TYPICAL ACCESSIBLE WATER CLOSET



TYPICAL MOUNTING HEIGHTS

ACCESSIBILITY LEGEND

- MANEUVERING CLEARANCE AT DOORS
- CLEAR AND LEVEL SPACE AT DOORS (EXTERIOR) 2% SLOPE OR LESS SLOPE /CROSS SLOPE.
- 36" MIN. CLEAR ACCESSIBLE ROUTE
- 44" REQUIRED EGRESS PATH
- 30" X 52" WHEEL CHAIR SPACE
- 67" TURNING RADIUS
- 60" X 59" CLEARANCE AT FLOOR-MOUNT WATER CLOSET
- DOOR APPROACH
- 18" X 18" DOOR SIGNAGE CLEAR SPACE



ACCESSIBILITY NOTES

1. ALL CROSS SLOPES THAT ARE A PORTION OF THE ACCESSIBLE ROUTE SHALL BE A MAXIMUM OF 2%.
2. IF UMBRELLAS OR AWNINGS ARE USED ON THE SITE, THE BOTTOM FLAPS SHALL BE A MINIMUM OF 6'-8" ABOVE THE FINISHED GRADE.
3. ACCESSIBLE TABLES SHALL BE A MINIMUM OF 27" CLEAR KNEE SPACE A.F.F. AND HAVE A CLEAR AREA OF AT LEAST 19" DEEP. TOP OF TABLE SHALL BE 34" A.F.F.
4. COAT HOOKS IN THE TOILET STALLS SHALL BE MOUNTED TO THE BACKSIDES OF DOORS AT 48" A.F.F. IN ACCESSIBLE STALLS AND 60" IN STANDARD STALLS.
5. FLUSH VALVES ON THE TOILETS SHALL ALWAYS BE LOCATED ON THE WIDE SIDE OF THE TOILET STALL. UTILIZE 5 LBS. OF FORCE OR LESS TO OPERATE.
6. ALL PANIC HARDWARE SHALL BE MOUNTED NO HIGHER THAN 46" A.F.F.
7. FLOOR DRAINS LOCATED ALONG ACCESSIBLE ROUTES IN KITCHEN SHALL BE SLOPED NO GREATER THAN 2 %.
8. ALL THRESHOLDS, FLOOR LEVEL CHANGES, AND FLOOR TRANSITIONS SHALL NOT EXCEED 1/2" IN HEIGHT AND SHALL BE BEVELED WITH A SLOPE NO GREATER THE 1:2.
9. ALL LIGHT SWITCHES, VOLUME CONTROLS, AND THERMOSTATS IN PUBLIC AREAS SHALL BE MOUNTED NO HIGHER THAN 48" A.F.F. U.N.O.
10. FOR CLARIFICATION OF REQUIREMENTS OR QUESTIONS, CALL THE ARCHITECT OF RECORD.

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STATE OF MONTANA
11/12/2025

CHICK-FIL-A
CUSTER & WASHINGTON

2770 N WASHINGTON STREET
HELENA, MONTANA 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
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NO.	DATE	DESCRIPTION
2	2025-08-22	PLAN CHECK - REV 2
4	2025-10-20	PLAN CHECK - REV 4

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CONSULTANT PROJECT # LAX22-0129-01
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SHEET
ACCESSIBILITY SHEET

SHEET NUMBER
G-002

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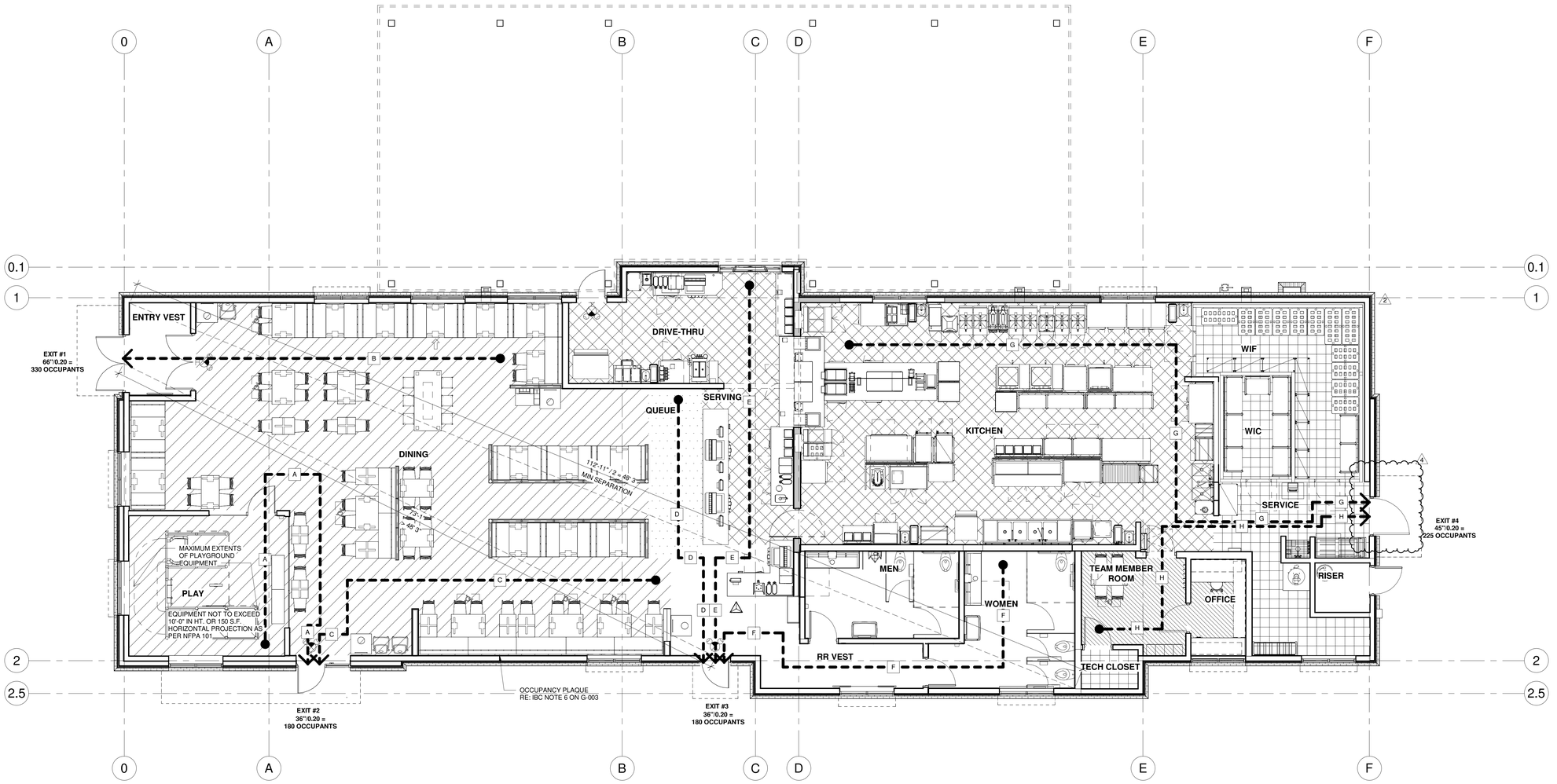

FUNCTION OF SPACE

- ASSEMBLY - STANDING
- ASSEMBLY - UNCONCENTRATED
- BUSINESS
- KITCHEN
- STORAGE

B1 LIFE SAFETY PLAN
3/16" = 1'-0"

FIRE CODE NOTES

1. PROVIDE SPRINKLER SYSTEM WHEN REQUIRED BY LOCAL JURISDICTION AND LOCATE RISER AS INDICATED IN ARCH/PLUMB PLANS.
2. PROVIDE HOOD SUPPRESSION SYSTEM AS SHOWN ON MECHANICAL DRAWINGS.
3. PROVIDE FIRE ALARM SYSTEM AS REQUIRED BY CODE OR JURISDICTION.
4. PROVIDE GLASS TYPES AS SHOWN ON ELEVATIONS, DOOR/WINDOW LEGENDS, AND GLAZING SCHEDULE.
5. PROVIDE #10 ABC GENERAL PURPOSE FIRE EXTINGUISHERS THROUGHOUT BUILDING. QUANTITIES AND LOCATIONS PER LOCAL JURISDICTION.
6. PROVIDE CLASS K FIRE EXTINGUISHERS IN KITCHEN AREAS AS REQUIRED BY CODE.

FIRE SPRINKLER

1. PROVIDE A SUPERVISED AUTOMATIC FIRE SPRINKLER SYSTEM WHEN REQUIRED BY INTERNATIONAL BUILDING CODE AND OR LOCAL BUILDING CODE. FIRE SPRINKLER DRAWINGS SHALL BE PREPARED BY FIRE SPRINKLER SUBCONTRACTOR.

BUILDING CODE NOTES

1. PROVIDE FIREBLOCKING WITHIN CONCEALED SPACES PER LOCAL REQUIREMENTS.
2. PROVIDE DRAFTSTOPPING IN ATTIC AS SHOWN ON REFLECTED CEILING PLAN.
3. PROVIDE THERMAL AND SOUND INSULATION WITH FIRE CLASSIFICATIONS AS INDICATED IN SPECS.
4. PROVIDE ROOFING MATERIALS WITH FIRE CLASSIFICATIONS AS INDICATED IN SPECS.
5. PROVIDE CEILING FINISHES WITH FIRE CLASSIFICATIONS AS INDICATED IN SPECS.
6. OCCUPANT LOAD SIGN BY G.C.; PROVIDE 2"X8" BLACK SIGN WITH 1/2" WHITE HELVETICA LETTERS STATING MAXIMUM OCCUPANT LOAD AS INDICATED IN ARCH DRAWINGS.
7. CHICK-FIL-A IS REQUIRING SPECIAL INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.

PLUMBING FIXTURE COUNTS

TOTAL BUILDING OCCUPANT LOAD:	179
LOAD DISTRIBUTION:	50% MALE AND 50% FEMALE
DISTRIBUTION COUNT:	89 MALE AND 90 FEMALE
LAVATORIES PROVIDED REQUIRED (PER CHAPTER 4 IPC AND CHAPTER 29 IBC):	
MALE LAVATORIES:	89 / 200 = 1
FEMALE LAVATORIES:	90 / 200 = 1
LAVATORIES PROVIDED:	
MALE LAVATORIES:	2
FEMALE LAVATORIES:	2
WATER CLOSETS REQUIRED (PER CHAPTER 4 IBC AND CHAPTER 29 IBC):	
MALE WATER CLOSETS:	89 / 75 = 2
FEMALE WATER CLOSETS:	90 / 75 = 2
WATER CLOSETS PROVIDED:	
MALE WATER CLOSETS:	1 WATER CLOSETS 1 URINALS
FEMALE WATER CLOSETS:	2 WATER CLOSETS

EGRESS

1. REQUIRED WIDTH OF EGRESS

179 x 0.2 = **36"** REQUIRED

2. WIDTH OF EGRESS PROVIDED

EXIT #1 = 66"
EXIT #2 = 36"
EXIT #3 = 36"
EXIT #4 = 45" (STAFF ONLY)

TOTAL: 177" TOTAL

EGRESS PATH PLAY

EGRESS PATH	EGRESS DISTANCE
A	54'
B	42'
C	46'
D	32'
E	46'
F	42'
G	62'
H	24'

MAX DISTANCE OF TRAVEL (IBC): 200'-0" (250'-0" SPRINKLERED)

CODE SUMMARY

1. OCCUPANCY **A2**
2. CONSTRUCTION TYPE **VB**
3. SPRINKLERED **YES**
4. ALLOWABLE AREA **24,000 SF**
   ACTUAL AREA **5,613 SF**
5. ALLOWABLE HEIGHT **75'-0"**
   ACTUAL HEIGHT **20'-4 1/2"**

OCCUPANT LOAD (LS BP)

Name	Area	Load Factor	Occupants
ASSEMBLY - STANDING	112 SF	5 SF	23
ASSEMBLY - UNCONCENTRATED	2091 SF	15 SF	141
BUSINESS	191 SF	150 SF	2
KITCHEN	1650 SF	200 SF	9
STORAGE	565 SF	300 SF	4
TOTALS	4610 SF		179

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CONSULTANT PROJECT # LAX22-0129-01
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SHEET
LIFE SAFETY PLAN

SHEET NUMBER
G-003

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00-LS-05484-G-003-LIFE SAFETY PLAN

NATIONAL ACCOUNTS

PRODUCT	CSI DIVISION	VENDOR	CONTACT	PHONE	EMAIL	U.S. REGIONS
EV CHARGING STATION	C01-000	CHARGEPOINT	WHITNEY SCHMIDT	508- 317-2475	CFA@CHARGEPOINT.COM	AS CONTRACTED, REFER TO SUPPLIER MAP
EV CHARGING STATION	C01-000	EV CONNECT (SCHNEIDER ELECTRIC)	ANDREW DRASKOVICS	908-200-5366	CFA@EVCONNECT.COM; ADRASKOVICS@EVCONNECT.COM	AS CONTRACTED, REFER TO SUPPLIER MAP
DRIVE-THRU ORDER POINT / CLEARANCE BAR	C02-700	CHANDLER SIGNS	KRISTEN HAMILTON	210-349-3804	CFA@CHANDLERSIGNS.COM	SW, W
DRIVE-THRU ORDER POINT / CLEARANCE BAR	C02-700	PATTISON SIGN	HELENE HAMMOND, ROGER GHANTOUS	613-247-5379, 613-247-5371	HHAMMOND@PATTISONID.COM, RGHANTOUS@PATTISONID.COM	ALL U.S. REGIONS
DRIVE-THRU ORDER POINT / CLEARANCE BAR	C02-700	UNI-STRUCTURES, INC.	CAROLYN WARD	678-974-1759	C.WARD@UNISTRUCTURES.COM	NE, SE, ATL, MW
FLAG POLES	C02-895	THE FLAG COMPANY, INC.	ORDERED VIA SIGN COMPANY	770-974-0507	BMOSES@FLAGCO.COM	ALL U.S. REGIONS
BRICK	C04-810	ACME BRICK	DENEISE KIMBROUGH	866-430-2263	DKIMBROUGH@BRICK.COM	NOT BY US REGIONS, REFER TO SUPPLIER MAP
BRICK	C04-810	CHEROKEE BRICK	PAYNE CLUBB	478-447-0822	PAYNE.CLUBB@CHEROKEEBRICK.COM	NOT BY US REGIONS, REFER TO SUPPLIER MAP
BRICK	C04-810	GLEN-GERY	ALYIZE PIEDRA	412-426-9200, EXT. 7438	PITTSBURGHSALESORDERS@GLENGERY.COM	NOT BY US REGIONS, REFER TO SUPPLIER MAP
BRICK	C04-810	MUTUAL MATERIALS	ANDY MACFARLANE, RYAN MOLLER	425-452-2361, 425-766-6712	CFA@MUTUALMATERIALS.COM	NOT BY US REGIONS, REFER TO SUPPLIER MAP
WOOD TRUSSES	C06-110	REDBUILT, LLC	ADAM STRITENBERGER FOR TRUSSES ONLY, JAKE SHEPHERD FOR TRUSSES AND WALL PANELS	ADAM: 740-368-4227 AND JAKE: 877-371-0445	ADAM: ASTRITENBERGER@REDBUILT.COM, JAKE: JSHEPHERD@REDBUILT.COM	ALL U.S. REGIONS
INTERIOR WOOD (WALL DECOR)	C06-200	SKYLAR MORGAN FURNITURE + DESIGN	CATHERINE JOHNSON	404-565-0537 OPTION 3	CFAORDERS@SKYLARMORGANFURNITURE.COM	ALL U.S. REGIONS
INTERIOR WOOD (WAINSCOTING & SILLS)	C06-220	CFX PRODUCTS	ELEZA MCELVEEN	(404) 363-1665	CHICKFILA@CFXPRODUCTS.COM	NE, SE, ATL
INTERIOR WOOD (WAINSCOTING & SILLS)	C06-220	FCC COMMERCIAL FURNITURE	MICHELLE GANSKO	(800)322-7328 EXT 235	MICHELLE.GANSKO@FCCFURN.COM	W, SW, MW
MILLWORK	C06-220	CFX PRODUCTS	SANDRA RENKOW, ERIC CRANE (NON-TRADITIONAL)	404-684-8784, 404-460-8043 (NON-TRADITIONAL)	CHICKFILA@CFXPRODUCTS.COM	SE, MW, NE, ATL
MILLWORK	C06-220	FCC COMMERCIAL FURNITURE	CFA SUPPORT STAFF	(800) 322-7328 X 235	CFASUPPORT@FCCFURN.COM	W, SW
METAL ROOF EQUIPMENT STANDS	C07-530	AVCOA	STEVE GILINSON	954-584-6001	STEVE@AVCOAUSA.COM	ALL U.S. REGIONS
ROOFING	C07-540	DURO-LAST	CHRISTY SHORKEY, JASON DARK	(800) 248-0280	CFABIDREQUEST@DURO-LAST.COM; CSHORKEY@DURO-LAST.COM; JDARK@DURO-LAST.COM	ALL U.S. REGIONS
DOORS - BACK OF RESTAURANT	C08-255	ZIGMAN SALES/SPECIAL-LITE	ZIGMAN SALES LLC.	(888) 584-1303 (678)-974-3127	ZIGMANPRODUCTS@YAHOO.COM	ALL U.S. REGIONS
STOREFRONT SYSTEM	C08-411	KAWNEER	CHERYL WILKERSON	317-771-9263	CHERYL.WILKERSON@ARCONIC.COM	AS CONTRACTED
STOREFRONT SYSTEM	C08-411	YKK AP	CONTACT LOCAL BRANCH	800-955-9551	CFA@YKKAP.COM	AS CONTRACTED
DOORS - DRIVE-THRU	C08-460	ASSA ABLOY	ROSS MERKLING	(704) 221-2068	CFA@ASSAABLOY.COM	MW, NE, ATL
DOORS - DRIVE-THRU	C08-460	TORMAX	TORMAX CFA TEAM	210-447-1136; 210-494-3551 (NON-TRADITIONAL)	NATIONALACCOUNTS@TORMAXUSA.COM	W, SW, SE
DRIVE-THRU WINDOW UNIT	C08-500	QUIKSERV CORP.	BRIAN COBLE - SERVICE & WARRANTY, BRIAN MCCLOSKEY (NON-TRADITIONAL)	713-849-5882	BMCCLOSKEY@QUIKSERV.COM, BKCOBLE@QUIKSERV.COM (NON-TRADITIONAL)	ALL U.S. REGIONS
DOORS - HM & P-LAM	C08-710	DH PACE	TRISH ROBERTS	417.831.5585	CHICKFILADOORS@DHPACE.COM	ATL, NE, MW
DOORS - HM & P-LAM	C08-710	LOCKNET	LOCKNET CFA ACCOUNT TEAM	859-354-4323	CFA@LOCKNET.COM	SE, SW, W
DOORS - KITCHEN	C08-710	ELIASON	ANN SPRANDEL	(513) 967-3381	ASPRANDEL@SENNECA.COM	ALL U.S. REGIONS
TILE AND GROUT	C09-310	CREATIVE MATERIALS CORP	SHANNON MCCARTY	1-800-207-2967 X CHIK (2445)	CHICKTILE@CREATIVEMATERIALSCORP.COM	ATL, NE, MW
TILE AND GROUT	C09-310	DALTILE	KELLY GARCIA	877-556-5728	CHICK-FIL-A@DALTILE.COM	SE, W, SW
PLAYGROUND FLOORING	C09-330	PROJECT INNOVATIONS, INC.	PETER GRIFFIN	855-650-6818	PETE@MYUSAPROJECTS.COM	NOT BY US REGIONS, REFER TO SUPPLIER MAP
PLAYGROUND FLOORING	C09-330	THE PLAYGROUND GUYS	ROBERT PARENT	772-215-8856	THEPGGUYS@AOL.COM	NOT BY US REGIONS, REFER TO SUPPLIER MAP
CEILING TILE	C09-510	CERTAINTEED	PATRICK SZUBA	248-705-8261	PATRICK.J.SZUBA@SAINT-GOBAIN.COM	ALL U.S. REGIONS
CEILING TILE	C09-510	USG	TRAVIS TOMANEK	440.541.3972	TTOMANEK@USG.COM	ALL U.S. REGIONS
FRP PANELS	C09-770	MARLITE	ANITA CRAIG	330-260-7621	ACRAIG@MARLITE.COM	ALL U.S. REGIONS
CORNER GUARDS	C10-265	KOROSEAL	NATIONAL ACCOUNTS DESK	(866) 628-2280 EXT 1	NA@KOROSEAL.COM	ALL U.S. REGIONS
BABY CHANGING STATIONS	C10-280	RUBBERMAID	TRIMARK STRATEGIC	229-903-3697	AMANDA.MATTHEWS@TRIMARKUSA.COM	ALL U.S. REGIONS
SIGNAGE	C10-420	ANCHOR SIGN	MEGAN JACKSON	843-576-3289	CFA@ANCHORSIGN.COM	NE (NEW ENGLAND STATES ONLY)
SIGNAGE	C10-420	CHANDLER SIGNS	KRISTEN HAMILTON	210-349-3804	CFA@CHANDLERSIGNS.COM	SW AND AS CONTRACTED IN MW
SIGNAGE	C10-420	CLAYTON SIGNS	TAMMY TURNER	404-361-3800 X423	TAMMYTURNER@CLAYTONSIGNS.COM	SE, ATL, NE (NON NEW ENGLAND STATES) AND AS CONTRACTED IN MW
SIGNAGE	C10-420	NATIONAL SIGN & MARKETING CORPORATION	RACHEL ESPINOSA, RHONDA ROBINSON, DJ KELHI OR STEVE ROSENBLOOM	909-591-4742 OR 909-322-5479	CFATEAM@NSMC.COM, RESPINOSA@NSMC.COM, RROBINSON@NSMC.COM, DKELHI@NSMC.COM STEVER@NSMC.COM	W
BUILDING AWNINGS & CANOPIES	C10-440	AWNEX	MARK WILLIAMS – INSTALLATION MANAGER IRENE WILKINS – CFA PROJECT MANAGER CARRIE FOWLER – ESTIMATOR MOLLY DARWIN – SALES ADMIN	770-704-7140 EXT. 113	CFA@AWNEXINC.COM	NE, MW
BUILDING AWNINGS & CANOPIES	C10-440	CHANDLER SIGNS	KRISTEN HAMILTON	210-349-3804	CFA@CHANDLERSIGNS.COM	SW
BUILDING AWNINGS & CANOPIES	C10-440	NATIONAL SIGN & MARKETING CORPORATION	RHONDA ROBINSON	909-591-4742	CFATEAM@NSMC.COM	W
BUILDING AWNINGS & CANOPIES	C10-440	UNI-STRUCTURES, INC.	CAROLYN WARD	678-974-1759	C.WARD@UNISTRUCTURES.COM	SE, ATL
CANOPY FANS & HEATERS	C10-440	TOM BARROW COMPANY	CFA TEAM	(404) 351-1010	CFATEAM@TOMBARROW.COM	W, MW, NE, ATL, SE
DRIVE-THRU ORDER AREA CANOPY (METAL)	C10-440	FASHION, INC.	CADE BELL	785-242.8111	CADE@FASHIONINC.COM	NE, ATL, SE
DRIVE-THRU ORDER AREA CANOPY (METAL)	C10-440	LANE SUPPLY INC	LARRY TOLBERT	704.573.0977	LTOLBERT@LANESUPPLYINC.COM	SW, W, MW
EXTERIOR DIGITAL MENU BOARD ENCLOSURE	C10-440	PATTISON SIGN	HELENE HAMMOND, ROGER GHANTOUS	613-247-5379, 613-247-5371	HHAMMOND@PATTISONID.COM, RGHANTOUS@PATTISONID.COM	ALL U.S. REGIONS
TOWEL / TISSUE DISPENSERS	C10-800	SAN JAMAR	TRIMARK STRATEGIC	229-903-3697	AMANDA.MATTHEWS@TRIMARKUSA.COM	ALL U.S. REGIONS
RESTROOM PARTITIONS	C10-810	CFX PRODUCTS	ELEZA MCELVEEN, STEVE SAMUELSON (NON-TRADITIONAL)	404-684-8782, 404-684-8783 (NON-TRADITIONAL)	CHICKFILA@CFXPRODUCTS.COM	AS CONTRACTED
RESTROOM PARTITIONS	C10-810	DH PACE	JOE KELLY	417-831-5585	CHICKFILADOORS@DHPACE.COM	ATL, NW, MW
RESTROOM PARTITIONS	C10-810	FCC COMMERCIAL FURNITURE	MICHELLE GANSKO	800-322-7328 X 235	MICHELLE.GANSKO@FCCFURN.COM	AS CONTRACTED
RESTROOM PARTITIONS	C10-810	LOCKNET	LOCKNET CFA ACCOUNT TEAM	859-354-4323	CFA@LOCKNET.COM	AS CONTRACTED
PLAYGROUND EQUIPMENT	C10-900	SOFT PLAY, LLC	BILL NEWTON	704-948-3456	BILLN@SOFTPLAY.COM	ALL U.S. REGIONS
CHANGE SAFE - FRONT COUNTER	C11-020	AMERICAN SECURITY PRODUCTS CO. (AMSEC)	TRIMARK STRATEGIC	229-903-3697	AMANDA.MATTHEWS@TRIMARKUSA.COM	ALL U.S. REGIONS
SECURITY	C11-020	ADVANCED PROJECT SOLUTIONS LLP	BRIGITTE MCNEAL	608-222-1111 X 7243	CHICKFILA@ADVANCEDPROSOLUTIONS.COM	MW
STAINLESS STEEL TABLES	C11-400	ATLANTA CUSTOM FABRICATORS	TRIMARK STRATEGIC	229-903-3697	AMANDA.MATTHEWS@TRIMARKUSA.COM	ATL, NE, SE
STAINLESS STEEL TABLES	C11-400	EAGLE	TRIMARK STRATEGIC	229-903-3697	AMANDA.MATTHEWS@TRIMARKUSA.COM	ALL U.S. REGIONS
SHELVING	C11-410	INTERMETRO	TRIMARK STRATEGIC	229-903-3697	AMANDA.MATTHEWS@TRIMARKUSA.COM	ALL U.S. REGIONS
CO2 TANKS	C11-430	CHART	TRIMARK STRATEGIC	229-903-3697	AMANDA.MATTHEWS@TRIMARKUSA.COM	ALL U.S. REGIONS
BIOZONE DEVICE	C11-435	BIOZONE	TRIMARK STRATEGIC	229-903-3697	AMANDA.MATTHEWS@TRIMARKUSA.COM	ALL U.S. REGIONS
WALK-IN COOLERS / FREEZERS	C11-435	HEATCRAFT	TRIMARK STRATEGIC	229-903-3697	AMANDA.MATTHEWS@TRIMARKUSA.COM	ATL, NE, SE, SW, W
WALK-IN COOLERS / FREEZERS	C11-435	NORLAKE	TRIMARK STRATEGIC	229-903-3697	AMANDA.MATTHEWS@TRIMARKUSA.COM	MW
WALK-IN COOLERS / FREEZERS	C11-435	THERMOKOOL	TRIMARK STRATEGIC	229-903-3697	AMANDA.MATTHEWS@TRIMARKUSA.COM	ATL, NE, SE, SW, W
DINING ROOM COMPACTORS	C11-440	COMPACTION TECHNOLOGIES	JOSHUA JOHNSON	612-230-2216	JJOHNSON@COMPACTIONTECHNOLOGIES.COM	OPERATOR CHOICE
DINING ROOM COMPACTORS	C11-440	HARMONY	NICK ROBERTS	951-221-8627	NROBERTS@HARMONY1.COM	OPERATOR CHOICE
DINING ROOM COMPACTORS	C11-440	ORWAK	STUART HERMAN	804-551-1108	STUART.HERMAN@ORWAKBALERS.COM	OPERATOR CHOICE
DISHWASHERS	C11-440	CHAMPION	TRIMARK STRATEGIC	229-903-3697	AMANDA.MATTHEWS@TRIMARKUSA.COM	W
DISHWASHERS	C11-440	HOBART	TRIMARK STRATEGIC	229-903-3697	AMANDA.MATTHEWS@TRIMARKUSA.COM	MW, NE, ATL, SE, SW
KITCHEN COMPACTORS & BALERS	C11-440	MIL-TEK	DAN PERTI	703-584-4316	SUPPLIES@MILTEKUSA.COM	OPERATOR CHOICE
KITCHEN COMPACTORS & BALERS	C11-440	ORWAK	STUART HERMAN	804-551-1108	STUART.HERMAN@ORWAKBALERS.COM	OPERATOR CHOICE
INDOOR FURNITURE & DÉCOR	C12-500	A BETTER WAY MINISTRIES	ORDERED VIA CHI OR FCC PACKAGE	470-506-4452	COREYROGERSABW@GMAIL.COM	ALL U.S. REGIONS
INDOOR FURNITURE & DÉCOR	C12-500	CHARTER HOUSE INNOVATIONS	DEDICATED CFA TEAM	616-796-1020	CFA@CHARTER-HOUSE.COM	SE, MW, NE, ATL
INDOOR FURNITURE & DÉCOR	C12-500	FCC COMMERCIAL FURNITURE	MICHELLE GANSKO	800-322-7328 X 235	MICHELLE.GANSKO@FCCFURN.COM	W, SW
INDOOR FURNITURE & DÉCOR	C12-500	OSI	ORDERED VIA CHI OR FCC PACKAGE	859-653-3891	MSUCHER@YOURONESOURCE.COM	ALL U.S. REGIONS
INDOOR FURNITURE & DÉCOR	C12-500	PORTICO	ORDERED VIA CHI OR FCC PACKAGE	0	0	ALL U.S. REGIONS
ROLLER SHADES	C12-500	BUDGET BLINDS COMMERCIAL	ANGELA CARSWELL	949-404-1140	ANGELA.CARSWELL@GOHFC.COM	AS CONTRACTED
ROLLER SHADES	C12-500	CWC GROUP	RICHARD PELL	704-201-7379	RPELL@COMMERCIALWINDOWCOVERING.COM	AS CONTRACTED
ROLLER SHADES	C12-500	ROLL-A-SHADE, INC.	CRYSTAL QUINTERO	951.459.0388	CFA@ROLLASHADE.COM	AS CONTRACTED
OUTDOOR FURNITURE	C12-540	BENCHMARK CONTRACT FURNITURE	TRIMARK STRATEGIC	229-903-3697	AMANDA.MATTHEWS@TRIMARKUSA.COM	ALL U.S. REGIONS
OUTDOOR FURNITURE	C12-540	TUUCI	TRIMARK STRATEGIC	229-903-3697	AMANDA.MATTHEWS@TRIMARKUSA.COM	
SINKS	C15-300	EAGLE	TRIMARK STRATEGIC	229-903-3697	AMANDA.MATTHEWS@TRIMARKUSA.COM	ALL U.S. REGIONS
PLUMBING FIXTURES	C15-400	FERGUSON	FERGUSON TEAM	844-868-8060	NA.PROJECTS@FERGUSON.COM	W, SW
PLUMBING FIXTURES	C15-400	HJC, INC.	ASK FOR THE CHICK-FIL-A CUSTOMER SERVICE REP	800-459-7099	CF@HJCINC.COM	ATL, NE, SE, MW
WATER TREATMENT	C15-400	KINETICO	HOLLY CUMMINGS	440-564-9111	CFA@KINETICO.COM	ALL U.S. REGIONS
DT WINDOW/DOOR ELECTRIC HEATER	C15-700	BROMIC	JOHN GUINN	314-633-0415	JOHN.GUINN@VILLALIGHTING.COM	ALL U.S. REGIONS
OIL RECLAMATION SERVICES	C15-700	DAR-PRO	CARTER GREESON	404-308-1981	CGREESON@DARLINGII.COM	ALL U.S. REGIONS
AIR CURTAINS	C15-715	TOM BARROW COMPANY	CFA TEAM	(404) 351-1010	CFATEAM@TOMBARROW.COM	W, MW, NE, ATL, SE
AIR DEVICES	C15-715	POWERS OF ARKANSAS	ELLIOT SPECHT	877-274-7127	CFAQUOTES@POWERS-HVAC.COM	SW
AIR DEVICES	C15-715	TOM BARROW COMPANY	CFA TEAM	(404) 351-1010	CFATEAM@TOMBARROW.COM	W, MW, NE, ATL, SE
HVAC SYSTEM – ROOFTOP UNITS	C15-730	LENNOX INDUSTRIES INC	LENNOX NATIONAL ACCOUNTS PARTS TEAM	800-906-4427	LNXNATIONALACCOUNTSPARTS@LENNOXIND.COM	ATL,SE,SW,W
HVAC SYSTEM – ROOFTOP UNITS	C15-730	TRANE	SCOTT ROWLEY	630-200-7155	CFA@TRANE.COM	NE, MW
EXHAUST HOODS	C15-836	HALTON USA	PHIL MEREDITH	270-237-5600	CFA.US@HALTON.COM	ALL U.S. REGIONS
TEST & BALANCE	C15-950	NATIONAL TAB INTELLIGENCE	LAURA ROBINSON	855-682-6822 EXT 3	CFA@NATIONALTAB.COM	MW, NE, ATL, SE
TEST & BALANCE	C15-950	QUALITY TAB SERVICES, LLC	KATIE LOVVORN	864-603-3338	CFA@QTABSERVICES.COM	ALL U.S. REGIONS
TEST & BALANCE	C15-950	UNITED TAB	WILLIAM CLAYTON	800-213-2195X703	CFA@UTAB.US	W, SW
DINING ROOM SPEAKERS	C16-000	MOOD MEDIA	TRIMARK STRATEGIC	229-903-3697	AMANDA.MATTHEWS@TRIMARKUSA.COM	ALL U.S. REGIONS
BUILDING AUTOMATION AND CONTROL SYSTEMS	C16-200	SUNCOAST ENVIRONMENTAL CONTROLS	TOBY AXMAN	(877) 544-6679	SECONTROLSTDA@AOL.COM	ALL U.S. REGIONS
SWITCHGEAR	C16-200	VILLA LIGHTING	PRESTON PLAMBECK	314-633-0413	PRESTON.PLAMBECK@VILLALIGHTING.COM	ALL U.S. REGIONS
LIGHTING PACKAGE	C16-500	VILLA LIGHTING	LAUREN STAHLHUTH	314-633-0488	LAUREN.STAHLHUTH@VILLALIGHTING.COM	ALL U.S. REGIONS
FLY LIGHTS	C16-530	PESTWEST	TRIMARK STRATEGIC	229-903-3697	AMANDA.MATTHEWS@TRIMARKUSA.COM	ALL U.S. REGIONS
DRIVE-THRU HEADSET	C16-700	MOOD MEDIA	BRIDGETTE MANN, MARY NIRENBERG	800-316-8000	STRATEGIC-CFA@MOODMEDIA.COM	ALL U.S. REGIONS
MUSIC	C16-880	MOOD MEDIA	TRIMARK STRATEGIC	229-903-3697	AMANDA.MATTHEWS@TRIMARKUSA.COM	ALL U.S. REGIONS
IRRIGATION	C02-810	RAINBIRD	DONN MANN	520-904-1146	DMANN@RAINBIRD.COM	ALL U.S. REGIONS
DRIVE-THRU WINDOW	C08-580	QUIK SERV	BRIAN MCCLOSKEY	832-792-2646	BMCCLOSKEY@QUIKSERV.COM	ALL U.S. REGIONS
FRP PANELS (PLAYGROUND)	C09-330	KOROGARD	MARTHA SMITH	404-771-6773	MSMITH@KOROSEAL.COM	ALL U.S. REGIONS
POS SYSTEMS 2	C11-020	CHICK-FIL-A IT	SCOTT SKIPPER	404-684-8524	NONE	ALL U.S. REGIONS
POS WIRING AND SECURITY	C11-020	STAR ASSET SECURITY	ASHLEY HICKMAN	877-801-1616	CFATEAM@SECURETHINKING.COM	ALL U.S. REGIONS
DEX TABLES & COUNTERS (WHEN REQD.)	C12-560	DEX INDUSTRIES	SHANNON PHILLIPS	404-753-9600	CUSTOMERSERVICE@DEXINDUSTRIES.COM	ALL U.S. REGIONS
MESSAGING (INTERIOR)	C12-610	CHARTER HOUSE INTERNATIONAL (CHI)	JULIA WOODWARD	404-784-2960	JULIA.WOODWARD@CHARTER-HOUSE.COM	ALL U.S. REGIONS
MESSAGING (INTERIOR)	C12-610	FCC COMMERCIAL FURNITURE	MICHELLE GANSKO	541-464-5235	MICHELLE.GANSKO@FCCFURN.COM	ALL U.S. REGIONS
STEEL WALL FABRICATION	C12-610	CHARTER HOUSE INTERNATIONAL (CHI)	JULIA WOODWARD	404-784-2960	JULIA.WOODWARD@CHARTER-HOUSE.COM	ALL U.S. REGIONS
STEEL WALL FABRICATION	C12-610	FCC COMMERCIAL FURNITURE	MICHELLE GANSKO	541-464-5235	MICHELLE.GANSKO@FCCFURN.COM	ALL U.S. REGIONS
MOP SINK GRATE & TRIM	C15-405	LOWTEMP	ANGIE NORRIS	770-478-8803	ANORRIS@LOWTEMPIND.COM	ALL U.S. REGIONS

RESPONSIBILITY SCHEDULE

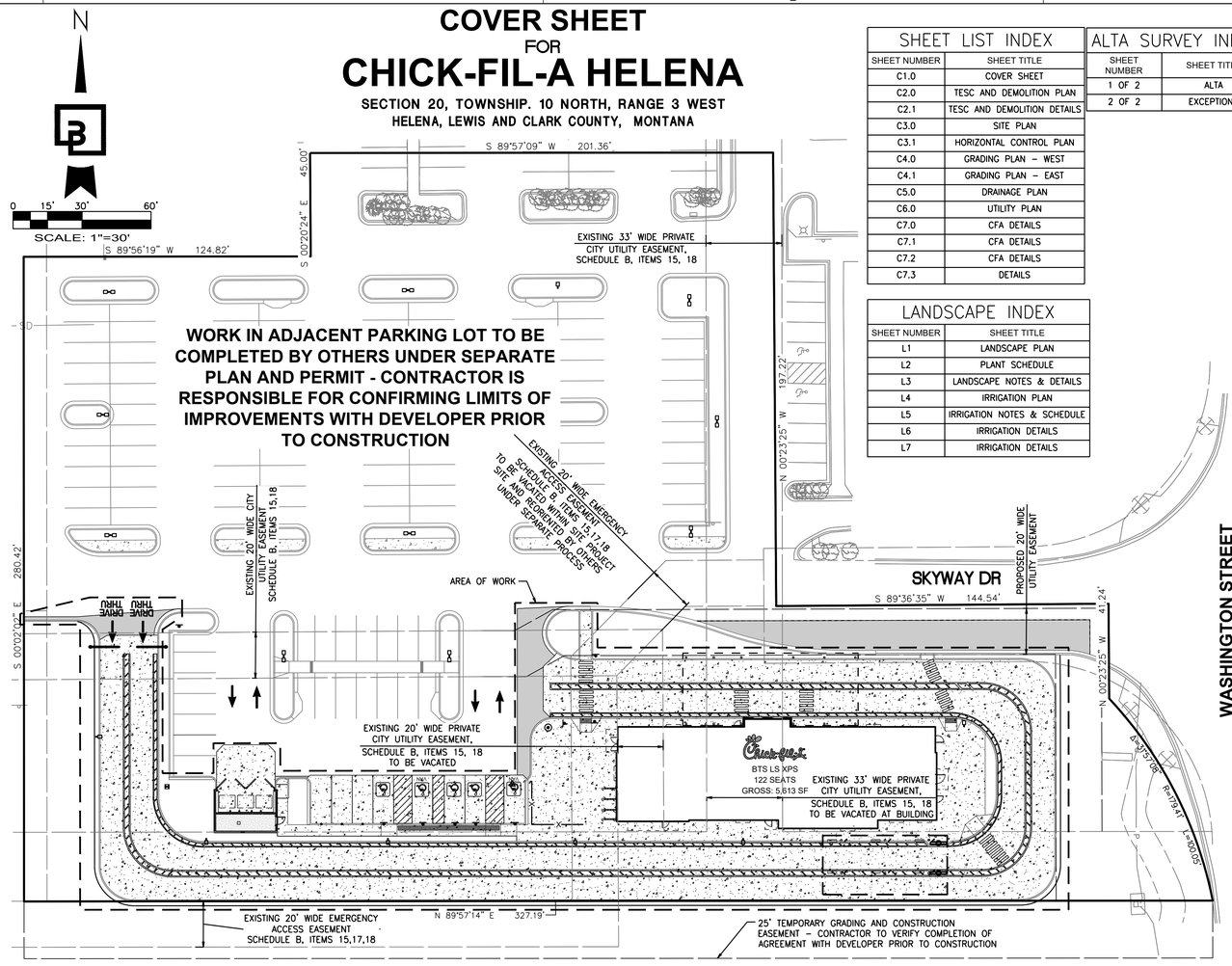
DESCRIPTION	DOES NOT APPLY	EXST. TO REMAIN	GC FURN.	GC INSTALL	GC DELIVER ASSEMBLE LOCATE	OWNER FURN	OWNER INSTALL	LANDLORD FURN.	LANDLORD INSTALL	LANDLORD DELIVER ASSEMBLE LOCATE	COMMENTS
FIELD ENGINEERING			o	o	o						
PROJECT PROCEDURES, PROJECT CLOSEOUT			o	o	o						
TEMPORARY POWER / FACILITIES,SERVICES AND CONTROLS			o	o	o						
TEMPORARY BARRICADES			o	o	o						
PERMITS/INSPECTIONS			o	o	o						
PROTECTION OF SITE WORK AND ADJACENT CONSTRUCTION			o	o	o						
UNLOADING OF ALL OWNER SUPPLIED ITEMS					o						
DISPOSAL OF CRATING / PACKING MATERIALS					o						
DEMOLITION WORK			o	o	o						
FLOOR & ROOF PENETRATIONS			o	o	o						
CONCRETE			o	o	o						MAKE SLAB LEVEL, SMOOTH & READY TO ACCEPT INTERIOR FLOOR FIN.
MASONRY			o	o	o						
GRANITE/STONE			o	o	o						
STRUCTURAL FRAMING SYSTEMS/ SUPPORTS			o	o	o						
COURTESY ROOF FRAMING INSPECTION			o								CONTACT REP IN NAT. ACCOUNT SCHED - SEE FRAMING PLAN FOR ADDITIONAL INFO
ROOFING MATERIALS (MEMBRANE, FLASHING, SEALANT, ETC.)			o	o	o						INCLUDES SNOW GUARDS ON METAL ROOFS, WHERE REQUIRED REGIONALLY
STAIRS - COMPLETE SYSTEM (HANDRAILS, NOSING STRIPS ETC.)			o	o	o						
PATIO RAILINGS, TREILLAGE, & RETAINING WALLS			o	o	o						
PATIO TABLES, CHAIRS, UMBRELLAS						o	o				
ROUGH CARPENTRY & ALL BLOCKING			o	o	o						
MILLWORK - CABINETS						o	o				
INSULATION, FIRESTOPPING, SEALANT & BACKER ROD			o	o	o						
VAPOR / AIR BARRIERS / FLASHING			o	o	o						AS REQUIRED
WATERPROOF MEMBRANE			o	o	o						INCL. FLOOR PREP & SEALING. PROVIDE MOISTURE TESTS AT SLAB AS REQ'D. BY FLOORING MANUF. SPECS. TO ENSURE NEW FLOORING IS INSTALLED AS REQ'D.
ELIASON DOOR, DOOR FRAME & HARDWARE			o	o	o						GC TO PLACE ORDER THROUGH DOOR VENDOR LISTED IN NATIONAL ACCOUNTS SCHED.
SPECIALTY DOOR, DOOR FRAME & HARDWARE & SEALS			o	o	o						INCL. REAR KITCHEN DOORS, HARDWARE PROVIDED BY GC. SEE DOOR SCHEDULE
DOORS, DOOR FRAMES, TRIM & HARDWARE & SEALS			o	o	o						SEE NOTE #8
ACCESS PANELS			o	o	o						
STOREFRONT & GLAZING			o	o	o						INCLUDES STOREFRONT ENTRY DOORS & ANY SOLAR SUNSHADE DEVICES
GLASS			o	o	o						
CABINET HARDWARE & ACCESSORIES						o	o				
GYPSUM BOARD ASSEMBLIES			o	o	o						INCLUDES PREPARATION & REPAIR TO DAMAGED WALLS
METAL STUD/GYP BD (INTERIOR)			o	o	o						
PLAYGROUND EQUIPMENT						o	o				
FURNITURE						o	o				GC TO CORE DRILL FOR FURNITURE
DEX TABLES & COUNTERS (WHEN REQ'D.)			o	o	o						PROVIDED BY DEX, ORDERED BY GC. REFER TO PLANS
CEILINGS, SOFFITS, CEILING TILE & GRID			o	o	o						INCLUDES CEILING PREPARATION & SEALING.
PREFABRICATED LAMINATED SOFFITS						o	o				BY SIGN VENDOR, ELECTRICAL TO HOOK-UP (CONNECTION ONLY)
PAINTING			o	o	o						INCLUDES WALL PREPARATION & SEALING.
STAINED / INTEGRAL COLOR CONCRETE & SEALERS			o	o	o						INCLUDES FLOOR PREPARATION & SEALING.
MILLWORK CURBS				o	o						INCLUDES FLOOR PREPARATION & SEALING.
FLOOR TILE & TRIM			o	o	o						INCLUDES FLOOR PREPARATION & SEALING.
TILE, VINYL & WOOD WALL BASES			o	o	o						SEE FINISH PLANS FOR LOCATIONS
WALL TILE & TRIM			o	o	o						INCLUDES INSTALLATION OF INTEGRATED OWNER SIGNAGE/GRAPHICS
TILED LOW WALLS			o	o	o						COORDINATE WITH OWNER FOR PRICING PRIOR TO ORDERING
ALL TILE SETTING MATERIALS, GROUT & ACCESSORIES			o	o	o						GC TO ORDER THRU NA VENDOR
FLOOR TRANSITION STRIPS			o	o	o						
STAINLESS STEEL PANELS & TRIM			o	o	o						INCLUDES WALL PREPARATION & SEALING.
STAINLESS STEEL CORNER GUARDS			o	o	o						INCLUDES ADHESIVES AND/OR MECHANICAL FASTENERS
FRP & TRIM			o	o	o						INCLUDES WALL PREPARATION & SEALING.
WAINSCOT & TRIM (INCLUDES SOLID SURFACE WINDOW SILL)				o	o	o					G.C. TO ORDER MATERIAL FROM WOOD DECOR PROVIDER. INCL. WALL PREP. & SEALING.
PREFINISHED WHITE OAK WOOD BOARDS			o	o	o						GC TO ORDER DIRECTLY FROM SKYLAR MORGAN
TRASH DUMPSTERS						o	o				OPERATOR TO COORDINATE WITH LOCAL AUTHORITIES
WOOD COUNTERTOP, SHELVING, & LAMINATE						o	o				MILLWORRER TO STAIN & SEAL AS REQUIRED
SOLID SURFACE COUNTERTOP						o	o				
COMPUTER EQUIPMENT/SYSTEM						o	o				
CABINETS & DISPLAY CASES						o	o				
CAULKING CABINETS & MILLWORK						o	o				
SETTING / LEVELING OF CABINETS & MILLWORK						o	o				
SHELVING						o	o				
LOCKERS						o	o				
DECORATIVE MIRRORS						o	o				
INTERIOR SIGNAGE						o	o				
INTERIOR MENUBOARD						o	o				INSTALLED BY STRATEGIC EQUIPMENT
INTERIOR GRAPHICS / ART WORK						o	o				SEE TILED LOW WALLS
EXTERIOR SIGNAGE						o	o				BY SIGN VENDOR, UNDER SEPARATE PERMIT, ELECT. TO HOOK-UP(CONNECTION ONLY)
EXTERIOR MENU BOARDS/ ORDER POINT						o	o				BY SIGN VENDOR, UNDER SEPARATE PERMIT, ELECT. TO HOOK-UP(CONNECTION ONLY)
EXTERIOR MENU BOARDS/ ORDER POINT FOOTING			o	o	o						INCLUDING REBAR AND ANCHOR BOLTS - INSTALL AT SAME TIME AS CANOPY FOOTINGS
EXTERIOR CANOPIES & ATTACHMENT ACCESSORIES						o	o				BY SIGN VENDOR, ELECTRICAL TO HOOK-UP (CONNECTION ONLY)
EXTERIOR WALL ASSEMBLY			o	o	o						
EXTERIOR FINISHES			o	o	o						
FIRE SUPPRESSION SYSTEM						o	o				
GREASE INTERCEPTOR			o	o	o						
3-COMPARTMENT SINK AND/OR 4-COMPARTMENT SINK						o	o				CONNECTIONS AND HOOK-UP BY G.C.
HAND SINKS						o	o				CONNECTIONS AND HOOK-UP BY G.C.
MOP BASIN			o	o	o						
HOT WATER HEATER			o	o	o						
KITCHEN HOOD W/ LIGHTS & FILTERS				o	o	o					
ALL KITCHEN/OTHER EQUIPMENT NOT LISTED ON SCHEDULE.						o	o				INSTALL PER DWGS. CONFIRM DELIVERY DATES WITH OWNER
FIRE EXTINGUISHERS						o	o				G.C. TO COORDINATE WITH FIRE MARSHAL FOR FE LOCATION AND HALTON FOR FE INSTALL
AIR CURTAIN			o	o	o						G.C. TO PURCHASE THRU VENDOR
WATER FILTRATION				o	o	o					G.C. TO CONTACT AND COORDINATE WITH KINETICO FOR INSTALLATION
WINDOW TREATMENTS			o	o	o						G.C. TO PURCHASE THRU VENDOR
HVAC UNITS			o	o	o						
MAKE UP AIR UNIT			o	o	o						
HVAC DISTRIBUTION / GRILLES, DIFFUSERS & EXTERIOR LOUVERS			o	o	o						
ALL HVAC, INCLUDING BALANCING			o	o	o						PRIOR TO OWNER ACCEPTING OF SPACE FROM GC
ALL GAS			o	o	o						
ALL PLUMBING INCLUDING SEWER			o	o	o						COORDINATE PLBG. HOOK-UP LOCATION WITH UTILITY PROVIDER
WATER SUPPLY DISTRIBUTION			o	o	o						COORDINATE WATER METER REQUIREMENTS WITH UTILITY PROVIDER
SANITARY VENTS			o	o	o						
UTILITIES TO ROOF / BASEMENT			o	o	o						
SPRINKLER SYSTEM DISTRIBUTION INC. DESIGN, HEADS & ACCS.			o	o	o						G.C. TO COORDINATE W/ FIRE SPRINKLER SUB.
WIRING, CONDUIT & J-BOXES FO

COVER SHEET
FOR
CHICK-FIL-A HELENA

SECTION 20, TOWNSHIP. 10 NORTH, RANGE 3 WEST
HELENA, LEWIS AND CLARK COUNTY, MONTANA

GENERAL SITE NOTES:

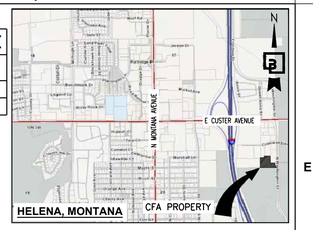
1. THE CONTRACTOR SHALL OBTAIN AND HAVE AVAILABLE COPIES OF THE APPLICABLE GOVERNING AGENCY STANDARDS AT THE JOB SITE DURING THE RELATED CONSTRUCTION OPERATIONS.
2. CONTRACTOR SHALL ENSURE THAT ALL NECESSARY PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCING WORK.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION WHETHER SHOWN ON THESE PLANS OR NOT. UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THIS SITE. ONLY THOSE UTILITIES WITH EVIDENCE OF THEIR INSTALLATION VISIBLE AT GROUND SURFACE OR SHOWN ON RECORD DRAWING PROVIDED BY OTHERS ARE SHOWN HEREON. EXISTING UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY AND ARE SUBJECT TO A DEGREE OF UNKNOWN VARIATION. SOME UNDERGROUND LOCATIONS SHOWN HEREON MAY HAVE BEEN TAKEN FROM PUBLIC RECORDS. BARGHAUSEN CONSULTING ENGINEERS, INC. ASSUMES NO LIABILITY FOR THE ACCURACY OF PUBLIC RECORDS OR RECORDS OF OTHERS. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THE PROJECT WORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR THE RELATIVE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS AND IN FULL COMPLIANCE WITH LOCAL REGULATIONS AND CODES.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE APPROPRIATE UTILITIES INVOLVED PRIOR TO CONSTRUCTION.
6. INSPECTION OF SITE WORK WILL BE ACCOMPLISHED BY A REPRESENTATIVE OF THE GOVERNING JURISDICTION. INSPECTION OF PRIVATE FACILITIES WILL BE ACCOMPLISHED BY A REPRESENTATIVE OF THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE INSPECTOR 24 HOURS IN ADVANCE OF BACKFILLING ALL CONSTRUCTION.
7. PRIOR TO ANY CONSTRUCTION OR DEVELOPMENT ACTIVITY THE CONTRACTOR SHALL CONTACT THE AGENCY AND/OR UTILITY INSPECTION PERSONNEL AND ARRANGE ANY REQUIRED PRE-CONSTRUCTION MEETING(S). CONTRACTOR SHALL PROVIDE ONE WEEK MINIMUM ADVANCE NOTIFICATION TO OWNER, FIELD ENGINEER AND ENGINEER OF PRE-CONSTRUCTION MEETINGS.
8. THE CONTRACTOR IS RESPONSIBLE FOR WORKER AND SITE SAFETY AND SHALL COMPLY WITH THE LATEST OSHA STANDARDS AND REGULATIONS, OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE "MEANS AND METHODS" REQUIRED TO MEET THE INTENT AND PERFORMANCE CRITERIA OF OSHA, AS WELL AS ANY OTHER ENTITY THAT HAS JURISDICTION FOR EXCAVATION AND/OR TRENCHING PROCEDURES.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED.
10. PROTECTIVE MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT ALL ADJACENT PUBLIC AND PRIVATE PROPERTIES AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL EXISTING UTILITY SERVICES THAT ARE TO REMAIN OPERATIONAL WITHIN THE CONSTRUCTION AREA WHETHER SHOWN OR NOT SHOWN ON THE PLANS.
11. TWO (2) COPIES OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS. ONE (1) SET WITH RECORDS OF AS-BUILT INFORMATION SHALL BE SUBMITTED TO BARGHAUSEN CONSULTING ENGINEERS, INC. AT COMPLETION OF PROJECT.
12. CONTRACTOR SHALL OBTAIN SERVICES OF A LICENSED LAND SURVEYOR TO STAKE HORIZONTAL CONTROL FOR ALL NEW IMPROVEMENTS. STAKING CONTROL SHALL BE TAKEN FROM ELECTRONIC PLAN FILES PROVIDED BY BARGHAUSEN CONSULTING ENGINEERS, INC.
13. CONTRACTOR SHALL REQUEST FROM BARGHAUSEN CONSULTING ENGINEERS, INC., PRIOR TO ANY CONSTRUCTION STAKING OR CONSTRUCTION WORK, A FORMAL CONSTRUCTION RELEASE PLAN SET OR SPECIFIC RELEASE IN WRITING. THE APPROVED AGENCY PERMIT DRAWINGS WILL NOT BE CONSIDERED CONSTRUCTION RELEASE PLANS BY BARGHAUSEN CONSULTING ENGINEERS, INC. UNLESS BARGHAUSEN CONSULTING ENGINEERS, INC. HAS GIVEN A FORMAL WRITTEN RELEASE OR ISSUED A CONSTRUCTION RELEASE PLAN SET.



SHEET LIST INDEX	
SHEET NUMBER	SHEET TITLE
C1.0	COVER SHEET
C2.0	TESC AND DEMOLITION PLAN
C2.1	TESC AND DEMOLITION DETAILS
C3.0	SITE PLAN
C3.1	HORIZONTAL CONTROL PLAN
C4.0	GRADING PLAN – WEST
C4.1	GRADING PLAN – EAST
C5.0	DRAINAGE PLAN
C6.0	UTILITY PLAN
C7.0	CFA DETAILS
C7.1	CFA DETAILS
C7.2	CFA DETAILS
C7.3	DETAILS

ALTA SURVEY INDEX	
SHEET NUMBER	SHEET TITLE
1 OF 2	ALTA
2 OF 2	EXCEPTIONS

LANDSCAPE INDEX	
SHEET NUMBER	SHEET TITLE
L1	LANDSCAPE PLAN
L2	PLANT SCHEDULE
L3	LANDSCAPE NOTES & DETAILS
L4	IRRIGATION PLAN
L5	IRRIGATION NOTES & SCHEDULE
L6	IRRIGATION DETAILS
L7	IRRIGATION DETAILS



VICINITY MAP
N.T.S.

ENGINEER
BARGHAUSEN CONSULTING ENGINEERS, INC.
18215 72ND AVE. SOUTH
KENT, WA 98032
TEL: (425) 251-6222
FAX: (425) 251-8782
CONTACT: JASON CAREY

PROJECT INFORMATION
PROPERTY ADDRESS
WASHINGTON STREET HELENA, MT 59602

FLOOD ZONE INFORMATION
THIS PROPERTY IS IN ZONE X OF THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 300040C 2307E, WITH AN EFFECTIVE DATE OF 09/19/2012, AND IS NOT IN A SPECIAL FLOOD HAZARD AREA.

PARCEL NUMBERS
05-1888-20-1-02-05-0000 &
05-1888-20-1-02-19-0000

ZONING DISTRICT DESIGNATION
(B) COMMERCIAL

DATUM – NAD 83 (GEOID 18)

BENCH MARK
#1 (MAG NAIL)
NORTHING: 265601.837'
EASTING: 408162.847'
ELEVATION= 3845.40 FT

CLIENT
CHICK-FIL-A
15635 ALTON PARKWAY, SUITE 350
IRVINE, CA 92618
CONTACT: SABRINA WRIGHT
EMAIL: SABRINA.WRIGHT2@CFACORP.COM

LANDSCAPE ARCHITECT
BARGHAUSEN CONSULTING ENGINEERS, INC.
18215 72ND AVE. SOUTH
KENT, WA 98032
TEL: (425) 251-6222
FAX: (425) 251-8782
CONTACT: JEFF VARLEY, R.L.A.

GEOTECHNICAL
TERRACON CONSULTANTS, INC.
1392 13TH AVE SW
GREAT FALLS, MT 59404
(406) 453-5400
CONTACT: J. ADAM PROUD, P.E.

ARCHITECT
WARE MALCOMB
3015 112TH AVE NE #205
BELLEVUE, WA 98004
TEL: (310) 903-4021
CONTACT: NONY RIVERA
EMAIL: NRIVERA@WAREMALCOMB.COM

SURVEY
SANDERSON STEWART
1300N TRANSTECH WAY
BILLINGS, MT 59102
TEL: (406) 656-5255
CONTACT: DOUGLAS W. PEZOLDT
EMAIL: LANDSURVEY@SANDERSONSTEWART.COM

SITE INFORMATION
EXISTING ON-SITE SURFACE AREAS
TOTAL SITE AREA: 48,181 SF (1.11 AC)
TOTAL IMPERVIOUS: 3,876 SF (0.09 AC)
TOTAL PERVIOUS/LANDSCAPE AREA: 44,305 SF (1.02 AC)

PROPOSED ON-SITE SURFACE AREAS
TOTAL SITE AREA: 48,181 SF (1.11 AC)
TOTAL IMPERVIOUS: 36,010 SF (0.83 AC)
TOTAL PERVIOUS/LANDSCAPE AREA: 12,171 SF (0.28 AC)

GEOTECHNICAL REPORT NOTES:
1. THE FOLLOWING GEOTECHNICAL REPORTS FOR THE SITE SHALL BE CONSIDERED PART OF THESE CONSTRUCTION DOCUMENTS:

   SOILS REPORTS: GEOTECHNICAL ENGINEERING REPORT
   JOB NUMBER: C4235014
   DATE: APRIL 27, 2023

   PREPARED BY: TERRACON CONSULTANTS, INC.
   1392 13TH AVE SW
   GREAT FALLS, MT 59404
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL PROVISIONS OF THE SOILS REPORT FOR THE SITE BE OBSERVED AND COMPLIED WITH DURING ALL PHASES OF THE SITE PREPARATION, GRADING OPERATIONS, FOUNDATION, SLAB, AND PAVING CONSTRUCTION.
3. ANY PROVISIONS OF THE SOILS REPORT WHICH CONFLICT WITH INFORMATION SHOWN ELSEWHERE ON THESE DRAWINGS, OR WHICH REQUIRE FURTHER CLARIFICATION, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR DETERMINATION.
4. A REPRESENTATIVE OF THE SOILS ENGINEER SHALL BE AVAILABLE TO OBSERVE AND APPROVE THE EARTHWORK OPERATIONS AND TO VERIFY FIELD CONDITIONS AS WORK PROCEEDS. THE SOILS ENGINEER SHALL SUBMIT FIELD REPORTS CERTIFYING THAT THE METHODS AND MATERIALS OF THE EARTHWORK OPERATIONS WERE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE SOILS INVESTIGATION AND THAT THE WORK WAS PERFORMED TO HIS/HER SATISFACTION.
5. THE SOILS ENGINEER SHOULD BE NOTIFIED AT LEAST FIVE (5) WORKING DAYS PRIOR TO ANY SITE CLEARING OR GRADING.

LEGAL DESCRIPTION:
THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE COUNTY OF LEWIS AND CLARK, STATE OF MONTANA, AND IS DESCRIBED AS FOLLOWS:

PARCEL 1: LOT 4-F OF THE AMENDED SKYWAY REGIONAL SHOPPING CENTER PLAT PHASE AMENDING LOTS 1, 2, 4 AND 5 OF THE SKYWAY REGIONAL SHOPPING CENTER MINOR SUBDIVISION, LOCATED IN THE WEST HALF OF THE NORTHEAST QUARTER OF SECTION 20, TOWNSHIP 10 NORTH, RANGE 3 WEST, P.M.M., LEWIS AND CLARK COUNTY, MONTANA, FILED UNDER DOCUMENT NUMBER 3140492.

PARCEL 2: LOT 4-E-1 OF THE AMENDED PLAT OF SKYWAY REGIONAL SHOPPING CENTER PLAT- PHASE 1 TO THE CITY OF HELENA, LEWIS AND CLARK COUNTY, MONTANA, AS SHOWN ON PLAT FILED UNDER DOCUMENT NUMBER 3224561.

LEGEND:

PROPOSED		EXISTING		EXISTING	
CURB AND GUTTER		CURB		MONUMENT	
BARRIER CURB		PAINT STRIPE		LUMINAIRE (LUM.)	
CONCRETE		CONCRETE		YARD LIGHT	
ASPHALT		CONTOUR	432	POWER METER	
SAWCUT		WATER	-W- -W-	POWER POLE	
CONTOUR	432	STORM	SD	JUNCTION BOX (AS NOTED)	
WATER	W	SANITARY	SS	CATCH BASIN (CB)	
WATER METER		GAS	G	STORM MANHOLE (SDMH)	
STORM		POWER OVERHEAD	P (OH)	SANITARY SEWER MANHOLE (SSMH)	
SANITARY		POWER UNDERGROUND	P (UG)	CLEANOUT (AS NOTED)	
GAS	G	GRAVEL/SAND (AS NOTED)		GAS METER	
POWER	P	ASPHALT		GAS VALVE	
PAINT STRIPE		BUILDING LINE		WATER VALVE (WV)	
CURB INLET		WATER LINE	W	FIRE HYDRANT (FH)	
MANHOLE		OH/UG TEL. LINE	T(XX)	CONNECTION (FDC)	
SANITARY SEWER CLEANOUT		DECIDUOUS TREE		WATER METER	
				SIGN	
				DIRECTIONAL ARROW	
				BOLLARD	

ESTIMATED EARTHWORK QUANTITIES:
CUT: 2,025 CY
FILL: 375 CY
NET: 1,650 CY (CUT)
AREA TO BE DISTURBED = 1.11 AC
EARTHWORK QUANTITIES ARE APPROXIMATE AND SHALL NOT BE USED FOR BID. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AN INDEPENDEDNT ESTIMATE FOR BIDDING OR CONTRACTING.

MONUMENT PROTECTION NOTE:
CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR OBTAINING PERMITS FROM ANY JURISDICTIONS HAVING AUTHORITY FOR REMOVING AND REPLACING ALL SURVEY MONUMENTATION THAT MAY BE AFFECTED BY CONSTRUCTION ACTIVITY. UPON COMPLETION OF CONSTRUCTION, ALL MONUMENTS DISPLACED, REMOVED, OR DESTROYED SHALL BE REPLACED BY A REGISTERED LAND SURVEYOR, AT THE COST AND AT THE DIRECTION OF THE CONTRACTOR, PURSUANT TO THESE REGULATIONS. THE APPROPRIATE FORMS FOR REPLACEMENT OF SAID MONUMENTATION SHALL ALSO BE THE RESPONSIBILITY OF THE CONTRACTOR.

HORIZONTAL CONTROL NOTE:
CONTRACTOR SHALL HAVE ALL PROPERTY LINES, CURB, SIDEWALK, STRUCTURES, CONCRETE PADS AND ANY OTHER ABOVE GROUND PERMANENT STRUCTURE DEPICTED ON THESE PLANS STAKED FOR CONSTRUCTION BY A LICENSED SURVEYOR. LICENSED SURVEYOR SHALL STAKE ALL ITEMS USING COORDINATE GEOMETRY (RECTIFIED TO SITE CONTROL) CONTAINED IN CAD DRAWING FILES PROVIDED BY BARGHAUSEN CONSULTING ENGINEERS, INC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RETRIEVE LATEST CAD FILES FROM BARGHAUSEN CONSULTING ENGINEERS INC., REFLECTING ANY ISSUED PLAN REVISIONS. BARGHAUSEN CONSULTING ENGINEERS SHALL IMMEDIATELY BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION.

UTILITY CONFLICT NOTE:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE @ 811 AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

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Chick-fil-A
5200 Buffington Road
Atlanta, Georgia 30349-2998

Barghausen Consulting Engineers, Inc.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

HAL P. GRUBB 17259 PE
PROFESSIONAL ENGINEER
11/18/2025

CHICK-FIL-A
2770 N WASHINGTON ST
HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE:
RELEASE:

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	11/10/2025	DELIVERY PATH REVISION
2	11/17/2025	BUILDING FOOTPRINT AND TRASH REVISION

CONSULTANT PROJECT #	22725
PRINTED FOR	PERMIT
DATE	11/18/25
DRAWN BY	CJC

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SHEET
COVER SHEET

SHEET NUMBER
C1.0

CCLINCH 11/18/2025 8:20 AM
J:\22000s\22725\engineering\22725-0.dwg

TESC AND DEMOLITION PLAN
FOR
CHICK-FIL-A HELENA
SECTION 20, TOWNSHIP. 10 NORTH, RANGE 3 WEST
HELENA, LEWIS AND CLARK COUNTY, MONTANA

N

0 10' 20' 40'
SCALE: 1"=20'

EROSION CONTROL CALLOUTS:

1. CONTRACTOR TO INSTALL PERIMETER PROTECTION (SILT FENCE, STRAW WATTLES, ETC.) AROUND PERIMETER OF SITE AS REQUIRED TO PREVENT SILT-LADEN RUNOFF FROM LEAVING SITE, AND AS DIRECTED BY CITY INSPECTOR. PER MDT EROSION AND SEDIMENT CONTROL BMP MANUAL STANDARD DETAIL SC-1. SEE SHEET C2.1.
2. CONTRACTOR TO INSTALL STORM DRAIN PROTECTION AT ALL EXISTING AND PROPOSED INLETS AS REQUIRED TO PREVENT SILT-LADEN WATER FROM ENTERING STORM DRAINAGE SYSTEM. COORDINATE PLACEMENT WITH PROPERTY OWNERS AND AS DIRECTED BY CITY INSPECTOR PER MDT EROSION AND SEDIMENT CONTROL BMP MANUAL STANDARD DETAIL SC-12 SHEETS 1 AND 2. SEE SHEET C2.1.
3. CONTRACTOR TO INSTALL TEMPORARY STABILIZED CONSTRUCTION ENTRANCE/EXIT (TRACKING PAD) LOCATIONS VARY.

DEMOLITION CALLOUTS:

1. PROTECT EXISTING UNDERGROUND POWER LINE.
2. PROTECT EXISTING UNDERGROUND GAS LINE.
3. REMOVE EXISTING GRAVEL.
4. DEMOLISH EXISTING METAL FENCE.
5. DEMOLISH EXISTING CONCRETE BLOCKS.
6. PROTECT EXISTING SEWER MAIN.
7. DEMOLISH EXISTING POWER BOX.
8. REMOVE EXISTING TREES.
9. PROTECT EXISTING STORM DRAIN MAIN.
10. REMOVE EXISTING SEWER MAIN AND STRUCTURE.
11. REMOVE EXISTING WATER MAIN AND STRUCTURE.
12. PROTECT EXISTING WATER MAIN.
13. DEMOLISH EXISTING POWER LINE.
14. DEMOLISH EXISTING LOT LIGHT.
15. DEMOLISH EXISTING GAS LINE.
16. DEMOLISH EXISTING CURB.

TESC LEGEND:

- INLET PROTECTION
- SILT FENCE
- LIMITS OF DISTURBANCE
- GRAVEL TO BE REMOVED
- ASPHALT TO BE REMOVED
- TREE TO BE REMOVED

S 89°57'09" W 201.36'
S 00°20'24" E 45.00'
S 89°56'19" W 124.82'
S 00°02'02" E 280.42'
N 00°23'25" W 197.22'
S 89°36'35" W 144.54'
N 89°57'14" E 327.19'
41.24'

WORK IN ADJACENT PARKING LOT TO BE COMPLETED BY OTHERS UNDER SEPARATE PLAN AND PERMIT - CONTRACTOR IS RESPONSIBLE FOR CONFIRMING LIMITS OF IMPROVEMENTS WITH DEVELOPER PRIOR TO CONSTRUCTION

EXISTING 33' WIDE PRIVATE CITY UTILITY EASEMENT, SCHEDULE B, ITEMS 15, 18

EXISTING 20' WIDE EMERGENCY ACCESS EASEMENT TO BE VACATED BY SCHEDULE B, ITEMS 15,17,18 SITE PLAT AND RE-DRAWN WITH SITE PROJECT UNDER SEPARATE PROCESS BY OTHERS

EXISTING 20' WIDE CITY UTILITY EASEMENT SCHEDULE B, ITEMS 15,18

EXISTING 20' WIDE PRIVATE CITY UTILITY EASEMENT, SCHEDULE B, ITEMS 15, 18 TO BE VACATED

EXISTING 33' WIDE PRIVATE CITY UTILITY EASEMENT, SCHEDULE B, ITEMS 15, 18 TO BE VACATED AT BUILDING

EXISTING 30' WIDE CITY UTILITY EASEMENT SCHEDULE B, ITEMS 15,18 TO BE VACATED

EXISTING 20' WIDE EMERGENCY ACCESS EASEMENT SCHEDULE B, ITEMS 15,17,18

EXISTING 30' WIDE CITY UTILITY EASEMENT SCHEDULE B, ITEMS 15,18

SKYWAY DR

WASHINGTON ST

EDGE OF ASPHALT
STUB END
CONCRETE BLOCKS
MARKED STUB END
UNKNOWN STUB LENGTH
METAL POLE GATE
COMMUNITY MAILBOX
HANDICAP PARKING SIGN
TRUCKS ENTERING SIGN
STOP SIGN
HELENA GRAVEL SIGN
SHOPPING CENTER SIGN PERIMETER
NORTHWESTERN ENERGY UNDERGROUND POWER AND GAS LINES

SSMH
RIM= 3838.57'
INV S (12" PVC)= 3827.92'
INV N (12" PVC)= 3827.87'

FIRE HYDRANT
FLANGE= 3840.54'

STORM DRAIN INLET
RIM= 3839.35'
INV N (12" RCP)= 3834.55'
INV S (12" RCP)= 3834.00'

STORM DRAIN INLET
INV (12" RCP)= 3837.21'

STORM DRAIN INLET
INV (12" RCP)= 3837.02'

STORM DRAIN MANHOLE
RIM= 3841.12'
INV S (12" RCP)= 3836.90'
INV E (12" RCP)= 3836.86'

STORM DRAIN INLET
INV (12" RCP)= 3836.95'

SANITARY SEWER MANHOLE
RIM= 3841.56'
INV N (24" RCP)= 3827.91'
INV S (24" RCP)= 3837.06'

SANITARY SEWER MANHOLE
RIM= 3841.67'
INV W (12" PVC)= 3832.04'
INV N (12" PVC)= 3831.77'

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Chick-fil-A
5200 Buffington Road
Atlanta, Georgia 30349-2998

Barghausen
Consulting Engineers, Inc.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

MONTANA
HAL P. CRUBB
17259 PE
LICENSED PROFESSIONAL ENGINEER
11/18/2025

CHICK-FIL-A
2770 N
WASHINGTON ST
HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE:
RELEASE:

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	11/10/2025	DELIVERY PATH REVISION
2	11/17/2025	BUILDING FOOTPRINT AND TRASH REVISION

CONSULTANT PROJECT #	22725
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DATE	11/18/25
DRAWN BY	CJC

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SHEET
TESC AND DEMOLITION PLAN

SHEET NUMBER
C2.0

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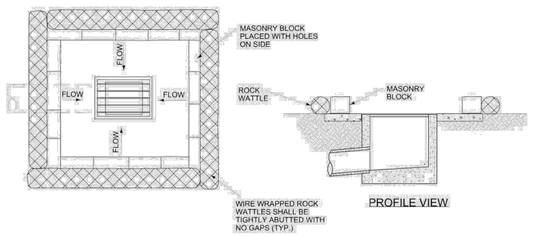
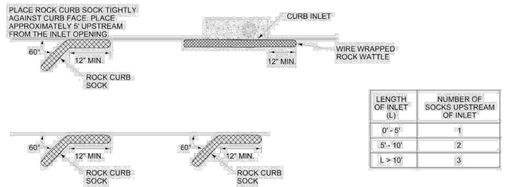
TESC AND DEMOLITION DETAILS
FOR
CHICK-FIL-A HELENA

SECTION 20, TOWNSHIP. 10 NORTH, RANGE 3 WEST
HELENA, LEWIS AND CLARK COUNTY, MONTANA

SC-12 Inlet/Outlet Protection

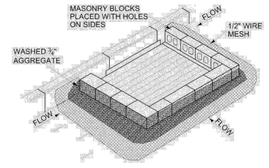


WIRE WRAPPED ROCK WATTLES AT DROP ZONE



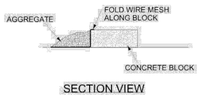
LENGTH OF INLET (L)	NUMBER OF SOCKS UPSTREAM OF INLET
0' - 5'	1
5' - 10'	2
L > 10'	3

ROCK SOCK CURB CHECK AND ROCK WATTLE CURB INLET PROTECTION



GRAVEL AND WIRE MESH FILTER AT CURB INLET

NOTE: SIMILAR PROCESS CAN BE DONE AT A DROP INLET

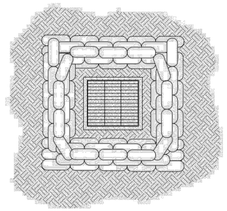


SECTION VIEW

INLET / OUTLET PROTECTION
SC-12 SHEET 1

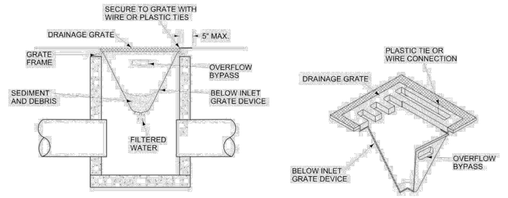
MDT MONTANA DEPARTMENT OF TRANSPORTATION

SC-12 Inlet/Outlet Protection



SANDBAG BARRIER - PLAN VIEW

SANDBAG BARRIER - PROFILE VIEW



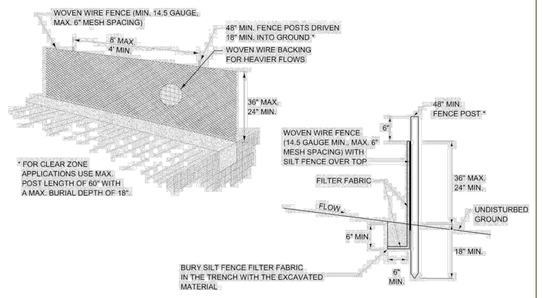
ISOMETRIC VIEW

BELOW INLET GRATE DEVICE

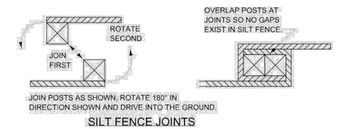
INLET / OUTLET PROTECTION
SC-12 SHEET 2

MDT MONTANA DEPARTMENT OF TRANSPORTATION

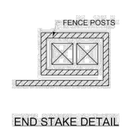
SC-1 Silt Fence



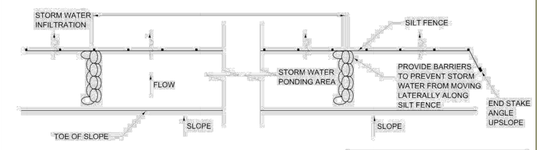
STABILIZED SILT FENCE - CROSS SECTION



SILT FENCE JOINTS



END STAKE DETAIL



SILT FENCE - PLAN VIEW

DISTANCES BETWEEN SILT FENCE WHEN USED FOR SEDIMENT RETENTION ARE AS FOLLOWS:
- FROM 2% TO 3% SLOPE - PLACE SILT FENCE AT 500 FT. SPACING
- FROM 3% TO 4% SLOPE - PLACE SILT FENCE AT 300 FT. SPACING
- FROM 4% + SLOPE - PLACE SILT FENCE AT 150 FT. SPACING

SILT FENCE
SC-1

MDT MONTANA DEPARTMENT OF TRANSPORTATION

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MONTANA
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17259 PE
LICENSED PROFESSIONAL ENGINEER
11/18/2025

CHICK-FIL-A
2770 N WASHINGTON ST
HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE:
RELEASE:

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	11/10/2025	DELIVERY PATH REVISION
2	11/17/2025	BUILDING FOOTPRINT AND TRASH REVISION

CONSULTANT PROJECT #	22725
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SHEET
TESC AND DEMOLITION DETAILS

SHEET NUMBER
C2.1

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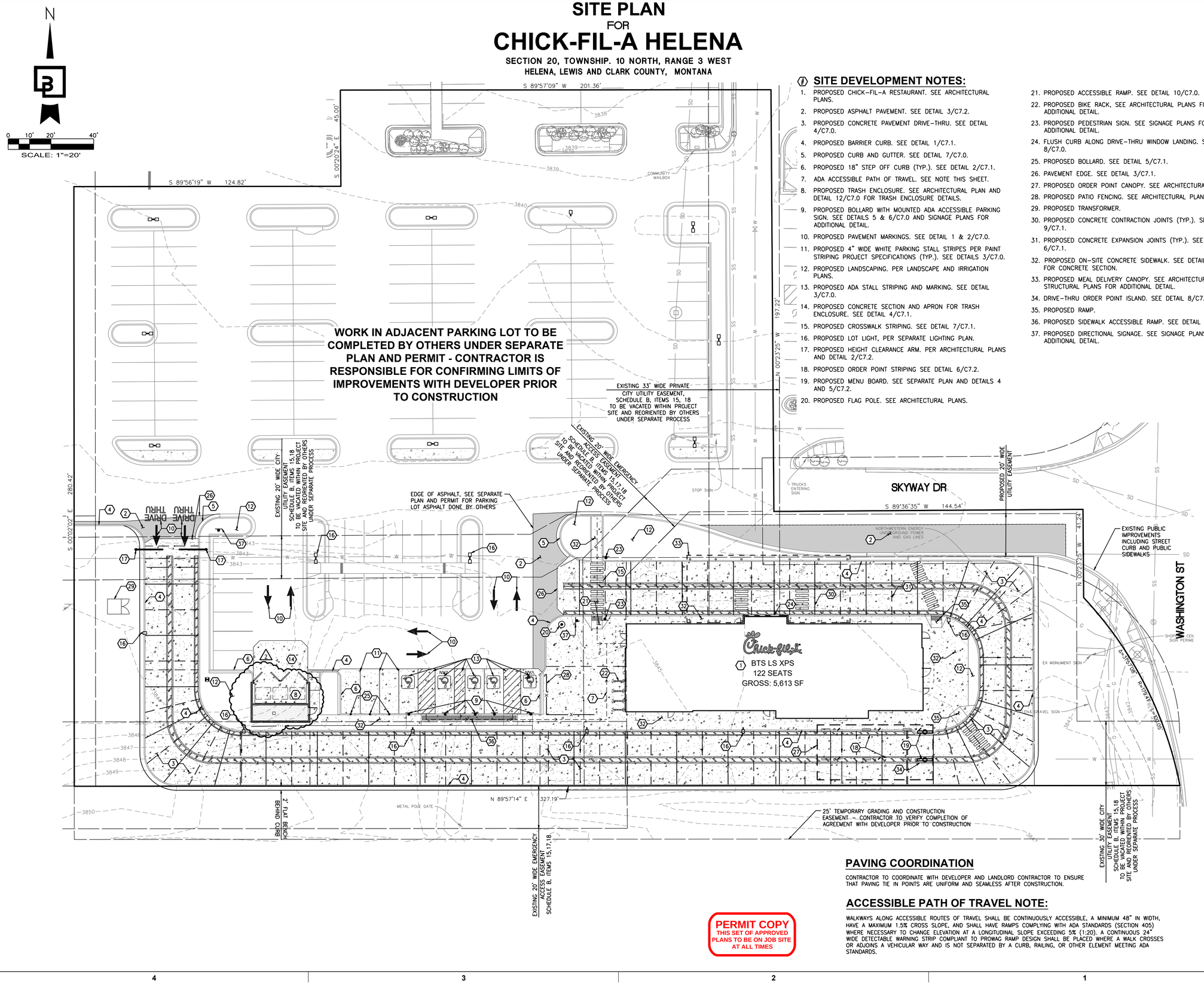
SITE PLAN
FOR
CHICK-FIL-A HELENA

SECTION 20, TOWNSHIP. 10 NORTH, RANGE 3 WEST
HELENA, LEWIS AND CLARK COUNTY, MONTANA



SITE DEVELOPMENT NOTES:

1. PROPOSED CHICK-FIL-A RESTAURANT. SEE ARCHITECTURAL PLANS.
2. PROPOSED ASPHALT PAVEMENT. SEE DETAIL 3/C7.2.
3. PROPOSED CONCRETE PAVEMENT DRIVE-THRU. SEE DETAIL 4/C7.0.
4. PROPOSED BARRIER CURB. SEE DETAIL 1/C7.1.
5. PROPOSED CURB AND GUTTER. SEE DETAIL 7/C7.0.
6. PROPOSED 18" STEP OFF CURB (TYP.). SEE DETAIL 2/C7.1.
7. ADA ACCESSIBLE PATH OF TRAVEL. SEE NOTE THIS SHEET.
8. PROPOSED TRASH ENCLOSURE. SEE ARCHITECTURAL PLAN AND DETAIL 12/C7.0 FOR TRASH ENCLOSURE DETAILS.
9. PROPOSED BOLLARD WITH MOUNTED ADA ACCESSIBLE PARKING SIGN. SEE DETAILS 5 & 6/C7.0 AND SIGNAGE PLANS FOR ADDITIONAL DETAIL.
10. PROPOSED PAVEMENT MARKINGS. SEE DETAIL 1 & 2/C7.0.
11. PROPOSED 4" WIDE WHITE PARKING STALL STRIPES PER PAINT STRIPING PROJECT SPECIFICATIONS (TYP.). SEE DETAILS 3/C7.0.
12. PROPOSED LANDSCAPING. PER LANDSCAPE AND IRRIGATION PLANS.
13. PROPOSED ADA STALL STRIPING AND MARKING. SEE DETAIL 3/C7.0.
14. PROPOSED CONCRETE SECTION AND APRON FOR TRASH ENCLOSURE. SEE DETAIL 4/C7.1.
15. PROPOSED CROSSWALK STRIPING. SEE DETAIL 7/C7.1.
16. PROPOSED LOT LIGHT, PER SEPARATE LIGHTING PLAN.
17. PROPOSED HEIGHT CLEARANCE ARM. PER ARCHITECTURAL PLANS AND DETAIL 2/C7.2.
18. PROPOSED ORDER POINT STRIPING SEE DETAIL 6/C7.2.
19. PROPOSED MENU BOARD. SEE SEPARATE PLAN AND DETAILS 4 AND 5/C7.2.
20. PROPOSED FLAG POLE. SEE ARCHITECTURAL PLANS.
21. PROPOSED ACCESSIBLE RAMP. SEE DETAIL 10/C7.0.
22. PROPOSED BIKE RACK, SEE ARCHITECTURAL PLANS FOR ADDITIONAL DETAIL.
23. PROPOSED PEDESTRIAN SIGN. SEE SIGNAGE PLANS FOR ADDITIONAL DETAIL.
24. FLUSH CURB ALONG DRIVE-THRU WINDOW LANDING. SEE DETAIL 8/C7.0.
25. PROPOSED BOLLARD. SEE DETAIL 5/C7.1.
26. PAVEMENT EDGE. SEE DETAIL 3/C7.1.
27. PROPOSED ORDER POINT CANOPY. SEE ARCHITECTURAL PLANS.
28. PROPOSED PATIO FENCING. SEE ARCHITECTURAL PLANS.
29. PROPOSED TRANSFORMER.
30. PROPOSED CONCRETE CONTRACTION JOINTS (TYP.). SEE DETAIL 9/C7.1.
31. PROPOSED CONCRETE EXPANSION JOINTS (TYP.). SEE DETAIL 6/C7.1.
32. PROPOSED ON-SITE CONCRETE SIDEWALK. SEE DETAIL 9/C7.0 FOR CONCRETE SECTION.
33. PROPOSED MEAL DELIVERY CANOPY. SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR ADDITIONAL DETAIL.
34. DRIVE-THRU ORDER POINT ISLAND. SEE DETAIL 8/C7.1.
35. PROPOSED RAMP.
36. PROPOSED SIDEWALK ACCESSIBLE RAMP. SEE DETAIL 11/C7.0.
37. PROPOSED DIRECTIONAL SIGNAGE. SEE SIGNAGE PLANS FOR ADDITIONAL DETAIL.

PAVING COORDINATION

CONTRACTOR TO COORDINATE WITH DEVELOPER AND LANDLORD CONTRACTOR TO ENSURE THAT PAVING TIE IN POINTS ARE UNIFORM AND SEAMLESS AFTER CONSTRUCTION.

ACCESSIBLE PATH OF TRAVEL NOTE:

WALKWAYS ALONG ACCESSIBLE ROUTES OF TRAVEL SHALL BE CONTINUOUSLY ACCESSIBLE, A MINIMUM 48" IN WIDTH, HAVE A MAXIMUM 1.5% CROSS SLOPE, AND SHALL HAVE RAMPS COMPLYING WITH ADA STANDARDS (SECTION 405) WHERE NECESSARY TO CHANGE ELEVATION AT A LONGITUDINAL SLOPE EXCEEDING 5% (1:20). A CONTINUOUS 24" WIDE DETECTABLE WARNING STRIP COMPLIANT TO PROWAG RAMP DESIGN SHALL BE PLACED WHERE A WALK CROSSES OR ADJOINS A VEHICULAR WAY AND IS NOT SEPARATED BY A CURB, RAILING, OR OTHER ELEMENT MEETING ADA STANDARDS.

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11/18/2025

CHICK-FIL-A
2770 N WASHINGTON ST
HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE:
RELEASE:

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	11/10/2025	DELIVERY PATH REVISION
2	11/17/2025	BUILDING FOOTPRINT AND TRASH REVISION

CONSULTANT PROJECT #	22725
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SHEET
SITE PLAN

SHEET NUMBER
C3.0

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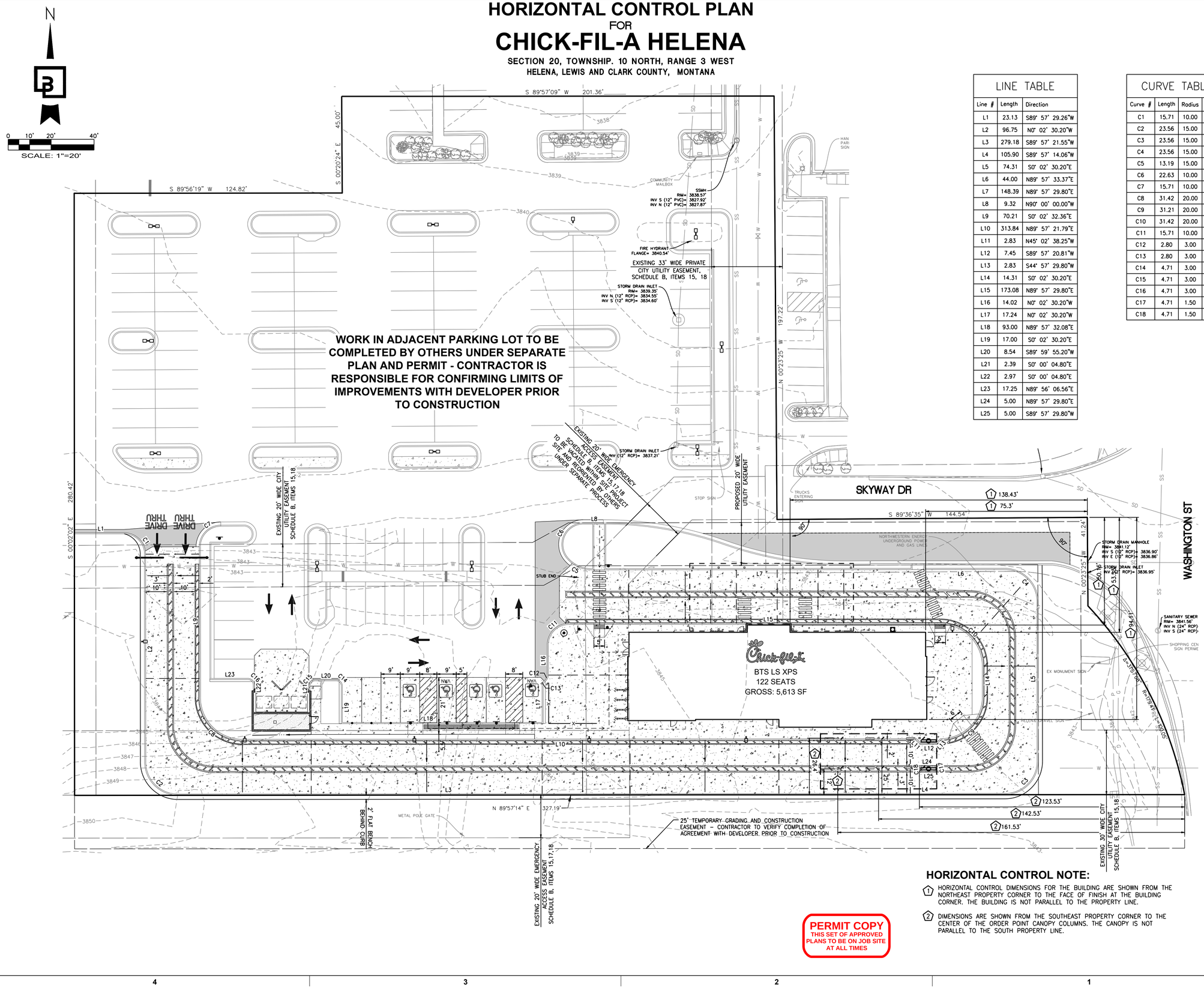
HORIZONTAL CONTROL PLAN
FOR
CHICK-FIL-A HELENA

SECTION 20, TOWNSHIP. 10 NORTH, RANGE 3 WEST
HELENA, LEWIS AND CLARK COUNTY, MONTANA



WORK IN ADJACENT PARKING LOT TO BE COMPLETED BY OTHERS UNDER SEPARATE PLAN AND PERMIT - CONTRACTOR IS RESPONSIBLE FOR CONFIRMING LIMITS OF IMPROVEMENTS WITH DEVELOPER PRIOR TO CONSTRUCTION

LINE TABLE		
Line #	Length	Direction
L1	23.13	S89° 57' 29.26"W
L2	96.75	N0° 02' 30.20"W
L3	279.18	S89° 57' 21.55"W
L4	105.90	S89° 57' 14.06"W
L5	74.31	S0° 02' 30.20"E
L6	44.00	N89° 57' 33.37"E
L7	148.39	N89° 57' 29.80"E
L8	9.32	N90° 00' 00.00"W
L9	70.21	S0° 02' 32.36"E
L10	313.84	N89° 57' 21.79"E
L11	2.83	N45° 02' 38.25"W
L12	7.45	S89° 57' 20.81"W
L13	2.83	S44° 57' 29.80"W
L14	14.31	S0° 02' 30.20"E
L15	173.08	N89° 57' 29.80"E
L16	14.02	N0° 02' 30.20"W
L17	17.24	N0° 02' 30.20"W
L18	93.00	N89° 57' 32.08"E
L19	17.00	S0° 02' 30.20"E
L20	8.54	S89° 59' 55.20"W
L21	2.39	S0° 00' 04.80"E
L22	2.97	S0° 00' 04.80"E
L23	17.25	N89° 56' 06.56"E
L24	5.00	N89° 57' 29.80"E
L25	5.00	S89° 57' 29.80"W

CURVE TABLE			
Curve #	Length	Radius	Delta
C1	15.71	10.00	90.00
C2	23.56	15.00	90.00
C3	23.56	15.00	90.00
C4	23.56	15.00	90.00
C5	13.19	15.00	50.40
C6	22.63	10.00	129.64
C7	15.71	10.00	90.00
C8	31.42	20.00	90.00
C9	31.21	20.00	89.40
C10	31.42	20.00	90.00
C11	15.71	10.00	90.00
C12	2.80	3.00	53.48
C13	2.80	3.00	53.48
C14	4.71	3.00	90.00
C15	4.71	3.00	90.00
C16	4.71	3.00	90.00
C17	4.71	1.50	180.00
C18	4.71	1.50	180.00

HORIZONTAL CONTROL NOTE:

1. HORIZONTAL CONTROL DIMENSIONS FOR THE BUILDING ARE SHOWN FROM THE NORTHEAST PROPERTY CORNER TO THE FACE OF FINISH AT THE BUILDING CORNER. THE BUILDING IS NOT PARALLEL TO THE PROPERTY LINE.
2. DIMENSIONS ARE SHOWN FROM THE SOUTHEAST PROPERTY CORNER TO THE CENTER OF THE ORDER POINT CANOPY COLUMNS. THE CANOPY IS NOT PARALLEL TO THE SOUTH PROPERTY LINE.

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11/18/2025

CHICK-FIL-A
2770 N
WASHINGTON ST
HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE:
RELEASE:

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	11/10/2025	DELIVERY PATH REVISION
2	11/17/2025	BUILDING FOOTPRINT AND TRASH REVISION

CONSULTANT PROJECT #	22725
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SHEET
HORIZONTAL CONTROL PLAN

SHEET NUMBER
C3.1

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GRADING PLAN - WEST
FOR
CHICK-FIL-A HELENA

SECTION 20, TOWNSHIP. 10 NORTH, RANGE 3 WEST
HELENA, LEWIS AND CLARK COUNTY, MONTANA

SPOT ELEVATION NOTES:

ALL SPOT ELEVATIONS SHOWN ARE TO FINISHED SURFACE (TOP OF ASPHALT OR TOP OF CONCRETE PAVEMENT) UNLESS OTHERWISE NOTED.

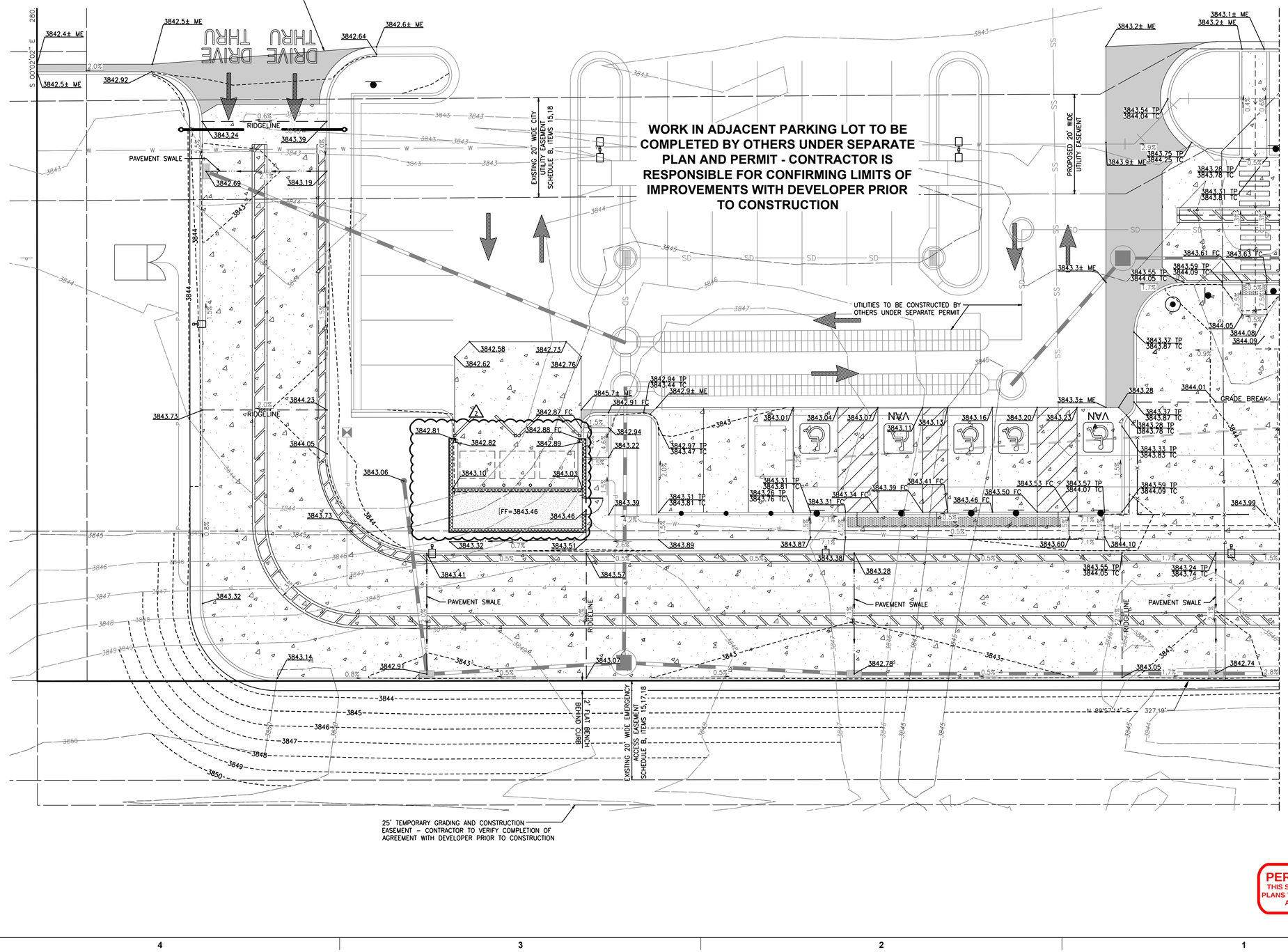
TP – TOP OF PAVEMENT ADJACENT TO CURB/SIDEWALK
TC – TOP OF CURB/SIDEWALK ADJACENT TO ASPHALT
FC – FLUSH CURBING ADJACENT TO PAVEMENT
ME – MATCH FINISHED DESIGN GRADES BY OTHERS

GRADING GENERAL NOTES:

1. ALL GRADING AND PUBLIC IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF THE CURRENT CITY ORDINANCE AND STANDARD PLANS. THE GRADING AND IMPROVEMENTS ARE SUBJECT TO THE OBSERVATION AND APPROVAL OF THE PUBLIC WORKS DEPARTMENT.
2. ALL SPOT ELEVATIONS SHOWN ARE TO FINISH SURFACE, UNLESS OTHERWISE NOTED. SEE SPOT ELEVATION NOTES THIS SHEET.
3. CONTRACTOR SHALL MATCH EXISTING ELEVATIONS AT ALL SAWCUT LOCATIONS.

N

0 5' 10' 20'
SCALE: 1"=10'



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11/18/2025

CHICK-FIL-A
2770 N WASHINGTON ST
HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE:
RELEASE:

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
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2	11/17/2025	BUILDING FOOTPRINT AND TRASH REVISION

CONSULTANT PROJECT #	22725
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SHEET
GRADING PLAN - WEST

SHEET NUMBER
C4.0

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GRADING PLAN - EAST
FOR
CHICK-FIL-A HELENA

SECTION 20, TOWNSHIP. 10 NORTH, RANGE 3 WEST
HELENA, LEWIS AND CLARK COUNTY, MONTANA

SPOT ELEVATION NOTES:

ALL SPOT ELEVATIONS SHOWN ARE TO FINISHED SURFACE (TOP OF ASPHALT OR TOP OF CONCRETE PAVEMENT) UNLESS OTHERWISE NOTED.

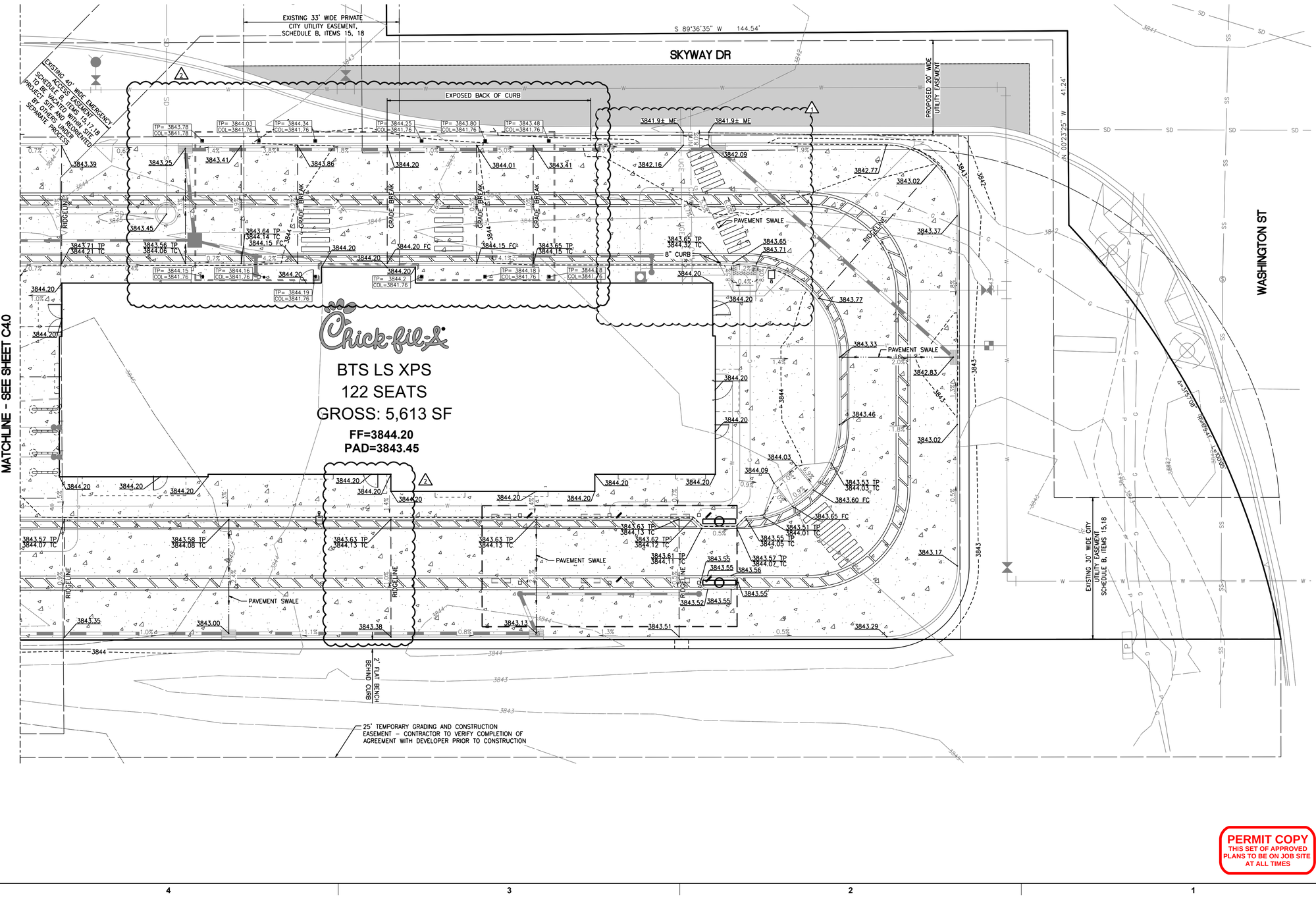
TP – TOP OF PAVEMENT ADJACENT TO CURB/SIDEWALK
TC – TOP OF CURB/SIDEWALK ADJACENT TO ASPHALT
FC – FLUSH CURBING ADJACENT TO PAVEMENT
ME – MATCH FINISHED DESIGN GRADES BY OTHERS

GRADING GENERAL NOTES:

1. ALL GRADING AND PUBLIC IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF THE CURRENT CITY ORDINANCE AND STANDARD PLANS. THE GRADING AND IMPROVEMENTS ARE SUBJECT TO THE OBSERVATION AND APPROVAL OF THE PUBLIC WORKS DEPARTMENT.
2. ALL SPOT ELEVATIONS SHOWN ARE TO FINISH SURFACE, UNLESS OTHERWISE NOTED. SEE SPOT ELEVATION NOTES THIS SHEET.
3. CONTRACTOR SHALL MATCH EXISTING ELEVATIONS AT ALL SAWCUT LOCATIONS.

N

0 5' 10' 20'
SCALE: 1"=10'



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SHEET
GRADING PLAN - EAST

SHEET NUMBER
C4.1

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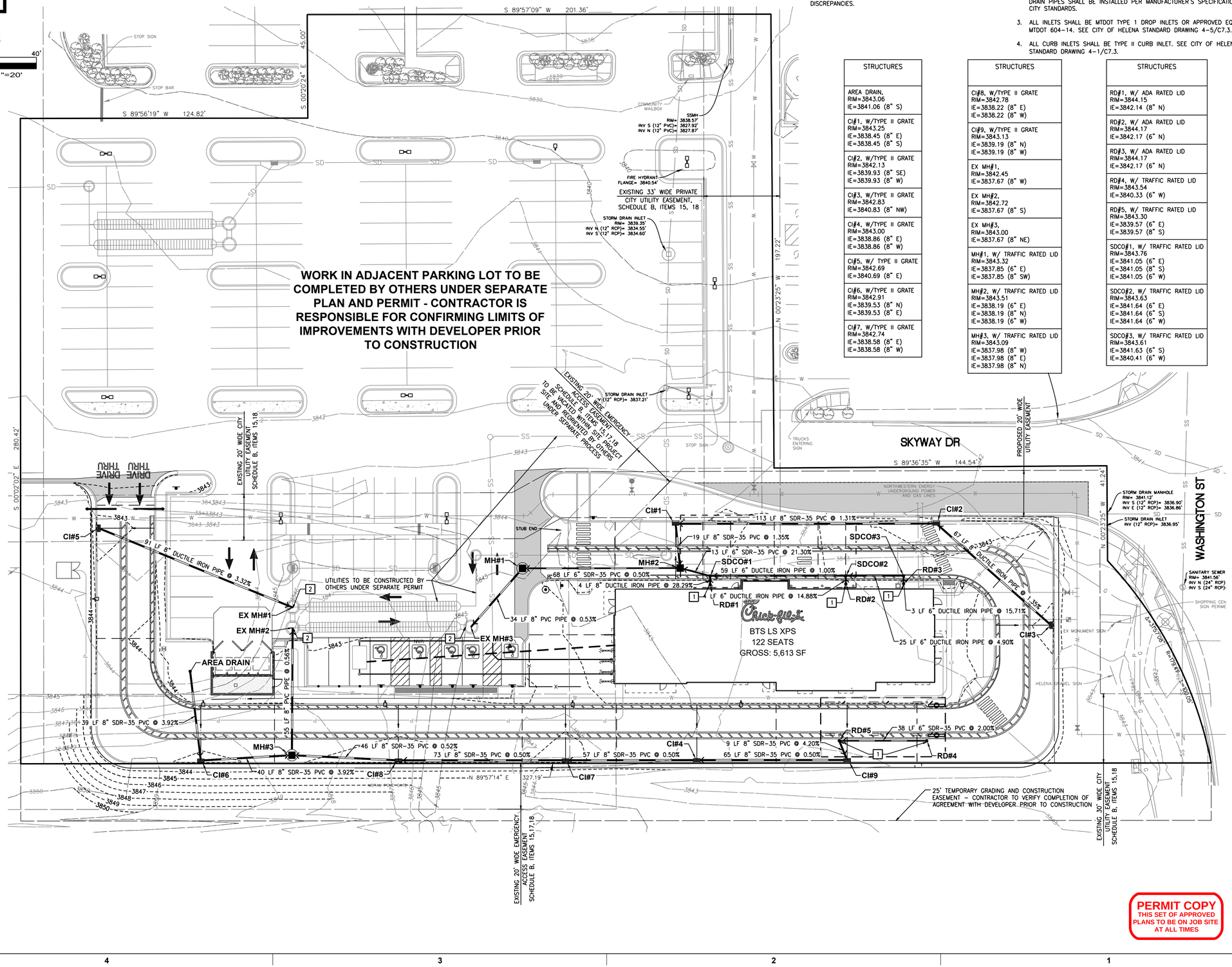
DRAINAGE PLAN
FOR
CHICK-FIL-A HELENA
SECTION 20, TOWNSHIP. 10 NORTH, RANGE 3 WEST
HELENA, LEWIS AND CLARK COUNTY, MONTANA

N

0 10' 20' 40'
SCALE: 1"=20'



DRAINAGE KEYNOTE

1. CONNECTION FOR ROOF DRAIN. CONFIRM DOWNSPOUT LOCATIONS AND TIE-IN POINTS WITH PLUMBING PLANS. SEE BUILDING DOWNSPOUT DETAIL 10/C7.1.
2. CONTRACTOR TO POTHOLE AND CONFIRM ELEVATION OF PIPE AT PROPOSED CONNECTION POINT PRIOR TO CONSTRUCTION. CONTRACTOR TO NOTIFY BARGHAUSEN IMMEDIATELY OF ANY DISCREPANCIES.

STORM DRAIN GENERAL NOTES:

1. ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF THE CURRENT CITY ORDINANCE AND STANDARD PLANS. THE IMPROVEMENTS ARE SUBJECT TO THE OBSERVATION AND APPROVAL OF THE PUBLIC WORKS DEPARTMENT.
2. ALL STORM DRAIN LINES SHALL BE PVC SDR-35 UNLESS OTHERWISE NOTED. DRAIN PIPING LABELED DI SHALL BE CLASS 52 DUCTILE IRON PIPE. ALL STORM DRAIN PIPES SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND CITY STANDARDS.
3. ALL INLETS SHALL BE MTDOT TYPE 1 DROP INLETS OR APPROVED EQUAL MTDOT 604-14. SEE CITY OF HELENA STANDARD DRAWING 4-5/C7.3.
4. ALL CURB INLETS SHALL BE TYPE II CURB INLET. SEE CITY OF HELENA STANDARD DRAWING 4-1/C7.3.

STRUCTURES
AREA DRAIN, RIM=3843.06 IE=3841.06 (8" S)
CI#1, W/TYPE II GRATE RIM=3843.25 IE=3838.45 (8" E) IE=3838.45 (8" S)
CI#2, W/TYPE II GRATE RIM=3842.13 IE=3839.93 (8" SE) IE=3839.93 (8" W)
CI#3, W/TYPE II GRATE RIM=3842.83 IE=3840.83 (8" NW)
CI#4, W/TYPE II GRATE RIM=3843.00 IE=3838.86 (8" E) IE=3838.86 (8" W)
CI#5, W/ TYPE II GRATE RIM=3842.69 IE=3840.69 (8" E)
CI#6, W/TYPE II GRATE RIM=3842.91 IE=3839.53 (8" N) IE=3839.53 (8" E)
CI#7, W/TYPE II GRATE RIM=3842.74 IE=3838.58 (8" E) IE=3838.58 (8" W)

STRUCTURES
CI#8, W/TYPE II GRATE RIM=3842.78 IE=3838.22 (8" E) IE=3838.22 (8" W)
CI#9, W/TYPE II GRATE RIM=3843.13 IE=3839.19 (8" N) IE=3839.19 (8" W)
EX MH#1, RIM=3842.45 IE=3837.67 (8" W)
EX MH#2, RIM=3842.72 IE=3837.67 (8" S)
EX MH#3, RIM=3843.00 IE=3837.67 (8" NE)
MH#1, W/ TRAFFIC RATED LID RIM=3843.32 IE=3837.85 (6" E) IE=3837.85 (8" SW)
MH#2, W/ TRAFFIC RATED LID RIM=3843.51 IE=3838.19 (6" E) IE=3838.19 (8" N) IE=3838.19 (6" W)
MH#3, W/ TRAFFIC RATED LID RIM=3843.09 IE=3837.98 (8" W) IE=3837.98 (8" E) IE=3837.98 (8" N)

STRUCTURES
RD#1, W/ ADA RATED LID RIM=3844.15 IE=3842.14 (8" N)
RD#2, W/ ADA RATED LID RIM=3844.17 IE=3842.17 (6" N)
RD#3, W/ ADA RATED LID RIM=3844.17 IE=3842.17 (6" N)
RD#4, W/ TRAFFIC RATED LID RIM=3843.54 IE=3840.33 (6" W)
RD#5, W/ TRAFFIC RATED LID RIM=3843.30 IE=3839.57 (6" E) IE=3839.57 (8" S)
SDCO#1, W/ TRAFFIC RATED LID RIM=3843.76 IE=3841.05 (6" E) IE=3841.05 (8" S) IE=3841.05 (6" W)
SDCO#2, W/ TRAFFIC RATED LID RIM=3843.63 IE=3841.64 (6" E) IE=3841.64 (6" S) IE=3841.64 (6" W)
SDCO#3, W/ TRAFFIC RATED LID RIM=3843.61 IE=3841.63 (6" S) IE=3840.41 (6" W)

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11/18/2025

CHICK-FIL-A
2770 N WASHINGTON ST
HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE:
RELEASE:

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	11/10/2025	DELIVERY PATH REVISION
2	11/17/2025	BUILDING FOOTPRINT AND TRASH REVISION

CONSULTANT PROJECT #	22725
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DATE	11/18/25
DRAWN BY	CJC

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SHEET
DRAINAGE PLAN

SHEET NUMBER
C5.0

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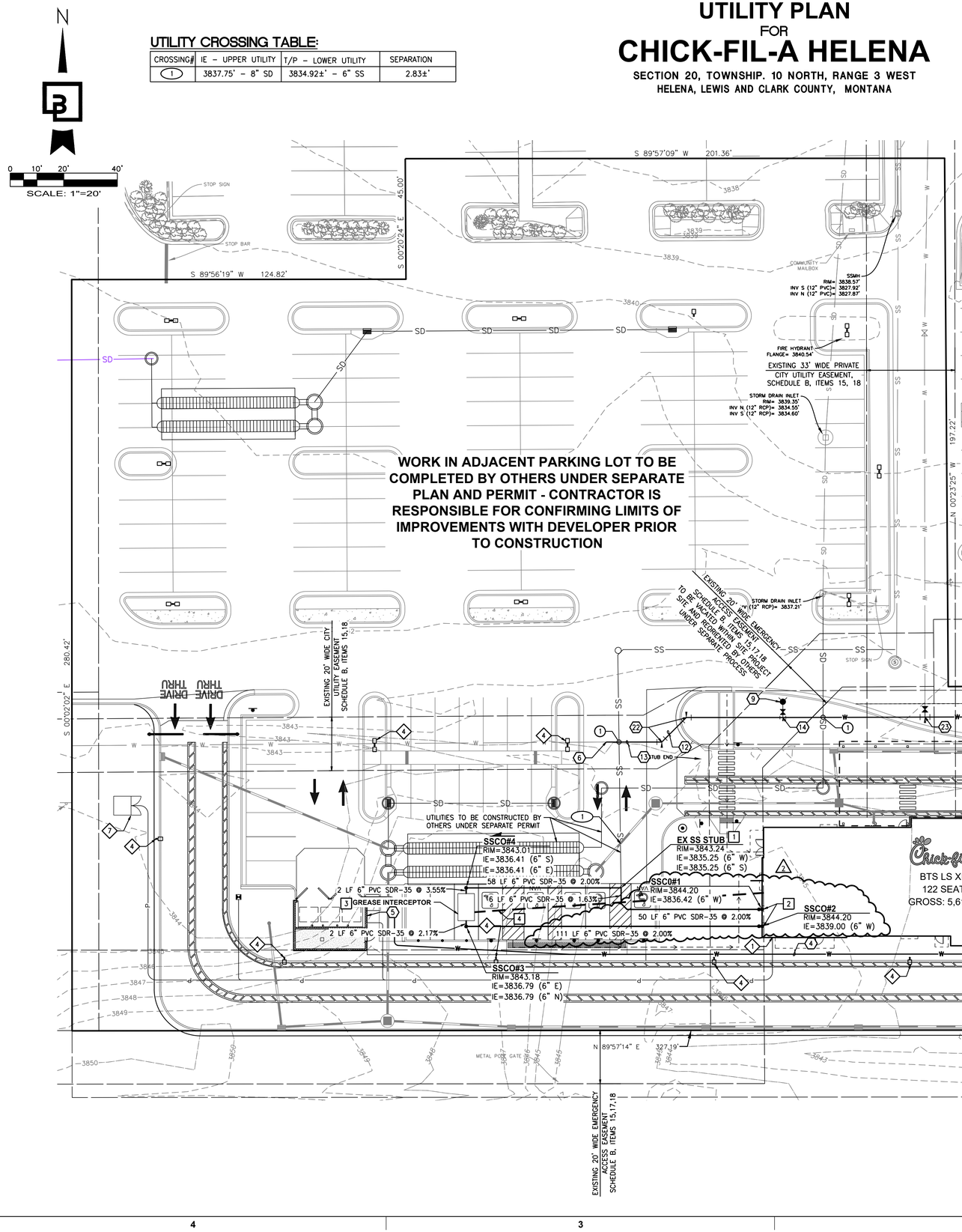
UTILITY PLAN
FOR
CHICK-FIL-A HELENA
SECTION 20, TOWNSHIP. 10 NORTH, RANGE 3 WEST
HELENA, LEWIS AND CLARK COUNTY, MONTANA

UTILITY CROSSING TABLE:

CROSSING#	IE – UPPER UTILITY	T/P – LOWER UTILITY	SEPARATION
1	3837.75' – 8" SD	3834.92±' – 6" SS	2.83±'



1 SEWER STRUCTURE NOTES:

1. CONNECT TO EXISTING STUB PER SEPARATE PLAN AND PERMIT COMPLETED BY OTHERS.
2. SANITARY SEWER CONNECTION TO BUILDING. COORDINATE WITH PLUMBING PLANS FOR DEPTH AND LOCATION. SEE DETAIL 1/C7.2.
3. NEW 1,500 GALLON PRECAST GREASE INTERCEPTOR OLD CASTLE MODEL GT-1500 (OR APPROVED EQUAL), W/ BAFFLE AND ADA RATED TRAFFIC LIDS AND 3" INVERT OUTLET DROP PER GREASE INTERCEPTOR DETAIL 7/C7.2
   RIM=3843.12
   IE=3836.49 (6" N)
   IE=3836.74 (6" S)
4. PROPOSED SANITARY SEWER VENT LINES TO BUILDING. SEE MEP PLANS FOR DETAILS.

1 UTILITY NOTE:

THE CIRCLED LOCATIONS ARE REQUIRED TO BE POTHOLED TO CONFIRM WHETHER OR NOT UTILITY CONFLICTS NEED TO BE RESOLVED. POTHOLING SHOULD OCCUR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. OF ANY CONFLICTS.

1 DRY UTILITIES CONSTRUCTION NOTES:

1. POWER LINE CONNECTION TO BUILDING. APPROXIMATE LOCATION OF POWER SERVICE TO BUILDING. COORDINATE CONDUIT SIZE, METER LOCATION AND CONTRACTOR SCOPE OF WORK WITH PURVEYOR AND MEP PLANS PRIOR TO CONSTRUCTION.
2. THREE 2" TELEPHONE SERVICE ENTRANCE CONDUIT(S). EXTEND WITH PULL STRING FROM TELEPHONE SERVICE J-BOX TO UTILITY SOURCE. SEE PURVEYOR DESIGN FOR MORE INFORMATION.
3. APPROXIMATE CONNECTION FOR GAS SERVICE. CONFIRM SIZE, LOCATION, AND CONTRACTOR SCOPE OF WORK WITH PURVEYOR PRIOR TO CONSTRUCTION.
4. PROPOSED LOT LIGHT LOCATION. CONTRACTOR TO SEE ELECTRICAL SITE PLAN FOR ADDITIONAL DETAILS.
5. APPROXIMATE CANOPY CONNECTION FOR GAS/POWER SERVICE. CONFIRM SIZE, LOCATION, AND CONTRACTOR SCOPE OF WORK WITH PURVEYOR AND CANOPY PLANS PRIOR TO CONSTRUCTION.
6. CONNECT TO EXISTING STUB PER SEPARATE PLAN AND PERMIT COMPLETED BY OTHERS.
7. APPROXIMATE LOCATION OF PROPOSED POWER TRANSFORMER AND POWER SERVICE LINE. CONTRACTOR IS RESPONSIBLE FOR DIRT WORK, CONDUIT PLACEMENT, AND BACKFILL. CONTRACTOR TO CONFIRM SCOPE OF WORK, MATERIALS, AND FINAL LOCATION WITH PURVEYOR.
8. PROPOSED CONNECTION TO EXISTING GAS LINE.

1 WATER STRUCTURE TABLE

1. APPROXIMATE LOCATION OF 2" WATER SERVICE CONNECTION TO BUILDING. METER AND BACKFLOW DEVICES ARE LOCATED INSIDE THE BUILDING. CONTRACTOR TO CONFIRM EXACT LOCATION INSIDE BUILDING WITH PLUMBING PLANS PRIOR TO CONSTRUCTION.
2. APPROXIMATE LOCATION OF FIRE SERVICE CONNECTION TO BUILDING. BACKFLOW PROTECTION IS LOCATED INSIDE THE BUILDING. CONTRACTOR TO COORDINATE WITH PLUMBING PLAN FOR EXACT LOCATION AND SPECIFICATIONS.
3. APPROXIMATE LOCATION OF WATER SERVICE FROM BUILDING TO TRASH ENCLOSURE. BACKFLOW PROVIDED IN BUILDING PRIOR TO EXITING TO PIPE FOR TRASH ENCLOSURE. COORDINATE WITH PLUMBING PLAN PRIOR TO CONSTRUCTION FOR EXACT LOCATION AND SPECIFICATION.
4. 343 LF OF 3/4" TYPE K COPPER TUBING TO TRASH ENCLOSURE.
5. APPROXIMATE LOCATION OF WATER SERVICE CONNECTION TO TRASH ENCLOSURE. COORDINATE WITH PLUMBING PLAN FOR EXACT LOCATION.
6. CONNECT TO EXISTING WATER MAIN. CONTRACTOR TO NOTIFY CITY AT LEAST 24 HOURS PRIOR. CONTRACTOR TO COORDINATE ANY ADDITIONAL REQUIREMENTS WITH INSPECTOR PRIOR TO CONSTRUCTION.
7. INSTALL 61 LF 2" TYPE K COPPER PIPE TO BUILDING FROM MAIN FOR DOMESTIC SERVICE. METER AND BACKFLOW DEVICES ARE LOCATED INSIDE THE BUILDING. CONTRACTOR TO SOORDINATE EXACT LOCATION WITH PLUMBING PLANS PRIOR TO CONSTRUCTION.
8. 61 LF 6" CL52 DI.
9. APPROXIMATE LOCATION OF PROPOSED FIRE HYDRANT AND CONNECTION PER CITY OF HELENA STANDARD DRAWING 2-2/C7.3.
10. 105 LF 16" CL52 DI.
11. 229 LF 16" CL52 DI.
12. 13 LF 16" CL52 DI.
13. 21 LF 16" CL52 DI.
14. INSTALL 16"x6" TEE (MJxFL) WITH THRUST BLOCK AND 6" VALVE (FLxMJ). CONTRACTOR TO COORDINATE ANY ADDITIONAL REQUIREMENTS WITH INSPECTOR PRIOR TO CONSTRUCTION.
15. TAP PROPOSED MAIN FOR 2" WATER SERVICE. CONTRACTOR TO SUPPLY TAPPING SADDLE AND CORPORATION VALVE. CONTRACTOR TO COORDINATE ANY ADDITIONAL REQUIREMENTS WITH INSPECTOR PRIOR TO CONSTRUCTION.
16. INSTALL 2" CURB BOX PER CITY OF HELENA STANDARD 2.5.3 AND BLUE PAINTED MARKER PER HELENA STANDARD DRAWING 2-3/C7.3.
17. INSTALL FDC PER HELENA PUBLIC UTILITIES STANDARDS.
18. INSTALL 90° BEND (MJ) WITH THRUST BLOCKING.
19. INSTALL 10 LF 6" CL52 D.I.
20. INSTALL 53 LF 6" CL52 D.I.
21. APPROXIMATE LOCATION OF WATER SERVICE CONNECTION TO FDC. COORDINATE FINAL LOCATION WITH PLUMBING PLAN.
22. INSTALL 45° BEND (MJ) WITH THRUST BLOCKING.
23. INSTALL 16"X8" TEE (MJXFL) WITH THRUST BLOCK AND 8" VALVE (FLXMJ). CONTRACTOR TO COORDINATE ANY ADDITIONAL REQUIREMENTS WITH INSPECTOR PRIOR TO CONSTRUCTION.

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CHICK-FIL-A
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FSR#05484

BUILDING TYPE / SIZE:
RELEASE:

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	11/10/2025	DELIVERY PATH REVISION
2	11/17/2025	BUILDING FOOTPRINT AND TRASH REVISION

CONSULTANT PROJECT #	22725
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SHEET
UTILITY PLAN

SHEET NUMBER
C6.0

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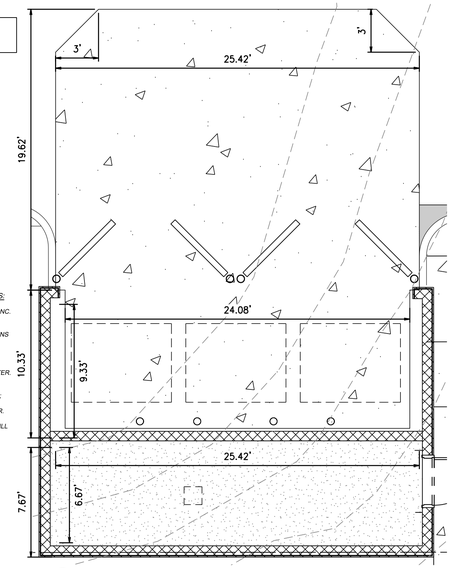
CFA DETAILS
FOR
CHICK-FIL-A HELENA
SECTION 20, TOWNSHIP. 10 NORTH, RANGE 3 WEST
HELENA, LEWIS AND CLARK COUNTY, MONTANA

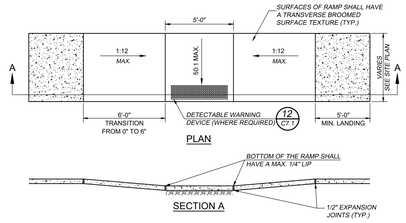
GEOTECHNICAL ENGINEERING REPORT
JOB NUMBER: C4235014
DATE: APRIL 27, 2023



REFUSE ENCLOSURE PLAN NOTES:

1. SEE SITE PLAN FOR LAYOUT OF CONC. LOADING PAD.
2. SEE GRADING PLAN FOR ELEVATIONS ON DUMPSTER PAD & DRAINAGE OF INTERIOR TRASH ENCLOSURE.
3. PROVIDE POSITIVE DRAINAGE ON APPROACH PAD AWAY FROM DUMPSTER.
4. SEE ARCHITECTURAL PLANS FOR ADDITIONAL DETAILS ON ENCLOSURE; COORDINATE & VERIFY SIZE WITH ARCHITECT & STRUCTURAL ENGINEER.
5. GENERAL CONTRACTOR SHALL DRILL HOLES FOR GATE PINS IN BOTH THE OPEN & CLOSED POSITION.

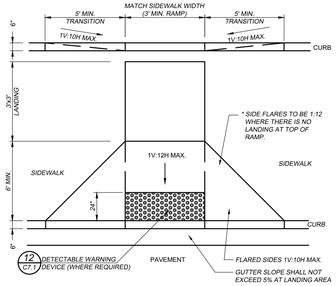
12 C7.0 SCREENED REFUSE ENCLOSURE
NOT TO SCALE



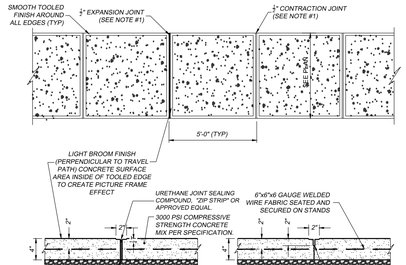
NOTES:
1. THE SURFACE OF THE RAMP SHALL HAVE DETECTABLE WARNINGS AS SHOWN. DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES. SEE DETECTABLE WARNINGS DETAIL.
2. CONSTRUCT PER A.D.A. STANDARDS.
3. REFER TO PLANS FOR ADJACENT SLOPES.
4. THE CROSS SLOPE OF THE RAMP SURFACE SHALL BE NO GREATER THAN 1:50.
5. CONSTRUCTION OF THE RAMP SHALL MATCH ADJOINING SIDEWALK DETAIL.
6. CONCRETE SHALL BE P.C.C. 3500 PSI.

11 C7.0 SIDEWALK ACCESSIBLE RAMP
NOT TO SCALE

CIVIL TO VERIFY RAMP REQUIREMENTS BY STATE.

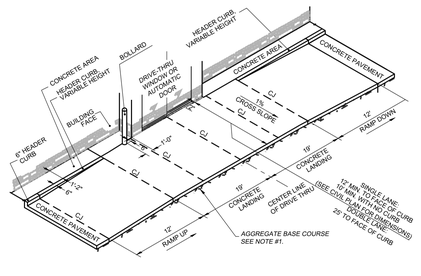


10 C7.0 CURB RAMP w/ FLARED SIDES
NOT TO SCALE



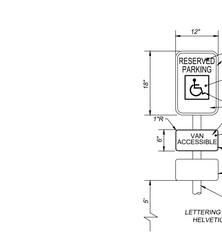
NOTES:
1. JOINTS AT 5'-0" O.C. TOOLED ½" WIDE, 1" DEEP OR MAX. ¼ DEEP WHICHEVER IS GREATER. EXPANSION JOINTS AT 20' MAX. & ALL P.C.s, UNLESS APPROVED OR INDICATED OTHERWISE ON PLAN VIEW JOINT PATTERN.

9 C7.0 CONCRETE SIDEWALK
NOT TO SCALE



NOTE:
1. GENERAL CONTRACTOR SHALL REFERENCE GEOTECHNICAL REPORT FOR PAVEMENT SECTION REQUIREMENTS.
2. FOR LC FOOTPRINT DECREASE LANDING FROM 38' TO 30'. LANDING SHOULD REMAIN CENTERED ON DRIVE-THRU WINDOW.

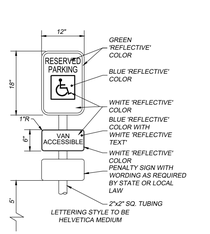
8 C7.0 DRIVE-THRU ISOMETRIC
NOT TO SCALE



TYPE "B" CURB & GUTTER

NOTES:
1. CONC. FOR CURBING SHALL HAVE A MIN. COMPRESSIVE STRENGTH OF 3,500 PSI @ 28 DAYS
2. CONTRACTION JOINTS @ 1'-0" O.C. TOOLED ¼" (± ⅛"- 0) WIDE, 1" OR MAX. D/4 DEPTH WHICHEVER IS GREATER. EXPANSION JOINTS @ 40'-0" MAX. UNLESS NOTED OTHERWISE ON PLANS
3. IF NEEDED, DOWEL INTO ADJACENT CONC. SLAB PER THE EXPANSION JOINT DETAIL.
4. GUTTER SLOPE TO MATCH ADJACENT PAVEMENT, TRAVERSE & LONGITUDINAL.

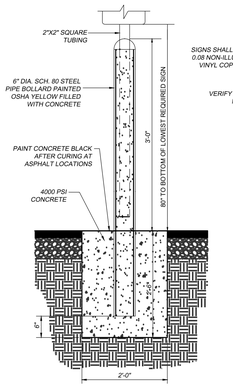
7 C7.0 CONCRETE CURB & GUTTER
NOT TO SCALE



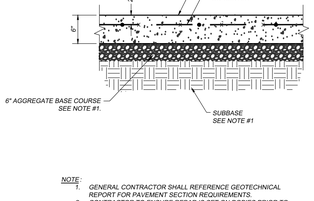
ACCESSIBLE PARKING SIGN
(MUTCD R 7-8 AND R 7-8P5)

(CIVIL TO VERIFY SIGN PANELS AND COLORS WITH STATE/LOCAL REQUIREMENTS)

6 C7.0 ACCESIBLE PARKING SIGN
NOT TO SCALE

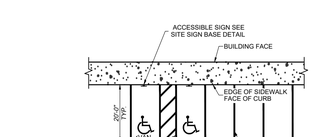


5 C7.0 BOLLARD MOUNTED SIGN
NOT TO SCALE



NOTE:
1. GENERAL CONTRACTOR SHALL REFERENCE GEOTECHNICAL REPORT FOR PAVEMENT SECTION REQUIREMENTS.
2. CONTRACTOR TO ENSURE REBAR IS SET ON DOBIES PRIOR TO POUR.

4 C7.0 CONCRETE PAVEMENT DRIVE-THRU LANE
NOT TO SCALE

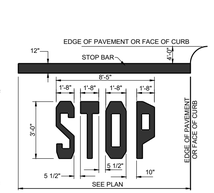


NOTES
1. ACCESSIBLE PARKING AND ACCESSIBLE AISLES SHALL NOT EXCEED 2% IN SLOPE IN ANY DIRECTION. IF ONLY ONE ACCESS ISLE IS INSTALLED, IT IS TO BE A VAN SIZE.
2. PARKING STALL DIMENSIONING SHALL BE IN ACCORDANCE WITH APPLICABLE GOVERNING AUTHORITIES & ADA STANDARDS. SEE SITE PLAN FOR COMPLETE STRIPING LAYOUT.
3. GENERAL CONTRACTOR SHALL REFER TO PARKING LOT STRIPING SPECIFICATIONS.
4. CONTRACTOR SHALL USE 4" WIDE WHITE REFLECTIVE PAINT FOR STRIPING ON ASPHALT PARKING LOTS.
5. CONTRACTOR SHALL USE 4" WIDE YELLOW REFLECTIVE PAINT FOR STRIPING ON CONCRETE PARKING LOTS.
6. NO WHEEL STOPS TO BE INSTALLED WHEN PARKING IS ADJACENT TO SIDEWALK.
7. ADA SIGNS IN BOLLARDS AND BOLLARDS SHALL BE INSTALLED WHEN PARKING IS ADJACENT TO FLUSH CURB OR A RAMP.
8. ALL DIMENSIONS ARE TO CENTERLINE OF STRIPE UNLESS NOTED OTHERWISE.
9. STRIPING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR

3 C7.0 90° PARKING STRIPING
NOT TO SCALE

DRIVE-THRU

NOT TO SCALE

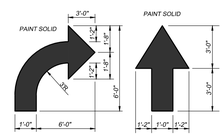


STOP BAR

NOT TO SCALE

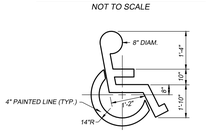
NOTES:
1. GENERAL CONTRACTOR SHALL REFER TO PARKING LOT STRIPING SPECIFICATIONS, SEE DETAIL
2. PAVEMENT MARKINGS SHALL BE APPLIED ACCORDING TO REQUIREMENTS AS OUTLINED IN SECTION 3B OF THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
3. CONTRACTOR SHALL USE WHITE REFLECTIVE PAINT ON ASPHALT & YELLOW REFLECTIVE PAINT ON CONCRETE, UNLESS UPON VERIFICATION BY THE GENERAL CONTRACTOR IT IS DETERMINED THAT LOCAL, STATE, OR ADA CODES DIFFER, IN WHICH CASE THESE CODES SHALL GOVERN.
4. IF STOP SIGNS ARE PROPOSED, "STOP" LETTERING ON STOP BAR DETAIL IS NOT REQUIRED.

2 C7.0 PAVEMENT MARKINGS - 2
NOT TO SCALE



DIRECTIONAL ARROW

NOT TO SCALE



ACCESSIBILITY SYMBOL

NOT TO SCALE

NOTES:
1. GENERAL CONTRACTOR SHALL REFER TO PARKING LOT STRIPING SPECIFICATIONS, SEE DETAIL
2. PAVEMENT MARKINGS SHALL BE APPLIED ACCORDING TO REQUIREMENTS AS OUTLINED IN SECTION 3B OF THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
3. CONTRACTOR SHALL USE WHITE REFLECTIVE PAINT ON ASPHALT & YELLOW REFLECTIVE PAINT ON CONCRETE, UNLESS UPON VERIFICATION BY THE GENERAL CONTRACTOR IT IS DETERMINED THAT LOCAL, STATE, OR ADA CODES DIFFER, IN WHICH CASE THESE CODES SHALL GOVERN.

1 C7.0 PAVEMENT MARKINGS - 1
NOT TO SCALE

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11/18/2025

CHICK-FIL-A
2770 N WASHINGTON ST
HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE:
RELEASE:

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	11/10/2025	DELIVERY PATH REVISION
2	11/17/2025	BUILDING FOOTPRINT AND TRASH REVISION

CONSULTANT PROJECT #	22725
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DRAWN BY	CJC

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SHEET
CFA DETAILS

SHEET NUMBER
C7.0

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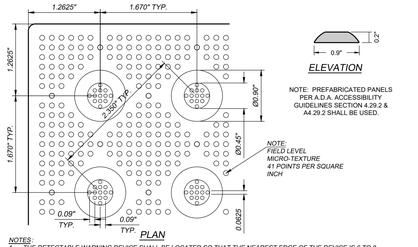
GEOTECHNICAL ENGINEERING REPORT
JOB NUMBER: C4235014
DATE: APRIL 27, 2023

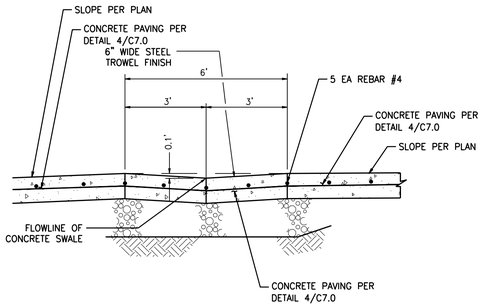
CFA DETAILS
FOR
CHICK-FIL-A HELENA

SECTION 20, TOWNSHIP. 10 NORTH, RANGE 3 WEST
HELENA, LEWIS AND CLARK COUNTY, MONTANA

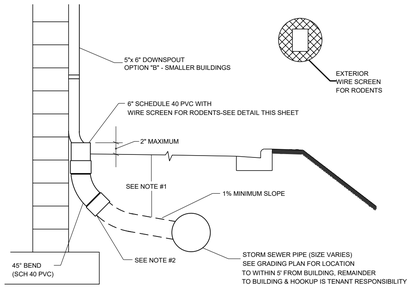


NOTES:
1. THE DETECTABLE WARNING DEVICE SHALL BE LOCATED SO THAT THE NEAREST EDGE OF THE DEVICE IS 6 TO 8 INCHES FROM THE FACE OF CURB LINE.
2. DETECTABLE WARNING DEVICE SHALL BE 24 INCHES IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE RAMP OR FLUSH SRUFACE.
3. DETECTABLE WARNING SURFACES SHALL BE CONSTRUCTED BY TEXTURING PRODUCTS CONFORMING TO PROWAG R304. TRANSITION SLOPES ARE NOT TO HAVE DETECTABLE WARNINGS. CONTRACTOR SHALL CONFIRM LOCAL CODES ARE MET.
4. WHERE A CURB RAMP IS CONSTRUCTED WITHIN AN EXISTING CURB, CURB & GUTTER AND/OR SIDEWALK, THE EXISTING CURB & GUTTER SHALL BE REMOVED TO THE NEAREST JOINT BEYOND THE CURB TRANSITIONS OR TO THE EXTENT THAT NO REMAINING SECTION OF CURB OR CURB & GUTTER IS LESS THAN 5' LONG. THE EXISTING SIDEWALK SHALL BE REMOVED TO THE NEAREST JOINT BEYOND THE TRANSITION SLOPE WALK AROUND OR TO THE EXTENT THAT NO REMAINING SECTION OF SIDEWALK IS LESS THAN 5'.
5. THE PLAN MUST PROVIDE FOR DETECTABLE WARNING SURFACE COLORS OR MATERIALS THAT PROVIDE THE NECESSARY CONTRAST, EITHER DARK-ON-LIGHT, OR LIGHT-ON-DARK. STANDARD DOME COLOR IS BRICK RED.
6. TRUNCATED DOMES TO BE INSTALLED USING ARMOR TILE CAST IN PLACE DOME TACTILE TILE. PART NUMBER ADA-2424 OR OTHER EQUIVALENT APPROVED MATERIAL. PREFERRED MANUFACTURER ARMOR TILE TACTILE SYSTEMS LANCE MITCHELL(919)422-4615 UNLESS PAVERS ARE REQUIRED. CONTRACTOR TO VERIFY THAT CURB RAMPS MEET LOCAL CODES AND ADA REQUIREMENTS.

12 C7.1 *DETECTABLE WARNING DEVICE*
NOT TO SCALE

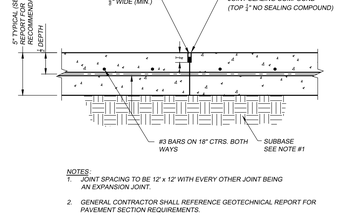


11 C7.1 *CONCRETE SWALE*
NOT TO SCALE



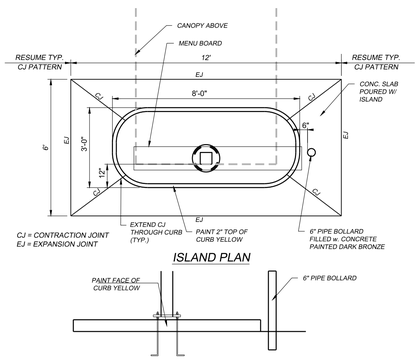
NOTES:
1. FOR ALL DEPTHS OF COVER LESS THAN TWO (2) FEET, PIPE MUST BE SCHEDULE 40 PVC. FOR DEPTHS OF COVER GREATER THAN TWO (2) FEET, FLEXIBLE PIPE MAY BE USED. REFER TO SPECIFICATIONS FOR ALLOWABLE PIPE TYPES.
2. A WATERTIGHT CONNECTION SHALL BE MAINTAINED WITH ANY TRANSITION FROM SCHEDULE 40 PVC PIPE TO ANY OTHER PIPE TYPE.
3. THE DOWNSPOUT COLLECTOR DRAIN SHALL BE INSTALLED BEFORE THE DOWNSPOUTS ARE INSTALLED ON THE BUILDING. SITEWORK CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK INCLUDING THE RODENT SCREEN. BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONNECTION AT THE POINT OF THE RODENT SCREEN.

10 C7.1 *BUILDING DOWNSPOUT CONNECTION*
NOT TO SCALE

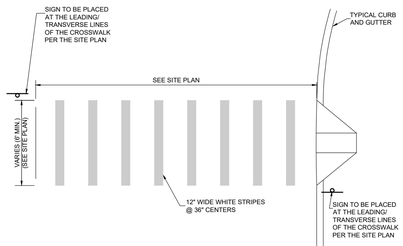


NOTES:
1. JOINT SPACING TO BE 12' x 12' WITH EVERY OTHER JOINT BEING AN EXPANSION JOINT.
2. GENERAL CONTRACTOR SHALL REFERENCE GEOTECHNICAL REPORT FOR PAVEMENT SECTION REQUIREMENTS.

9 C7.1 *CONTRACTION JOINT*
NOT TO SCALE

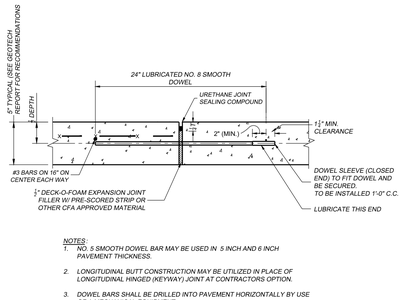


8 C7.1 *DRIVE-THRU ORDER POINT ISLAND*
NOT TO SCALE



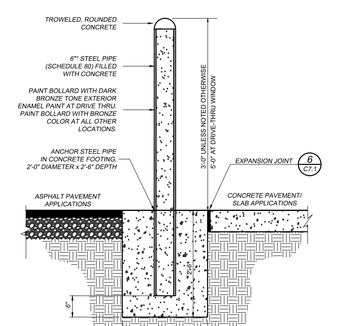
NOTES:
1. MARKINGS FOR STREET SHALL BE ACCORDING TO LOCAL CODE REQUIREMENTS AND AS OUTLINED IN SECTION 3B OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
2. MARKINGS WITHIN PRIVATE PARKING LOT SHALL BE PER THIS DETAIL.
3. THESE MARKINGS ARE TO BE PAINTED REFLECTIVE WHITE.

7 C7.1 *CROSSWALK MARKINGS*
NOT TO SCALE

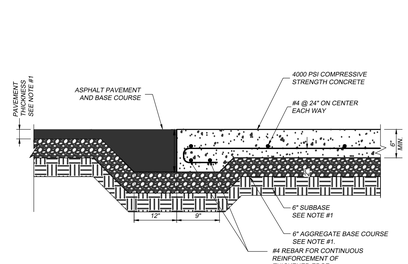


NOTES:
1. NO. 5 SMOOTH DOWEL BAR MAY BE USED IN 5 INCH AND 6 INCH PAVEMENT THICKNESS.
2. LONGITUDINAL BUTT CONSTRUCTION MAY BE UTILIZED IN PLACE OF LONGITUDINAL HINGED (KEYWAY) JOINT AT CONTRACTORS OPTION.
3. DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL EQUIPMENT.
4. DRILLING BY HAND IS NOT ACCEPTABLE, PUSHING DOWEL BARS INTO WET CONCRETE NOT ACCEPTABLE.
5. JOINT SPACING TO BE 24'X24' (EVERY OTHER JOINT)

6 C7.1 *EXPANSION JOINT*
NOT TO SCALE

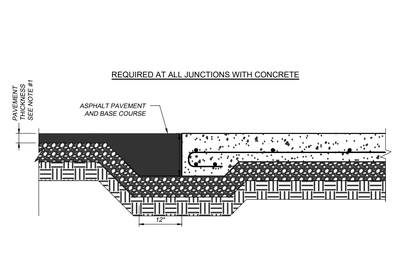


5 C7.1 *CONCRETE BOLLARD*
NOT TO SCALE



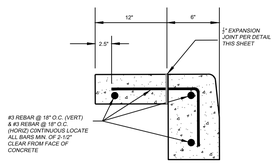
NOTE:
1. GENERAL CONTRACTOR SHALL REFERENCE GEOTECHNICAL REPORT FOR PAVEMENT SECTION REQUIREMENTS.
2. CONTRACTOR TO ENSURE REBAR IS SET ON DOBIES PRIOR TO POUR.

4 C7.1 *CONCRETE APRON AT TRASH ENCLOSURE*
NOT TO SCALE

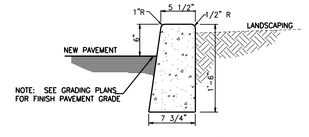


NOTE:
1. GENERAL CONTRACTOR SHALL REFERENCE GEOTECHNICAL REPORT FOR PAVEMENT SECTION REQUIREMENTS.

3 C7.1 *PAVEMENT EDGE DETAIL*
NOT TO SCALE



2 C7.1 *18" STEP-OFF CURB*
NOT TO SCALE



1 C7.1 *CEMENT CONCRETE BARRIER CURB*
NOT TO SCALE

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17259 PE
LICENSED PROFESSIONAL ENGINEER
11/18/2025

CHICK-FIL-A
2770 N
WASHINGTON ST
HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE:
RELEASE:

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	11/10/2025	DELIVERY PATH REVISION
2	11/17/2025	BUILDING FOOTPRINT AND TRASH REVISION

CONSULTANT PROJECT #	22725
PRINTED FOR	PERMIT
DATE	11/18/25
DRAWN BY	CJC

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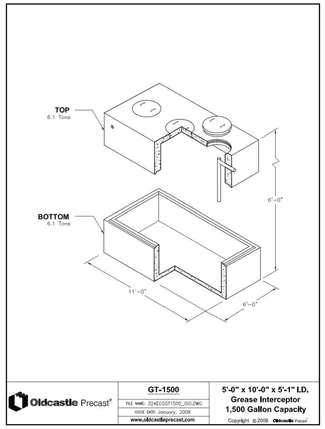
SHEET
CFA DETAILS

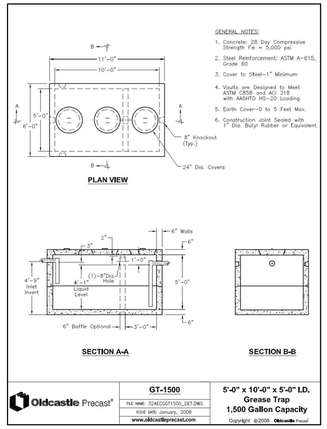
SHEET NUMBER
C7.1

J:\22000s\22725\engineering\22725-D.dwg 8/21/2025 2:40 PM CCLINCH

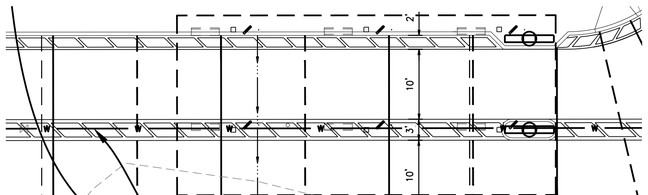
GEOTECHNICAL ENGINEERING REPORT
JOB NUMBER: C4235014
DATE: APRIL 27, 2023

CFA DETAILS
FOR
CHICK-FIL-A HELENA
SECTION 20, TOWNSHIP. 10 NORTH, RANGE 3 WEST
HELENA, LEWIS AND CLARK COUNTY, MONTANA

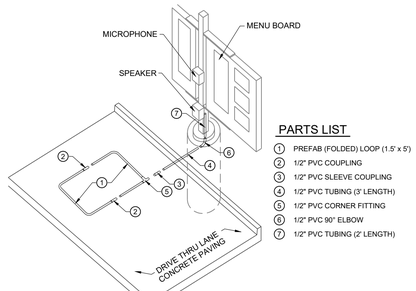




7 C7.2 *GREASE INTERCEPTOR*
NOT TO SCALE



6 C7.2 *ORDER POINT STRIPING*
NOT TO SCALE

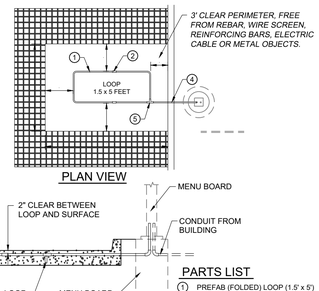


PARTS LIST
1. PREFAB (FOLDED) LOOP (1.5' x 5')
2. 1/2" PVC COUPLING
3. 1/2" PVC SLEEVE COUPLING
4. 1/2" PVC TUBING (3' LENGTH)
5. 1/2" PVC CORNER FITTING
6. 1/2" PVC 90° ELBOW
7. 1/2" PVC TUBING (2' LENGTH)

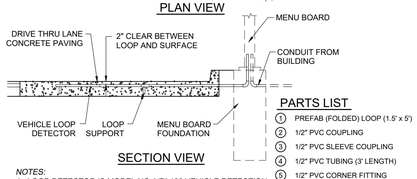
ISOMETRIC VIEW

NOTES:
1. *LOOP DETECTOR IS MODEL NO. VDL100 VEHICLE DETECTION LOOP MANUFACTURED BY MH ELECTRONICS, INC.*
2. *FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.*

5 C7.2 *MENU BOARD LOOP DETECTION SYSTEM (ISO. VIEW)*
NOT TO SCALE



PLAN VIEW

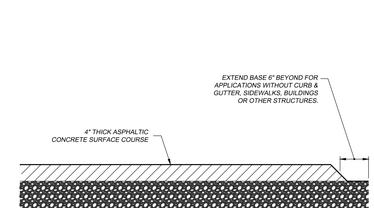


SECTION VIEW

PARTS LIST
1. PREFAB (FOLDED) LOOP (1.5' x 5')
2. 1/2" PVC COUPLING
3. 1/2" PVC SLEEVE COUPLING
4. 1/2" PVC TUBING (3' LENGTH)
5. 1/2" PVC CORNER FITTING
6. 1/2" PVC 90° ELBOW
7. 1/2" PVC TUBING (2' LENGTH)

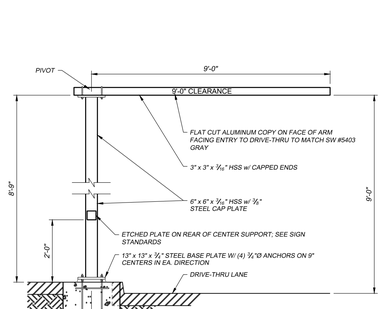
NOTES:
1. *LOOP DETECTOR IS MODEL NO. VDL100 VEHICLE DETECTION LOOP MANUFACTURED BY MH ELECTRONICS, INC.*
2. *FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.*

4 C7.2 *MENU BOARD LOOP DETECTION SYSTEM*
NOT TO SCALE



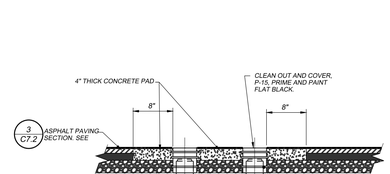
NOTE:
1. *GENERAL CONTRACTOR SHALL REFERENCE SITE SPECIFIC GEOTECHNICAL REPORT FOR PAVEMENT, AGGREGATE, AND SUBGRADE SECTION REQUIREMENTS.*
2. *MINIMUM PAVEMENT THICKNESS SHOULD BE 4" ASPHALT (WSDOT: 9-03.8(2) 1/2-INCH HMA, PG64-22 ASPHALT BINDER), 6" CRUSHED AGGREGATE BASE (WSDOT: 9-03.9(3) BASE COURSE), & 12" COMPACTED SUBGRADE (95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY; -2 TO +2% OPTIMUM MOISTURE CONTENT).*

3 C7.2 *TYPICAL HMAC PAVEMENT SECTION*
NOT TO SCALE



NOTES:
1. *ENTIRE CLEARANCE BAR & HARDWARE TO BE POWDER COATED QPC P-820 MATTE BLACK FINISH*
2. *CLEARANCE BAR ARM TO ROTATE WHEN STRUCK & RETURN TO ORIGINAL POSITION*
3. *COORDINATE w/ THE ARCHITECT & STRUCTURAL ENGINEER*

2 C7.2 *DRIVE-THRU CLEARANCE BAR*
NOT TO SCALE



NOTE: SEE PLUMBING PLANS FOR GREASE TRAP DETAIL

1 C7.2 *CLEAN-OUT OUTSIDE OF BUILDING*
NOT TO SCALE

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17259 PE
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11/18/2025

CHICK-FIL-A
2770 N WASHINGTON ST
HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE:
RELEASE:

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	11/10/2025	DELIVERY PATH REVISION
2	11/17/2025	BUILDING FOOTPRINT AND TRASH REVISION

CONSULTANT PROJECT #	22725
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SHEET
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SHEET NUMBER
C7.2

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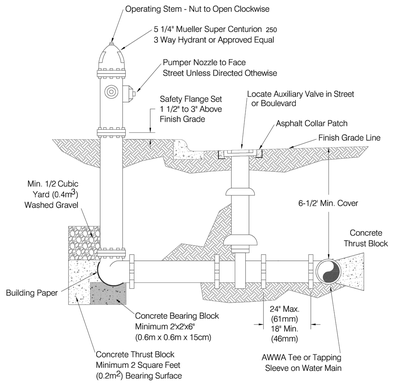
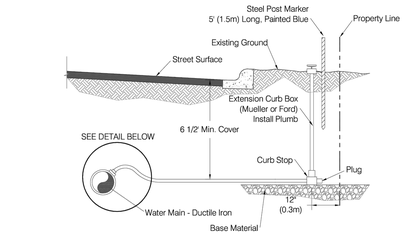
DETAILS
FOR
CHICK-FIL-A HELENA
SECTION 20, TOWNSHIP. 10 NORTH, RANGE 3 WEST
HELENA, LEWIS AND CLARK COUNTY, MONTANA



Notes:
1. Thrust blocking to be in conformance with MPW standard drawing 02660-1.
2. For bolted fittings, blocking shall not obstruct bolts.
3. Hydrant weep holes to remain unobstructed.
4. Thrust block shall bear horizontally against undisturbed soil.

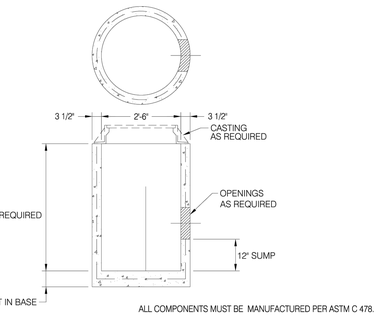
CITY OF HELENA ENGINEERING STANDARDS		Fire Hydrant Setting	STANDARD DRAWING:
REVISED: 2/12/13	SCALE: NONE		2-2



DETAIL OF A PROPERLY INSTALLED CORPORATION STOP SHOWING GOOSENECK IN SERVICE PIPE

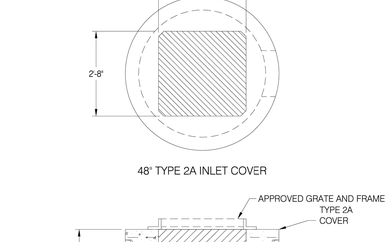
Notes:
1. Minimum cover for service lines shall be measured from existing ground line when ground is level or falling away from street, and measured from top of street curb when ground is rising from street.
2. Water service lines shall be installed where shown on the drawings or as specified.
3. Bedding shall be 1 inch (25mm) diameter maximum within 6" (15cm) of service pipe.

CITY OF HELENA ENGINEERING STANDARDS		Water Service Line	STANDARD DRAWING:
REVISED: 2/12/13	SCALE: NONE		2-3

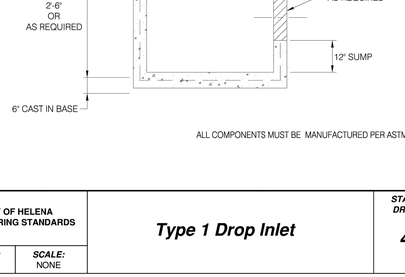


ALL COMPONENTS MUST BE MANUFACTURED PER ASTM C 478.

CITY OF HELENA ENGINEERING STANDARDS		Standard Specification Inlets	STANDARD DRAWING:
REVISED: 2/12/13	SCALE: NONE		4-1



48" TYPE 2A INLET COVER



ALL COMPONENTS MUST BE MANUFACTURED PER ASTM C 478.

CITY OF HELENA ENGINEERING STANDARDS		Type 1 Drop Inlet	STANDARD DRAWING:
REVISED: 2/12/13	SCALE: NONE		4-5

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HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE:
RELEASE:

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	11/10/2025	DELIVERY PATH REVISION
2	11/17/2025	BUILDING FOOTPRINT AND TRASH REVISION

CONSULTANT PROJECT #	22725
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SHEET
DETAILS

SHEET NUMBER
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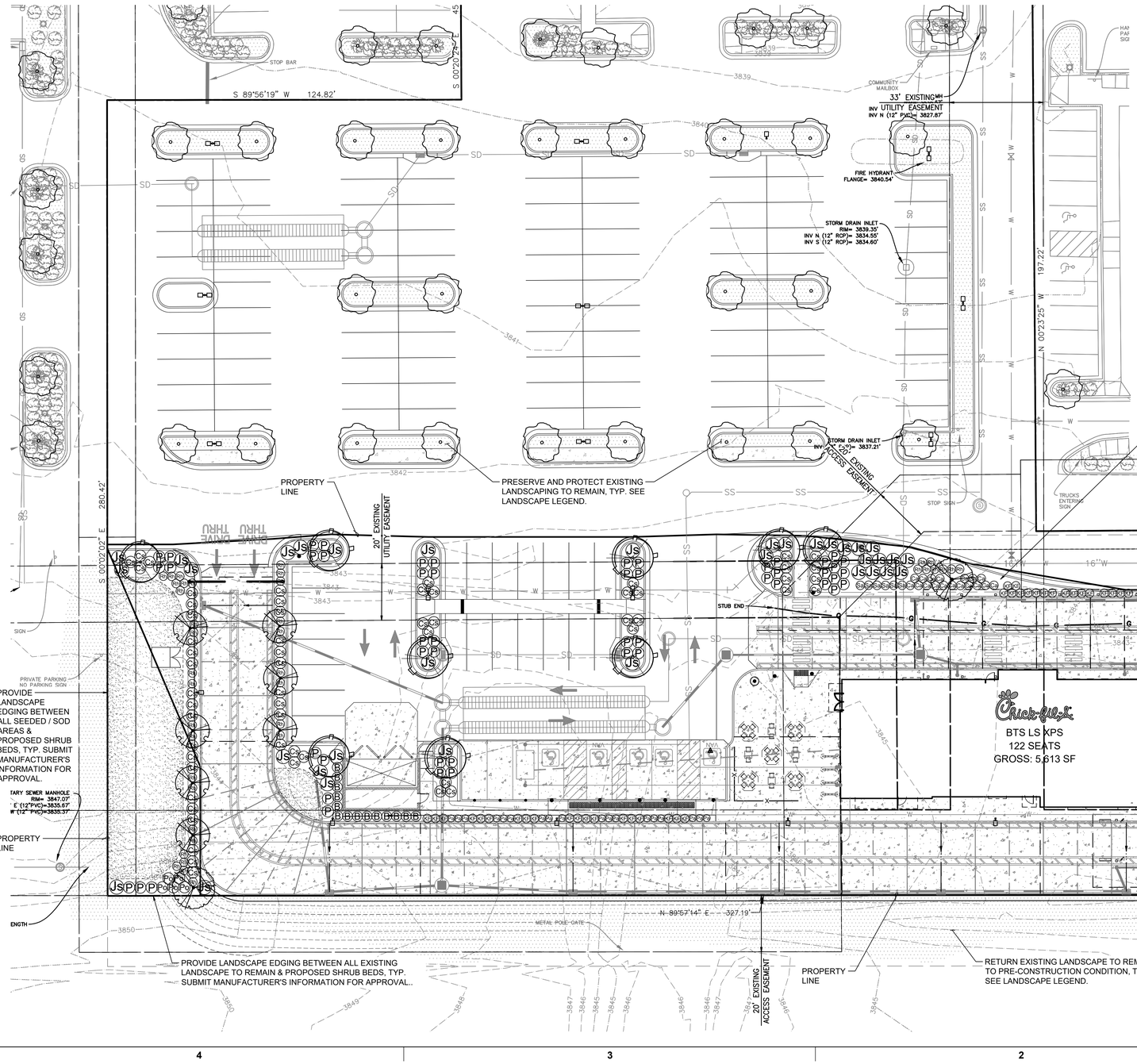
LANDSCAPE PLAN
FOR
CHICK-FIL-A HELENA

SECTION 20, TOWNSHIP. 10 NORTH, RANGE 3 WEST
HELENA, LEWIS AND CLARK COUNTY, MONTANA

N

0 10' 20' 40'
SCALE: 1"=20'



LANDSCAPE SHEET INDEX:

L1 LANDSCAPE PLAN
L2 PLANT SCHEDULE
L3 LANDSCAPE NOTES + DETAILS
L4 IRRIGATION PLAN
L5 IRRIGATION NOTES AND SCHEDULE
L6 IRRIGATION DETAILS
L7 IRRIGATION DETAILS

PROJECT CONTACTS:

ENGINEER
BARGHAUSEN CONSULTING ENGINEERS, INC.
18215 72ND AVE S
KENT WA, 98032
PH: (425) 251-6222
CONTACT: ALEX BELL, P.E.
EMAIL: ABELL@BARGHAUSEN.COM

LANDSCAPE ARCHITECT
BARGHAUSEN CONSULTING ENGINEERS, INC.
18215 72ND AVE S
KENT WA, 98032
PH: (425) 251-6222
CONTACT: JEFF M. VARLEY, P.L.A.
EMAIL: JVARLEY@BARGHAUSEN.COM

GENERAL NOTES:

A. THIS PLAN SET FOR LANDSCAPE IMPROVEMENTS SHALL BE USED IN CONJUNCTION WITH THE FOLLOWING PLANS ALSO PREPARED FOR THIS PROJECT AND SITE:
* SITE SURVEY
* CIVIL ENGINEERING PLANS
* ARCHITECTURAL PLANS

IF DISCREPANCIES ARE FOUND BETWEEN THIS PLAN SET AND THOSE REFERENCED ABOVE, SUCH DISCREPANCIES SHALL BE COORDINATED WITH BARGHAUSEN CONSULTING ENGINEERS, INC. AND RESOLVED PRIOR TO CONSTRUCTION ACTIVITIES.

B. ALL PROPOSED PLANTINGS SHALL BE IRRIGATED WITH A WATER-WISE AUTOMATIC IRRIGATION SYSTEM.

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Kent, WA 98032
425.251.6222
barghausen.com

STATE OF MONTANA
JEFF M. VARLEY
14368
LICENSED
LANDSCAPE ARCHITECT
SIGNED 8/27/25

CHICK-FIL-A
CUSTER AND WASHINGTON
WASHINGTON STREET
HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE:
RELEASE:

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CONSULTANT PROJECT #	22725
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SHEET
LANDSCAPE PLAN

SHEET NUMBER
L1

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PLANT SCHEDULE
FOR
CHICK-FIL-A HELENA
SECTION 20, TOWNSHIP. 10 NORTH, RANGE 3 WEST
HELENA, LEWIS AND CLARK COUNTY, MONTANA

PLANT SCHEDULE

SYMBOL	BOTANICAL / COMMON NAME	CONT.	SIZE	QTY
TREES				
	ACER TATARICUM 'PATDELL' / PATTERN PERFECT® TATARIAN MAPLE MATURE SIZE: 20' HEIGHT X 15' WIDTH	B & B	2.25" CAL.	9
	MALUS X 'PRAIRIFIRE' / PRAIRIFIRE CRABAPPLE MATURE SIZE: 20' HEIGHT X 15' WIDTH	B & B	2.25" CAL.	4
	PRUNUS VIRGINIANA 'CANADA RED' / CANADA RED CHOKECHERRY MATURE SIZE: 20' HEIGHT X 12' WIDTH	B & B	2.25" CAL.	7

SYMBOL	BOTANICAL / COMMON NAME	CONT.	WATER USE	SPACING	QTY
SHRUBS					
Ⓑ	BUXUS X 'GREEN MOUNTAIN' / GREEN MOUNTAIN BOXWOOD	2 GAL.		42" o.c.	14
Cw	CLETHRA ALNIFOLIA 'HUMMINGBIRD' / HUMMINGBIRD SUMMERSWEET	2 GAL.		36" o.c.	18
Cs	CORNUS SERICEA 'BAILADELINE' / FIREDANCE™ RED TWIG DOGWOOD	2 GAL.		48" o.c.	62
JS	JUNIPERUS SABINA 'MONNA' / CALGARY CARPET® JUNIPER	5 GAL.		60" o.c.	34
J	JUNIPERUS SQUAMATA `BLUE STAR` / BLUE STAR JUNIPER	5 GAL.		36" o.c.	5
Po	POTENTILLA FRUTICOSA `JACKMANII` / CINQUEFOIL	2 GAL.		48" o.c.	6
Ⓟ	PRUNUS BESSEYI 'P011S' / PAWNEE BUTTES® SAND CHERRY	5 GAL.		48" o.c.	51
Rm	RHUS AROMATICA 'GRO-LOW' / GRO-LOW FRAGRANT SUMAC	2 GAL.		36" o.c.	39
Sa	SYMPHORICARPOS ALBUS / COMMON WHITE SNOWBERRY	2 GAL.		36" o.c.	6
GRASSES					
Kf	CALAMAGROSTIS X ACUTIFLORA `KARL FOERSTER` / FEATHER REED GRASS	1 GAL.		36" o.c.	39
Ps	PENNISETUM ALOPECUROIDES `HAMELN` / FOUNTAIN GRASS	1 GAL.		30" o.c.	63

LANDSCAPE LEGEND

SYMBOL	DESCRIPTION	QUANTITY
	EXISTING DECIDUOUS TREE TO BE RETAINED - PROTECT DURING CONSTRUCTION	---
	STONE MULCH 3" MINIMUM DEPTH OF 1.5" TOWNSEND RIVER ROCK MATCHING EXISTING STONE MULCH ON ADJACENT SITE;.SPREAD THROUGHOUT AREAS SHOWN ON THE LANDSCAPE PLANS; INSTALL OVER DEWITT 5OZ WEED BARRIER FABRIC; 100% COVERAGE; STAPLE WEEED BARRIER FABRIC TO SUB-GRADE PER MANUFACTURERS RECOMMENDATIONS.	5,017 SF
	LAWN FESCUE SOD, 3-WAY CERTIFIED KENTUCKY BLUEGRASS BLEND	2,959 SF
	EXISTING VEGETATION TO REMAIN PRESERVE AND PROTECT EXISTING VEGETATION TO REMAIN. FOR EXISTING LANDSCAPED AREAS - REPLACE LANDSCAPING DAMAGED BY CONSTRUCTION WITH SAME MATERIAL, SPECIES AND SIZES. FOR EXISTING MEADOW AREAS TO THE EAST, SOUTH AND WEST OF THE SITE - HYDROSEED ALL AREAS DISTURBED BY CONSTRUCTION WITH A DROUGHT TOLERANT SEED MIX ADAPTED TO LOCAL CLIMATE.	23,926 SF

PLANT SCHEDULE NOTES

1. ALL TREES SHALL BE FULL, WELL BRANCHED AND SYMMETRICAL WITH STRONG, STRAIGHT, UNCUT CENTRAL LEADER.
2. CONIFERS SHALL BE FULL TO BASE.
3. DECIDUOUS TREES SHALL BE GROWN FOR STREET TREE USE AND SHALL HAVE LOWEST BRANCHES AT BETWEEN 5 & 6 FT. HEIGHT.
4. PARKING LOT TREES SHALL BE MATCHED SPECIMENS.
5. PRESERVE AND PROTECT ALL EXISTING TREES TO REMAIN ON ADJACENT PROPERTIES PER CITY OF HELENA TREE PROTECTION STANDARDS.
6. STAKE AND GUY ALL TREES FOR ONE GROWING SEASON.
7. REMOVE ALL WEEDS FROM PLANT ROOT BALLS AND CONTAINERS PRIOR TO PLANTING.
8. ALL GROUNDCOVERS AND GRASSES SHALL BE WELL ROOTED WITH FULL TOP GROWTH, AND BE PLANTED WITH TRIANGULAR SPACING PER PLANT SPACING DETAIL IN THIS DRAWING SET. ALL VINE TYPE SPREADING GROUNDCOVERS SHALL HAVE MINIMUM 3 RUNNERS.
9. ALL SHRUBS SHALL BE WELL ROOTED, SYMMETRICAL, FULL AND BUSHY. SHRUBS IN MORE THAN ONE ROW SHALL BE PLANTED WITH TRIANGULAR SPACING.
10. ALL PLANTS SHALL BE NURSERY GROWN, NOT COLLECTED.
11. ALL SOILS SHALL BE AMENDED PER CITY OF HELENA REQUIREMENTS.
12. APPLY MINIMUM 3" ORGANIC BARK MULCH TO THE SURFACES OF ALL SHRUB & GROUNDCOVER BEDS.
13. ALL PLANTS SHALL BE IRRIGATED WITH A WATER-WISE AUTOMATIC IRRIGATION SYSTEM. PLANT BEDS SHALL BE ZONED SEPARATELY ACCORDING TO LOCAL ENVIRONMENTAL CONDITIONS INCLUDING SUN / SHADE, REFLECTED HEAT FROM PARKING LOTS.
14. MAINTAIN ALL NEW PLANTS AND LAWN IN A HEALTHY CONDITION THROUGH THE ONE YEAR GUARANTEE PERIOD.

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PLANT SCHEDULE

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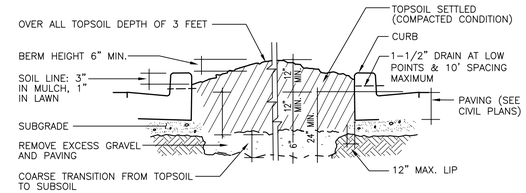
LANDSCAPE NOTES & DETAILS
FOR
CHICK-FIL-A HELENA
SECTION 20, TOWNSHIP. 10 NORTH, RANGE 3 WEST
HELENA, LEWIS AND CLARK COUNTY, MONTANA

LANDSCAPE PLAN SPECIFICATIONS

PART 1 – GENERAL
1.1 SUMMARY
A.This section includes landscape procedures for the Project including all labor, materials, and installation necessary, but not limited to, the following:
1. Soil Amendments
2. Fine Grading
3. Cultivation
4.Landscape Edging
5. Turf Planting
6. Furnish and Installing Plant
7.Maintenance
8.Mowing
9. Weeding
1.2 SITE CONDITIONS
A.Examination: Before submitting a Bid, each Contractor shall carefully examine the Contract Documents; shall visit the site of the Work; shall fully inform themselves as to all existing conditions and limitations; and shall include in the Bid the cost of all items required by the Contract Documents are at a variance with the applicable laws, building codes, rules, regulations, or contain obvious erroneous or uncoordinated information, the Contractor shall promptly notify the Project Representative and the necessary changes shall be accomplished by Addendum.
B.Protection: Contractor to conduct the Work in such a manner to protect all existing underground utilities or structures. Contractor to repair or replace any damaged utility or structure using identical materials to match existing at no expense to the Owner.
C.Irrigation System: Do not begin planting until the irrigation system is completely installed, is adjusted for full coverage and is completely operational.
1.3 PERMITS
A.Blue Stake/ Dig Line: When digging is required, "Blue Stake"or "Dig Line"the work site and identify the approximate location of all known underground utilities or structures.
1.4 PLANT DELIVERY, QUALITY, AND AVAILABILITY
A.Unauthorized substitutions will not be accepted. If proof is submitted that specific plants or plant sizes are unobtainable, written substitution requests will be considered for the nearest equivalent plant or size. All substitution requests must be made in writing and preferably before the bid due date.
1.5 FINAL INSPECTION
A.All plants will be inspected at the time of Final Inspection prior to receiving a Landscape Substantial Completion for conformance to specified planting procedures, and for general appearance and vitality. Any plant not approved by the Project Representative will be rejected and replaced immediately.
1.6 LANDSCAPE SUBSTANTIAL COMPLETION
A.A Substantial Completion Certificate will only be issued by the Project Representative for "landscape and irrigation"in their entirety. Substantial Completion will not be proportioned to be designated areas of a project.
1.7 MAINTENANCE
A.Plant Material: The Contractor is responsible to maintain all planted materials in a healthy and growing condition for 30 days after receiving a Landscape Substantial Completion at which time the Guarantee period commences. This maintenance is to include mowing, weeding, cultivating, fertilizing, monitoring water schedules, controlling insects and diseases, re–guying and staking, and all other operations of care necessary for the promotion of root growth and plant life so that all plants are in a condition satisfactory at the end of the guarantee period. The Contractor shall be held responsible for failure to monitor watering operations and shall replace any and all plant material that is lost due to improper application of water.
1.8 GUARANTEE
A.Guarantee: A guarantee period of one year shall begin from end of maintenance period and final acceptance for trees, shrubs, and ground covers. All plants shall grow and be healthy for the guarantee period and trees shall live and grow in acceptable upright position. Any plant not alive, in poor health, or in poor condition at the end of the guarantee period will be replaced immediately. Any plant will only need to be replaced once during the guarantee period. Contractor to provide documentation showing where each plant to be replaced is located. Any outside factors, such as vandalism or lack of maintenance on the part of the Owner, shall not be part of the guarantee

PART II – PRODUCTS
2.1 LANDSCAPE MATERIALS
A.Tree Staking: All trees shall be staked for one year warranty period. All trees not plumb shall be replaced. Staked trees shall use vinyl tree ties and tree stakes two (2) inch by two (2) by eight (8) foot common pine stakes used as shown on the details.
B. Tree Wrap: Tree wrap is not to be used.
C.Mulch/Rock: See Plans. All planter beds to receive a minimum 3"layer for trees, shrubs, and perennials and 1"for groundcovers.
D.Weed Barrier: DeWitt 5 oz. weed barrier fabric. Manufactured by DeWitt Company, dewittcompany.com or approved equal.
E. Tree, Shrub, and Grass Backfill Mixture; Backfill mixture to be 50% native soil and 50% topsoil, thoroughly mixed together prior to placement.
F. Topsoil: Required for turf areas, planter beds and Backfill Mixture. Acceptable topsoil shall meet the following standards:
a. PH: 5.5–7.5
b. EC (electrical conductivity): < 2.0 mmhos per centimeter
c. SAR (sodium absorption ration): < 3.0
d. % OM (percent organic matter): >1%
e. Texture (particle size per USDA soil classification): Sand <70%; Clay < 30%; Silt < 70%, Stone fragments (gravel or any soil particle greater than two (2) mm in size) < 5% by volume.
G.Turf Sod: All sod shall be 18 month old as specified on plans (or approved equal) that has been cut fresh the morning of installation. Only sod that has been grown on a commercial sod farm shall be used. Only use sod from a single source.
H.Landscape Edging: Headers and Edging six (6) inches by four (4) inches extruded concrete curb made up of the following materials:
a. Washed mortar sand free of organic material.
b. Portland Cement (see concrete spec. below for type)
c. Reinforced fiber – Specifically produced for compatibility with aggressive alkaline environment of Portland cement–based composites.
d. Only potable water for mixing.

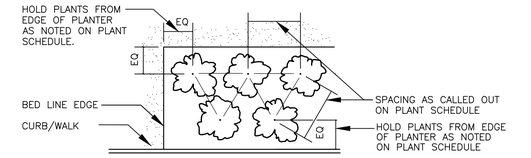
PART III – EXECUTION
3.1 GRADING
A.Topsoil Preparation: Grade planting areas according to the grading plan. Eliminate uneven areas and low spots. Provide for proper grading and drainage.
B. Topsoil Placement: Slope surfaced away from building at two (2) percent slope with no pockets of standing water. Establish finish grades of one (1) inches for planters below grade of adjacent paved surfaced. Provide neat, smooth, and uniform finish grades. Remove surplus sub–soil and topsoil from the site.
C. Compaction: compaction under hard surface areas (asphalt paths and concrete surfaces) shall be ninety–five (95) percent. Compaction under planting areas shall be between eighty–five (85) and ninety (90) percent.
3.2 TURF GRADING
A.The surface on which the sod is to be laid shall be firm and free from footprints, depressions, or undulations of any kind. The surface shall be free of all materials larger than 1/2"in diameter.
B. The finish grade of the topsoil adjacent to all sidewalks, mow–strips, etc. prior to the laying of sod, shall be set such that the crown of the grass shall be at the same level as the adjacent concrete or hard surface. No exceptions.
3.3 PLANTING OPERATIONS
A.Review the exact locations of all trees and shrubs with the Project Representative for approval prior to the digging of any holes. Prepare all holes according to the details on the drawings.
B. Water plants immediately upon arrival at the site. Maintain in moist condition until planted.
C.Before planting, locate all underground utilities prior to digging. Do not place plants on or near utility lines.
D. The tree planting hole should be the same depth as the root ball, and three times the diameter of the root ball.
E. Trees must be placed on undisturbed soil at the bottom of the planting hole.
F. The tree hole depth shall be determined so that the tree may be set slightly high of finish grade, 1"to 2"above the base of the trunk flare, using the top of the root ball as a guide.
G.Plant immediately after removal of container for container plants.
H.Set tree on soil and remove all burlap, wire baskets, twine, wrappings, etc. before beginning and backfilling operations. Do not use planting stock if the ball is cracked or broken before or during planting operation.
I. Apply vitamin B–1 root stimulator at the rate of one (1) tablespoon per gallon.
J. Upon completion of backfilling operation, thoroughly water tree to completely settle the soil and fill any voids that may have occurred. Use a watering hose, not the area irrigation system. If additional prepared topsoil mixture needs to be added. It should be a courser mix as required to establish finish grade as indicated on the drawings.
K. The amount of pruning shall be limited to the minimum necessary to remove dead or injured twigs and branches. All cuts, scars, and bruises shall be properly treated according to the direction of the Project Representative. Proper pruning techniques shall be used. Do not leave stubs and do not cut the leader branch. Improper pruning shall be cause for rejection of the plant material.
L. Prepare a watering circle of 2' diameter around the trunk. For conifers, extend the watering well to the drip line of the tree canopy. Place mulch around the planted trees.
3.4 TURF – SOD LAYING
A.Top Soil Amendments: Prior to laying sod, commercial fertilizer shall be applied and incorporated into the upper four (4) inches of the topsoil at a rate of four pounds of nitrogen per one thousand (1,000) square feet. Adjust fertilization mixture and rate of application as needed to meet recommendations given by topsoil analysis. Include other amendments as required.
B.Fertilization: Three weeks after sod placement fertilize the turf at a rate of ½ pound of nitrogen per 1000 square feet. Use fertilizer specified above. Adjust fertilization mixture and rates to meet recommendations given by topsoil analysis.
C. Sod Availability and Condition: The Contractor shall satisfy himself as to the existing conditions prior to any construction. The Contractor shall be fully responsible for furnishing and lay all sod required on the plans. He shall furnish new sod as specified above and lay it so as too completely satisfy the intent and meaning of the plans and specification at no extra cost to the owner. In the case of plans and specification at no extra cost to the owner. In the case of any discrepancy in the amount of sod to be removed or amount to be used, it shall be the Contractor's responsibility to report such to the Project Representative prior to commencing the work.
D.Sod Laying: The surface upon which the new sod to be laid will be prepared as specified above. Areas where sod is to be laid shall be cut trimmed, or shaped to receive full width sod (minimum twelve (12) inches). No partial strip or pieces will be accepted.
E. Sod shall be tamped lightly as each piece is set to insure that good contact is made between edges and also the ground. Sod laid on any sloped areas shall be anchored with wooden dowels or other materials which are accepted by the grass sod industry.
F. Apply water directly after laying sod. Rainfall is not acceptable.
G.Watering of the sod shall be the complete responsibility of the Contractor by whatever means necessary to establish the sod in an acceptable manner to the end of the Maintenance period. If an irrigation system is in place on the site, but for whatever reason, water is not available in the system. It is the responsibility of the Contractor to water the sod by whatever means, until the sod is accepted by the Project Representative.
H.Protection of the newly laid sod shall be the complete responsibility of the Contractor. The Contractor shall provide acceptable visual barriers, to include barricades set appropriate distances with strings or tapes between barriers, as an indication of new work.The Contractor is to restore any damaged areas caused by others (including vehicular traffic), erosion, etc, until such time as the lawn is accepted by the Owner.
I. All sod that has not been laid within 24 hours shall be deemed unacceptable and will be removed from the site.
3.5 WEED BARRIER
A.Cut a slit or x at each plant location no larger than necessary to install plant.
B. Overlap rows of fabric min. 6"
C. Stable fabric edges and overlaps to ground.
END OF SECTION



NOTE:
OVER EXCAVATE PARKING LOT PLANTERS TO LOOSEN COMPACTED SUBBASE

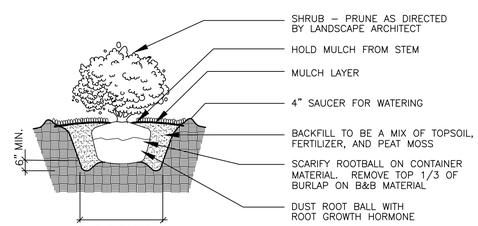
GRADING • PARKING LOT PLANTERS DETAIL
NOT TO SCALE

DEDUCT ALT #1: IF LANDSCAPE CONTRACTOR CAN DEMONSTRATE THAT PLANTER ISLANDS ARE NOT FULL OF NON–SOIL MATERIALS (CONCRETE WASTE, LUMBER, ROAD BASE, GRAVEL), FULL EXCAVATION AND REPLACE WITH 18"–21" OF TOPSOIL CAN BE ELIMINATED AND IN ITS PLACE, 6" OF COMPOST CAN BE PLACED ON SUB–GRADE AND CULTIVATED INTO TOP 12" OF EXISTING SOIL. TOP OF FINISH GRADE AND DEPTH OF MULCH STILL APPLIES



NOTE:
THIS SPACING APPLIES TO GROUNDCOVER AND FORMAL SHRUB ROW PLACEMENT.

PLANT MATERIAL SPACING DETAIL
NOT TO SCALE



SHRUB PLANTING DETAIL
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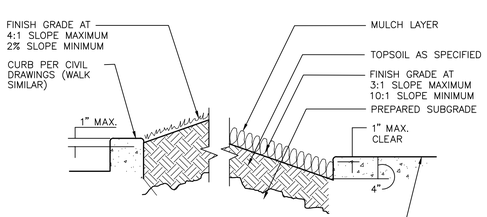

PLANTER SECTION DETAIL
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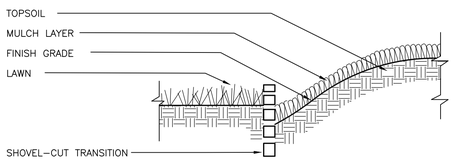
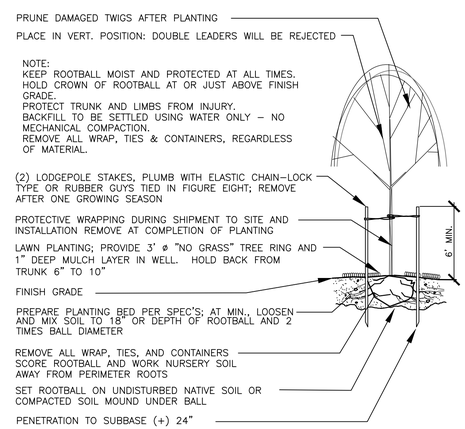
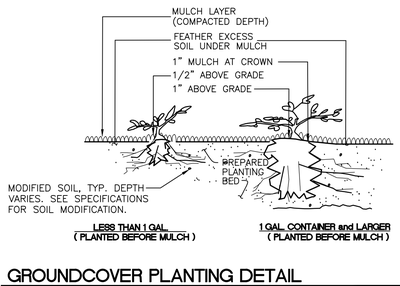


PLANTING BED ADJACENT TO LAWN DETAIL
NOT TO SCALE



DECIDUOUS TREE PLANTING DETAIL
NOT TO SCALE



GROUNDCOVER PLANTING DETAIL
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SHEET
LANDSCAPE NOTES & DETAILS

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IRRIGATION PLAN
FOR
CHICK-FIL-A HELENA

SECTION 20, TOWNSHIP. 10 NORTH, RANGE 3 WEST
HELENA, LEWIS AND CLARK COUNTY, MONTANA

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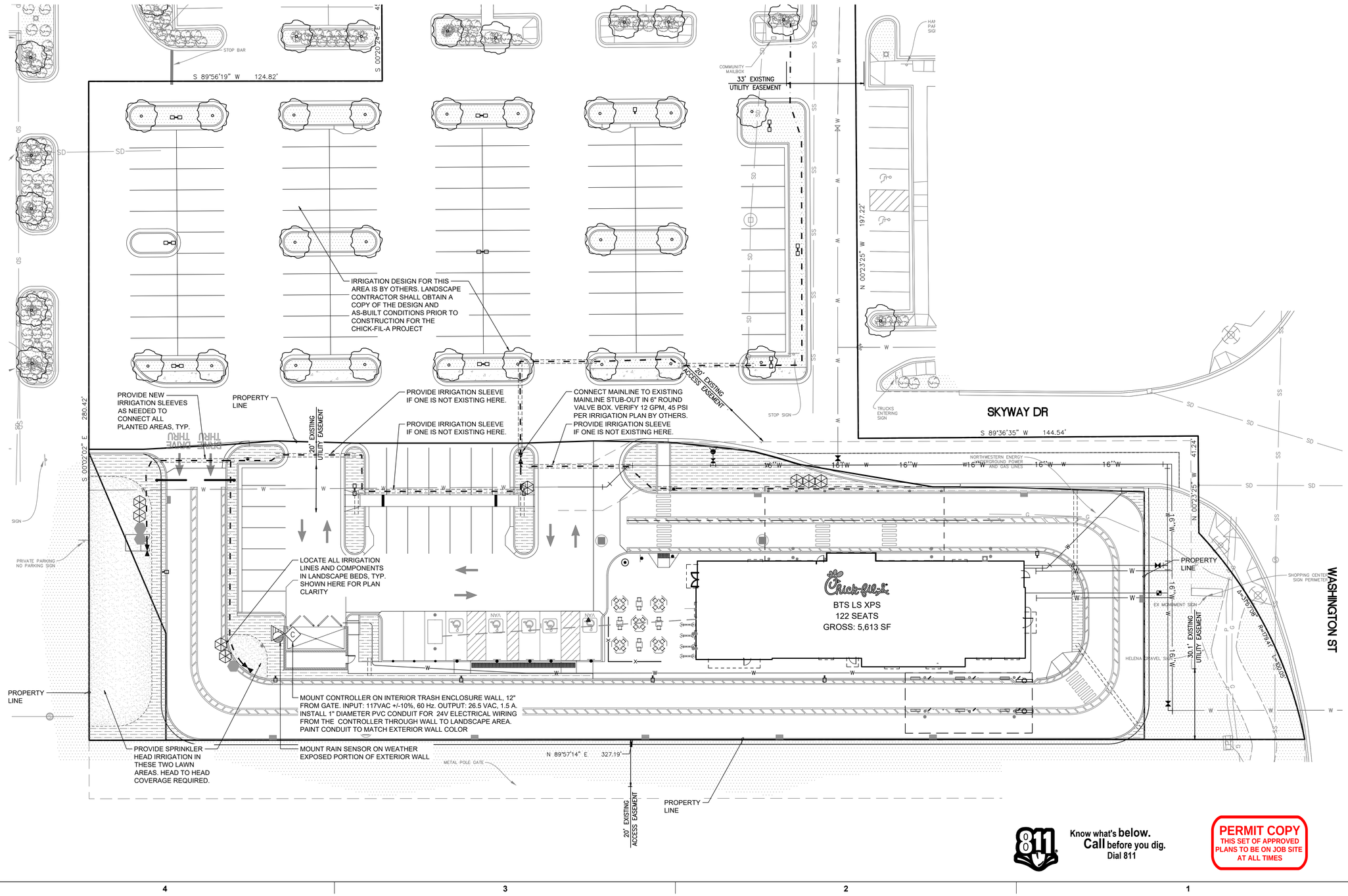
0 10' 20' 40'
SCALE: 1"=20'



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SHEET
IRRIGATION PLAN

SHEET NUMBER
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IRRIGATION NOTES & SCHEDULE
FOR
CHICK-FIL-A HELENA
SECTION 20, TOWNSHIP. 10 NORTH, RANGE 3 WEST
HELENA, LEWIS AND CLARK COUNTY, MONTANA

LANDSCAPE IRRIGATION NOTES

1. GENERAL CONTRACTOR AND LANDSCAPE CONTRACTOR TO COORDINATE:
   - A) INSTALLATION OF 110V ELECTRICAL SERVICE FROM ELECTRICAL SOURCE TO AUTOMATIC CONTROLLER, INCLUDING WIRE HOOK–UP INTO MOUNTED CONTROLLER. IRRIGATION CONTRACTOR WILL MOUNT CONTROLLER PER DESIGN AND COORDINATE WITH GENERAL CONTRACTOR.
   - B) INSTALLATION OF IRRIGATION/SERVICE METER AND STUB TO IRRIGATION POINT OF CONNECTION, PER UTILITY PLAN(S). PROVIDE STANDARD THREADED STUB–OUT WITH THREADED CAP ON DISCHARGE SIDE OF METER. STUB–OUT TO BE INSTALLED APPROXIMATELY 18 INCHES BELOW FINISH GRADE.
   - C) VERIFICATION OF STATIC WATER PRESSURE AT POINT–OF–CONNECTION (P.O.C.) CONTRACTOR SHALL NOTIFY OWNER AND BARGHAUSEN CONSULTING ENGINEERS, INC., OF ANY VARIATION IN STATIC PRESSURE OVER 5 PSI GREATER/LESS THAN DESIGN PRESSURE.
   - D) INSTALLATION OF SLEEVING.
2. PROVIDE ALL LABOR, MATERIALS, TRANSPORTATION, AND SERVICES NECESSARY TO FURNISH AND INSTALL A COMPLETE IRRIGATION SYSTEM AS INDICATED ON THE DRAWINGS AND/OR NOTES. PROVIDE A ONE (1) YEAR WARRANTY/GUARANTEE FROM FINAL ACCEPTANCE AGAINST ALL DEFECTS IN MATERIALS, EQUIPMENT, AND WORKMANSHIP.
3. COORDINATE IRRIGATION INSTALLATION WITH GENERAL CONTRACTOR, ELECTRICAL CONTRACTOR, LANDSCAPE CONTRACTOR, OWNER, ARCHITECT, AND LANDSCAPE ARCHITECT.
4. LANDSCAPE CONTRACTOR TO TEST AVAILABLE WATER PRESSURE PRIOR TO BEGINNING ANY WORK. PROVIDE LANDSCAPE ARCHITECT WITH WRITTEN PSI RESULTS.
5. ALL WORK PER LOCAL CODE. INSTALLATION PER MANUFACTURER'S WRITTEN SPECIFICATIONS.
6. CONTRACTOR TO OBTAIN AND PAY FOR ALL PERMITS, FEES, AND REQUIRED CITY INSPECTIONS.
7. SUBMITTALS:
   - A) SUBMIT EACH ITEM LISTED BELOW FOR LANDSCAPE ARCHITECT'S REVIEW AND APPROVAL,
   - B) PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED,
   - C) CONTROL WIRING PATH DIAGRAM,
   - D) "AS–BUILT" DRAWINGS.
   - E) OPERATION AND MAINTENANCE MANUALS.
8. PROVIDE AND KEEP UP TO DATE A COMPLETE "AS–BUILT" RECORD SET OF PRINTS WHICH ARE TO BE CORRECTED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL DRAWINGS AND NOTES AND EXACT "AS–BUILT" LOCATIONS, SIZES AND KIND OF EQUIPMENT. THIS SET OF DRAWINGS. ARE TO BE KEPT ON SITE AND ARE TO BE USED ONLY AS THE RECORD SET. ALL WORK IS TO BE NEAT AND LEGIBLE ANNOTATIONS THEREON DAILY AS THE WORK PROCEEDS, SHOWING WORK AS ACTUALLY INSTALLED.
   DIMENSION FORM TWO (2) PERMANENT POINTS OF REFERENCE, BUILDING CORNERS, WALKS, OR ROAD INTERSECTIONS, ETC., THE LOCATION OF THE FOLLOWING:
   - A) CONNECTION TO WATER LINES (P.O.C.),
   - B) CONNECTIONS TO ELECTRICAL POWER,
   - C) GATE VALVE, QUICK COUPLERS, AND REMOTE CONTROL VALVE,
   - D) ROUTING OF MAINLINE (DIMENSION MAXIMUM 100' ALONG ROUTING),
   - E) ROUTING OF CONTROL WIRING,
   - F) OTHER RELATED EQUIPMENT AS DIRECTED BY THE LANDSCAPE ARCHITECT.
9. PREPARE AND PROVIDE PRIOR TO COMPLETION OF CONSTRUCTION, A THREE RING BINDER CONTAINING THE FOLLOWING INFORMATION:
   - A) INDEX SHEET STATING CONTRACTOR'S ADDRESS, TELEPHONE NUMBER, FAX, E–MAIL AND A, LIST OF EQUIPMENT WITH NAME AND ADDRESS OF LOCAL MANUFACTURER'S REPRESENTATIVES,
   - B) CATALOG AND PARTS SHEETS ON EVERY MATERIAL AND EQUIPMENT INSTALLED UNDER THIS, CONTRACT,
   - C) GUARANTEE STATEMENT,
   - D) COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS ON ALL MAJOR EQUIPMENT.
   - E) CONSTRUCTION DETAILS FROM THE PROJECT,
   - F) COMPLETE TROUBLE–SHOOTING GUIDE TO COMMON IRRIGATION PROBLEMS,
   - G) WINTERIZATION AND SPRING START–UP PROCEDURES,
   - H) CHART OF APPROXIMATE WATERING TIMES FOR SPRING, SUMMER, AND FALL,
   - I) A COPY OF THE "AS–BUILT" DRAWINGS AND CONTROLLER CHART.
10. ALL VALVES TO BE PLACED IN "CARSON" GRADE LEVEL BOXES WITH BOLT–LOCK LIDS (OR APPROVED EQUIVALENT). SET BOXES 2 INCHES HIGHER THAN FINISH GRADE IN MULCH AREAS AND FLUSH WITH FINISH GRADE IN LAWN AREAS. JUMBO BOX FOR CHECK VALVE, 10" ROUND BOX FOR GATE/QUICK COUPLER/WIRE SPLICES, AND 12" STANDARD FOR CONTROL VALVES. PROVIDE BOX EXTENSIONS AS REQUIRED.
11. MAINLINE PIPE TO BE BURIED 18 INCHES, LATERALS 12 INCHES. NO ROCK OR DEBRIS TO BE BACKFILLED OVER PIPE.
12. HEAD AND LINE POSITIONING IS DIAGRAMMATIC ON PLAN. ADJUST IN FIELD AS NECESSARY FOR 100 PERCENT COVERAGE. VALVES TO BE POSITIONED ADJACENT TO PAVEMENT/CURBS, IN SHRUB BEDS WHERE POSSIBLE.
13. FAMILIARIZE OWNERS FACILITY OPERATOR WITH IRRIGATION SYSTEM FUNCTION, CONTROLLER PROGRAMMING, SYSTEM OPERATION AND MAINTENANCE REQUIREMENTS.
14. SPRINKLERS ON RISERS WILL NOT BE ALLOWED UNLESS NOTED ON PLANS.
15. RADIUS REDUCTION TO BE MADE BY USE OF PRESSURE ADJUSTMENT, SCREENS, AND/OR ALTERNATE NOZZLES. IN–NOZZLE ADJUSTMENT IS LIMITED TO 10 PERCENT FOR SPRAY HEADS AND PER MANUFACTURER'S LIMITS FOR OTHER SPRINKLERS. SPRINKLER SPACING NOT EXCEED 60% OF THE DIAMETER OF THE PUBLISHED DATA.
16. ALL CONTROL WIRE SPLICES TO BE MADE AT VALVE BOXES WITH WATER TIGHT ELECTRICAL SPLICES, 3M, SCOTT'S LOCK SEAL TACK 3576–78, OR EQUIVALENT.
17. EACH VALVE BOX TO CONTAIN A MINIMUM OF TWO (2) SPARE ORANGE CONTROL WIRES FOR JACKETED WIRE. ROUTE SPARE WIRES FROM THE CONTROLLER TO THE LAST VALVE OF EACH MAINLINE BRANCH. COMMON WIRE TO BE WHITE. SINGLE STRAND
18. ALL ELECTRICAL EQUIPMENT TO BE U.L. TESTED AND APPROVED, AND BEAR THE U.L.
19. CROSS CONNECTION PROTECTION INSPECTION REQUIRED. THE BACKFLOW DEVICE TO BE TESTED UPON THE ORIGINAL INSTALLATION. THE TESTING TO BE PERFORMED BY A PERSON HOLDING A CURRENT CERTIFICATE AS A BACKFLOW TESTER. THE TEST REPORT TO BE SUBMITTED TO THE LOCAL WATER DISTRICT, OR PURVEYOR, AND OWNER WITH A COPY TO BARGHAUSEN CONSULTING ENGINEERS, INC. CONTRACTOR TO INCLUDE TESTING IN THE SCOPE OF WORK. OWNER IS RESPONSIBLE FOR ANNUAL INSPECTIONS AFTER THE INTIAL
20. CONTRACTOR TO PROVIDE SYSTEM WINTERIZATION/SPRING SERVICE WHEN INSTALLATION HAS BEEN COMPLETED WITHIN 90 DAYS OF NOVEMBER 1 FOR WINTERIZATION, OR MAY 15 FOR SPRING SERVICE. SERVICE TO BE PERFORMED AS NEAR AS PRACTICAL TO THE ABOVE DATES, OR AS FREEZE/PRECIPITATION CONDITIONS DETERMINE SERVICE
21. WINTERIZATION TO INCLUDE BLOW–OUT OF ALL WATER IN MAINLINE. NO WATER IS TO REMAIN IN MAINLINE AND LATERALS OVER THE WINTER.

IRRIGATION LEGEND

SYMBOL	DESCRIPTION				
DRIP IRRIGATION:	HUNTER LANDSCAPE DRIPLINE COMPONENTS				
	HDL–06–12–250–CV SUB–SURFACE DRIPLINE TUBING 0.6 GPH PRESSURE COMPENSATING EMITTERS WITH CHECK VALVE AT 12" ON–CENTER SPACING – ALL TUBING SHALL BE INSTALLED ON GRADE W/ 9" WIRE STAKES FOUR (4) FEET ON–CENTER; VERIFY THE LAYOUT AND 18" ON–CENTER SPACING IN THE FIELD PRIOR TO STARTING WORK. INSTALL ALL COMPONENTS PER MANUF. SPECIFICATIONS.				
	USE HUNTER PLD–LOC FITTINGS FOR CONNECTION BETWEEN PVC LATERAL LINES AND INLINE DRIP TUBING				
SPRINKLER HEADS:	HUNTER MP ROTATOR WITH PRO–SPRAY POP–UP BODY AND CV DRAIN CHECK VALVE, 4" LAWN, 6" SHRUB				
SYMBOL	NOZZLE	PSI	GPM		RADIUS
	HUNTER–6Q and 6H H, Q SERIES	30		0.98, 0.51	6'
	HUNTER–1000 8–15 F, TH, TT, H, Q SERIES	35	0.65, 0.48, 0.37, 0.32, 0.16		8'
	HUNTER–1000 8–15 F, TH, TT, H, Q SERIES	35	0.65, 0.48, 0.37, 0.32, 0,16		10'
	HUNTER–1000 8–15 F, TH, TT, H, Q SERIES	35	0.65, 0.48, 0.37, 0.32, 0,16		12'
	HUNTER–2000 13–21 F, TQ, TT, H, Q SERIES	30	1.29, 0.95, 0.74, 0.63, 0.33		15'
	HUNTER ES515, SS530 SERIES	35	1.41, 0.65		5'x30' 5'x15'

OTHER IRRIGATION EQUIPMENT:

SYMBOL	DESCRIPTION
	SPRAY IRRIGATION: HUNTER ICV 101/151G REMOTE CONTROL VALVE, IN VALVE BOX, ONE VALVE PER BOX MAXIMUM 2 VALVES PER BOX
	DRIP IRRIGATION: ICZ–101/151–XL REMOTE CONTROL DRIP ZONE KIT WITH FILTER AND PRESSURE REGULATOR MAXIMUM 2 VALVES PER BOX
	HUNTER SOLAR SYNC WIRE RAIN SENSOR COMBO
	HUNTER HC–HYBRID BATTERY–OPERATED CONTROLLER; PROVIDE GROUND AND BATTERIES PER MANUFACTURER'S SPECIFICATIONS
NO SYMBOL	SEE AS–BUILT DRAWINGS UNDER SEPARATE CONTRACT FOR THE ENTIRE SHOPPING CENTER SITE FOR POINT OF CONNECTION / BACKFLOW PREVENTER LOCATION AND INFORMATION.
	PLASTIC BALL VALVE, MATCH LINE SIZE, IN VALVE BOX
	HUNTER HQ–33DLRC 3/4" QUICK COUPLING VALVE, IN VALVE BOX, PROVIDE TWO KEYS AND SWIVELS
– – – – – –	MAINLINE – SCH 40 PVC (MINIMUM 30" COVER); 1–1/2" SIZE MINIMUM. MATCH SIZE OF EXISTING MAINLINE STUBOUT.
————	LATERAL – SCH 40 PVC (18" COVER); SIZE PER PLAN, 3/4" SIZE MINIMUM. FLUSH LATERALS AND WINTERIZE SYSTEM PRIOR TO FREEZING TEMPERATURES.
==========	SLEEVE – SCH 40 PVC; 30" MINIMUM COVER AT VEHICLE CROSSINGS, 30" MINIMUM COVER IN LANDSCAPE AREAS WHERE MAINLINE TRAVELS THROUGH, 18" MINIMUM COVER IN LANDSCAPE AREAS WHERE ONLY LATERAL TRAVELS THROUGH, 6" SIZE WHERE IRRIGATION MAINLINE TRAVELS THROUGH PIPE. 4" SIZE WHERE ONLY LATERALS TRAVEL THROUGH SLEEVE.

IRRIGATION SHOWN DIAGRAMATICALLY FOR PLAN CLARITY. COMMON TRENCH AND PLACE EQUIPMENT IN LANDSCAPE; MANIFOLD GROUPED VALVES IN ADJACENT SHRUB AREAS WHERE FEASIBLE.

SCH 40 PIPE SIZING CHART

PIPE SIZE	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	
FLOW GPM	1–8	8.1–13	13.1–23	23.1–32	32.1–53	53.1–74	GPM (MAX.)

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5200 Buffington Road
Atlanta, Georgia 30349-2998

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18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

STATE OF MONTANA
JEFF M. VARLEY
14368
LICENSED
LANDSCAPE ARCHITECT
SIGNED 8/27/25

CHICK-FIL-A
CUSTER AND WASHINGTON
WASHINGTON STREET
HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE:
RELEASE:

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
-	8/27/25	PERMIT SUBMITTAL

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CONSULTANT PROJECT #	22725
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DRAWN BY	JMV

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SHEET
IRRIGATION NOTES & SCHEDULE

SHEET NUMBER
L5

8/9/2024 12:49 PM JVARLEY
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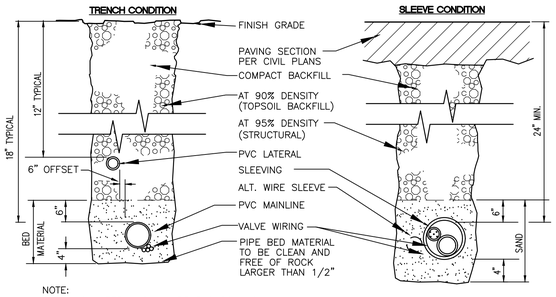
IRRIGATION DETAILS
FOR
CHICK-FIL-A HELENA

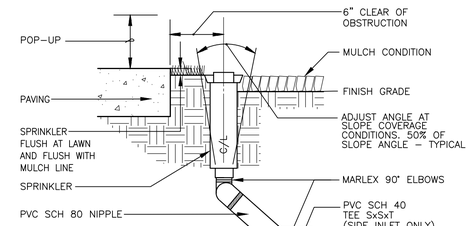
SECTION 20, TOWNSHIP. 10 NORTH, RANGE 3 WEST
HELENA, LEWIS AND CLARK COUNTY, MONTANA



NOTE:
SLEEVING MATERIAL SHALL BE PVC SCH 40
DIMENSIONS ARE MIN. CLEARANCES.
ALL IRRIGATION SLEEVING TRENCH BACKFILL MATERIAL SHALL BE CLASS "B" OR BETTER (MAX. OF 10% PASSING NO.40 SCREEN) AND BE COMPACTED TO MIN. 95% OPTIMUM DENSITY PER ASTM D-1557-70 (MODIFIED PROCTOR)

SLEEVE/TRENCHING DETAIL

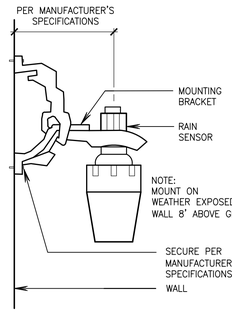
NOT TO SCALE



NOTE:
MANUFACTURER'S LIMITS PREVAIL FOR INSTALLATION AND ADJUSTMENTS.
PROVIDE SWING JOINT RISERS AT WALKS AND CURBS. 24" FLEXIBLE RISERS ACCEPTABLE ELSEWHERE.

POP-UP RISER ASSEMBLY

NOT TO SCALE



RAIN SENSOR DETAIL

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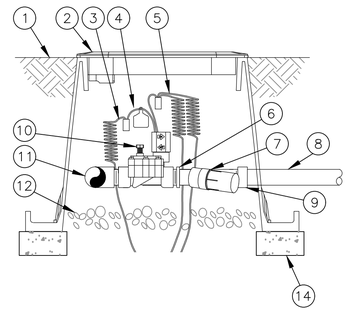
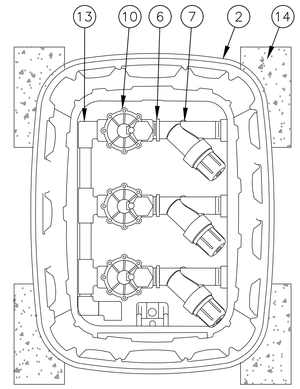


SIDE VIEW

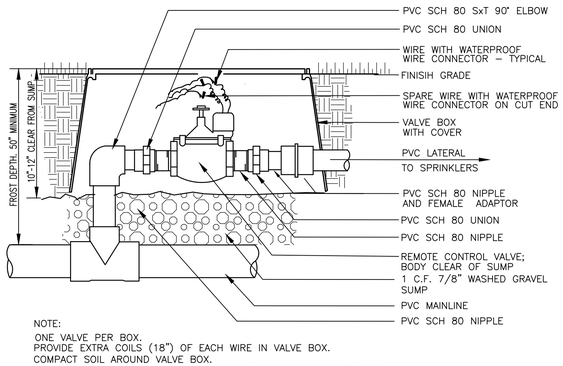
1. FINISH GRADE
2. STANDARD VALVE BOX WITH COVER:
3. WATERPROOF CONNECTION:
4. VALVE ID TAG
5. 30-INCH LINEAR LENGTH OF WIRE, COILED
6. 1" X ¾" REDUCING COUPLING
7. PRESSURE REGULATING FILTER:
8. LATERAL PIPE
9. PVC SCH 40 FEMALE ADAPTOR OR REDUCER
10. REMOTE CONTROL VALVE:
11. PVC SCH 40 TEE OR ELL TO MANIFOLD
12. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
13. MANIFOLD PIPE AND FITTINGS
14. MINIMUM FOUR (4) 4"x8" BRICKS



TOP VIEW

DRIP IRRIGATION VALVE

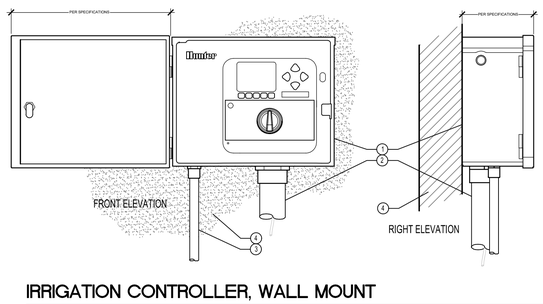
NOT TO SCALE



NOTE:
ONE VALVE PER BOX.
PROVIDE EXTRA COILS (18") OF EACH WIRE IN VALVE BOX.
COMPACT SOIL AROUND VALVE BOX.
USE TEFLON OR FLOWABLE SEALANT IN ALL THREADED FITTINGS, PER MANUFACTURES SPEC'S.

REMOTE CONTROL VALVE ASSEMBLY

NOT TO SCALE



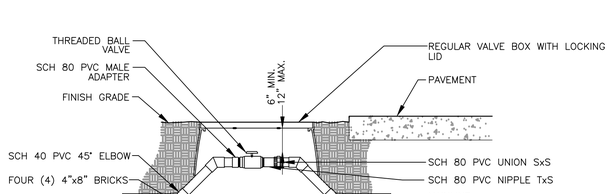
LEGEND:
1. IRRIGATION CONTROLLER (ACC) PER PLAN
2. IRRIGATION CONTROL WIRE IN CONDUIT SIZE AND TYPE PER LOCAL CODES
3. ELECTRICAL SUPPLY CONDUIT CONNECT TO POWER SOURCE. J-BOX INSIDE CONTROLLER
4. ADJACENT SURFACE TO MOUNT CONTROLLER PER PLAN

NOTE
MOUNT CONTROLLER LCD SCREEN AT EYE LEVEL. CONTROLLER SHALL BE HARD-WIRED TO GROUNDED 110 VAC POWER SOURCE

CONTROLLER CAN HAVE PIG-TAIL INSTALLED IF A LINE VOLTAGE OUTLET IS SUPPLIED ON SAME WALL THAT CONTROLLER IS TO BE INSTALLED ON

IRRIGATION CONTROLLER, WALL MOUNT

NOT TO SCALE



NOTE:
1. LOCATE VALVE BOXES IN PLANTING AREAS.
2. WRAP VALVE BOX WITH A MINIMUM OF 3 MIL THICK PLASTIC AND SECURE IT USING DUCT TAPE OR ELECTRICAL TAPE.
3. ALL THREADED CONNECTIONS TO BE MADE USING TEFLON TAPE.
4. ALL CHANGES IN ELEVATION SHALL BE MADE USING SCH 40 PVC 45° ELBOWS.

BALL VALVE DETAIL

NOT TO SCALE

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STATE OF MONTANA
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CUSTER AND WASHINGTON
WASHINGTON STREET
HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE:
RELEASE:

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SHEET
IRRIGATION DETAILS

SHEET NUMBER
L6

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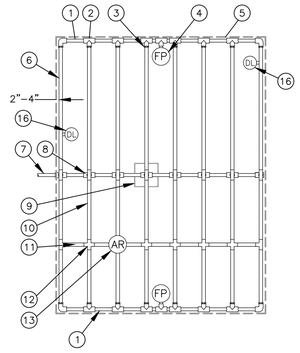
IRRIGATION DETAILS
FOR
CHICK-FIL-A HELENA

SECTION 20, TOWNSHIP. 10 NORTH, RANGE 3 WEST
HELENA, LEWIS AND CLARK COUNTY, MONTANA



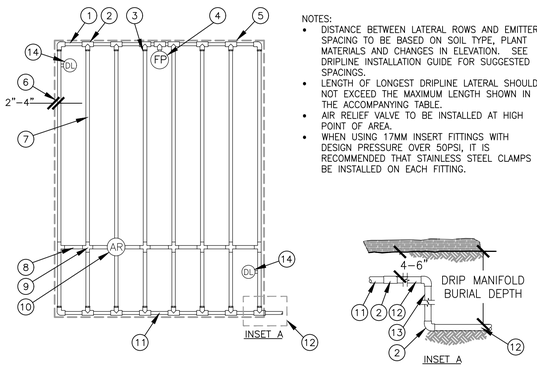
1. PVC EXHAUST HEADER
2. PVC SCH 40 TEE OR EL (TYPICAL)
3. BARB X MALE FITTING
4. FLUSH POINT (TYPICAL) SEE DETAIL
5. PERIMETER OF AREA
6. PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"–4" FROM PERIMETER OF AREA
7. PVC SUPPLY PIPE FROM CONTROL ZONE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
8. PVC SUPPLY MANIFOLD
9. CONNECTION FROM SUPPLY MANIFOLD TO DRIPLINE (TYPICAL)– SEE INSET A
10. SUB–SURFACE DRIPLINE
11. BLANK TUBING
12. BARB X BARB INSERT TEE OR CROSS:
13. ½" AIR RELIEF VALVE
14. BARB X FEMALE FITTING:
15. ¾" PVC NIPPLE, LENGTH AS NECESSARY
16. DRIPLINE INDICATOR. SEE DETAIL FOR ADDITIONAL INFORMATION

Dripline Maximum Lateral Lengths (Feet)

Inlet Pressure psi	12" Spacing Nominal Flow (gph)		18" Spacing Nominal Flow (gph)		24" Spacing Nominal Flow (gph)	
	0.6	0.9	0.6	0.9	0.6	0.9
15	273	155	314	250	424	322
20	318	169	353	294	508	368
30	360	230	413	350	586	414
40	395	255	465	402	652	474
50	417	285	528	420	720	488
60	460	290	596	455	780	514

NOTES:
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE IRRIGATION SCHEDULE FOR SPACING.
2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM LENGTH SHOWN IN THE ACCOMPANYING TABLE.
3. AIR RELIEF VALVE TO BE INSTALLED AT HIGH POINT OF AREA.
4. WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

DRIPLINE CENTER FEED LAYOUT
NOT TO SCALE



NOTES:
- DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE DRIPLINE INSTALLATION GUIDE FOR SUGGESTED SPACINGS.
- LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM LENGTH SHOWN IN THE ACCOMPANYING TABLE.
- AIR RELIEF VALVE TO BE INSTALLED AT HIGH POINT OF AREA.
- WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

1. PVC EXHAUST HEADER
2. PVC SCH 40 TEE OR EL (TYPICAL)
3. BARB X MALE FITTING:
4. FLUSH POINT (TYPICAL) SEE RAIN BIRD DETAIL 'FLUSH POINT WITH BALL VALVE'
5. PERIMETER OF AREA
6. PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"–4" FROM PERIMETER OF AREA
7. SUB–SURFACE DRIPLINE
8. BLANK TUBING
9. BARB X BARB INSERT TEE OR CROSS:
10. ½" AIR RELIEF VALVE
11. PVC SUPPLY HEADER
12. PVC DRIP MANIFOLD FROM CONTROL ZONE VALVE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
13. PVC SCH 40 RISER PIPE
14. DRIPLINE INDICATOR. SEE DETAIL FOR ADDT'L INFO

Dripline Maximum Lateral Lengths (Feet)

Inlet Pressure psi	12" Spacing Nominal Flow (gph)		18" Spacing Nominal Flow (gph)		24" Spacing Nominal Flow (gph)	
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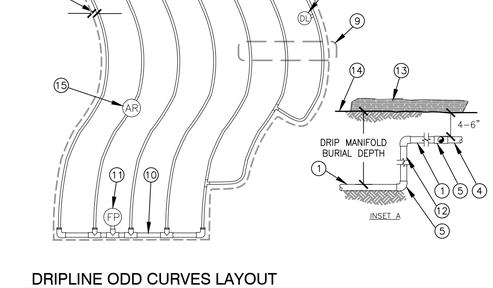
50	417	285	528	420	720	488
60	460	290	596	455	780	514

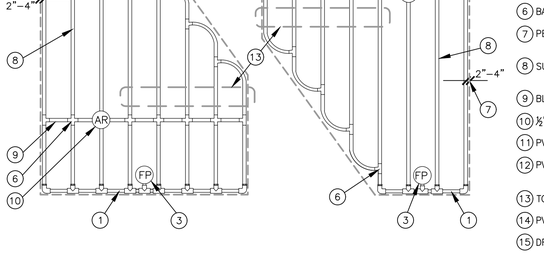
DRIPLINE END FEED LAYOUT
NOT TO SCALE



NOTES:
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE INSTALLATION SPECIFICATIONS FOR SPACING
2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING SHOWN IN THE ACCOMPANYING TABLE.
3. INSTALL AIR RELIEF VALVE AT HIGH POINTS IN DRIP LATERAL.
4. WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

1. PVC SUPPLY PIPE FROM RAIN BIRD CONTROL ZONE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
2. PERIMETER OF AREA
3. PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"–4" FROM PERIMETER OF AREA
4. PVC SUPPLY MANIFOLD
5. PVC SCH 40 TEE OR EL (TYPICAL)
6. BARB X MALE FITTING
7. SUB–SURFACE DRIPLINE: SEE IRRIGATION SCHEDULE
8. ARB X BARB INSERT TEE
9. TOTAL LENGTH OF SELECTED DRIPLINE SHOULD NOT EXCEED LENGTH SHOWN IN TABLE
10. PVC FLUSH HEADER
11. FLUSH POINT: SEE DETAIL
12. PVC RISER PIPE
13. TURF OR MULCH
14. FINISH GRADE
15. 1/2" AIR RELIEF VALVE: SEE DETAIL
16. DRIPLINE INDICATOR. SEE DETAIL FOR ADDT'L INFO

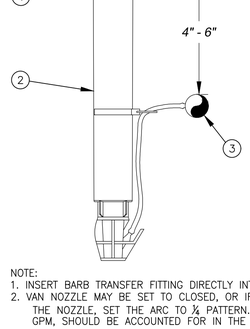
DRIPLINE ODD CURVES LAYOUT
NOT TO SCALE



1. PVC EXHAUST HEADER
2. PVC SCH 40 TEE OR EL (TYPICAL)
3. FLUSH POINT (TYPICAL) SEE DETAIL
4. BARB X MALE FITTING
5. PERIMETER OF AREA
6. BARB X BARB INSERT TEE OR CROSS
7. PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"–4" FROM PERIMETER OF AREA
8. SUB–SURFACE DRIPLINE: SEE IRRIGATION SCHEDULE
9. BLANK TUBING
10. ½" AIR RELIEF VALVE: SEE DETAIL
11. PVC SUPPLY MANIFOLD
12. PVC SUPPLY PIPE FROM CONTROL ZONE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
13. TOTAL LENGTH OF SELECTED DRIPLINE SHOULD NOT EXCEED LENGTH SHOWN IN TABLE
14. PVC SCH 40 RISER PIPE
15. DRIPLINE INDICATOR. SEE DETAIL FOR ADDT'L INFO

NOTES:
- DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE MANUFACTURER DRIPLINE INSTALLATION GUIDE FOR SUGGESTED SPACINGS.
- LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM LENGTH SHOWN IN THE ACCOMPANYING TABLE.
- AIR RELIEF VALVE TO BE INSTALLED AT HIGH POINT OF AREA.
- WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

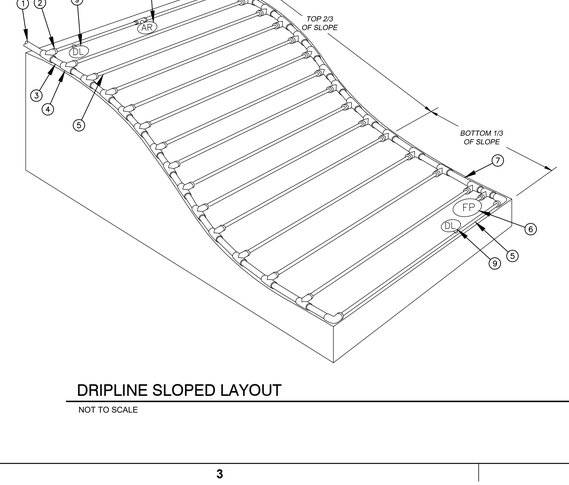
DRIPLINE IRREGULAR SHAPED LAYOUT
NOT TO SCALE



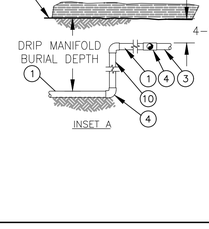
1. FINISH GRADE/TURF
2. OPERATION INDICATOR
3. SUB–SURFACE DRIPLINE: SEE IRRIGATION SCHEDULE

NOTE:
1. INSERT BARB TRANSFER FITTING DIRECTLY INTO DRIPLINE TUBING.
2. VAN NOZZLE MAY BE SET TO CLOSED, OR IF IT IS DESIRED TO SEE SPRAY FROM THE NOZZLE, SET THE ARC TO ¼ PATTERN. THE FLOW FROM THE NOZZLE, 0.3 GPM, SHOULD BE ACCOUNTED FOR IN THE SYSTEM DESIGN.

DRIP IRRIGATION DRIPLINE INDICATOR
NOT TO SCALE



DRIPLINE SLOPED LAYOUT
NOT TO SCALE



NOTES:
- DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. DISTANCE BETWEEN LATERAL ROWS FOR BOTTOM 1/3 OF SLOPE TO BE SPACED GREATER THAN OPTIMAL ROW DISTANCE. SEE MANUFACTURER DRIPLINE INSTALLATION GUIDE FOR SUGGESTED SPACING.
- LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM LENGTH SHOWN IN THE ACCOMPANYING TABLE.
- WHEN ELEVATION CHANGE EXCEEDS 8 FEET IT IS RECOMMENDED THAT A NEW DRIPLINE ZONE BE CREATED.
- INSTALL AIR RELIEF VALVE AT HIGH POINTS IN DRIP LATERAL.
- WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

1. PVC DRIP MANIFOLD FROM CONTROL ZONE VALVE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
2. BARB X MALE FITTING
3. PVC SUPPLY HEADER
4. PVC SCH 40 TEE OR EL (TYPICAL)
5. SUB–SURFACE DRIPLINE: SEE IRRIGATION SCHEDULE
6. FLUSH POINT: SEE DETAIL
7. PVC FLUSH HEADER
8. ½" AIR RELIEF VALVE: RSEE DETAIL
9. DRIPLINE INDICATOR. SEE DETAIL FOR ADDITIONAL INFORMATION
10. PVC RISER PIPE
11. TURF OR MULCH
12. FINISH GRADE

Know what's **below.**
Call before you dig.
Dial 811

PERMIT COPY
THIS SET OF APPROVED PLANS TO BE ON JOB SITE AT ALL TIMES

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia 30349-2998

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18215 72nd Avenue South
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425.251.6222
barghausen.com

STATE OF MONTANA
JEFF M. VARLEY
14368
REGISTERED
LANDSCAPE ARCHITECT
SIGNED 8/27/25

CHICK-FIL-A
CUSTER AND WASHINGTON
WASHINGTON STREET
HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE:
RELEASE:

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
-	8/27/25	PERMIT SUBMITTAL

FOR PERMIT

CONSULTANT PROJECT #	22725
PRINTED FOR	
DATE	08/27/2025
DRAWN BY	JMV

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SHEET
IRRIGATION DETAILS

SHEET NUMBER
L7

J:\22000s\22725\engineering\22725-L.dwg 8/9/2024 12:49 PM JVARLEY

ABBREVIATIONS

AB	ANCHOR BOLT
AC	AIR CONDITIONING
ACC	ACCESSIBLE
ACOUS	ACOUSTICAL
AD	AREA DRAIN
ADD	ADDITIONAL
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AGGR	AGGREGATE
ALT	ALTERNATE
ALUM	ALUMINUM
ANCH	ANCHOR
ANNO	ANODIZED
APC	ACOUSTICAL PANEL CEILING
APPD	APPROVED
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ATC	ACOUTSTICAL TILE CEILING
AUTO	AUTOMATIC
AV	AUDIO VISUAL
BEJ	BRICK EXPANSION JOINT
BD	BOARD
BLDG	BUILDING
BLK	BLOCK
BM	BEAM
BOT	BOTTOM
BRK	BRICK
BSMT	BASEMENT
BT	BOLT
BUR	BUILT-UP ROOFING
CAB	CABINET
CAT	CATEGORY
CB	CATCH BASIN
CBD	CHALK BOARD
CBU	CEMENTITIOUS BACKER UNIT
CEM	CEMENT
CER	CERAMIC
CG	CORNER GUARD
CH	CHILLER
CHAN	CHANNEL
CI	CAST IRON
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT / CONSTRUCTION JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
CO	CLEANOUT
COL	COLUMN
COMPART	COMPARTMENT
CONC	CONCRETE
COND	CONDITION
CONN	CONNECTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
CT	CERAMIC TILE / COOLING TOWER
CTR	CENTER
CTSK	COUNTER SUNK
CW	COLD WATER (PIPING)
D	DEEP, DEPTH
DA	DISABLED
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIFF	DIFFUSER
DIM	DIMENSION
DIS	DISABLED
DISP	DISPENSER
DMPF	DAMPPROOFING
DMT	DEMOUNTABLE
DN	DOWN
DO	DOOR OPENING
DP	DIMENSION POINT
DPTN	DEMOUNTABLE PARTITION
DR	DOOR
DRN	DRAIN
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING
DWR	DRAWER
(E)	EXISTING
E	EAST
EA	EACH
EB	EXPANSION BOLT
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EFS	EXTERIOR FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMERG	EMERGENCY
ENCLO	ENCLOSURE
EP	ELECTRICAL PANELBOARD
EQ	EQUAL
EQUIP	EQUIPMENT
ESCAL	ESCALATOR
EWC	ELECTRICAL WATER COOLER
EXH	EXHAUST
EXP	EXPANSION
EXIST	EXISTING
EXT	EXTERIOR
FA	FIRE ALARM
FB	FACE BRICK
FC	FACE
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FND	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF&E	FURNITURE, FINISHES & EQUIPMENT
FFEL	FINISH FLOOR ELEVATION
FH	FLAT HEAD
FHC	FIRE HOSE CABINET
FIN	FINISH
FIXT	FIXTURE
FL	FLOOR
FLASH	FLASHING
FLUOR	FLUORESCENT
FO	FACE OF
FP	FIRE PROTECTION
FPG	FIREPROOFING
FR	FRAME
FT	FEET
FRTW	FIRE RETARDANT TREATED WOOD
FTG	FOOTING
FURN	FURNITURE
FURR	FURRING
FWC	FABRIC WALLCOVERING
GWP	FABRIC WRAPPED PANEL
G	GROUND
GA	GAUGE / GAGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACT(OR)
GRC	GLASS FIBER REINFORCED CONCRETE
GRG	GLASS FIBER REINFORCED GYPSUM
GL	GLASS
GR	GRADE
GRD	GROUND
GYPBD	GYPSUM WALLBOARD
H	HIGH / HEIGHT
HB	HOSE BIB
HC	HOLLOW CORE
HCP	HANDICAPPED
HDW	HARDWARE
HDWD	HARDWOOD
HS	HEAT STRENGTHEND (GLASS)
HM	HOLLOW METAL (STEEL FRAME)
HNDRL	HANDRAIL
HO	HOLD-OPEN
HORIZ	HORIZONTAL
HPT	HIGH POINT
HRC	HOSE REEL CABINET
HR	HOUR
HT	HEIGHT
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HW	HOT WATER
HYDR	HYDRAULIC
ID	INSIDE DIAMETER
IN	INCH
INCAND	INCANDESCENT
INCL	INCLUDED / INCLUDING
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
INTERM	INTERMEDIATE
INV	INVERT
IPS	INTERNATIONAL PIPE STANDARD
IRMA	INVERTED ROOF MEMBRANE ASSEMBLY
JAN	JANITOR
JC	JANITOR'S CLOSET
JST	JOIST
JT	JOINT
K	KIP (1000 LBF)
KPL	KICK PLATE
KG	KILOGRAM
KIT	KITCHEN
KO	KNOCKOUT
L	LONG OR LITER (METRIC DOCS)
LAB	LABORATORY
LDG	LANDING
LAM	LAMINATE / LAMINATION
LAV	LAVATORY
LB	POUND
LF	LINEAR FOOT
LKR	LOCKER
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LN	LINE
LT	LIGHT
LPT	LOW POINT
M	METER
MACH	MACHINE
MAINT	MAINTENANCE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MBL	MARBLE
MDF	MEDIUM DENSITY FIBERBOARD
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MDO	MEDIUM DENSITY OVERLAY PLYWOOD
MECH	MECHANICAL
MEMB	MEMBRANE
MET	METAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MM	MILLIMETER
MO	MASONRY OPENING
MS	MACHINE SCREW
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MULL	MULLION
N	NORTH
NA	NOT APPLICABLE
NC	NOISE CRITERIA
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OC	ON CENTER
OCEW	ON CENTER EACH WAY
OD	OUTSIDE DIAMETER/DIMENSION
OFCI	OWNER FURNISHED, CONTR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OFF	OFFICE
OH	OVER HEAD
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OPPHD	OPPOSITE HAND
ORD	OVERFLOW ROOF DRAIN
OUTS	OUTSIDE
OVHD	OVERHEAD
P	PAINT
PAV	PAVING
PARTN	PARTITION
PATD	PAPER TOWEL DISPENSER
PBD	PARTICLEBOARD
PC	PRECAST CONCRETE
PDF	POWER DRIVEN FASTENER
PERF	PERFORATED
PERIM	PERIMETER
PERP	PERPENDICULAR
PF	POINT OF INTERSECTION
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
PNL	PANEL
POL	POLISHED
PR	PAIR
PREFAB	PREFABRICATED
PROJ	PROJECT
PSF	POUNDS PER SQUARE FOOT
PT	POINT
PTD	PAINTED
PTN	PARTITION
PTR	PAPER TOWEL RECEPTACLE
QT	QUARRY TILE
QTY	QUANTITY
(R)	RELOCATED
R	RADIUS OR RISER (PIPING)
RA	RETURN AIR
RAD	RADIUS
RB	RESILIENT BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RECOM	RECOMMENDED
RECPT	RECEPTACLE
REC	RECESSED
REF	REFERENCE
REFL	REFLECTED / REFLECTIVE / REFLECT
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCED / REINFORCING
REL	RELOCATE
REM	REMOVABLE
REQ	REQUIRE / REQUIRED
RESIL	RESILIENT
REV	REVISION / REVISED
RM	ROOM
RO	ROUGH OPENING
RTD	RATED
RTG	RATING
RWL	RAIN WATER LEADER
S	SOUTH
SA	SUPPLY AIR
SAN	SANITARY
SC	SOLID CORE
SCHED	SCHEDULE
SD	STORM DRAIN / SOAP DISPENSER
SECT	SECTION
STS	SELF TAP METAL SCREW
SF	SQUARE FEET/FOOT
SH	SPRINKLER HEAD
SHT	SHEET
SHR	SHOWER
SIM	SIMILAR
SM	SHEET METAL OR SQUARE METER (METRIC DOCS)
SND	SANITARY NAPKIN DISPENSER
SP	STANDPIPE
SPEC	SPECIFICATION
SPR	SPRINKLER
SPKR	SPEAKER
SQ	SQUARE
SSE	STRUCTURE SLAB ELEVATION
SST	STAINLESS STEEL
SSK	SERVICE SINK
STA	STATION
STD	STANDARD
STL	STEEL
STLJST	STEEL JOIST
STOR	STORAGE
STRG	STRINGER
STRL	STRUCTURAL
STRUC	STRUCTURAL
SUBCAT	SUBCATEGORY
SUSP	SUSPENDED
SYMM	SYMMETRICAL
T	TREAD / THERMOSTAT
TB	TOWEL BAR
TC	TOP OF CURB
TCONC	TOP OF CONCRETE
TEL	TELEPHONE OR TELECOM
TEMP	TEMPERATURE
TER	TERRAZZO
TGB	TOGGLE BOLT
THK	THICKNESS
THRES	THRESHOLD
THRU	THROUGH
TKBD	TACKBOARD
TMPD	TEMPERED
TO	TOP OF (SEE OTHER WORD)
TOS	TOP OF SLAB, TOP OF STRUCTURE
TOSTL	TOP OF STEEL
TP	TOP OF PAVEMENT
TPD	TOILET PAPER DISPENSER
TRACT	TRACTION
TV	TELEVISION
TW	TOP OF WALL
TYP	TYPICAL
UNFIN	UNFINISHED
UON	UNLESS OTHERWISE NOTED
UR	URINAL
VAC	VENTILATION AND AIR CONDITIONING
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VR	VAPOR RETARDER
VT	VINYL TILE
VWC	VINYL WALL COVERING
W/	WITH
W	WIDE, WIDTH/WEST
WC	WATER CLOSET
WD	WOOD
WDS	WOOD SCREW
WDW	WINDOW
W/O	WITHOUT
WP	WATERPROOFING
WPM	WATERPROOF MEMBRANE
WPT	WORK POINT
WR	WATER RESISTENT/REPELLANT
WS	WEATHERSTRIPPING
WSCT	WAINSCOT
WT	WEIGHT
WW	WALL TO WALL

GENERAL PROJECT NOTES

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED SO AS TO COMPLY WITH ALL LEGAL, INDUSTRY AND PROJECT-SPECIFIC REQUIREMENTS AND STANDARDS INCLUDING WITHOUT LIMITATION OF THE FOLLOWING:

   A. ALL APPLICABLE BUILDING CODES
   B. ALL APPLICABLE SPECIALTY CODES INCLUDING THE MOST CURRENT ISSUES AND SUPPLEMENTS
   C. THE PROJECT MANUAL AND ASSOCIATED SPECIFICATIONS
   D. THE MANUFACTURER'S REQUIREMENTS OR RECOMMENDATIONS
   E. ALL APPLICABLE LANDLORD BUILDING STANDARDS

2. IN USING THESE PLANS FOR BIDDING OR CONSTRUCTION PURPOSES, ALL CONTRACTORS ARE REQUIRED TO REVIEW AND TREAT THEM AS A WHOLE IN ORDER TO IDENTIFY ALL REQUIREMENTS THAT DIRECTLY OR INDIRECTLY AFFECT THEIR PORTION OF THE WORK, EVEN REQUIREMENTS LOCATED IN SECTIONS DESIGNATED AS APPLICABLE TO OTHER TRADES OR IN DOCUMENTS PROVIDED BY OTHER MEMBERS OF THE PROJECT DESIGN TEAM. UNLESS EXPRESSLY PROVIDED OTHERWISE, THE INTENT IS TO INCLUDE ALL LABOR, MATERIALS, PRODUCTS AND SERVICES NECESSARY OR APPROPRIATE FOR THE COMPLETED PROJECT AS CALLED FOR OR REASONABLY IMPLIED FROM THE PLANS AND SPECIFICATIONS PROVIDED BY THE PROJECT'S DESIGN TEAM. IN CASE OF CONFLICTS OR OMISSIONS, THE AFFECTED CONTRACTOR IS REQUIRED TO EITHER OBTAIN DIRECTION FROM AN APPROPRIATE REPRESENTATIVE OF THE OWNER, OR OTHERWISE TO APPLY THE MORE STRINGENT OR COSTLY STANDARD.

3. IN INTERPRETING THESE PLANS, THE FOLLOWING GENERAL RULES APPLY:

   A. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS
   B. SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS
   C. WORK NOT PARTICULARLY SHOWN OR SPECIFIED SHALL BE THE SAME AS SIMILAR PARTS THAT ARE SHOWN AND SPECIFIED
   D. WORK SHOWN AS "NIC" IS FOR REFERENCE ONLY AND THE RESPONSIBILITY OF THE CONTRACTOR ONLY TO THE EXTENT THAT THIS WORK MAY REQUIRE SOME REASONABLE PROTECTION OR COORDINATION EFFORTS.

4. THESE PLANS AND SPECIFICATIONS ARE INTENDED TO REPRESENT ONLY THE FINISHED CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION AND DEMOLITION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES INCLUDING ANY AND ALL SAFETY PRECAUTIONS AND PROGRAMS, AND SHALL INDEMNIFY TO THE FULLEST EXTENT ALLOWED BY LAW THE OWNER AND THE PROJECT DESIGN TEAM FROM AND AGAINST ANY AND ALL RELATED CLAIMS AND LIABILITY.

5. THESE PLANS AND SPECIFICATIONS ARE INTENDED TO SET FORTH THE REQUIREMENTS FOR CONSTRUCTION IN ONLY AN INDUSTRY-STANDARD LEVEL OF QUALITY AND DETAIL, AND THEY ARE INTENDED TO BE SUPPLEMENTED BY APPROPRIATE REQUESTS FOR INFORMATION (RFIs). ERRORS AND OMISSIONS ARE TO BE EXPECTED AND ANTICIPATED, AND ALL CONTRACTORS ARE REQUIRED TO CAREFULLY REVIEW THESE PLANS FOR ERRORS AND OMISSIONS AND TO BRING THESE ERRORS AND OMISSIONS TO THE ATTENTION OF AN APPROPRIATE OWNER REPRESENTATIVE IN A TIMELY MANNER; AND ANY CONTRACTOR WHO FAILS TO DO SO BEFORE BIDDING OR OTHERWISE PROCEEDING ASSUMES THE RISK OF ANY CONSEQUENCES.

6. SCALED DIMENSIONS SHOULD BE CONSIDERED ONLY APPROXIMATE, AND IN ANY EVENT ALL CONTRACTORS PROCEED AT THEIR OWN RISK IF THEY FAIL TO VERIFY AND FIELD MEASURE DIMENSIONS BEFORE PROCEEDING WITH ANY AFFECTED PROCUREMENT, FABRICATION OR CONSTRUCTION.

7. PLANS ARE TO BE CONSIDERED DIAGRAMMATIC IN NATURE AND INTENDED ONLY TO DEMONSTRATE THE RELATIONSHIP AMONG COMPONENT PARTS, AND NOT TO DEPICT SPECIFIC LOCATIONS.

8. CONTRACTOR RFI's ARE INTENDED TO OBTAIN INFORMATION NOT AVAILABLE FROM THE PLANS AND SPECIFICATIONS. RFI's WILL NOT BE PROCESSED THAT CAN BE ANSWERED BY A REVIEW OF THESE DOCUMENTS, THAT REQUEST DIMENSIONS THAT CAN BE OBTAINED FROM THE PLANS BY MATHEMATICAL CALCULATION THAT ARE IN EFFECT A SUBSTITUTION SUBMITTAL, OR THAT SEEK DIRECTION CONSTRUCTION MEANS AND METHODS OR SAFETY PRECAUTIONS. WHERE APPROPRIATE, RFI's SHOULD BE SPECIFIC AS TO WHICH PORTION OF THE PLANS AND SPECIFICATIONS NEEDS CLARIFICATION, AND WHAT INFORMATION IS REQUIRED.

9. NO DEVIATIONS OR OMISSIONS FROM THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS PROVIDED BY THE PROJECT'S DESIGN TEAM ARE ALLOWED WITHOUT THE EXPRESSED AUTHORIZATION OF AN APPROPRIATE OWNER REPRESENTATIVE, AND THE RESPONSIBLE CONTRACTOR WILL INDEMNIFY AND HOLD HARMLESS THE OWNER AND THE PROJECT DESIGN TEAM FROM AND AGAINST THE CONSEQUENCES OF ANY UNAUTHORIZED DEVIATIONS OR OMISSIONS. SUBSTITUTION SUBMITTALS WILL BE CONSIDERED ONLY IF THE PROPOSED SUBSTITUTION IMPROVES THE QUALITY OF THE PROJECT TO THE OWNER; AND IN NO EVENT WILL THE OWNER BE REQUIRED TO AUTHORIZE A SUBSTITUTION THAT IS NOT EQUAL IN QUALITY TO WHAT IS SPECIFIED.

10. DESIGN/BUILD CONTRACTOR SUBMITTALS WILL BE REVIEWED BY THE PROJECT DESIGN TEAM, IF AT ALL, ONLY FOR CONFORMANCE WITH THE AESTHETIC ASPECTS AND MAJOR SPACE LIMITATIONS OF THE PROJECT; AND EACH DESIGN/BUILD CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING:

    A. PREPARING ALL THE ENGINEERING AND OTHER DRAWINGS AND SPECIFICATIONS FOR THE COMPONENTS OF ITS DESIGN/BUILD UNDERTAKING.
    B. COMPLYING WITH THE PROJECT'S REQUIREMENTS AND SPACE LIMITATIONS.
    C. COORDINATION AND INTERFACING WITH OTHER TRADES AND CONSULTANTS.
    D. OBTAINING ANY REQUIRED OR APPROPRIATE APPROVALS FROM AUTHORITIES HAVING JURISDICTION OVER THE PROJECT.
    E. HAVING THEIR DESIGN CONSULTANTS SERVE AS THE PROFESSIONAL OF RECORD FOR THE PORTIONS OF WORK WHICH THEY DESIGN.

11. AT THE CONCLUSION OF THE CONSTRUCTION, EACH PRIME CONTRACTOR SHALL PROVIDE SUCH WRITTEN CERTIFICATION THAT THE CONSTRUCTION HAS BEEN PERFORMED IN COMPLIANCE WITH THE PROJECT'S APPROVED PLANS AND SPECIFICATIONS AS THE BUILDING OFFICIAL WITH JURISDICTION OVER THE PROJECT MAY REQUIRE, OR AS THE OWNER MAY REASONABLY REQUEST.

12. VERSIONS OF THESE PLANS PROVIDED IN ANY ELECTRONIC FORM ARE SUBJECT TO THE SAME PROVISION AS THE OTHER INSTRUMENTS OF SERVICE PREPARED BY OR ON BEHALF OF THE PROJECT DESIGN TEAM, INCLUDING WITHOUT LIMITATION THEIR COMMON LAW, STATUTORY OR OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS. A RECIPIENT IS GRANTED AT MOST A TRANSFERABLE NONEXCLUSIVE LICENSE TO REUSE THE PLANS SOLELY FOR PROJECT PURPOSES; AND NO RECIPIENT IS AUTHORIZED TO USE OR TO ALLOW THE USE OF ALL OR ANY PORTION OF THESE PLANS FOR ANY OTHER PURPOSE, AND ANY OTHER USE FOR ANY OTHER PURPOSE COULD CONSTITUTE ACTIONABLE PLAGIARISM. ANY ELECTRONIC DOCUMENTS WILL BE PROVIDED IN THE RESPONSIBLE DESIGN PROFESSIONAL'S STANDARD FORMATS AND CONVENTIONS AND WITH NO GUARANTEE OF THE ABSENCE OF VIRUSES OR OTHER HARMFUL MATERIAL, OR OF COMPATIBILITY WITH ANY RECIPIENT'S SOFTWARE OR HARDWARE SO THAT ANY USE WITH OR CONVERSION TO THE OTHER FORMS OR CONVENTIONS, OR THE USE WITH ANY PARTICULAR SOFTWARE OR HARDWARE, IS AT THE RECIPIENT'S SOLE RISK.

JOB SITE NOTES

1. WHERE EXISTING TENANTS/BUSINESSES ARE ADJACENT TO THE JOB SITE/TENANT, THE CONTRACTOR SHALL MINIMIZE CONSTRUCTION NOISE - EXTREMELY NOISY CONSTRUCTION SHALL OCCUR AT NON-TYPICAL BUSINESS HOURS. CONTRACTOR SHOULD NOTIFY BUILDING REPRESENTATIVE OF SPECIAL CIRCUMSTANCES IN ADVANCE PRIOR TO WORK.

2. THE CONTRACTOR AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AND SURROUNDING AREA FREE FROM DUST AND DEBRIS. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR AND WATER POLLUTION CONTROL STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH.

3. CONSTRUCTION DEBRIS AND WASTES SHALL BE DEPOSITED AT AN APPROPRIATE SITE. THE CONTRACTOR SHALL INFORM THE BUILDING REPRESENTATIVE OF THE LOCATION OF DISPOSAL SITES.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE GENERAL CLEANING OF THE JOB AFTER ITS COMPLETION. WHERE APPLICABLE, CLEANING SHALL INCLUDE, BUT NOT BE LIMITED TO, THE EXTERIOR AND THE INTERIOR OF THE BUILDING, THE PATH OF TRAVEL TO THE JOB SITE, PARKING LOTS, ELEVATORS, LOBBIES, AND CORRIDOR CARPETS.

5. THE CONTRACTOR SHALL PROVIDE PEDESTRIAN PROTECTION, WHERE REQUIRED PER STATE AND LOCAL CODES.

6. IF TRENCHES OR EXCAVATIONS 5'-0" OR MORE IN DEPTH ARE REQUIRED, OBTAIN ISSUANCE OF A BUILDING OR GRADING PERMIT.

7. NO HAZARDOUS MATERIALS SHALL BE USED OR STORED WITHIN THE BUILDING WHICH DOES NOT COMPLY WITH THE LOCAL FIRE AUTHORITY AND STATE & COUNTY REQUIREMENTS.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR BLOCKING OFF SUPPLY AND RETURN AIR GRILLES, DIFFUSERS & DUCTS TO KEEP DUST FROM ENTERING INTO BUILDING AIR DISTRIBUTION SYSTEMS.

9. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF THE OCCUPANTS AND WORKERS AT ALL TIMES.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE BUILDING AND SITE WHILE JOB IS IN PROGRESS AND UNTIL THE JOB IS COMPLETED.

DRAWING NOTES

1. UNLESS OTHERWISE NOTED OR INDICATED, ALL DIMENSIONS ON THESE DOCUMENTS SHALL BE TO FACE OF CURB, FACE OF CONCRETE OR MASONRY, FACE OF FINISH OR CENTERLINE OF GRIDS.

2. ALL VERTICAL DIMENSIONS SHOWN ARE FROM FLOOR SLAB, U.O.N.

3. DIMENSIONS SHOWN IN FIGURES TAKE PRECEDENCE OVER DIMENSIONS SCALED FROM DRAWINGS. LARGE SCALE DRAWINGS AND DETAILS TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.

4. THE TERM "ALIGN", AS USED IN THESE DOCUMENTS, SHALL MEAN TO ACCURATELY LOCATE FINISHES IN THE SAME PLANE.

5. "TYPICAL" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS THE SAME OR REPRESENTATIVE FOR ALL SIMILAR CONDITIONS THROUGHOUT, U.O.N.

6. DETAILS ARE USUALLY KEYED AND NOTED "TYPICAL" ONLY ONCE, WHEN THEY FIRST OCCUR AND ARE REPRESENTATIVE OF ALL SIMILAR CONDITIONS THROUGHOUT, U.O.N.

7. COLUMN CENTERLINES (GRID LINES) ARE SHOWN FOR DIMENSIONING PURPOSES.

8. WHERE CONSTRUCTION DETAILS ARE NOT SHOWN OR NOTED FOR ANY PART OF THE WORK, THE DETAILS SHALL BE THE SAME AS FOR OTHER SIMILAR WORK IN THE SAME BUILDING.

INTERIOR/EXTERIOR NOTES

1. WHERE ELECTRICAL, MECHANICAL AND/OR PLUMBING ITEMS, SUCH AS LIGHTS, DUCTS, PIPING, DOWNSPOUTS, ETC; ARE TO PENETRATE ANY BUILDING FOOTINGS, SLABS, FLOORS, STRUCTURAL FRAMING, WALL PARTITIONS, CEILINGS, ETC., IT IS REQUIRED THAT AN APPROPRIATELY SIZED OPENING OR CLEARANCE BE FURNISHED. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL ITEMS WITH THE CONSTRUCTION DOCUMENTS PRIOR TO THE INSTALLATION OF STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL WORK. ANY CONFLICT OR DISCREPANCY WITHIN CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION.

2. CONTRACTOR, ALONG WITH MECHANICAL CONTRACTOR, SHALL PROVIDE AND LOCATE ACCESS DOORS/PANELS IN WALL & CEILING CONSTRUCTION AS REQUIRED TO PROVIDE ACCESS TO MECHANICAL, FIRE SPRINKLER, PLUMBING & ELECTRICAL WORK. CONTRACTOR SHALL SUBMIT A PLAN OF ALL PROPOSED ACCESS PANEL LOCATIONS TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.

3. ALL PENETRATIONS AT RATED CONSTRUCTION SHALL BE PROTECTED TO MAINTAIN RATING.

4. WHERE OCCURS, CONTRACTOR SHALL PATCH ANY EXISTING WALLS AND/OR CEILINGS AS NEEDED TO REFURBISH THE LEASE SPACE AND REPAIR ALL DAMAGES CAUSED BY CONTRACTOR.

5. INTERIOR WALLS AND CEILINGS SHALL BE INSTALLED IN ACCORDANCE TO STATE & LOCAL CODES, INCLUDING REQUIREMENTS FOR FLAME SPREAD AND SMOKE DENSITY RATINGS FOR FINISH MATERIALS.

6. WHEN USED, ALL NOISE BARRIER BATTS (SOUND INSULATION) AND INSULATION BATTS SHALL BE NON-COMBUSTIBLE AND SHALL NOT CONTAIN OR UTILIZE OZONE DEPLETING COMPOUNDS.

7. ALL NEW CONSTRUCTION MATERIALS SHALL BE 100% ASBESTOS-FREE.

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5200 Buffington Road
Atlanta, Georgia
30349-2998

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KEVIN T. EVERNHAM 3199 SCOTTSDALE, AZ
STATE OF MONTANA
REGISTERED ARCHITECT
11/12/2025

CHICK-FIL-A
CUSTER & WASHINGTON
2770 N WASHINGTON STREET HELENA, MONTANA 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
PRINTED FOR

PERMIT RESUBMITTAL

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

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THIS SET OF APPROVED PLANS TO BE ON JOB SITE AT ALL TIMES

CONSULTANT PROJECT # LAX22-0129-01
DATE 10/20/2025
DRAWN BY M.M.O./ K.G.

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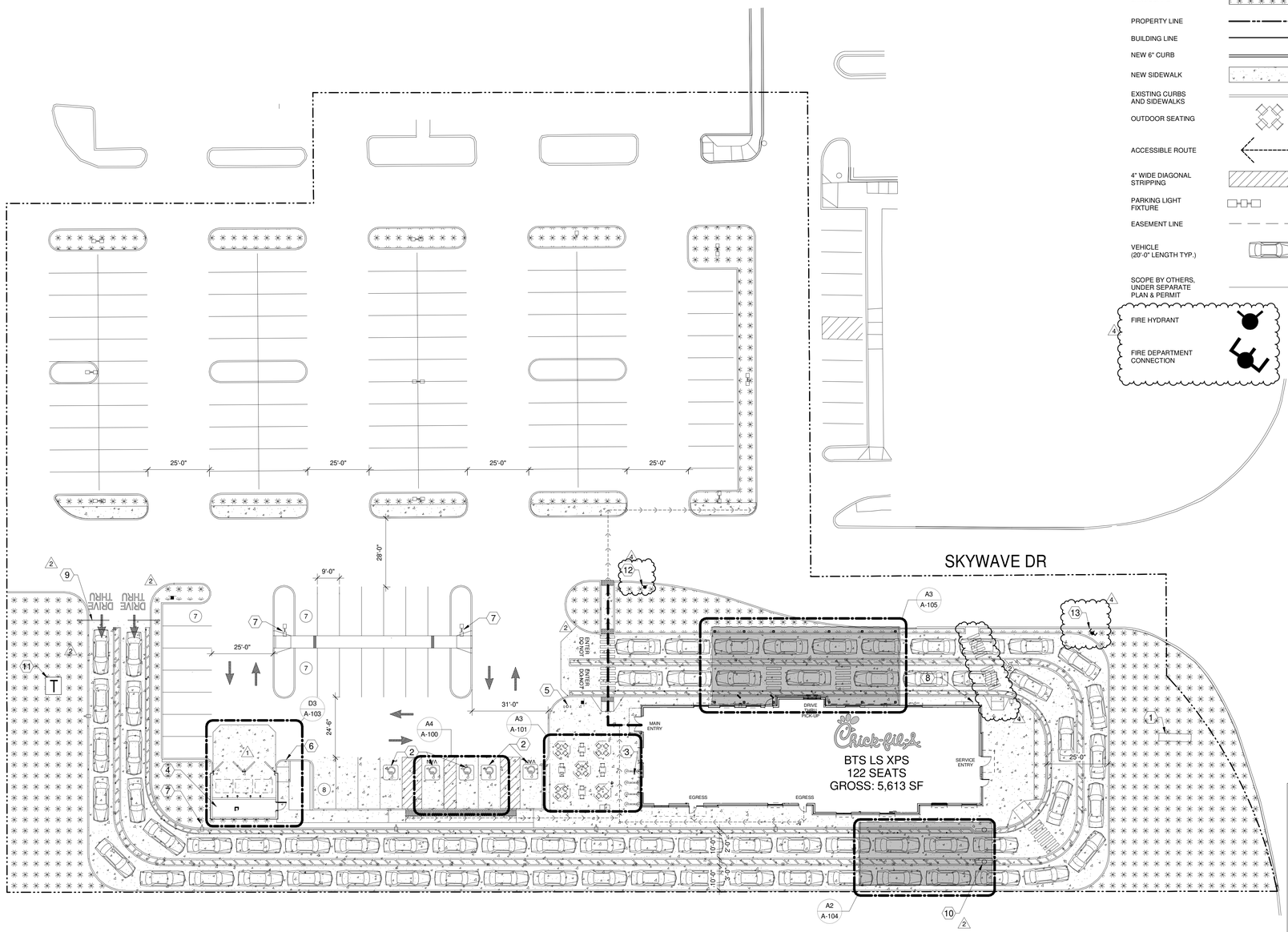
SHEET
GENERAL NOTES AND ABBREVIATIONS

SHEET NUMBER
A-001

11/12/2025 2:18:50 PM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_ARC.rvt
10-LS-05484-A-001-GENERAL NOTES AND ABBREVIATIONS



SITE PLAN LEGEND

- LANDSCAPE
- PROPERTY LINE
- BUILDING LINE
- NEW 6" CURB
- NEW SIDEWALK
- EXISTING CURBS AND SIDEWALKS
- OUTDOOR SEATING
- ACCESSIBLE ROUTE
- 4" WIDE DIAGONAL STRIPPING
- PARKING LIGHT FIXTURE
- EASEMENT LINE
- VEHICLE (20'-0" LENGTH TYP.)
- SCOPE BY OTHERS, UNDER SEPARATE PLAN & PERMIT
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION

GENERAL NOTES

FOR ACCESSIBLE ROUTE MAX SLOPE 5% AND CROSS SLOPE (2%) ALONG PATH AND 2% SLOPE IN ANY DIRECTION AT EACH TURN AND INTERSECTION OF THE PATH OF TRAVEL.

SITE PLAN KEYNOTES

1	EXISTING MONUMENT SIGN. SIGNAGE PER SIGNAGE PACKAGE, TYP.
2	ADA PARKING.
3	SHORT-TERM BIKE PARKING.
4	LOCATION OF LONG-TERM BIKE STORAGE.
5	FLAG POLE w/ GROUND MOUNTED LIGHTS. SEE E3/A-503
6	ACCESSIBLE PEDESTRIAN RAMP.
7	LOT LIGHT
8	MDP LOCATION. PROVIDE 4' HOUSEKEEPING CURB
9	CLEARANCE BAR
10	DRIVE-THRU MENU BOARDS
11	TRANSFORMER PAD LOCATION. RE: CIVIL

PROJECT DATA:

SITE AREA GROSS:	121,896 SF 2.80 AC	
BUILDING FOOTPRINT:		
CHICK-FIL-A	5,613 SF	
CANOPY @PICKUP WINDOW	2,353 SF	
CANOPY @ORDER POINT	1,390 SF	
TOTAL FOOTPRINT:	9,356 SF	
COVERAGE: GROSS:	7%	
PARKING REQUIRED:		
RESTAURANT	5,613 SF	80 STALLS

* 14 PARKING SPACE PER 1000 SF OF GROSS FLOOR AREA FOR DRIVE-THRU RESTAURANTS WITH 21 OR MORE SEATS.
** REQUIRED NUMBER ADA PARKING SPACES IS CALCULATED PER 2021 ICC AND IS BASED ON THE PROVIDED NUMBER OF TOTAL PARKING SPACES.

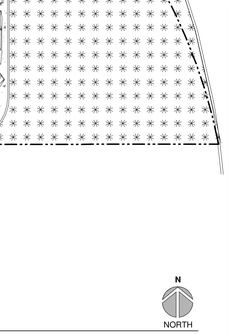
PARKING PROVIDED:	138 STALLS
AUTO:	@24.43/1000 SF
REQ. ACCESSIBLE:	5 STALLS
DT CAR STACK	67 CARS
OP CANOPY	9TH CAR AT INNER LANER

DEVELOPMENT STANDARDS:

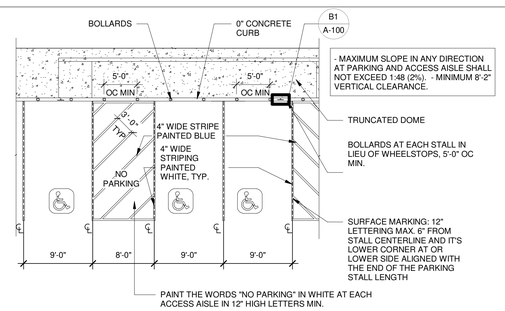
ZONING:	B2
MAX. HEIGHT:	75'-0" FT
BUILDING SETBACKS:	
NORTH:	0'-0" FT
SOUTH:	0'-0" FT
EAST:	0'-0" FT
WEST:	0'-0" FT
LANDSCAPE SETBACKS:	
NORTH:	0'-0" FT
SOUTH:	0'-0" FT
EAST:	0'-0" FT
WEST:	0'-0" FT
LANDSCAPE REQ:	30 SF/VEHICLE STALL
OFF-STREET PARKING:	
STANDARD (9X20):	138
COMPACT (8X16):	0
EV READY:	2
EVCS:	2
SHORT TERM BIKE REQUIRED	9
SHORT TERM BIKE PROVIDED	10

N
NORTH

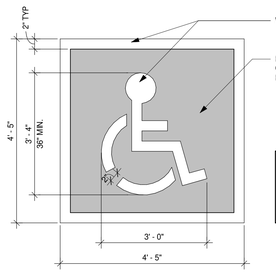
B4 SITE PLAN
1" = 20'-0"



B1 VAN ACCESSIBLE SIGNAGE
1 1/2" = 1'-0"

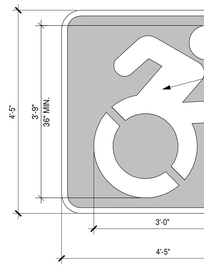


A4 ACCESSIBLE PARKING SPACES DETAIL
1/8" = 1'-0"



NOTE:
CENTER SYMBOL IN EACH DISABLED ACCESS STALL. INSTALL SYMBOL FLUSH W/PAVING @ ACCESSIBLE PARKING STALL

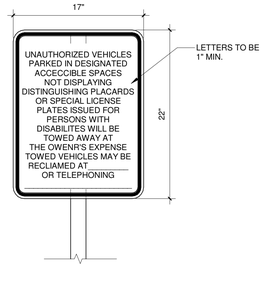
A3 ACCESSIBLE STALL SYMBOL
1" = 1'-0"



NOTE:
CENTER SYMBOL IN EACH ACCESSIBLE STALL.

ALIGN BOTTOM OF SIGN WITH END OF PARKING SPACE LENGTH.

A2 SYMBOL OF ACCESSIBILITY
3/4" = 1'-0"



A1 EV PARKING SPACES DETAIL
1 1/2" = 1'-0"

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3199
SCOTTSDALE, AZ
STATE OF MONTANA
11/12/2025

CHICK-FIL-A
CUSTER & WASHINGTON

2770 N WASHINGTON STREET
HELENA, MONTANA 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	2024-07-11	PLAN CHECK - REV 1
2	2025-08-22	PLAN CHECK - REV 2
4	2025-10-20	PLAN CHECK - REV 4

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CONSULTANT PROJECT # LAX22-0129-01
DATE 10/20/2025
DRAWN BY M.M.O./ K.G.

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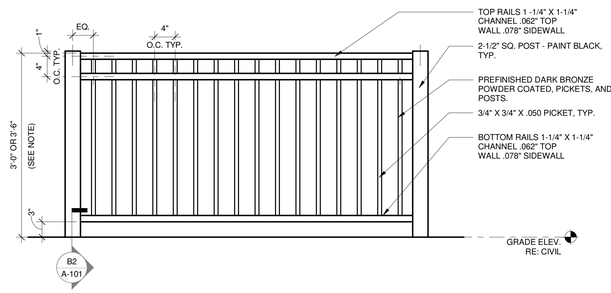
SHEET
SITE PLAN

SHEET NUMBER
A-100

11/12/2025 2:18:52 PM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_ARC.rvt
8-LS-05484-A-100-SITE PLAN

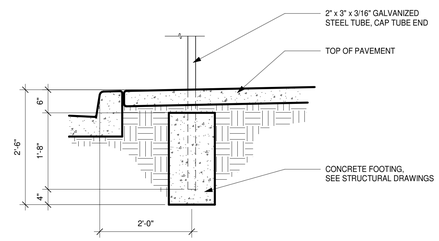
PATIO SEATING SCHEDULE

Mark	Type	Count	Manufacturer	Model	Width	Depth	Height	Material	Finish
1	PATIO CHAIR	28	BENCHMARK DESIGN GROUP	WENDOVER CHAIR 1555					
2	PATIO TABLE - 4 TOP	4	BENCHMARK DESIGN GROUP	TAB3055-3636-AAL-WJ-UH-BDT	3'-0"	3'-0"	2'-5 1/4"	ALUMINIM - DARK BRONZE	RAL 49/66220 (C34 BRONZE ONE COAT)
3	PATIO TABLE - 4 TOP - ADA	1	BENCHMARK DESIGN GROUP	TBL3056-3644-AL-UH	3'-8"	3'-0"	2'-5 1/4"	ALUMINIM - DARK BRONZE	RAL 49/66220 (C34 BRONZE ONE COAT)
4	PATIO TABLE - 2 TOP	4	BENCHMARK DESIGN GROUP	TAB3055-2424-AAL-WJ-BDT	2'-0"	2'-0"	2'-5 1/4"	ALUMINIM - DARK BRONZE	RAL 49/66220 (C34 BRONZE ONE COAT)
5	PATIO UMBRELLA	5	TUUCI	OCEAN MASTER PARASOL					
6	TRASH RECEPTACLE	2	BENCHMARK DESIGN GROUP	CFA-AL-2444	2'-0"	2'-0"	3'-11"	DARK BRONZE	RAL 49/66220 (C34 BRONZE ONE COAT)
8	BIKE RACK - SURFACE MOUNT	5	BELSON OUTDOORS	ORN-2-SF-P	5'-4"	2 3/8"	3'-9"	STEEL	BLACK POWDER COATED

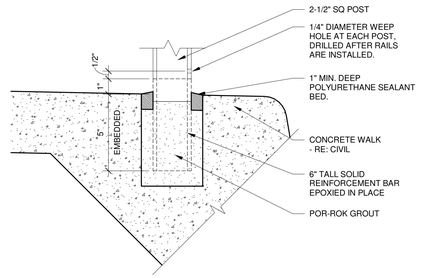


NOTES:
1. 3'-0" HANDRAIL HEIGHT TO BE USED ALONG OPEN SIDED LEVEL WALKING SURFACES THAT ARE LOCATED LESS THAN 2'-6" ABOVE A FLOOR OR GRADE BELOW. 3'-6" GUARDRAIL HEIGHT REQUIRED ALONG OPEN SIDED LEVEL WALKING SURFACES THAT ARE LOCATED 2'6" OR GREATER ABOVE A FLOOR OR GRADE BELOW OR WHERE REQUIRED BY A.H.J. OR OTHER GOVERNING CODE/REGULATION. ARCHITECT TO VERIFY SITE SPECIFIC CONDITIONS & COORDINATE.
2. ALL ALUMINUM TO BE .062" TOP WALL, .078 SIDE WALL
3. USE ONLY COMMERCIAL GRADE ALUMINUM FENCING WITH DARK BRONZE POWDER COAT FINISH.

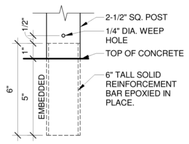
D1 TYP ALUMINUM RAILING
1" = 1'-0"



C1 TYPICAL SIGN FOUNDATION
3/4" = 1'-0"



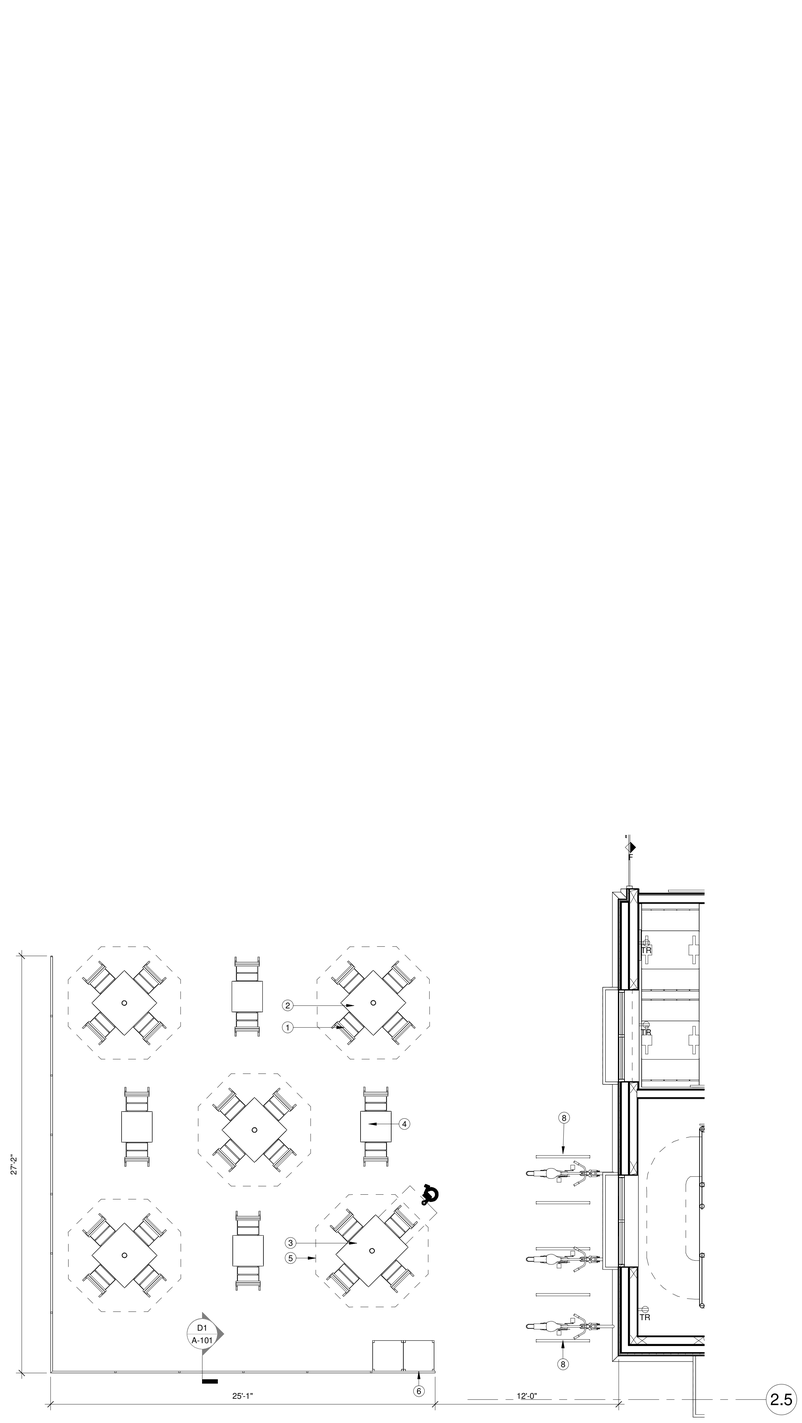
B2 TYP EXTERIOR RAILING FIELD EMBEDMENT DETAIL
3" = 1'-0"



WEEP HOLE NOTE:

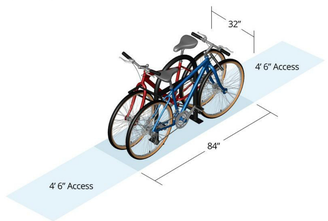
ALL POSTS GROUTED INTO CONCRETE MUST HAVE A 1/4" DIAMETER WEEP HOLE LOCATED JUST ABOVE THE MOUNTING SURFACE AND ALONG THE PLANE OF THE RAIL. WEEP HOLES WILL NEED TO BE DRILLED AFTER RAILS HAVE BEEN INSTALLED.

B1 EMBEDDED POST DETAIL
3" = 1'-0"



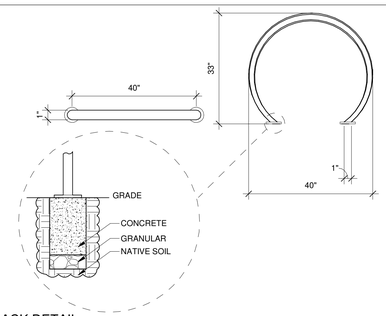
A3 PATIO PLAN
1/4" = 1'-0"

BIKE PARKING FOOTPRINT



BIKE PARKING SEATBACKS

A2 BIKE RACK
12" = 1'-0"



A1 BIKE RACK DETAIL
1 1/2" = 1'-0"

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5200 Buffington Road
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PLANNING
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LANDSCAPE
BUILDING MEASUREMENT

KEVIN T. EVERNHAM 3199
SCOTTSDALE, AZ
STATE OF MONTANA
REGISTERED ARCHITECT
11/12/2025

CHICK-FIL-A
CUSTER & WASHINGTON

2770 N WASHINGTON STREET
HELENA, MONTANA 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION

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CONSULTANT PROJECT # LAX22-0129-01
DATE 10/20/2025
DRAWN BY M.M.O./ K.G.

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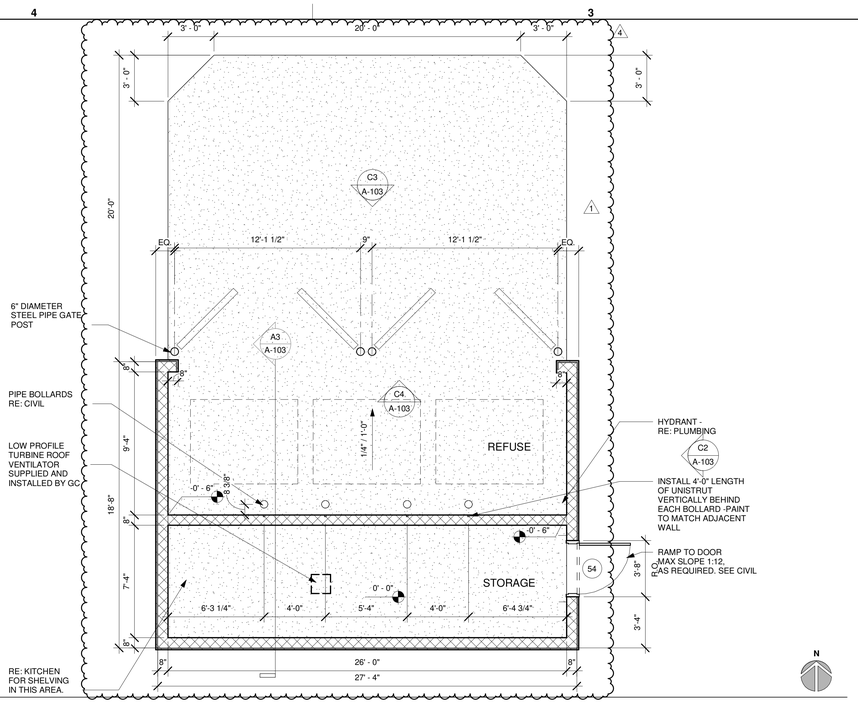
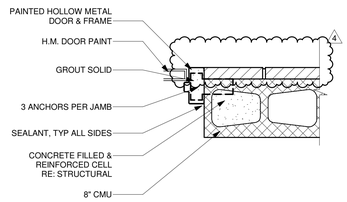
SHEET
PATIO PLANS

SHEET NUMBER
A-101

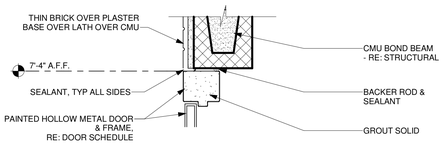
11/12/2025 2:18:56 PM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_ARC.rvt
10-LS-05484-A-101-PATIO PLANS



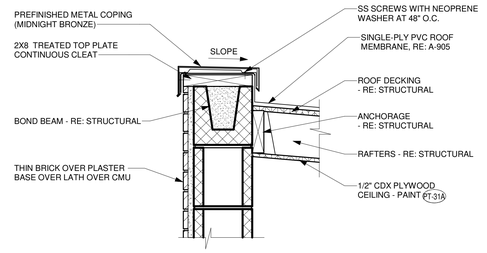
D3 REFUSE ENCLOSURE PLAN
1/4" = 1'-0"



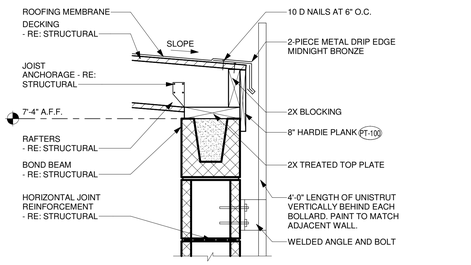
E2 REFUSE ENCLOSURE DOOR JAMB DETAIL
1 1/2" = 1'-0"



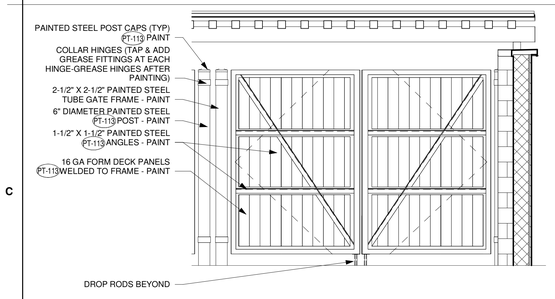
E1 REFUSE ENCLOSURE DOOR HEAD DETAIL
1 1/2" = 1'-0"



D2 REFUSE ENCLOSURE ROOF EDGE DETAIL
1 1/2" = 1'-0"

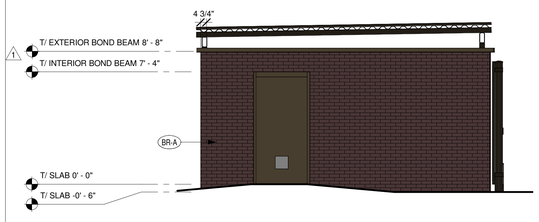


D1 REFUSE ENCLOSURE DRIP EDGE
1 1/2" = 1'-0"

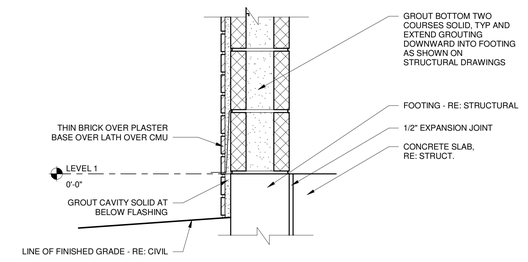


C4 REFUSE ENCLOUSURE GATE REAR ELEVATION
3/8" = 1'-0"

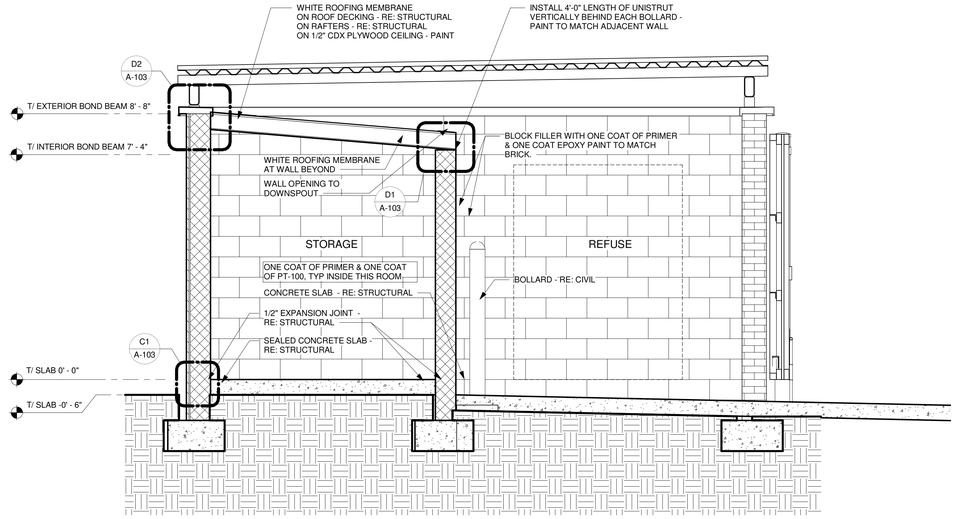
C3 REFUSE ENCLOSURE ELEVATION - NORTH
1/4" = 1'-0"



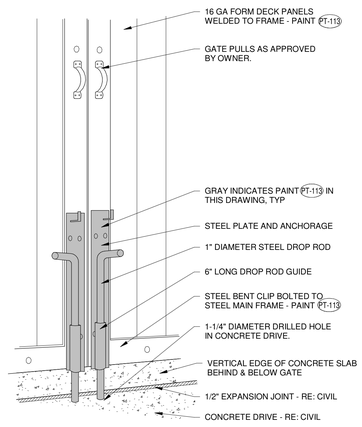
C2 REFUSE ENCLOSURE ELEVATION - EAST
1/4" = 1'-0"



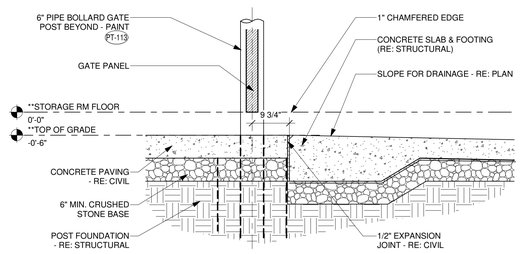
C1 REFUSE ENCLOSURE BASE DETAIL
1 1/2" = 1'-0"



A3 REF_SCTN_STORAGE
1/2" = 1'-0"



A2 REFUSE ENCOSURE DROP ROD 3-D DECK PANEL DETAIL
1/2" = 1'-0"



B1 REFUSE PAD AT CONCRETE PAVING DETAIL
3/4" = 1'-0"

REFUSE ENCLOSURE NOTES

1. ** IN THE ARCHITECTURAL DRAWINGS, REFUSE ENCLOSURE AND MAIN BUILDING ARE BOTH NOTED WITH FINISH SLAB AT 0'-0". ACTUAL FINISH SLAB HEIGHTS WILL VARY BETWEEN MAIN BUILDING AND REFUSE ENCLOSURE. REFER TO CIVIL FOR ALL FINISH SLAB HEIGHTS.

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Atlanta, Georgia
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KEVIN T. EVERNHAM 3199 SCOTTSDALE, AZ
STATE OF MONTANA
REGISTERED ARCHITECT
11/12/2025

CHICK-FIL-A
CUSTER & WASHINGTON

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FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
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NO.	DATE	DESCRIPTION
1	2024-07-11	PLAN CHECK - REV 1
4	2025-10-20	PLAN CHECK - REV 4

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SHEET
REFUSE ENCLOSURE

SHEET NUMBER
A-103

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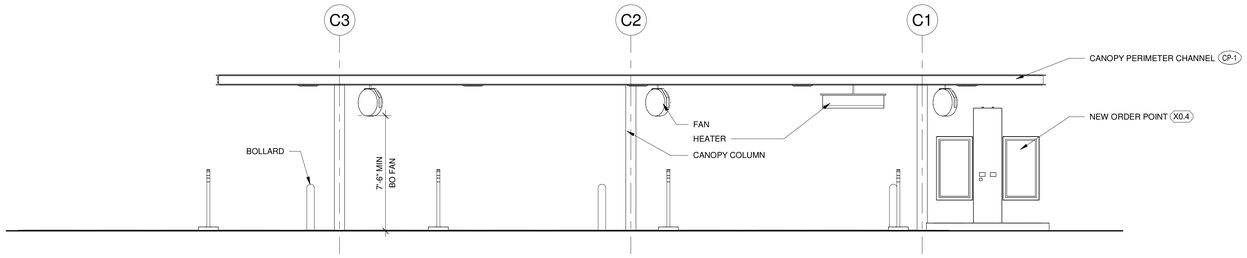
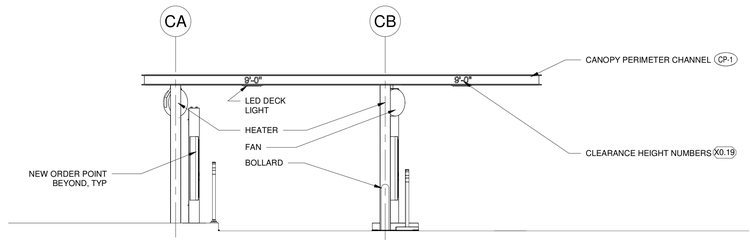
10-LS-05484-A-103-REFUSE ENCLOSURE

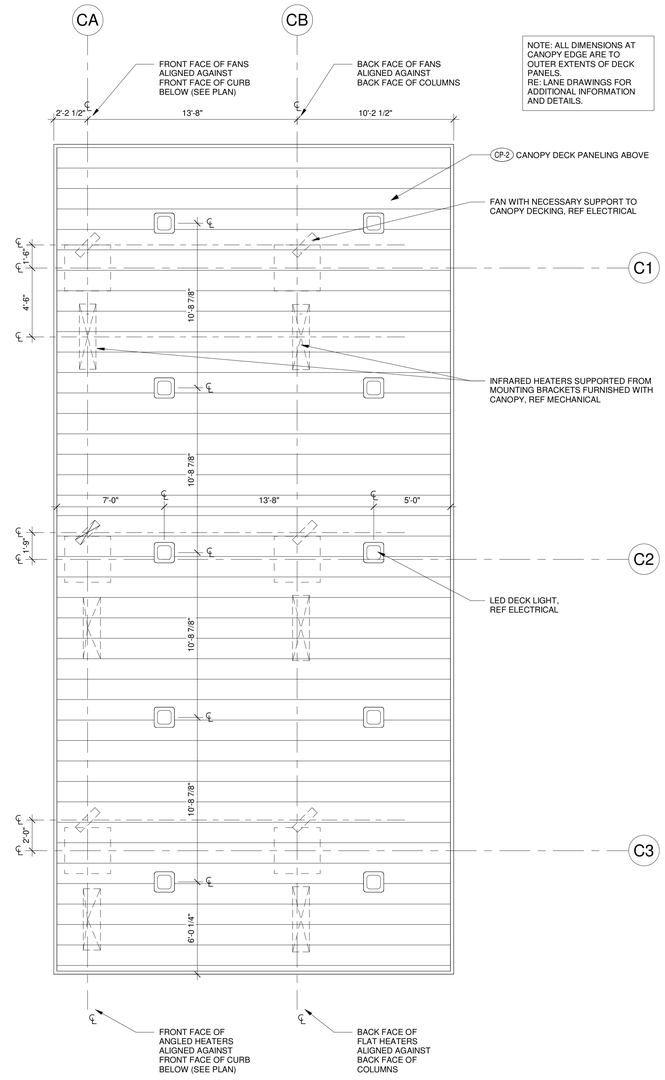
ORDER POINT EQUIPMENT SCHEDULE									
TAG	EQUIPMENT	APPLICABLE TIER 1	2	3	SUPPLIER	CONTACT	MANUFACTURER	MODEL NUMBER	COMMENTS
X0.3	BOLLARD SLEEVE	-	X	X	GC	-	INTERSTATE PRODUCTS OR EQUAL	1736YRS - EAGLE 6"	-
X0.4	OP DIGITAL MENU BOARD	-	X	X	PATTISON	Helene Hammond (613-247-5379) hhammond@pattisonsign.com	PATTISON	-	
X0.19	CLEARANCE TEXT	-	X	X	LANE OR FASHION	Larry Tolbert (705-545-7615) ltolbert@lanesupplyinc.com OR Jason Holmes (785-242-8111) jholmes@fashioninc.com	LANE OR FASHION	-	



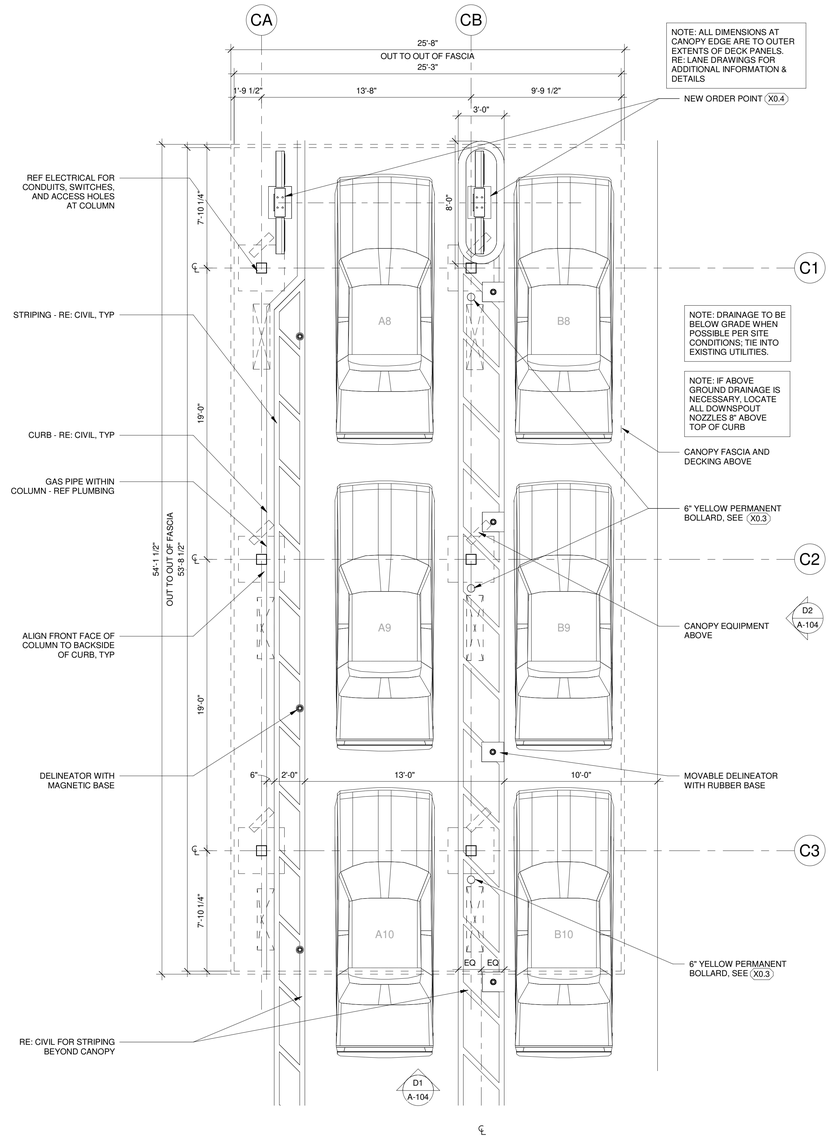
D2 SIDE ELEVATION
1/4" = 1'-0"



D1 ENTRY ELEVATION
1/4" = 1'-0"



A3 ORDER POINT CANOPY REFLECTED CEILING PLAN
1/4" = 1'-0"



A2 ORDER POINT CANOPY PLAN
1/4" = 1'-0"

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SHEET
ORDER POINT CANOPY

SHEET NUMBER
A-104

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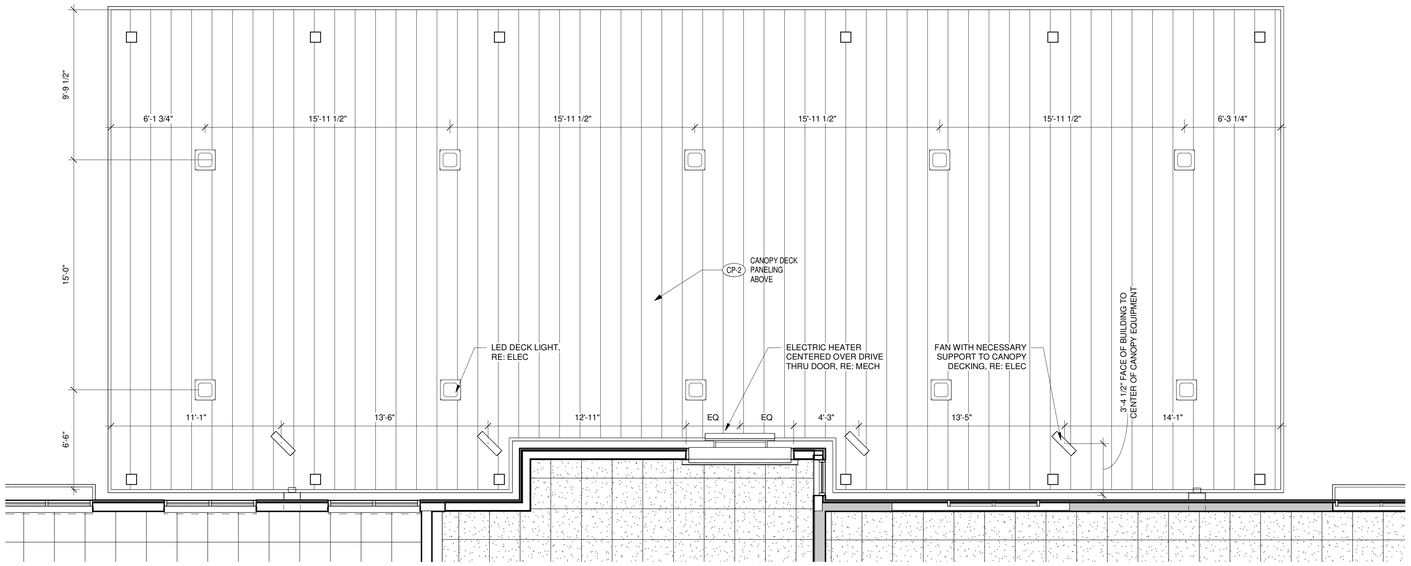
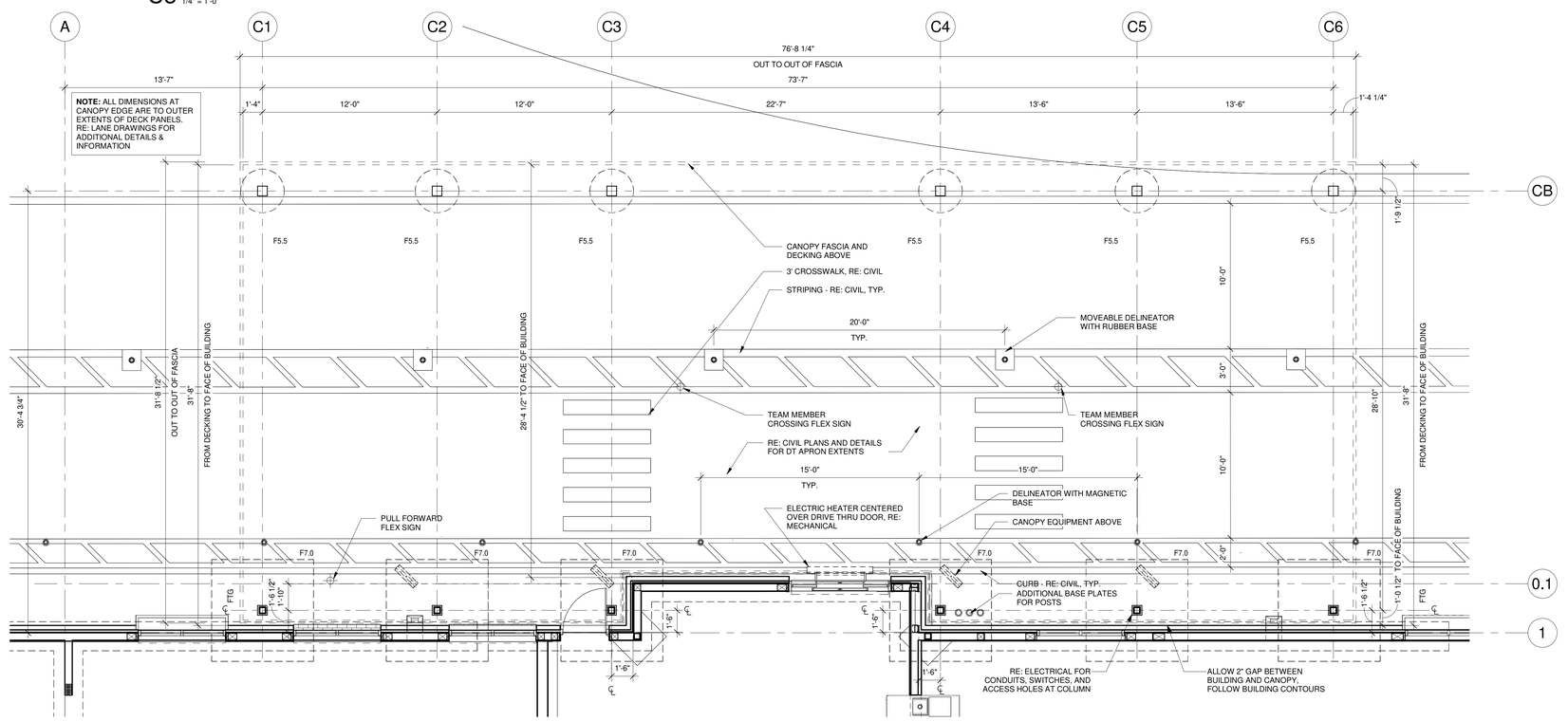
10-LS-05484-A-104-ORDER POINT CANOPY

11/12/2025 2:19:02 PM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_ARC.rvt
10-LS-05484-A-105-OUTSIDE MEAL DELIVERY CANOPY

NOTE: ALL DIMENSIONS AT CANOPY EDGE ARE TO OUTER EXTENTS OF DECK PANELS. RE: LANE DRAWINGS FOR ADDITIONAL DETAILS & INFORMATION



C3 OUTSIDE MEAL DELIVERY CANOPY REFLECTED CEILING PLAN
1/4" = 1'-0"



A3 OUTSIDE MEAL DELIVERY CANOPY PLAN
1/4" = 1'-0"

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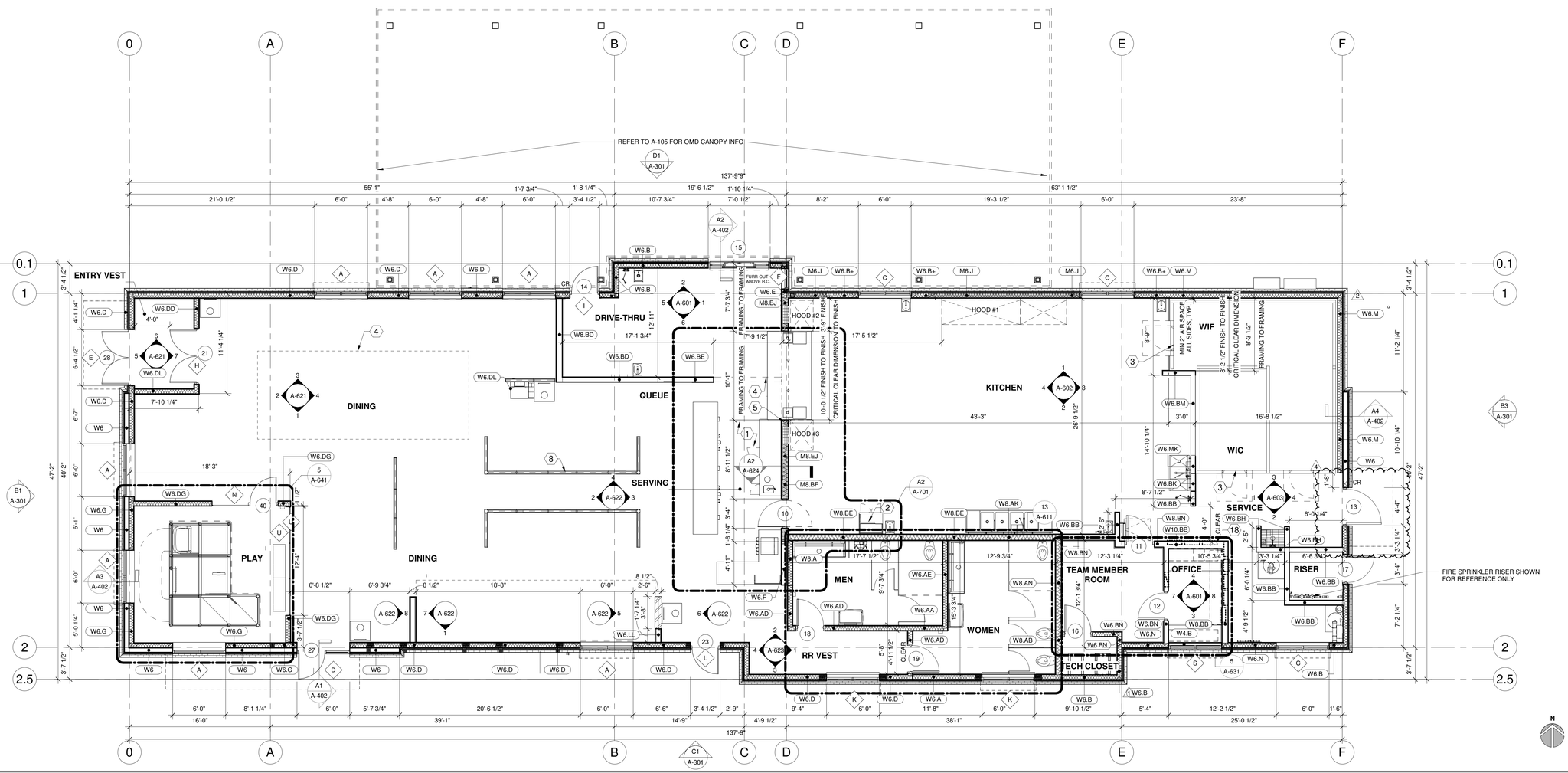
SHEET
OUTSIDE MEAL DELIVERY CANOPY

SHEET NUMBER
A-105



C4 FLOOR PLAN
3/16" = 1'-0"

REFER TO LEGEND BELOW FOR WALL CAVITY FRAMING AND INSULATION

W6.AB

REFER TO WALL TYPES ON THE RIGHT FOR SHEATHING AND MATERIALS ON EXPOSED SIDE(S) OF WALL (REFER TO ROOM LABELS FOR ORIENTATION)

PLUS SIGN INDICATES ADDITIONAL LAYER OF SHEATHING

WOOD STUD WALL	
W4	2x4 WOOD STUDS
W6	2x6 WOOD STUDS
W8	2x8 WOOD STUDS
METAL STUD WALL	
M4	3 5/8" METAL STUDS
M6	6" METAL STUDS
M8	8" METAL STUDS
BATT INSULATION	

NOTE 1: WALL BLOCKING SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY. BLOCKING SHALL INCLUDE, BUT IS NOT LIMITED TO: AREAS INDICATED ON INTERIOR ELEVATIONS FOR GRAB BARS, SHELVING BRACKETS, MONITORS, FIXTURES, ETC, AS WELL AS BLOCKING FOR WINDOWS, CANOPIES ROOF FRAMING, ROOF TOP UNITS, ETC.

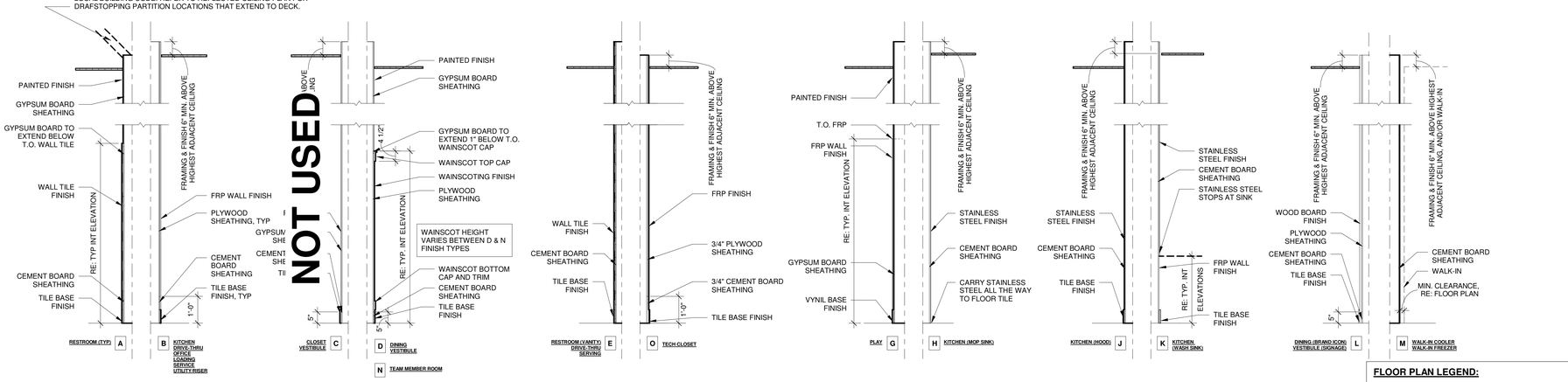
NOTE 2: REFER TO STRUCTURAL DRAWINGS AND WALL SECTIONS FOR EXTERIOR WALL CONSTRUCTION.

NOTE 3: REFER TO FINISH PLAN FOR WALL FINISH INFO AND SPECIFICATIONS FOR WALL SHEATHING INFO. DIMENSIONS SHOWN ARE FROM FLOOR FINISH, TYP.

NOTE 4: GENERAL CONTRACTOR TO PROVIDE AND/OR VERIFY FIRE BLOCKING AT 10' MAX VERTICAL SPACING AND AT CEILING HEIGHT IN ALL COMBUSTIBLE STUD WALLS, ACCORDING TO LOCAL CODE REQUIREMENTS.

FLOOR PLAN WALL & PARTITION LEGEND

BRACE INTERIOR PARTITONS AS REQUIRED FOR COMPLIANCE WITH LOCAL BUILDING CODE. REFER TO REFLECTED CEILING PLAN FOR DRAFSTOPPING PARTITION LOCATIONS THAT EXTEND TO DECK.



WALL TYPES LEGEND

FLOORPLAN KEYNOTES

1	GC SHALL PROVIDE 5-1/2" HIGH CONCRETE MILLWORK CURBS. RE: OWNER SHOP DRAWINGS FOR EXACT LOCATIONS & DIMENSIONS.
2	GC SHALL SECURE SAFE USING (4) HILTI HAS-E 1/2" x 4-1/2" ANCHOR BOLTS WITH HILTI HVU ADHESIVE CAPSULE. AT EACH HOLE FASTEN THRU PHENOLIC BASE OF CABINET AND INTO CONCRETE CURB BELOW. VERIFY LOCATION WITH SAFE MANUFACTURER.
3	FREEZER AND COOLER DOORS AND HARDWARE SUPPLIED BY FREEZER/ COOLER MANUFACTURER.
4	DASHED LINE INDICATES SOFFIT OR BULKHEAD ABOVE, RE: REFLECTED CEILING PLAN.
5	RECESSED PIN AND SLEEVE BOX, RE: KITCHEN ELEVATIONS FOR LOCATIONS AND HOOD DRAWINGS FOR SIZES
8	STEEL WALL BY OWNER (TYP.) RE: OWNER FOR EXACT LOCATION.
18	ELECTRICAL PANEL. RE: ELECTRICAL.

INSULATION SCHEDULE		
LOCATION	R-VALUE	THICKNESS
ROOF	R-30	5" RIGID
WALL (CONTINUOUS)	R-5	1" RIGID
WALL (CAVITY)	R-19	6" BATT
SLAB	R-20	2" RIGID

NOTES:
1. REFER TO FLOOR PLAN AND WALL SECTION SHEETS FOR INSULATION EXTENTS AND LOCATIONS.
2. REFER TO SPECIFICATIONS FOR INSULATION PRODUCT INFORMATION.

FLOOR PLAN GENERAL NOTES

A.1 ALL DIMENSIONS SHOWN ARE FRAMING DIMENSIONS (FACE OF STUD/JAMB) UNLESS OTHERWISE NOTED.
A.2 FASTENERS, ANCHORS, CLIPS, STRAPS, ETC WHICH ARE IN CONTACT WITH PRESERVATIVE AND/OR FIRE TREATED WOOD SHALL BE OF G-185 HOT DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, OR AN APPROVED EQUAL.
A.3 REFER TO CIVIL AND LANDSCAPE FOR LOCATIONS OF WALKS, BOLLARDS, LANDSCAPING AREAS, FLAG POLE, AND OTHER SITE ITEMS.
A.4 REFER TO INTERIOR ELEVATIONS FOR LOCATIONS AND TYPES OF CORNER GUARDS.
A.5 CONTRACTOR TO COORDINATE LOCATION OF POLE MOUNTED EXTERIOR CAMERA WITH STRONG SYSTEMS AND INSTALL UNDERGROUND CONDUIT AS REQUIRED. RE: ELECTRICAL.
A.6 REFER TO ACCESSIBILITY PLAN AND FURNITURE DRAWINGS FOR SEATING LAYOUT & SPECIFICATIONS. CONTACT: OWNER.
A.7 REFER TO ACCESSIBILITY PLAN AND OWNER DRAWINGS FOR CONDIMENT COUNTERS AND TRASH RECEPTACLES.
A.8 REFER TO IT WALLBOARD USER GUIDE FOR WALLBOARD INSTALLATION, IF APPLICABLE.
A.9 REFER TO MILLWORK PLAN FOR RAISED CONCRETE CURB LOCATIONS.
A.10 FREEZER AND COOLER DOORS AND HARDWARE SUPPLIED BY FREEZER/COOLER MANUFACTURER

FLOOR PLAN LEGEND:

CT CABINET
RE: ELECTRICAL

MDP RE: ELECTRICAL

STEEL WALL BY OWNER
RE: FURNITURE PLANS FOR DIMENSIONS AND DETAILS

ITEM BY OWNER

SOFFIT OR BULKHEAD ABOVE RE: REFLECTED CEILING PLAN

2-SIDED BRAND ICON
RE: OWNER DRAWINGS

RECESSED PIN AND SLEEVE BOX. RE:A2 / A-604 & MEP DRAWINGS.

ELECTRICAL PANEL RE: ELECTRICAL

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1	2024-07-11	PLAN CHECK - REV 1
2	2025-08-22	PLAN CHECK - REV 2
4	2025-10-20	PLAN CHECK - REV 4

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SHEET
FLOOR PLAN

SHEET NUMBER
A-201

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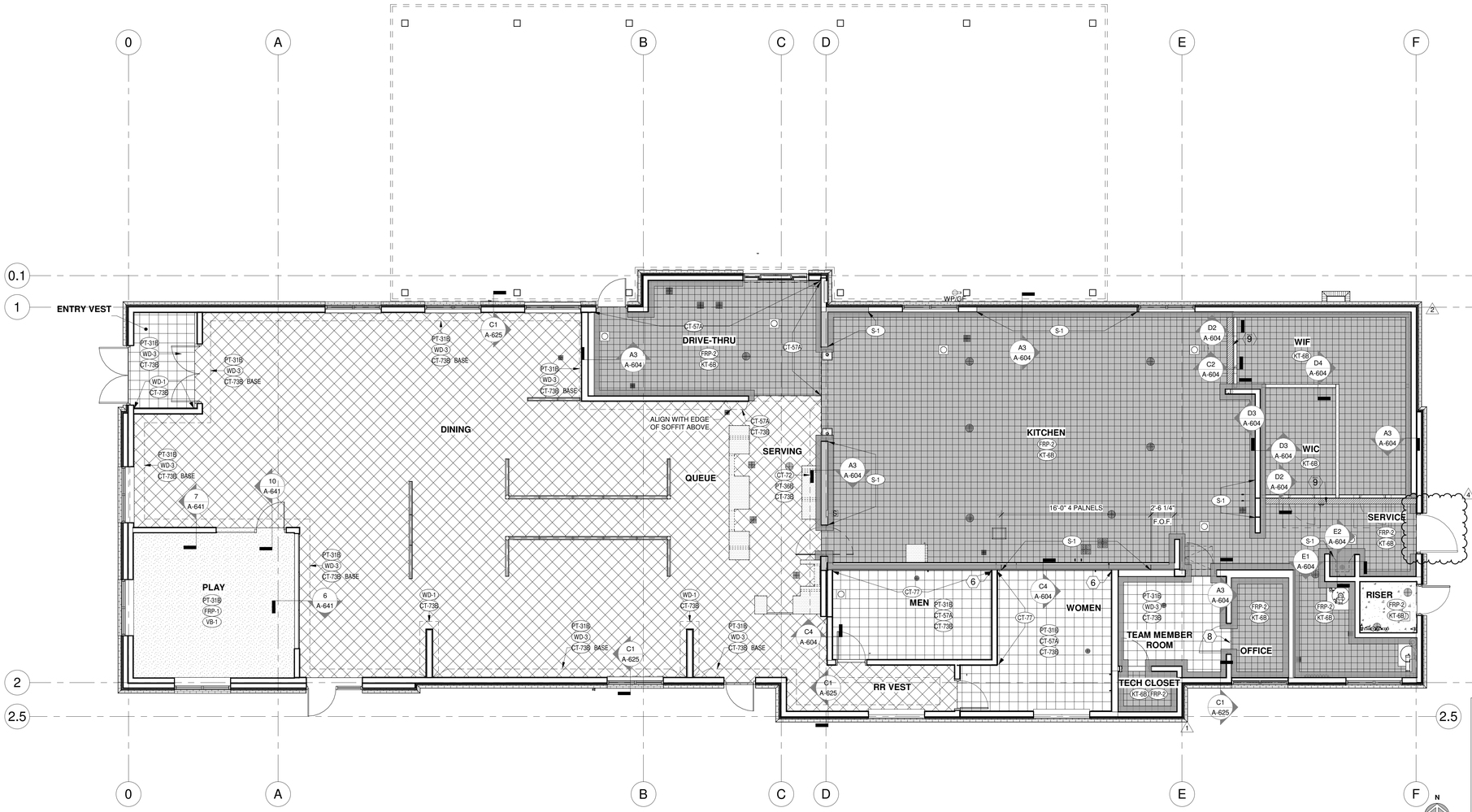
10-LS-05484-A-201-FLOOR PLAN



C4 FINISH PLAN
3/16" = 1'-0"

FINISH SCHEDULE - INTERIOR

MARK	DESCRIPTION	MANUFACTURER	MODEL NAME	MODEL NUMBER	COLOR	SIZE	NOTE
02_FLOOR FINISHES							
CT-73	PORCELAIN TILE	DALTILE	CUSTOM		CHIC - STONE GRAY	12" X 12"	JOINT WIDTH: 3/16"
FL-4	PLAYGROUND FLOORING	PROJECT INNOVATIONS INC	ULTIMATE PLAYPAD SAFETY SURFACING		STARRY NIGHT	2" THICK	
G-12	FLOOR TILE GROUT	MAPEI	ULTRA COLOR GROUT		47 / CHARCOAL		USED WITH PORCELAIN TILE
G-16	FLOOR TILE GROUT	MAPEI	KERAPOXY IEG CQ		47 / CHARCOAL		USED WITH QUARRY TILE, GC TO INSTALL WITH STANDARD THINSET MORTAR
KT-6	QUARRY TILE	DALTILE			ASHEN GRAY	8" X 8"	JOINT WIDTH: 3/8" W THINSET MORTAR
04_WALL BASE FINISHES							
CT-73B	PORCELAIN TILE COVE BASE	DALTILE	CUSTOM		CHIC - STONE GRAY	6-1/2"" X 12" COVE	JOINT WIDTH: 3/16"
KT-6B	QUARRY TILE COVE BASE	DALTILE			ASHEN GRAY	6 " x 8" COVE	JOINT WIDTH: 3/8" W THINSET MORTAR
VB-1	VINYL WALL BASE @ PLAYGROUND	JOHNSONITE	TRADITIONAL COVE BASE		CB-40, BLACK	6" H	
04_WALL FINISHES							
CG-1	OUTSIDE CORNER GUARD AT PLAYGROUND (FULL HEIGHT, TYPICAL)	KOROSEAL	EXTRUDED CORNER GUARDS	G-815	OYSTER	.078 THICK x 1 1/2" x 1 1/2" x 96" H	
CG-2	INSIDE CORNER GUARD AT PLAYGROUND	KOROSEAL	THERMOFORMED CORNER GUARDS WITH SQUARE EDGE PROFILE	F-410	OYSTER	.40" THICK X 1" X 1" X 96"H	
CG-3	CORNER GUARD (KITCHEN ONLY)	MANUFACTURER	STAINLESS STEEL CORNER GUARD AND/OR ENDCAP		STAINLESS STEEL		EXTEND FROM TOP OF THE FLOOR TO 8'-0" ABOVE THE ADJACENT BASE AT WALL CORNERS. AT CASED OPENINGS, CORNER GUARD TO STOP AT HEAD OF OPENING. REFER TO KITCHEN STANDARD ELEVATIONS.
CG-4	CORNER GUARD (KITCHEN ONLY)	MARLITE	MARLITE		WHITE		CORNER GUARD AT ALL OUTSIDE FRP CORNERS, U.N.O.
CG-5	CORNER GUARD (KITCHEN & RESTROOM ONLY)	SCHLUTER	JOLLY "A60AT"		SATIN NICKEL ANODIZED ALUMINUM	1/4"	
CT-57A	SUBWAY WALL TILE	DALTILE			BISCUIT	4-1/4" X 8-1/2"	GROUT: G2, JOINT WIDTH: 1/8"
CT-57D	SUBWAY WALL TILE - BULLNOSE OUTERCORNER	DALTILE			BISCUIT	4-1/4" X 4-1/4"	GROUT: G2, JOINT WIDTH: 1/8"
CT-57E	SUBWAY WALL TILE - BULLNOSE (4" SIDE)	DALTILE			BISCUIT	4-1/4" X 8-1/2"	GROUT: G2, JOINT WIDTH: 1/8"
CT-57F	SUBWAY WALL TILE - BULLNOSE (8" SIDE)	DALTILE			BISCUIT	4-1/4" X 8-1/2"	GROUT: G2, JOINT WIDTH: 1/8"
CT-72	STAINLESS STEEL WALL TILE	DALTILE		MOSAIC	STAINLESS STEEL BRUSHED	1" X 2" BRICK, 12 X 12 SHEET	GROUT: G2
CT-77	CREAM GLAZED CERAMIC	DALTILE	CREAM RECTANGLE RIPPLE	RV06	CREAM	2X8	GROUT: G-11, REFER TO ELEVATIONS & DETAILS
FRP-1	FRP WALL PANELS @ PLAYGROUND	KOROSEAL	FRP RIGID VINYL SHEET	W202	OYSTER	.040" THICK X 4 X 8 PANELS	8'-0" A.F.F MAX HEIGHT
FRP-2	FRP WALL PANELS @ KITCHEN	MARLITE	STANDARD FRP	P-199	BRIGHT WHITE	.090" THICK X 4 X 10 PANELS	PROVIDE MARLITE CORNER GUARDS AT ALL OUTSIDE CORNERS IN KITCHEN AREAS, U.N.O.
G-11	WALL TILE GROUT	MAPEI	KERACOLOR U WITH GROUT MAXIMIZER LATEX ADDITIVE	UNSANDED	09/GRAY		
PT-9B	INTERIOR WALL PAINT	SHERWIN WILLIAMS	PRO MAR 200 ZERO VOC PAINT	SW-7031	MEGA GRIEGE		FINISH: SEMI-GLOSS ON DOOR FRAMES, SATIN ON WALLS
PT-31B	PRIMARY INTERIOR WALL PAINT	SHERWIN WILLIAMS	PRO MAR 200 ZERO VOC PAINT	SW-7011	NATURAL CHOICE		FINISH: EGGSHELL
PT-35	INTERIOR DOOR FRAME PAINT	SHERWIN WILLIAMS	PRO MAR 200 ZERO VOC PAINT	SW-7020	BLACK FOX		FINISH: SEMI-GLOSS
PT-36B	ACCENT INTERIOR WALL PAINT	SHERWIN WILLIAMS	PRO MAR 200 ZERO VOC PAINT	SW-7600	BOLERO		FINISH: EGGSHELL
WD-1	PREFINISHED WHITE OAK WOOD BOARDS	SKYLAR MORGAN	5" W NATURAL WHITE OAK BOARDS, CUSTOM CHARACTER GRADE				FINISH: OILED OR WATERLOX WITH BLACK EPOXY FILLED KNOTHOLES
WD-3	WAINSCOTING	RE: NATIONAL ACCOUNT SCHED	1/4" PLYWOOD (RED OAK, PLAIN CUT CORE W/ METAL TRIM)		RED OAK STAINED MINWAX DRIFTWOOD		RE: DETAILS AND SHOP DRAWINGS FROM MANUFACTURER
05_MISCELLANEOUS FINISHES							
MT-1	POWDERCOAT METAL FINISH	ALPHA COATING TECHNOLOGIES INC	POWDERCOAT	T1-7060	TRISMOKE		
PL-32	PLASTIC LAMINATE	WILSONART	CONTRACT COLLECTION	4878-38	PEWTER MESH		
PL-40	PLASTIC LAMINATE	WILSONART	CONTRACT COLLECTION	D-96	SHADOW		FINISH: MATTE #60
PNL-1	HARDIE PANEL	JAMES HARDIE BUILDING PRODUCTS, INC.	NON-COMBUSTIBLE FIBER-CEMENT PANELS (SMOOTH NOT WOOD GRAIN)		PT-31B (U.N.O.)		
RS-1	ROLLER SHADE	PHIFER	SHEARWEAVE 4000 U61	5% OPENENESS - NOTCHLESS	ECO/GREYSTONE		4" FASCIA, DARK BRONZE TO MATCH STOREFRONT, ROLLEASE SKYLINE CLUTCH, (HEAT SEALED INTERNAL POCK HEM BAR), 110LB STAIN/STEEL ROLLEASE CHAIN, RE: INTERIOR ELEVATIONS
S-1	STAINLESS STEEL WALL PANELS		18 GAUGE STAINLESS STEEL PANELS, BRUSHED #4 MATTE FINISH	GRADE 430			LOCATED BEHIND KITCHEN EXHAUST HOODS, PREP SINK, WASH SINK, AND MOP SINK. RE: ELEVATIONS
SS-11	SOLID SURFACE	AVONITE	FOUNDATIONS MINERALS COLLECTION	P1-9125	BLACK CORAL		WINDOWS SILLS, REFER TO DRAWINGS
SS-13	SOLID SURFACE	AVONITE	FOUNDATIONS MINERALS COLLECTION	F1-9065	ARTICA		BACK LINE COUNTERTOP, REFER TO DRAWINGS
SS-18	SOLID SURFACE	AVONITE	FOUNDATIONS MINERALS COLLECTION	F1-8901	ELEVATION		SERVING COUNTERTOP, TROUGH SINK, REFER TO DRAWINGS
SS-19	SOLID SURFACE	DEKTON	INDUSTRIAL COLLECTION		SOKE	2CM THICK	WALK-UP COUNTERTOP, REFER TO DRAWINGS. FINISH: MATTE. GC PROVIDED/INSTALLED
TR-1	TRIM	BLANKE	EDGE PROTECTOR TRIM	300-280-0625	STAINLESS STEEL		

FINISH PLAN GENERAL NOTES

A.1 RE: PLUMBING FOR FLOOR DRAIN/SINK LOCATIONS. RE: STRUCTURAL FOR DRAIN SLOPE INFORMATION.
A.2 PULL FLOOR AND WALL TILE FROM MULTIPLE BOXES TO ENSURE TILE COLOR VARIATION IN PUBLIC AREAS.
A.3 PROVIDE FRACTURE MEMBRANE/ SLIP SHEET AT ALL CONTROL AND EXPANSION JOINTS TO ALLOW TILE TO MOVEMENT.
A.4 ALL DINING AREA DRYWALL TO RECEIVE LEVEL 4 FINISH.
A.5 WRAP ALL EXPOSED PORTIONS OF CONCRETE CURBS WITH TILE BASE TO MATCH TILE BASE SCHEDULED IN RESPECTIVE ROOM/ AREA.
A.6 PROVIDE CG-3 AROUND PERIMETER OF ALL KITCHEN WINDOWS.
A.7 ALL EXTERIOR DOORS TO RECEIVE THRESHOLD SET IN BED OF MASTIC.
A.8 TILE INSTALLERS TO USE MANUFACTURER-PROVIDED OUT-CORNER BASE TILE AT ALL OUTSIDE CORNERS

FINISH PLAN KEYNOTES

6	START WITH FULL LENGTH TILE AT CORNER.
8	RE: OFFICE DOOR THRESHOLD DETAIL B2 / A-604
9	START WITH FULL LENGTH TILE ALIGNED AGAINST WALK-IN FREEZER THRESHOLD

FINISH PLAN LEGEND:

PORCELAIN TILE (CT-73)
KITCHEN TILE (KT-6)
FLOORING BY PLAYGROUND INSTALLER (FL-4)
EXPOSED CONCRETE
CONCRETE MILLWORK CURB
WATERPROOFING MEMBRANE TO EXTEND 12" UP WALL AND 12" FROM WALL ALONG FLOOR.
KERDI FLASHING BY SCHLUTER BENEATH FINISH FLOOR. RE: KEYED DETAIL.
FLOOR DRAINS / FLOOR SINKS RE: PLUMBING
CLEAN OUT RE: PLUMBING
TRENCH DRAINS RE: PLUMBING
STEEL WALLS BY OWNER
CORE DRILL LOCATION RE: FURNITURE PLANS

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11/12/2025

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FSR#05484

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SHEET
FLOOR FINISH PLAN

SHEET NUMBER
A-211

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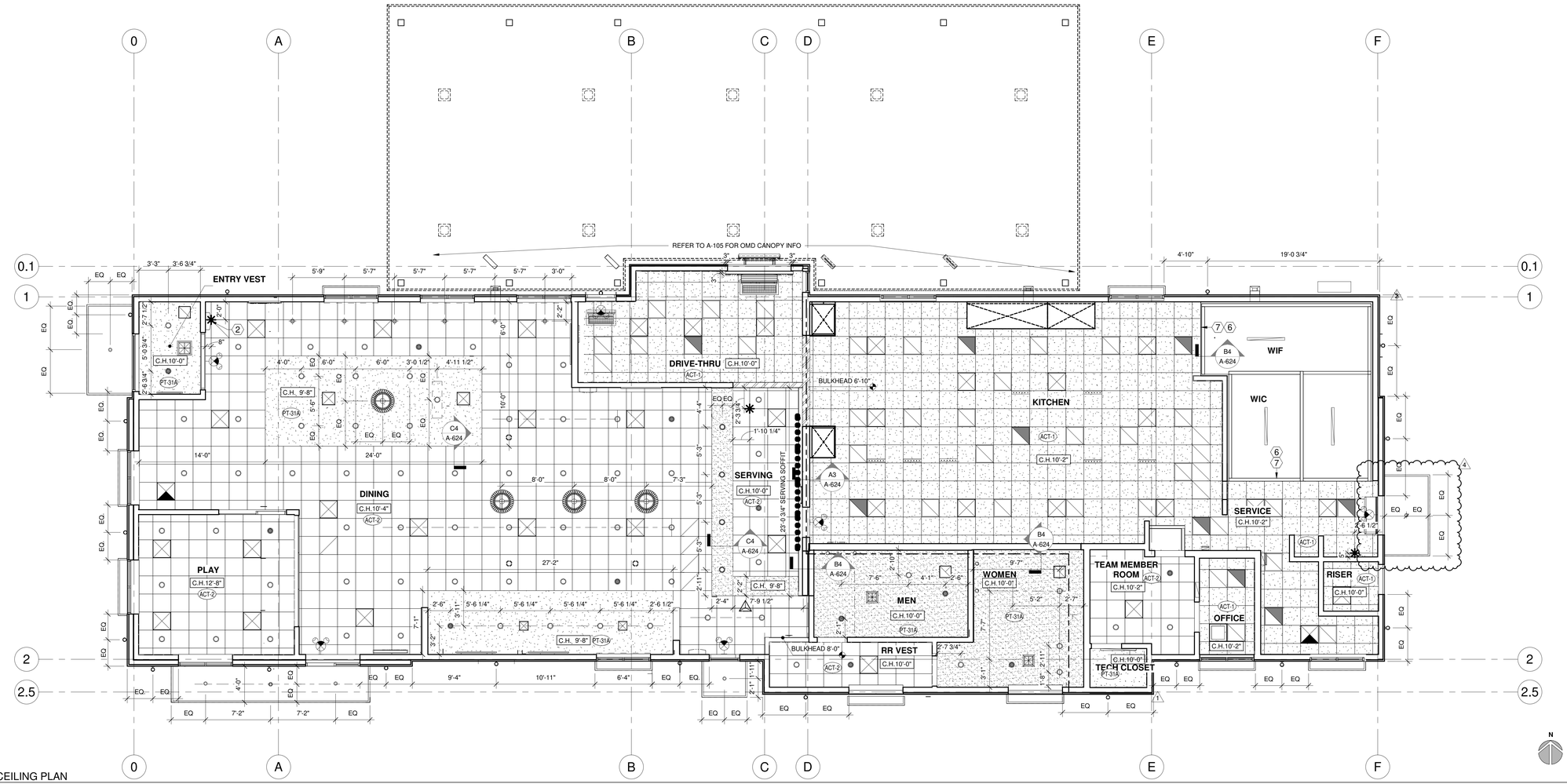
10-LS-05484-A-211-FLOOR FINISH PLAN



C4 REFLECTED CEILING PLAN
3/16" = 1'-0"

REFLECTED CEILING PLAN LEGEND:

- LAY-IN CEILING TILE (ACT-1)
- LAY-IN CEILING TILE (ACT-2)
- CEILING GRID START POINT
- GYPSUM BOARD (PT-31A) RE: FINISH PLAN FOR FINISHES
- PREFINISHED METAL CANOPY BY CANOPY FABRICATOR
- 2' X 2' RECESSED LED LIGHT FIXTURE (B.O.H.) RE: ELECTRICAL
- 2' X 2' RECESSED EMERGENCY LED LIGHT FIXTURE (B.O.H.) RE: ELECTRICAL
- RECESSED CAN LIGHT FIXTURE RE: ELECTRICAL
- RECESSED EMERGENCY CAN LIGHT FIXTURE - RE: ELECTRICAL
- DINING TABLE PENDANT CENTERED OVER TABLE RE: ELECTRICAL
- LED STRIP LIGHT RE: ELECTRICAL
- PEACH BASKET PENDANT RE: ELECTRICAL
- INTERIOR SCONCE LIGHT FIXTURE RE: ELECTRICAL
- EXTERIOR SCONCE LIGHT FIXTURE RE: ELECTRICAL
- EXIT LIGHT - WALL MOUNTED RE: ELECTRICAL
- COCA-COLA PENDANT FIXTURE
- SUPPLY AIR VENT RE: MECHANICAL
- RETURN AIR VENT RE: MECHANICAL
- WALL DIFFUSER RE: MECHANICAL
- AIR CURTAIN WALL-MOUNTED RE: MECHANICAL
- AIR CURTAIN RECESSED RE: MECHANICAL
- EXHAUST HOOD RE: MECHANICAL
- FLY LIGHT (BOH) RE: KITCHEN
- FLY LIGHT (FOH) RE: KITCHEN
- DROP CORDS RE: ELECTRICAL
- 3-SIDED PICK-UP SIGN MOUNTED TO CEILING GRID, PROVIDED BY OWNER
- MENU BOARDS
- DOWNSPOUT
- ROOF HATCH
- SPEAKER - VENDOR TO VERIFY LOCATIONS W/ GC
- DRAFTSTOPPING PARTITION REQUIRED FOR NON-SPRINKLERED BUILDINGS

REFLECTED CEILING PLAN GENERAL NOTES

A.1 REFER TO FINISH SCHEDULE FOR FINISH INFORMATION NOT SHOWN ON THIS SHEET.
A.2 REFER TO MECHANICAL AND ELECTRICAL FOR INFORMATION ON LIGHT FIXTURES AND MECHANICAL FIXTURES.
A.3 ADJUST EXACT LOCATION OF LIGHT FIXTURES TO CLEAR CEILING GRID AND HVAC GRILLES.
A.4 IN GYPSUM BOARD CEILINGS, ALIGN FIXTURES AND GRILLES BETWEEN CEILING JOISTS.
A.5 DIMENSIONS SHOWN ARE TO FACE OF FINISH.
A.6 CEILING SPEAKERS ARE NOT SHOWN HERE. SPEAKERS SHALL BE PROVIDED AND INSTALLED BY OWNER'S SUPPLIER. WHERE SPEAKERS OCCUR IN LAY-IN CEILING, SPEAKERS SHALL BE CENTERED WITHIN CEILING TILES. GC SHALL COORDINATE WITH OWNER'S SPEAKER SUPPLIER AND CUT HOLES IN CEILING AS REQUIRED FOR SPEAKER PLACEMENT.
A.7 HEIGHTS SHOWN AT CEILINGS ARE TO BOTTOM OF FINISH.
A.8 HEIGHTS SHOWN AT LIGHT FIXTURES ARE TO BOTTOM OF FIXTURE.
A.9 GC SHALL COORDINATE WITH CANOPY SHOP DRAWINGS FOR FINAL DIMENSIONS AT DRIVE-THRU CANOPY - INCLUDING BUT NOT LIMITED TO: OVERALL CANOPY DIMENSIONS AND LOCATIONS OF HEATERS, FANS AND LIGHTS.
A.10 SUSPENDED CEILING GRIDS TO BE CENTERED WITHIN ROOMS AS SHOW IN RCP,TYP, UNLESS SPECIFIED W/A GRID START POINT.
A.11 HEAVY DASHED LINE INDICATES SMOKE PARTITION REQUIRED FOR NON-SPRINKLERED BUILDINGS. EXTEND WALL FRAMING FROM FINISH CEILING TO ROOF DECK TO FORM CONTINUOUS SMOKE PARTITION SEPERATING CEILING PLENUM INTO TWO DISTINCT VOLUMES. AT "BACK OF HOUSE" OR KITCHEN SIDE OF WALL. EXTEND WALL SHEATHING FROM FLOOR TO ROOF DECK. ON PUBLIC SIDE, EXTEND WALL SHEATHING FROM FLOOR TO 6" ABOVE FINISH CEILING. RE: DRAFTSTOPPING DETAIL B4 / A-624.
A.12 CEILING HEIGHTS AND SPOT ELEVATIONS SHOWN ON THIS SHEET ARE MEASURED FROM FINISH FLOOR.

RCP KEYNOTES

2	CEILING GRID START POINT.
6	FRP CORNER GUARDS & TRIM AT COOLER AND FREEZER SOFFITS.
7	METAL CLOSURE PANELS ABOVE FREEZER AND COOLER. INSTALL AFTER CEILING GRID IS IN PLACE. RE: KITCHEN EQUIPMENT DRAWINGS.

FINISH SCHEDULE - RCP

MARK	DESCRIPTION	MANUFACTURER	MODEL NAME	MODEL NUMBER	COLOR	SIZE	NOTE
01_CEILING FINISHES							
ACT-1	ACOUSTICAL CEILING PANEL AND GRID	CERTAINTEED CEILINGS	PERFORMA VINYLROCK	1142-CRF-1	WHITE	24" x 24" x 1/2"	GRID:STANDARD 15/16" SQUARE LAY-IN GRID, WHITE
ACT-2	ACOUSTICAL CEILING PANEL AND GRID	CERTAINTEED CEILINGS	PERFORMA SYMPHONY M	1222BF-IOF-1	WHITE	24" X 24" X 3/4"	GRID: ELITE NARROW REVEAL (CORNER BEVEL) 9/16" GRID, WHITE
ACT-11	ACOUSTICAL CEILING PANEL AND GRID	USG	MARS ACOUSTICAL PANELS	86785	WHITE	24" x 24" x 1/2"	GRID: USG DX/DXL 15/16" SHADOWLINE TAPERED LAY-IN GRID, WHITE
ACT-12	ACOUSTICAL CEILING PANEL AND GRID	USG	SHEETROCK BRAND LAY-IN GYPSUM CEILING PANELS	3260	WHITE	24" x 24" x 1/2"	GRID: USG DX/DXL 15/16" SQUARE LAY-IN GRID, WHITE
PT-9A	INTERIOR CEILING PAINT	SHERWIN WILLIAMS	PRO MAR 200 ZERO VOC PAINT	SW-7031	MEGA GRIEGE		FINISH: FLAT
PT-31A	PRIMARY INTERIOR CEILING PAINT	SHERWIN WILLIAMS	PRO MAR 200 ZERO VOC PAINT	SW-7011	NATURAL CHOICE		FINISH: FLAT (SEMI-GLOSS ON HARDIE PANEL)
PT-36A	INTERIOR CEILING PAINT	SHERWIN WILLIAMS	PRO MAR 200 ZERO VOC PAINT	SW-7600	BOLERO		FINISH: FLAT

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10-LS-05484-A-221 REFLECTED CEILING PLAN

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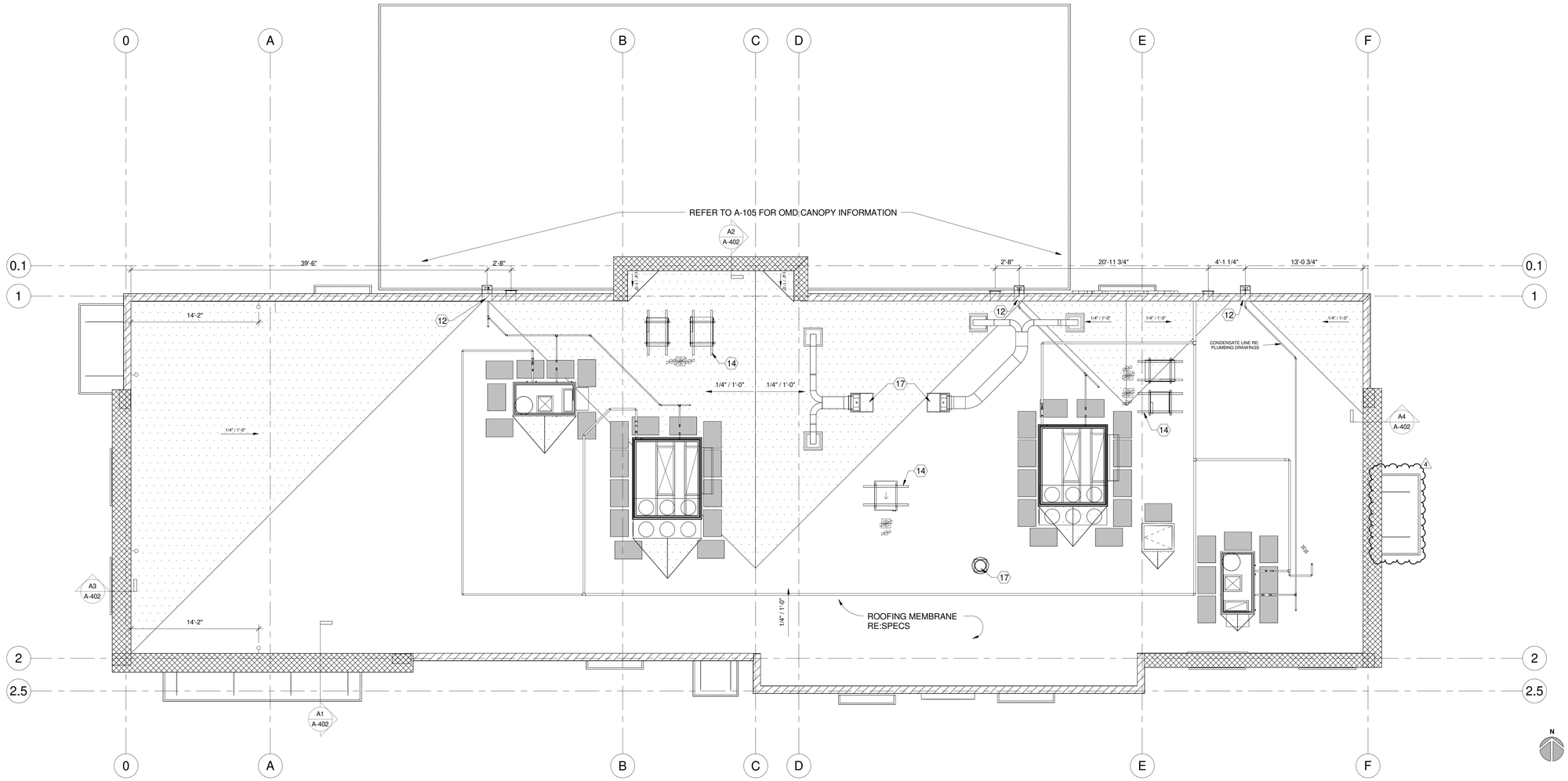
SHEET **REFLECTED CEILING PLAN**

SHEET NUMBER **A-221**



C4 ROOF PLAN
3/16" = 1'-0"

ROOF PLAN GENERAL NOTES

A.1 R-VALUE OF RIGID INSULATION MAY VARY DEPENDING ON MANUFACTURER. GC SHALL BE RESPONSIBLE FOR VERIFYING APPROPRIATE THICKNESS TO MEET R-VALUE REQUIREMENTS.
A.2 VERTICAL ROOF MEMBRANE SURFACES ON VERTICAL BACK WALLS OF PARAPET AND KICKERS (WHERE USED) SHALL BE TAN. ALL OTHER ROOF MEMBRANES SURFACES SHALL BE WHITE.
A.3 PROVIDE PIPE SUPPORTS (NOT SHOWN HERE) FOR GAS AND CONDENSATE LINES AT 4'-0" O.C. MAX.
A.4 REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING ROOF PLANS FOR INFORMATION NOT SHOW HERE.
A.5 PAINT ALL EXPOSED GAS PIPING ON ROOF DARK BRONZE (2 COATS).
A.6 ALL CONDENSATE LINES SHALL BE INSTALLED TO PROVIDE POSITIVE DRAINAGE. GENERAL CONTRACTOR SHALL PROVIDE BLOCKING AS REQUIRED TO ELIMINATE SAGGING.
A.7 PROVIDE SIDEWALL MOUNTED LIGHT FIXTURE PER D3 / A-503. COORDINATE LOCATION WITH C.M.
A.8 ROOF PENETRATIONS TO BE INSTALLED PER DETAILS E1 / A-503 AND A1 / A-503 .

ROOF PLAN KEYNOTES

12	DISCHARGE CONDENSATE INTO DOWNSPOUT - RE: PLUMBING ROOF DRAWING.
14	ALUMINUM EQUIPMENT STAND SUPPORTS MANUFACTURED BY AVCOA CORPORATION OF FORT LAUDERDALE, FLORIDA OR APPROVED EQUAL. AT WALK-IN CONDENSERS - (2 STANDS) EACH CONSISTING OF (2) 5'-0" LONG RAILS SPACED 31" APART. AT ICE MAKER CONDENSERS - (3 STANDS) EACH CONSISTING OF (2) 5'-0" LONG RAILS SPACED 24" APART WITH (2) SUPPORTS UNDERNEATH. STANDS SHALL PROVIDE 18" MINIMUM CLEARANCE (48" O.C. AT ICE MAKER CONDENSERS) AND SHALL BE SIZED INSTALLED ACCORDING TO THE MANUFACTURER'S LOAD CHARTS AND PRINTED INSTALLATION DETAILS. CONTACT: 800-266-7212.
17	EXHAUST FAN. RE: MECHANICAL.

ROOF PLAN LEGEND

- WHITE WALK PAD MEMBRANES WITH YELLOW SAFETY STRIPES, TYP.
- 2'-6" X 3'-0" ROOF HATCH. BILCO OR EQUAL.
- REMOTE CONDENSING UNIT. RE: KITCHEN EQUIPMENT SCHEDULE
- AIR FLOW DIRECTION
- RTU. RE: MECHANICAL (C1 / A-503)
- 3/8" X 4 1/2" EYE SCREW ANCHORS (INSTALL 2x SOLID BLOCKING BETWEEN STUDS TO ATTACH ANCHOR). LOCATIONS APPROXIMATE. VERIFY WITH OWNER AND CONSTRUCTION MANAGER. RE: DETAIL C2 / A-503 .
- PIPING PENETRATION. RE: E1 / A-503 AND PLUMBING ROOF PLAN FOR PIPE DESCRIPTIONS
- 4"X16" SCUPPER, LEADER HEAD & DOWNSPOUT. RE: D2 / A-503 & A3 / A-503 . RE: EXTERIOR ELEVATIONS FOR LOCATION.
- 4"X16" OVERFLOW SCUPPER. RE: D2 / A-503 & A3 / A-503. INSTALL WITH BOTTOM EDGE 2" ABOVE ROOF SURFACE. GC TO ENSURE SCUPPER IS INSTALLED DURING MAIN ROOFING OPERATION.
- EXTENDED PARAPET
- REGULAR PARAPET
- CRICKET, CONSTRUCTED OF ROOF MEMBRANE ON RIGID INSULATION - SLOPE AT 1/4" PER FOOT, MIN.
- FLAG POLE LIGHTING
- RESTROOM EXHAUST, RE: MECH

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SHEET
ROOF PLAN

SHEET NUMBER
A-230

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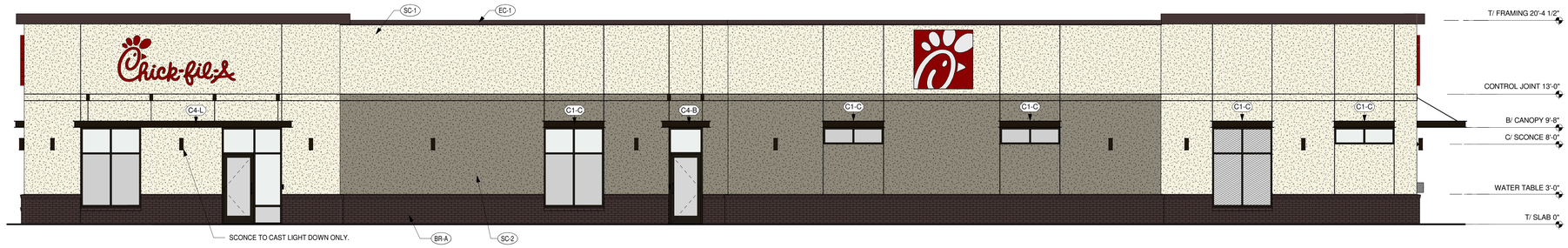
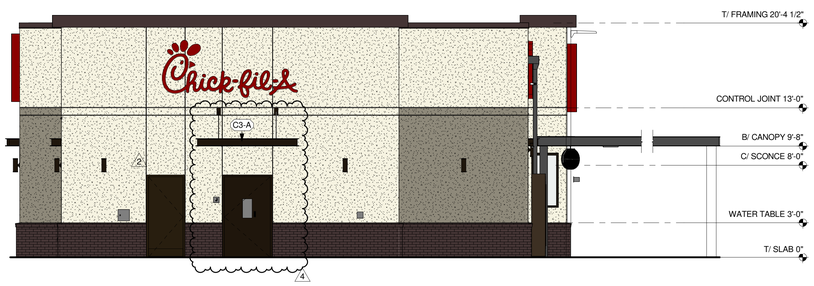
10-LS-05484-A-230 ROOF PLAN

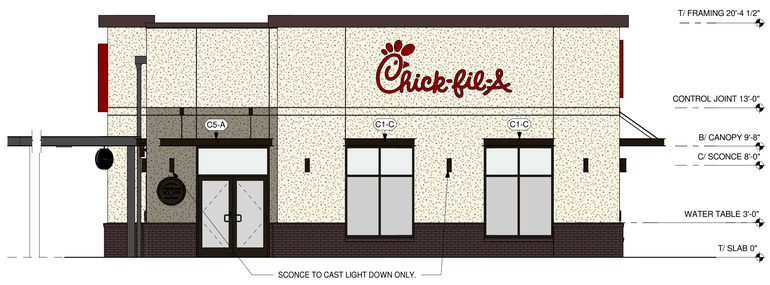
D1 NORTH EXTERIOR ELEVATION
3/16" = 1'-0"



C1 SOUTH EXTERIOR ELEVATION
3/16" = 1'-0"



B3 EAST EXTERIOR ELEVATION
3/16" = 1'-0"



B1 WEST EXTERIOR ELEVATION
3/16" = 1'-0"

GENERAL NOTES
1. ALL SIGNAGE PROVIDED BY OTHERS
2. REF FLOOR PLAN AND WINDOW LEGEND FOR STOREFRONT INFORMATION

CANOPY NOTES:

BUILDING MOUNTED CANOPIES
- 8" THICK CANOPY
- KYNAR FINISH OF STRUCTURE, FASCIA, & DECKING TO MATCH CP-1

COLUMN MOUNTED CANOPIES
- 10" THICK CANOPY
- FINISH OF STRUCTURE TO BE CP-1
- FINISH OF DECKING TO BE CP-2

ATTACHED CANOPY SCHEDULE

Mark	Description	Count	Overall Width	Overall Depth	Tie Back Mounting (Offset From Top)	Integral Lighting
C1-C	Exterior Canopy	9	6'-4"	1'-0"	0"	No
C3-A	Exterior Canopy	1	9'-0"	5'-0"	2'-6"	No
C4-B	Exterior Canopy	1	5'-0"	4'-0"	2'-4"	No
C4-L	Exterior Canopy	1	22'-0"	4'-0"	2'-4"	Yes
C5-A	Exterior Canopy	1	10'-0"	5'-0"	2'-4"	No
Grand total		13				

LEGEND

- BR-A — THIN BRICK VENEER COLOR: IMPERIAL GREY SIZE: MODULAR
- SC-1 — STUCCO SYSTEM COLOR: WEST HIGHLAND WHITE #SW7566 FINISH:SAND MEDIUM
- SC-2 — STUCCO SYSTEM COLOR: HARDWARE #SW6172 FINISH:SAND MEDIUM
- EC-1 — PREFINISHED METAL COPING COLOR: MIDNIGHT BRONZE
- EXPANSION JOINT, SEALANT COLOR TO MATCH MORTAR COLOR, RE: SPECIFICATIONS
- CARD READER BY SECURITY VENDOR - RE: ELEC
- SCUPPER - PT-113 SEE D2 / A-503
- DOWNSPOUT - PT-113 SEE A3 / A-503
- MDP - PT-113 RE: ELECTRICAL
- OIL EXTRACTION PORT ACCESS BOX
- CO2 FILL BOX - RE: KITCHEN
- LIGHT FIXTURE - RE: ELECTRICAL
- CT CABINET - PT-113 RE: ELECTRICAL

APPROVED BRICK ALTERNATES

(SEE NATIONAL ACCOUNTS LIST FOR CONTACT INFORMATION)

FINISH	MANUFACTURER	MODEL	MORTAR	PLANT LOCATION	PREFERRED REGION(S)
BR-A (PRIMARY BRICK)					
BR-02	ACME BRICK	PALOMA GRAY	ARGOS, SAN TAN	ELGIN, TX	SOUTHWEST
BR-18	MUTUAL MATERIALS	IMPERIAL GREY	ARGOS, SAN TAN	MICA, WA	WEST
BR-20	GLEN-GERY	KHAKI MATT	ARGOS, SAN TAN	CHESWICK, PA	ATLANTIC, NORTHEAST, MIDWEST
BR-30	CHEROKEE BRICK	LIGHT GRAY SMOOTH	ARGOS, SAN TAN	MACON, GA	SOUTHEAST

FINISH SCHEDULE - EXTERIOR

MARK	DESCRIPTION	MANUFACTURER	MODEL NAME	MODEL NUMBER	COLOR	NOTE
BR-A	THIN BRICK	*	MODULAR	*	*	*SEE APPROVED BRICK ATERNATES
CP-1	CANOPY METAL FASCIA		DURA COAT	DC19ST-2703	DARK BRONZE	OIL RUBBED BRONZE METALLIC TEXTURE PVD
CP-2	CANOPY METAL DECK				WHITE	SMOOTH WHITE, HIGH GLOSS
EC-1	PARAPET WALL COPING	DUROLAST / EXCEPTIONAL METALS			MIDNIGHT BRONZE	
PT-100	EXTERIOR PAINT	SHERWIN WILLIAMS	SHER-CRYL HIGH PERFORMANCE ACRYLIC #B66-350	SW 2807	ROOKWOOD	REFUSE ENCLOSURE. FINISH: SEMI-GLOSS ON DOOR FRAMES, SATIN ON WALLS
PT-113	EXTERIOR PAINT	SHERWIN WILLIAMS	SHER-CRYL HIGH PERFORMANCE ACRYLIC #B66-350	SW Bronzetone	DARK BRONZE	FINISH: SEMI-GLOSS
SC-1	STUCCO	STO	POWERWALL	SW 7566	WEST HIGHLAND WHITE	FINISH: SAND MEDIUM
SC-2	STUCCO	STO	POWERWALL	SW 6172	HARDWARE	FINISH: SAND MEDIUM
ST-1	STOREFRONT	YKK	YES 45		DARK BRONZE (MATTE)	

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SHEET
EXTERIOR ELEVATIONS

SHEET NUMBER
A-301

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11-LS-05484-A-301-EXTERIOR ELEVATIONS

C2 PERSPECTIVE

C1 PERSPECTIVE

A2 PERSPECTIVE

A1 PERSPECTIVE

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11-LS-05484-A-401-EXTERIOR PERSPECTIVES

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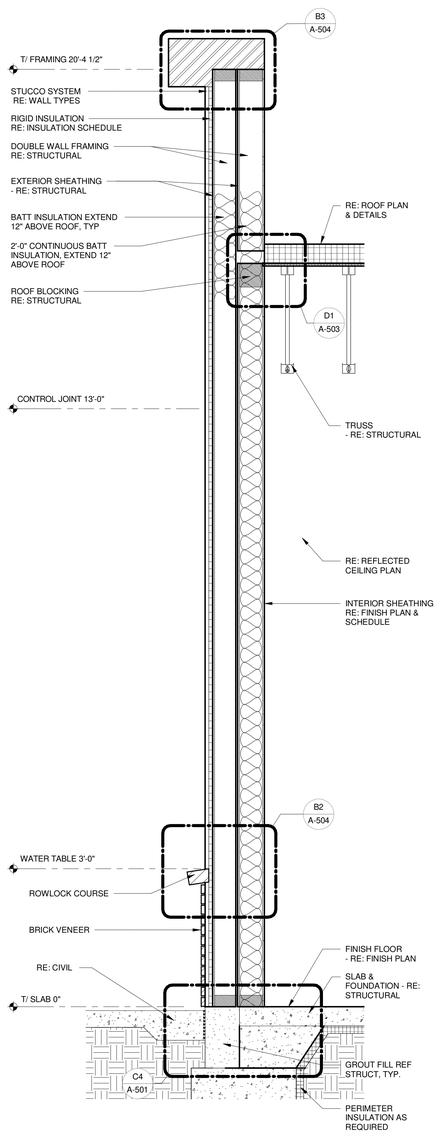
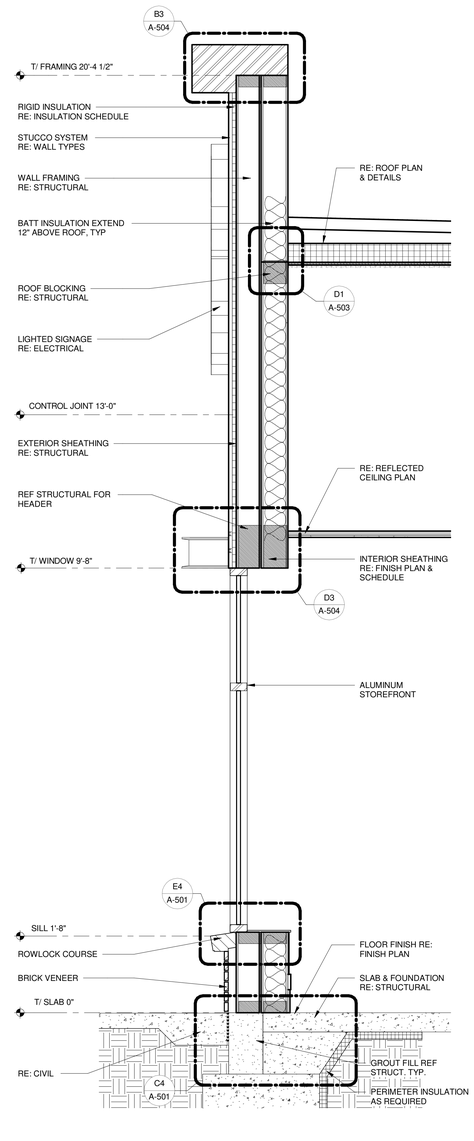
SHEET
EXTERIOR PERSPECTIVES

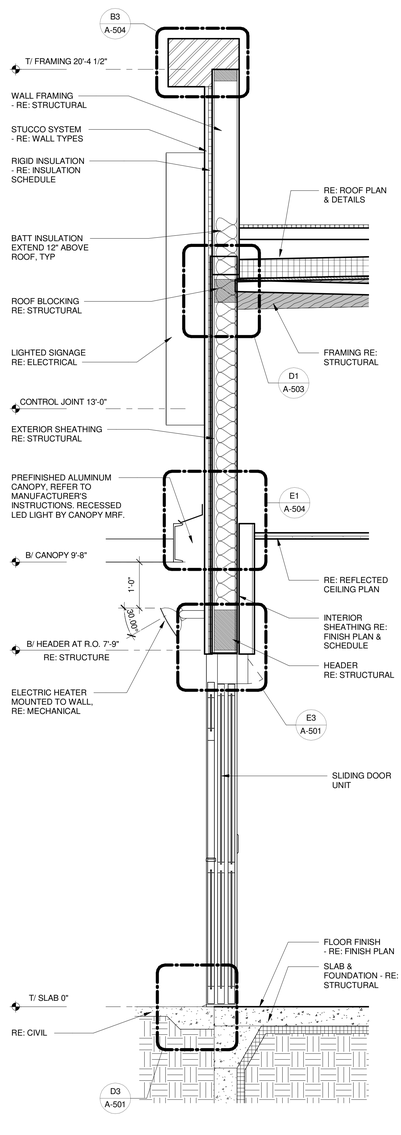
SHEET NUMBER
A-401



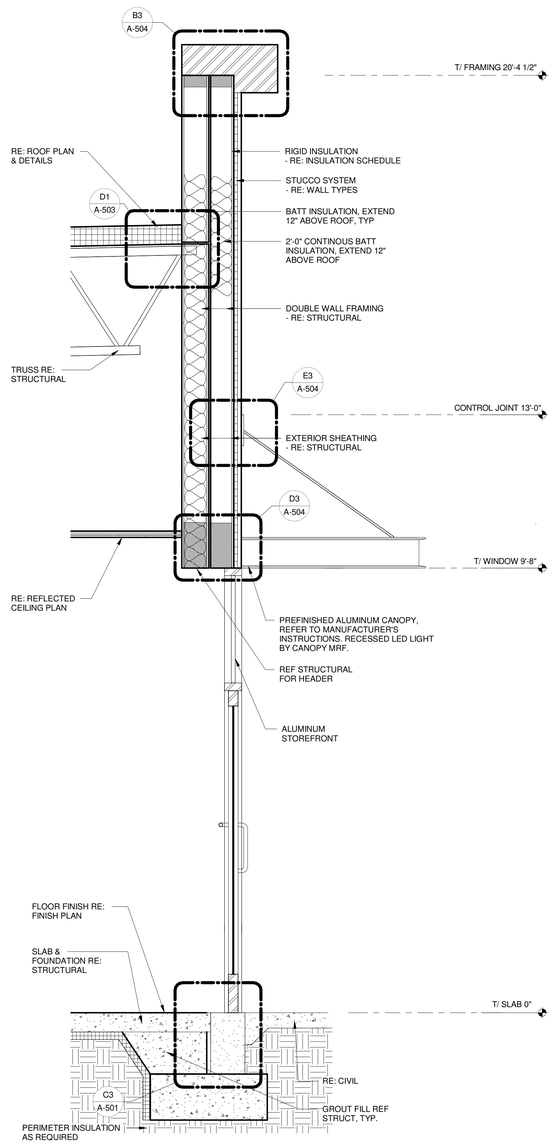
A4 WALL SECTION
3/4" = 1'-0"



A3 WALL SECTION
3/4" = 1'-0"



A2 WALL SECTION
3/4" = 1'-0"



A1 WALL SECTION
3/4" = 1'-0"

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3199
SCOTTSDALE, AZ
STATE OF MONTANA
REGISTERED ARCHITECT
11/12/2025

CHICK-FIL-A
CUSTER & WASHINGTON

2770 N WASHINGTON STREET
HELENA, MONTANA 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
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NO.	DATE	DESCRIPTION

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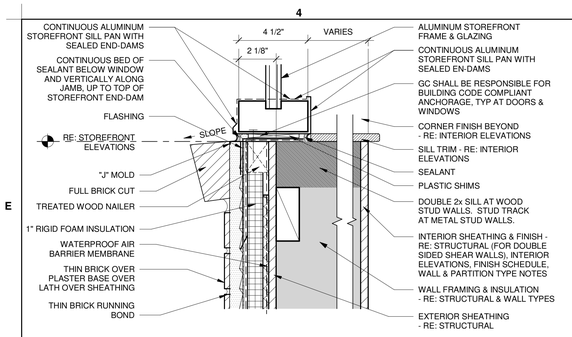
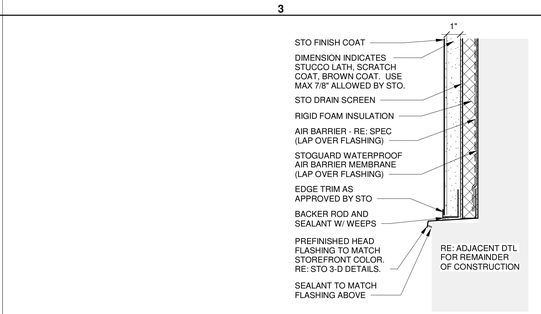
SHEET
WALL SECTIONS

SHEET NUMBER
A-402

11/12/2025 2:20:39 PM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_ARC.rvt
10-LS-05484-A-402-WALL SECTIONS

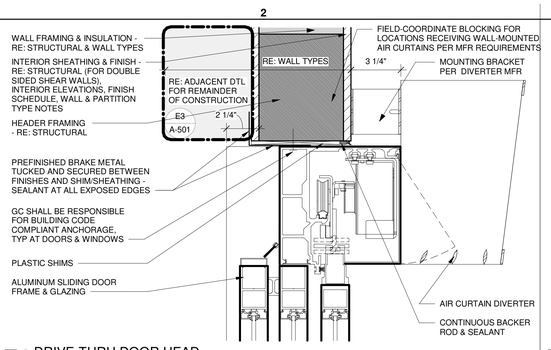


E4 BRICK WINDOW SILL
3" = 1'-0"

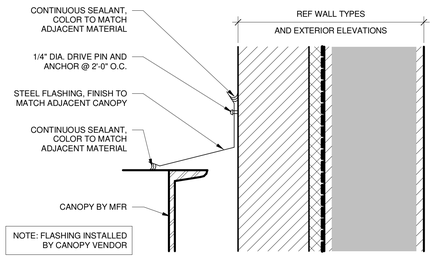


AT STUCCO LOCATIONS - REF ELEVATIONS

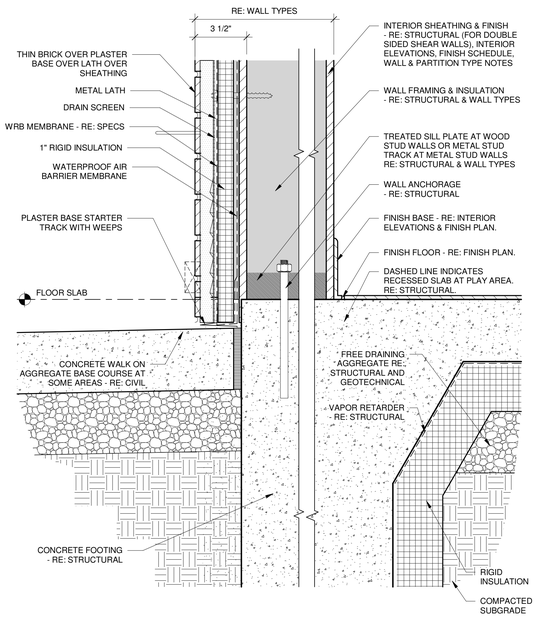
E3 DRIVE-THRU DOOR HEAD - FINISHES
3" = 1'-0"



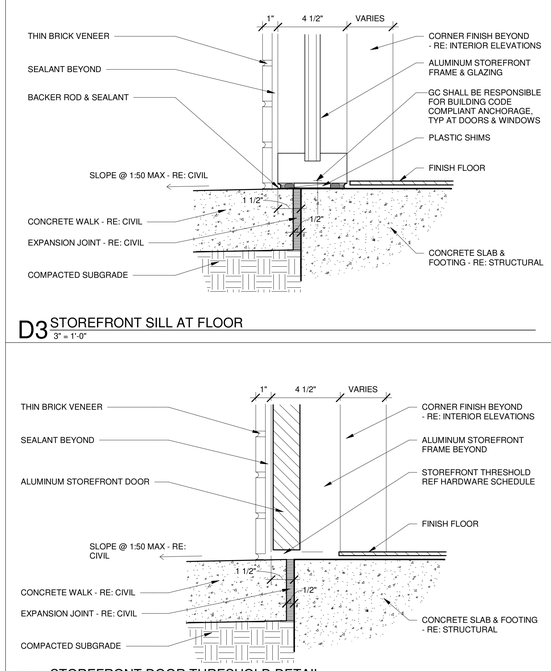
E2 DRIVE-THRU DOOR HEAD
3" = 1'-0"



E1 DETACHED CANOPY FLASHING DETAIL
3" = 1'-0"

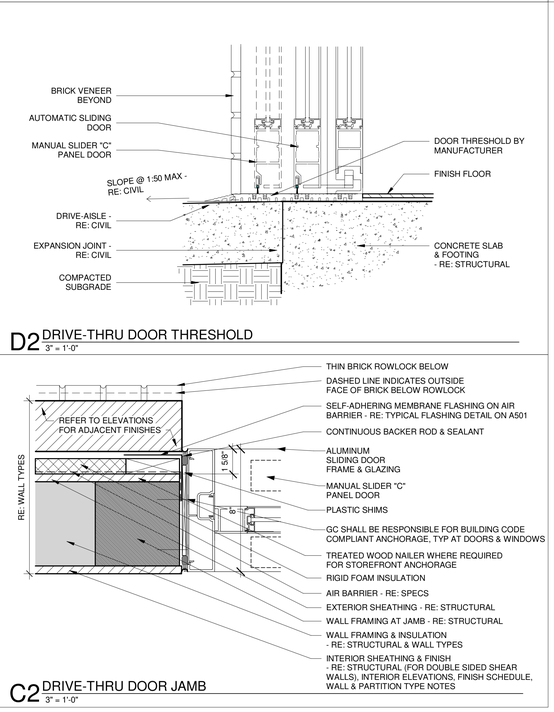


C4 BRICK WALL BASE
3" = 1'-0"



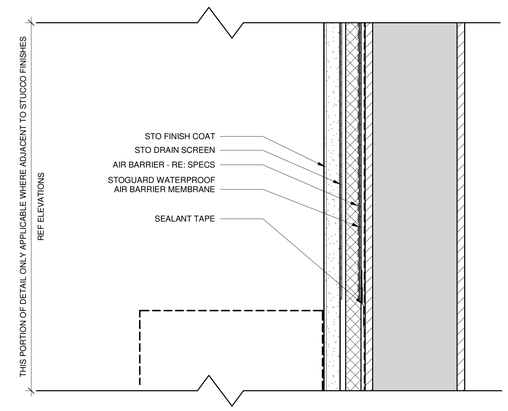
D3 STOREFRONT SILL AT FLOOR
3" = 1'-0"

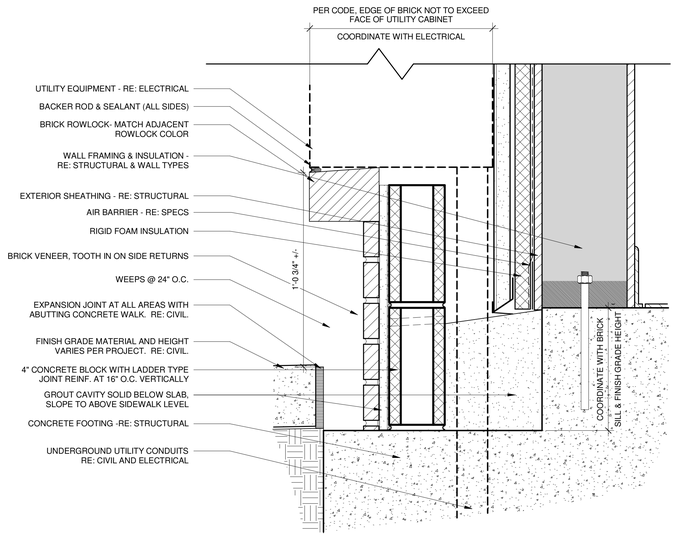
C3 STOREFRONT DOOR THRESHOLD DETAIL
3" = 1'-0"



D2 DRIVE-THRU DOOR THRESHOLD
3" = 1'-0"

C2 DRIVE-THRU DOOR JAMB
3" = 1'-0"





A1 UTILITY KNEE WALL
3" = 1'-0"

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CERTIFICATE OF AUTHORIZATION
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SCOTTSDALE, AZ
STATE OF MONTANA
11/12/2025

CHICK-FIL-A
CUSTER & WASHINGTON

2770 N WASHINGTON STREET
HELENA, MONTANA 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
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CONSULTANT PROJECT # LAX22-0129-01
DATE 10/20/2025
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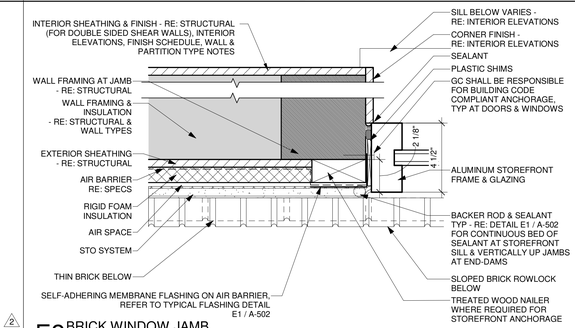
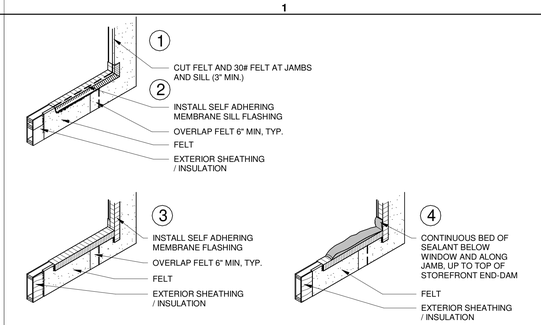
SHEET
EXTERIOR DETAILS

SHEET NUMBER
A-501

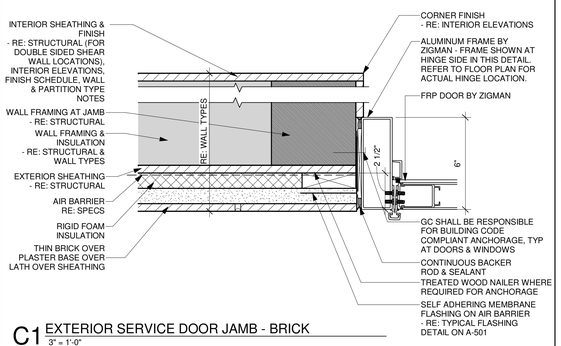
11/12/2025 2:20:41 PM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_ARC.rvt
10-LS-05484-A-501-EXTERIOR DETAILS



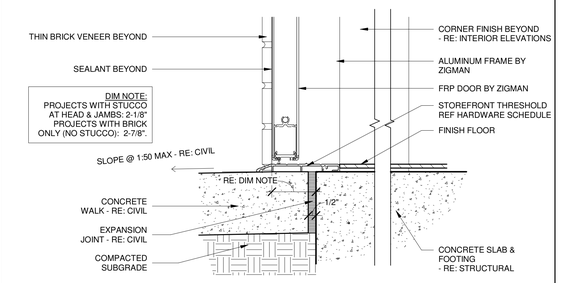
2 E2 BRICK WINDOW JAMB
3" = 1'-0"



E1 TYPICAL FLASHING AT WINDOW JAMBS & SILL
1/4" = 1'-0"



C1 EXTERIOR SERVICE DOOR JAMB - BRICK
3" = 1'-0"



B1 EXTERIOR SERVICE DOOR THRESHOLD
3" = 1'-0"

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11/12/2025

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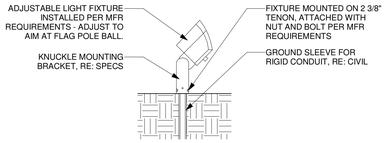
SHEET
EXTERIOR DETAILS

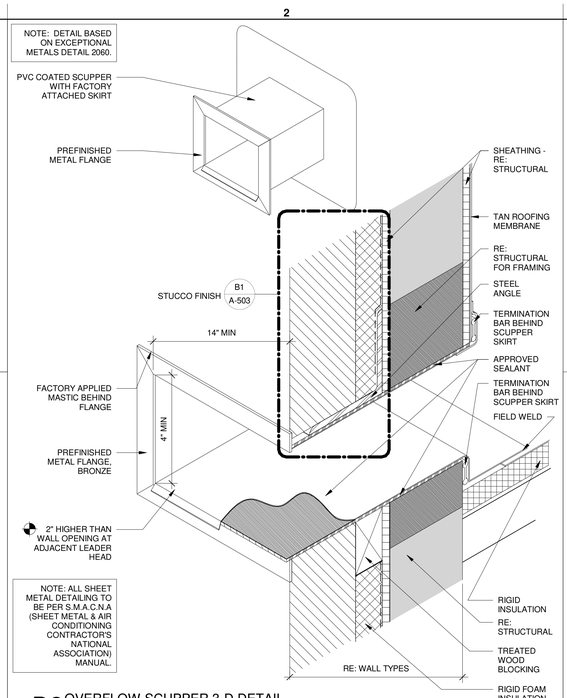
SHEET NUMBER
A-502

11/12/2025 2:20:42 PM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_ARC.rvt
10-LS-05484-A-502-EXTERIOR DETAILS



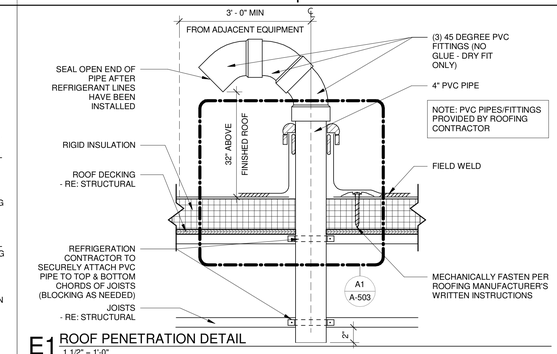
E3 LIGHT FIXTURE DETAIL - GROUND MOUNT
1" = 1'-0"

NOTE: DETAIL BASED ON EXCEPTIONAL METALS DETAIL 2060.

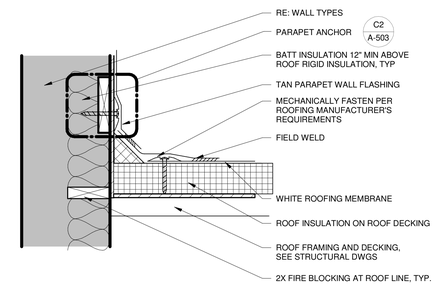


NOTE: ALL SHEET METAL DETAILING TO BE PER S.M.A.C.N.A (SHEET METAL & AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION) MANUAL.

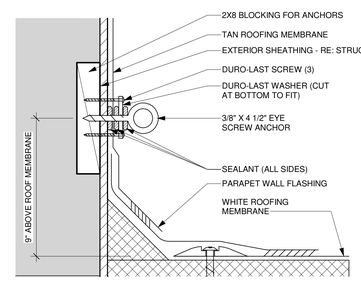
D2 OVERFLOW SCUPPER 3-D DETAIL
3" = 1'-0"



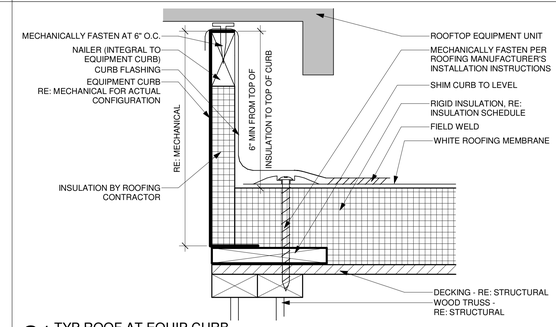
E1 ROOF PENETRATION DETAIL
1 1/2" = 1'-0"



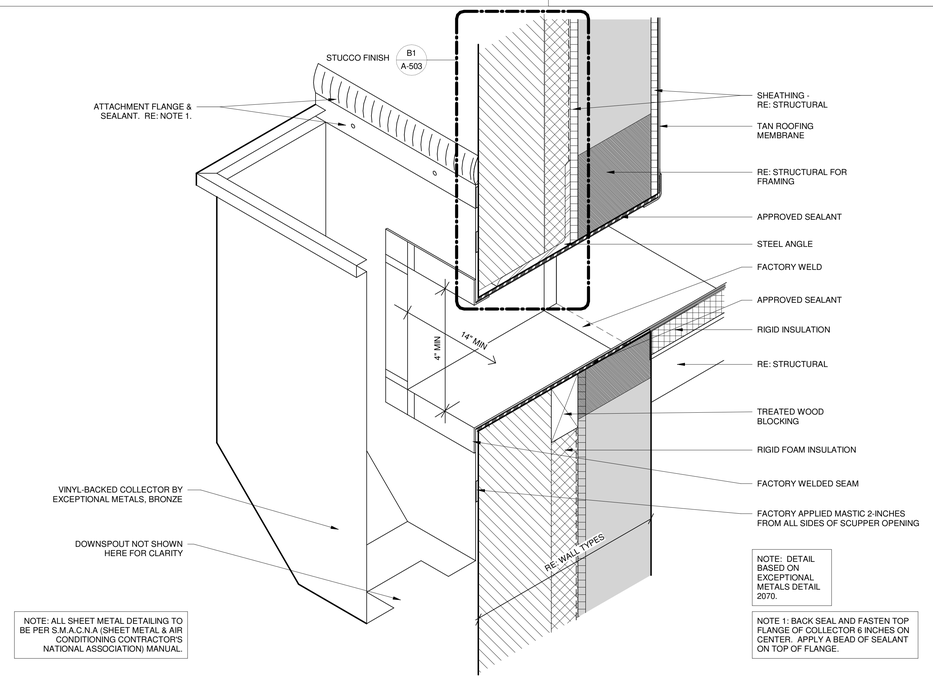
D1 TYP ROOF TO WALL SECTION
1 1/2" = 1'-0"



C2 TYP PARAPET ANCHOR DETAIL
3" = 1'-0"



C1 TYP ROOF AT EQUIP CURB
3" = 1'-0"

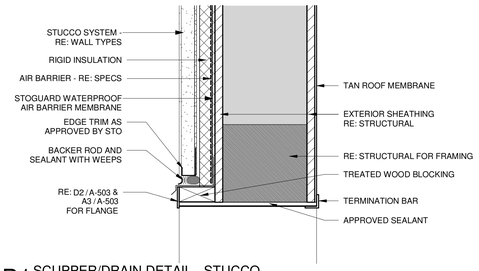


NOTE: ALL SHEET METAL DETAILING TO BE PER S.M.A.C.N.A (SHEET METAL & AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION) MANUAL.

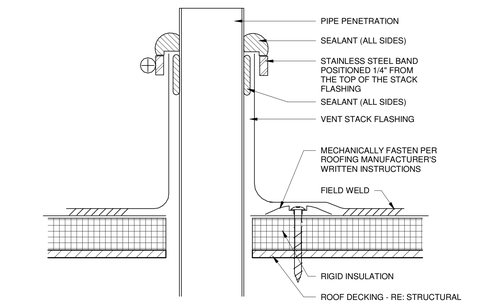
NOTE: DETAIL BASED ON EXCEPTIONAL METALS DETAIL 2070.

NOTE 1: BACK SEAL AND FASTEN TOP FLANGE OF COLLECTOR 6 INCHES ON CENTER. APPLY A BEAD OF SEALANT ON TOP OF FLANGE.

A3 VINYL-BACK COLLECTOR (LEADER HEAD) 3-D DETAIL
3" = 1'-0"



B1 SCUPPER/DRAIN DETAIL - STUCCO
3" = 1'-0"



A1 TYP ROOF PENETRATION DETAIL
3" = 1'-0"

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KEVIN T. EVERNHAM 3199 SCOTTSDALE, AZ
REGISTERED ARCHITECT STATE OF MONTANA
11/12/2025

CHICK-FIL-A
CUSTER & WASHINGTON

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HELENA, MONTANA 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
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SHEET
EXTERIOR DETAILS

SHEET NUMBER
A-503

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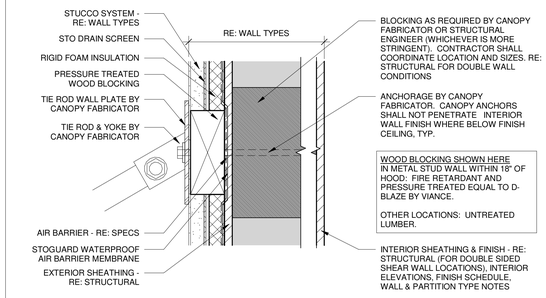
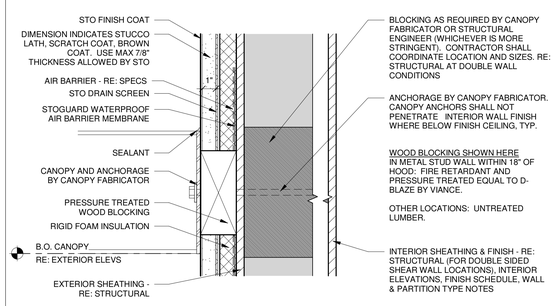
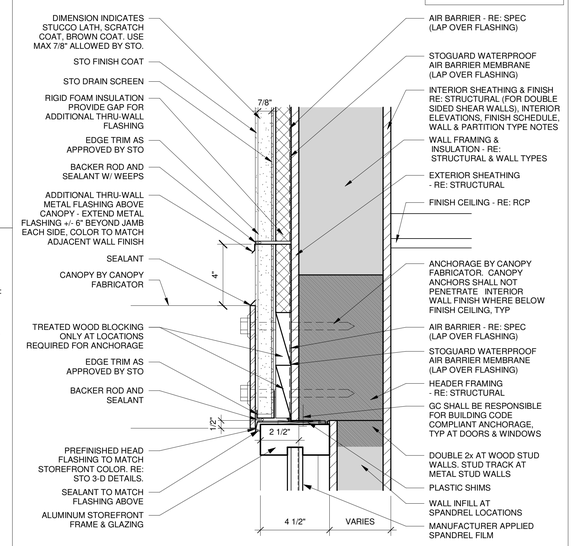
10-LS-05484-A-503-EXTERIOR DETAILS



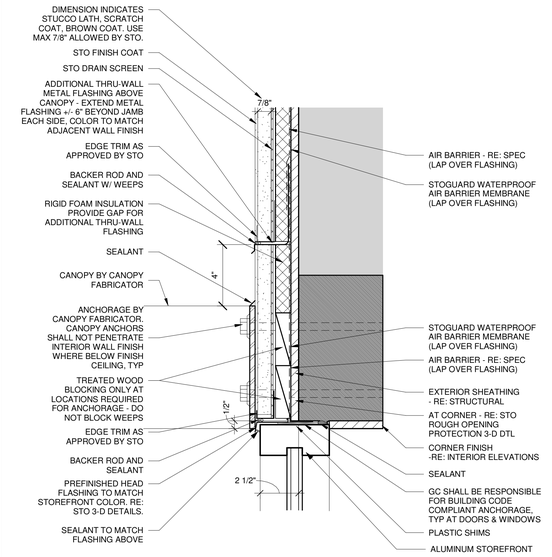
E3 CANOPY TIE-ROD & STUCCO JUNCTION
3" = 1'-0"



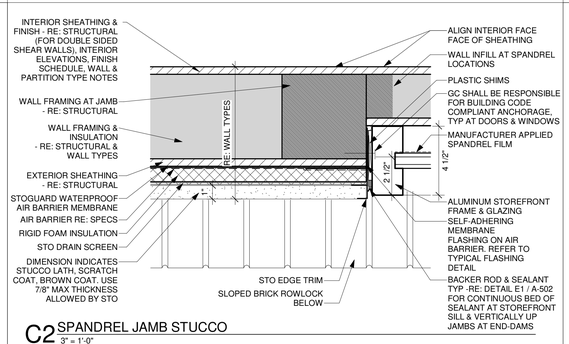
D3 CANOPY & STUCCO JUNCTION
3" = 1'-0"



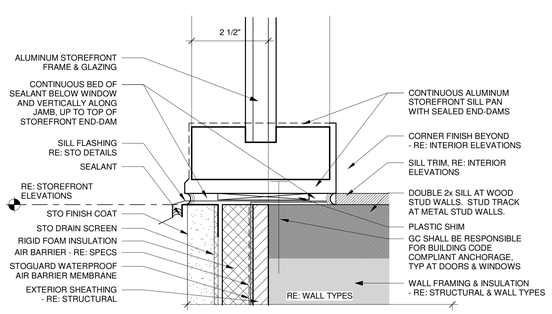
D2 SPANDREL HEAD STUCCO
3" = 1'-0"



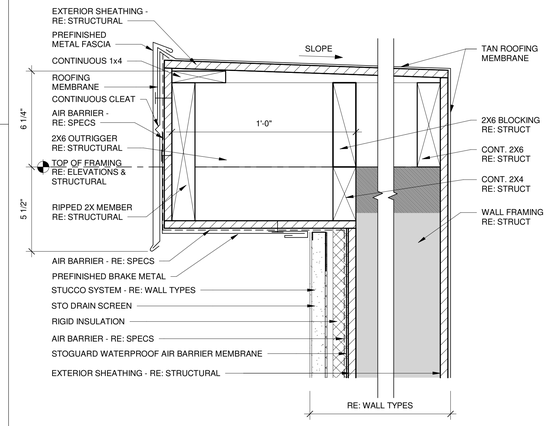
E1 STUCCO WINDOW HEAD
3" = 1'-0"



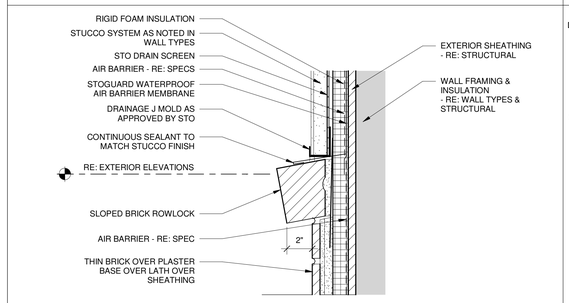
C2 SPANDREL JAMB STUCCO
3" = 1'-0"



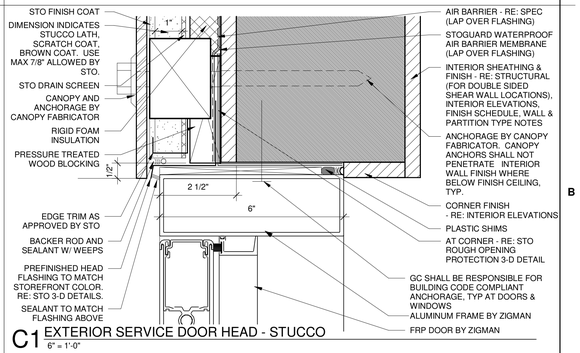
D1 STUCCO WINDOW SILL
6" = 1'-0"



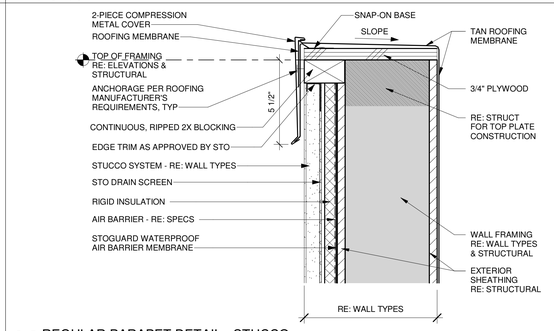
B3 EXTENDED PARAPET DETAIL - STUCCO
3" = 1'-0"



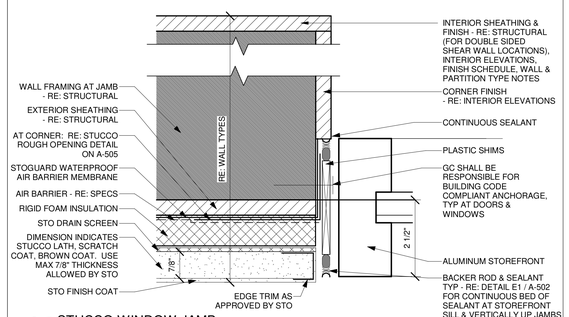
B2 BRICK & STUCCO JUNCTION - SECTION
3" = 1'-0"



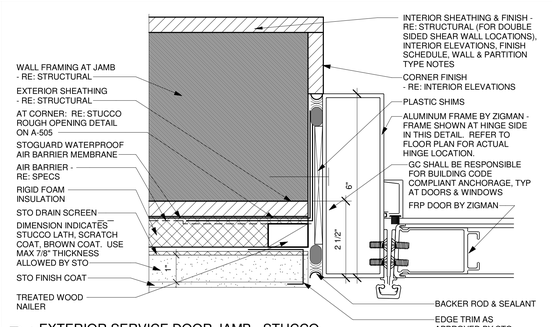
C1 EXTERIOR SERVICE DOOR HEAD - STUCCO
6" = 1'-0"



A3 REGULAR PARAPET DETAIL - STUCCO
3" = 1'-0"



A2 STUCCO WINDOW JAMB
6" = 1'-0"



B1 EXTERIOR SERVICE DOOR JAMB - STUCCO
6" = 1'-0"

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CUSTER & WASHINGTON

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DATE 10/20/2025
DRAWN BY M.M.O./ K.G.

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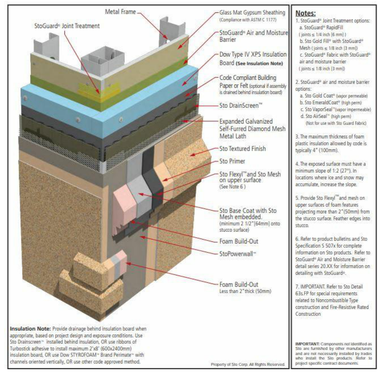
SHEET
EXTERIOR DETAILS

SHEET NUMBER
A-504

11/12/2025 2:20:46 PM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR05484_Custer & Washington FSU_ARC.rvt
10-LS-05484-A-504-EXTERIOR DETAILS

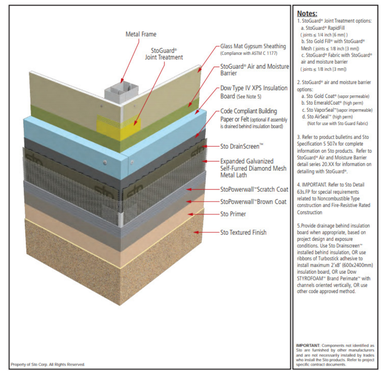


Notes:

1. StoGuard® Joint Treatment options:
   a. StoGuard® RapidFill (joints ≤ 1/4 inch [6 mm])
   b. Sto Gold FIF® with StoGuard® Mesh (joints ≤ 1/8 inch [3 mm])
   c. StoGuard® Fabric with StoGuard® air and moisture barrier (joints ≤ 1/8 inch [3 mm])
2. StoGuard® air and moisture barrier options:
   a. Sto Gold Coat® (vapor permeable)
   b. Sto EmeraldCoat® (high perm)
   c. Sto VaporSeal® (vapor impermeable)
   d. Sto AirSeal® (high perm)
      (Not for use with Sto Guard Fabric)
3. The maximum thickness of foam plastic insulation allowed by code is typically 4" (100mm).
4. The exposed surface must have a minimum slope of 1:2 (27°) in locations where ice and snow may accumulate, increase the slope.
5. Provide Sto Flexyl™ and mesh on upper surfaces of foam features projecting more than 2" (50mm) from the stucco surface. Feather edges into stucco.
6. Refer to product bulletins and Sto Specification S 507x for complete information on Sto products. Refer to StoGuard® Air and Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
7. IMPORTANT: Refer to Sto Detail 63s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction

IMPORTANT: Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

D4 FOAM BUILDOUT (63s.20)
3/4" = 1'-0"

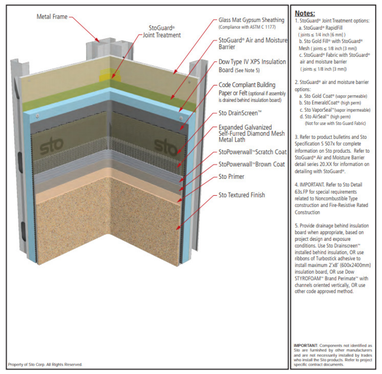


Notes:

1. StoGuard® Joint Treatment options:
   a. StoGuard® RapidFill (joints ≤ 1/4 inch [6 mm])
   b. Sto Gold FIF® with StoGuard® Mesh (joints ≤ 1/8 inch [3 mm])
   c. StoGuard® Fabric with StoGuard® air and moisture barrier (joints ≤ 1/8 inch [3 mm])
2. StoGuard® air and moisture barrier options:
   a. Sto Gold Coat® (vapor permeable)
   b. Sto EmeraldCoat® (high perm)
   c. Sto VaporSeal® (vapor impermeable)
   d. Sto AirSeal® (high perm)
      (Not for use with Sto Guard fabric)
3. Refer to product bulletins and Sto Specification S 507x for complete information on Sto products. Refer to StoGuard® Air and Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
4. IMPORTANT: Refer to Sto Detail 63s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction
5. Provide drainage behind insulation board when appropriate, based on project design and exposure conditions. Use Sto Drainscreen™ installed behind insulation, OR use ribbons of Turbostick adhesive to install maximum 2'x8' (600x2400mm) insulation board, OR use Dow STYROFOAM™ Brand Perimate™ with channels oriented vertically, OR use other code approved method.

IMPORTANT: Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

D3 STUCCO JOINT AT OUTSIDE CORNER (63s.14)
3/4" = 1'-0"

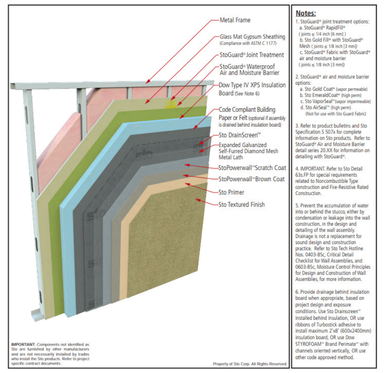


Notes:

1. StoGuard® Joint Treatment options:
   a. StoGuard® RapidFill (joints ≤ 1/4 inch [6 mm])
   b. Sto Gold FIF® with StoGuard® Mesh (joints ≤ 1/8 inch [3 mm])
   c. StoGuard® Fabric with StoGuard® air and moisture barrier (joints ≤ 1/8 inch [3 mm])
2. StoGuard® air and moisture barrier options:
   a. Sto Gold Coat® (vapor permeable)
   b. Sto EmeraldCoat® (high perm)
   c. Sto VaporSeal® (vapor impermeable)
   d. Sto AirSeal® (high perm)
      (Not for use with Sto Guard fabric)
3. Refer to product bulletins and Sto Specification S 507x for complete information on Sto products. Refer to StoGuard® Air and Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
4. IMPORTANT: Refer to Sto Detail 63s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction
5. Provide drainage behind insulation board when appropriate, based on project design and exposure conditions. Use Sto Drainscreen™ installed behind insulation, OR use ribbons of Turbostick adhesive to install maximum 2'x8' (600x2400mm) insulation board, OR use Dow STYROFOAM™ Brand Perimate™ with channels oriented vertically, OR use other code approved method.

IMPORTANT: Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

D2 STUCCO JOINT AT INSIDE CORNER (63s.12)
3/4" = 1'-0"

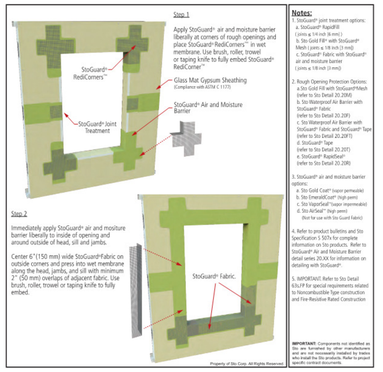


Notes:

1. StoGuard® Joint Treatment options:
   a. StoGuard® RapidFill (joints ≤ 1/4 inch [6 mm])
   b. Sto Gold FIF® with StoGuard® Mesh (joints ≤ 1/8 inch [3 mm])
   c. StoGuard® Fabric with StoGuard® air and moisture barrier (joints ≤ 1/8 inch [3 mm])
2. StoGuard® air and moisture barrier options:
   a. Sto Gold Coat® (vapor permeable)
   b. Sto EmeraldCoat® (high perm)
   c. Sto VaporSeal® (vapor impermeable)
   d. Sto AirSeal® (high perm)
      (Not for use with Sto Guard fabric)
3. Refer to product bulletins and Sto Specification S 507x for complete information on Sto products. Refer to StoGuard® Air and Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
4. IMPORTANT: Refer to Sto Detail 63s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction
5. Provide drainage behind insulation board when appropriate, based on project design and exposure conditions. Use Sto Drainscreen™ installed behind insulation, OR use ribbons of Turbostick adhesive to install maximum 2'x8' (600x2400mm) insulation board, OR use Dow STYROFOAM™ Brand Perimate™ with channels oriented vertically, OR use other code approved method.

IMPORTANT: Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

D1 STUCCO SYSTEM COMPONENTS (63s.00)
3/4" = 1'-0"



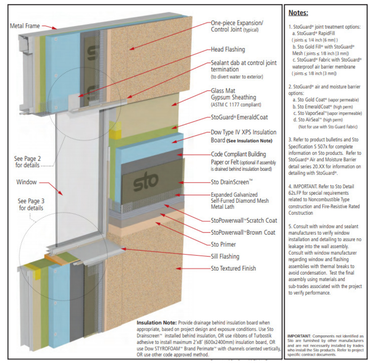
Notes:

1. StoGuard® joint treatment options:
   a. StoGuard® RapidFill (joints ≤ 1/4 inch [6 mm])
   b. Sto Gold FIF® with StoGuard® Mesh (joints ≤ 1/8 inch [3 mm])
   c. StoGuard® Fabric with StoGuard® air and moisture barrier (joints ≤ 1/8 inch [3 mm])
2. Rough Opening Protection Options:
   a. Sto Gold Fill with StoGuard®Mesh (refer to Sto Detail 20.20M)
   b. Sto Waterproof Air Barrier with StoGuard® Fabric (refer to Sto Detail 20.20F)
   c. Sto Waterproof Air Barrier with StoGuard® Fabric and StoGuard® Tape (refer to Sto Detail 20.20FT)
   d. StoGuard® Tape (refer to Sto Detail 20.20T)
   e. StoGuard® RapidSeal® (refer to Sto Detail 20.20R)
3. StoGuard® air and moisture barrier options:
   a. Sto Gold Coat® (vapor permeable)
   b. Sto EmeraldCoat® (high perm)
   c. Sto VaporSeal® (vapor impermeable)
   d. Sto AirSeal® (high perm)
      (Not for use with Sto Guard fabric)
4. Refer to product bulletins and Sto Specification S 507x for complete information on Sto products. Refer to StoGuard® Air and Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
5. IMPORTANT: Refer to Sto Detail 63s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction

IMPORTANT: Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

IN ADDITION TO STOGUARD FABRIC INSTALL A CONTINUOUS BED OF SEALANT BELOW WINDOW AND ALONG JAMB UP TO TOP OF STOREFRONT END-DAM. AS SHOWN IN E1/A-502

B4 STUCCO ROUGH OPENING PROTECTION (63s.04F)
3/4" = 1'-0"



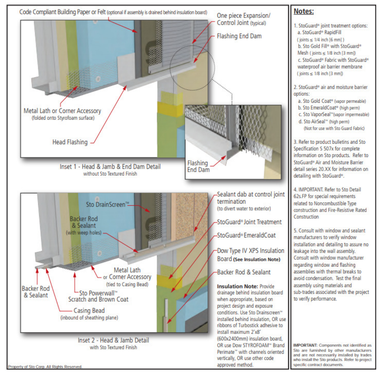
Notes:

1. StoGuard® joint treatment options:
   a. StoGuard® RapidFill (joints ≤ 1/4 inch [6 mm])
   b. Sto Gold FIF® with StoGuard® Mesh (joints ≤ 1/8 inch [3 mm])
   c. StoGuard® Fabric with StoGuard® waterproof air barrier membrane (joints ≤ 1/8 inch [3 mm])
2. StoGuard® air and moisture barrier options:
   a. Sto Gold Coat® (vapor permeable)
   b. Sto EmeraldCoat® (high perm)
   c. Sto VaporSeal® (vapor impermeable)
   d. Sto AirSeal® (high perm)
      (Not for use with Sto Guard fabric)
3. Refer to product bulletins and Sto Specification S 507x for complete information on Sto products. Refer to StoGuard® Air and Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
4. IMPORTANT: Refer to Sto Detail 63s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction
5. Consult with window and sealant manufacturers to verify window installation and detailing to assure no leakage into the wall assembly. Consult with window manufacturer regarding window and flashing assemblies with thermal breaks to avoid condensation. Test the final assembly using materials and sub-trades associated with the project to verify performance.

Insulation Note: Provide drainage behind insulation board when appropriate, based on project design and exposure conditions. Use Sto Drainscreen™ installed behind insulation, OR use ribbons of Turbostick adhesive to install maximum 2'x8' (600x2400mm) insulation board, OR use Dow STYROFOAM™ Brand Perimate™ with channels oriented vertically, OR use other code approved method.

IMPORTANT: Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

B3 STUCCO BOX WINDOW (63s.05)
3/4" = 1'-0"



Notes:

1. StoGuard® joint treatment options:
   a. StoGuard® RapidFill (joints ≤ 1/4 inch [6 mm])
   b. Sto Gold FIF® with StoGuard® Mesh (joints ≤ 1/8 inch [3 mm])
   c. StoGuard® Fabric with StoGuard® waterproof air barrier membrane (joints ≤ 1/8 inch [3 mm])
2. StoGuard® air and moisture barrier options:
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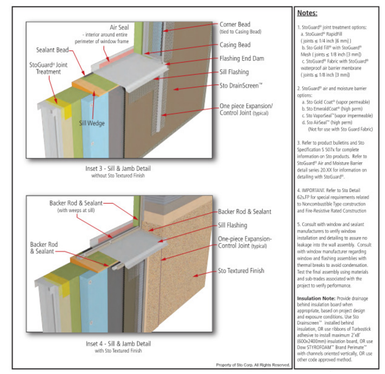
   c. Sto VaporSeal® (vapor impermeable)
   d. Sto AirSeal® (high perm)
      (Not for use with Sto Guard fabric)
3. Refer to product bulletins and Sto Specification S 507x for complete information on Sto products. Refer to StoGuard® Air and Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
4. IMPORTANT: Refer to Sto Detail 63s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction
5. Consult with window and sealant manufacturers to verify window installation and detailing to assure no leakage into the wall assembly. Consult with window manufacturer regarding window and flashing assemblies with thermal breaks to avoid condensation. Test the final assembly using materials and sub-trades associated with the project to verify performance.

Insulation Note: Provide drainage behind insulation board when appropriate, based on project design and exposure conditions. Use Sto Drainscreen™ installed behind insulation, OR use ribbons of Turbostick adhesive to install maximum 2'x8' (600x2400mm) insulation board, OR use Dow STYROFOAM™ Brand Perimate™ with channels oriented vertically, OR use other code approved method.

IMPORTANT: Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

B2 STUCCO WINDOW HEAD DETAIL (63s.05)
3/4" = 1'-0"



Notes:

1. StoGuard® joint treatment options:
   a. StoGuard® RapidFill (joints ≤ 1/4 inch [6 mm])
   b. Sto Gold FIF® with StoGuard® Mesh (joints ≤ 1/8 inch [3 mm])
   c. StoGuard® Fabric with StoGuard® waterproof air barrier membrane (joints ≤ 1/8 inch [3 mm])
2. StoGuard® air and moisture barrier options:
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   c. Sto VaporSeal® (vapor impermeable)
   d. Sto AirSeal® (high perm)
      (Not for use with Sto Guard Fabric)
3. Refer to product bulletins and Sto Specification S 507x for complete information on Sto products. Refer to StoGuard® Air and Moisture Barrier detail series 20.XX for information on detailing with StoGuard®.
4. IMPORTANT: Refer to Sto Detail 63s.FP for special requirements related to Noncombustible Type construction and Fire-Resistive Rated Construction
5. Consult with window and sealant manufacturers to verify window installation and detailing to assure no leakage into the wall assembly. Consult with window manufacturer regarding window and flashing assemblies with thermal breaks to avoid condensation. Test the final assembly using materials and sub-trades associated with the project to verify performance.

Insulation Note: Provide drainage behind insulation board when appropriate, based on project design and exposure conditions. Use Sto Drainscreen™ installed behind insulation, OR use ribbons of Turbostick adhesive to install maximum 2'x8' (600x2400mm) insulation board, OR use Dow STYROFOAM™ Brand Perimate™ with channels oriented vertically, OR use other code approved method.

IMPORTANT: Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

B1 STUCCO WINDOW SILL DETAIL (63s.05)
3/4" = 1'-0"

STUCCO DETAILS - GENERAL NOTES

A.1 ALL DETAILS FOR REFERENCE ONLY. REF WALL SECTIONS FOR FRAME TYPE AND FELT SPEC.
A.2 DETAILS PROVIDED BY MANUFACTURER. REF MANUFACTURER DETAIL PACKAGE FOR FURTHER INFORMATION.

WARE MALCOMB
ARCHITECTURE
INTERIORS
CIVIL ENGINEERING
PLANNING
BUILDING MEASUREMENT
915 Wilshire Blvd, Suite #2150
Los Angeles, CA 90017
P 310.903.4000

KEVIN T. EVERNHAM
3199
SCOTTSDALE, AZ
REGISTERED ARCHITECT
STATE OF MONTANA
11/12/2025

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

CHICK-FIL-A
CUSTER & WASHINGTON
2770 N WASHINGTON STREET
HELENA, MONTANA 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
PRINTED FOR
PERMIT RESUBMITTAL

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

PERMIT COPY
THIS SET OF APPROVED PLANS TO BE ON JOB SITE AT ALL TIMES

CONSULTANT PROJECT # LAX22-0129-01
DATE 10/20/2025
DRAWN BY M.M.O./ K.G.

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SHEET
EXTERIOR DETAILS

SHEET NUMBER
A-505

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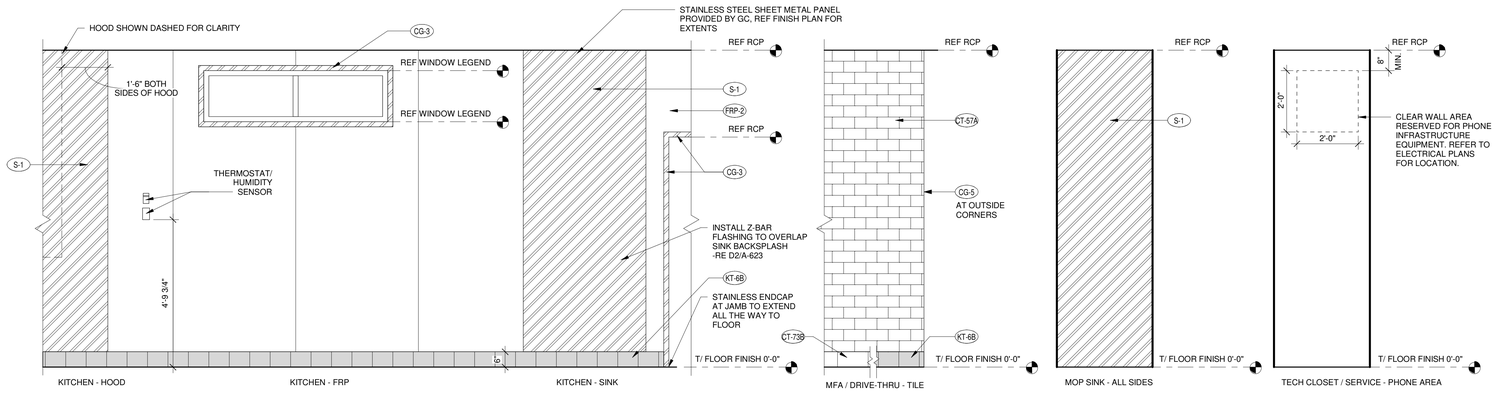
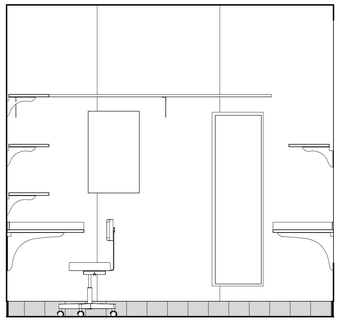
10-LS-05484-A-505-EXTERIOR DETAILS



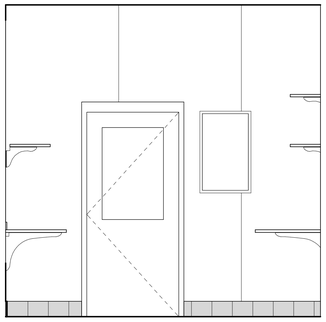
KITCHEN STANDARD ELEVATIONS

INTERIOR ELEVATION GENERAL NOTES

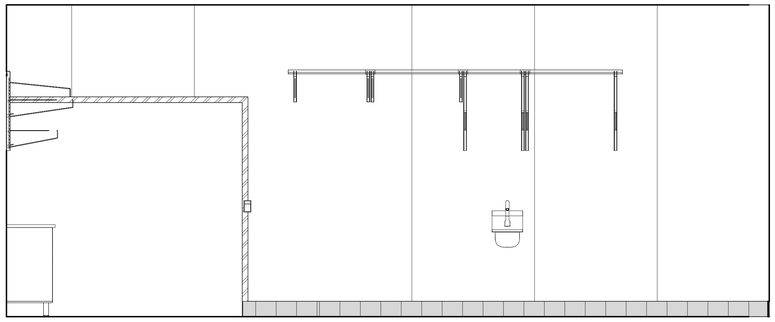
A.1 REFER TO DETAIL E3 / A-625 FOR WAINSCOT DETAILS.
A.2 GC TO PROVIDE BLOCKING FOR ALL WALL SHELVING AND EQUIPMENT. REFER TO K SHEETS FOR LOCATIONS. REFER TO A4 / A-624 FOR MORE DETAIL.
A.3. PROVIDE 5" HIGH CEMENTITIOUS BOARD SUBSTRATE AT BASE OF ALL WALLS IN DINING ROOM AND VESTIBULE.
A.4 PROVIDE 12" HIGH CEMENTITIOUS BOARD SUBSTRATE AT BASE OF ALL WALLS IN KITCHEN.
A.5 PROVIDE CEMENTITIOUS BOARD SUBSTRATE FOR THE FULL HEIGHT OF TILE AT ALL WALLS WITH WALL TILE.
A.6 AT WAINSCOT LOCATIONS, PROVIDE 5" HIGH CEMENTITIOUS BOARD BEHIND TILE BASE, THEN PLYWOOD SUBSTRATE TO TOP OF WAINSCOT, THEN GYPSUM BOARD TO CEILING.
A.7 BRAND ICON DIRECTION: WHEN ENTERING THE STORE FROM THE MAIN ENTRY, THE BEAK SHOULD POINT TO THE RIGHT.
A.8 REFER TO FRN SHEETS FOR SIGNAGE LOCATIONS. REFER TO A4 / A-625FOR DETAIL.
A.9 REFER TO C3 / A-604 FOR CORNER GUARD DETAIL. REFER TO PLANS AND ELEVATIONS FOR LOCATIONS. REFER TO E3 / A-624 AND E4 / A-624 FOR BRAND ICON DETAILS.



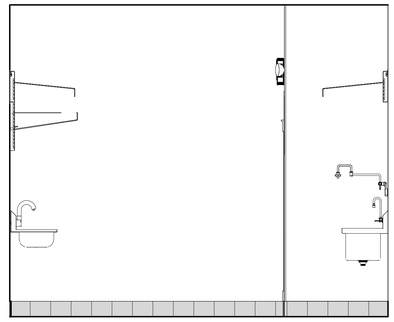
8 INTERIOR ELEVATION - OFFICE 2
1/2" = 1'-0"



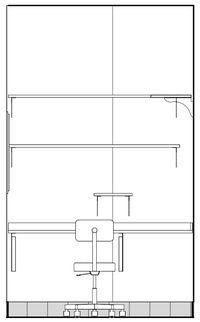
7 INTERIOR ELEVATION - OFFICE 2
1/2" = 1'-0"



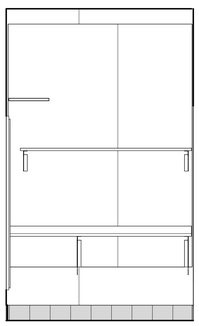
6 INTERIOR ELEVATION - DRIVE THRU
1/2" = 1'-0"



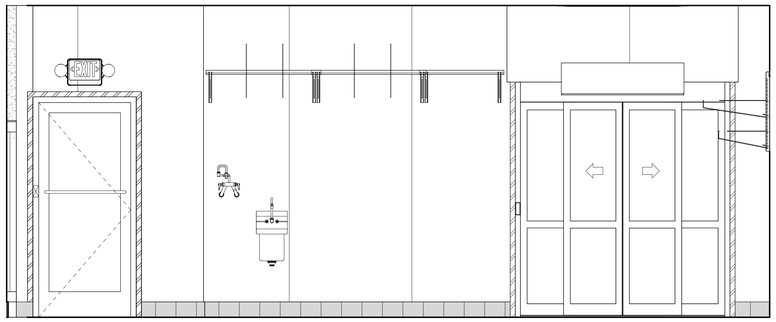
5 INTERIOR ELEVATION - DRIVE THRU
1/2" = 1'-0"



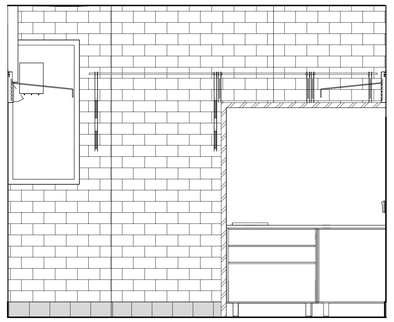
4 INTERIOR ELEVATION - OFFICE 2
1/2" = 1'-0"



3 INTERIOR ELEVATION - OFFICE 2
1/2" = 1'-0"



2 INTERIOR ELEVATION - DRIVE THRU
1/2" = 1'-0"



1 INTERIOR ELEVATION - DRIVE THRU
1/2" = 1'-0"

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

WARE MALCOMB
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ARCHITECT
KEVIN T. EVERNHAM
3199
SCOTTSDALE, AZ
STATE OF MONTANA
11/12/2025

CHICK-FIL-A
CUSTER & WASHINGTON
2770 N WASHINGTON STREET
HELENA, MONTANA 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
PRINTED FOR
PERMIT RESUBMITTAL

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
2	2025-08-22	PLAN CHECK - REV 2

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THIS SET OF APPROVED PLANS TO BE ON JOB SITE AT ALL TIMES

CONSULTANT PROJECT # LAX22-0129-01
DATE 10/20/2025
DRAWN BY M.M.O./ K.G.

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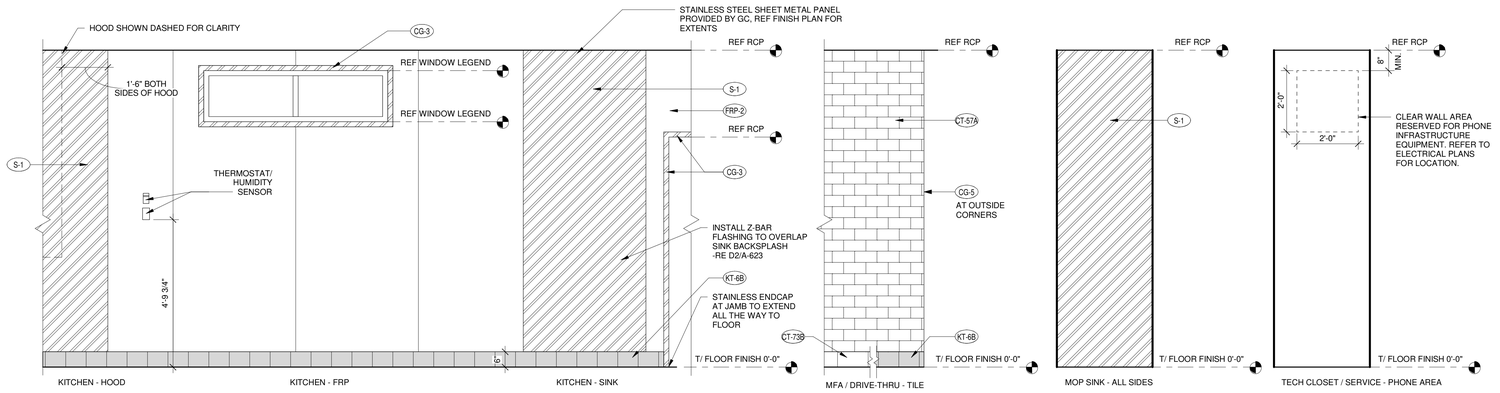
SHEET
KITCHEN ELEVATIONS AND DETAILS

SHEET NUMBER
A-601

11/12/2025 2:20:52 PM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_ARC.rvt
10-LS-05484-A-601-KITCHEN ELEVATIONS AND DETAILS



KITCHEN STANDARD ELEVATIONS

INTERIOR ELEVATION GENERAL NOTES

A.1 REFER TO DETAIL E3 / A-625 FOR WAINSCOT DETAILS.
A.2 GC TO PROVIDE BLOCKING FOR ALL WALL SHELVING AND EQUIPMENT. REFER TO K SHEETS FOR LOCATIONS. REFER TO A4 / A-624 FOR MORE DETAIL.
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A.4 PROVIDE 12" HIGH CEMENTITIOUS BOARD SUBSTRATE AT BASE OF ALL WALLS IN KITCHEN.
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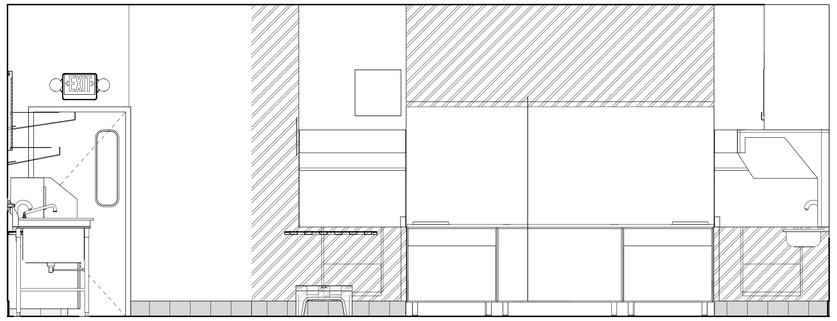
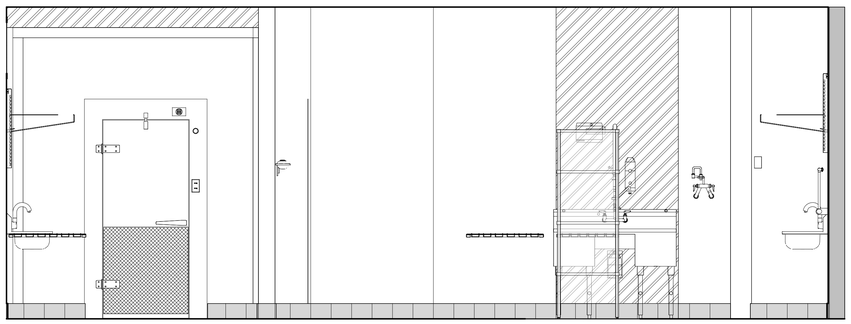
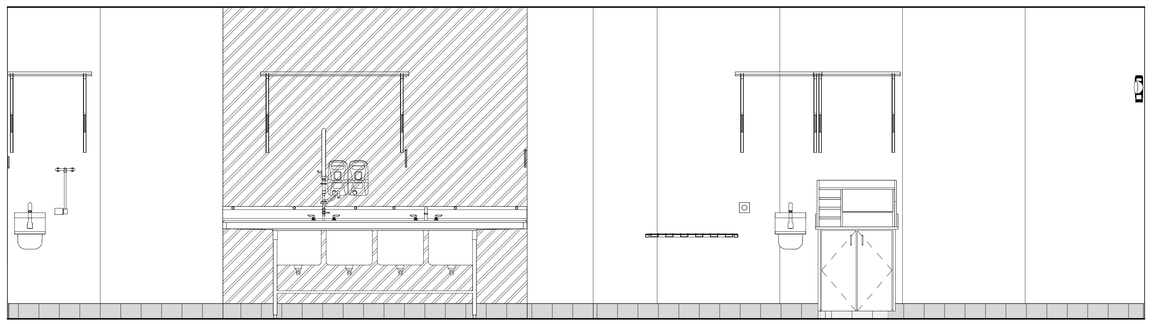
A.6 AT WAINSCOT LOCATIONS, PROVIDE 5" HIGH CEMENTITIOUS BOARD BEHIND TILE BASE. THEN PLYWOOD SUBSTRATE TO TOP OF WAINSCOT, THEN GYPSUM BOARD TO CEILING.
A.7 BRAND ICON DIRECTION: WHEN ENTERING THE STORE FROM THE MAIN ENTRY, THE BEAK SHOULD POINT TO THE RIGHT.
A.8 REFER TO FRN SHEETS FOR SIGNAGE LOCATIONS.
A.9 REFER TO A4 / A-625 FOR DETAIL.
REFER TO C3 / A-604 FOR CORNER GUARD DETAIL, REFER TO PLANS AND ELEVATIONS FOR LOCATIONS. REFER TO E3 / A-624 AND E4 / A-624 FOR BRAND ICON DETAILS.



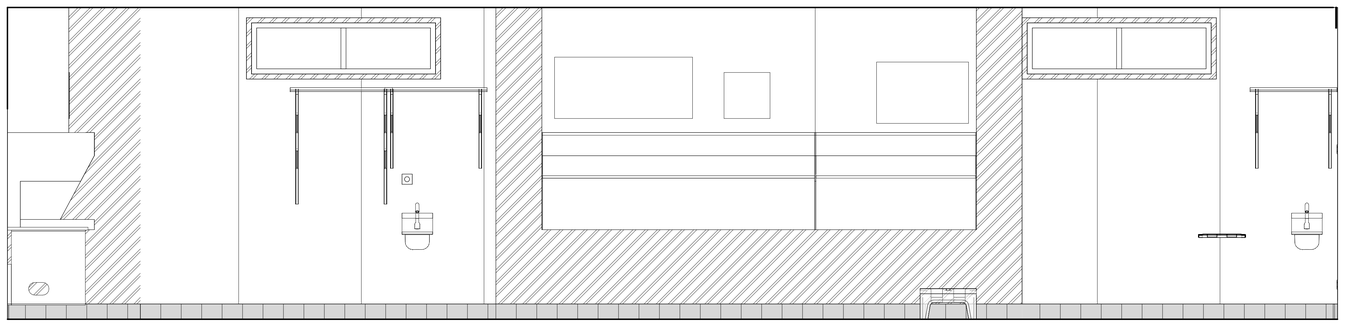
4 INTERIOR ELEVATION - KITCHEN
1/2" = 1'-0"



3 INTERIOR ELEVATION - KITCHEN
1/2" = 1'-0"



2 INTERIOR ELEVATION - KITCHEN
1/2" = 1'-0"



1 INTERIOR ELEVATION - KITCHEN
1/2" = 1'-0"

Chick-fil-A
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CIVIL ENGINEERING
LANDSCAPE
BUILDING MEASUREMENT

11/12/2025

CHICK-FIL-A
CUSTER & WASHINGTON

2770 N WASHINGTON STREET
HELENA, MONTANA 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
PRINTED FOR
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION

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CONSULTANT PROJECT # LAX22-0129-01
DATE 10/20/2025
DRAWN BY M.M.O./ K.G.

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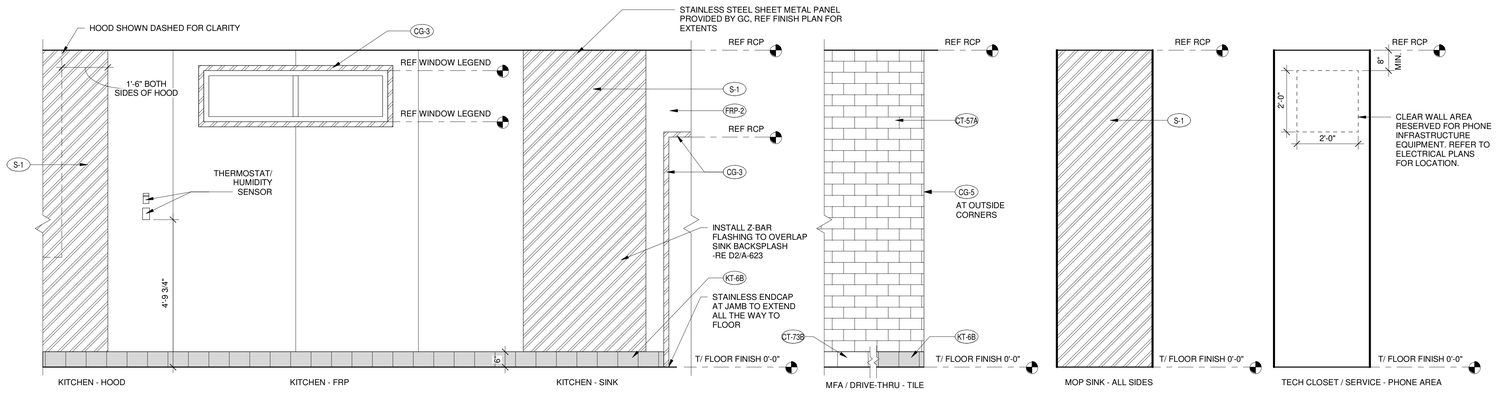
SHEET
KITCHEN ELEVATIONS AND DETAILS

SHEET NUMBER
A-602

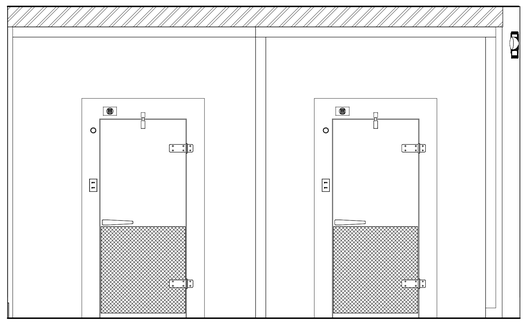
11/12/2025 2:20:58 PM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_ARC.rvt
10-LS-05484-A-602-KITCHEN ELEVATIONS AND DETAILS



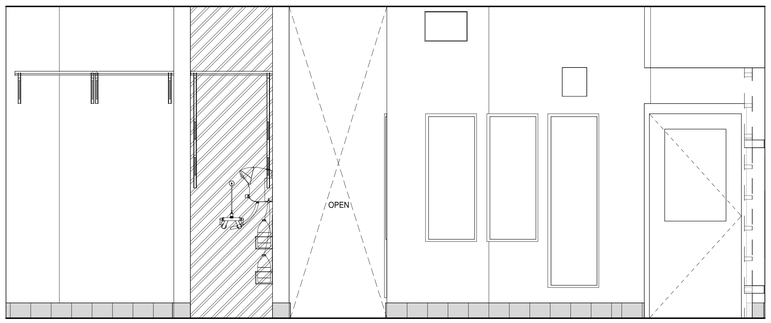
KITCHEN STANDARD ELEVATIONS

INTERIOR ELEVATION GENERAL NOTES

A.1 REFER TO DETAIL E3 / A-625 FOR WAINSCOT DETAILS.
A.2 GC TO PROVIDE BLOCKING FOR ALL WALL SHELVING AND EQUIPMENT. REFER TO K SHEETS FOR LOCATIONS. REFER TO A4 / A-624 FOR MORE DETAIL.
A.3. PROVIDE 5" HIGH CEMENTITIOUS BOARD SUBSTRATE AT BASE OF ALL WALLS IN DINING ROOM AND VESTIBULE.
A.4 PROVIDE 12" HIGH CEMENTITIOUS BOARD SUBSTRATE AT BASE OF ALL WALLS IN KITCHEN.
A.5 PROVIDE CEMENTITIOUS BOARD SUBSTRATE FOR THE FULL HEIGHT OF TILE AT ALL WALLS WITH WALL TILE.
A.6 AT WAINSCOT LOCATIONS, PROVIDE 5" HIGH CEMENTITIOUS BOARD BEHIND TILE BASE, THEN PLYWOOD SUBSTRATE TO TOP OF WAINSCOT, THEN GYPSUM BOARD TO CEILING.
A.7 BRAND ICON DIRECTION: WHEN ENTERING THE STORE FROM THE MAIN ENTRY, THE BEAK SHOULD POINT TO THE RIGHT.
A.8 REFER TO FRN SHEETS FOR SIGNAGE LOCATIONS.
A.9 REFER TO A4 / A-625 FOR DETAIL.
REFER TO C3 / A-604 FOR CORNER GUARD DETAIL, REFER TO PLANS AND ELEVATIONS FOR LOCATIONS. REFER TO E3 / A-624 AND E4 / A-624 FOR BRAND ICON DETAILS.



3 INTERIOR ELEVATION - SERVICE 2
1/2" = 1'-0"



2 INTERIOR ELEVATION - SERVICE
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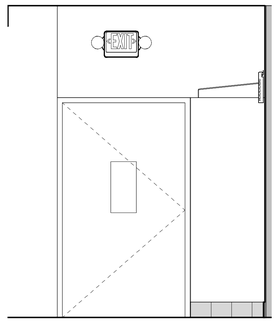
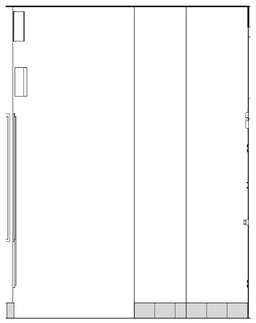


4 INTERIOR ELEVATION - SERVICE 2
1/2" = 1'-0"



1 INTERIOR ELEVATION - SERVICE 2
1/2" = 1'-0"

Chick-fil-A
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Atlanta, Georgia
30349-2998

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STATE OF MONTANA
REGISTERED ARCHITECT
11/12/2025

CHICK-FIL-A
CUSTER & WASHINGTON

2770 N WASHINGTON STREET
HELENA, MONTANA 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
PRINTED FOR
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION
2	2025-08-22	PLAN CHECK - REV 2

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CONSULTANT PROJECT # LAX22-0129-01
DATE 10/20/2025
DRAWN BY M.M.O./ K.G.

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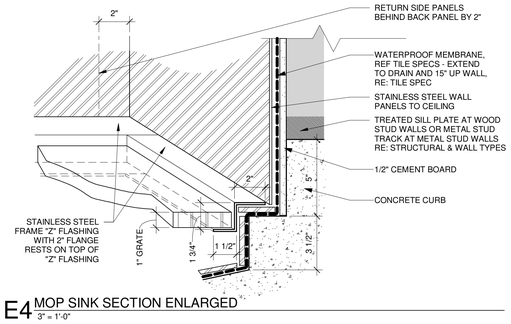
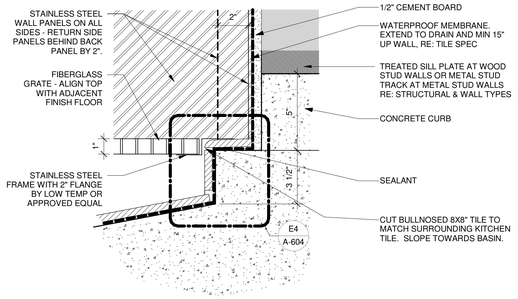
SHEET
KITCHEN ELEVATIONS AND DETAILS

SHEET NUMBER
A-603

11/12/2025 2:21:01 PM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_ARC.rvt
10-LS-05484-A-603-KITCHEN ELEVATIONS AND DETAILS



E4 MOP SINK SECTION ENLARGED
3" = 1'-0"



E3 MOP SINK SECTION ENLARGED
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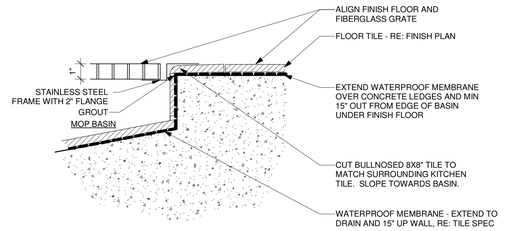
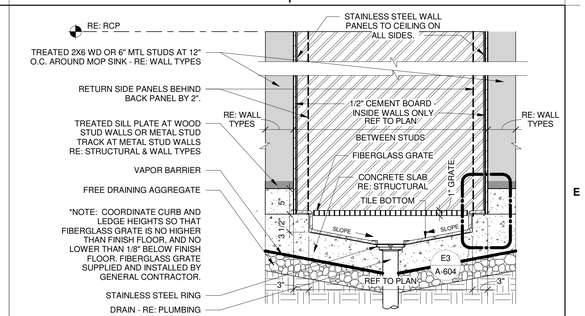
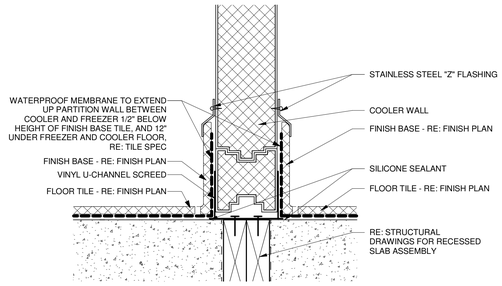


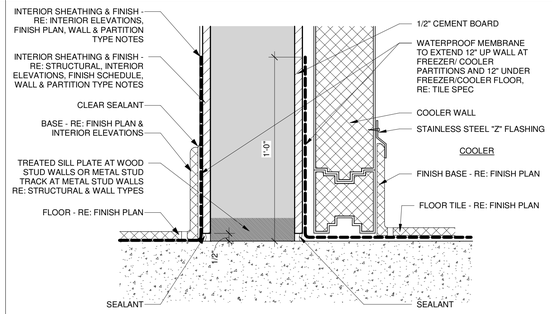
E2 MOP SINK FRONT EDGE
3" = 1'-0"



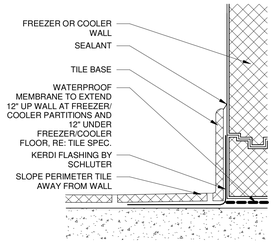
E1 MOP SINK SECTION @ EXTERIOR WALL
1" = 1'-0"



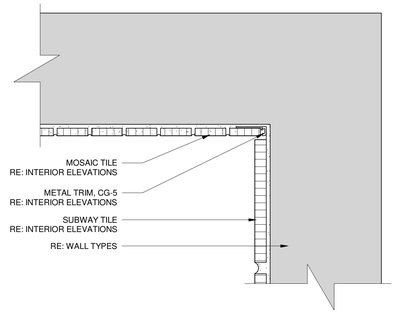
D4 DETAIL AT WALK-IN PARTITION
3" = 1'-0"



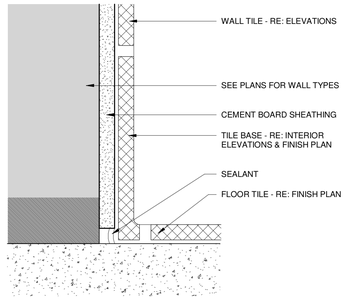
D3 DETAIL AT WALK-IN SCREED
3" = 1'-0"



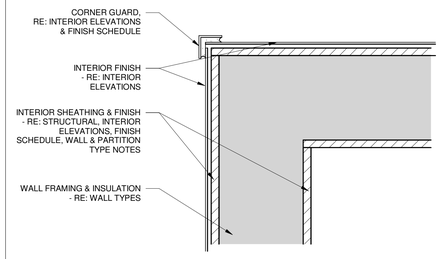
D2 KERDI FLASHING DETAIL
3" = 1'-0"



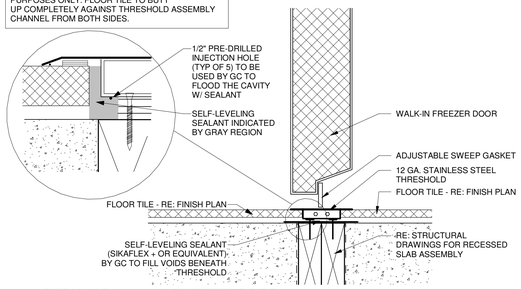
D1 DETAIL PLAN AT TILE CORNER
6" = 1'-0"



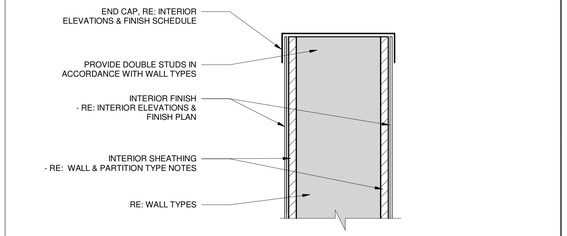
C4 DETAIL AT TILE BASE
6" = 1'-0"



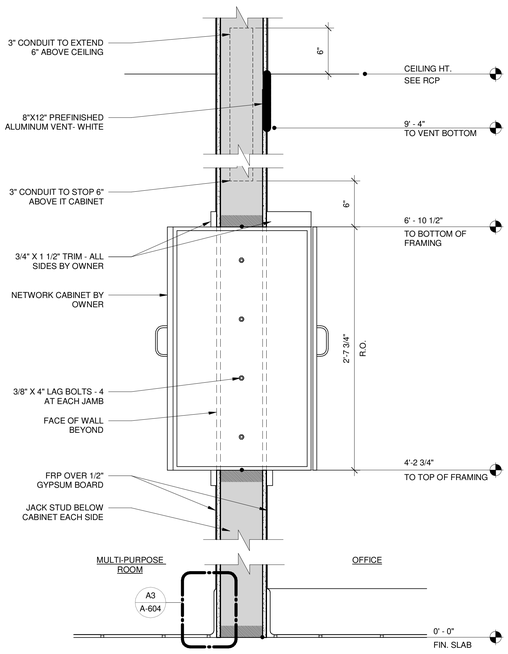
C3 CORNER GUARD
3" = 1'-0"



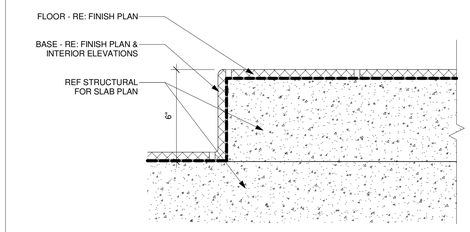
C2 DETAIL AT WALK-IN FREEZER DOOR
3" = 1'-0"



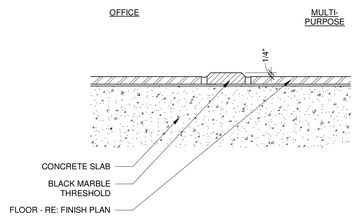
C1 END CAP DETAIL
3" = 1'-0"



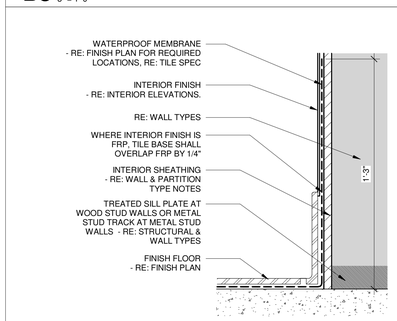
A4 OFFICE IT CABINET
1 1/2" = 1'-0"



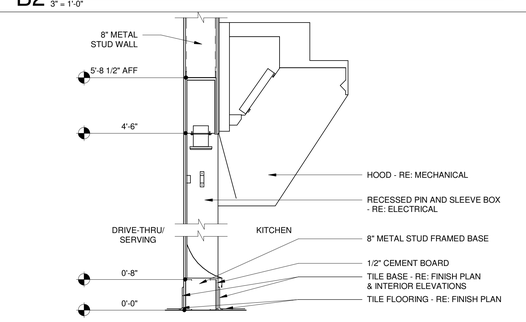
B3 DETAIL AT WATER HEATER CURB
3" = 1'-0"



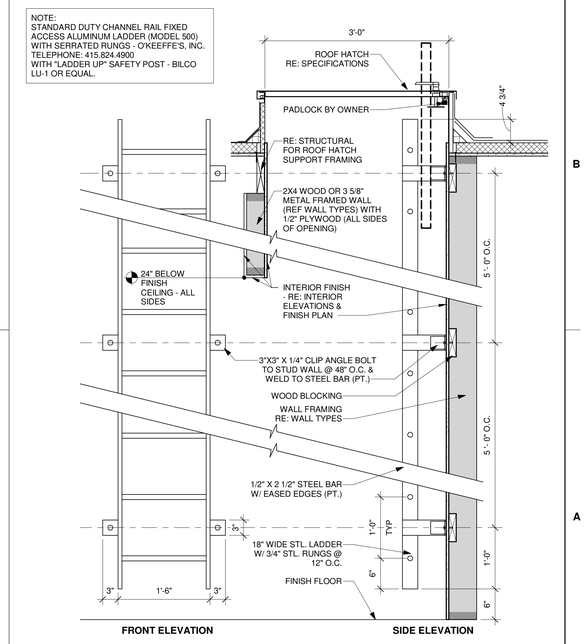
B2 INTERIOR THRESHOLD @ OFFICE DOOR
3" = 1'-0"



A3 WALL BASE DETAIL @ BACK OF HOUSE.
3" = 1'-0"



A2 PIN & SLEEVE SECTION
3/4" = 1'-0"



A1 LADDER DETAILS
1" = 1'-0"

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KEVIN T. EVERNHAM 3199 SCOTTSDALE, AZ
REGISTERED LANDSCAPE ARCHITECT STATE OF MONTANA
11/12/2025

CHICK-FIL-A
CUSTER & WASHINGTON

2770 N WASHINGTON STREET
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FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
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DATE 10/20/2025
DRAWN BY M.M.O./ K.G.

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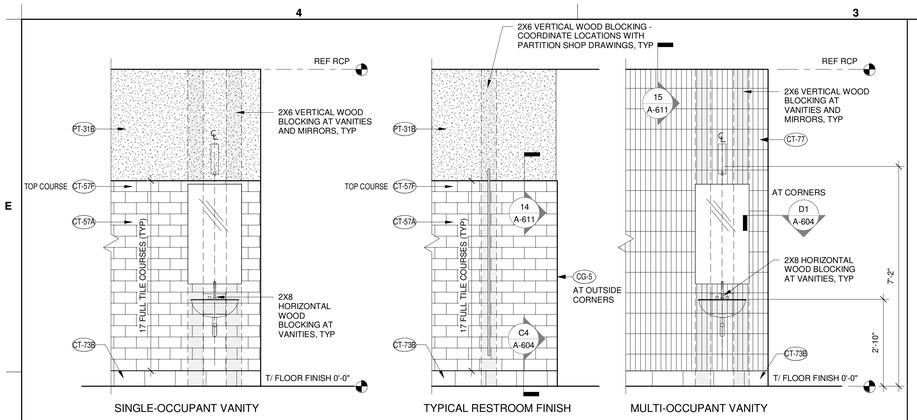
SHEET
KITCHEN AND INTERIOR DETAILS

SHEET NUMBER
A-604

11/12/2025 2:21:03 PM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_ARC.rvt
10-LS-05484-A-604-KITCHEN AND INTERIOR DETAILS



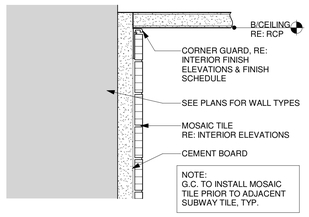
RESTROOM STANDARD ELEVATIONS

GENERAL RESTROOM NOTES

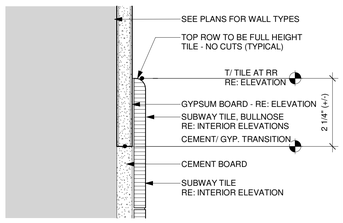
1. ALL UNDER COUNTER PIPING TO BE PROTECTED FROM CONTACT. PROVIDE AND INSTALL INSULATION AT HOT WATER SUPPLY AND DRAIN PIPES. ENSURE THAT ALL OTHER SHARP OR ABRASIVE SURFACES ARE PROPERLY COVERED OR MADE SMOOTH.
2. UREA-FREE PHENOLIC TO MATCH PL-40 (RE: A-211 - FINISH SCHEDULE) AND TO BE FURNISHED AND INSTALLED BY GC. REFERENCE SPECIFICATIONS FOR MORE INFORMATION.
3. CEMENTITIOUS BOARD TO STOP - RE: DETAIL FOR HEIGHT OF TERMINATION OF TILE.
4. BABY CHANGING STATION - VERIFY PULL DOWN HANDLE TO BE 48" MAXIMUM. OPEN TABLE HEIGHT TO BE BETWEEN 28" - 34".
5. COORDINATE PROPER MIRROR AND VANITY BLOCKING LOCATIONS WITH VENDOR SHOP DRAWINGS. TROUGH SINK TO BE PROVIDED BY MILLWORK VENDOR.
6. REFER TO G-002 ACCESSIBILITY SHEET FOR TYP MOUNTING DIMENSIONS AND MFR DRAWINGS FOR BLOCKING LOCATIONS.
7. DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD (UNLESS OTHERWISE NOTED).
8. ALL ADA STALL DOORS TO BE SELF-CLOSING WITH PULLS ON BOTH SIDES. ALL COAT HOOKS ON STALL DOORS TO BE MOUNTED 48" AFF MAX.
9. SEE A-201 FLOOR PLAN FOR LOCATIONS OF HAND SANITIZERS AT PLAY ROOM AS APPLICABLE.

TOILET ACCESSORIES SCHEDULE LP

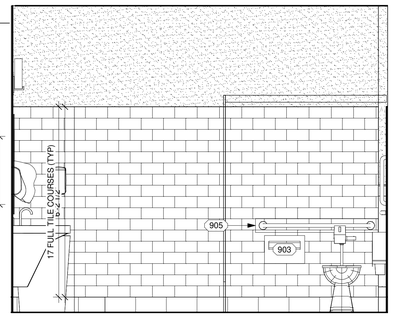
VV	DESCRIPTION	QTY	MANUF'R	FURNISHED BY	INSTALLED BY	MODEL #
202	TRASH RECEPTACLE	2	RUBBERMAID	GENERAL CONTRACTOR	GENERAL CONTRACTOR	RE: K-SHEETS
205	HAND SANITIZER	3	ECO LAB	GENERAL CONTRACTOR	GENERAL CONTRACTOR	92211379
206	SOAP DISPENSER	4	ECO LAB	GENERAL CONTRACTOR	GENERAL CONTRACTOR	92211379
240	BABY CHANGING STATION	2	RUBBERMAID MODEL #FG781888	OWNER	EQUIPMENT INSTALLER	FG781888
660	PAPER TOWEL DISPENSER	2	SAN JAMAR	OWNER	GENERAL CONTRACTOR	T1490TBK
903	TOILET SEAT COVER DISPENSER	5	ASI	GENERAL CONTRACTOR	GENERAL CONTRACTOR	0477-SM
904	SANITARY RECEPTACLE	3	RUBBERMAID	OWNER	GENERAL CONTRACTOR	6140
905	GRAB BAR (HORIZ. & VERT.)	6	ASI	GENERAL CONTRACTOR	GENERAL CONTRACTOR	3801-18, 3801-36, 3801-42
906	MIRROR	4	REF NATIONAL ACCOUNTS SCHEDULE	MANUFACTURER	MANUFACTURER	REHAU MIRROR
910	TOILET PAPER DISPENSER	5	SAN JAMAR	OWNER	GENERAL CONTRACTOR	R3090TBK
911	TOILET PARTITION/URINAL SCREEN	6	REF NATIONAL ACCOUNTS SCHEDULE	GENERAL CONTRACTOR	GENERAL CONTRACTOR	SEE NOTE #2



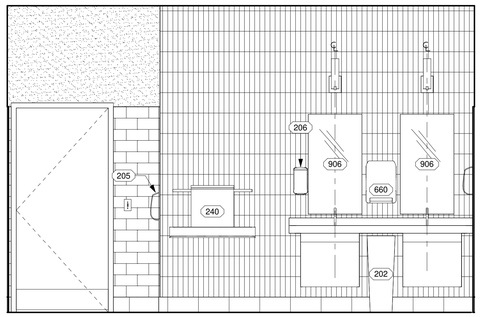
15 TILE TO CEILING TRANSITION AT RESTROOM
6" = 1'-0"



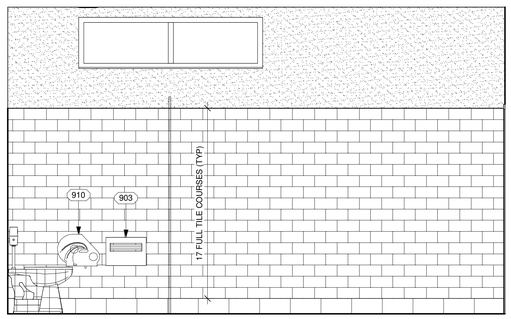
14 TILE TO GYP TRANSITION AT RESTROOM
6" = 1'-0"



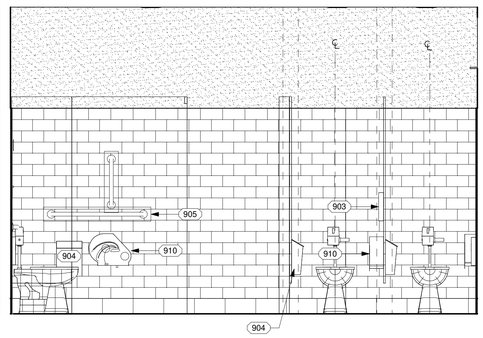
8 ELEVATION - WOMEN'S RESTROOM
1/2" = 1'-0"



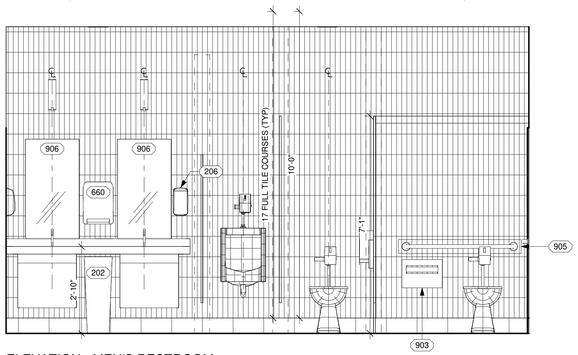
7 ELEVATION - WOMEN'S RESTROOM
1/2" = 1'-0"



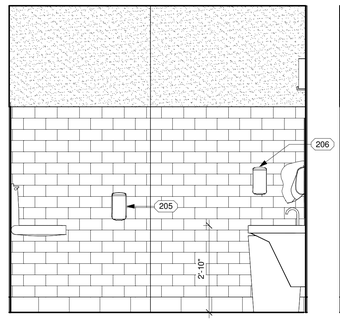
6 ELEVATION - WOMEN'S RESTROOM
1/2" = 1'-0"



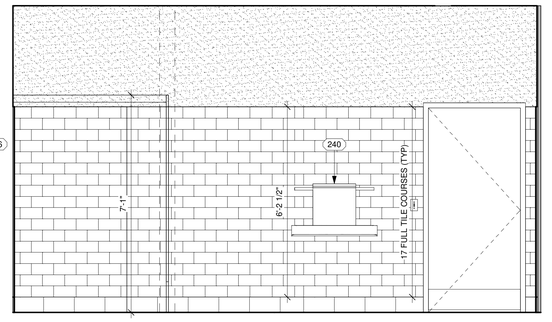
5 ELEVATION - WOMEN'S RESTROOM
1/2" = 1'-0"



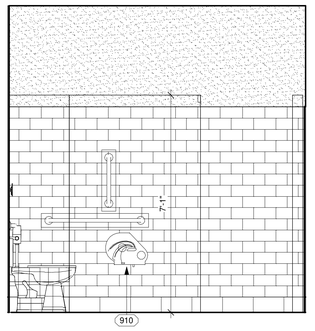
4 ELEVATION - MEN'S RESTROOM
1/2" = 1'-0"



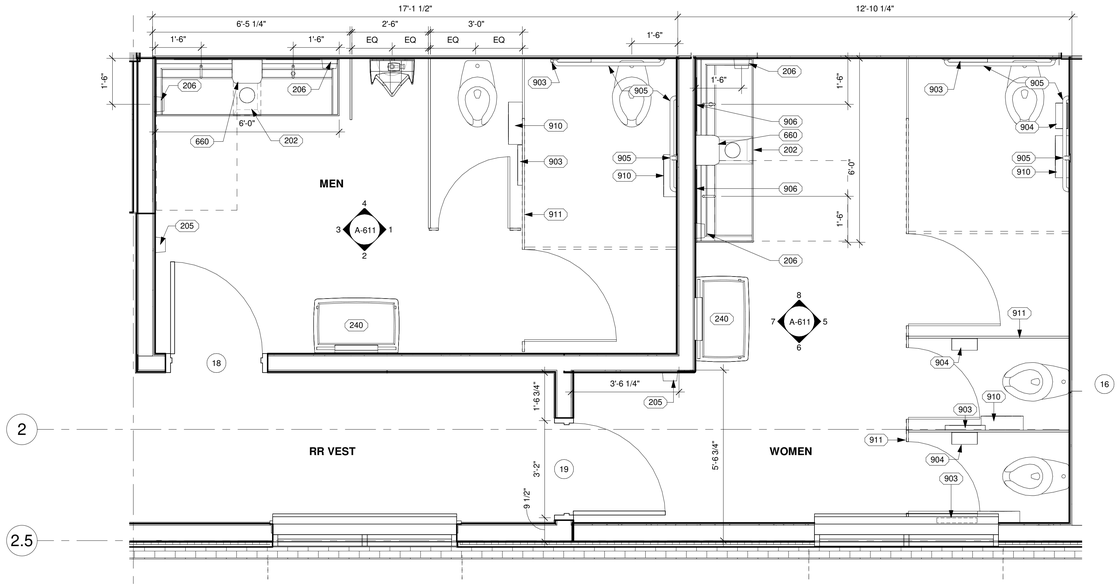
3 ELEVATION - MEN'S RESTROOM
1/2" = 1'-0"



2 ELEVATION - MEN'S RESTROOM
1/2" = 1'-0"



1 ELEVATION - MEN'S RESTROOM
1/2" = 1'-0"



13 ENLARGED RESTROOM PLAN
1/2" = 1'-0"

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

WARE MALCOMB
915 Wilshire Blvd, Suite #2150
Los Angeles, CA 90017
P 310.903.4000
ARCHITECTURE INTERIORS
CIVIL ENGINEERING PLANNING
BUILDING MEASUREMENT

ARCHITECT
KEVIN T. EVERNHAM
3199
SCOTTSDALE, AZ
STATE OF MONTANA
11/12/2025

CHICK-FIL-A
CUSTER & WASHINGTON

2770 N WASHINGTON STREET
HELENA, MONTANA 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
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2	2025-08-22	PLAN CHECK - REV 2

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CONSULTANT PROJECT # LAX22-0129-01
DATE 10/20/2025
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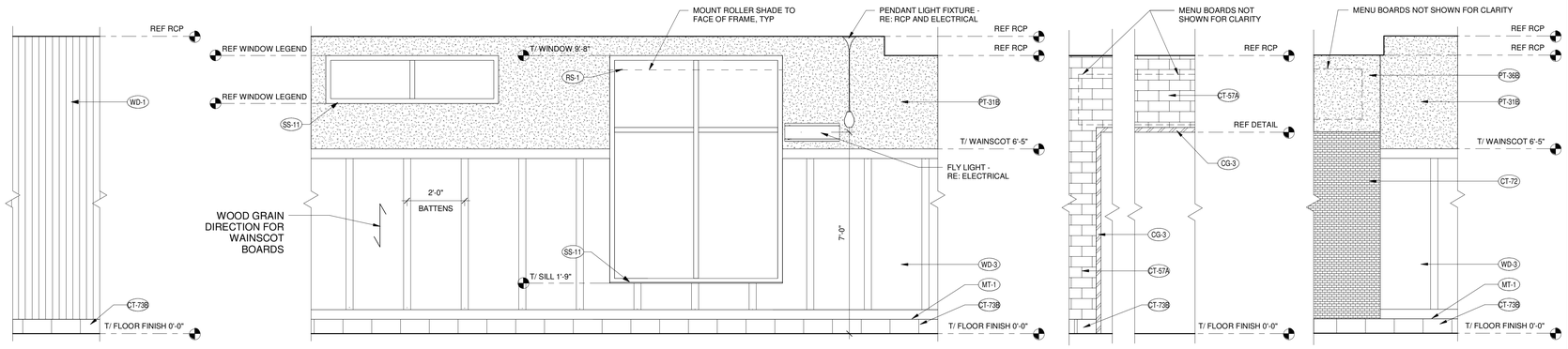
SHEET
RESTROOM PLAN AND ELEVATIONS

SHEET NUMBER
A-611 2

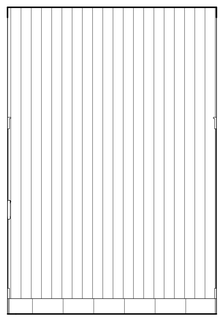
11/12/2025 2:21:13 PM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_ARC.rvt
10-LS-05484-A-611-RESTROOM PLAN AND ELEVATIONS



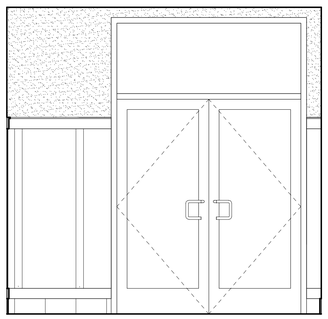
DINING ROOM STANDARD ELEVATIONS

INTERIOR ELEVATION GENERAL NOTES

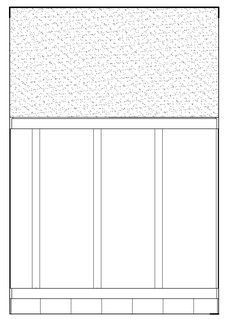
A.1 REFER TO DETAIL E3 / A-625 FOR WAINSCOT DETAILS.
A.2 GC TO PROVIDE BLOCKING FOR ALL WALL SHELVING AND EQUIPMENT. REFER TO K SHEETS FOR LOCATIONS. REFER TO A4 / A-624 FOR MORE DETAIL.
A.3. PROVIDE 5" HIGH CEMENTITIOUS BOARD SUBSTRATE AT BASE OF ALL WALLS IN DINING ROOM AND VESTIBULE.
A.4 PROVIDE 12" HIGH CEMENTITIOUS BOARD SUBSTRATE AT BASE OF ALL WALLS IN KITCHEN.
A.5 PROVIDE CEMENTITIOUS BOARD SUBSTRATE FOR THE FULL HEIGHT OF TILE AT ALL WALLS WITH WALL TILE.
A.6 AT WAINSCOT LOCATIONS, PROVIDE 5" HIGH CEMENTITIOUS BOARD BEHIND TILE BASE, THEN PLYWOOD SUBSTRATE TO TOP OF WAINSCOT, THEN GYPSUM BOARD TO CEILING.
A.7 BRAND ICON DIRECTION: WHEN ENTERING THE STORE FROM THE MAIN ENTRY, THE BEAK SHOULD POINT TO THE RIGHT.
A.8 REFER TO FRN SHEETS FOR SIGNAGE LOCATIONS. REFER TO A4 / A-625 FOR DETAIL.
A.9 REFER TO C3 / A-604 FOR CORNER GUARD DETAIL. REFER TO PLANS AND ELEVATIONS FOR LOCATIONS. REFER TO E3 / A-624 AND E4 / A-624 FOR BRAND ICON DETAILS.



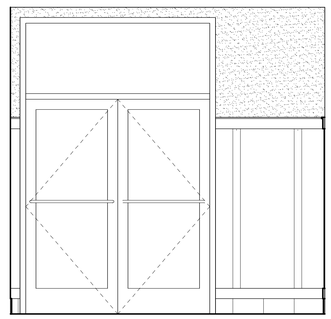
8 INTERIOR ELEVATION - VESTIBULE
1/2" = 1'-0"



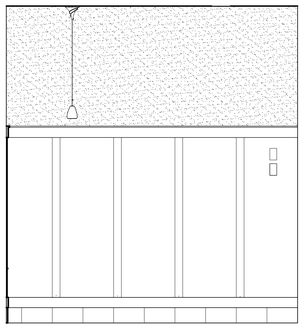
7 INTERIOR ELEVATION - VESTIBULE
1/2" = 1'-0"



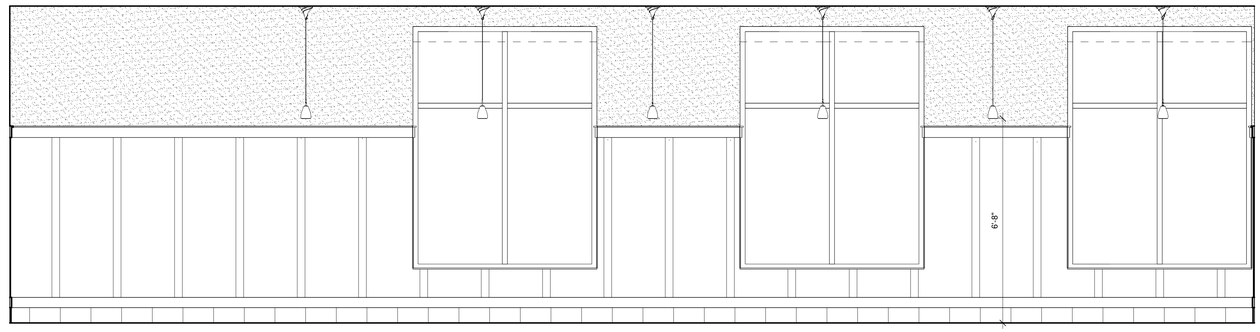
6 INTERIOR ELEVATION - VESTIBULE
1/2" = 1'-0"



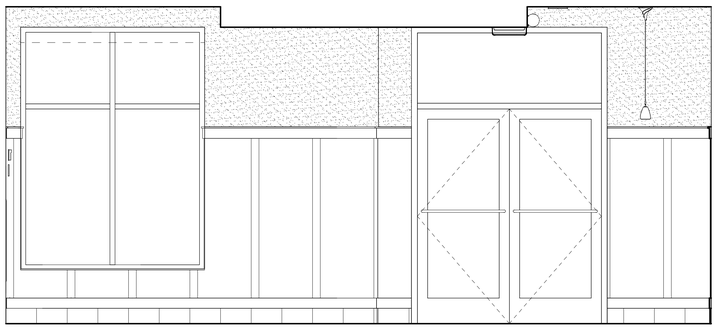
5 INTERIOR ELEVATION - VESTIBULE
1/2" = 1'-0"



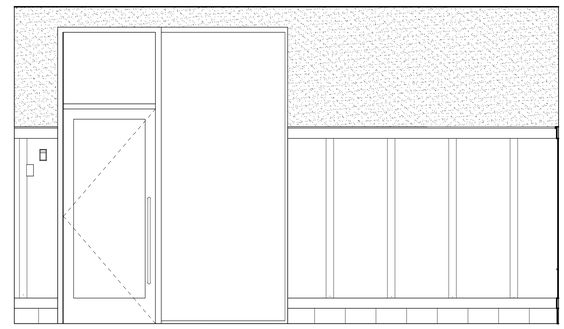
4 INTERIOR ELEVATION - DINING
1/2" = 1'-0"



3 INTERIOR ELEVATION - DINING
1/2" = 1'-0"



2 INTERIOR ELEVATION - DINING
1/2" = 1'-0"



1 INTERIOR ELEVATION - DINING
1/2" = 1'-0"

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30349-2998

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3199
SCOTTSDALE, AZ
REGISTERED ARCHITECT
STATE OF MONTANA
11/12/2025

CHICK-FIL-A
CUSTER & WASHINGTON

2770 N WASHINGTON STREET
HELENA, MONTANA 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
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DATE 10/20/2025
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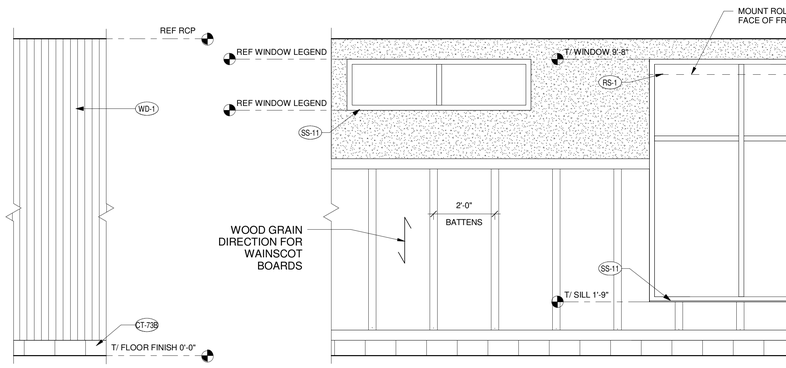
SHEET
DINING ELEVATIONS AND DETAILS

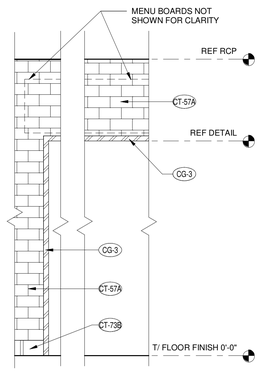
SHEET NUMBER
A-621

11/12/2025 2:21:19 PM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_ARC.rvt
10-LS-05484-A-621-DINING ELEVATIONS AND DETAILS

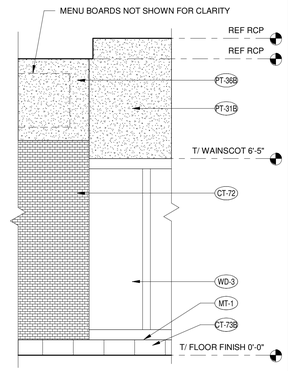


WOOD ACCENT

DINING ROOM / VESTIBULE



SERVING COUNTER - MENU BOARDS OVERHEAD



SERVING COUNTER - MENU BOARDS AT WALL

DINING ROOM STANDARD ELEVATIONS

INTERIOR ELEVATION GENERAL NOTES

A.1 REFER TO DETAIL E3 / A-625 FOR WAINSCOT DETAILS.
A.2 GC TO PROVIDE BLOCKING FOR ALL WALL SHELVING AND EQUIPMENT. REFER TO K SHEETS FOR LOCATIONS. REFER TO A4 / A-624 FOR MORE DETAIL.
A.3. PROVIDE 5" HIGH CEMENTITIOUS BOARD SUBSTRATE AT BASE OF ALL WALLS IN DINING ROOM AND VESTIBULE.
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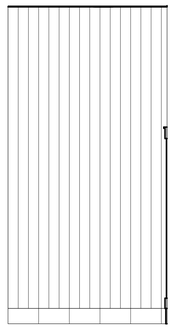
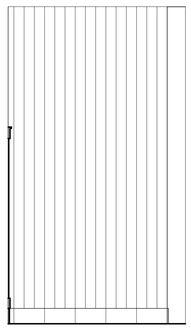
A.7 BRAND ICON DIRECTION: WHEN ENTERING THE STORE FROM THE MAIN ENTRY, THE BEAK SHOULD POINT TO THE RIGHT.
A.8 REFER TO FRN SHEETS FOR SIGNAGE LOCATIONS. REFER TO A4 / A-625 FOR DETAIL.
A.9 REFER TO C3 / A-604 FOR CORNER GUARD DETAIL. REFER TO PLANS AND ELEVATIONS FOR LOCATIONS. REFER TO E3 / A-624 AND E4 / A-624 FOR BRAND ICON DETAILS.

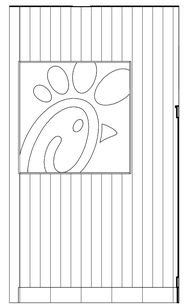


8 INTERIOR ELEVATION - BRAND ICON
1/2" = 1'-0"

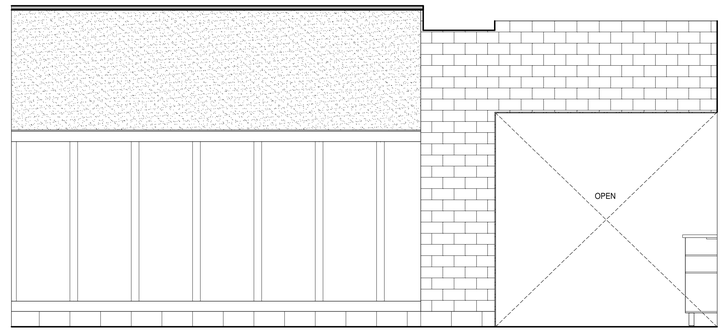


7 INTERIOR ELEVATION - BRAND ICON
1/2" = 1'-0"

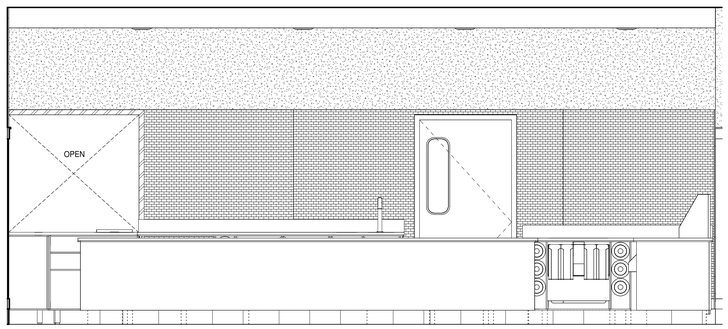
6 INTERIOR ELEVATION - BRAND ICON
1/2" = 1'-0"



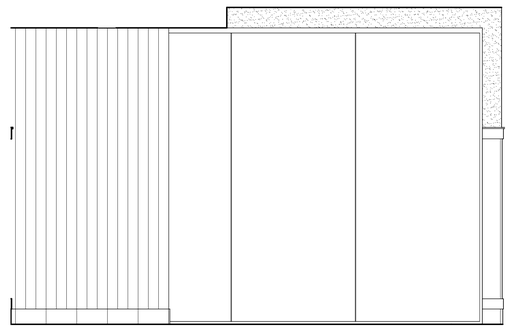
5 INTERIOR ELEVATION - BRAND ICON
1/2" = 1'-0"



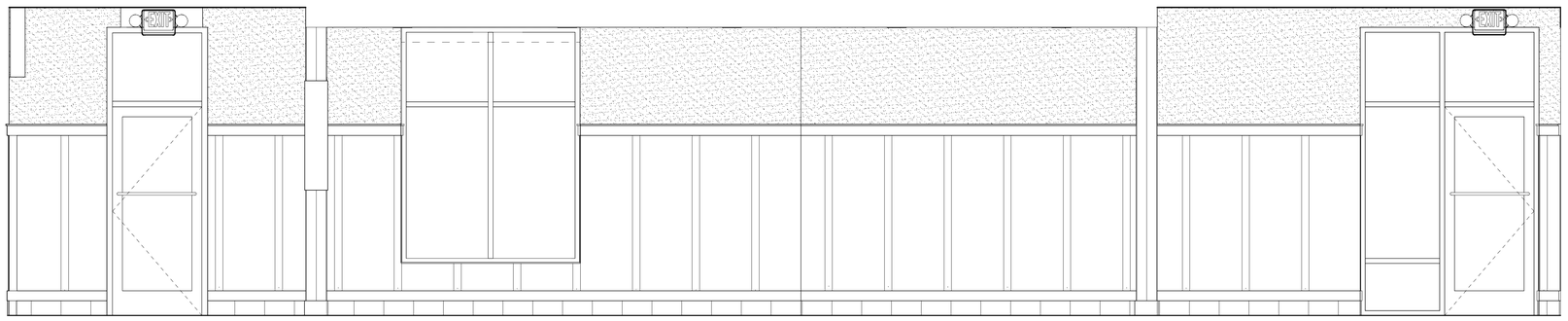
4 INTERIOR ELEVATION - SERVING
1/2" = 1'-0"



3 INTERIOR ELEVATION - SERVING
1/2" = 1'-0"



2 INTERIOR ELEVATION - SERVING
1/2" = 1'-0"



1 INTERIOR ELEVATION - BRAND ICON
1/2" = 1'-0"

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ARCHITECT
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3199
SCOTTSDALE, AZ
STATE OF MONTANA
11/12/2025

CHICK-FIL-A
CUSTER & WASHINGTON

2770 N WASHINGTON STREET
HELENA, MONTANA 59602

FSR#05484

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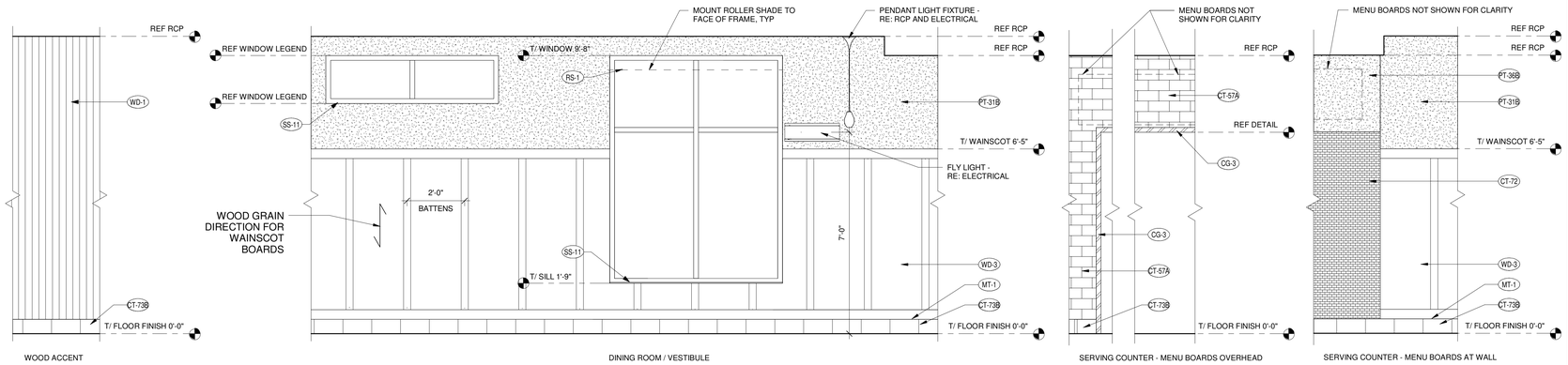
SHEET
DINING ELEVATIONS AND DETAILS

SHEET NUMBER
A-622

11/12/2025 2:21:24 PM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR05484_Custer & Washington FSU_ARC.rvt
10-LS-05484-A-622-DINING ELEVATIONS AND DETAILS

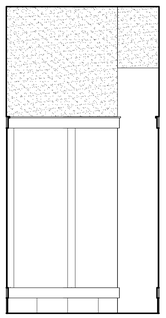


WOOD ACCENT | DINING ROOM / VESTIBULE | SERVING COUNTER - MENU BOARDS OVERHEAD | SERVING COUNTER - MENU BOARDS AT WALL

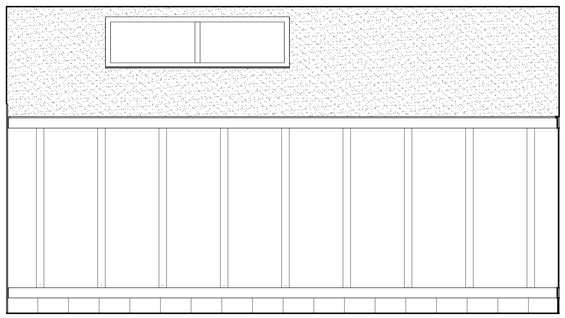
DINING ROOM STANDARD ELEVATIONS

INTERIOR ELEVATION GENERAL NOTES

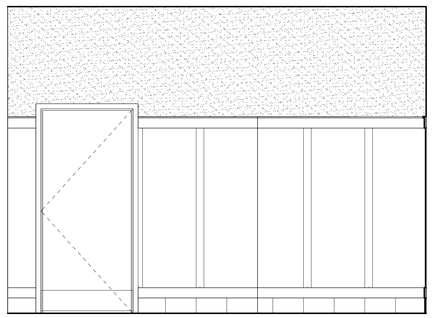
A.1 REFER TO DETAIL E3 / A-625 FOR WAINSCOT DETAILS.
A.2 GC TO PROVIDE BLOCKING FOR ALL WALL SHELVING AND EQUIPMENT. REFER TO K SHEETS FOR LOCATIONS. REFER TO A4 / A-624 FOR MORE DETAIL.
A.3. PROVIDE 5" HIGH CEMENTITIOUS BOARD SUBSTRATE AT BASE OF ALL WALLS IN DINING ROOM AND VESTIBULE.
A.4 PROVIDE 12" HIGH CEMENTITIOUS BOARD SUBSTRATE AT BASE OF ALL WALLS IN KITCHEN.
A.5 PROVIDE CEMENTITIOUS BOARD SUBSTRATE FOR THE FULL HEIGHT OF TILE AT ALL WALLS WITH WALL TILE.
A.6 AT WAINSCOT LOCATIONS, PROVIDE 5" HIGH CEMENTITIOUS BOARD BEHIND TILE BASE. THEN PLYWOOD SUBSTRATE TO TOP OF WAINSCOT, THEN GYPSUM BOARD TO CEILING.
A.7 BRAND ICON DIRECTION: WHEN ENTERING THE STORE FROM THE MAIN ENTRY, THE BEAK SHOULD POINT TO THE RIGHT.
A.8 REFER TO FRN SHEETS FOR SIGNAGE LOCATIONS. REFER TO A4 / A-625FOR DETAIL.
A.9 REFER TO C3 / A-604 FOR CORNER GUARD DETAIL, REFER TO PLANS AND ELEVATIONS FOR LOCATIONS. REFER TO E3 / A-624 AND E4 / A-624 FOR BRAND ICON DETAILS.



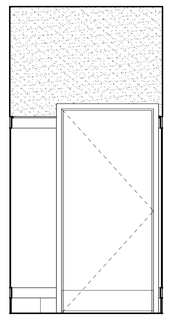
4 INTERIOR ELEVATION -RESTROOM VESTIBULE
1/2" = 1'-0"



3 INTERIOR ELEVATION -RESTROOM VESTIBULE
1/2" = 1'-0"



2 INTERIOR ELEVATION -RESTROOM VESTIBULE
1/2" = 1'-0"



1 INTERIOR ELEVATION -RESTROOM VESTIBULE
1/2" = 1'-0"

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ARCHITECT
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DATE 10/20/2025
DRAWN BY M.M.O./K.G.

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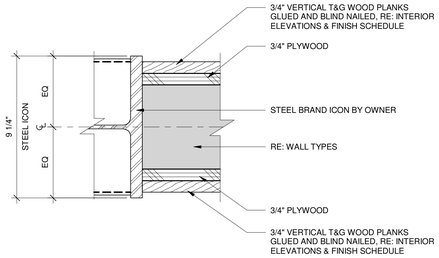
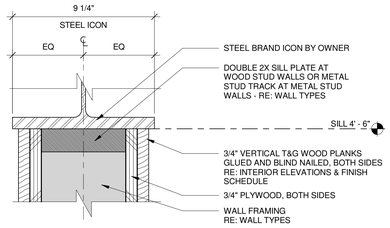
SHEET
DINING ELEVATIONS AND DETAILS

SHEET NUMBER
A-623

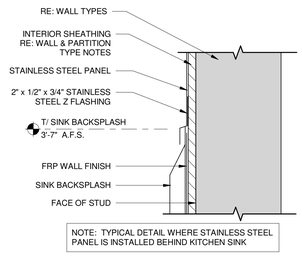
11/12/2025 2:21:27 PM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_ARC.rvt
LS-05484-A-623-DINING ELEVATIONS AND DETAILS



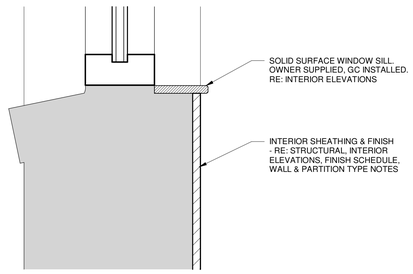
E4 BRAND ICON TWO-SIDED JAMB AT WOOD FINISH
3" = 1'-0"



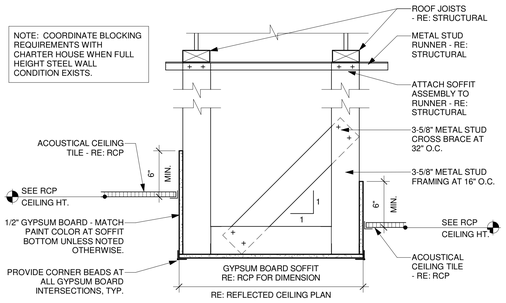
E3 BRAND ICON TWO-SIDED SILL AT WOOD FINISH
3" = 1'-0"



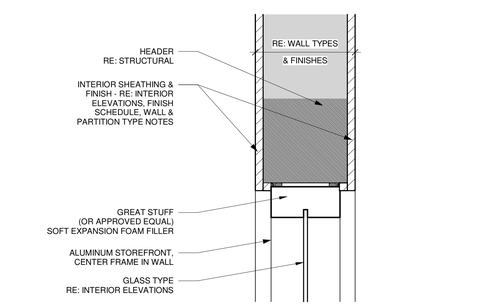
D4 Z FLASHING DETAIL
3" = 1'-0"



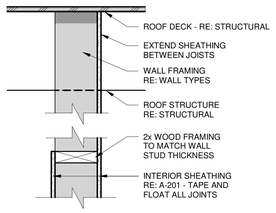
D3 TYP WINDOW SILL DETAIL
3" = 1'-0"



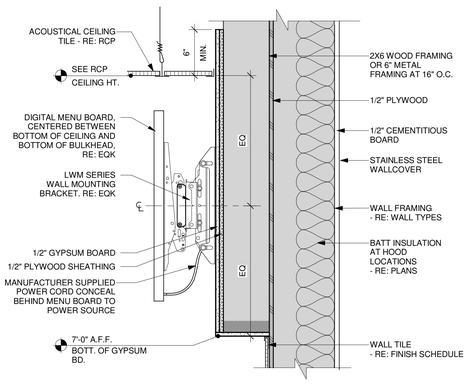
C4 TYP DINING SOFFIT
1 1/2" = 1'-0"



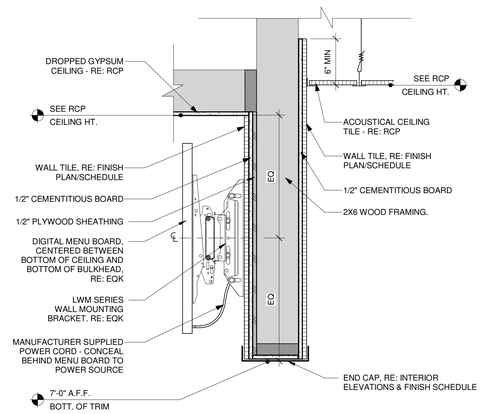
C3 TYP INTERIOR STOREFRONT HEAD
3" = 1'-0"



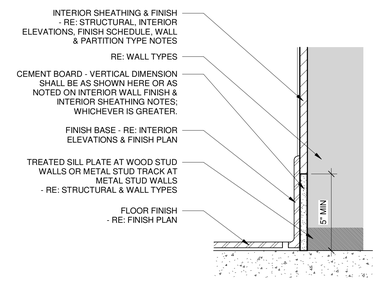
B4 DRAFTSTOPPING DETAIL
1 1/2" = 1'-0"



A3 MENU BOARD DETAIL - AT WALL
1 1/2" = 1'-0"

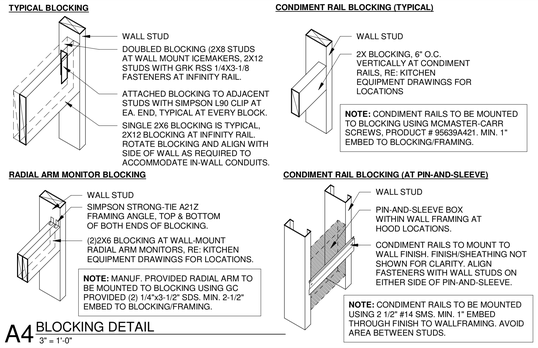


A2 MENU BOARD DETAIL - OVERHEAD
1 1/2" = 1'-0"



NOTE: TYPICAL AT ALL CUSTOMER ACCESSIBLE AREAS EXCEPT PLAY AREA.

A1 WALL BASE DETAIL
3" = 1'-0"



A4 BLOCKING DETAIL
3" = 1'-0"

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Atlanta, Georgia
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915 Wilshire Blvd, Suite #2150
Los Angeles, CA 90017
P 310.993.4000
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PLANNING
INTERIORS
CIVIL ENGINEERING
LANDSCAPE
BUILDING MEASUREMENT

ARCHITECT
KEVIN T. EVERNHAM
3199
SCOTTSDALE, AZ
STATE OF MONTANA
11/12/2025

CHICK-FIL-A
CUSTER & WASHINGTON

2770 N WASHINGTON STREET
HELENA, MONTANA 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
PRINTED FOR
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION

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CONSULTANT PROJECT # LAX22-0129-01
DATE 10/20/2025
DRAWN BY M.M.O./ K.G.

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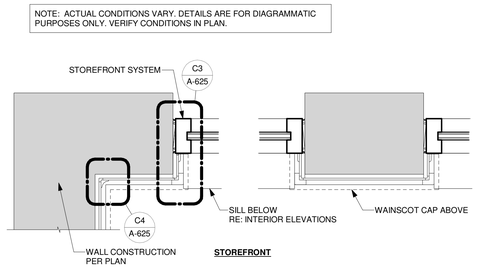
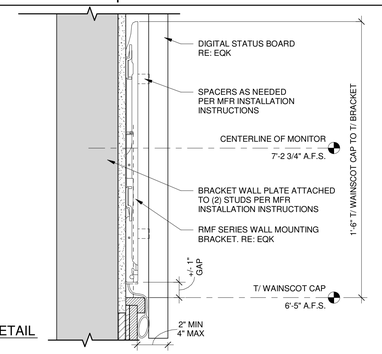
SHEET
DINING ELEVATIONS AND DETAILS

SHEET NUMBER
A-624

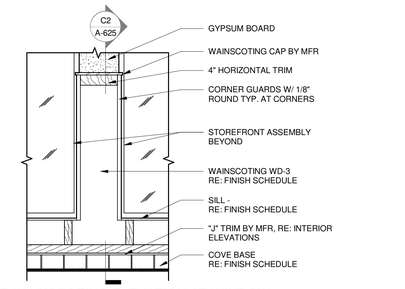
11/12/2025 2:21:29 PM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR05484_Custer & Washington FSU_ARC.rvt
10-LS-05484-A-624-DINING ELEVATIONS AND DETAILS



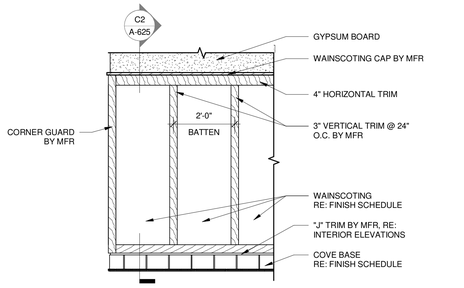
E3 WAINSCOTING PLAN DIAGRAM (FOR SCHEMATIC ONLY)
1 1/2" = 1'-0"



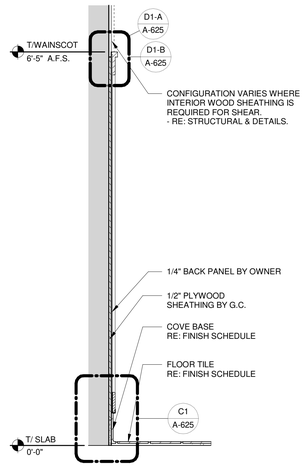
E1 STATUS BOARD DETAIL
3" = 1'-0"



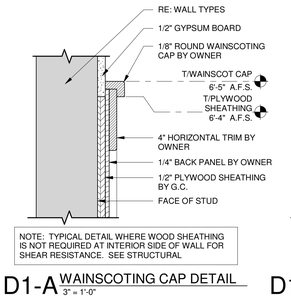
D4 TYP WAINSCOTING ELEVATION AT WINDOW
1/2" = 1'-0"



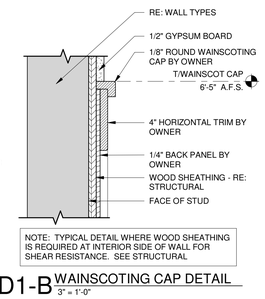
D3 TYP WAINSCOTING ELEVATION
1/2" = 1'-0"



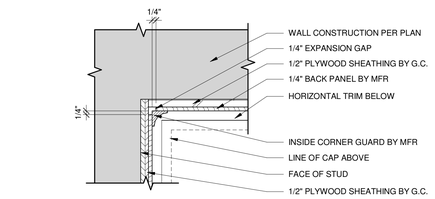
C2 WALL SECTION AT WAINSCOTING
1" = 1'-0"



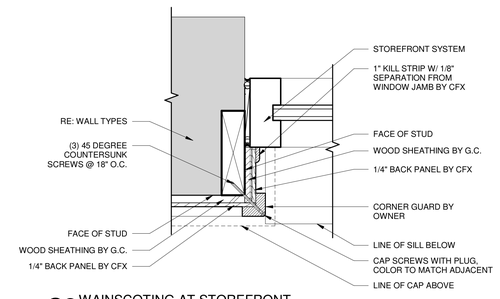
D1-A WAINSCOTING CAP DETAIL
3" = 1'-0"



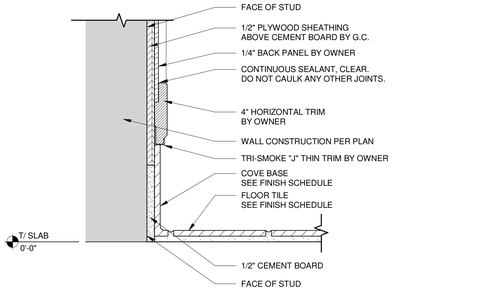
D1-B WAINSCOTING CAP DETAIL
3" = 1'-0"



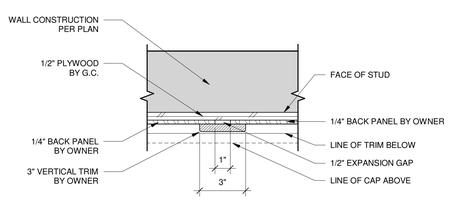
C4 WAINSCOTING INSIDE CORNER DETAIL
3" = 1'-0"



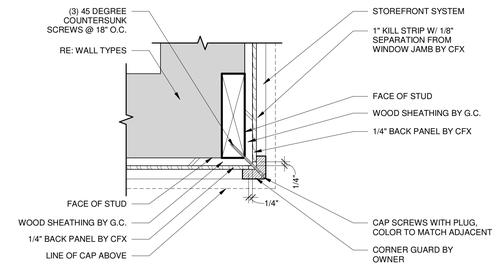
C3 WAINSCOTING AT STOREFRONT
3" = 1'-0"



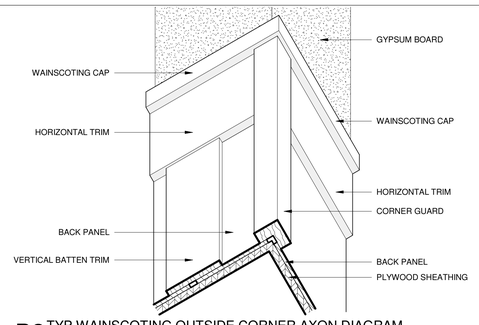
C1 WAINSCOTING BASE DETAIL
3" = 1'-0"



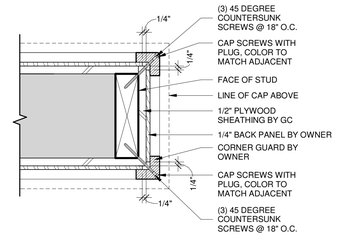
B4 WAINSCOTING TRIM DETAIL
3" = 1'-0"



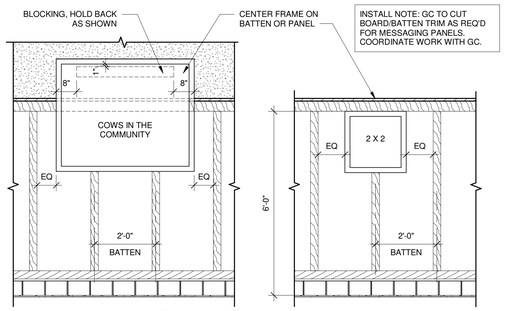
B3 WAINSCOTING OUTSIDE CORNER DETAIL
3" = 1'-0"



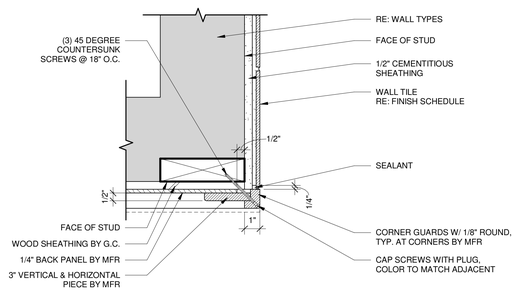
B2 TYP WAINSCOTING OUTSIDE CORNER AXON DIAGRAM
3" = 1'-0"



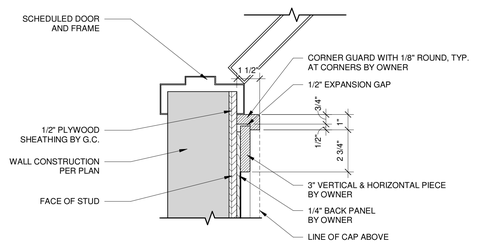
B1 WAINSCOTING OUTSIDE CORNER DETAIL
3" = 1'-0"



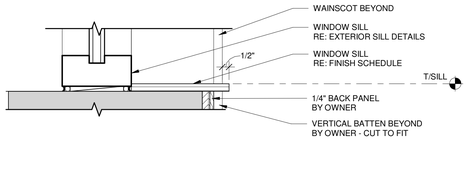
A4 WAINSCOTING ELEVATION AT SIGNAGE
1/2" = 1'-0"



A3 WAINSCOTING TO TILE CORNER
3" = 1'-0"



A2 WAINSCOTING AT DOOR JAMB
3" = 1'-0"



A1 WAINSCOTING AT WINDOW SILL
3" = 1'-0"

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

WARE MALCOMB
ARCHITECTURE PLANNING INTERIORS
CIVIL ENGINEERING SURVEYING
BUILDING MEASUREMENT
915 Wilshire Blvd, Suite #2150
Los Angeles, CA 90017
P 310.963.4000

ARCHITECT
KEVIN T. EVERNHAM
3199
SCOTTSDALE, AZ
STATE OF MONTANA
11/12/2025

CHICK-FIL-A
CUSTER & WASHINGTON
2770 N WASHINGTON STREET
HELENA, MONTANA 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION

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DATE 10/20/2025
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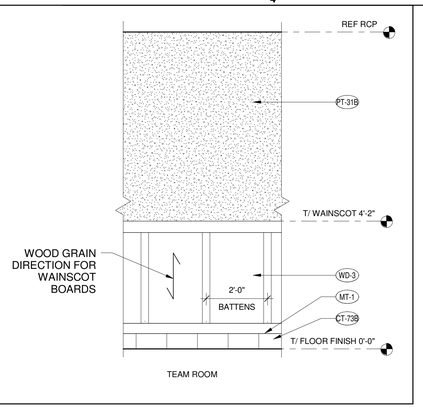
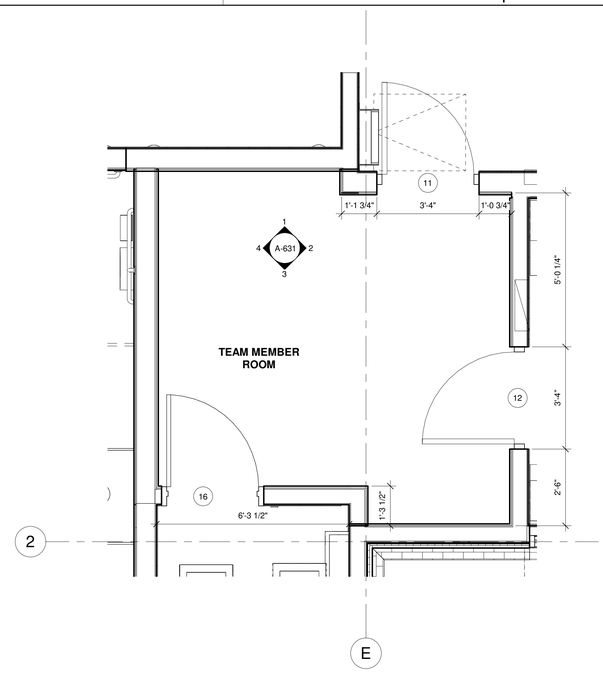
SHEET
DINING ELEVATIONS AND DETAILS

SHEET NUMBER
A-625

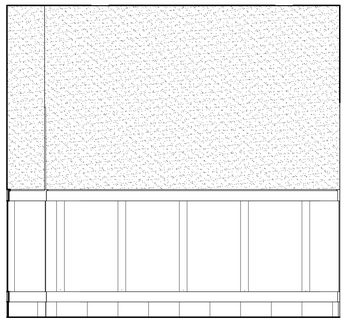
11/12/2025 2:21:31 PM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_ARC.rvt
10-LS-05484-A-625-DINING ELEVATIONS AND DETAILS



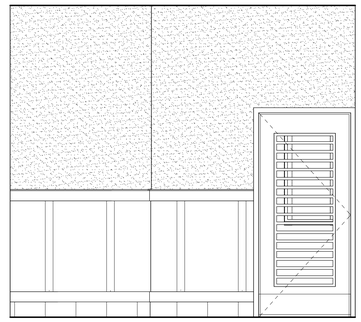
TEAM ROOM STANDARD ELEVATIONS
1/2" = 1'-0"



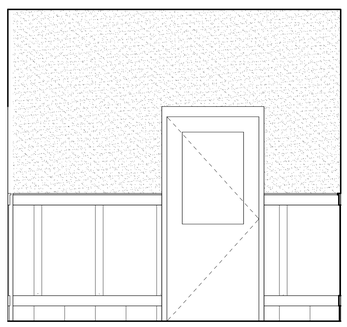
5 TEAM ROOM FLOOR PLAN
1/2" = 1'-0"



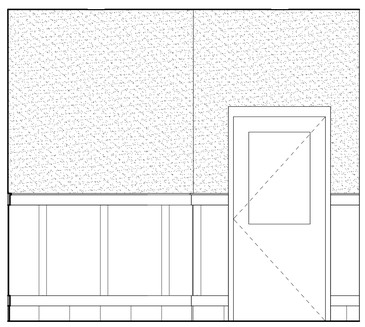
4 INTERIOR ELEVATION - TEAM MEMBER ROOM
1/2" = 1'-0"



3 INTERIOR ELEVATION - TEAM MEMBER ROOM
1/2" = 1'-0"



2 INTERIOR ELEVATION - TEAM MEMBER ROOM
1/2" = 1'-0"



1 INTERIOR ELEVATION - TEAM MEMBER ROOM
1/2" = 1'-0"

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5200 Buffington Road
Atlanta, Georgia
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KEVIN T. EVERNHAM 3199 SCOTTSDALE, AZ
REGISTERED ARCHITECT STATE OF MONTANA
11/12/2025

CHICK-FIL-A
CUSTER & WASHINGTON

2770 N WASHINGTON STREET
HELENA, MONTANA 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
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REVISION SCHEDULE

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CONSULTANT PROJECT # LAX22-0129-01
DATE 10/20/2025
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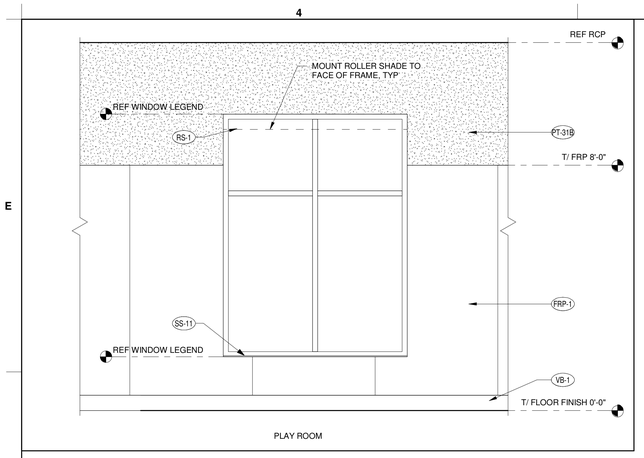
SHEET
TEAM AREA PLAN AND ELEVATIONS

SHEET NUMBER
A-631 2

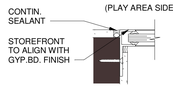
11/12/2025 2:21:34 PM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_ARC.rvt
10-LS-05484-A-631-TEAM AREA PLAN AND ELEVATIONS



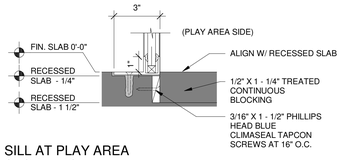
PLAY ROOM STANDARD ELEVATIONS
1/2" = 1'-0"

GENERAL PLAY ROOM NOTES

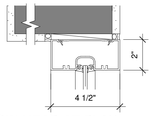
1. SEE A-201 FLOOR PLAN FOR LOCATIONS OF HAND SANITIZERS AT PLAY ROOM AS APPLICABLE



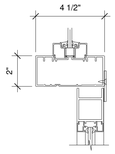
12 JAMB AT PLAY AREA STOREFRONT
3" = 1'-0"



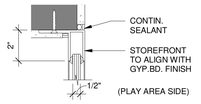
9 SILL AT PLAY AREA STOREFRONT
3" = 1'-0"



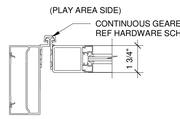
15 WINDOW HEAD AT PLAY AREA TRANSOM
3" = 1'-0"



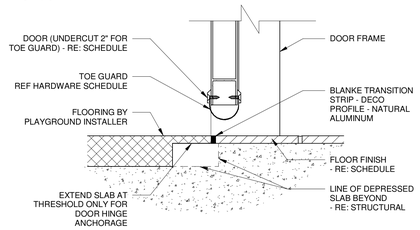
11 DOOR HEAD AT PLAY AREA TRANSOM
3" = 1'-0"



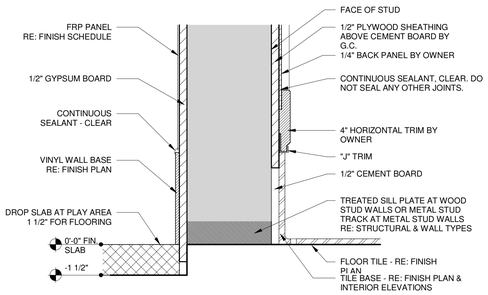
8 HEAD AT PLAY AREA STOREFRONT
3" = 1'-0"



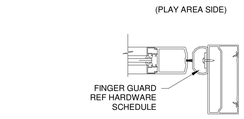
14 DOOR JAMB AT PLAY AREA (HINGE SIDE)
3" = 1'-0"



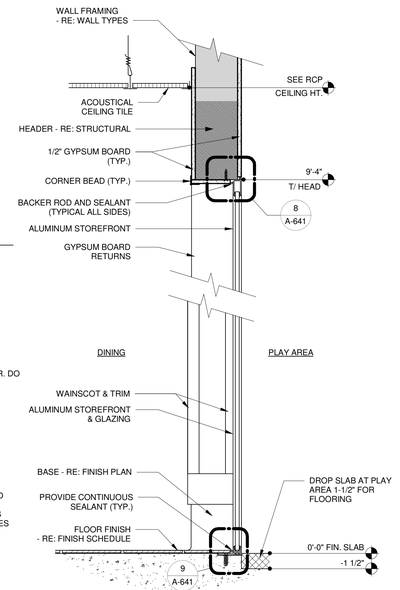
10 DOOR TRANSITION AT PLAY AREA
3" = 1'-0"



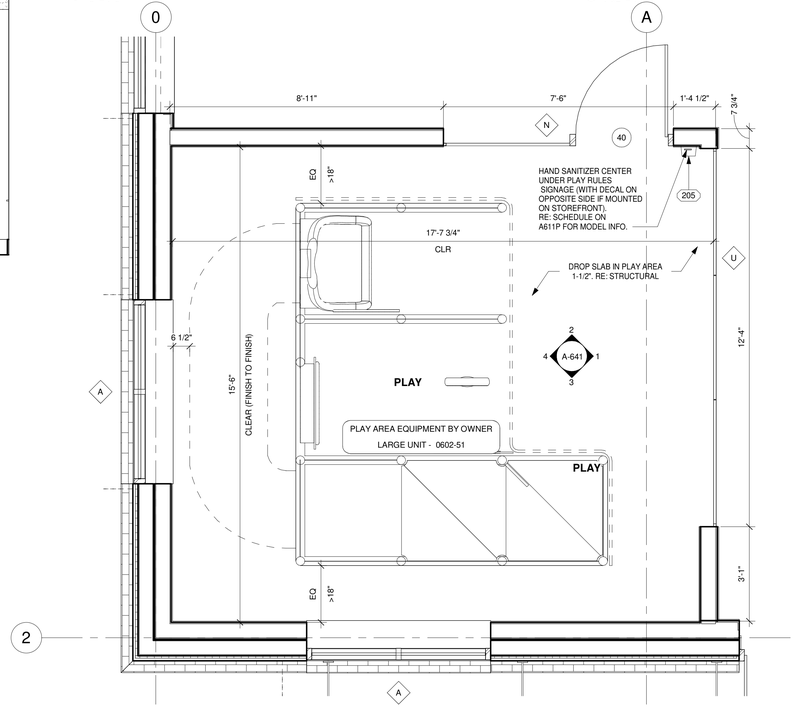
7 WALL BASE AT PLAY AREA
3" = 1'-0"

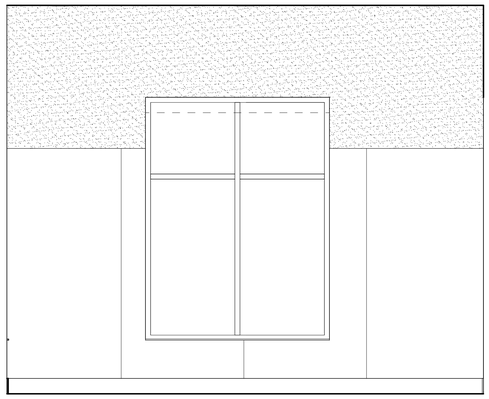


13 DOOR JAMB AT PLAY AREA (LATCH SIDE)
3" = 1'-0"

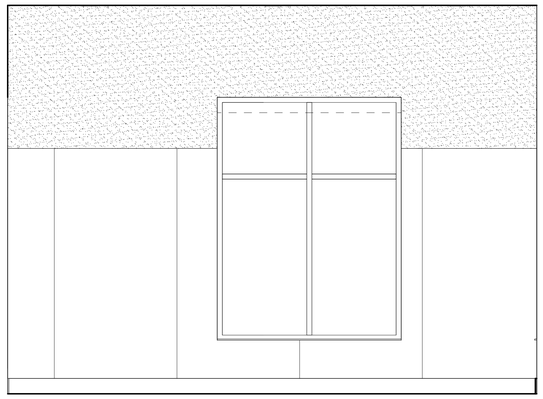


6 SECTION AT PLAY AREA & DINING WALL
1 1/2" = 1'-0"

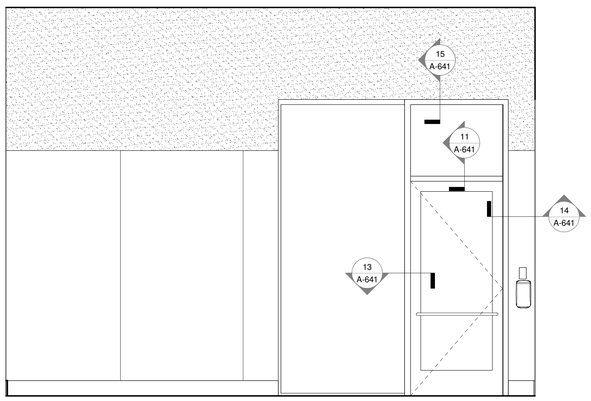




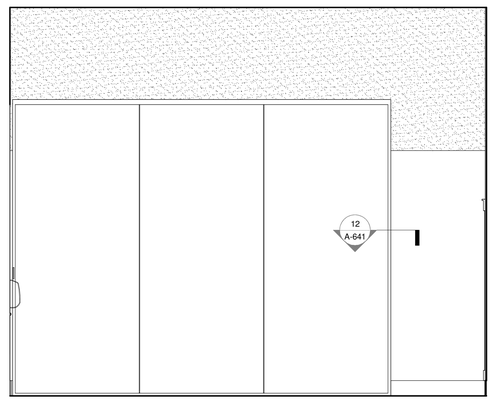
4 PLAY ELEVATION
1/2" = 1'-0"



3 PLAY ELEVATION
1/2" = 1'-0"



2 PLAY ELEVATION
1/2" = 1'-0"



1 PLAY ELEVATION
1/2" = 1'-0"

5 PLAY AREA FLOOR PLAN
1/2" = 1'-0"

FINISH SCHEDULE - PLAY ROOM							
MARK	DESCRIPTION	MANUFACTURER	MODEL NAME	MODEL NUMBER	COLOR	SIZE	NOTE
02_FLOOR FINISHES							
FL-4	PLAYGROUND FLOORING	PROJECT INNOVATIONS INC	ULTIMATE PLAYPAD SAFETY SURFACING		STARRY NIGHT	2" THICK	
04_WALL BASE FINISHES							
VB-1	VINYL WALL BASE @ PLAYGROUND	JOHNSONITE	TRADITIONAL COVE BASE		CB-40, BLACK	6" H	
04_WALL FINISHES							
CG-1	OUTSIDE CORNER GUARD AT PLAYGROUND (FULL HEIGHT, TYPICAL)	KOROSEAL	EXTRUDED CORNER GUARDS	G-815	OYSTER	.078 THICK x 1 1/2" x 1 1/2" x 96" H	
CG-2	INSIDE CORNER GUARD AT PLAYGROUND	KOROSEAL	THERMOFORMED CORNER GUARDS WITH SQUARE EDGE PROFILE	F-410	OYSTER	.40" THICK X 1" X 1" X 96"H	
FRP-1	FRP WALL PANELS @ PLAYGROUND	KOROSEAL	FRP RIGID VINYL SHEET	W202	OYSTER	.040" THICK X 4 X 8 PANELS	8'-0" A.F.F MAX HEIGHT

FINISH PLAN LEGEND:

FLOORING BY PLAYGROUND INSTALLER FL-1

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

WARE MALCOMB
ARCHITECTURE PLANNING INTERIORS
CIVIL ENGINEERING LANDSCAPE ARCHITECTURE BUILDING MEASUREMENT
915 Wilshire Blvd, Suite #2150 Los Angeles, CA 90017 P 310.903.4000

KEVIN T. EVERNHAM 3199 SCOTTSDALE, AZ
STATE OF MONTANA
REGISTERED ARCHITECT
11/12/2025

CHICK-FIL-A
CUSTER & WASHINGTON

2770 N WASHINGTON STREET
HELENA, MONTANA 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
PRINTED FOR
PERMIT RESUBMITTAL

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

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THIS SET OF APPROVED PLANS TO BE ON JOB SITE AT ALL TIMES

CONSULTANT PROJECT # LAX22-0129-01
DATE 10/20/2025
DRAWN BY M.M.O. / K.G.

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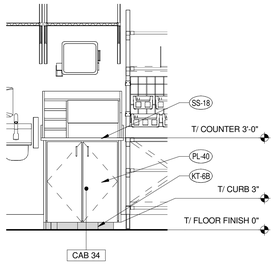
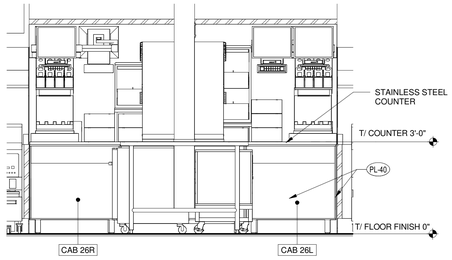
SHEET
PLAY ROOM PLAN AND ELEVATIONS

SHEET NUMBER
A-641

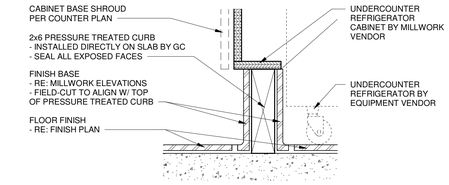
11/12/2025 2:21:40 PM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_ARC.rvt
10-LS-05484-A-641-PLAY ROOM PLAN AND ELEVATIONS



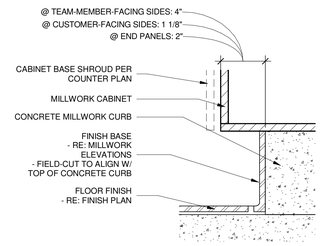
E4 MILLWORK ELEVATION
1/2" = 1'-0"



E3 MILLWORK ELEVATION
1/2" = 1'-0"



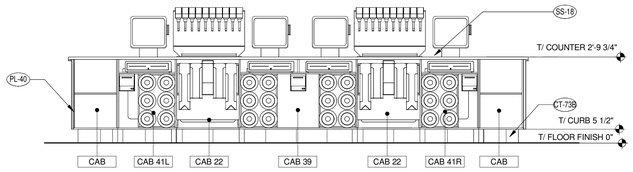
E2 REFRIGERATOR CABINET CURB DETAIL
3" = 1'-0"



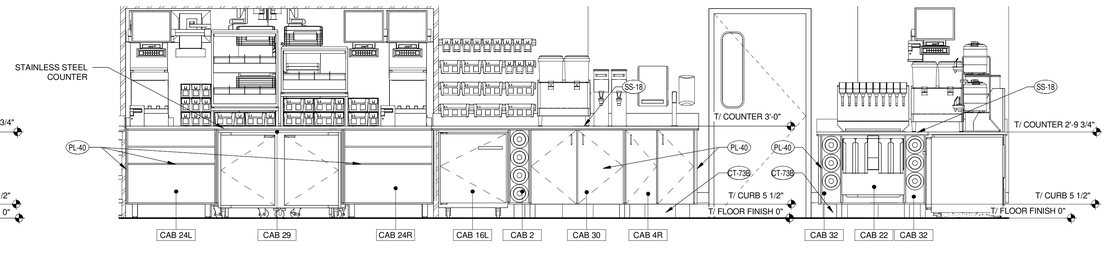
E1 TYP CURB DETAIL
3" = 1'-0"

MILLWORK GENERAL NOTE

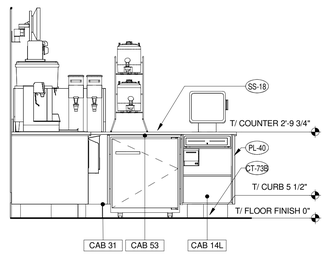
A.1 GC TO CONFIRM ALL INFORMATION ON THIS SHEET W/ MILLWORK VENDOR SHOP DRAWINGS.
A.2 REFER TO PLUMBING, ELECTRICAL, AND KITCHEN DRAWINGS FOR ROUGH-IN, RECEPTACLE, AND EQUIPMENT INFORMATION
A.3 SEAL ALL COUNTER/CABINET EDGES THAT ALIGN AGAINST ADJACENT WALLS
A.4 ALL SIDE AND BACK SPLASHES TO BE INTEGRAL



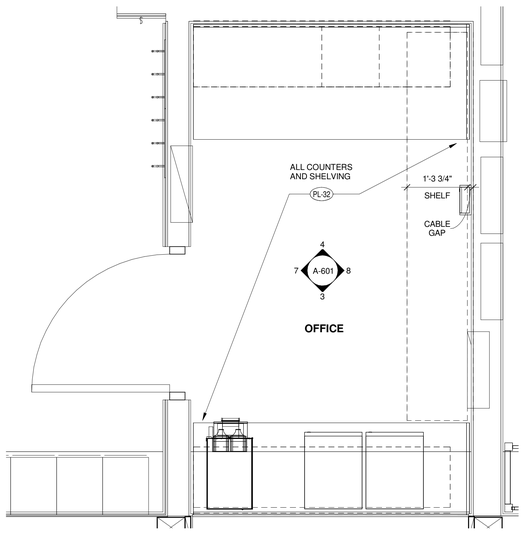
D4 MILLWORK ELEVATION
1/2" = 1'-0"



D3 MILLWORK ELEVATION
1/2" = 1'-0"



D2 MILLWORK ELEVATION
1/2" = 1'-0"

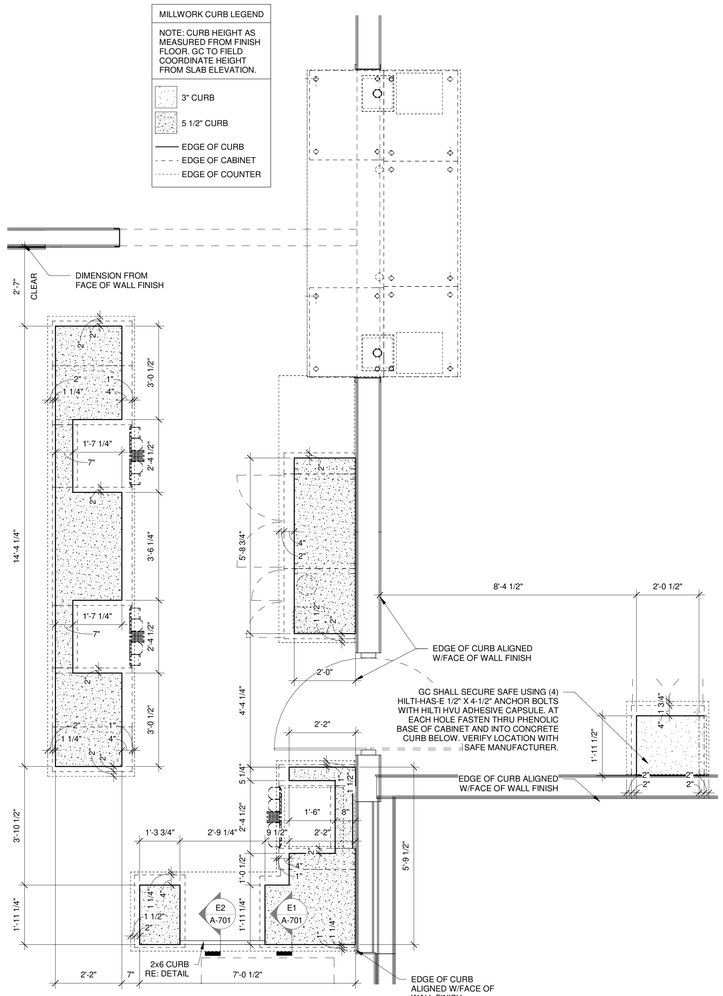


A4 OFFICE MILLWORK PLAN
3/4" = 1'-0"

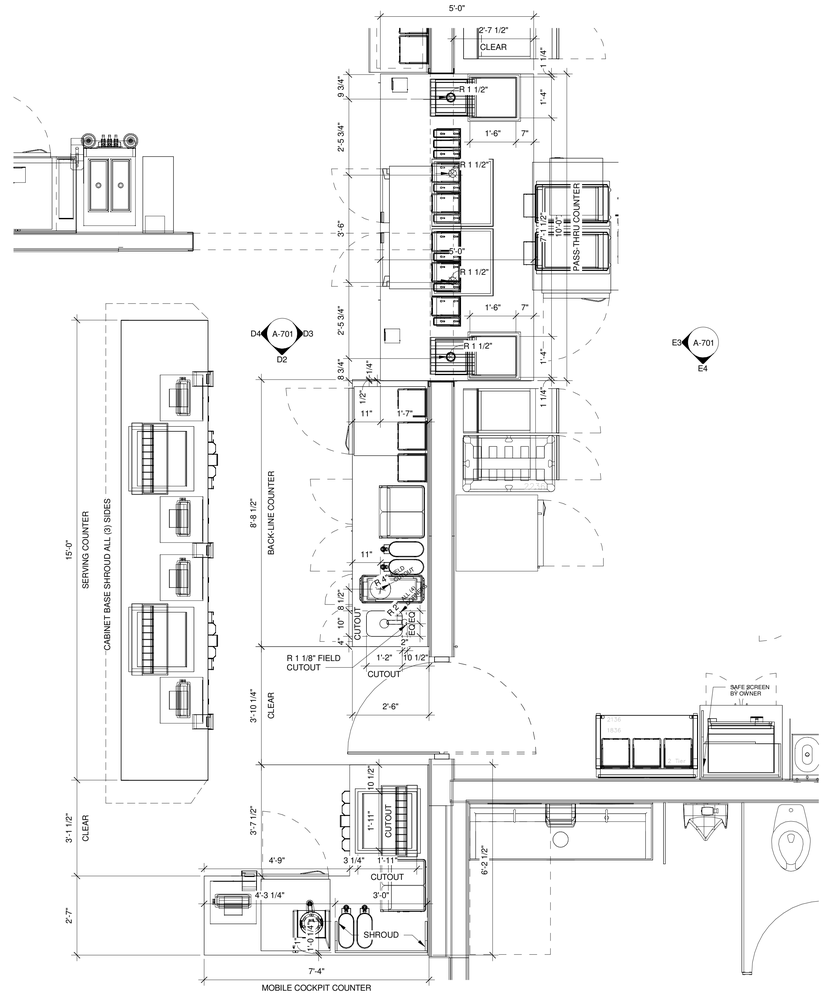
MILLWORK CURB LEGEND

NOTE: CURB HEIGHT AS MEASURED FROM FINISH FLOOR. GC TO FIELD COORDINATE HEIGHT FROM SLAB ELEVATION.

- 3" CURB
- 5 1/2" CURB
- EDGE OF CURB
- EDGE OF CABINET
- EDGE OF COUNTER



A3 MILLWORK CURB PLAN - PLAY
1/2" = 1'-0"



A2 MILLWORK COUNTER PLAN - PLAY
1/2" = 1'-0"

WARE MALCOMB
ARCHITECTURE CIVIL ENGINEERING
PLANNING LANDSCAPE
INTERIORS BUILDING MEASUREMENT
915 Wilshire Blvd, Suite #2150
Los Angeles, CA 90017
P 310.963.4000

CHARTERED ARCHITECT
KEVIN T. EVERNHAM
3199
SCOTTSDALE, AZ
STATE OF MONTANA
11/12/2025

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

CHICK-FIL-A
CUSTER & WASHINGTON

2770 N WASHINGTON STREET
HELENA, MONTANA 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
PRINTED FOR
PERMIT RESUBMITTAL

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
2	2025-08-22	PLAN CHECK - REV 2

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THIS SET OF APPROVED PLANS TO BE ON JOB SITE AT ALL TIMES

CONSULTANT PROJECT # LAX22-0129-01
DATE 10/20/2025
DRAWN BY M.M.O./ K.G.

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SHEET
MILLWORK PLANS AND ELEVATIONS

SHEET NUMBER
A-701

11/12/2025 2:21:49 PM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_ARC.rvt
10-LS-05484-A-701-MILLWORK PLANS AND ELEVATIONS

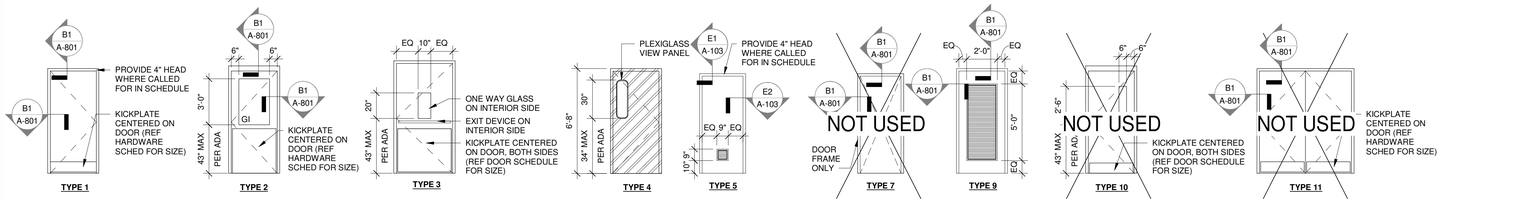
DOOR HARDWARE SCHEDULE

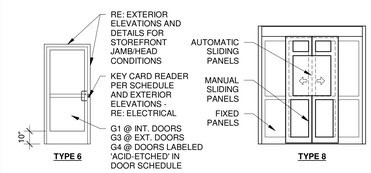
SUPPLIER	QTY.	ITEM	YKK MANUFACTURER	YKK MODEL NUMBER	KAWNEER MANUFACTURER	KAWNEER MODEL NUMBER
SET #01 - ENTRY (PAIR)						
YKK OR KAWNEER	2	PANIC PULL	YKK	H-1541-628	KAWNEER	137730 / Clear Anodized
YKK OR KAWNEER	1 SET	EXIT DEVICE	FIRST CHOICE	MEL-3690	DOM/FALCON	MEL 1690-EL
YKK OR KAWNEER	1	RIM CYLINDER	SARGENT	P42741	SARGENT	#60-42
YKK OR KAWNEER	2	CLOSER	YKK	H6104	LCN	4041 SMC
YKK OR KAWNEER	2	CONTINUOUS HINGE	YKK	H20100	HAGER	050820-40
YKK OR KAWNEER	1	THRESHOLD	YKK	E90449	KAWNEER	037869
YKK OR KAWNEER	2	DOOR SWEEP	YKK	H7107	KAWNEER	200798
SET #03 - DINING ENTRY (SINGLE)						
YKK OR KAWNEER	1	PULL	YKK	H-1541-628	KAWNEER	137703 / Clear Anodized
YKK OR KAWNEER	1	EXIT DEVICE	YKK	P54453	DOM/FALCON	1790
YKK OR KAWNEER	1	DOOR CLOSER	LCN CLOSERS	H6104	LCN CLOSERS	#4041
YKK OR KAWNEER	1	CONTINUOUS HINGE	YKK	H20100	HAGER	050820-40
YKK OR KAWNEER	1	THRESHOLD	YKK	E90449	KAWNEER	037862
YKK OR KAWNEER	1	RIM CYLINDER	SARGENT	P42741	SARGENT	#63-34
YKK OR KAWNEER	1	DOOR SWEEP	YKK	H7107	KAWNEER	200795
YKK OR KAWNEER	1	FLOOR STOP	ROCKWOOD	P71203626	ROCKWOOD	483X-US32D
SET #04 - PLAYROOM						
YKK OR KAWNEER	1	DOOR CLOSER	LCN CLOSERS	4040	LCN CLOSERS	4040
YKK OR KAWNEER	1	TOE GUARD	NATIONAL GUARD	14RDKB - 1 3/4	NATIONAL GUARD	I4RKB X 36"
YKK OR KAWNEER	1	DOOR PUSH	ROCKWOOD	T8F159	BURNS	422
YKK OR KAWNEER	1	DOOR PULL	ROCKWOOD	T118BTB	BURNS	39SP
YKK OR KAWNEER	1	FINGER GUARD	DORMAKABA	H7104	KAWNEER	038365
YKK OR KAWNEER	1	HINGE	HAGER	780-113HD	SELECT	SL71
SET #05 - DINING EXIT ONLY (SINGLE)						
YKK OR KAWNEER	1	EXIT DEVICE	YKK	P54453	DOM/FALCON	1790
YKK OR KAWNEER	1	DOOR CLOSER	LCN CLOSERS	H6104	LCN CLOSERS	#4041
YKK OR KAWNEER	1	CONTINUOUS HINGE	YKK	H20100	HAGER	050820-40
YKK OR KAWNEER	1	THRESHOLD	YKK	E90449	KAWNEER	037862
YKK OR KAWNEER	1	RIM CYLINDER	SARGENT	P42741	SARGENT	#63-34
YKK OR KAWNEER	1	DOOR SWEEP	YKK	H7107	KAWNEER	200795
YKK OR KAWNEER	1	FLOOR STOP	ROCKWOOD	P71203626	ROCKWOOD	483X-US32D
SET #06 - VESTIBULE (PAIR)						
YKK OR KAWNEER	2	DOOR PUSH / PULL	YKK	H-1141-628	KAWNEER	137703 / Clear Anodized
YKK OR KAWNEER	2	DOOR CLOSER	LCN CLOSERS	H6104	LCN CLOSERS	#4041
YKK OR KAWNEER	2 SETS	O/S PIVOTS	YKK	H2101RH/ H2102LH	KAWNEER	050322, 050323, 035506
YKK OR KAWNEER	2	FLOOR STOP	ROCKWOOD	P71203626	ROCKWOOD	483X-US32D
SET #08 - MULTIPURPOSE						
LOCKNET OR DH PACE	3	STANDARD HINGE	MCKINNEY	TA2314 4-1/2" X 4-1/2" (NRP) US32D		
LOCKNET OR DH PACE	1	KEYPAD CYLINDRICAL LOCK	SARGENT	21 28-KP10G77 LL US26D MK		
LOCKNET OR DH PACE	1	DOOR CLOSER	LCN CLOSERS	351 CPSH EN		
LOCKNET OR DH PACE	1	KICK PLATE (BACK OF HOUSE)	ROCKWOOD	0 36"h X 34"w US32D 4BE		
LOCKNET OR DH PACE	1	KICK PLATE (WHEN FACING DINING AREAS)	ROCKWOOD	K1050 8"h X 36"w US32D 4BE		
LOCKNET OR DH PACE	1	WEATHER STRIPPING	PEMKO	S88 D17		
LOCKNET OR DH PACE	1	WALL DOOR STOP	ROCKWOOD	403 US26D		
SET #09 - OFFICE						
LOCKNET OR DH PACE	3	STANDARD HINGE	MCKINNEY	TA2714 4-1/2" X 4-1/2" (NRP) X US26D		
LOCKNET OR DH PACE	1	DOOR CLOSER	SARGENT	351 CPSH EN		
LOCKNET OR DH PACE	1	KICK PLATE	ROCKWOOD	K1050 36"h X 34"w US32D 4BE		
LOCKNET OR DH PACE	3	SILENCER	ROCKWOOD	608		
LOCKNET OR DH PACE	1	WALL DOOR STOP	ROCKWOOD	403 US26D		
LOCKNET OR DH PACE		KEYPAD CYLINDRICAL LOCK	SARGENT	21 28-KP10G77 LL US26D MK		
SET #11 - KITCHEN						
ELIASON	2	DOOR PULL	HAGER COMPANIES	6" ALLUM (US32D) MODEL 3E		
SET #13 - EXTERIOR STORAGE						
LOCKNET OR DH PACE	1	PIANO HINGE	PEMKO	CMF83 HD X ALUM.X TEK		
LOCKNET OR DH PACE	1	LOCKSET	SARGENT	28-1160-10G04 LL US26D MK		
LOCKNET OR DH PACE	1	LOCK GUARD	ROCKWOOD	321 X US32D		
LOCKNET OR DH PACE	1	THRESHOLD	PEMKO	171A		
LOCKNET OR DH PACE	1	DOOR SWEEP	PEMKO	315CN (TKSP8)		
LOCKNET OR DH PACE	1 SET	WEATHER STRIPPING	PEMKO	303AS (TKSP8)		
LOCKNET OR DH PACE	1	DRIP TOP SWEEP	PEMKO	346C (TKSP8)		
LOCKNET OR DH PACE	3	DOOR SILENCER	ROCKWOOD	608		
LOCKNET OR DH PACE	1	DOOR CLOSER	SARGENT	351 CPSH EN		
LOCKNET OR DH PACE	1	KICK PLATE	ROCKWOOD	K1050 36"h X 34"w US32D 4BE or K1050 36"h X 38"w US32D 4BE		
SET #17 - CLOSET (SINGLE)						
LOCKNET OR DH PACE	3	STANDARD HINGE	MCKINNEY	MPB79 4-1/2" X 4-1/2" (NRP) X US26D		
LOCKNET OR DH PACE	1	DOOR CLOSER	SARGENT	351 CPSH EN		
LOCKNET OR DH PACE	1	KICK PLATE	ROCKWOOD	10 8"h X 28"w US32D BEV		
LOCKNET OR DH PACE	3	SILENCER	ROCKWOOD	608		
LOCKNET OR DH PACE	1	LOCKSET	SARGENT	28 60-10G05 LL X US26D		
SET #18 - RESTROOM (MULTI-OCCUPANT)						
LOCKNET OR DH PACE	3	STANDARD HINGE	MCKINNEY	TA2714 4-1/2" X 4-1/2" (NRP) X US26D		
LOCKNET OR DH PACE	1	PUSH PLATE	ROCKWOOD	70E US32DMS		
LOCKNET OR DH PACE	1	DOOR CLOSER	SARGENT	(Inswing: 351H)(Outswing: 351 CPSH)		
LOCKNET OR DH PACE	3	SILENCERS	ROCKWOOD	608		
LOCKNET OR DH PACE	1	KICK PLATE	ROCKWOOD	K1050 8"h X 36"w US32D 4BE - PUSH SIDE		
LOCKNET OR DH PACE	1	WALL STOP	ROCKWOOD	403 US26D		
LOCKNET OR DH PACE	1	TRIMCO PULL BAR (IF DOOR SWINGS INSIDE RR)	TRIMCO	PART 1135 BRUSHED STAINLESS		
LOCKNET OR DH PACE	1	PULL PLATE (IF DOOR SWINGS OUTSIDE RR)	ROCKWOOD	BF110 X 70C US32DMS TYPE 1		
SET #20 - RESTROOM (SINGLE-OCCUPANT)						
LOCKNET OR DH PACE	3	STANDARD HINGE	MCKINNEY	TA2714 4-1/2" X 4-1/2" (NRP) X US26D		
LOCKNET OR DH PACE	1	DOOR CLOSER	SARGENT	(Inswing: 351H)(Outswing: 351 CPSH)		
LOCKNET OR DH PACE	3	DOOR SILENCER	ROCKWOOD	608		
LOCKNET OR DH PACE	1	KICK PLATE	ROCKWOOD	K1050 8"h X 36"w US32D 4BE - PUSH SIDE		
LOCKNET OR DH PACE	1	WALL STOP	ROCKWOOD	403 US26D		
LOCKNET OR DH PACE	1	LOCKSET	DORMA	M9048 LRB PRIVACY X WITH DUAL INDICATORS 626		
SET #21 - ENTRY (KEYCARD)						
YKK OR KAWNEER	1	PULL	YKK	H-1541-628	KAWNEER	137730 / Clear Anodized
YKK OR KAWNEER	1	EXIT DEVICE	YKK	P54453	DOM/FALCON	1790
YKK OR KAWNEER	1	DOOR CLOSER	LCN CLOSERS	H6104	LCN CLOSERS	#4041
YKK OR KAWNEER	1	CONTINUOUS HINGE	YKK	H20100	HAGER	050820-40
YKK OR KAWNEER	1	THRESHOLD	YKK	E90449	KAWNEER	037862
YKK OR KAWNEER	1	RIM CYLINDER	SARGENT	P42741	SARGENT	#63-34
YKK OR KAWNEER	1	DOOR SWEEP	YKK	H7107	KAWNEER	200795
YKK OR KAWNEER	1	FLOOR STOP	ROCKWOOD	P71203626	ROCKWOOD	483X-US32D
YKK OR KAWNEER	1	ELECTRIC STRIKE	HES	9400	HES	7089
SET #22 - EXTERIOR STORAGE (FLORIDA)						
LOCKNET OR DH PACE	1	PIANO HINGE	MCKINNEY	MCK-12HD 83" CLEAR FMK-CL		
LOCKNET OR DH PACE	1	LOCKSET	SARGENT	60-LB-8251-LL-US26D STORM MORTISE LOCK W/ DBOLT		
LOCKNET OR DH PACE	1	LOCK GUARD	ROCKWOOD	321 X US32D		
LOCKNET OR DH PACE	1	THRESHOLD	PEMKO	65AT 40" THRESHOLD		
LOCKNET OR DH PACE	1	DOOR SWEEP	PEMKO	315 CN 40" NEOPRENE		
LOCKNET OR DH PACE	1 SET	WEATHER STRIPPING	PEMKO	303AS-42" X 84"		
LOCKNET OR DH PACE	1	DRIP TOP SWEEP	PEMKO	40" (346C40)		
LOCKNET OR DH PACE	1	CLOSER	SARGENT	351 CPSH EN		
LOCKNET OR DH PACE	1	KICK PLATE	ROCKWOOD	K1050 36"h X 34"w US32D 4BE		
LOCKNET OR DH PACE	1	LOUVER	PEMKO	LV-WSG 12" X 12" WINDSTORM RATED		
SET #23 - TECH CLOSET						
LOCKNET OR DH PACE	3	STANDARD HINGE	MCKINNEY	MPB68 5" x 4 1/2" US26D NRP		
LOCKNET OR DH PACE	1	WALL DOOR STOP	ROCKWOOD	409 US32D		
LOCKNET OR DH PACE	3	DOOR SILENCER	ROCKWOOD	608-RKW		
LOCKNET OR DH PACE	1	DOOR POSITION SWITCH	SECURITRON	DPS-W-Black		
LOCKNET OR DH PACE	1	KEYPAD CYLINDRICAL LOCK	SARGENT	21 28-KP10G77 LL US26D MK		
SET #24 - CLOSET (DOUBLE)						
LOCKNET OR DH PACE	6	STANDARD HINGE	MCKINNEY	TA2714 4-1/2" X 4-1/2" (NRP) X US26D		
LOCKNET OR DH PACE	2	FLUSH BOLT	ROCKWOOD	555 US26D		
LOCKNET OR DH PACE	1	LOCKSET	SARGENT	60-10G05 LL X US26D		
LOCKNET OR DH PACE	1	DOOR CLOSER	SARGENT	351 CPSH EN - LHR		
LOCKNET OR DH PACE	1	DOOR CLOSER	SARGENT	351 CPSH EN - RHR		
LOCKNET OR DH PACE	2	KICK PLATE (IF 5'-0" DOOR)	ROCKWOOD	K1050 8"h X 28"w US32D BEV		
LOCKNET OR DH PACE	2	DOOR SILENCER	ROCKWOOD	608		
LOCKNET OR DH PACE	2	KICK PLATE (IF 6'-0" DOOR)	ROCKWOOD	K1050 8"h X 34"w US32D BEV		

NOT USED

DOOR SCHEDULE

DOOR NUMBER	DESCRIPTION	DOOR SIZE HEIGHT	DOOR SIZE WIDTH	DOOR SIZE THICK	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	HARDWARE	FRAME MATERIAL	FRAME FINISH	REMARKS
10	KITCHEN	6'-8"	3'-0"	3/4"	4	STAINLESS STEEL	BRUSHED	SET #11	STAINLESS STEEL	(none)	(none)
11	TEAM MEMBER	6'-8"	3'-0"	1 3/4"	2	S.C. WOOD	PL-40	SET #25	KNOCK-DOWN HOLLOW METAL	PT-35	PROVIDE KICK PLATE. PROVIDE HOLD-OPEN ON CLOSER. UREA FREE. ADJUST THICKNESS TO ACCEPT LAMINATE. PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE 1/8" ON ALL 3 SIDES TO PLUMB AND SQUARE FRAME.
12	OFFICE	6'-8"	3'-0"	1 3/4"	2	INSULATED METAL	PT-35	SET #09	KNOCK-DOWN HOLLOW METAL	PT-35	PROVIDE KICK PLATE ON KITCHEN SIDE. PROVIDE HOLD-OPEN ON CLOSER. PROVIDE KEYPAD. PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE 1/8" ON ALL 3 SIDES TO PLUMB AND SQUARE FRAME.
13	LOADING	7'-0"	4'-0"	1 3/4"	3	SEE ZIGMAN PRODUCTS PACKAGE	SEE ZIGMAN PRODUCTS PACKAGE	(none)	SEE ZIGMAN PRODUCTS PACKAGE	PT-113	CONTACT ZIGMAN PRODUCTS CO FOR COMPLETE FRP DOOR ASSEMBLY PACKAGE. (888)-584-1303. PANIC HARDWARE ON INSIDE AND KEY ACCESS ON OUTSIDE. PROVIDE 34" x 44" KICK PLATE ON KITCHEN SIDE. PROVIDE 34" x 46" KICK PLATE ON SERVICE YARD SIDE. PROVIDE ELECTRONIC STRIKE. SIMILAR THRESHOLD AS STOREFRONT DOORS.
14	DRIVE THRU	7'-0"	3'-0"	1 3/4"	6	ALUMINUM W ACID-ETCHED GLASS	DARK BRONZE	SET #26	ALUMINUM	DARK BRONZE	ADJUST CLOSER TO OPEN 95 DEGREES, MAX. REFER TO EXTERIOR ELEVATIONS FOR HEAD/JAMB DETAILS. PROVIDE ELECTRONIC STRIKE.
15	DRIVE THRU SLIDING	7'-8"	7'-0"	8"	8	SEE TORMAX SHOP DWGS	SEE TORMAX SHOP DWGS	(none)	SEE MFR SHOP DWGS	SEE MFR SHOP DWGS	(none)
16	TECH CLOSET	6'-8"	3'-0"	1 5/8"	9	INSULATED METAL	PT-35	SET #23	KNOCK-DOWN HOLLOW METAL	PT-35	PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE 1/8" ON ALL 3 SIDES TO PLUMB AND SQUARE FRAME.
17	UTILITY	7'-0"	3'-0"	1 3/4"	1	INSULATED METAL	PAINT TO MATCH ADJACENT BRICK	SET #13	HOLLOW METAL (GALVANIZED)	PAINT TO MATCH ADJACENT BRICK	(none)
18	RESTROOM	6'-8"	3'-0"	1 5/8"	1	S.C. WOOD	PL-40	SET #18	KNOCK-DOWN HOLLOW METAL	PT-35	UREA FREE. ADJUST THICKNESS TO ACCEPT LAMINATE. PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE 1/8" ON ALL 3 SIDES TO PLUMB AND SQUARE FRAME.
19	RESTROOM	6'-8"	3'-0"	1 5/8"	1	S.C. WOOD	PL-40	SET #18	KNOCK-DOWN HOLLOW METAL	PT-35	UREA FREE. ADJUST THICKNESS TO ACCEPT LAMINATE. PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE 1/8" ON ALL 3 SIDES TO PLUMB AND SQUARE FRAME.
21	VESTIBULE (PAIR)	7'-0"	6'-0"	1 3/4"	6	ALUMINUM W GLASS	DARK BRONZE	SET #06	ALUMINUM	DARK BRONZE	NO LOCKING DEVICE. ADJUST CLOSER TO OPEN 95 DEGREES, MAX.
23	DINING	7'-0"	3'-0"	1 3/4"	6	ALUMINUM W GLASS	DARK BRONZE	SET #03	ALUMINUM	DARK BRONZE	ADJUST CLOSER TO OPEN 95 DEGREES, MAX. REFER TO EXTERIOR ELEVATIONS FOR HEAD/JAMB DETAILS.
27	DINING	7'-0"	3'-0"	1 3/4"	6	ALUMINUM W GLASS	DARK BRONZE	SET #03	ALUMINUM	DARK BRONZE	ADJUST CLOSER TO OPEN 95 DEGREES, MAX. REFER TO EXTERIOR ELEVATIONS FOR HEAD/JAMB DETAILS.
28	ENTRY (PAIR)	7'-0"	6'-0"	1 3/4"	6	ALUMINUM W GLASS	DARK BRONZE	SET #01	ALUMINUM	DARK BRONZE	ADJUST CLOSER TO OPEN 95 DEGREES, MAX. REFER TO EXTERIOR ELEVATIONS FOR HEAD/JAMB DETAILS.
40	PLAY AREA	7'-0"	3'-0"	1 3/4"	6	ALUMINUM W GLASS	DARK BRONZE	SET #04	ALUMINUM	DARK BRONZE	UNDERCUT DOOR 2" FOR TOE GUARD. NO LOCKING DEVICE. ADJUST CLOSER TO OPEN 95 DEGREES, MAX.
54	TRASH ENCLOSURE	7'-0"	3'-4"	1 3/4"	5	HOLLOW METAL	PT-113	SET #13	INSULATED METAL	PT-113	LOCATED IN STORAGE ROOM AT REFUSE ENCLOSURE, PROVIDE 4" HEAD FRAME.



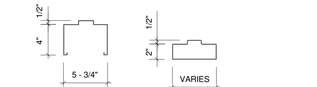


NOTES

1. ALL CONSTRUCTION AND FINAL CORES ARE TO BE ORDERED BY G.C. FROM THE DOOR/HARDWARE PROVIDER AS INDICATED IN THE NATIONAL ACCOUNTS SHEET.
2. ALL DOOR AND HARDWARE PURCHASED BY G.C. THROUGH SUPPLIERS AS INDICATED ABOVE.
3. CLOSERS TO BE ADJUSTED TO COMPLY WITH ADA OPERATING FORCE REQUIREMENTS OF 5 LBS MAX FOR ALL ADA & ANSI HINGED DOORS. INTERIOR DOORS HINGED WITH CLOSER. ENSURE DOOR TAKES 5 SECONDS MIN TO GO FROM 90 DEGREES TO 12 DEGREES FROM LATCH.
4. *NOT USED*
5. *NOT USED*
6. FOR WEATHERSTRIPPING, DRIP CAP, AND THRESHOLD SPECS NOTED ABOVE COORDINATE EXACT MODEL NUMBER WITH SIZE OF OPENING.
7. DRIP CAP REQUIRED AT ALL EXTERIOR DOORS, EXCLUDING ELECTRICAL ROOM, U.N.O.
8. NO SILENCERS REQUIRED AT EXTERIOR TRASH STORAGE ROOM DOOR.

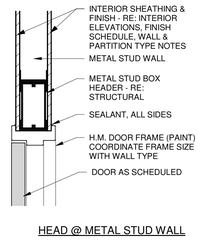
DOOR TYPES LEGEND

N.T.S.

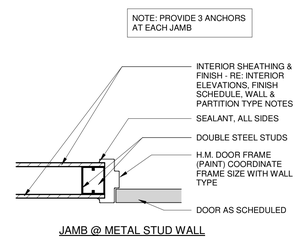


HOLLOW METAL FRAME PROFILES

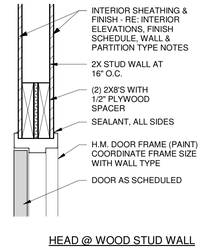
N.T.S.



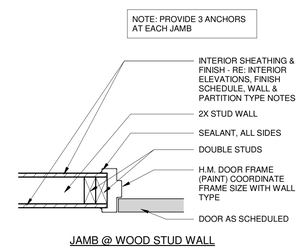
HEAD @ METAL STUD WALL



JAMB @ METAL STUD WALL



HEAD @ WOOD STUD WALL

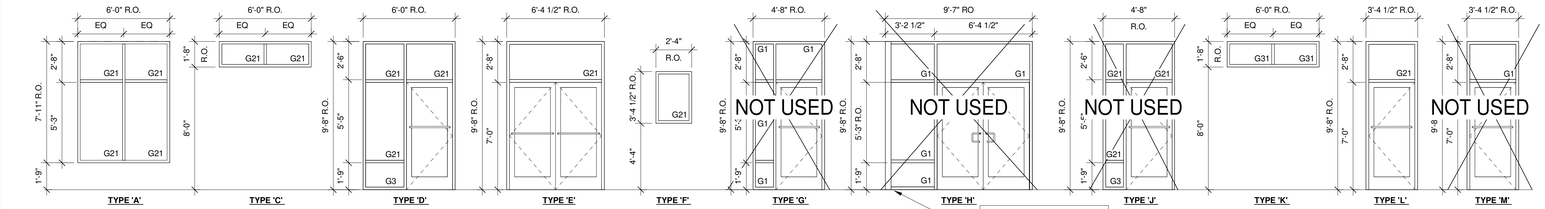


JAMB @ WOOD STUD WALL

NOTE: REFER TO WALL TYPES FOR WALL THICKNESS, INTERIOR ELEVATIONS AND FINISH PLAN FOR WALL FINISHES, AND DOOR SCHEDULE FOR DOOR FRAME MATERIAL.

B1 INTERIOR HOLLOW METAL FRAME HEADS & JAMBS

1 1/2" = 1'-0"



WINDOW TYPES LEGEND

N.T.S.

NOTES:
1. STOREFRONT FRAMING FINISH (ST-1) TYP - REF: EXTERIOR FINISH SCHEDULE
2. REF INTERIOR ELEVATIONS AND FINISH SCHEDULE FOR WINDOW SILL FINISHES
3. REF DOOR SCHEDULE AND TYPES FOR STOREFRONT DOOR INFORMATION

GLAZING SCHEDULE

MARK	THICKNESS	TYPE	TINT	REMARKS
G1	1/4"	TEMPERED	CLEAR	
G3	1/8" (2)	LAMINATED	CLEAR	DUAL LAYER
G4	1/8" (2)	LAMINATED	ACID ETCHED	DUAL LAYER
G11	1/2"	TEMPERED	CLEAR	BUTT GLAZE
G21	1"	TEMPERED	CLEAR - LOW-E	PROVIDE THERMALLY BROKEN AT EXTERIOR LOCATIONS
G31	1"	TEMPERED	ACID ETCHED - LOW-E	PROVIDE THERMALLY BROKEN AT EXTERIOR LOCATIONS
G41	1"	TEMPERED SPANDREL	CLEAR - LOW-E	PROVIDE THERMALLY BROKEN AT EXTERIOR LOCATIONS SPANDREL FILM ON INSIDE FACE
G51	1"	TEMPERED	CLEAR - LOW-E	PROVIDE THERMALLY BROKEN AT EXTERIOR LOCATIONS PROVIDE ONE-WAY FILM ON INSIDE FACE

NOTES:
1. PROTOTYPICAL STOREFRONT SYSTEM (MULLIONS & GLAZING COMBINED) U-FACTOR: 0.38. SHGC: 0.25. VT: 0.54 (CLEAR GLASS - TINTED GLASS WILL NOT BE ACCEPTED)

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

WARE MALCOMB
ARCHITECTURE INTERIORS
CIVIL ENGINEERING PLANNING BUILDING MEASUREMENT
915 Wilshire Blvd. Suite #2150
Los Angeles, CA 90017
P 310.903.4000

KEVIN T. EVERNHAM 3199 SCOTTSDALE, AZ
STATE OF MONTANA
11/12/2025

CHICK-FIL-A
CUSTER & WASHINGTON

2770 N WASHINGTON STREET
HELENA, MONTANA 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
PRINTED FOR
PERMIT RESUBMITTAL

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

PERMIT COPY
THIS SET OF APPROVED PLANS TO BE ON JOB SITE AT ALL TIMES

CONSULTANT PROJECT # LAX22-0129-01
DATE 10/20/2025
DRAWN BY M.M.O./ K.G.

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SHEET
DOOR AND WINDOW LEGENDS

SHEET NUMBER
A-801

11/12/2025 2:21:52 PM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_ARC.rvt
10-LS-05484-A-801-DOOR AND WINDOW LEGENDS

SECTION L01352: LEED REQUIREMENTS (IF APPLICABLE)

LEED REQUIREMENTS

PART I - GENERAL

1.1 RELATED DOCUMENTS
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY
A. Section includes general requirements and procedures for compliance with certain USGBC LEED prerequisites and credits needed for Project to obtain LEED Certifed certification based on LEED 2009 for Retail: New Construction and Major Renovations.
1. The owner shall supply the General Contractor a LEED Scorecard, which will detail the specific credits to be pursued.
B. Related Sections:
1. Divisions 1 through 16 Sections for LEED requirements specific to the work of each of these Sections. Requirements may or may not include reference to LEED.

1.3 DEFINITIONS
A. Chain-of-Custody Certificates: Certificates signed by manufacturers certifying that wood used to make products was obtained from forests certified by an FSC-accredited certification body to comply with FSC STD-01-001, "FSC Principles and Criteria for Forest Stewardship." Certificates shall include evidence that manufacturer is certified for chain of custody by an FSC-FSC-accredited certification body.
B. LEED: Leadership in Energy & Environmental Design.
C. Rapidly Renewable Materials: Materials made from plants that are typically harvested within a 10-year or shorter cycle. Rapidly renewable materials include products made from bamboo, cotton, flax, jute, straw, sunflower seed hulls, vegetable oils, or wool.
D. Regional Materials: Materials that have been extracted, harvested, or recovered, as well as manufactured, within 500 miles (800 km) of Project site. If only a fraction of a product or material is extracted/harvested/recovered and manufactured locally, then only that percentage (by weight) shall contribute to the regional value.
E. Recycled Content: The recycled content value of a material/assembly shall be determined by weight. The recycled fraction of the assembly is then multiplied by the cost of assembly to determine the recycled content value.
1. "Post-consumer" material is defined as waste material generated by households or by commercial, industrial, and institutional facilities in their role as end users of the product, which can no longer be used for its intended purpose.
2. "Pre-consumer" material is defined as material diverted from the waste stream during the manufacturing process. Excluded is reutilization of materials such as rework, regrind, or scrap generated in a process and capable of being reclaimed within the same process that generated it.
a. Note that LEED uses the term "pre-consumer" rather than "post-industrial". Also note that when manufacturers and trade associations use the term "post-industrial" it often includes spills, scraps, and damaged and surplus materials that are fed back into the same manufacturing process and that these materials are not considered recycled content by the LEED rating systems.

1.4 SUBMITTALS
A. General: Submit additional LEED submittals required by other Specification Sections..
B. LEED submittals are in addition to other submittals. If submitted item is identical to that submitted to comply with other requirements, submit duplicate copies as a separate submittal to verify compliance with indicated LEED requirements.
C. LEED Action Plans: Provide preliminary submittals within seven days of date established for the Notice to Proceed indicating how the following requirements will be met:
1. Credit MR 2: Using the LEED Volume construction Waste Management Template
2. Credit EQ 3.1: Construction indoor-air-quality management plan. Using the LEED Volume Indoor Air Quality Management Plan template.
F. LEED Documentation Submittals:
1. Credit MR 2: Comply with Division 1 Section "Construction Waste Management" and CFA Construction Waste Management Plan.
2 Credit MR 4: Product data and certification letter indicating percentages by weight of post-consumer and pre-consumer recycled content for products having recycled content. Include statement indicating costs for each product having recycled content using CFA Recycled Content & Regional Material spreadsheet.
3. Credit MR 5: Product data for regional materials indicating location and distance from Project of material manufacturer and point of extraction, harvest, or recovery for each raw material. Include statement indicating cost for each regional material and the fraction by weight that is considered regional.
4. Credit MR 7: Product data and chain-of-custody certificates for products containing certified wood. Include statement indicating cost for each certified wood product. (IF APPLICABLE)
5. Credit EQ 3.1:
a. Construction indoor-air-quality management plan.
b. Product data for temporary filtration media.
c. Product data for filtration media used during occupancy.
d. Construction Documentation: Six photographs at three different times during the construction period, along with a brief description of the SMACNA approach employed, documenting implementation of the indoor-air-quality management measures, such as protection of ducts and on-site stored or installed absorptive materials.
6. Credit EQ 3.2:
a. Using the LEED Volume Indoor Air Quality Management Plan template describing the building air flush-out procedures including the dates when flush-out was begun and completed and statement that filtration media was replaced after flush-out.
b. Product data for filtration media used during flush-out and during occupancy.
7. Credit EQ 4: Product data for adhesives and sealants used inside the weatherproofing system indicating VOC content of each product used. Indicate VOC content in g/L calculated according to 40 CFR 59, Subpart D.
8. Credit EQ 4: Product data for paints and coatings used inside the weatherproofing system indicating VOC content of each product used. Indicate VOC content in g/L calculated according to 40 CFR 59, Subpart D. (ONLY IF NON-PROTOTYPICAL PAINTS AND COATINGS ARE USED)
9. Credit EQ 4: Product data for products containing composite wood or agrifiber products or wood glues indicating that they do not contain urea-formaldehyde resin. (IF APPLICABLE)

PART II - PRODUCTS

2.1 RECYCLED CONTENT OF MATERIALS
A. Credit MR 4: Provide building materials with recycled content such that post-consumer recycled content plus one-half of pre-consumer recycled content constitutes a minimum of 10 percent of cost of materials used for Project.
1. Cost of post-consumer recycled content of an item shall be determined by dividing weight of post-consumer recycled content in the item by total weight of the item and multiplying by cost of the item.
2. Cost of pre-consumer recycled content of an item shall be determined by dividing weight of pre-consumer recycled content in the item by total weight of the item and multiplying by cost of the item.
3. Do not include plumbing, mechanical and electrical components, and specialty items such as elevators and equipment in the calculation.

2.2 REGIONAL MATERIALS
A. Credit MR 5: A minimum 10 percent of building materials (by cost) for regional materials.

2.3 CERTIFIED WOOD (IF APPLICABLE)
A. Credit MR 7: Provide a minimum of 50 percent (by cost) of wood-based materials that are produced from wood obtained from forests certified by an FSC-accredited certification body to comply with FSC STD-01-001, "FSC Principles and Criteria for Forest Stewardship."
1. Wood-based materials include, but are not limited to, the following materials when made from wood, engineered wood products, or wood-based panel products:
a. Rough carpentry.
b. Miscellaneous carpentry.
c. Heavy timber construction.
d. Wood decking.
e. Metal-plate-connected wood trusses.
f. Structural glued-laminated timber.
g. Finish carpentry.
h. Architectural woodwork.
i. Wood paneling.
j. Wood veneer wall covering.
k. Wood flooring.
l. Wood lockers.
m. Wood cabinets.

2.4 LOW-EMITTING MATERIALS
A. Credit EQ 4: For field applications that are inside the weatherproofing system, use adhesives and sealants that comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D:
1. Categories below are taken from LEED rating systems and the standards referenced by them; if clarification is required, see those documents or the reference guides.
2. Wood Glues: 30 g/L.
3. Metal to Metal Adhesives: 30 g/L.
4. Adhesives for Porous Materials (Except Wood): 50 g/L.
5. Subfloor Adhesives: 50 g/L.
6. Plastic Foam Adhesives: 50 g/L.
7. Carpet Adhesives: 50 g/L.
8. Carpet Pad Adhesives: 50 g/L.
9. VCT and Asphalt Tile Adhesives: 50 g/L.
10. Cove Base Adhesives: 50 g/L.
11. Gypsum Board and Panel Adhesives: 50 g/L.
12. Rubber Floor Adhesives: 60 g/L.
13. Ceramic Tile Adhesives: 65 g/L.
14. Multipurpose Construction Adhesives: 70 g/L.
15. Fiberglass Adhesives: 80 g/L.
16. Contact Adhesive: 80 g/L.
17. Structural Glazing Adhesives: 100 g/L.
18. Wood Flooring Adhesive: 100 g/L.
19. Structural Wood Member Adhesive: 140 g/L.
20. Special Purpose Contact Adhesive (contact adhesive that is used to bond melamine covered board, metal, unsupported vinyl, Teflon, ultra-high molecular weight polyethylene, rubber or wood veneer 1/16 inch or less in thickness to any surface): 250 g/L.
21. Top and Trim Adhesive: 250 g/L.
22. Plastic Cement Welding Compounds: 250 g/L.
23. ABS Welding Compounds: 325 g/L.
24. CPVC Welding Compounds: 490 g/L.
25. PVC Welding Compounds: 510 g/L.
26. Adhesive Primer for Plastic: 550 g/L.
B. Credit EQ 4: For field applications that are inside the weatherproofing system, use paints and coatings that comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D:
1. Flat Paints, Coatings, and Primers: VOC not more than 50 g/L.
2. Nonflat Paints, Coatings, and Primers: VOC not more than 150 g/L.
3. Anticorrosive and Antirust Paints Applied to Ferrous Metals: VOC not more than 250 g/L.
4. Clear Wood Finishes, Varnishes: VOC not more than 350 g/L.
5. Clear Wood Finishes, Lacquers: VOC not more than 550 g/L.
6. Floor Coatings: VOC not more than 100 g/L.
7. Shellacs, Clear: VOC not more than 730 g/L.
8. Shellacs, Pigmented: VOC not more than 550 g/L.
9. Stains: VOC not more than 250 g/L.
C. Credit EQ 4.4: Do not use composite wood or agrifiber products or adhesives that contain urea-formaldehyde resin. (IF APPLICABLE)

2.5 CAST-IN-PLACE CONCRETE
A. Cementitious Materials: Use fly ash as needed to reduce the total amount of Portland Cement, which would be used, by not less than 25 percent.
B. Steel Reinforcement: Recycled content of steel products, provide products with an average recycled content of steel products so post-consumer recycled content plus one-half of pre-consumer recycled content is not less than 25 percent.

PART III- EXECUTION

3.1 CONSTRUCTION WASTE MANAGEMENT
A. Credit MR 2: Comply with Division 1 Section "Construction Waste Management."

3.2 CONSTRUCTION INDOOR-AIR-QUALITY MANAGEMENT
A. Credit EQ 3.1: Comply with SMACNA's "SMACNA IAQ Guideline for Occupied Buildings under Construction." Per the LEED Volume Indoor Air Quality Management Plan template.
1. If Owner authorizes use of permanent heating, cooling, and ventilating systems during construction period as specified in Division 1 Section "Temporary Facilities and Controls," install filter media having a MERV 8 according to ASHRAE 52.2 at each return-air inlet for the air-handling system used during construction.
2. Replace all air filters immediately prior to occupancy.
B. Credit EQ 3.2:
1. After construction ends, prior to occupancy and with all interior finishes installed, perform a building flush-out by supplying a total volume of 14000 cu. ft. (4 300 000 L) of outdoor air per sq. ft. (sq. m) of floor area while maintaining an internal temperature of at least 60 deg F (16 deg C) and a relative humidity no higher than 60 percent.
2. If occupancy is desired prior to flush-out completion, the space may be occupied following delivery of a minimum of 3500 cu. ft. (1 070 000 L) of outdoor air per sq. ft. (sq. m) of floor area to the space. Once a space is occupied, it shall be ventilated at a minimum rate of 0.30 cfm per sq. ft. (1.52 L/s per sq. m) of outside air or the design minimum outside air rate determined in EQ Prerequisite 1, whichever is greater. During each day of the flush-out period, ventilation shall begin a minimum of three hours prior to occupancy and continue during occupancy. These conditions shall be maintained until a total of 14000 cu. ft./sq. ft. (4 300 000 L/sq. m) of outside air has been delivered to the space.

3.3 GENERAL CONTRACTOR COMMISSIONING REQUIREMENTS
A. General Contractor shall complete pre-functional checklists provided in the commissioning plan. Checklists shall be returned at least five days prior to scheduling functional performance testing.
B. General Contractor shall provide a technician to assist the third party commissioning authority with functional testing. Functional testing shall occur after all controls have been installed and verified and after testing and balancing is complete. The functional performance test procedures can be found in the commissioning plan.
C. If the total time required to correct problems during testing is greater than fourty-five (45) minutes (unless extenuating circumstances exist), the test shall be considered failed and must be repeated in its entirety.
D. Re-Testing: During the course of the retest, if at any point major deficiency is discovered, the test will be stopped. Repeat tests until acceptable results are achieved. If more than two functional performance tests (one initial test and one retest) for any type of equipment due to issues that the General Contractor had direct or indirect control over are required, the costs for the CxA to witness retesting of similar types of equipment until satisfactory results are obtained shall be the responsibility of the General Contractor

END OF SECTION L01352

SECTION -L01524: LEED CONSTRUCTION WASTE MANAGEMENT

PART I - GENERAL

1.1 Leadership in Energy & Environmental Design (LEED) Certified Certification is the goal for this project. The contractor will be fully responsible for adherence to all procedures, activities and documentation related to obtaining, at a minimum, Material & Resources Credit 2, Divert 50% from Disposal and obtaining, if possible, Divert 75% from Disposal. (IF APPLICABLE)

1.2 RELATED DOCUMENTS
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.3 SUMMARY
A. This Section includes administrative and procedural requirements for the following:
Adjust list below to suit Project.
1. Salvaging nonhazardous construction waste.
2. Recycling nonhazardous construction waste.
3. Disposing of nonhazardous construction waste.

1.4 DEFINITIONS
A. Construction Waste: Building and site improvement materials and other solid waste resulting from construction, remodeling, renovation, or repair operations. Construction waste includes packaging.
B. Demolition Waste: Building and site improvement materials resulting from demolition or selective demolition operations.
C. Disposal: Removal off-site of demolition and construction waste and subsequent sale, recycling, reuse, or deposit in landfill or incinerator acceptable to authorities having jurisdiction.
D. Recycle: Recovery of demolition or construction waste for subsequent processing in preparation for reuse.
E. Salvage: Recovery of demolition or construction waste and subsequent sale or reuse in another facility.

1.5 PERFORMANCE REQUIREMENTS
A. The Owner has established that this Project shall generate the least amount of waste possible and that processes that ensure the generation of as little waste as possible due to error, poor planning, breakage, mishandling, contamination, or other factors shall be employed.
B. Of the waste that is generated, as many of the waste materials as economically feasible shall be reused, salvaged, or recycled. Waste disposal in landfills or incinerators shall be minimized, thereby reducing disposal costs.
C. Develop waste management plan that results in end-of-Project rates for salvage/recycling of 50 percent by weight of total waste generated by the Work.
D. Salvage/Recycle Requirements: Owner's goal is to salvage and recycle as much nonhazardous construction waste as possible including the following materials:
1. Demolition Waste:
a. Asphaltic concrete paving.
b. Concrete.
2. Construction Waste:
a. Site-clearing waste.
b. Masonry and CMU.
c. Lumber.
d. Wood sheet materials.
e. Wood trim.
f. Metals.
g. Roofing.
h. Insulation.
i. Carpet and pad.
j. Gypsum board.
k. Piping.
l. Electrical conduit.
m. Packaging: Regardless of salvage/recycle goal indicated above, salvage or recycle 100 percent of the following uncontaminated packaging materials:
1) Paper.
2) Cardboard.
3) Boxes.
4) Plastic sheet and film.
5) Polystyrene packaging.
6) Wood crates.
7) Plastic pails.

1.6 SUBMITTALS
A. Construction Waste Management Plan (CWMP): It is the intent of this specification to maximize the diversion of demolition and construction waste from landfill disposal. Accordingly, not more than 7 days after receipt of Notice to Proceed and prior to the generation of any waste, prepare and submit a Draft Construction Waste Management Plan in accordance Section 01524.
B. Submit an electronic copies with calculations on end-of-project recycling rates, salvage rates, and landfill rates itemized by waste material, demonstrating that a minimum of 50% of construction wastes were recycled or salvaged and diverted from landfill. Include documentation of recovery rate (if co-mingled), waste hauling certificates or receipts, and a brief narrative explaining how and to where each waste type has been diverted. Copies shall be uploaded to the Owner's Data Management software account located on "Buzzsaw".
C. Waste Reduction Calculations: Before request for Substantial Completion, submit four copies of calculated end-of-Project rates for salvage, recycling, and disposal as a percentage of total waste generated by the Work. Using the LEED Volume CWM Calculator.
D. Records of Donations: Indicate receipt and acceptance of salvageable waste donated to individuals and organizations. Indicate whether organization is tax exempt.
E. Records of Sales: Indicate receipt and acceptance of salvageable waste sold to individuals and organizations. Indicate whether organization is tax exempt.
F. Recycling and Processing Facility Records: Indicate receipt and acceptance of recyclable waste by recycling and processing facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.
G. Landfill and Incinerator Disposal Records: Indicate receipt and acceptance of waste by landfills and incinerator facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.

1.7 QUALITY ASSURANCE
A. Regulatory Requirements: Comply with hauling and disposal regulations of authorities having jurisdiction.
B. Waste Management Meetings: Conduct an initial conference at Project site to comply with requirements in Division 1 Section "Project Management and Coordination." Contractor shall include discussions on construction waste management requirements in the preconstruction meeting. Contractor shall include discussions on construction waste management requirements in the regular job meetings conducted during the course of the Project; at these meetings, review methods and procedures related to waste management including, but not limited to, the following:
1. Review and discuss waste management plan including responsibilities of Waste Management Coordinator.
2. Review requirements for documenting quantities of each type of waste and its disposition.
3. Review and finalize procedures for materials separation and verify availability of containers and bins needed to avoid delays.
4. Review procedures for periodic waste collection and transportation to recycling and disposal facilities.
5. Review waste management requirements for each subcontractor or trade.

PART II - PRODUCTS
Not Used

PART III - EXECUTION

3.1 PLAN IMPLEMENTATION
A. General: Implement waste management plan as approved by Architect and Owner. Provide handling, containers, storage, signage, transportation, and other items as required to implement waste management plan during the entire duration of the Contract.
1. Comply with Division 1 Section "Temporary Facilities and Controls" for operation, termination, and removal requirements.
B. Training: Train workers, subcontractors, and suppliers on proper waste management procedures, as appropriate for the Work occurring at Project site.
1. Distribute waste management plan to everyone concerned within three days of submittal return.
2. Distribute waste management plan to entities when they first begin work on-site.
C. Site Access and Temporary Controls: Conduct waste management operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
1. Designate and label specific areas on Project site necessary for separating materials that are to be salvaged, recycled, reused, donated, and sold.
2. Recycling and waste bin areas are to be kept neat, and clean, and clearly marked in order to avoid contamination of materials.
3. Comply with Division 1 Section "Temporary Facilities and Controls" for controlling dust and dirt, environmental protection, and noise control.
E. Hazardous Wastes: Hazardous wastes shall be separated, stored, and disposed of according to local regulations and should not be included in Construction Waste Management Plan's calculations of waste.

3.2 RECYCLING DEMOLITION AND CONSTRUCTION WASTE, GENERAL
A. General: Recycle paper and beverage containers used by on-site workers.
B. Recycling Receivers and Processors: The General Contractor shall develop a list for available recycling receivers and processors to include.
C. Recycling Incentives: Revenues, savings, rebates, tax credits, and other incentives received for recycling waste materials shall accrue to Contractor.
D. Procedures: Separate recyclable waste from other waste materials, trash, and debris. Separate recyclable waste by type at Project site to the maximum extent practical.
1. Provide appropriately marked containers or bins for controlling recyclable waste until they are removed from Project site. Include list of acceptable and unacceptable materials at each container and bin.
a. Inspect containers and bins for contamination and remove contaminated materials if found.
2. Stockpile processed materials on-site without intermixing with other materials. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
3. Stockpile materials away from construction area. Do not store within drip line of remaining trees.
4. Store components off the ground and protect from the weather.
5. Remove recyclable waste off Owner's property and transport to recycling receiver or processor.

3.3 RECYCLING DEMOLITION WASTE
A. Asphaltic Concrete Paving: Break up and transport paving to asphalt-recycling facility or recycle on-site into new paving.
B. Concrete: Remove reinforcement and other metals from concrete and sort with other metals.
1. Pulverize concrete to maximum 4-inch (100-mm) size.
2. Crush concrete and screen to comply with requirements in Division 2 Section "Earthwork" for use as satisfactory soil for fill or subbase.

3.4 RECYCLING CONSTRUCTION WASTE
A. Packaging:
1. Cardboard and Boxes: Break down packaging into flat sheets. Bundle and store in a dry location.
2. Polystyrene Packaging: Separate and bag materials.
3. Pallets: As much as possible, require deliveries using pallets to remove pallets from Project site. For pallets that remain on-site, break down pallets into component wood pieces and comply with requirements for recycling wood.
4. Crates: Break down crates into component wood pieces and comply with requirements for recycling wood.
B. Site-Clearing Wastes: Chip brush, branches, and trees on-site.
1. Comply with requirements in Division 2 Section "Exterior Plants" for use of chipped organic waste as organic mulch.
C. Wood Materials:
1. Clean Cut-Offs of Lumber: Grind or chip into material appropriate for mulch or erosion control.
2. Clean Sawdust: Bag sawdust that does not contain painted or treated wood.
3. Lumber treated with heavy-metal preservatives: Do not grind, chip, or incinerate; must be reused or landfilled.
D. Gypsum Board: Stack large clean pieces on wood pallets and store in a dry location.
1. Moisture-damaged gypsum board shall be disposed of in accordance with the local authority having jurisdiction.
2. Clean Gypsum Board: Grind scraps of clean gypsum board using small mobile chipper or hammer mill. Screen out paper after grinding.
a. Comply with requirements in Division 2 Section "Exterior Plants." for use of clean ground gypsum board as inorganic soil amendment.

3.5 DISPOSAL OF WASTE

Add other specific disposal, cleanup, or removal requirements to suit Project.
A. General: Except for items or materials to be salvaged, recycled, or otherwise reused, remove waste materials from Project site and legally dispose of them in a landfill or incinerator acceptable to authorities having jurisdiction.
1. Except as otherwise specified, do not allow waste materials that are to be disposed of accumulate on-site.
2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
3. Appropriate use of site paving as granulated fill is considered reuse, not waste.
B. Burning: Do not burn waste materials.
C. Disposal: Transport waste materials off Owner's property and legally dispose of them.

END OF SECTION L01524

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FSR#05484

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CONSULTANT PROJECT # LAX22-0129-01
DATE 10/20/2025
DRAWN BY M.M.O./ K.G.

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SHEET
SPECIFICATIONS

SHEET NUMBER
A-901.2

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END OF INDEX

DIVISION 1 - GENERAL REQUIREMENTS

SECTION - C01010: WORK COVERED BY CONTRACT DOCUMENTS

PART I - GENERAL

1.1 INTENT OF DRAWINGS AND SPECIFICATIONS
A. The Contractor shall complete all Work as provided for in Contract Documents including Drawings and Building Specifications. Anything mentioned in the Building Specification, supplemental reports, soil reports, environment reports, and not shown on the Drawings, or shown on the Drawings and not mentioned in the Building Specifications, shall be furnished and installed as if shown and mentioned in both. The Contractor shall furnish all materials or labor required to complete Work shown on the Drawings and called out in the Building Specifications, to include labor and material requirements reasonably inferable therefrom as being necessary to complete the work, whether each and every single item necessary to completion is specified or detailed or not.
B. Make arrangements for any required inspections by local or state authorities in a timely manner so as not to delay occupancy of the building.

1.2 CONTRACTOR RESPONSIBILITY FOR WORK REQUIRED
The organization of the Building Specifications into Divisions, Sections and Paragraphs and the arrangement of the Drawings are not intended to control the Contractor in dividing the Work among Subcontractors or to establish the limits and extent of work to be performed by a particular trade. The Contractor alone is responsible for the completion of the entire work as drawn and specified, complete in place and in functional or operating conditions. The division of the Building Specifications into sections and paragraphs is for convenience only and not for the purpose of limiting or restricting the performance of any portion of the Work to any particular trade.

1.3 PART II PRODUCTS
Not used

1.4 PART III EXECUTION
Not used

1.5 END OF SECTION C01010

SECTION - C01020: OWNER FURNISHED ITEMS

PART I - GENERAL

1.1 OWNER'S RIGHT TO INSTALL ITEMS AND/OR EQUIPMENT PURCHASED UNDER SEPARATE CONTRACTS
A. Owner retains the right to place and install, in coordination with Contractor's construction schedule, as many items and/or as much equipment as he may require during the progress of the Work, before completion of the various parts of the Work. This shall not in any way inhibit completion of the Work or any portion thereof, nor shall it signify Owner's acceptance of the Work or any portion thereof.

PART II - PRODUCTS

2.1 CATEGORIES OF ITEMS
By Owner: Items shown or noted as "B.O." or "By Owner" on the drawings and/or in the specifications shall be furnished by Owner to Contractor/subcontractor for installation by Contractor/subcontractor as part of the construction contract. SEE RESPONSIBILITY SCHEDULE.
Contractor/subcontractor shall receive, to the extent of unloading at the job site as required, store and be responsible to the extent of carrying necessary insurance to cover items in case of theft, fire, loss, malicious damage and other miscellaneous damage. Included, but not inclusive, in this category are:
Not In Contract (NIC): Items shown or noted "(NIC)" on the drawings and/or in the specifications shall be furnished and installed by Owner under separate contract. SEE RESPONSIBILITY SCHEDULE.

PART III - EXECUTION

3.1 RECEIPT OF ITEMS
A. During the course of construction, some deliveries of equipment and miscellaneous items will be made to the job site by common carrier. Contractor shall receive, unload, and inspect items for conformance to delivery ticket(s) and for damage. If during receipt any missing or damaged items are observed, Contractor shall:
1. Make notation of any and all discrepancies on the delivery ticket(s).
2. Call delivery carrier and advise him of the problem.
3. Call the Owner's Purchasing Contact and advise of any problems.
B. Make notation of any and all discrepancies on the delivery ticket(s).

END OF SECTION C01020

SECTION - C01030: ALTERNATE AND SUBSTITUTION PROCEDURES

PART I - GENERAL

1.1 DESCRIPTION
A. Section includes Alternates and Substitution Submittal Process

1.2 ALTERNATE
A. Acceptance: Alternates will be exercised at option of Owner. The contractors are required to use the specified materials. Alternate proposals for specified materials will not be received or reviewed. Exception: If there is a supply issue, contact the Owner immediately.
B. Coordination: Coordinate related work and modify surrounding work as required to complete the Work, including changes under each Alternate, when acceptance is designated in Owner-Contractor Agreement.

1.3 SUBSTITUTION
A. Acceptance: Substitution of material, article or method will be exercised at the option of the Owner. When material, article, or method is specified using name of proprietary product manufacturer, vendor or method only that item will be allowed unless a "substitution" clause is provided in that section.
1. Cost for redesigns due to substituted items are the responsibly of the Contractor.
B. Bidder represents the following in making their request for substitution(s).
1. Has personally investigated proposed product or method and determined it is equal in all respects that specified.
2. Will furnish same guarantee for substitution as for product or method specified.
3. Will coordinate installation of accepted substitution into Work, making design and construction changes to complete Work in all respects following Contract requirements without additional cost to the Construction.
C. Submittal: For substitutions that do not change design intent, submit three (3) copies of complete data set to permit complete analysis of proposed substitutions.
4. Identification including manufacturer name, address and web site
5. Manufacturer literature
6. Samples where appropriate
7. Data relating to impact on construction schedule by proposed substitution

1.4 ALTERNATE PROPOSALS
NONE

PART II PRODUCTS
Not used

PART III EXECUTION
Not used

END OF SECTION C01030

SECTION C01040 - COORDINATION

PART I GENERAL

1.1 GENERAL INFORMATION
A. The mechanical and electrical drawings are a part of the Contract Documents and shall be followed as closely as actual construction of the building and the work of the other trades will permit.
B. All equipment and materials shall be installed according to the manufacturer's instructions.

1.2 STANDARDS, LAWS AND ORDINANCES
A. This work shall be done in strict accordance with the local building codes, National Fire Protection Association, ASTM, U/L, Inc. and other nationally recognized testing or trade association standards.

1.3 PERMITS AND FEES
A. Obtain and pay all permits, deposits, fees and inspections necessary for each trade's work. The Contractor shall be reimbursed for all non-refundable costs.
B. Make arrangements for any required inspections by local or state authorities in a timely manner so as not to delay occupancy of the building.

1.4 ACCESS PANELS
A. Where control or shut-off valves, heating coils or other equipment which will be required to be operated serviced or adjusted is installed above a non-removable ceiling system or behind furred walls, Mechanical or Electrical Subcontractors shall furnish and deliver access panels as required to the General Contractor.
B. Access panels shall be large enough to make possible the servicing adjustment, operation, removal and/or replacement of concealed equipment, but shall be at least 24" x 24" in ceilings and 16" x 24" in walls.
C. Where required they shall be U/L, Inc. or FM (Factory Mutual) "B" labeled.

1.5 GENERAL REQUIREMENTS FOR PRODUCT DELIVERY, STORAGE AND HANDLING
A. Deliver materials in manufacturer's original sealed containers.
1. Labels legible and intact identifying brand name and contents.
2. Open containers so as not to destroy labels.
B. Storage
1. Store materials inside vendor cover, stack flat or on edge as recommended by
2. Store materials in dry places, protect from leakage.
3. Do not overload floor system.
C. Handling
1. Do not drag any material across other stored material.
2. Handle with care to avoid damage.
D. Specific requirements as applicable will appear in later Sections.

1.6 TEST BORINGS
A. Test borings have been made at various locations within the construction area and the results of such borings are available for inspection at the office of the General Contractor. They are not part of the Contract Documents. Boring logs and reports are made available for information only, and the continuity of conditions represented therein are not guaranteed. All conclusions drawn by the Contractor as to existing conditions shall be the result of his own investigations and studies.

1.7 WEATHER CONDITIONS
A. In the event of temporary suspension of work, during inclement weather, the Contractor shall, and will cause his Subcontractors to protect carefully his and their work and materials against damage or injury from the weather. If, in the opinion of the Architect, any work or materials shall have been damaged or injured by reason of failure on the part of the Contractor or any of his Subcontractors so to protect his work, such materials shall be removed and replaced at the expense of the Contractor.

1.8 TIME FOR COMPLETION
A. It is hereby understood and mutually agreed, by and between the Contractor and the Owner, that the date of beginning and the time for completion as specified in the contract of the work to be done hereunder are ESSENTIAL CONDITIONS of this Contract, and it is further mutually understood and agreed that the work embraced in this contract shall be commenced on a date to be specified in the Notice to Proceed.
B. The Contractor agrees that said work shall be prosecuted regularly, diligently, and uninterruptedly at such a rate of progress as will insure full completion thereof within the time specified in the contract. It is expressly understood and agreed, by and between the Contractor and the Owner, that the time for the completion of work described herein is a reasonable time for the completion of the same, taking into consideration the average climatic range and usual industrial conditions prevailing in this locality.

1.9 GRADES, LINES, LEVELS
A. The general contractor shall employ an experienced, reliable approved surveyor to complete the primary layout work and may utilize a competent field engineer to establish secondary lines and levels. The Contractor may rely upon site survey plot provided by the Owner to be true and accurate.
B. Locate foundations on property as drawings show. Establish and maintain, street lines, curb lines, levels, building lines, column center lines, base lines and bench marks.
C. Lay out partition lines and buck centers on form work and on rough floors for information of all trades.
D. Lines and levels shall be established from existing monuments located near site. Elevations given on drawing shall be established by levels from nearest bench mark. Datum reference is noted on drawings. Should doubt arise as to accuracy of lines, levels or surveys established by surveyor, Architect reserves right to call in another surveyor, verify all previous work and establish additional lines, levels, and surveys as necessary to settle all points in question. Expense of such additional survey work shall be borne by Contractor if Contractor's surveyor was in error.
E. The mechanical trades shall be responsible for the layout of the ductwork and piping based on the reference lines and bench marks established by the Contractor.

1.10 SLEEVES AND HANGERS
A. Any contractor or Subcontractor required to furnish and install conduits, outlets, piping sleeves, boxes inserts or other materials, or equipment necessary to be built into work to be performed by the Contractor shall promptly furnish and set such sleeves or other materials as per requirements of construction program. They shall also furnish data to other trades regarding opening required in floor slabs, walls, metal roof decks, etc.
B. All trades shall cooperate fully in connection with performance of above work, as cutting in new work is neither contemplated nor will it be tolerated.
C. Necessary expenditures incurred for approved boxing out, filling or subsequent drilling or coring shall be borne without extra cost to Owner.

1.11 CUTTING AND PATCHING
A. Except as otherwise specified, each subcontractor shall execute all cutting and patching in his work that may be required by others so that the engagements between the various material will be neat and proper. Cutting of any structural portions of the building shall not be permitted except as approved by the Owner. Each subcontractor shall locate and provide sleeves, suitable to the general contractor, for all holes, chases, openings, or block-outs required for the installation of their work. All such openings shall be straight, true, and of proper size. No excessive cutting will be permitted, nor shall openings be located to alter the installation of any structural member from that indicated on drawings. After the work has been installed, all openings shall be carefully patched and fitted around as directed and to the satisfaction of the Owner.

1.12 BARRICADES AND PROTECTION
A. The Contractor shall provide and maintain at all times during execution of work as required by duly constituted authorities, or as otherwise may be appropriate, to insure safety of workmen, passersby, employees of Owner, and all other persons.
1. Temporary barricades and enclosures, adequately lighted.
2. Barricades and closures for openings as nature of work demands.
3. Barricades, partitions and enclosures, where exposed to public view, shall be of neat design, substantially construction and neatly painted.
B. The Contractor shall have sole responsibility for the erection and proper maintenance at all times, as required by laws and regulations and otherwise by the conditions and progress for the work, of proper safeguards for the protection of property, workmen and the public and shall post signs warning against the dangers created by openings, stairways, falling materials, open excavations and all other hazardous conditions; and the Contractor shall designate a responsible member of his organization on the job whose duties shall include prevention of accidents.
C. Adequate precautions shall be taken by the contractor against fire throughout all the Contractor's and Subcontractors' operations. Flammable materials shall be kept at an absolute minimum, and, if any, shall be properly handled and stored. Except as otherwise expressly provided herein, the Contractor shall not permit fires to be built.

1.13 ACCIDENTS
A. The Contractor shall provide and make available medical supplies and equipment necessary to supply on site first aid to all personal injured in connection with the work.
B. The Contractor shall report any and all accidents in writing to Insurance Company, Owner and Architect within 24 hours of occurrence. The report shall contain the following information and it shall be the responsibility of the Contractor to have an accident report filled out in triplicate and submitted as required above with (1) Name of Person or Persons and Home Address, (2) Location of Occurrence, (3) Time of Day and Date, (4) Description of Occurrence, (5) Statements of Witnesses, and (6) Signature of Contractor's Superintendent.
C. In addition, if death or serious injuries or serious damages are caused, the accident shall be reported by the contractor to the Architect and to the Owner immediately by telephone or messenger. If any claim is made by anyone against the Contractor or any Subcontractor on account of any accident, the Contractor shall promptly report the facts in writing to the Owner, giving full details of the claim.

1.14 TEMPORARY STAIRS, LADDERS, RAMPS
A. This General Contractor shall furnish and maintain temporary stairs, ladders, ramps, scaffolds, runways, chutes, and like, required for proper execution of work by trades. Such apparatus equipment, and construction shall be as per State or Local laws applicable thereto.

1.15 TEMPORARY TOILETS
A. The contractor shall furnish, install and maintain the necessary temporary toilet facilities for all workmen; said toilets shall be placed at the time work starts and maintained until such time as the permanent toilet facilities are put in operating condition. Unless directed otherwise, the temporary toilets shall be of the chemical type and shall be placed and maintained as required. Necessary temporary enclosure shall be provided to accommodate the toilets. The toilets shall be maintained in a sanitary condition and removed together with their contents when directed. These units shall be serviced as required, to include emptying tanks, recharging with a germicidal and deodorizing solution and scrubbing entire interior with a germicidal solution.

1.16 TEMPORARY WATER SERVICE
A. The Contractor shall provide temporary water service. Provide all extensions thereof required for work and remove such extensions at completion of work, restoring water piping to condition existing at start of work. Use care to prevent water waste. Maintain valves, connections, hoses, in good condition.

1.17 TEMPORARY FIELD OFFICE
A. The Contractor shall provide and maintain a temporary office or trailer on the job site. This office shall be equipped with plan table, plan files, and enclosed filing space for shop drawings, meeting notes, and other pertinent information of importance to the job. Office shall be located on site where directed and removed when work is complete. Provide electric light, and heat connected to utility systems. Move temporary office inside new building when space is adequately enclosed.

1.18 TEMPORARY ELECTRIC SERVICE
A. The Contractor shall provide temporary connection to the local lighting and power supply in accordance with the Utility Company's requirements and shall extend lines to central distribution points not more than 100 feet apart on each floor within the building as directed by the Architect. All appurtenances including poles, boxes and anchorage shall be installed by the Contractor.
B. Service furnished by the General Contractor to each distribution plant shall be 110 volts, single phase, 60 cycle for light and 208 volts, 3 phase for power, of capacity for the anticipated connected loads, fused in a convenient box.
C. The General Contractor shall also provide general illumination in all storage areas, corridors, toilets and stairwells.
D. Each Subcontractor requiring additional wiring, varied or increased service wiring for his construction needs etc., shall make his own arrangements for same with the Contractor and shall be required to assume the cost of same.

1.19 TEMPORARY HEATING
A. The Contractor shall provide at his own expense, temporary enclosure, fuel and equipment necessary for heating materials incorporated in his work, for protection of his work before and after building is enclosed, and before permanent heating system can be operated to heat the respective space.
B. After building is enclosed and permanent heating plant is in operation, or when directed, the Owner shall provide, sufficient heating capacity to maintain all enclosed areas at a minimum temperature required to perform the various finishing operations but in no case to be allowed to go below a temperature which would be harmful to previously installed work. Temporary heat will be required when temperature at night falls below 40 degrees F.
C. Use permanent equipment when warranted, before the building is accepted by the Owner. Immediately prior to final acceptance of building, service, repair and rehabilitate all permanent equipment and facilities used for temporary work so that they shall be in perfect condition. The cost of fuel consumed by the permanent plant for temporary heating shall be paid by the Contractor.

1.2 GUARANTEE
A. Neither the final certificate of payment nor any provision in the Contract Documents no partial or entire occupancy of the premises by the Owner shall constitute an acceptance of work not done in accordance with the Contract Documents or relieve the Contractor of liability in respect to any warranties or responsibility for faulty materials or workmanship, and no error or oversight in superintendence, inspection, or issuance of any certificate, or delay in discovery or rejection of defective or improper work or materials by the Owner shall relieve the Contractor of any of its obligations under this Agreement.
B. In addition to specific guarantees required by the Contract for work to be performed, Contractor shall guarantee all work to be performed and all materials to be furnished under contract against defects in materials or workmanship for a period of 1 year from date of substantial completion unless longer guarantees are specified.
C. In case of work performed by Subcontractors and where guarantees are required, the Contractor shall secure warranties from said Subcontractors and shall deliver copies of same to the Owner upon completion of work. Delivery of said guarantees shall not relieve contractor from any obligation assumed under any other provision of the Contract.
D. Should any defects develop in aforesaid work, within specified periods, due to faults in materials and/or workmanship, the Contractor shall make repairs and perform all necessary work to correct defective work, as approved by the Owner. The Contractor shall commence such repairs, corrective work within 5 days after written notice to Contractor by Owner, and the Contractor shall bear all costs in connection herewith. The Owner shall give notice of observed defects with reasonable promptness.
E. In case Contractor fails to do work so ordered, Owner may have work done by others, and the Owner may charge cost thereof against monies retained pursuant to the contract. If said retained monies are insufficient to pay such costs, or if no money is available, Contractor and his sureties shall pay Owner the entire balance of the cost of such work.

1.21 CLEANING
A. The Contractor shall keep premises free from accumulations and waste materials or rubbish. At completion of work, the Contractor shall remove all rubbish and waste materials from and about building and all tools, construction equipment, scaffolding and surplus materials and leave work "broom clean". In case of dispute, Owner may remove rubbish and charge and allocate such cost to several Contractors as Architect shall determine to be just.
B. The Contractor shall repair any damage to streets, pavement, sidewalks, and adjacent premises incurred by reason of his performance to the contract, and restore to operating condition any sewers, drains, and other facilities used by Contractor.
C. Each Mechanical and Electrical trade shall be responsible for keeping their own stock of materials and equipment stored on the premises in a neat and orderly manner. Packing materials, crates, waste and construction debris shall be maintained in compact piles.
D. The words "clean up" are defined as a complete cleaning of the exterior and interior include, but not limited to the following; window and storefront glass and frames, damp cloth wiping of dust from cabinets, countertops, stairways, etc., vacuuming of carpeted areas, and sweeping of all other floor surfaces.

1.22 WORK RESTRICTIONS
A. Nonsmoking Building: Smoking is not permitted within the building or within 25 feet (8m) from entrances, operable windows, or outdoor air intakes.

PART II PRODUCTS
Not used

PART III EXECUTION
Not used

END OF SECTION C01040

SECTION - C01050: FIELD ENGINEERING

PART I - GENERAL

1.1 SECTION INCLUDES
A. Survey and Field Engineering
B. Submittals and Quality Control
C. Project Record Documents

1.2 QUALITY ASSURANCE
A. Surveyor: Employ experienced Civil Engineer or registered Land Surveyor to establish layout, lines, levels and grades, and check Contractor's placement of batter boards, grades stakes, and other controls, and to verify same from time to time during progress of construction of Work. Engineer or Surveyor shall be registered in the state of this project.
B. Measurements: Before ordering materials or doing any work, verify measurements at site and check same against Drawings. No extra charge will be allowed on account of differences between actual dimensions and measurements shown on Drawings. Submit any differences found to Owner for resolution before proceeding with Work.

1.3 EXECUTION
A. Inspection: Verify locations of survey control points prior to starting work. Promptly notify Owner of any discrepancies discovered.
B. Survey Control Points: Protect survey control points prior to starting site work; preserve permanent reference points during construction. Make no changes without prior written notice to Owner. Promptly report to Owner the loss or destruction of any reference point or relocation required because of changes in grades or other reasons. Replace dislocated control points based on original survey control.
C. Survey Requirements:
1. Establish a minimum of two permanent bench marks on site, referenced to established control points. Record locations, with horizontal and vertical data, on Project Record Documents.
2. Establish lines and levels, locate and lay out by instrumentation and similar appropriate means:
a. Site improvements, including pavements; stakes for grading, fill and topsoil placement; and utility locations, slopes, and invert elevations.
b. Grid or axis for structures.
c. Building foundation, column locations, and ground floor elevations.

PART II PRODUCTS
Not used

PART III EXECUTION
Not used

END OF SECTION C01050

SECTION - C01300: SUBMITTALS

PART I - GENERAL

1.1 REQUIREMENTS INCLUDED
A. Procedures
B. Schedule of Values - Part of Contract Proposal
D. Shop Drawings
C. Product Data

1.2 Procedures
A. Refer to the Contractor's Contract for required procedures.

1.3 CONSTRUCTION PROGRESS SCHEDULES
A. Construction Schedules: Refer to the contract regarding required schedules.
B. Sequence of Construction: Show complete sequence of construction by activity, identifying work of separate stages and other logically grouped activities.
C. Percentage of Completion: Show projected percentage of completion for each item of work as of time of each Application for Payment.
D. Progress Reports: The Contractor shall, on Friday of each week, complete and make distribution of a synopsis of job progress by trade category with distribution as directed by Owner. The form shall be completed by the Contractor's job superintendent, complete with a "Remarks" space for written communication of minor job problems and requests which can be made under field conditions.

1.4 SHOP DRAWINGS
A. With few exceptions, shop drawings will not be required by the Architect or Owner. The General Contractor may require them at their discretion. The Owner, however, will require information, data, specifications, or procedures for all material and specifications of procedures for all materials and equipment to be submitted by the G.C. at closeout.

1.5 PRODUCT INFORMATION
A. General: Submit only pages which are pertinent; mark each copy of standard printed data to identify pertinent products, referenced to Project Manual Section and Article number. Show reference standards, performance characteristics, and capacities; wiring and piping diagrams and controls; component parts; finishes; dimensions; and required clearances.
B. Modifications: Modify manufacturer's standard schematic drawings and diagrams to supplement standard information and to provide information specifically applicable to the work. Delete information not applicable.
C. Copies Required: Submit number Contractor requires, plus two copies which will be retained by Owner.

PART II PRODUCTS
Not used

PART III EXECUTION
Not used

END OF SECTION C01300

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CONSULTANT PROJECT # LAX22-0129-01
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SHEET
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A-901

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SECTION - C01410: TESTING LABORATORY SERVICES

PART I - GENERAL

1.1 SECTION INCLUDES
A. Owner supplied third party inspections, coordinated by the General Contractor.
B. Review and become familiar with "Third Party Inspections" as part of the FSU Super Package under the General Contractor's contract..

1.2 RELATED SECTIONS
A. General Conditions: Inspections, testing, and approvals required by public authorities
B. Testing Adjusting and Balancing of Systems
C. Contract Closeout: Record Documents

1.3 CONTRACTOR RESPONSIBILITIES
A. Cooperate with laboratory personnel, and provide access to Work.
B. Provide incidental labor and facilities to provide access to work to be tested, to obtain and handle samples at the site or source of products to be tested, to facilitate tests and inspections, and for storage and curing of test samples.
C. Notify Owner and laboratory 24-hours prior to expected time for operations requiring inspection and testing services.

PART II - PRODUCTS
Not Used

PART III - EXECUTION
Not Used

END OF SECTION C01410

SECTION - C01510: TEMPORARY UTILITIES

PART I - GENERAL

1.1 SECTION INCLUDES
A. Temporary Electricity and Lighting
B. Temporary Heating
C. Temporary Water
D. Temporary Sanitary Facilities
E. Temporary Fire Protection
F. Payment

1.2 TEMPORARY ELECTRICITY AND LIGHTING
A. Provide wiring, fuses, disconnect switches, safety devices, junction boxes, panel boxes, ground fault protections, and transformer if required, in connection with use of temporary electrical service for lighting and power during construction. All items and installations are to conform to the requirements of the National Electric Code, and "Occupational Safety and Health Act." Observations by the Owner, his agents, or any recognized agency indicating failure to comply with code requirements shall be cause for immediate suspension of job site operations by the Contractor until the system is in full compliance. No extension to the Contract Time shall be allowed for such suspension of job site operations.

1.3 TEMPORARY HEATING
A. Requirement: Provide, pay for and maintain, all temporary heating facilities required during the progress of the Work to protect materials, finished work and equipment against injury from dampness and cold. Temporary heat shall be required when the outside temperature is low enough to damage or affect in any way the performance or quality of any product or material being stored in the building, in any temporary storage area, or any material incorporated into the work. Temporary heat shall also be required when the outside temperature is low enough to significantly slow or hamper the effectiveness of workmen on the job.
B. Use of Permanent Heating System: Permanent heating system may be used for this purpose after completion, provided Contractor obtains written permission from Owner, and agrees to pay all charges for fuel, attendance, maintenance, repair and replacement, if necessary, to the equivalent of new conditions, including replacement of filters and cleaning of grilles and diffusers.

1.4 TEMPORARY WATER
A. Provide temporary storage tanks, piping, valves, fittings, hose and hose connections as required for use of water during construction and testing.

1.5 TEMPORARY SANITARY FACILITIES
A. Furnish, install and maintain ample sanitary facilities for use of workmen of all trades engaged in work under the contract. Temporary toilets shall be constructed at time work is commenced and shall be subject to applicable City Ordinances, Health Department requirements and Rules and Regulations of governing authorities by Code or otherwise.

1.6 TEMPORARY FIRE PROTECTION
A. Observe and enforce compliance by all trades engaged in work under the contract with requirements of City, County, State, Federal and Insurance Underwriter's regulations to minimize fire hazards incidental to the work. Provide operable fire extinguishing devices in well-marked, accessible locations distributed throughout the project in compliance with governing codes and ordinances.

1.7 ARRANGEMENT AND PAYMENT
A. The Contractor shall make all necessary arrangements and shall pay for water, electric power, gas, and sewage service during the construction of the building as may be required for use of his own forces and those of his subcontractors, and as required by them until acceptance of the work by the Owner.

PART II - PRODUCTS
Not Used

PART III - EXECUTION
Not Used

END OF SECTION C01510

SECTION - C01520: SECURITY

PART I - GENERAL

1.1 WATCHMAN SERVICE
A. Contractor may employ and pay for watchmen, or a watchmen's service, as he deems necessary to protect his own interests, and he shall be responsible for and pay for losses or damages to the Owner's materials or other property as a result of theft, mysterious disappearances or intrusions by strangers.

PART II - PRODUCTS
Not Used

PART III - EXECUTION
Not Used

END OF SECTION C01520

SECTION - C01530: PROJECT IDENTIFICATION AND SIGNS

PART I - GENERAL

1.1 PROJECT SIGN FRAME
A. Within seven days of date of notice to proceed, furnish and erect one (1) project identification sign, in a location directed by the Owner: Sign shall consist of 4x4 inch posts supporting a 4'-0" high by 8'-0" wide sheet of 3/4 inch thick exterior A/C plywood. Locate post 1'-0" from ends of plywood; 6'-0" centers. Bottom of plywood shall be at 4'-0" above grade.
B. Framework shall receive a fabric sign to be furnished by Owner and installed by General Contractor. Installation of sign will be by wrap and staple method; long staples, closely spaced on back side.

1.2 CONTRACTOR SIGNS AND ADVERTISING
A. Only the General Contractor may have a sign, at Contractor's expense, if so desired. No other free-standing signs or advertising of any kind other than "warning" signs and notices required by law, will be permitted on the site or about the premises.

PART II - PRODUCTS
Not Used

PART III - EXECUTION
Not Used

END OF SECTION C01530

SECTION C01570 - EROSION AND SEDIMENTATION CONTROL

PART I - GENERAL

1.1 NOTICE OF INTENT
A. Contractor and Owner shall jointly submit an EPA Notice of Intent (NOI) prior to construction.

PART II - PRODUCTS

2.1 PRODUCTS
A. Grass: Materials for seeding and sodding shall conform to Section 02905.
B. Fertilizer: Use commercial grade fertilizers to insure germination and growth. Analysis by weight shall be 16-4-8 or 15-5-10 for Nitrogen, Phosphoric Acid and Potash.
C. Silt Fence: Lundin "Silt Buster", Mirafi "Envirofence" or approved equal.
D. Straw Bales: Standard rectangular hay bales bound by baling wire
E. Sediment Traps: Standard manufacture designed to fit the intended inlet.

PART III - EXECUTION

3.1 GENERAL
A. Contractor shall keep disturbed areas to a minimum required to adequately perform the work. At all times the Contractor shall maintain the site in such a manner that minimizes erosion of the site. The execution of work under this section shall be in conformance with the NPDES rulings and the site Storm Water Pollution Prevention Plan.

3.2 SEEDING
A. Disturbed portions of the site and stockpile areas shall be seeded within 14 days if the phasing of the construction operations are anticipated to leave those portions of the areas unworked for 21 days or more.
B. Seeding operations shall be performed in accordance to the state's Standard Specifications, using the materials specified and the season in which the seeding operations are to occur.
C. Seeded areas shall be maintained until the project is accepted by the Owner. Maintenance shall include but not be limited to watering, fertilizing, reseeding, mowing and erosion repair as may be required. Grass shall be cut when the average height of the grass reaches 6 inches. Clippings may be mulched back into the seeded areas.

3.3 TEMPORARY AND PERMANENT SWALES
A. Description
1. Temporary and permanent drainage swales shall be provided as required to carry drainage away from the work area to an approved outfall point.
2. Unless otherwise shown on the drawings, swales shall be earthen "V" shaped channels graded to a sufficient depth and slope to carry the anticipated runoff, but at least 2 feet deep with a slope of 0.1 percent.
3. Swales not designated to remain in place at the completion of the contract shall be cleaned of any muck, debris and other unsuitable material and filled with approved fill before final grading operations begin.
4. Swales shall have erosion control barriers as required.
5. All permanent swales shall be sodded to a minimum width of 10 feet on either side of the centerline of the swale.
B. Maintenance
1. During the course of construction all temporary swales constructed for this contract shall be maintained so as to allow proper drainage from the construction area. Before Contractor leaves the site at the end of construction, all temporary swales to remain shall be placed in good working condition.
2. Contractor shall work with other contractors at the site in maintaining existing swales and ditches.
3. Where necessary for access to the work areas, adequately sized culverts shall be installed and maintained to provide the access without disturbing the site drainage.
4. Care shall be taken not to rut and damage sodded swales. Damaged swales shall be repaired immediately.
5. Keep sodded swales mowed.

3.4 DRAINAGE DITCHES
A. Drainage ditches shall be hydromulched immediately upon final grading.
B. Erosion of the banks of the drainage ditches shall be repaired immediately and re-stabilized.
C. Sediment barriers shall be placed at intervals along the ditch as shown on the plans and as necessary to help trap sediment on the site. Sediment and other debris trapped by the barriers shall be removed on a daily basis as needed.
D. Ditch side slopes shall not be steeper than 3 feet horizontal to 1 foot vertical.
E. Maintenance of the ditches during construction shall include but not be limited to mowing, re-grading, sediment removal, re-hydromulching, bank repair and debris removal.
F. Sediment removed from the ditches may be respread on the site as directed by the Owner.

3.5 FILL AND CUT SLOPES
A. Fill slopes in all cases shall be no steeper than 3:1 unless specifically stated on the plans or approved by the Owner's soils engineer.
B. When cut slopes exceed 2:1 for depths over 3 feet, proper bracing and shoring per OSHA requirements shall be used and maintained.
C. For permanent slopes, cut or fill, between 2:1 and 10:1, erosion protection shall be provided with hydromulching, sodding, seeding, or other method as approved.

3.6 SEDIMENTATION BASINS
A. Description
1. Sedimentation ponds shall be provided where designated on the plans.
2. All drainage from cleared areas shall be routed through the sedimentation basin.
3. Contractor will be responsible for the operation and maintenance of the pond during construction.
B. Maintenance
1. Contractor shall be responsible for maintaining the pond and the outfall and sediment retarding structure in good working condition throughout the time the pond is to be in operation.
2. When sediment and debris fill the pond to over 1/3 its designed capacity, the pond shall be cleaned out.

3.7 EROSION CONTROL BARRIERS
A. Erosion control barriers shall be provided at intervals along swales and ditches as shown on the drawings and as necessary to meet the requirements of the Storm Water Pollution Prevention Plan.
B. The barriers shall be silt fence or hay bales placed as shown on the drawings and details.
C. Barriers shall be maintained in good working condition and replaced when damaged.

END OF SECTION C01570

SECTION - C01700: CONTRACT CLOSEOUT

PART I - GENERAL

1.1 REQUIREMENTS
A. All the operations and/or documents described in this section shall be completed and/or delivered to the project manager prior to acceptance of the work and final payment.

1.2 CLEANING
A. General: Each Contractor or subcontractor shall remove and dispose of all tools, equipment, surplus material and rubbish pertaining to his work, and cooperate in final cleaning by general contractor.
B. Final Cleaning: Thoroughly clean the entire project upon completion of the work, including but not necessarily limited to: Power sweeping the parking lot, cleaning construction debris from adjacent exterior areas, polishing all metals, cleaning all plumbing fixtures and accessories, cleaning all stainless steel fixtures and equipment, removing all labels and layout marks, cleaning all windows and mirrors, cleaning all floors, and in general, removing all evidence of the construction process, to leave the entire premises in clean, new operating condition.
C. Equipment and Systems: The attention of the Contractor is directed to the fact that scale, metal shaving, oil, pipe dope and every impurity will tend to accumulate at restricted points and impede flow. Every precaution shall therefore be observed in the assembly of the systems to remove and exclude foreign matter and upon completion of erection, a thorough cleaning program shall be observed. The cleaning operation shall be accomplished after all parts of the systems are in place but before any are insulated or furred in. Remove all labels, dirt, paint, grease and stains from all exposed devises, equipment and fixtures installed under this contract. Clean and polish all equipment upon completion of the work to present a first class job suitable for occupancy.

1.3 AFFIDAVITS
A. Provide "Full Waiver Final Lien Release" form, "Affidavit of Completion and Warranty" as required in the contract.

1.4 OPERATING AND MAINTENANCE DATA:
A. Complete mechanical equipment operating manuals and instructions, specification data, diagrams and charts as specified in Division 15. Include the name, address and 24 hour telephone number of service representatives for the plumbing, HVAC, and electrical systems. Include diagrams and wiring diagrams of contractor-furnished equipment. Provide this information to the on site Operator and CFA Facilities.

1.5 SYSTEMS DEMONSTRATIONS
A. Each separate system with its various components shall be operated by this contractor or his subcontractors for a responsible length of time to demonstrate the performance of all equipment and piping in accordance with the true intent and purpose of the plans and specifications. All necessary adjustments shall be made to the satisfaction of the Owner.

1.6 GUARANTEES AND WARRANTIES
A. Certain certificates of warranties and guarantees shall be required. These guarantees and warranties, along with duly executed instruments properly assigning said guarantees and warranties shall be forwarded to the Owner, bound in a single volume, grouped by trade and properly indexed. These items shall be forwarded prior to Request for Final Payment. Contractor is directed to examine all technical sections of the specifications for the required documents. The following list is included for the Contractor's convenience and does not necessarily include all required documents:
1. General contractor's written guarantee stating that the work in its entirety is guaranteed for a period of one year from the date of substantial completion against all defects in materials and workmanship.
2. Roofing installer's written guarantee to the Contractor stating that all work performed under said subcontract is guaranteed for a period of one (1) years against all defects in materials and workmanship. In the event the work is performed by the general contractor's own forces, this guarantee shall be from the general contractor to the Owner.
3. Written termite guarantee stating that soil poisoning treatment is guaranteed for a period of five (5) years, and that said treatment is renewable on a year to year basis by contract with the Owner.
4. Manufacturer's warranties on new air conditioning units and any other manufacturer's equipment warranties, all duly transferred to the Owner.
5. All certificates such as Fire Supression systems, fire protection, certificates of occupancy, etc.

1.7 OPENING DAY CONTRACTOR PERSONNEL
A. Owner shall notify Contractor in writing of his scheduled "Opening Day" for business. Contractor shall arrange for his job superintendent to be present at the site to assist the Owner from 9:00 a.m. thru 2:00 p.m. on that day. In addition, Contractor shall arrange for his mechanical (HVAC), plumbing and electrical subcontractor's job superintendents to be on call to the project during those same hours.

PART II - PRODUCTS
Not Used

PART III - EXECUTION
Not Used

END OF SECTION C01700

SECTION - C01720: PROJECT RECORD DOCUMENTS

PART I - GENERAL

1.1 DESCRIPTION
A. Related Drawings, Product Data and Samples

1.2 MAINTENANCE OF DOCUMENTS
A. Maintain one copy of:
1. Contract Drawings - As Builts
2. Specifications
3. Addenda
4. Approved Shop Drawings
5. Supplemental Instructions
6. Change Orders
7. Other Modifications of Contract
8. Field Test Records
9. Correspondence File
B. Store documents in approved locations, apart from documents used for construction.
C. Maintain documents in clean, dry, legible condition.
D. Do not use record documents for construction purposes.
E. Make documents available at all times for inspection by Architect/Engineer and Owner.

1.3 MARKING DEVICES
A. Provide felt marking pen for marking. Make notations in "red."

1.4 RECORDING
A. Label each document "PROJECT RECORD" in 2 inch high printed letters.
B. Keep record documents current.
C. Do not permanently conceal any work until required information has been recorded.
D. Contract Drawings. Legibly mark to record actual construction:
1. Factory and field seams in membrane, dimensionally located.
2. Field changes of dimension and detail.
3. Changes made by Supplemental Instruction or Change Order.
4. Details not on original Contract Drawings.
E. Project Manual and Addenda. Legibly mark-up each section to record:
1. Manufacturer, trade name, catalog number and supplier of each product and item of equipment actually installed.
2. Changes made by Supplemental Instruction of Change Order.
3. Other matters not originally specified
F. Project Submittals: Maintain as record documents. Legibly mark-up approved shop drawings to show changes made after review.

1.5 SUBMITTAL
A. At completion of project, deliver record documents to Owner.
B. Accompany submittal with transmittal letter, in duplicate containing:
1. Date
2. Project title and number.
3. Contractor's name and address.
4. Title and number of each record document.
5. Certification that each document as submitted is complete and accurate.
6. Signature of Contractor, or his authorized representative.
7. G.C. to provide PVC tube and set of record drawings.

PART II - PRODUCTS
Not Used

PART III - EXECUTION
Not Used

END OF SECTION C01720

DIVISION 02 - EXISTING CONDITIONS

SECTION - C02000: SITE WORK
See Civil drawings for Sitework Specifications.
C02200 DEMOLITION
C02205 UTILITIES - RELOCATE
C02300 CLEARING, EXCAVATION & GRADING
C02500 SITE UTILITIES
C02600 STORM DRAINAGE
C02700 PAVEMENT SURFACES
C02850 MISCELLANEOUS SITE IMPROVEMENT

END OF SECTION C02000

SECTION - C02300: SUBSURFACE INVESTIGATION

PART I - GENERAL

1.1 GENERAL
A. Geotechnical Investigation (Sub-surface Soils Tests) for the project site has been performed and a report of that investigation has been completed. A copy of the investigation report is part of the required download documents given to the General Contractor.

1.2 SUBSURFACE INFORMATION
A. Log of borings indicates materials penetrated at specific locations. Owner and/or Architect assume no responsibility for any conclusions or interpretations made by Contractor related to information included in the Report. Should Contractor require additional information concerning sub-surface conditions, he may without cost to Owner, make additional investigations. Should additional investigations produce information different from that in Soil Report, notify Owner in writing.

1.3 REQUIREMENT
A. Contractor read and otherwise become completely familiar with contents of Soil Report, including but not limited to its recommendations for preparation of subsoil, bases, sub-bases and fill and construction of building foundations, parking and paving. Provide building foundations in compliance with recommendations in Report. Should discrepancy be found between the requirements of Soil Report and the drawings and/or specifications, notify Architect in writing prior to beginning Work.
B. Structural Engineer to state applicable data for final design from the soil report. Reference drawings for details.

PART II PRODUCTS
Not used

PART III EXECUTION
Not used

END OF SECTION C02300

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STATE OF MONTANA
REGISTERED ARCHITECT
11/12/2025

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HELENA, MONTANA 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
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DATE 10/20/2025
DRAWN BY M.M.O./ K.G.

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SHEET
SPECIFICATIONS

SHEET NUMBER
A-902

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SECTION - C02361: TERMITE CONTROL

PART I - GENERAL

1.1 SUMMARY
A. All products and services shall be provided by the Owner's National Account Vendor, refer to National Accounts List.
B. This Section includes the following:
1. Soil treatment with termiticide.
2. Wood treatment with borate.
3. Metal mesh barrier system.

1.2 RELATED SECTIONS
A. Rough Carpentry: SECTION C06100
B. Flexible and Sheet Metal Flashing: SECTION C07600

1.3 SUBMITTALS
A. Product Data: For each type of product indicated. Include the EPA-Registered Label.
B. Product certificates.
C. Soil Treatment Application Report: Include the following:
1. Date and time of application.
2. Moisture content of soil before application.
3. Brand name and manufacturer of termiticide.
4. Quantity of undiluted termiticide used.
5. Dilutions, methods, volumes, and rates of application used.
6. Areas of application.
7. Water source for application.
D. Wood Treatment Application Report: Include the following:
1. Date and time of application.
2. Brand name and manufacturer of borate.
3. Quantity of undiluted borate used.
4. Dilutions, methods, volumes and rates of application used.
5. Areas of application
6. Schedule of inspections for one-year from date of Substantial Completion.

1.4 QUALITY ASSURANCE
A. Installer Qualifications: A specialist who is licensed according to regulations of authorities having jurisdiction to apply termite control treatment and products in jurisdiction where Project is located.
B. Regulatory Requirements: Formulate and apply termiticide according to the EPA-Registered Label.

1.5 WARRANTY
A. Special Warranty: Manufacturer's standard form, signed by Applicator and Contractor certifying that termite control work, consisting of applied soil termiticide treatment, will prevent infestation of subterranean termites. If subterranean termite activity or damage is discovered during warranty period, re-treat soil and repair or replace damage caused by termite infestation.
1. Warranty Period: Five years from date of Substantial Completion.

1.6 MAINTENANCE SERVICE
A. Continuing Service: Beginning at Substantial Completion, provide 12 months' continuing service including monitoring, inspection, and re-treatment for occurrences of termite activity. Provide a standard continuing service agreement. State services, obligations, conditions, and terms for agreement period; and terms for future renewal options.

PART II - PRODUCTS

2.1 TERMITE CONTROL COMPANIES
A. See National Account Schedule

2.2 COMPONENTS
A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1. Termiticides:
a. Aventis Environmental Science USA LP; Termidor
2. Bayer Corporation; Premise 75
3. Dow AgroSciences LLC; Dursban TC, Equity
b. FMC Corporation, Agricultural Products Group; Talstar, Prevail FT, Torpedo
4. Syngenta; Demon TC
5. Borates:
a. Nisus Corp.; Bora-Care, Jecta.
b. NovaGuard Technologies, Inc.; Armor-Guard, Shell-Guard.
c. U.S. Borax Inc.; Tim-Bor.
6. Metal Mesh Barrier System:
a. TERMI-MESH, Inc.; TERMI-MESH

2.3 SOIL TREATMENT
A. Termiticide: Provide an EPA-registered termiticide complying with requirements of authorities having jurisdiction, in an aqueous solution formulated to prevent termite infestation. Provide quantity required for application at the label volume and rate for the maximum termiticide concentration allowed for each specific use, according to product's EPA-Registered Label.

2.4 WOOD TREATMENT
A. Borate: Provide an EPA-registered borate complying with requirements of authorities having jurisdiction, in an aqueous solution for spray application and a gel solution for pressure injection, formulated to prevent termite infestation in wood. Provide quantity required for application at the label volume and rate for the maximum diffusible borate concentration allowed for each specific use, according to product's EPA-Registered Label.

2.5 METAL MESH BARRIER SYSTEM
A. Product: Subject to compliance with requirements, provide "TERMI-MESH" by TERMI-MESH, Inc.
B. Stainless-Steel Mesh: 0.025-by-0.018-inch (0.64-by-0.45-mm) mesh of 0.08-inch- (2.0-mm-) diameter, stainless-steel wire, Type 316.

PART III - EXECUTION

3.1 PREPARATION
A. General: Remove all extraneous sources of wood cellulose and other edible materials such as wood debris, tree stumps and roots, stakes, formwork, and construction waste wood from soil within and around foundations.
B. Soil Treatment Preparation: Loosen, rake, and level soil to be treated except previously compacted areas under slabs and footings. Termiticides may be applied before placing compacted fill under slabs if recommended in writing by termiticide manufacturer.

3.2 APPLYING SOIL TREATMENT
A. Application: Mix soil treatment termiticide solution to a uniform consistency. Provide quantity required for application at the label volume and rate for the maximum specified concentration of termiticide, according to manufacturer's EPA-Registered Label, to the following so that a continuous horizontal and vertical termiticidal barrier or treated zone is established around and under building construction. Distribute treatment evenly.
1. Slabs-on-Grade and Basement Slabs: Under ground-supported slab construction, including footings, building slabs, and attached slabs as an overall treatment. Treat soil materials before concrete footings and slabs are placed.
2. Foundations: Adjacent soil including soil along the entire inside perimeter of foundation walls, along both sides of interior partition walls, around plumbing pipes and electric conduit penetrating the slab, and around interior column footers, piers, and chimney bases; also along the entire outside perimeter, from grade to bottom of footing. Avoid soil washout around footings.
3. Masonry: Treat voids.
4. Penetrations: At expansion joints, control joints, and areas where slabs will be penetrated.
B. Avoid disturbance of treated soil after application. Keep off treated areas until completely dry.
C. Protect termiticide solution, dispersed in treated soils and fills, from being diluted until ground-supported slabs are installed. Use waterproof barrier according to EPA-Registered Label instructions.
D. Post warning signs in areas of application.
E. Reapply soil treatment solution to areas disturbed by subsequent excavation, grading, landscaping, or other construction activities following application.

3.3 APPLYING BORATE TREATMENT
A. Application: Mix wood treatment borate solution to a uniform consistency. Provide quantity required for application at the label volume and rate for the maximum specified concentration of borate, according to manufacturer's EPA-Registered Label, so that wood framing, sheathing, siding, and structural members subject to infestation receive treatment.
1. Framing : Apply borate solution by spray to bare wood for complete coverage.

3.4 INSTALLING METAL MESH BARRIER SYSTEM
A. Metal Mesh Barrier: Place metal mesh barrier where indicated to provide a continuous barrier to entry of subterranean termites. Fit mesh tightly around pipe or other penetrations, and terminate at slab and foundation perimeters.
1. Install mesh under the perimeter of concrete slab edges and joints after vapor barrier and reinforcing steel are in place, and comply with manufacturer's written installation methods.

END OF SECTION C02361

SECTION - C02831: CHAIN LINK FENCES AND GATES(SECURITY)

PART I - GENERAL

1.1 SUMMARY
A. Provide a 6-foot high chain link fence as may be required by the municipality or required for security reasons.

PART II - PRODUCTS

2.1 BASIC MATERIALS
A. Framework: Schedule 40 steel pipe, standard weight, one piece without joints; ASTM A120.
1. Line Posts: 1.9 inch diameter, length required for 8 feet height.
2. Corner and Terminal Posts: 2.38 inch diameter (min.); size to be determined by use and engineering design. Length as for line posts.
3. Gate Posts: 3.5 inch diameter (min.) for gates 5 feet wide and less and 6.0 inch diameter (min) for gates 5 feet wide and over; size to be determined by use and engineering design. Length as for line posts.
4. Top, Bottom and Brace Rails: 1.66 inch diameter, plain end, sleeve coupled.
5. Gates: 1.66 inch diameter (min.) for gates 5 feet wide and less, and 3 inch diameter (min) for gates 5 feet wide and over, for fittings and truss rod fabrication; size to be determined by engineering design.
B. Fabric: Three inch 9-gauge diamond mesh steel wire, interwoven, top selvage twisted tight, bottom selvage knuckle end closed. Zinc coated; FS RR-F-191 Type I.
C. Fittings: Steel; sleeves, bands, clips, rail ends, tension bars, fasteners and fittings.
D. Concrete: Portland Cement; 2500 psi at 28 days; 3 inch slump; ASTM C94.
E. Caps: Cast steel or malleable iron; sized to post dimension, set screw retained.

3.1 INSTALLATION
A. General: Install framework, fabric, accessories and gates in accord with ANSI/ASTM F567 and accepted shop drawings.
B. Framework:
1. Posts: Space line posts at intervals of 10 feet (max.). Set terminal, gate and line posts plumb, in concrete footings with top of footing 6 inches below finish grade. Footing depth below finish grade: ANSI/ASTM F567.
2. Braces and Rails: Provide top rail through line post tops and splice with 7-inch long rail sleeves. Brace each gate and corner post back to adjacent line post with horizontal center brace rail and diagonal truss rods. Install brace rail, one bay from end and gate posts. Install center and bottom brace rail on corner and gate leaves.
C. Fabric: Stretch between terminal posts or at intervals of 100 feet, whichever is less. Position bottom 2 inches above finished grade. Fasten to top rail, line posts, braces, and bottom tension wire with wire ties 15 inches o.c. max. Attach to end, corner, and gate posts with tension bars and tension bar clips. Install continuous bottom rail between terminal posts.
D. Accessories: Install caps and roof fabric support arms and attach fabric; tension and secure. Install slats in service yard gates only.
E. Gates: Install in accord with manufacturer's instructions, including: hardware and concrete work required for locking devices for center of double gate openings.

END OF SECTION C02831

SECTION - C02920: LANDSCAPING

PART I - GENERAL
LANDSCAPING BY OWNER
SCOPE OF WORK

1.1
A. Landscape work, including the furnishing and installation of the irrigation (sprinkler) system, seeding, sodding, and the planting of trees, shrubs and vines.
B. General Contractor shall furnish and install at applicable depth, 6 inch diameter, schedule 40 PVC sleeves as required to provide access to all site planting areas to receive irrigation system and/or controls. Mark site for exact locations.
C. Top soil: Coordinate with landscaper for distribution or 6 inches of top soil.
D. Recommendation: Include a regional materials preference that calls out a preference for landscaping sourced within 500 miles of the project site and include a reference to the Landscape Standard.

1.2
A. NOTE
Landscape contractor shall be responsible for cleaning the sidewalks and parking lot areas of dirt and debris specifically caused by their portion of this work.
B. General Contractor shall coordinate installation of landscaping with owner's schedule.

PART II - PRODUCTS
Not Used

PART III - EXECUTION
Refer to landscape drawings for landscaping specifications

END OF SECTION C02920

DIVISION 03 - CONCRETE

SECTION - C03000: FOOTING / SLAB ON GRADE
Refer to structural drawings for section C03000.

DIVISION 04 -MASONRY

SECTION - C04810: UNIT MASONRY ASSEMBLIES

PART I - GENERAL

1.1 SUMMARY
A. This Section includes unit masonry assemblies consisting of the following:
1. Concrete masonry units (CMUs).
2. Face brick.

1.2 SUBMITTALS
A. Product Data: For each type of product indicated.
B. Mix Designs: For each type of mortar and grout. Include description of type and proportions of ingredients.

1.3 RELATED WORK
A. Structural Steel and Miscellaneous Steel: C05000 (See Structural Drawings)
B. Flexible and Sheet Metal Flashings: C07600

1.4 PROJECT CONDITIONS
A. Cold-Weather Requirements: Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen substrates. Remove and replace unit masonry damaged by frost or by freezing conditions. Comply with cold-weather construction requirements contained in ACI 530.1/ASCE 6/TMS 602.
B. Hot-Weather Requirements: Comply with hot-weather construction requirements contained in ACI 530.1/ASCE 6/TMS 602.

PART II - PRODUCTS

2.1 FACE BRICK - C04060
A. Manufactures:
1. See National Account and Exterior Finish schedules
B. Colors, Textures and Patterns:
1. Exposed Masonry Units: As selected from manufacturer's full range.
C. General: Provide shapes indicated and as follows
1. For ends of sills and caps and for similar applications that would otherwise expose unfinished brick surfaces, provide units without cores or frogs and with exposed surfaces finished.
2. Provide special shapes for applications where shapes produced by sawing would result in sawed surfaces being exposed to view.
D. Face Brick: ASTM C 216, Grade SW, Type FBS
1. Unit Compressive Strength: Provide units with minimum average net area compressive strength of 3000 psi (20.7 MPa).
2. Initial Rate of Absorption: Less than 30 g/30 sq. in. (30 g/194 sq. cm) per minute when tested per ASTM C 67.
3. Efflorescence: Provide brick that has been tested according to ASTM C 67 and is rated "not effloresced."
4. Size: Modular 2-5/8-inches x 3-5/8-inches x 7-5/8-inches

2.2 CONCRETE MASONRY UNITS (CMUs) - C04220
A. Shapes: Provide special shapes for lintels, corners, jambs, sashes, movement joints, headers, bonding, and other special conditions.
B. Integral Water Repellent: Provide units made with liquid polymeric, integral water-repellent admixture that does not reduce flexural bond strength for exposed units. Required for split-face CMU.
1. Available Products:
a. Addiment Incorporated; Block Plus W-10.
b. Grace Construction Products, a unit of W. R. Grace & Co. - Conn.; Dry Block.
c. Master Builders, Inc.; Rheopel.
C. Split Face CMU: Split-faced block pre-sealed with a silicone based coating.

2.3 MORTAR AND GROUT MATERIALS
A. General: Do not use admixtures, unless otherwise indicated.
1. Do not use calcium chloride in mortar or grout.
2. Limit cementitious materials in mortar for exterior and reinforced masonry to Portland cement and lime.
B. Portland Cement: ASTM C 150, Manufacturer: Holcim - Type I or II, except Type III may be used for cold-weather construction. Refer to finish schedule for color.
1. Alternate Manufacturer: Brixment
C. Hydrated Lime: ASTM C 207, Type N.
D. Aggregate for Mortar: ASTM C 144.
1. Colored-Mortar Aggregates: Natural sand or crushed stone of color necessary to produce required mortar color.
E. Aggregate for Grout: ASTM C 404.
F. Cold-Weather Admixture: Nonchloride, noncorrosive, accelerating admixture complying with ASTM C 494/C 494M, Type C, and recommended by manufacturer for use in masonry mortar of composition indicated.
1. Add cold-weather admixture (if used) at same rate for all mortar that will be exposed to view, regardless of weather conditions, to ensure that mortar color is consistent.
G. Water: Potable.
H. Mortar for Unit Masonry: Comply with ASTM C 270, Proportion Specification.
I. Mortar for Unit Masonry: Comply with ASTM C 270, Property Specification.
1. For masonry below grade or in contact with earth, use Type M or S.
2. For reinforced masonry, use Type S.
3. For mortar parge coats, use Type S.
4. Any regions where type S is required by code (Seismic Design Categories D, E, F). Refer to Structural Drawings for Seismic Design Category information.
5. For exterior, above-grade, load-bearing and non-load-bearing walls and parapet walls; for interior load-bearing walls; for interior non-load-bearing partitions; and for other applications where another type is not indicated, use Type N.
6. Alternates allowed when cost prohibitive, and when approved by Construction Manager
J. Grout for Unit Masonry: Comply with ASTM C 476.
1. Use grout of type indicated or, if not otherwise indicated, of type (fine or coarse) that will comply with Table 1.15.1 in ACI 530.1/ASCE 6/TMS 602 for dimensions of grout spaces and pour height.
2. Provide grout with a slump of 8 to 11 inches (200 to 280 mm) as measured according to ASTM C 143/C 143M.

2.4 REINFORCEMENT
A. Uncoated Steel Reinforcing Bars: ASTM A 615/A 615M or ASTM A 996/A 996M, Grade 60 (Grade 420).
B. Masonry Joint Reinforcement: ASTM A 951; mill galvanized, carbon-steel wire for interior walls and hot-dip galvanized, carbon-steel wire for exterior walls.
1. Wire Size for Side Rods: W1.7 or 0.150-inch diameter.
2. Wire Size for Cross Rods: W1.7 or 0.150-inch diameter.
3. Wire Size for Veneer Ties: W1.7 or 0.150-inch diameter.
4. Spacing of Cross Rods, Tabs, and Cross Ties: Not more than 16 inches (407 mm) o.c.
5. Single-Wythe Masonry: Either ladder or truss type with single pair of side rods.

2.5 TIES AND ANCHORS
A. Materials:
1. Hot-Dip Galvanized, Carbon-Steel Wire: ASTM A 82; with ASTM A 153/A 153M, Class B-2 coating.
2. Steel Sheet, Galvanized after Fabrication: ASTM A 1008/A 1008M, Commercial Steel, hot-dip galvanized after fabrication to comply with ASTM A 153/A 153M.
3. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M, primed.
B. Corrugated Wall Ties: Provide anchors that are a minimum 22 gauge x7/8-inch wide with a corrugation wave length of between 0.3 to 0.5 inches and an amplitude of 0.06 to 0.1 inches. Installed with screws or ring-shanked nails. The fastener shall be located no more than 1/2-inch from the 90-degree bend in the anchor.
C. Wire Ties: Unless otherwise indicated, size wire ties to extend at least halfway through veneer but with at least 5/8-inch (16-mm) cover on outside face. Outer ends of wires are bent 90 degrees and extend 2 inches (50 mm) parallel to face of veneer.
D. Individual Wire Ties: Rectangular units with closed ends and not less than 4 inches (100 mm) wide. Fabricate from 1/4-inch- (6.4-mm) diameter, hot-dip galvanized steel wire.
E. Partition Top Anchors: 0.097-inch- (2.5-mm) thick metal plate with 3/8-inch- (10-mm-) diameter metal rod 6 inches (150 mm) long welded to plate and with closed-end plastic tube fitted over rod that allows rod to move in and out of tube. Fabricate from steel.
F. Rigid Anchors: Fabricate from steel bars 1-1/2 inches (38 mm) wide by 1/4 inch (6.4 mm) thick by 24 inches (600 mm) long, with ends turned up 2 inches (50 mm) or with cross pins.
G. Adjustable Masonry-Veneer Anchors
1. General: Provide anchors that allow vertical adjustment but resist tension and compression forces perpendicular to plane of wall, for attachment over sheathing to wood or metal studs, and as follows:
a. Structural Performance Characteristics: Capable of withstanding a 100-lbf (445-N) load in both tension and compression without deforming or developing play in excess of 0.05 inch (1.3 mm).
2. Screw-Attached, Masonry-Veneer Anchors: Units consisting of a wire tie and a metal anchor section.
a. Wire Ties: Triangular-, rectangular-, or T-shaped wire ties fabricated from 0.25-inch (6.4-mm) diameter steel wire.
3. Seismic Masonry-Veneer Anchors: Units consisting of a metal anchor section and a connector section designed to engage a continuous wire embedded in the veneer mortar joint.
a. Anchor Section: Rib-stiffened, sheet metal plate with screw holes top and bottom, and slotted holes for inserting connector section.
b. Connector Section: Rib-stiffened, sheet metal bent plate; sheet metal clip; or wire tie and rigid extruded vinyl clip designed to engage continuous wire. Size connector to extend at least halfway through veneer but with at least 5/8-inch (16-mm) cover on outside face.
c. Fabricate sheet metal anchor sections and other sheet metal parts from 0.097-inch- (2.5-mm-) thick, steel sheet.
d. Fabricate wire connector sections from 0.25-inch- (6.4-mm) diameter, carbon-steel wire.

2.6 EMBEDDED FLASHING MATERIALS
A. Metal Flashing: Provide metal flashing, where flashing is exposed or partly exposed and where indicated, complying with Division 7 Section "Sheet Metal Flashing and Trim."
1. Metal Drip Edges: Fabricate from stainless steel. Extend at least 3 inches (75 mm) into wall and 1/2 inch (13 mm) out from wall, with outer edge bent down 30 degrees and hemmed.
2. Metal Flashing Terminations: Fabricate from stainless steel. Extend at least 3 inches (75 mm) into wall and out to exterior face of wall. At exterior face of wall, bend metal back on itself for 3/4 inch (19 mm) and down into joint 3/8 inch (10 mm) to form a stop for retaining sealant backer rod.
3. Metal Expansion-Joint Strips: Fabricate from stainless steel to shapes indicated.

2.7 MISCELLANEOUS MASONRY ACCESSORIES
A. Compressible Filler: Premolded filler strips complying with ASTM D 1056, Grade 2A1; compressible up to 35 percent; formulated from neoprene or PVC.
B. Preformed Control-Joint Gaskets: Made from styrene-butadiene-rubber compound, complying with ASTM D 2000, Designation M2AA-805 and designed to fit standard sash block and to maintain lateral stability in masonry wall.
C. Bond-Breaker Strips: Asphalt-saturated, organic roofing felt complying with ASTM D 226, Type I (No. 15 asphalt felt).
D. Weep/Vent Products: Use the following, unless otherwise indicated:
1. Wicking Material: Absorbent rope made from cotton or UV resistant synthetic fiber, 1/4-inch to 3/8-inch (6 mm to 10 mm) in diameter, in length required to provide 2 inch (50 mm) exposure on exterior and 18-inches (450 mm) in cavity between wythes. Use only for weeps.
E. Cavity Drainage System: As manufactured by Mortar Net.

2.8 MASONRY CLEANERS
A. Proprietary Acidic Cleaner: Manufacturer's standard-strength cleaner designed for removing mortar/grout stains from new masonry without damaging masonry. Use product approved for intended use by cleaner manufacturer and manufacturer of masonry units being cleaned.

PART III - EXECUTION

3.1 INSTALLATION, GENERAL
A. Use full-size units without cutting if possible. If cutting is required, cut units with motor-driven saws; provide clean, sharp, unchipped edges. Allow units to dry before laying unless wetting of units is specified. Install cut units with cut surfaces and, where possible, cut edges concealed.
B. Select and arrange units for exposed unit masonry to produce a uniform blend of colors and textures.
C. Comply with tolerances in ACI 530.1/ASCE 6/TMS 602 and with the following:
1. For conspicuous vertical lines, such as external corners, door jambs, reveals, and expansion and control joints, do not vary from plumb by more than 1/8 inch in 10 feet (3 mm in 3 m), 1/4 inch in 20 feet (6 mm in 6 m), or 1/2 inch (12 mm) maximum.
2. For conspicuous horizontal lines, such as lintels, sills, parapets, and reveals, do not vary from level by more than 1/8 inch in 10 feet (3 mm in 3 m), 1/4 inch in 20 feet (6 mm in 6 m), or 1/2 inch (12 mm) maximum.
3. Comply with brick industry standard as well as tolerances in ACI 530-05/ASCE 5-05/TMS 402-05 for masonry expansion joint construction, spacing, and placement.

3.2 LAYING MASONRY WALLS
A. Lay out walls in advance for accurate spacing of surface bond patterns with uniform joint thicknesses and for accurate location of openings, movement-type joints, returns, and offsets. Avoid using less-than-half-size units, particularly at corners, jambs, and, where possible, at other locations.
B. Bond Pattern for Exposed Masonry: Unless otherwise indicated, lay exposed masonry in running bond; do not use units with less than nominal 4-inch (100-mm) horizontal face dimensions at corners or jambs.
C. Built-in Work: As construction progresses, build in items specified in this and other Sections. Fill in solidly with masonry around built-in items.
D. Fill space between steel frames and masonry solidly with mortar, unless otherwise indicated.
E. Fill cores in hollow concrete masonry units with grout 24 inches (600 mm) under bearing plates, beams, lintels, posts, and similar items, unless otherwise indicated.

3.3 MASONRY JOINT REINFORCEMENT
A. General: Install in mortar with a minimum cover of 5/8 inch (16 mm) on exterior side of walls, 1/2 inch (13 mm) elsewhere. Lap reinforcement a minimum of 6 inches (150 mm).
B. Interrupt joint reinforcement at control and expansion joints, unless otherwise indicated.
C. Provide continuity at wall intersections by using prefabricated T-shaped units.
D. Provide continuity at corners by using prefabricated L-shaped units.

3.4 ANCHORING SEISMIC MASONRY VENEERS
A. Anchor masonry veneers to wall framing with seismic masonry-veneer anchors to comply with the following requirements:
1. Fasten screw-attached and seismic anchors through sheathing to wall framing with metal fasteners of type indicated. Use two fasteners.
2. Embed tie sections in masonry joints. Provide not less than 2 inches (50 mm) of air space between back of masonry veneer and face of sheathing.
3. Locate anchor sections to allow maximum vertical differential movement of ties up and down.
4 Space anchors as indicated, but not more than 16 inches (406 mm) o.c. vertically and 24 inches (610 mm) o.c. horizontally with not less than 1 anchor for each 2.67 sq. ft. (0.25 sq. m) of wall area. Install additional anchors within 12 inches (305 mm) of openings and at intervals, not exceeding 36 inches (914 mm), around perimeter.

3.5 FLASHING, WEEP HOLES, CAVITY DRAINAGE, AND VENTS
A. General: Install embedded flashing and weep holes in masonry at shelf angles, lintels, ledges, other obstructions to downward flow of water in wall, and where indicated. Install vents at shelf angles, ledges, and other obstructions to upward flow of air in cavities, and where indicated.
B. Install flashing as follows, unless otherwise indicated:
1. Prepare masonry surfaces so they are smooth and free from projections that could puncture flashing. Where flashing is within mortar joint, place through-wall flashing on sloping bed of mortar and cover with mortar. Before covering with mortar, seal penetrations in flashing as recommended by flashing manufacturer.
2. At lintels and shelf angles, extend flashing a minimum of 6 inches (150 mm) into masonry at each end. At heads and sills, extend flashing 6 inches (150 mm) at ends and turn up not less than 2 inches (50 mm) to form end dams.
3. Install metal drip edges beneath flexible flashing at exterior face of wall. Stop flexible flashing 1/2 inch (13 mm) back from outside face of wall and adhere flexible flashing to top of metal drip edge.
4. Install metal flashing termination beneath flexible flashing at exterior face of wall. Stop flexible flashing 1/2 inch (13 mm) back from outside face of wall and adhere flexible flashing to top of metal flashing termination.
C. Install weep holes in head joints in exterior wythes of first course of masonry immediately above embedded flashing and as follows:
1. Use specified weep/vent products to form weep holes.
2. Space weep holes 24 inches (600 mm) o.c., unless otherwise indicated.
3. Cover cavity side of weep holes with plastic insect screening at cavities insulated with loose-fill insulation.
D. Place cavity drainage material in cavities to comply with configuration requirements for cavity drainage material in Part 2 "Miscellaneous Masonry Accessories" Article.
E. Install vents in head joints in exterior wythes at spacing indicated. Use specified weep/vent products to form vents.
1. Close cavities off vertically and horizontally with blocking in manner indicated. Install through-wall flashing and weep holes above horizontal blocking.

3.6 REINFORCED UNIT MASONRY INSTALLATION
A. Temporary Formwork and Shores: Construct formwork and shores as needed to support reinforced masonry elements during construction.
1. Construct formwork to provide shape, line, and dimensions of completed masonry as indicated. Make forms sufficiently tight to prevent leakage of mortar and grout. Brace, tie, and support forms to maintain position and shape during construction and curing of reinforced masonry.
2 Do not remove forms and shores until reinforced masonry members have hardened sufficiently to carry their own weight and other temporary loads that may be placed on them during construction.

3.7 FIELD QUALITY CONTROL
A. Inspectors: Owner will engage qualified independent inspectors to perform inspections and prepare reports. Allow inspectors access to scaffolding and work areas, as needed to perform inspections.
1. Place grout only after inspectors have verified compliance of grout spaces and grades, sizes, and locations of reinforcement.
B. Testing Agency: Owner will engage a qualified independent testing and inspecting agency to perform field tests and inspections indicated below and prepare test reports:
C. Mortar Test (Property Specification): For each mix provided, per ASTM C 780. Test mortar for mortar air content and compressive strength.

3.8 CLEANING
A. In-Progress Cleaning: Clean unit masonry as work progresses by dry brushing to remove mortar fins and smears before tooling joints.
B. Final Cleaning: After mortar is thoroughly set and cured, clean exposed masonry as follows:
1. Test cleaning methods on sample wall panel; leave one-half of panel uncleaned for comparison purposes.
2. Protect adjacent surfaces from contact with cleaner.
3. Wet wall surfaces with water before applying cleaners; remove cleaners promptly by rinsing surfaces thoroughly with clear water.
4. Bucket-and-brush; hand-cleaning method described in BIA Technical Notes 20.
5. Clean masonry with a proprietary acidic cleaner applied according to manufacturer's written instructions.
6. Clean concrete masonry by cleaning method indicated in NCMA TEK 8-2A applicable to type of stain on exposed surfaces.

END OF SECTION C04810

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STATE OF MONTANA
11/12/2025

CHICK-FIL-A
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HELENA, MONTANA 59602

FSR#05484

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SHEET
SPECIFICATIONS

SHEET NUMBER
A-903

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10-LS-05484-A-903-SPECIFICATIONS

DIVISION 05 - METALS

SECTION - C05000: STRUCTURAL AND MISCELLANEOUS STEEL
Refer to Structural Drawings

SECTION - C05050 BASIC METAL MATERIALS AND METHODS
PART I - GENERAL
A. Refer to Structural Steel drawings

PART II - PRODUCTS
2.1 STRUCTURAL-STEEL MATERIALS
A. Recycled Content of Steel Products: Show preference to products with an average recycled content of steel products so post-consumer recycled content plus one-half of pre-consumer recycled content is not less than 50 percent. Under the condition that there is not a significant increase in price between the products.

2.2 STAINLESS STEEL PANELS
A. Stainless Steel Backsplash at Kitchen Sinks; 18 Gauge, Grade 430 Stainless Steel sheet with No. 4 finish.
1. Install with construction adhesive as shown and at locations shown on Drawings.
2. Minimize joints between sheets.
a. Overalp sheets by 1". Overlapping sheet to have hemmed edge with pre-drilled holes at 12" O.C. Fasten in place with stainless steel 1 1/2" #12 Truss head screws
3. Install T-shaped transition strip to overlap FRP at exposed sheet edge
b. When indicated on drawings, install Z-bar flashing to overlap sink and FRP at bottom edge of panel
c. Provide silicone sealant as specified in Section 07900 at junction of transition strip and flashing at wall

PART III - EXECUTION
B. Refer to Structural Steel drawings

END OF SECTION C05050

SECTION - C05120: STRUCTURAL STEEL
Refer to Structural Drawings

SECTION - C05400: COLD FORMED METAL FRAMING
Refer to Structural Drawings

SECTION - C05514: ALUMINUM LADDERS

PART I - GENERAL

1.1 SECTION INCLUDES
A. Aluminum access ladders.

1.2 RELATED SECTIONS
A. Roof Hatches: SECTION C07720

1.3 REFERENCES
A. AA - Aluminum Association.
B. ASTM B 209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
C. ASTM B 221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
D. OSHA 1910.27 - Fixed Ladders.

1.4 QUALITY ASSURANCE
A. Product Qualification: Product design shall comply with OSHA 1910.27 minimum standards for ladders.

1.5 WARRANTY
A. Manufacturer has responsibility for an extended Corrective Period for work of this Section for a period of 5 years from date of Substantial Completion against all the conditions indicated below, and when notified in writing from Owner, manufacturer shall promptly and without inconvenience and cost to Owner correct said deficiencies. Defects in materials and workmanship

PART II - PRODUCTS

2.1 MANUFACTURERS
A. Acceptable Manufacturer:
1. O'Keeffe's, Inc.,, San Francisco, CA 94124
a. 26% recycled content - pre/post not specified.
2. Alaco Ladder Company, Chino, CA 91710
a. 40-85% post-industrial scrap and 5-15% post-consumer scrap.

2.2 APPLICATIONS/SCOPE
A. Fixed Ladder Design
B. Fixed Ladder Bottom Bracket
C. Bottom floor supported bracket
D. Bottom wall supported bracket
E. Bracket as drawn

2.3 FINISHES
A. Extruded Mill Finish

2.4 FABRICATION
A. Rungs: Not less than 1-1/4 inches (32 mm) in section and 18-3/8 inches (467mm) long, formed from tubular aluminum extrusions. Squared and deeply serrated on all sides.
B. Rungs shall withstand a 1,500 pound (454 kg) load without deformation or failure
C. Channel Side Rails: Not less than 1/8 inch (3 mm) wall thickness by 3 inches (76 mm) wide.
D. Heavy Duty Tubular Side Rails: Assembled from two interlocking aluminum extrusions no less than 1/8 inch (3 mm) wall thickness by 3 inches (76 mm) wide. Construction shall be self-locking stainless steel fasteners, full penetration TIG welds and clean, smooth and burr-free surfaces.

PART III - EXECUTION

3.1 EXAMINATION
A. Coordinate anchorages. Furnish setting drawings, templates, and anchorage structural loads for fastener resistance.

3.2 INSTALLATION
A. Install in accordance with manufacturer's instructions and in proper relationship with adjacent construction.

DIVISION 06 - WOOD AND PLASTICS

SECTION C06000 - CARPENTRY
Refer to Structural Drawings
SECTION C06100 - ROUGH CARPENTRY

Refer to Structural Drawings

SECTION - C06170 WOOD TRUSSES:
Refer to structural drawings.

SECTION - C06200: FINISH CARPENTRY

PART I - GENERAL

1.1 SECTION INCLUDES
A. Interior trim, jambs and millwork
B. Interior architectural wall surfacing.
C. Plastic Laminated casework
D. Factory finishing
E. Hardware, typically furnished by the woodworking manufacturer

1.2 RELATED SECTIONS
Rough Carpentry: SECTION C06100
A. Solid Non-Porous Sheet and Shape Products: SECTION C06410
B. Millwork, Cabinetry and Countertops: SECTION C12390
C.

1.3 REFERENCES
A. Minimum standards for work within this section shall be in conformity with the MANUAL OF MILLWORK, latest edition, Standards of the Architectural Millwork Industry as adopted by the WOODWORK INSTITUTE.

1.4 SUBMITTALS
A. Submit Shop Drawings per SUBMITTALS Section to Owner for acceptance prior to fabrication.

1.5 QUALITY ASSURANCE
A. Performance shall be in accordance with Custom GRADE of the WOODWORK INSTITUTE - MANUAL OF MILLWORK, latest edition.
1. If provisions for the Grade specified are in conflict with, or modified by the drawings and/or specifications, the modifications shall govern.

1.6 QUALIFICATIONS
A. Contractors and their personnel engaged in the work shall be able to demonstrate successful experience with work of comparable extent, complexity and quality to that shown and specified.
1. Fabricator shall be a member/licensee in good standing of the WOODWORK INSTITUTE.
2. Installer shall be a member/licensee in good standing of the WOODWORKING INSTITUTE.

1.7 DELIVERY, STORAGE and HANDLING
A. Deliver all materials only when the project is ready for installation and the general contractor has provided a clean storage area as defined in the MANUAL OF MILLWORK.

1.8 SEQUENCING and SCHEDULING
A. Coordinate all fabrication, delivery and installation work with the general contractor and applicable trades.

PART II - PRODUCTS

2.1 MANUFACTURER
A. The drawings were prepared and portions of this specification written on the basis of using the products of a specific manufacturer. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these specifications.

2.2 COMPONENTS
A. Made with binder containing no urea formaldehyde resin.
B. Paneling: Hardwood veneer plywood paneling: Manufacturer's stock hardwood plywood panels complying with HPVA HP-1, made without urea formaldehyde adhesives.
C. Shelving: Do not use particleboard or MDF that contains urea formaldehyde.
D. Moisture Content: Trim lumber; 12% maximum at time of delivery.
E. Grading and Marking:
1. Softwood Lumber: FS MM-L-0075lf
2. Hardwood Lumber: FS MM-L-00736a

2.3 MATERIALS
A. General Use:
1. General: Work solid stock to patterns shown. Standard shape materials shall conform to patterns indicated in current grading rules for the species.
2. Interior Wood Trim:
a. General Use (Paint): Contractor's option: "C" Select Grade, Sugar Pine, Idaho White Pine, Magnolia, Birch, Redwood or Fir.
b. Natural Finish (Stain): Clear, plain sawn, Yellow pine, AWI Grade 1.
3. Interior Finish Plywood: 3/4 inch paint grade, lumber core, Birch plywood
4. Shelving: 3/4 inch AB Grade Fir plywood with "C" Select Grade Maple edge trim.
5. Wood Benches/Tables: Clear, plain sawn, Yellow pine, AWI Grade 1. 9. Nails: FS FF-N-103c and FF-N- 105a. Stainless steel for Redwood.
6. Screws: FS FF-S-11 lb.
7. Lag Screws and Bolts: FS FF-B-561, type and grade best suited for purpose used.
8. Toggle Bolts: FS FF-B-588b.
B. Cabinets
1. Doors, Panels, Ends, Etc.: 3/4-inch 4B Grade, Group 3, Ponderosa pine, exposed edges banded.
2. Stiles, Rails, Etc.: 3/4-inch C Select Grade, White pine.
3. Shelving and Dividers: 3/4-inch 4B Grade, Group 3, Ponderosa pine; exposed edges banded.
4. Backs: 1/4-inch tempered hardboard.
5. Framing, Blocking, Nailers, Etc.: Pine
6. Filler Strips: Match face materials
7. Hardware: Knape and Vogt, Garcy, Stanley, Hafele; to suit functions. Standards of quality:
a. Hinges: Continuous stainless steel piano hinge, concealed, complete with guides and template for installation.
b. Catches: "Hafele" pressure catch No. 245.54.710.
c. Shelf standards and brackets: Noted on the drawings.
d. Locks: Noted on the drawings.
C. Office Cabinets and Counters:
1. Doors, Panels, Ends, Etc.: 3/4-inch AB grade clear White Pine plywood, exposed edges banded.
2. Stiles, Rails, Etc.: 3/4-inch "C" select grade solid clear White Pine.
3. Shelving and Dividers: 3/4-inch AB Grade clear White Pine plywood; exposed edges banded.
4. Backs: 1/4-inch tempered hardboard.
5. Framing, Blocking, Nailers, Etc.: Pine
6. Hinges: Continuous concealed piano hinges, concealed, complete with guides and template for installation.
7. Filler Strips: Match face materials.
8. Hardware: Hager, Knape and Vogt, Stanley; to suit functions.
9. Catches: "Hafele" pressure catch No. 245.54.710.
10. Shelf Standards and Brackets: Noted on drawings
11. Locks: Noted on drawings
D. Laminated Plastic Assemblies:
1. NEMA standard LD-1; Class 1, high pressure decorative laminates: Color shown on the drawings:
a. Surface Sheet: 0.05 inch thick
b. Backing Sheet: 0.02 inch thick phenolic backing sheet.
c. Edging: 0.028 inch thick.
d. Adhesive: Fire resistant; Acceptable to laminate manufacturer.
e. Backing: 3/4-inch AB Group 1, exterior grade, APA fir plywood.
E. STANDING AND RUNNING TRIM
1. Multipurpose Construction Adhesive: Formulation complying with ASTM D 3498 that is recommended for indicated use by adhesive manufacturer.

2.4 FABRICATION
A. Fabricate in shop of millwork subcontractor and assemble in single units to the greatest extent that requirements of delivery and installation in building will permit.

PART III - EXECUTION

3.1 EXAMINATION
A. Verify the adequacy and proper location of any required backing or support framing.
B. Verify that mechanical, electrical, plumbing and other building items (supplied by others) effecting work in this section are in place and ready.

3.2 INSTALLATION
A. Install all work in conformance with MANUAL OF MILLWORK Custom GRADE.
B. All work shall be secured in place, square, plumb and level.
C. All work abutting other components shall be properly scribed.
D. Mechanical fasteners at exposed and semi-exposed surfaces, excluding installation attachment screws and screws used for attaching cabinets end-to-end, shall be countersunk.
E. Equipment cut-outs within countertops indicated on plans shall be cut by installer.
F. Method of attachment, including the type, size, frequency, and/or spacing of anchoring devices and fasteners shall comply to MANUAL OF MILLWORK minimum requirements or be as indicated in the plans or specifications.
G. All installations including attachment of casework and countertops shall be in compliance with MANUAL OF MILLWORK minimum requirements.

3.3 ADJUSTING
A. Before completion of the installation, the installer shall adjust all moving or operating parts to function smoothly and correctly.

3.5 CLEANING
A. Upon completion of installation, the installer shall clean all items installed of pencil or ink marks and broom clean the area of operation, depositing debris in containers provided by the general contractor.

END OF SECTION C06200

SECTION - C06410: SOLID NON-POROUS SHEET AND SHAPE PRODUCTS

PART I - GENERAL

1.1 SECTION INCLUDES
A. Solid Surface as provided by Clayton Fixture, see National Account Schedule on drawings.
1. Solid surface countertops
2. Solid surface sinks
3. Solid surface millwork and window sills
4. Adhesives and sealants

1.2 RELATED SECTIONS
A. Rough Carpentry: SECTION C06110
B. Finish Carpentry: SECTION C06200
C. Sealants and Caulking: SECTION C07920
D. Millwork, Cabinetry and Countertops: SECTION C12390
E. Plumbing: DIVISION 15

1.3 SUBMITTALS
A. Submit Shop Drawings per Section - C01300 SUBMITTALS
B. Product Data
1. Submit product data for each specified product. Include manufacturer's technical data sheets and published instructions.
2. Submit Material Data Safety Sheets (MSDS) for adhesives and sealants.
C. Quality Assurance Submittals:
1. Test Reports: Submit certified test reports showing compliance with specified performance characteristics and physical properties, if required.
2. Warranty: Specimen copy of specified warranty.
D. Maintenance Data: Submit manufacturer's published maintenance manual with closeout submittals.

1.4 REGULATORY REQUIREMENTS
A. Accessibility Requirements: Comply with the U.S. Architectural & Transportation Barries Compliance Board ADA-ABA Accessibility Guidelines for Buildings and Facilities.

1.5 QUALITY ASSURANCE
A. Fabricator Qualifications: Minimum of three (3) years documented experience in fabricating solid surfacing countertops similar in scope and complexity to this Project. Currently certified by the manufacturer as an acceptable fabricator.
B. Installer Qualifications: Minimum of three (3) years of documented installation experience for projects similar in scope and complexity to this Project, and currently certified by the manufacturer as an acceptable installer.

1.6 DELIVERY, STORAGE and HANDLING
A. Delivery: Deliver sinks in original containers.
B. Storage and Protection: Store materials protected from exposure to harmful weather conditions, at room temperature and humidity conditions recommended by manufacturer. Store sheet materials flat on pallets or similar rack-type storage to preclude damage.

1.7 PROJECT CONDITIONS
A. Field Measurements: Verify actual measurements and openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.
B. Adhesive: Acclimatize adhesives to occupancy room temperatures with maximum tepeerature not to exceed 75 degrees F.

1.8 WARRANTY
A. Manufacturer's Limited Warranty: Provide manufacturer's standard ten (10) Year Commerical Limited Warranty against defects in solid surface sheet materials.

PART II - PRODUCTS

2.1 MANUFACTURER
A. Basis of Design: Aristech Surfaces LLC - manufacturer of Avonite.

2.2 MATERIALS
A. Composition: Acrylic resins, fire-retardant mineral fillers, and proprietary coloring agents. Through-the-body color for full thickness of sheet material.
B. Sheet Products (vanity countertops): Manufacturer noted on finish schedule in drawings; 1/2 inch thick sheets, continuous length with bull-nose edge with integral back and side splash, and 3/4 inch exterior grade APA Fir plywood backing.
C. Shaped Products: Integral one-piece bowl; manufacturer's standard; if specified in mechanical portions of these specifications.
D. Patterns and Colors: As noted on finish schedule in drawings.

2.3 FABRICATION
A. Fabricate components in shop, to greatest extent practicable, in size and shapes indicated according to approved shop drawings and manufacturer published fabrication requirements.
B. From joint seams between solid surfacing components with specified seam adhisive. Completed joint inconspicuous in appearance and without voids.
C. Provide holes and cutouts indicated on approved shop drawings. Rout cutouts and complete by sanding all edges smooth.

PART III - EXECUTION

3.1 EXAMINATION
A. Examine substrates and conditions that could adversely affect the work of this Section.
B. Substrates must be sound, flat, smooth, and free from dusts or other surface contaminants.
C. Commencement of work will constitute acceptance of substrates and conditions to receive the work.

3.2 COUNTERTOP INSTALLAION
A. Install solid surfacing components plumb, level, and true according to approved shop drawings and manufacturer's published installation instructions. Use woodworking and specialized fabrication tools acceptable to manufacturer.
B. Form joint seams with specified seam adhesive. Seams in locations shown on approved shop drawings and acceptable to manufacturer.
C. Rout sink coutouts to manufacturer's template. Adhere solid surface cast sinks units to countertops with specified construction adhesive.
D. Install backsplashes and endsplashes where indicated on Drawings. Adhere to countertops with specified construction adhesive.

3.3 WINDOW SILL INSTALLATION
A. Install window sills for full length of each window unit, securing to substrates with concealed fasteners and specified adhesive.
B. Provide minimum 1/8-inch expansion gap on both sides of window sills. Fill gap with specified joint sealant.
C. Completed work to be plumb, level and true, with edges eased and sanded smooth.

3.4 REPAIR
A. Minor surface marring for solid surface components may be repaired according to manufacturer's published installation instructions.
B. Remove and replace solid surface componets that are damaged and cannot be satisfactorily repaired.

3.5 CLEANING AND PROTECTION
A. Clean solid surface componets accoring to manufacture's published maintenance instructions. Completely remove excess adhesives and sealants from finished surfaces.
B. Protect completed work from damage during remainder of construction period.

END OF SECTION C06410

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SHEET
SPECIFICATIONS

SHEET NUMBER
A-904

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DIVISION 07 - THERMAL AND MOISTURE PROTECTION

SECTION - C07210: BUILDING INSULATION

PART 1 - GENERAL

1.1 SUMMARY
A. This Section includes the following:
1. Perimeter wall insulation (supporting backfill).
2. Concealed building insulation.
3. Vapor retarders.

1.2 PART II - PRODUCTS

2.1 FOAM-PLASTIC BOARD INSULATION
A. Extruded-Polystyrene Board Insulation: ASTM C 578, Type IV, 1.60 lb/cu. ft. (26 kg/cu. m), with maximum flame-spread and smoke-developed indexes of 75 and 450, respectively:
1. Available Manufacturers:
a. DiversiFoam Products, Mendota, IL 61342
b. Dow Chemical Company, Midland, MI 48674
c. Owens Corning, Toledo, OH 43659

2.2 GLASS-FIBER BLANKET INSULATION
A. Available Manufacturers:
1. Owens Corning - Eco Touch, Toledo, OH 43659 (preferred)
2. CertainTeed Corporation, Valley Forge, PA 19482
3 Johns Manville, Denver, CO 80202
B. Faced, Glass-Fiber Blanket Insulation: ASTM C 665, Type II, Class C; Category 1 (membrane is a vapor barrier), faced with kraft faced vapor-retarder membrane on one face.

2.3 AIR BARRIER
A. Air Barrier (Building Felt): ASTM D266 one layer of 30 pound (Type II) asphalt saturated roofing felt.
B. Air Barrier (Building Wrap): ASTM E1677 one layer of (Type I) building wrap; flame-spread and smoke-developed indexes of less than 25 and 450, respectively, when tested according to ASTM E84; UV stabilized; and acceptable to authorities having jurisdiction.
C. Air Barrier (Building Wrap Tape): Pressure-sensitive plastic tape recommended by building wrap manufacturer for sealing joints and penetrations in building wrap.

2.4 VAPOR RETARDERS
A. Polyethylene Vapor Retarders: ASTM D 4397, 6 mils (0.15 mm) thick, with maximum permeance rating of 0.13 perm (7.5 ng/Pa x s x sq. m).
B. Vapor-Retarder Tape: Pressure-sensitive tape of type recommended by vapor-retarder manufacturer for sealing joints and penetrations in vapor retarder.
C. Adhesive for Vapor Retarders: Product recommended by vapor-retarder manufacturer and with demonstrated capability to bond vapor retarders securely to substrates indicated.

2.5 AUXILIARY INSULATING MATERIALS
A. Vapor-Retarder Tape: Pressure-sensitive tape of type recommended by insulation manufacturers for sealing joints and penetrations in vapor-retarder facings.
B. Adhesive for Bonding Insulation: Product with demonstrated capability to bond insulation securely to substrates indicated without damaging insulation and substrates.

PART III - EXECUTION

3.1 INSTALLATION, GENERAL
A. Comply with insulation manufacturer's written instructions to products and application indicated.
B. Install insulation that is undamaged, dry, and unsoiled and that has not been left exposed at any time to ice, rain, and snow.
C. Extend insulation in thickness indicated to envelop entire area to be insulated. Cut and fit tightly around obstructions and fill voids with insulation. Remove projections that interfere with placement.
D. Water-Piping Coordination: If water piping is located within insulated exterior walls, coordinate location of piping to ensure that it is placed on warm side of insulation and insulation encapsulates piping.
E. For preformed insulating units, provide sizes to fit applications indicated and selected from manufacturer's standard thicknesses, widths, and lengths. Apply single layer of insulation units to produce thickness indicated unless multiple layers are otherwise shown or required to make up total thickness.

3.2 INSTALLATION OF PERIMETER INSULATION
A. On vertical surfaces, set insulation units in adhesive applied according to manufacturer's written instructions. Use adhesive recommended by insulation manufacturer.
1. If not otherwise indicated, extend insulation a minimum of 24 inches (610 mm) below exterior grade line.
B. Protect below-grade insulation on vertical surfaces from damage during backfilling by applying protection course with joints butted. Set in adhesive according to insulation manufacturer's written instructions.

3.3 INSTALLATION OF GENERAL BUILDING INSULATION
A. Apply insulation units to substrates by method indicated, complying with manufacturer's written instructions. If no specific method is indicated, bond units to substrate with adhesive or use mechanical anchorage to provide permanent placement and support of units.
B. Seal joints between foam-plastic insulation units by applying adhesive, mastic, or sealant to edges of each unit to form a tight seal as units are shoved into place. Fill voids in completed installation with adhesive, mastic, or sealant as recommended by insulation manufacturer.
C. Install mineral-fiber insulation in cavities formed by framing members according to the following requirements:
1. Use insulation widths and lengths that fill the cavities formed by framing members. If more than one length is required to fill cavity, provide lengths that will produce a snug fit between ends.
2. Place insulation in cavities formed by framing members to produce a friction fit between edges of insulation and adjoining framing members.
3. Maintain 3-inch (76-mm) clearance of insulation around recessed lighting fixtures.
4. Install eave ventilation troughs between roof framing members in insulated attic spaces at vented eaves.
5. For wood-framed construction, install mineral-fiber blankets according to ASTM C 1320 and as follows:
a. With faced blankets having stapling flanges, secure insulation by inset, stapling flanges to sides of framing members.
E. Install board insulation on concrete substrates by adhesively attached, spindle-type insulation anchors as follows:
1. Fasten insulation anchors to concrete substrates with insulation anchor adhesive according to anchor manufacturer's written instructions. Space anchors according to insulation manufacturer's written instructions for insulation type, thickness, and application indicated.
2. Apply insulation standoffs to each spindle to create cavity width indicated between concrete substrate and insulation.
3. After adhesive has dried, install board insulation by pressing insulation into position over spindles and securing it tightly in place with insulation-retaining washers, taking care not to compress insulation below indicated thickness.
4. Where insulation will not be covered by other building materials, apply capped washers to tips of spindles.

3.4 INSTALLATION OF AIR BARRIER AND VAPOR RETARDER
A. Air Barrier (Building Felt): Install horizontally; begin by aligning bottom edge with base of wall 24-inches from a corner, print side out. Providing a 6-inch minimum horizontal lap and a 2-inch vertical lap. Work from the bottom up, taping all seams.
B. Air Barrier (Building Wrap): Seal seams, edges, fasteners, and penetrations with tape; Extend into jambs of openings and seal corners with tape; Comply with manufacturer's instructions and recommendations.
C. Vapor Retarders:
1. Batt Insulation: Vapor retarder face shall be installed on the warm side of construction, unless otherwise indicated. Tape joints and ruptures in vapor retarder and seal each continuous area of insulation to surrounding construction to ensure airtight installation.
2. Polyethylene Film: Use a combination of mechanical fasteners and sealant to attach to top plate, bottom plate and stud end. Place film over sealant without tension and press to provide contact. Secure to stud every 24-inches. Overlap edges a minimum 6-iches at vertical and horizontal edges.
a. Extend vapor retarder to extremities of areas to be protected from vapor transmission where batt insulation cannot reach. Secure in place with adhesives or other anchorage system as indicated. Extend vapor retarder to cover miscellaneous voids in insulated substrates, including those filled with loose-fiber insulation.
C. Seal joints caused by pipes, conduits, electrical boxes, and similar items penetrating vapor retarders with vapor-retarder tape to create an airtight seal between penetrating objects and vapor retarder.
D. Repair tears or punctures in vapor retarders immediately before concealment by other work. Cover with vapor-retarder tape or another layer of vapor retarder.

END OF SECTION C07210

SECTION - C07464 - FIBER REINFORCED HYBRID (RAINSCREEN) SIDING

PART I - GENERAL

1.1 SECTION INCLUDES
A. Board and Panel (Rainscreen) Siding for walls and soffits with batten strips and accessory trims and flashings. For exterior and interior use refer to the drawings.

1.2 DELIVERY, STORAGE, AND HANDLING
A. Store products in manufacturer's unopened packaging until ready for installation.
B. Store in ventilated areas with constant minimum temperature of 60 degrees F (16 degrees C) and maximum relative humidity of 55 percent.

1.3 WARRANTY
A. See Section C01700 - Contract Closeout, for additional warranty requirements.
B. Correct defective Work within one year period after Date of Substantial Completion.
C. Provide fifteen (15) year manufacturer warranty for materials.

PART II - PRODUCTS

2.1 REGULATORY REQUIREMENTS
A. Conform to applicable code for fire retardant requirements.

2.2 MANUFACTURERS
A. Fiber Reinforced Decking:
1. Resysta North America, Inc., Chino, CA 91710

2.3 MATERIAL
A. Fiber Reinforced Hybrid (Rainscreen) Siding: shall be an extruded composite consisting of a proprietary blend of approximately 60% rice husks, 22% common salt and 18% mineral oil.
B. Properties: Manufacturer to supply information regarding the various properties and characteristics of its product(s).
C. Fiber reinforced hybrid siding shall be workable, sandable and stainable similar to normal wood products.

2.4 SIDING
A. Board Siding: RESP340812
1. Size: (W x H x L) 13/16" x 7 7/8" x 12'
2. Maximum Span: 16 inches.
3. Profile: Flat face.
4. Surface Texture: Sanded.
B. Corner Strip Closure (Outside End Corners): RESF12812
1. Size: 1/2-inch (12.7 mm) thick by 8-inches (63.5 mm) wide by length.
2. Install miscellaneous trims as shapes as required to provide a complete assembly.

2.5 FINISH
A. Stains and Sealer: Select from manufacturer's standard glaze colors.
1. Manufacturer Provided Stain Color:
a. FVG C 02 "Pale Golden".
2. Sealer: 2K Protection Sealant
B. Use of non-manufacturer water borne or oil-based stain is not recommended and may violate the product warranty.

2.6 ACCESSORIES
A. Nails and Screws: Corrosion resistant type; non-staining, of size and strength to securely and rigidly retain the work, prefinished to match siding finish.
B. Flashing: Galvanized steel
C. Accessory Components: Fascias, Starter strips, and Trim of same material and finish as siding.
D. Prime Paint: Latex base primer enamel.

PART III - EXECUTION

3.1 EXAMINATION
A. Examine substrate conditions before beginning installation; verify dimensions and acceptability of substrate.
B. Verify that weather barrier has been installed over substrate completely and correctly.
C. Confirm metal flashings are installed at sills, heads of wall openings, and horizontal joints of sheet materials.
D. Do not proceed with installation until unacceptable conditions have been corrected.
E. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION
A. Prime paint surfaces in contact with cementitious materials.

3.3 INSTALLATION
A. Install siding in accordance with manufacturer's instructions.
1. Preplan cuts to allow for expansion gaps at inside and outside corners.
2. Provide joint gaps as indicated on Drawings. Typical joint width is approximately 3/8-inch.
B. Attach vertical support battens (furring) securely to framing, not sheathing, with horizontal components true to level and vertical components true to plumb, providing a weather resistant installation.
1. Place vertical support battens (furring) to allow screw attachment within two inches of the end of the horizontally placed siding panels.
2. Confirm battens provide minimum 3/4-inch airspace between siding and weather barrier.
C. Manufacturer to ship pre-stained and pre-sealed individual planks. All trim and fascia panel trim boards will be shipped unfinished. GC is responsible for staining and sealing those elements prior to installation. Apply finish stain (1 Coat Stain, 2 Coats Sealant).
1. Where alternate color is used manufacturer will ship unfinished boards and thus GC will be responsible for all staining and sealing as described above.
D. Fasten siding in place, level and plumb.
1. Arrange for staggered joint (ship's deck) pattern.
2. Install siding for natural shed of water.
3. Position cut ends over bearing surfaces. Sand cut edges smooth and clean.
E. Install corner strips. Countersink screws at all exposed fasteners. See section I.
F. Install joint sealers between siding/soffit/trim and adjacent construction, using procedures specified elsewhere.
G. Touch-up prefinished paint surfaces that are disfigured. Unsightly touch-up will require removal and replacement of affected siding.
H. Sand work smooth and set exposed nails and screws. Ease sharp edges with 80-100 grit sandpaper for color uniformity prior to staining.
I. Install manufacturer supplied wood dowel plugs over all exposed "countersunk" screw hole locations. Sand down dowels to be flush with finish wall face & apply finish stain (1 Coat) to match. Manufacturer to supply an adequate amount of additional stain for GC's use.
4
A. TOLERANCES
Maximum Variation From Plumb and Level: 1/4-inch per 10 feet (6 mm/3 m).
B. Maximum Offset From Joint Alignment: 1/16-inch (1.5 mm).

5
A. PROTECTION
Protect installed products until completion of project.
B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION C07464

SECTION - C07530: THERMOPLASTIC MEMBRANE ROOFING

PART I - GENERAL

1.1 SUMMARY
A. Contractor shall furnish and install a 50 mil, single ply membrane roofing system that is fabricated of a weft-inserted low shrink, Anti-wicking Polyester Fabric and has a thermoplastic coating laminated to both sides as manufactured by Duro-Last Roofing Inc.
B. Insulation: Refer to drawings for required thickness and R-Value, Polyisocyanurate, mechanically fastened. Site adapt architect to verify & adjust plans per local regional requirements for actual thickness and R-Value required.

1.2 RELATED WORK
C. Flexible and Sheet Metal Flashing: SECTION C07600
D. Roof Sheet Metal and Trim: SECTION C07620
E. Roof Hatches: SECTION C07720

1.3 QUALITY ASSURANCE
A. Installer Qualifications: A qualified installer, approved by manufacturer to install manufacturer's products.
1. Contact: Linday Beuthin, Regional Sales Manager, (800) 248-0280, ext 2110. Installer must be authorized.
B. Source Limitations: Obtain components for membrane roofing system from approved roofing membrane manufacturer.
C. Fire-Test-Response Characteristics: Provide membrane roofing materials with the fire-test-response characteristics indicated as determined by testing identical products per test method below by UL, FMG, or another testing and inspecting agency acceptable to authorities having jurisdiction.
1. Exterior Fire-Test Exposure: Class A; ASTM E 108, for application and roof slopes indicated.

1.4 WARRANTY
A. Special Warranty: Manufacturer's standard form, without monetary limitation, in which manufacturer agrees to repair or replace components of membrane roofing and flashing system that fail in materials or workmanship within 15 years from date of Substantial Completion. Failure includes roof leaks. It is the Owner's intent to secure a system warrantee for the membrane roofing and roof flashing under one manufacturer's warrantee, with one contractor.

PART II - PRODUCTS

2.1 PVC ROOFING MEMBRANE
A. PVC Sheet: ASTM D 4434, Type III, fabric reinforced.
1. Manufacturers:
a. Duro-Last Roofing, Inc., Saginaw, MI 48601 (See National Account)
2. Thickness: 50 mils (3.55 mm), nominal.
3. Exposed Horizontal Face Color: White
4. Exposed Vertical Face Color: Tan

2.2 ROOF SHEET METAL FLASHING AND TRIM
A. See Section 07620 for roof flashing associated with a "Complete System."

2.3 AUXILIARY MATERIALS
A. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with membrane roofing.
B. Sheet Flashing: Manufacturer's standard sheet flashing of same material, type, reinforcement, thickness, and color as PVC sheet membrane.
C. Bonding Adhesive: Manufacturer's standard solvent-based bonding adhesive for membrane, and solvent-based bonding adhesive for sheet flashings.
D. Metal Termination Bars: Manufacturer's standard pre drilled stainless-steel or aluminum bars, approximately 1 by 1/8 inch (25 by 3 mm)thick; with anchors.
E. Metal Battens: Manufacturer's standard aluminum-zinc-alloy-coated or zinc-coated steel sheet, approximately 1 inch (25 mm) wide by 0.05 inch (1.3 mm) thick, pre punched.
F. Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FMG 4470, designed for fastening membrane to substrate, and acceptable to membrane roofing system manufacturer.
G. Miscellaneous Accessories: Provide pourable sealers, performed cone and vent sheet flashings, performed inside and outside corner sheet flashings, T-joint covers, termination reglets, cover strips, slip sheet, and other accessories.

2.4 ROOF INSULATION
A. Polyisocyanurate Board Insulation, see drawings for required thickness and R-Value: ASTM C 1289, Type II, felt or glass-fiber mat facer on both major surfaces, must be approved by Duro-Last.
B. Tapered Insulation: Provide factory-tapered insulation boards fabricated to slope of 1/4 inch per 12 inches (1:48), unless otherwise indicated.
C. Provide performed saddles, crickets, tapered edge strips, and other insulation shapes where indicated for sloping to drain. Fabricate to slopes indicated.

2.5 INSULATION ACCESSORIES
A. Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FMG 4470, designed for fastening roof insulation to substrate, and acceptable to roofing system manufacturer.
B. Cold Fluid-Applied Adhesive: Manufacturer's standard cold fluid-applied adhesive formulated to adhere roof insulation to substrate.
C. Cover Board: ASTM C 208, Type II, Grade 2, cellulosic-fiber insulation board, 1/2 inch (13 mm) thick.
D. Cover Board: DOC PS 2, Exposure 1, oriented strand board, 7/16 inch (11 mm) thick.
E. Cover Board: ASTM C 1177/C 1177M, glass-mat, water-resistant gypsum substrate, 1/2 inch (13 mm) thick.

2.6 WALKWAYS AND PROTECTION PADS
A. Flexible Walkways: Extruded factory-formed pad from recycled roof membranes and oriented strand polyester reinforcement.
1. Duro-Last Roofing, Inc., Saginaw, MI 48601 (See National Accounts) "Roof Trak III"

PART III - EXECUTION

3.1 SUBSTRATE BOARD INSTALLATION
A. Install substrate board with long joints in continuous straight lines, perpendicular to roof slopes with end joints staggered between rows. Tightly butt substrate boards together.

3.2 INSULATION INSTALLATION
A. Coordinate installing membrane roofing system components so insulation is not exposed to precipitation or left exposed at the end of the workday.
B. Comply with membrane roofing system manufacturer's written instructions for installing roof insulation.
C. Install tapered insulation under area of roofing to conform to slopes indicated.
D. Mechanically Fastened Insulation: Install each layer of insulation and secure to deck using mechanical fasteners specifically designed and sized for fastening specified board-type roof insulation to deck type.
1. Fasten insulation to resist uplift pressure at corners, perimeter, and field of roof. Contact Duro-Last Engineering Services to determine fastening requirements.
E. Install cover boards over insulation with long joints in continuous straight lines with end joints staggered between rows. Loosely butt cover boards together and fasten to roof deck.
1. Fasten to resist uplift pressure at corners, perimeter, and field of roof.

3.3 MECHANICALLY FASTENED ROOFING MEMBRANE INSTALLATION
A. Install roofing membrane over area to receive roofing according to roofing system manufacturer's written instructions. Unroll roofing membrane and allow to relax before installing.
1. Install sheet according to ASTM D 5082.
B. Mechanically or adhesively fasten roofing membrane securely at terminations, penetrations, and perimeter of roofing. Contact Duro-Last Engineering Services to determine fastening requirements.
C. Seams: Clean seam areas, overlap roofing membrane, and hot-air weld side and end laps of roofing membrane according to manufacturer's written instructions to ensure a watertight seam installation.
1. Repair tears, voids, and lapped seams in roofing membrane that does not meet requirements.
D. In-Splice Attachment: Secure one edge of roofing membrane using fastening plates or metal battens centered within membrane splice and mechanically fasten roofing membrane to roof deck. Field-splice seam.
E. Through-Membrane Attachment: Secure roofing membrane using fastening plates or metal battens and mechanically fasten roofing membrane to roof deck. Cover battens and fasteners with a continuous cover strip.

3.4 BASE FLASHING INSTALLATION
A. Install sheet flashings and performed flashing accessories and adhere to substrates according to membrane roofing system manufacturer's written instructions.
B. Apply solvent-based bonding adhesive to substrate and underside of sheet flashing at required rate and allow to partially dry. Do not apply bonding adhesive to seam area of flashing.
C. Flash penetrations and field-formed inside and outside corners with sheet flashing.
D. Clean seam areas and overlap and firmly roll sheet flashings into the adhesive. Weld side and end laps to ensure a watertight seam installation.
E. Terminate and seal top of sheet flashings and mechanically anchor to substrate through termination bars.

3.5 WALKWAY AND PROTECTION PAD INSTALLATION
A. Flexible Walkways: Install walkway products in locations indicated. Heat-weld (hot air) attachment skirts to roof membrane per manufacturer's written instructions.

3.6 FIELD QUALITY CONTROL
A. Testing Agency: Owner will engage a qualified independent testing and inspecting agency to perform roof tests and inspections and to prepare test reports.
B. Final Roof Inspection: Arrange for roofing system manufacturer's technical personnel to inspect roofing installation on completion and submit report to Architect.
C. Repair or remove and replace components of membrane roofing system where test results or inspections indicate that they do not comply with specified requirements.

END OF SECTION C07530

SECTION - C07600: FLEXIBLE AND SHEET METAL FLASHING

PART I - GENERAL

1.1 SECTION INCLUDES
A. Elastomeric flashing for walls, doors and windows.
B. Metal flashings indicated on the drawings.
C. Mechanical equipment support curb sheetmeal caps and flahsings.
D. Note: The owner preferences a product with a higher pre-consumer and/or post-consumer recycled content under the condition that there is not a significant increase in price between the product options. Under the condition that there is not a significant increase in price between the product options.

1.2 RELATED SECTIONS
A. Unit Masonry Assemblies: SECTION C04810
B. Thermoplastic Membrane Roofing: SECTION C07530
C. Sealants and Caulking: SECTION C07920
D. Roof Sheet metal Flashing and Trim: SECTION C7620

1.3 REFERENCES
A. Publications: Perform sheetmetal work in accord with recommendations in the latest edition of the Architectural Sheet Metal Manual, as published by the Sheet Metal and Air Conditioning National Contractor's Association.

1.4 GUARANTEE
A. In addition to the requirements specified, sheetmetal work shall be completely watertight. The Contractor shall furnish in writing guarantees providing for repairs to sheetmetal work at no additional cost to the Owner. Guarantee shall include repair of all leaks or defects in sheetmetal materials and workmanship appearing within two years of date of acceptance by the Owner.

PART II - PRODUCTS

2.1 FLEXIBLE (ELASTOMERIC) FLASHING
A. Elastomeric Flashing: Flashing and accessories for installation in cavity wall construction. Including but not limited to:
1. Wall bases
2. Heads of openings
3. Window sills
4. Shelf angles and lintels
5. Wall discontinuities in the cavity
B. Provide a water proof EPDM membrane through-wall flashing integrated with the wall assembly's water resistive barrier and cavity drainage system. Provide a EPDM membrane flashing of 0.40 inch (40 mil) thickness consisting of cured, dimensional stable, non-reinforced with talc removed surfaces.
C. Provide accessories as required, including but not limited to:
1. Splice tape, compound, primer and cleaner
2. Bonding adhesives
3. Lap sealants
4. Corner patch
5. Termination bar

2.2 SHEETMETAL FLASHING
A. Galvanized Sheetmetal: Zinc-coated steel ASTM A653, coated designation G-90, in thickness of 22 gauge 36-inch to 48" coil length.
B. Sheetmetal Minimum Gauges: Gauges are based on galvanized sheetmetal. Where other metal is used, use equivalent weights in tables from the Sheet Metal Manual.
1. Hook Strips 22 ga
2. Joint Covers 22 ga
3. Special Flashing 22 ga
4. Pitch Pans 24 ga
5. Window Sill Flashing 22 ga

2.4 MISCELLANEOUS MATERIALS
A. Screws and Bolts: Galvanized, plated or non-ferrous metal.
B. Solder: Composition 40% lead and 60% tin for use with galvanized sheet.
C. Soldering Flux: Federal Specification O-F-506, Form A or B or equal commercial product as approved on the job.
D. Mastic: Flashing cement, equal ot BESTILE, Manville Products Coporation.
E. Bituminous Paint: ASTM C1187,NA-TAZ, Pure Asphalt Company, Chicago, IL or equal.

PART III - EXECUTION

3.1 ELASTOMERIC FLASHING INSTALLATION
A. General: Install as shown on the drawings and at all locations normally considered good practice. Trim cut flashings clean to provide a finished installation where no flashing surfaces are visible.
B. Wall Flashing: Install where shown on the drawings, 1/2-inch inward from outside face of wall and extend up and through wall as indicated, joints lapped 4 inches minimum with laps bedded in sealant.
C. Door and Window Flashing: Install at all sills and heads, whether or not shown on the drawings. Install 1/2-inch inward from outside face of wall and extend 6" on each side of opening, up and through wall as indicated. Dam ends of flashing to prevent water penetration at ends. Sheeting shall not be allowed to hang free prior to completion of wall finish, but shall be nailed to framing (behind sheathing) with nails and discs.

3.2 SHEETMETAL INSTALLATION
A. General:
1. Dissimilar Materials Contact: Where sheetmetal is shown contacting concrete, masonry materials, steel, other dissimilar metal, or is contacting wood, keep sheetmetal from direct contact with the dissimilar materials by a coating of bituminous paint applied to a thickness of 15 mils.
2. Surfaces to which sheetmetal will be applied shall be true, smooth, clean, dry and free from defects which might lead to distortion of metal work. Install all sheetmetal work in accordance with approved standards in reference manual, and coordinate with work of other trades, particularly the roofing trade for proper sequence of flashing work.
3. Proper and adequate provisions shall be made in fabrication, installing and fastening sheetmeal work for expansioin and construction of metal and other materials entering in the the work s that pulling, splitting, opening of joints, warpage or other failure of the work shall be prevented. Expansion joints in sheetmetal shall be placed not farther than 40 feet apart.
B. Underlayment: Install building paper under all sheetmetal covering over wood nailers or blocking. Lap joints two inches and nail at 16-inches on center, or secure with flashing cement.
C. Seams: Finish seams neatly with lines trimmed true and sharp. Number of joints shall be as few as is consistent with commercial sizes of materials.
1. Flat seams, not less than 1/2-inch in width, shall be either single locked and sweated with solder, or double locked and malleted flat.
2. Loose locked seams shall be single locked.
3. Cross joints shall be loose locked and filled with elastomeric sealant.
D. Cleats: When applied as an exposed covering, fasten sheet metal to wood nailers with 2-inch by 3-inch cleats of same kind and weight of metal, spaced not over 12-inch center to center along hems, with one end of cleat turned into hem and opposite end secured with two fasteners and turned back over fasteners.
E. Soldering: Remove foreign materials and surface oxides prior to soldering, and solder as soon as possible after cleaning with degreasing solvents. Type of flux shall be compatible with solder used.

3.4 CLEAN-UP
A. Upon completion of work of this section remove related debris from premises.

END OF SECTION C07600

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

WARE MALCOMB
ARCHITECTURE PLANNING INTERIORS
CIVIL ENGINEERING LANDSCAPE ARCHITECTURE BUILDING MEASUREMENT
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STATE OF MONTANA
REGISTERED ARCHITECT
11/12/2025

CHICK-FIL-A
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HELENA, MONTANA 59602

FSR#05484

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DATE 10/20/2025
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SHEET
SPECIFICATIONS

SHEET NUMBER
A-905

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SECTION - C07620: ROOF SHEET METAL FLASHING AND TRIM

PART I - GENERAL

1.1 SECTION INCLUDES
- A. Metal trims, coping, gutters, downspouts and accessories
- B. Metal fascia panels
- C. Metal soffit panels

1.2 RELATED SECTIONS
- A. Thermoplatic Membrane Roofing: SECTION C07530
- B. Flexible and Sheetmetal Flashing: SECTION C07600

1.3 REFERENCES
- A. ASTM A 653/A 653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc Aluminum Coated (Galvalume) Steel.
- B. ASTM B 209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
- C. Dade County (Florida) Acceptance, Florida Product Approval (FBC)
- D. SMACNA (ASMM) - Architectural Sheet Metal Manual; Sheet Metal and Air Conditioning Contractors National Association; Architectural Sheet Metal Manual 2006 6TH Edition.
- E. IBC 2006/12 International Building Code
- F. ES 1 compliant to meet with ANSI/SPRI
- G. ASCE 7-10

1.4 SUBMITTALS
- A. Submit under provisions of Section C01000
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
  1. Preparation instructions and recommendations.
  2. Storage and handling requirements and recommendations.
  3. Installation methods.
- C. Shop Drawings: Submit shop drawings showing layout, profiles and product components, including anchorage, accessories, finish colors and textures.
- D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
- E. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square representing actual product, color, and patterns.
- F. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
- G. Operation and Maintenance Data: Include methods for maintaining installed products and precautions relating to cleaning materials and methods that might be detrimental to finishes and performance.
- H. Close Out: Warranty documents specified herein.

1.5 QUALITY ASSURANCE
- A. Installer Qualifications: A qualified installer, approved by manufacturer to install manufacturer's products.
  1. Contact: Lindy Beuthin, Regional Sales Manger, (800) 248-0280, ext. 2110. Installer must be authorized.

1.6 DELIVERY, STORAGE, AND HANDLING
- A. Store products in manufacturer's unopened packaging with identification labels intact until ready for installation.
- B. Store materials protected from exposure to harmful weather conditions. Store material in a dry, above ground location.
  1. Stack pre-finished material to prevent twisting, bending, and abrasion, scratching and denting. Elevate one end of each skid to allow for moisture to run off.
  2. Prevent contact with material that may cause corrosion, discoloration or staining.
  3. Do not expose to direct sunlight or extreme heat trim material with factory applied strippable film.

1.7 PROJECT CONDITIONS
- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.8 WARRANTY
- A. Manufacturer's Warranty: Provide manufacturer's warranty, inclusive of all sheet metal, edge to edge as detailed in SECTION 07530 roofing section. The system shall be as provided by Duro-Last and made part of the edge to edge warranty.

PART II - PRODUCTS

2.1 MANUFACTURERS
- A. Manufacturer: Duro Last/Exceptional Metals, Saginaw, MI 48601 (See National Accounts)
- B. Requests for substitutions will be considered in accordance with provisions of Section C01030.
- C. Soffit Panels: Exceptional Metals Aluminum Soffit Panels; V-grooved.
  1. Type: Smooth Surface
  2. Type: 0.040 Aluminum
  3. Style: Solid
  4. Panel Width: 12 inches (305 mm), center to center.
  5. Color: As indicated on the drawings
- D. Trim: Manufacturer's standard trim profiles, factory formed; fabricated as recommended in SMACNA Architectural Sheet Metal Manual.
  1. Material: 24 gauge, 0.024 inch (0.61 mm) ASTM A 653/A 653M Galvalume steel.
  2. Material: 22 gauge, 0.03 inch (0.76 mm) ASTM A 653/A 653M Galvanized Grade 50 steel.
  3. Material: 0.040 inch (0.1mm) aluminum, ASTM B 209 3105-H14 alloy.
  4. Finish: KYNAR 500/HYLAR 5000 70% PVDF (Polyvinylidene fluoride) paint.
  5. Color: As indicated on the drawings
- E. Gutters and Downspouts: Manufacturer shall provide gutters and downspouts. Finish and color as indicated on the drawings.
  6. Gutter shall consist of 24 gauge Galvalume, Kynar 500/Hylar 5000, Grade 50 steel consisting of 70% PVDF coating.
  7. Downspouts shall consist of 24 gauge Galvalume, Kynar 500/Hylar 5000, Grade 50 steel, 70% PVDF coating. All seams for downspouts shall be Pittsburgh seamed not pop riveted, except at the elbows. Pop rivets shall be Stainless Steel and match in color.
- F. Two Piece Compression perimeter edge metal:
  1. Base leg attached to the perimeter shall consist of 22 gage steel cleat.
  2. Compression Edge Metal shall consist of 0.040 Aluminum to match the color as indicated on drawings.
- H. Coping Cap:
  1. Coping Special design shall be as detailed in the drawings, providing 24 gage cleat, splice plates and coping base on 4-inch face.
- I. Scupper Overflow and Through Wall with custom fit Receiver
  1. Scupper Overflow: Metal Flange and 2 Skirt Scupper consisting of 24 gauge vinyl coated steel shall be shop fabricated by the manufacturer. The skirt shall be back sealed using the factory supplied mastic behind the flange.
  2. Scupper and Collector: Through Wall Scupper and Collector shall be shop fabricated and sized by the manufacturer in one monolithic assembly. The top flange of the collector shall be back sealed and fastened at 6-inch centers. The Receiver/Collector Box shall match color, as indicated on the drawings. The Receiver/Collector shall be 24 gauge steel, Grade 50 steel and the scupper shall be made part of the specified warranty.
  3. All Skirts for through wall and for overflow scupper shall be fabricated with White PVC.
- J. Fascia Custom and Standard Fascia
  1. Custom Fascia shall be of 0.040 aluminum.
  2. Standard Fascia shall consist of 24 gauge steel. Use manufacturer provided cleats.

PART III - EXECUTION

3.1 EXAMINATION
- A. Verify that substrates are acceptable for roofing installation in accordance with manufacturer's instructions.
- B. Do not begin installation until substrates have been properly prepared. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 INSTALLATION
- A. Install in accordance with manufacturer's written instructions.
- B. Coordinate roofing with other work, including but not limited to drainage, flashing and trim, deck substrates, parapets, copings, walls, and other adjoining work.
- C. Install roofing, patterns and drainage indicated, in accordance with manufacturer's instructions, and as necessary to achieve specified performance and a leak-free Installation. Allow for structural and thermal movement.
- D. Separate dissimilar metals using bituminous coating to prevent galvanic action.
- E. Provide uniform, neat seams; provide sealant-type joint where indicated and form joints to conceal sealant.

3.3 FIELD QUALITY CONTROL
- A. Post Installation Testing: Owner reserves right to perform post installation testing of installed roofing.
- B. Manufacturer's Field Services: Upon Owner's request, provide manufacturer's field service consisting of product use recommendations and periodic site visit for inspection of product installation in accordance with manufacturer's instructions. Field Technician shall be a certified inspector employed by Duro-Last and not a member of the sales staff.

3.4 CLEANING
- A. Remove temporary coverings and protection of adjacent work areas.
- B. Touch-up, repair or replace damaged products.
- C. Clean in accordance with manufacturer's instructions prior to Substantial Completion.
- D. Remove construction debris from project site and legally dispose of debris.

3.5 PROTECTION
- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION C07620

SECTION - C07720: ROOFTOP SUPPORT SYSTEMS

PART I - GENERAL

1.1 SECTION INCLUDES
- A. The work covered by this specification consists of furnishing all labor, equipment, materials and accessories, and performing all operations required for the correct installation of recycled rubber pipe supports for mechanical piping and elevated platform supports for refrigeration condensers.

1.2 QUALITY ASSURANCE
- A. Rooftop Support Systems shall be manufactured under a strict quality control program assuring quality product delivered to the jobsite. Supports that are damaged shall not be installed.
- B. Workmanship: All supports to be installed by a qualified contractor and installed in accordance with manufacturer's recommendations.
  1. All work shall comply with all applicable federal, state, and local codes and laws having jurisdiction.
  2. All work shall conform to accepted industry and trade standards for pipe support installations.

1.3 RELATED SECTIONS
- A. Thermoplatic Membrane Roofing: SECTION C07530
- B. Flexible and Sheetmetal Flashshing: SECTION C07600

PART II - PRODUCTS

2.1 MANUFACTURERS
- A. Pipe Supports:
  1. Cooper B-Line, Inc., Highland, IL 62249, "DURA-BLOK"
- B. Elevated Equipment Supports:
  2. AVCOA Corporation, Fort Lauderdale, FL 33314

2.2 MATERIALS
- A. Pipe Support: Curb base shall be made of 100% recycled rubber and polyurethane prepolymer with a uniform load capacity of 500 pounds per linear foot of support. In addition, each base to have a reflective yellow stripe.
  1. Steel Frame: Steel, 14 gauge strut galvanized per ASTM A653 or 12 gauge strut galvanized per ASTM A653 for bridge series.
  2. Attaching hardware: Zinc-plated threaded rod, nuts and attaching hardware per ASTM B633.
- B. Equipment Support: Constructed of 6061-T6 Aluminum alloy. The support system shall consist of rectangular or circular tube legs, with rails (I-beams) and clips and plates. Engineered to withstand high velocity hurricane zone provisions. Wind loads shall be verified with local jurisdiction having authority. Verify minimum clear clear height required.

PART III - EXECUTION

3.1 INSTALLATION
- A. Pipe Support:
  1. Install in accordance with manufacturer's instructions.
  2. Always consult roofing manufacturer for roof membrane compression capacities. If necessary, a compatible sheet of roofing material (rubber pad) may be installed under rooftop support to disperse concentrated loads and add further membrane protection.
  3. Gas pipe spacing subject to local gas authorities.
  4. Use properly sized clamps to suit pipe sizes.
- B. Equipment Elevated Support:
  1. Install 2 rails 5 feet each and 2 rails 7 feet with three supports each rail (center middle leg). 5 feet rails to be 31-inches apart at cooler/freezer condensers and 7feet rails to be 27-inches apart at ice machine condensers. Stands shall provide 18-inch minimum clearance and shall be sized and installed according to the manufacturer's load charts and printed installation details.

END OF SECTION C07720

SECTION - C07740: ROOF HATCHES

PART I - GENERAL

1.1 SECTION INCLUDES
- A. Furnish labor, materials, services, equipment and appliances required for roof hatch work only when indicated on the Drawings and specified herein.

1.2 RELATED SECTIONS
- A. Aluminum Ladders: SECTION C05514
- B. Thermoplatic Membrane Roofing: SECTION C07530
- C. Flexible and Sheetmetal Flashing: SECTION C07600

1.3 WARRANTY
- A. Manufacturer's Standard Warranty: Materials shall be free of defects in material and workmanship for a period of five (5) years from the date of purchase.

1.4 SUBSTITUTIONS
- A. Substitutions shall be considered in accordance with provisions of Section C01030.

PART II - PRODUCTS

2.1 MANUFACTURER
- A. Bilco Company, New Haven, CT 06505

2.2 ROOF HATCHES
- A. Type "S-50-TB"; completely assembled:
  1. Curbs: Shall be 12" (305mm) in height and of 11 gauge (2.3mm) aluminum. Interior and exterior surfaces shall be thermally broken to minimize heat transfer and to resist condensation. The curb shall be formed with a 5-1/2" (140mm) flange with 7/16" (11mm) holes provided for securing to the roof deck. The curb shall be equipped with an integral metal capflashing of the same gauge and material as the curb, fully welded at the corners, that features the Bil-Clip® flashing system,including stamped tabs, 6" (153mm) on center, to be bent inward to hold single ply roofing membrane securely in place.
  2. Curb Insulation:Shall be 3" (75mm) thick polyisocyanurate with an R-value = 20.3 (U=0.279 W/m2K).
  3. Covers: Shall be 11 gauge (2.3mm) aluminum with a 5" (127mm) beaded flange with formed reinforcing members. Interior and exterior surfaces shall be thermally broken to minimize heat transfer and to resist condensation. Cover shall have a heavy extruded EPDM rubber gasket bonded to the cover interior to assure a continuous seal when compressed to the top surface of the curb.
  4. Cover Insulation: Shall be 3" (75mm) thick polyisocyanurate with an R-value = 20.3 (U=0.279 W/m2K), fully covered and protected by an 18 gauge (1mm) aluminum liner.
  4. Lifting Mechanisms: Manufacturer shall provide compression spring operators enclosed in telescopic tubes to provide, smooth, easy, and controlled cover operation throughout the entire arc of opening and closing. The upper tube shall be the outer tube to prevent accumulation of moisture, grit, and debris inside the lower tube assembly. The lower tube shall interlock with a flanged support shoe welded to the curb assembly.
  6. Hardware:
    1. Heavy stainless steel pintle hinges shall be provided
    2. Cover shall be equipped with a spring latch with interior and exterior turn handles
    3. Roof hatch shall be equipped with interior and exterior padlock hasps.
    4. The latch strike shall be a stamped component bolted to the curb assembly.
    5. Cover shall automatically lock in the open position with a rigid hold open arm equipped with a 1"(25mm) diameter red vinyl grip handle to permit easy release for closing.
    6. Compression spring tubes shall be an anti-corrosive composite material and all other hardware shall be zinc plated and chromate sealed. [For installation in highly corrosive environments or when prolonged exposure to hot water or steam is anticipated, specify Type 316 stainless steel hardware].
    7. Cover hardware shall be bolted into heavy gauge channel reinforcing welded to the underside of the cover and concealed within the insulation space.
  7. Finishes: Factory finish shall be mill finish aluminum.

2.3 FABRICATION
- A. Fabricate free of visual distortions and defects. Weld corners and joints. Provide for removal of condensation. Provide weather-tight assembly.

PART III - EXECUTION

3.1 PROTECTION
- A. Cover and protect hatches from damage before and after installation. Replace damaged covers at no additional cost to Owner.

3.2 INSTALLATION
- A. Install in accord with manufacturer's instructions. Coordinate with installation of roofing system and related flashings. Provide weather-tight installation. Apply bituminous paint on metal surfaces of units in contact with cementitious materials and dissimilar metals.

END OF SECTION C07740

SECTION - C07920: SEALANTS AND CAULKING

PART I - GENERAL

1.1 SECTION INCLUDES
- A. Exterior sealing; waterproofing and visual requirements.
- B. Interior sealing; painting requirements.
- C. Interior mildew-resistant sealant.
- D. Fire-resistant joint sealant.
- E. Preparing sealant substrate surfaces.
- F. Sealant and backing.

1.2 RELATED SECTIONS
- A. Concrete Footing/Slab-on-Grade: SECTION C03300
- B. Unit Masonry Assemblies: SECTION 04810
- C. Finish Carpentry: SECTION C062000
- D. Flexible and Sheet Metal Flashing: SECTION C07600
- E. Roof Sheet Metal Flashing and Trim: SECTION C07620
- F. Aluminum-Framed Entrances and Storefronts: SECTION C08411
- G. Pass-Thru Windows: SECTION C08580
- H. Gypsum Board: SECTION C09250
- I. Reinforced Wall Coverings: SECTION C097700
- J. Painting: SECTION C09910
- K. Millwork, Cabinetry and Countertops: SECTION C12390

1.3 INTENT
- A. Requirements of this Section controls the type and quality of sealing work. Unless specifically directed otherwise in other Sections and/or on the Drawings these Technical Sections shall take precedence.
- B. Provide sealant required to close joints that would allow moisture or air to enter structure between fixed materials as shown on the drawings and as herein specified including but not limited to:
  1. Sealing of interior perimeter joints of window framing, door frames, and other wall openings.
  2. Setting of thresholds in sealant.
  3. Sealing of joints between countertops and wall surfaces for a sanitary joint.
  4. Sealing of joints of every nature and description that would allow moisture or air penetration.
  5. Sealing of joints indicated to be caulked or sealed whether specifically mentioned herein or not.
  6. Sealing around all pipe, duct and vent penetrations.

PART II - PRODUCTS

2.1 MANUFACTURER
- A. The Drawings were prepared & written on the basis of using the products pre-approved by theOwner. Such is intended to establish minimum quality and LEED standards, not to limit competitive bidding. Products with equal or superior characteristics by other manufacturers are acceptable under conditions of the Section C01030. The use of sealants with low VOC's is preferred.

2.2 SEALANT MATERIALS
- A. Exterior Sealant: Compound used at masonry joints.
  1. BASF Sonolastic NP2, three-part polyurethane sealant; ASTM-C920, Type M.
  2. Color: Match brick mortar
- B. Exterior Sealant: Compound used at exterior sidewalks and exposed concrete areas.
  1. BASF Sonolastic NP2, three-part polyurethane sealant; ASTM-C920, Type M.
  2. Color: Match exposed concrete
- C. Interior Sealant: Compound used throughout job in dining, kitchen, restrooms, etc:
  1. Dow Corning 790, one-part neutral-cure silicone sealant.
  2. Color: Clear
- D. Fire-Resistant Joint Sealant: (as required by building codes or authorities)
  One part fire-stopping sealant system formulated for use in through-penetration sealing of openings, cables, conduit, pipes, and penetrations through walls and floors.
  1. 3M Fire Barrier Sealant CP-25WB+ by Electrical Products Division, 3M Company.
- E. Kitchen Exhaust Hoods to Stainless Steel Wall Panels:
  1. 3M "Fire Barrier" 2000
  2. International Protective Coatings "Flamesafe" FS 1900.

2.3 ACCESSORIES
- A. Primer: Non-staining type, recommended by sealant manufacturer, to suit application.
- B. Joint Cleaner: Non-corrosive and non-staining; recommended by sealant manufacturer; compatible with joint forming materials.
- C. Joint Backing: Where required, non-absorbent and non-staining foam rod, compatible with sealant used. Diameter required to form friction surface at sides of open joint.
- D. Bond Breaker: Pressure sensitive tape recommended by sealant manufacturer to suit application.
- E. Masking Tape: FS UU-T-106.

PART III - EXECUTION

3.1 GENERAL
- A. Do not use interior sealant for exterior conditions. Gun apply compound with nozzle of proper size to fit width of joint indicated; force sealant into joint with sufficient pressure to expel air and fill groove solidly.
- B.
- C.

3.2 INSPECTION
- A. Verify that surfaces and joint openings are ready to receive work and field measurements are as shown on Drawings and recommended by sealant manufacturer. Beginning of installation means installer accepts existing conditions as appropriate for work.

3.3 CONDITIONS
- A. Exterior: Apply sealants when temperature is between 40 and 100 degrees F.
- B. Interior: Do not install solvent curing sealants in enclosed building spaces. Maintain temperature and humidity recommended by sealant manufacturer during and after installation.

3.4 PREPARATION
- A. Perform in accord with ASTM C804 for solvent release and C790 for latex base sealants. Remove loose materials and foreign matter which might impair adhesion of sealant. Clean and prime joints in accord with manufacturer's instructions. Verify that joint backing and release tapes are compatible with sealant. Protect elements surrounding work of this Section from damage or disfiguration.
- B. Joint Backing: Install to achieve neck dimension no greater than 1/3 joint width.
- C. Bond Breaker: Install where joint backing is not used.
- D. Masking Tape: Place on finish surface on one or both sides of joint cavity to protect adjacent finish surfaces from compound smears. Remove within 10 minutes after joint has been filled and tooled.
- E. Primer: Use in accord with manufacturer's instructions. Test for staining on samples of actual surfaces to be sealed prior to application.

3.5 INSTALLATION
- A. General: Conform to SWI requirements for installation and with manufacturer's instructions. Measure joint dimensions and size materials to achieve required width/depth ratios.

3.6 FINISHING
- A. Tool joints slightly concave unless shown otherwise on the Drawings. When tooling white or light color sealant, use dry or water wet tool.

3.7 CLEANING AND REPAIRING
- A. Remove masking tapes and clean adjacent soiled surfaces. Repair or replace defaced or disfigured finishes caused by work of this Section.

3.8 PROTECTION OF COMPLETED WORK
- A. Protect sealants until cured.

END OF SECTION C07920

DIVISION 8 - DOORS AND WINDOWS

SECTION - C08110: STANDARD STEEL DOORS AND FRAMES

PART I - GENERAL

1.1 SUMMARY
- A. All doors and frames in this section are to be supplied and installed by the General Contractor through the Owner's National Account Vendor, refer to National Account list.
- B. Section Includes:
  1. Pressed steel hollow metal doors and frames.
  2. Hollow metal frames for Plastic Laminate doors.
  3. Metal louvers in hollow metal doors.
  4. Hollow metal frame reinforcing, door reinforcing, door inslulation, closer reinforcements, clips angles and anchorage.
  5. Factory prime paint finish.

1.2 RELATED SECTIONS
- A. Unit Masonry Assemblies (Grout): Section C04810
- B. Plastic Laminate Faced Doors: SECTION C08210
- C. Finish Door Hardware: SECTION C08710
- D. Glazing: SECTION C08800
- E. Painting: SECTION C09910

1.3 QUALITY ASSURANCE
- A. Applicable Standards: Specifications and standards of SDI 100-98.
- B. Wind Load Performance Requirements: All exterior doors and frames must meet design pressure provided by the Architect/Engineer for this project.
- C. Supplier Qualification: Qualified direct distributor of products to be furnished. The distributor shall have in their regular employment an A.H.C./C.D.C. or person of equivalent experience who will be available at reasonable times to consult with the Architect, Contractor and/or Owner regarding any matters affecting the total door and frame openings.
- D. Installer Qualification: Experience with installation of similiar materials.

1.3 SUBMITTALS
- A. Product Data: Include construction details, material descriptions, core descriptions, label compliance, fire-resistance rating, and finishes for each type of steel door and frame specified.
- B. Product test reports.
- C. Shop Drawings: Provide a schedule of standard steel doors and frames using same reference numbers for details and openings as those on the drawings.

2.1 PRODUCT HANDLING
- A. Deliver hollow metal doors in manufacturer's protective covering. Handle hollow metal with care to prevent damage.
- B. Door Storage: Store doors in upright position, under cover. Place doors on 4-inch minimum high wood sills or on floors in manner that will prevent rust and damage. Do not use non-vented plastic or canvas shelters which create humidity chamber and promote rusting. If corrugated wrapper on door becomes wet, or moisture appears, remove wrapping immediately. Provide 1/4-inch space between doors to promote aire circulation.
- C. Frame Storage: Store frames under cover on 4-inch minimum wood sills or on floors in manner that will prevent rust and damage. Don not use non-vented plastic or canvas shelters which create humidity chamber and promote rusting. Store assembled frames in vertical position, 5 units maximum in stack. Provide 1/4-inch space between frames to promote air circulation.

PART II - PRODUCTS

2.1 MANUFACTURERS
- A. HOLLOW METAL SUPPLIER CONTACT INFORMATION:
  Looknet,
  100 Courchelle Drive
  Nickolasville, KY 40356
  ATTN: Jefff Kirkner (856) 887-9119 ext. 131

2.2 HOLLOW METAL
- A. Acceptable Manufactures:
  1. Steelcraft an Ingersoll-Rand Company, "L-Series"
  2. Amweld Building Products, Inc,
  3. Ceco Door Products; an ASSA ABLOY Group Company
- B. Cold-Rolled Steel Sheet: Commercial quality, stretcher leveled flatness, cold-rolled steel, free from scale, pitting or other surface defects, compying with ASTM A366 and A568 general requirements.
- C. Galvanealed Steel Sheets: ASTM A924, A60 zinc coating. Use galvenealed steel sheets for exterior hollow metal doors, door frames and door louvers. Internal reinforcing may be manufactured of hot rolled pickled and oiled steel per ASTM-A569.
- D. Coating materials, primer: Use manufacturer's standard rust inhibiting primer conforming to ANSI-A224.1-1990.

2.3 RELATED MATERIALS
- A. Supports and Anchors: After fabricating, galvanize unists to be built into exterior walls according to ASTM A 153/A 153M, Class B.
- B. Inserts, Bolts and Anchors: Provide items to be built into exterior walls, hot-dip galvanized according to ASTM A 153/A 153M/
- C. Power-Actuated Fasteners in Concrete: Fastener system of type suitable for application indicated, fabricated from corrosion-resistant materials, with clips or other accessory devises for attaching standard steel door frames of typ indicated.
- D. Bituminous Coating: cold-applied asphalt mastic, SSPC-Paint 12, compounded for 15-mil dry film thickness per coat. Provide inert-type noncorrosive compound free of asbestos fibers, sulfur components, and other deleterious impurities.

2.4 STANDARD STEEL DOORS
- A. General: Provide doors of design indicated, not less than thickness indicated; fabricated with smooth surfaces, without visible joints or seams on exposed faces. Comply with ANSI A250.8.
  1. Core Construction: Manufacturer's standard polystyrene core that produces doors complying with ANSI A250.8.
  2. Vertical Edges for Single-Acting Doors: Beveled edge.
     a. Beveled Edge: 1/8 inch in 2 inches (3 mm in 50 mm).
  3. Top and Bottom Edges: Closed with flush or inverted 0.042-inch- (1.0-mm-) thick end closures or channels of same material as face sheets.
- B. Exterior Doors: Face sheets fabricated from metallic-coated steel sheet. Provide doors complying with requirements indicated below by referencing ANSI A250.8 for level and model and ANSI A250.4 for physical-endurance level:
  1. Level 3 and Physical Performance Level A (Extra Heavy Duty), Model 2 (Seamless).
- C. Interior Doors: Face sheets fabricated from cold-rolled steel sheet, unless otherwise indicated to comply with exterior door requirements. Provide doors complying with requirements indicated below by referencing ANSI A250.8 for level and model and ANSI A250.4 for physical-endurance level:
  1. Level 2 and Physical Performance Level B (Heavy Duty), Model 2 (Seamless).

2.5 STANDARD STEEL FRAMES
- A. General: Comply with ANSI A250.8 and with details indicated for type and profile.
- B. Exterior Frames: Fabricated from metallic-coated steel sheet.
  1. Frames for Level 3 Steel Doors: 14 GA. steel sheet.
- C. Interior Frames: Fabricated from cold-rolled steel sheet, unless otherwise indicated to comply with exterior frame requirements.
  1. Frames for Level 2 Steel Doors: 16 GA. steel sheet.
  2. Frames for Laminate Doors: 0.053-inch (1.3 mm) thick steel sheet.
- D. Supports and Anchors: Fabricated from electrolytic zinc-coated or metallic coated steel sheet.
- E. Jamb Anchors: Masonry, stud-wall, compression, or postinstalled expansion type; not less than 0.042 inch (1.0 mm) thick.
- F. Floor Anchors: Formed from same material as frames, not less than 0.042 inch (1.0 mm) thick.
- G. Plaster Guards: Formed from same material as frames, not less than 0.016-inch (0.4-mm) thick.

2.6 FABRICATION
- A. General: Fabricate standard steel doors and frames to be rigid and free of defects, warp, or buckle. Accurately form metal to required sizes and profiles, with minimum radius for thickness of metal. Where practical, fit and assemble units in manufacturer's plant. To ensure proper assembly at Project site, clearly identify work that cannot be permanently factory assembled before shipment. Reinforce as required to support loads imposed by door operation and for installing hardware.
- B. Standard Steel Doors:
  1. Exterior Doors: Provide weep-hole openings in bottom of exterior doors to permit moisture to escape. Seal joints in top edges of doors against water penetration.
  2. Glazed Lites: Factory cut openings in doors.
- C. Standard Steel Frames: Where frames are fabricated in sections due to shipping or handling limitations, provide alignment plates or angles at each joint, fabricated of same thickness metal as frames.
  1. Welded Frames: Weld flush face joints continuously; grind, fill, dress, and make smooth, flush, and invisible.
  2. Provide countersunk, flat- or oval-head exposed screws and bolts for exposed fasteners, unless otherwise indicated.
  3. Plaster Guards: Weld guards to frame at back of hardware mortises in frames installed in concrete or masonry.
  4. Floor Anchors: Weld anchors to bottom of jambs and mullions with at least four spot welds per anchor.
  5. Jamb Anchors: Locate anchors not more than 18 inches (457 mm) from top and bottom of frame. Space anchors not more than 32 inches (813 mm) o.c.
  6. Door Silencers: Except on weather-stripped doors, drill stops to receive door silencers as follows. Provide plastic plugs to keep holes clear during construction.
- D. Hardware Preparation: Factory prepare standard steel doors and frames to receive templated mortised hardware; include cutouts, reinforcement, mortising, drilling, and tapping, according to the Door Hardware Schedule and templates furnished as specified on the drawings.
  1. Comply with applicable requirements in ANSI A250.6 and ANSI/DHI A115 Series specifications for door and frame preparation for hardware. Locate hardware as indicated on Shop Drawings or, if not indicated, according to ANSI A250.8.
- E. Stops and Moldings: Provide stops and moldings around glazed lites where indicated. Form corners of stops and moldings with butted or mitered hairline joints.
  1. Provide fixed stops and moldings welded on secure side of door or frame.
  2. Provide loose stops and moldings on inside of doors and frames.

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CIVIL ENGINEERING PLANNING
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11/12/2025

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FSR#05484

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DATE 10/20/2025
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SHEET
SPECIFICATIONS

SHEET NUMBER
A-906

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FINISHES

A. Steel Finish: Factory priming for field-painted finish.

1. Shop Primer: Manufacturer's standard, fast-curing, lead- and chromate-free primer complying with ANSI A250.10 acceptance criteria.

PART III - EXECUTION

3.1 INSTALLATION

A. Remove welded-in shipping spreaders installed at factory.

B. Provide doors and frames of sizes, thicknesses, and designs indicated. Install standard steel doors and frames plumb, rigid, properly aligned, and securely fastened in place; comply with Drawings and manufacturer's written instructions.

C. Standard Steel Frames: Install standard steel frames for doors and other openings, of size and profile indicated. Comply with SDI 105.

1. Set frames accurately in position; plumbed, aligned, and braced securely until permanent anchors are set. After wall construction is complete, remove temporary braces, leaving surfaces smooth and undamaged.

a. At fire-protection-rated openings, install frames according to NFPA 80.

b. Apply bituminous coating to backs of frames that are filled with mortar, grout, and plaster containing antifreezing agents.

2. Metal-Stud Partitions: Solidly pack mineral-fiber insulation behind frames.

3. Masonry Walls: Coordinate installation of frames to allow for solidly filling space between frames and masonry with mortar as specified in Unit Masonry Assemblies.

4.. Concrete Walls: Solidly fill space between frames and concrete with grout. Install grout in lifts and take precautions, including bracing frames, to ensure that frames are not deformed or damaged by grout forces.

D. Standard Steel Doors: Fit hollow-metal doors accurately in frames. Shim as necessary.

1. Fire-Rated Doors: Install doors with clearances according to NFPA 80.

E. Glazing: Comply with installation requirements and with standard steel door and frame manufacturer's written instructions.

F. Final Adjustments: Check and readjust operating hardware items immediately before final inspection. Leave work in complete and proper operating condition. Remove and replace defective work, including standard steel doors or frames that are warped, bowed, or otherwise unacceptable.

G. Prime-Coat Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat and apply touchup of compatible air-drying primer.

END OF SECTION C08110

SECTION C08210: PLASTIC LAMINATE FACED DOORS

PART I - GENERAL

1.1 SUMMARY

A. All doors in this section are to be supplied and installed by the General Contractor through the Owner's National Account Vendor, refer to National Account List.

B. Sections Includes:

1. Plastic Laminated Faced Doors

1.2 RELATED SECTIONS

A. Hollow Metal Doors and Frames: SECTION C08110

B. Finish Door Hardware: SECTION C08710

1.3 REFERENCES

A. AWI P-200 - Architectural Woodwork Quality Standards Illustrated; 1997, Seventh Edition, Version 1.0.

B. WDMA NWWDA I.S.1-A - Architectural Wood Flush Doors; 1997.

1.4 SUBMITTALS

A. Submit under provisions of Section 01300.

B. Shop Drawings: Door and frame schedule.

C. Specimen Warranty.

1.5 WARRANTY

A. Provide manufacturer's written warranty that doors will be free of defects for the period specified under normal use. Adhere to manufacturer's requirements to avoid voiding warranty.

PART II - PRODUCTS

2.1 MANUFACTURERS

A. PLASTIC LAMINATE FACED DOOR SUPPLIER CONTACT INFORMATION:
Lockmet.
100 Courchelle Drive
Nickolasville, KY 40356
ATTN: Jeff Kirkner (856) 887-9119 ext. 131

2.2 MATERIALS

A. Non-Fire-Rated Solid Core Doors: Flush wood doors faced with NEMA LD 3, Grade HGS (0.050-inch thick) high pressure plastic laminate.

1. Type: Particleboard core type, complying with AWI Type PC-HPDL-3 and WDMA NWWDA I.S.1-A; with average 30 pcf (480 kg/cu m) density core complying with ANSI A208.1 Grade LD-1.

a. Crossbanding: 1/10 inch (2.5 mm) thick 3-ply wood crossbanding.

b. Face Backer: 1/10 inch (2.5 mm) thick hardboard face backer.

2. Facing Color: See drawings.

3. Edge Banding: Matching laminate.

4. Total Thickness: 1-3/4 inches (44 mm).

5. Core Edges: Structural composite lumber.

6. Stiles and Rails: Solid hardwood lumber.

7. Stile Width: 1-3/8 inches (35 mm) before trimming.

8. Top Rail Height: 1-3/8 inches (35 mm) before trimming.

9. Bottom Rail Height: 1-3/8 inches (35 mm) before trimming.

10. Adhesive: Type I, waterproof & urea-free.

2.3 FABRICATION

A. Doors: Factory fit doors to suit frame-opening sizes indicated, with the following uniform clearances and bevels, unless otherwise indicated.

1. Comply with clearance requirement standards for non rated door fitting.

2. Factory machine doors for hardware that is not surface applied. Coordinate measurements of hardware mortises in metal frames to verify dimensions and alignment before factory machining.

B.

2.4 QUALITY CONTROL

A. Face Plane Tolerance (Telegraphing): Variation in surface of face not more than 1/100 inch from true plane in any 3 inch span.

B. Warp Tolerance: Bow, cup, and twist not more than 1/4 inch in any 42 inches wide by 84 inches high area, or less, if door dimensions are smaller; excluding doors less than 1-3/4 inch thick that are over 36 inches wide or 84 inches high and doors with cutouts exceeding manufacturer's specified limits.

PART III - EXECUTION

3.1 PREPARATION

A. Verify that frames comply with indicated requirements for type, size, location, and swing characteristics and have been installed with level heads and plumb jambs.

INSTALLATION 2.4

A. Install all materials in strict accordance with the manufacturer's installation instruction with doors in frame plumb and true, without rack, and so doors do not fall open or closed simply due to gravity.

1. Install door frames with specified.

2. Install door hardware as specified.

FIELD QUALITY CONTROL 3.3

Installation Tolerances: Install non fire-rated doors with not more than 1/8-inch clearance at top and sides, 1/4-inch at bottom.

ADJUSTING, CLEANING AND PROTECTION 3.4

A. Operation: Adjust door and frame for free operation without binding, rack, or warp. Re-hand or replace doors that do not swing or operate freely.

B. Clean and remove dust and other foreign matter from panel and framing surfaces. Clean finishes in accordance with manufacturer's instructions.

C. Project installed doors until completion of project.

END OF SECTION C08210

SECTION - C08320: FRP FLUSH DOORS

PART I - GENERAL

SECTION INCLUDES

Fiberglass reinforced polyester (FRP) flush doors with aluminum frames.

RELATED SECTIONS

B. Standard Steel Door and Frames: SECTION C08110

PERFORMANCE REQUIREMENTS 1.3

A. General: Provide door assemblies that have been designed and fabricated to comply with specified performance requirements, as demonstrated by testing manufacturer's corresponding standard systems.

Air Infiltration: For a single door 3'-0" x 7'-0", test specimen shall be tested in accordance with ASTM E 283 at pressure differential of 6.24 psf. Door shall not exceed 0.90 cfm per linear foot of perimeter crack.

Water Resistance: For a single door 3'-0" x 7'-0", test specimen shall be tested in accordance with ASTM E 331 at pressure differential of 7.50 psf. Door shall not have water leakage.

Thermal Transmission, Exterior Doors, U-Value, AAMA 1503-98: Maximum of 0.29 BTU/hr x sf x degrees F. Minimum of 55 CRF value.

Surface Burning Characteristics, FRP Doors and Panels. ASTM E 84: Flame Spread: Maximum of 200, Class C.

PART I - GENERAL 1.4

SUMMARY

A. Product Data: Submit manufacturer's product data, including description of materials, components, fabrication, finishes, and installation.

WARRANTY 1.5

Warrant doors, frames, and factory hardware against failure in materials and workmanship, including excessive deflection, faulty operation, defects in hardware installation, and deterioration of finish or construction in excess of normal weathering.

Warranty Period: Ten years starting on date of shipment. In addition, a limited lifetime (while the door is in its specified application in its original installation) warranty covering: failure of corner joinery, core deterioration, delamination or bubbling of door skin.

PART II - PRODUCTS 1.2

MANUFACTURER 2.1

Special-Lite, Inc., Decatur, Michigan 49045.

FRP FLUSH DOORS

Model: SL-17 Flush Doors with SpecLite3 fiberglass reinforced polyester (FRP) face sheets.

Construction: 2.1

1. Door Thickness: 1-3/4 inches.

2. Stiles and Rails: Aluminum extrusions made from prime-equivalent billet that is produced from 100% reprocessed 6063-T6 alloy recovered from industrial process, minimum of 2-5/16-inch depth.

3. Corners: Mitered.

4 Provide joinery of 3/8-inch diameter full-width tie rods through extruded splines top and bottom integral to standard tubular shaped stiles and rails reinforced to accept hardware as specified. 2.2

5. Securing Internal Door Extrusions: 3/16-inch angle blocks and locking hex nuts for joinery. Welds, glue, or other methods are not acceptable.

6. Furnish extruded stiles and rails with integral reglets to accept face sheets. Lock face sheets into place to permit flush appearance.

7. Rail caps or other face sheet capture methods are not acceptable.

8. Extrude top and bottom rail legs for interlocking continuous weather bar.

9. Meeting Stiles: Pile brush weatherseals. Extrude meeting stile to include integral pocket to accept pile brush weatherseals.

10. Bottom of Door: Install bottom weather bar with nylon brush weatherstripping into extruded interlocking edge of bottom rail.

11. Glue: Use of glue to bond sheet to core or extrusions is not acceptable.

Face Sheet:

1. Material: SpecLite3 FRP, 0.120-inch thickness, finish color throughout.

2. Protective Coating: Abuse-resistant engineered surface. Provide FRP with SpecLite3 protective coating, or equal.

3. Texture: Pebble.

4. Adhesion: The use of glue to bond face sheet to foam core is prohibited.

Core:

1. Material: Poured-in-place polyurethane foam.

2. Density: Minimum of 5 pounds per cubic foot.

3. R-Value: Minimum of 9.

Cutouts:

1. Factory install vision lites, louvers, and panels. 3.1

Hardware:

1. Premachine doors in accordance with templates from specified hardware manufacturers and hardware schedule. No exceptions will be allowed.

MATERIALS 2.3

Aluminum Members: 3.2

1. Aluminum extrusions made from prime-equivalent billet that is produced from 100% reprocessed 6063-T6 alloy recovered from industrial processes: ASTM B 221.

2. Sheet and Plate: ASTM B 209.

3. Alloy and Temper: As required by manufacturer for strength, corrosion resistance, application of required finish, and control of color.

Components: Door and frame components from same manufacturer.

Fasteners:

1. Material: Aluminum, 18-8 stainless steel, or other noncorrosive metal.

2. Compatibility: Compatible with items to be fastened.

3. Exposed Fasteners: Screws with finish matching items to be fastened.

ALUMINUM DOOR FRAMING SYSTEMS

Tubular Framing:

1. Size and Type: As indicated on the Drawings.

2. Materials: Aluminum extrusions made from prime-equivalent billet that is produced from 100% reprocessed 6063-T6 alloy recovered from industrial processes, 1/8-inch minimum wall thickness. 1.1

3. Applied Door Stops: 0.625-inch high, with screws and weatherstripping. Door stop shall incorporate pressure gasketing for weather seal. Counterpunch fastener holes in door stop to preserve full metal thickness under fastener head. 1.2

4. Frame Members: Box type with 4 enclosed sides. Open-back framing in not acceptable.

5. Caulking: Caulk joints before assembling frame members.

6. Joints:

a. Secure joints with fasteners.

b. Provide hairline butt joint appearance.

7. Field Fabrication: Field fabrication of framing using stick material is not acceptable. 1.3

8. Applied Stops: For side, transom, and borrowed lites and panels. Applied stops shall incorporate pressure gasketing for weathering seal. Reinforce with solid bar stock fill for frame hardware attachments.

9. Hardware:

a. Premachine and reinforce frame members for hardware in accordance with manufacturer's standards and hardware schedule.

10. Anchors: 2.1

a. Anchors appropriate for wall conditions to anchor framing to wall materials.

b. Door Jamb and Header Mounting Holes: Maximum of 24-inch centers.

c. Secure head and sill members of transom, side lites, and similar conditions. 2.2

Frame Capping:

1. Model: SL-70.

2. Capping: With insert frame as indicated on the Drawings.

3. Finish: Match framing.

HARDWARE

A. Premachine doors in accordance with templates from specified hardware manufacturers and hardware schedule.

VISION LITES 2.3

Factory Glazing: 1/4-inch glass

Lites in Exterior Doors: Allow for thermal expansion.

ALUMINUM FINISHES

Anodized Finish: Class I finish, 0.7 mils thick. See Drawings for finish.

PART III - EXECUTION

INSTALLATION

A. Install doors in accordance with manufacturer's instructions. 3.1

B. Install doors plumb, level, square, true to line, and without warp or rack.

C. Anchor frames securely in place.

D. Separate aluminum from other metal surfaces with bituminous coatings or other means approved by Architect. 3.2

END OF SECTION C08320

SECTION - C08306: ACCESS PANELS 3.3

PART I - GENERAL

SECTION INCLUDES

A. Flush mounted access panels.

RELATED SECTIONS

A. Metal Fabrications: SECTION C05500

B. Gypsum Board Systems: SECTION C09250

C. Rough Carpentry: SECTION C06000

D. Painting: SECTION C09910

PART II - PRODUCTS

MANUFACTURER

Interior Access Panels: 1.1

1. Larsen Manufacturing Co, Minneapolis, MN 55432

2. MIFBA, Chicago, IL 60643

3. Substitutions are allowed as described in SECTION C01030

Exterior Access Panels:

1. JL Industries, Bloomington, MN 55435

ACCESS PANELS

Interior: Access panels shall meet or exceed the following:

1. Size: 16 x 16 or as indicated on the drawings

2. Material:

a. Door: 14 gage galvanized steel, minimum

b. Frame: 16 gage steel, minimum

Hardware:

a. Hinges: Concealed.

b. Locks: Flush screw driver operated steel cam.

Anchors: Manufacturer's standard for use intended.

Finish: Phosphate dipped steel with factory prime coat.

Exterior: Model XPA weather resistant flush access panel

Material:

a. Door: 2-inch thick insulated .040 aluminum

b. Insulation: Fiberglass

c. Frame: 16 gauge galvanized steel frame with 1-inch hinge

Hardware:

a. Hinge: Continuous stainless steel piano hinge

Handle: Provide (2) non-locking (H) die-cast zinc handles with chrome plating

Gasket: EPDM foam rubber bulb seal

Anchors: Manufacturer's standard for use intended.

Powdercoat Finish: Bronze (B)

Provide spring chain to prevent door swinging more than 110 degrees.

PART III - EXECUTION

INSTALLATION

Protect access panels from damage. Protect work of other trades during installation. Install access panels in locations indicated, complete in all details, securely anchored in place, plumb, level and parallel with building lines. Finally installed access panels shall open and close freely.

CLEAN-UP

A. Upon completion of work of this Section, remove all debris relating to the conduct of this portion of the work from the premises.

END OF SECTION C08306

SECTION - C08344: TRAFFIC DOORS

PART I - GENERAL

SUMMARY 1.3

A. Light to medium duty traffic doors.

SUBMITTALS

Submit under provisions of SECTION C01300.

B. Product Data: Manufacturer's data sheets on each product to be used, including:

1. Preparation instructions and recommendations.

2. Storage and handling requirements and recommendations.

3. Installation methods.

4. Operation and maintenance data.

WARRANTY 1.4

A Project Warranty: Refer to "Conditions of the Contract" for project warranty provisions.

B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by an authorized company official.

1. Warranty Period: Manufacturer's one (1) year standard warranty commencing on the Substantial date of Completion.

PART II - PRODUCTS

MANUFACTURERS 2.1

A. Acceptable Manufacturers:

1. YKK AP America Inc. (National Account)

2. Kawneer North America. (National Account)

3. Substitutions will not be accepted.

B. Storefront Framing System: Exterior Applications

1. Storefront System:

a. YKK AP YES / YES 45 TU Center Set Storefront System

b. Kawneer Trifab VG 451T Framing System

2. Description: Center set, exterior flush glazed; jambs and vertical mullions continuous; head, sill, intermediate horizontal attached by screw spline joinery or shear block attachment.

3. Components: Manufacturer's standard extruded aluminum mullions, 90 degree corner posts, entrance door framing, and indicated shapes.

4. Thermal Barriers:

a. YKK - Provide continuous thermal barrier by means of a poured and debridged pocket consisting of a two-part, chemically curing high density polyurethane which is bonded to the aluminum by YKK Therma Bond Plus®. Systems employing non-structural thermal barriers are not acceptable.

b. Kawneer - IsoLock™ Thermal Break with a 1/4" (6.4 mm) separation consisting of a two-part chemically curing, high-density polyurethane, which is mechanically and adhesively joined to aluminum storefront sections.

C. Storefront Framing System: Interior Applications

1. Storefront System:

a. YKK AP YES / YES 45 TU Center Set Storefront System

b. Kawneer Trifab VG 451T Framing System

2. Description: Center set, exterior flush glazed; jambs and vertical mullions continuous; head, sill, intermediate horizontal attached by screw spline joinery or shear block attachment.

3. Components: Manufacturer's standard extruded aluminum mullions, 90 degree corner posts, entrance door framing, and indicated shapes.

4. Thermal Barriers:

a. YKK - Provide continuous thermal barrier by means of a poured and debridged pocket consisting of a two-part, chemically curing high density polyurethane which is bonded to the aluminum by YKK Therma Bond Plus®. Systems employing non-structural thermal barriers are not acceptable.

b. Kawneer - IsoLock™ Thermal Break with a 1/4" (6.4 mm) separation consisting of a two-part chemically curing, high-density polyurethane, which is mechanically and adhesively joined to aluminum storefront sections.

D. Entrance System:

1. Standard:

a. YKK AP Series 20D Narrow Stile

b. Kawneer 190 Narrow Stile

2. Thermal (where required by code):

a. YKK AP Series 35XT Medium Stile

b. Kawneer Insulpour 250T Narrow Stile

MATERIALS 2.2

A. Aluminum Extrusions: ASTM B 221 (ASTM B 221M), 6063-T6 Aluminum Alloy.

B. Aluminum Sheet:

1. Anodized Finish: ASTM B 209 (ASTM B 209M), 5005-H14 Aluminum Alloy, 0.050-inch (1.27 mm) minimum thickness.

2. Painted Finish: ASTM B 209 (ASTM B 209M), 3003-H14 Aluminum Alloy, 0.080-inch (1.95 mm) minimum thickness.

ACCESSORIES 2.3

A. Manufacturer's Standard Accessories:

1. Fasteners: Aluminum, nonmagnetic stainless steel or other materials to be non-corrosive and compatible with aluminum framing members, trim hardware, anchors, and other components

2. Glazing: As secified in Division 08, Section "Glazing".

3. Glazing Gaskets: Glazing gaskets in accordance with ASTM C864.

4. Spacers and Setting Blocks: Setting blocks, edge blocks, and spacers in accordance with ASTM C864, shore durometer hardness as recommended by manufacturer

5. Flashing: 0.050 Aluminum Sill Flashing End Dams must have 3 point attachment.

6. Provide rubber safety gasket in Playground along sills and up full height along sides.

B. Refer to drawings for door hardware requirements.

FINISHES AND COLORS 2.4

A. Colors by Manufacturer

1. YKK - YB5N Dark Bronze Anodized Plus

2. Kawneer - #40 Dark Bronze

3. Verify finish color with drawings.

B. Anodized Finishing by Manufacturer

1. Anodic Coating: Electrolytic color coating shall be a minimum of .7 mils.

C. Top Coat by Manufacturer

PART III - EXECUTION

MANUFACTURER'S INSTRUCTIONS / RECOMMENDATIONS 3.1

A. Compliance: Comply with manufacturer's product data, including product technical bulletins, installation instructions, and product carton instructions.

1. The latest YKK installation manual is available at www.ykkap.com

2. The latest Kawneer installation manual is available at www.kawneer.com

INSTALLATION 3.2

General: Install system in accordance with manufacturer's published instructions, shop drawings, and within specified tolerances.

A. Provide sill flashing at exterior storefront systems. Extend extruded flashing continuous with splice joints; set in continuous beads of sealant.

ADJUSTING AND CLEANING 3.3

A. Adjusting: Adjust swing doors for operation in accordance with manufacturer's recommendations.

B. Cleaning: The General Contractor shall clean installed products in accordance with manufacturer's instructions prior to owner's acceptance, and remove construction debris from project site. Legally dispose of debris.

END OF SECTION C08411

WARE MALCOMB
ARCHITECTURE INTERIORS
CIVIL ENGINEERING PLANNING BRANDING MEASUREMENT
915 Wilshire Blvd. Suite #2150
Los Angeles, CA 90017
P 310.900.4000

KEVIN T. EVERNHAM 3199 SCOTTSDALE, AZ STATE OF MONTANA REGISTERED ARCHITECT
11/12/2025

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

CHICK-FIL-A
CUSTER & WASHINGTON
2770 N WASHINGTON STREET
HELENA, MONTANA 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
PRINTED FOR
PERMIT RESUBMITTAL

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

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THIS SET OF APPROVED PLANS TO BE ON JOB SITE AT ALL TIMES

CONSULTANT PROJECT # LAX22-0129-01
DATE 10/20/2025
DRAWN BY M.M.O./ K.G.

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SHEET
SPECIFICATIONS

SHEET NUMBER
A-907

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SECTION - C08460: AUTOMATIC ENTRANCE DOORS

PART I - GENERAL

1.1 SUMMARY
A. Section Includes: Furnishing and installing factory fabricated and finished automatic sliding door system(s).
B. Related Sections:
1. Unit Masonry Assemblies: SECTION C04810
2. Sealants and Caulks: SECTION C07920
3. Glazing: SECTION C08800
4. Electrical Division 16 - See Electrical Drawings

1.2 REFERENCES
A. ANSI/UL 325 – Door, Drapery, Gate Louver and Window Operators and Systems
B. ANSI Z97.1 Safety Glazing Material Used in Buildings – Methods of Test.
C. ASTM B221 Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Shapes and Tubes.
D. NFPA 101 Life Safety Code
E. Builders' Hardware Manufacturers Association (BHMA)
F. International Standards Organization (ISO)
G. American Association of Automatic Door Manufacturers (AAADM)

1.3 SUBMITTALS
A. Product Data: Provide manufacturer's product and complete installation data for all materials in this specification
B. Shop drawings: Show profiles, joining method, location of components, anchorage details, adjacent construction interface, and dimensions as well as all necessary wiring and electrical requirements
C. Samples: Sized to adequately represent material
D. Contract Closeout: Submit the Manufacturer's warranty and performance certifications [if applicable]
E. Installation Guide: Provide written installation and operating manuals and/or installation recommendations.

1.4 QUALITY ASSURANCE
A. Automatic sliding door system shall be CERTIFIED by the manufacturer to meet performance design criteria according to the following test standards: [select, if applicable]
1. ANSI A156.10
2. NFPA 101
3. Underwriter's Laboratories (UL) listed. C-UL certified (equivalent to CSA certified)
4. TORMAX® 2301 Direct Drive System: Shall be manufactured in an ISO 9001 registered manufacturing facility

1.5 PRODUCT HANDLING
A. All materials shall arrive in the manufacturer's original sealed, labeled containers.
B. Store materials in a dry, protected, well-vented area. Report damaged material immediately to the delivering carrier and note such damage on the carrier's freight bill of lading.
C. Remove all protective materials after installation.

1.6 SUBSTITUTIONS
A. Proposals for substitution products will not be accepted.

1.7 JOB CONDITIONS
A. Verify that other trades are complete before installing the automatic sliding door system.
B. Mounting surfaces shall be plumb, straight and secure; substrates shall be of proper dimension and material.
C. Refer to the construction documents, shop drawings and manufacturer's installation instructions.
D. Coordinate installation with the glass, glazing and electrical work.
E. Observe all appropriate OSHA safety guidelines for this work.

1.8 WARRANTY/GUARANTEE
A. Manufacturer's Standard Warranty: Warranted materials shall be free of defects in material and workmanship for one year after installation.

PART II - PRODUCTS

2.1 MANUFACTURER
A. Tormax USA Inc., San Antonio, TX 78247 (See National Accounts); No substitutions

2.2 AUTOMATIC SLIDING DOOR SYSTEMS
A. Automatic Sliding Door System: Shall be TORMAX Series TX9200. The system shall consist of sliding aluminum door(s) and sidelight(s), header, jambs, TORMAX iMotion® 2301 direct drive system, doorway holding beams and TORMAX 7501 Sensors. The system shall be completely engineered, manufactured and assembled by TORMAX. All components shall be factory assembled in the header, adjusted and tested. No field wiring or operator adjustment shall be required other than the connection to job-site power. The TORMAX iMotion® 2301direct drive system shall automatically adjust door speeds to compensate for various door sizes, weights and environmental conditions.

2.3 OPERATING CONDITIONS
A. Climatic Conditions: All automatic sliding door system components shall operate between –30 and +130 degrees F (-34 and +54 degrees C) in all climatic conditions.

PART III - EXECUTION

3.1 INSPECTION
A. Verify that the automatic sliding door system installation will not disrupt other trades. The door installer shall verify that the installation area is dry, clean and free of foreign matter. Check as-built conditions and verify the manufacturer's automatic sliding entrance system details for accuracy to fit the wall assembly prior to fabrication. Report in writing to the Contractor any detrimental conditions to the proper functioning of the automatic sliding door system. Installation shall proceed once the unsatisfactory conditions have been corrected in accordance to the manufacturer's recommendations.

3.2 INSTALLATION OF THE TORMAX TX9200 AUTOMATIC SLIDING ENTRANCE SYSTEMS
A. Installation shall be by an installer approved and trained by the manufacturer in strict accordance with the manufacturer's instructions and fire marshall's listing requirements.
B. Comply with the automatic sliding door system manufacturer's recommendations and/or installation and operating manuals when installing the automatic sliding door system. Set all units plumb, level and true.
C. Provide all fasteners required for installation of the automatic sliding door system.
D. Cleaning: Clean all metal surfaces promptly after installation.
E. Explain and review the Daily Safety Check Procedure.

END OF SECTION C084229

SECTION - C08580: PASS-THRU WINDOWS

PART I - GENERAL

1.1 SUMMARY
A. Section Includes: Aluminum automatic pass-thru service windows.

1.2 RELATED SECTIONS
A. Unit Masonry Assemblies: SECTION C04810
B. Sealants and Caulks: SECTION C07920
C. Glazing: SECTION C08800
Electrical Division 16 - See Electrical Drawings

1.3 REFERENCES
A. American Architectural Manufacturer's Association (AAMA):
1. ANSI/AAMA 101: Voluntary Specs. for Aluminum & Poly Vinyl Chloride Prime Windows & Glass Doors
American National Standards Institute (ANSI):
1. ANSI Z97.1: Safety Glazing Materials Used in Buildings - Safety Performance Specs & Methods of Test

1.4 SYSTEM OF DESCRIPTION
A. Performance Requirements: Provide automatic aluminum windows which have been manufactured, fabricated, and installed to maintain performance criteria by manufacturer without defects, damage, or failure.

1.5 SUBMITTALS
A. Product Data: Submit manufacturer's product data and standard details for automatic and manual windows for project closeout.
B. Quality Assurance Submittals and Closeout Submittals: Submit the following:
1. Manufacturer's Installation instructions and Operation and Maintenance Data.
2. Warranty document as specified herein.

1.6 WARRANTIES
A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.
B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document. Manufacturer's warranty is in addition to, and not a limitation of, other rights owner may have under the Contract Documents.
1. Warranty Period: One year warranty shall be provided commencing on Date of Substantial Completion. Distributor's Warranty: The installing distributor shall provide one-year warranty covering the labor and transportation charges for defective parts replacement.

PART II - PRODUCTS

2.1 MANUFACTURERS
A. Quickserv Corp, Houston, TX 40466 (See National Accounts). No substitutions.
1. Model BP-7241E (Bi-Parting Horizontal Sliding Windows Unit):
a. Service Opening: 29-1/2 inches (w) x 32 inches (h)
b. Rough Opening: 72-1/2 inches (w) x 41-1/2 inches (h)
c. Operation Sensor
1. Thru-Beam Horizontal Eye Bar
2. Push Button
d. Glazing: 5/8-inch laminated
e. Finish: As indicated on the drawings
f. Meets Performance Requirements of CMSBO, Section 15 50 100, Texts CAWM 301-90, Forced Entry Resistance Test for Windows, and ASTM F588.
g. Hook Lock: Adam's Rite

2.2 EQUIPMENT
A. Window Unit Components:
1. Header: Aluminum, 4 inch deep by 6 inch high with removable face plate.
2. Track: Aluminum, 1/4 inch wide, nylon covered, replaceable.
3. Rollers: Steel, high quality ball bearing wheels 1-1/4 inch in diameter.
4. Sliding panel(s) and fixed panel(s): Aluminum and glass.
5. Concealed guides: To stabilize bottom of sliding panel.
6. Anti-derailing means: A continuous aluminum extrusion full length of travel slide panel.
7. Mohair weather-strip: On all strike rails as well as on adjoining vertical rails.
8. Jambs: Aluminum, 1-3/4 inch by 4 inch.
9. Glass: Thickness and glazing as per unit type.
10. Hardware:
a. Manual Locks: Single slide units equipped with Adams Rite® maximum security MS1850 lock, 1-5/32 inch cylinder, 6410 standard thumbturn and keeper.
B. Operator Components/Features for Automatic Units: 1/2 inch threadless shaft constructed of induction hardened steel.
1. Linear travel block utilizing six aircraft quality ball bearings with integral clutch and nut lubrication.
2. 1/8 HP DC permanent magnet motor, 1800 RPM
3. Electronic control module.
4. Fully and independently adjustable open seed and close check
5. Adjustable time delay from 1 to 20 seconds
6. Adjustable reversing circuit enabling operator to reopen window unit if closing path is obstructed.
7. Circuit breaker (.5 Amp) for current overload protection.

2.3 GLASS AND GLAZING
A. General: Glass and glazing provided by manufacturer in thickness and type recommended for particular unit type.
B. Glass Materials (thickness as per unit type):
1. Laminated Glass: ASTM E774, ASTM 1036.90 Dual-Seal.

2.4 FABRICATION
A. Panel Construction: Mortise and tenon type joints, neatly and mechanically secured. Sash consists of snap-in glass stops, snap-in glazing beads and vinyl gaskets.
B. Frame Construction: Butt joints, neatly and mechanically secured by means of screws and formed aluminum corner brackets.
C. Operator for Automatic Units: Electromechanical, modular type construction.

2.5 FINISHES
A. Standard Stock Finishes (for all exposed aluminum surfaces): Verify color with Finish Schedule
1. 313-R1 Dark Bronze: Architectural Class II Anodic Coating with Integral Color, AA- MI2C22A32

PART III - EXECUTION

3.1 MANUFACTURER'S INSTRUCTIONS
A. Compliance: Comply with factory product data, technical bulletins, and installation and carton instructions.

3.2 INSTALLATION
A. General: Install window units plumb, level, and true to line, without warp or rack of frames or sash with manufacturer's prescribed tolerances. Provide support and anchor in place.
1. Dissimilar Materials: Comply with AAMA 101, Appendix Dissimilar Materials by separating aluminum materials and corrodible surfaces from sources of corrosion or electrolytic action contact points.
2. Weather-tight Construction: Install sill and other members in a bed of sealant or with joint filler or gaskets. Coordinate installation with wall flashings and other components of construction.
3. Electrical (for automatic units): Installer to adjust operator and controls for optimum condition and safety.

3.3 CLEANING, ADJUSTMENT, AND PROTECTION
A. Cleaning: After installation, installer will clean product surfaces and lubricate operating equipment for optimum condition and safety.
B. Adjustment (for automatic units): Installer to adjust operator and controls for optimum condition and safety.

END OF SECTION C08580

SECTION - C08710: FINISH DOOR HARDWARE

PART I - GENERAL

1.1 SUMMARY
A. All door hardware covered in this section is to be provided by the National Accounts Vendor and installed by the General Contractor, unless noted otherwise on the drawings.
1. Provide door gaskets, including weather stripping and seals and thresholds.
2. Provide gate hardware.

1.2 RELATED SECTIONS
A. Standard Steel Doors and Frames: SECTION C08110
B. Plastic Laminate Faced Doors: SECTION C08210
C. Aluminum-Framed Entrances & Storefronts: SECTION C08411

1.3 REFERENCES
A. ANSI/BHMA Certified Product Standards - A156 Series
B. Hardware items shall comply with ANSI specifications and the Americans with Disabilities Act.

1.4 QUALITY ASSURANCE
A. Hardware Supplier: Company specializing in supplying door hardware with three years documented experience approved by manufacturer.

1.5 SUBMITTALS
A. General: Submit per SUBMITTALS Section.
B. Operation and Maintenance Data: Include data on operating hardware, lubrication requirements, and inspection procedures related to preventative maintenance. Data shall be submitted as part of contract closeout.

1.6 DELIVERY, STORAGE AND HANDLING
A. Package hardware items individually with necessary fasteners, instructions, and installation templates, when necessary; label and identify each package with door opeing code to match hardware schedule.

1.7 COORDINATION OF WORK
A. Coordinate Work with other directly affected sections involving manufacture or fabrication of internal reinforcement for door hardware and recessed items.
B. Provide templates or actual hardware as required to ensure proper preparation of doors and frames.
C. Sequence installation to accommodate required utility connections.
D. Coordinate Owner's keying requirements during course of Work.

1.8 WARRANTY
A. Furnish manufacturer warranty for lockstes and door closers.

1.9 MAINTENANCE MATERIALS
A. Furnish special wrenches and tools applicable for each different and for each special hardware component.
B. Furnish maintenance tools and accessories supplied by hardware component manufacturer.

PART II - PRODUCTS

2.1 MANUFACTURERS
A. HOLLOW METAL SUPPLIER CONTACT INFORMATION:
Locknet
100 Courchelle Drive
Nickolasville, KY 40356
ATTN: Jeff Kirkner (856) 887-9119 ext. 131

2.2 COMPONENTS
A. General Hardware Requirements: Where not specifically indicated, comply with applicable ANSI A156 standard for type of hardware required. Furnish each type of hardware with accessories as required for applications indicated and for complete, finished, operational doors.
1. Templates: Furnish templates or physical hardware items to door and frame manufacturers sufficiently in advance to avoid dealy in Work.
2. Reinforcing Units: Furnished by door and frame manufacturers; coordinated by hardware supplier or hardware manufacturer.
3. Fasteners: Furnish as recommended by hardware manufacturer and as required to secure hardware. Finish to match hardware item being fastended.
B. Hinges: ANSI A156.1, full mortise type, template type, ASNI A156.7, complying with followiong general requirements unless otherwise scheduled.
1. Widths: Sufficient to clear trim projection when door swings 180 degrees.
2. Number: Furnish minimum three hinges to 90-inches height.
a. Interior Flat Panel Wood Doors: Furnish minimum three hinges.
3. Size and Weight: 4-1/2 inch standard weight typical for 1-3/4 inch doors.
a. Doors over 40-inch wide, extra heavy weight ball or oilite bearing hinges.
b. Doors over 48-inch wide, 5-inch extra heavy ball or oilite bearing hinges.
4. Pins: Furnish nonferrous hinges with non-removable pins (NRP) at exterior and loced out swinging doors, non-rishing pines at interior doors.
5. Tips: Flush
C. Locks and Latchsets: Furnish locksets compatible with specified cylinders. Typical 2-3/4 inch backset. Furnish standard strickes with extended lips to protect trim from being marred by latch bolt verify type of cutouts provided in metal frames.
1. Board (Cylindrical) Locksets: ANSI A156.2, Series 4000, Grade 1 unless otherwise indicated.
2. Stainless Steel latchbolt for added strength and wear resistance. Direct 1/2-inch throw is standard.
3. Wear-resistant plates in the chassis to help extned the life of the lockbody and provide smoother lock operation.
4. Lifetime warranted heavy-duty lever return springs prevent lever sag and provide positive return to lever to horizontal position.

D. Cylinders:
1. All cylinders to be as specified in Hardware Schedule.
2. Keying: Keyed as directed by Owner.
3. All locking products to be supplied with black construction cores for use during construction.
4. Keys: Nickel Silver
5. Supply quantity of keys as directed by Owner.
E. Closers: ANSI A156.4 modern type with cover, surface mounted closers; full rack and pinion type with steel spring and non-freezing hydraulic fluid.
1. Adjustability: Furnish controls for regulating closing, latching, speeds, and back checking.
2. Arms: Type to suit individual condition; parallel-arm closers at reverse bevel doors where doors swing full 180 degrees.
3. Location: Mount closers on inside of exterior doors, room side of interior doors typical; mount on pull side of other doors.
4. Operating Pressure: Maximum operation pressure as follows:
a. Interior Doors: Maximum 5 pounds
b. Exterior Doors: Maximum 8 pounds
F. Push/Pull, Manual Bolts, Protection Plates, Gaskets, Thresholds and Trim: Furnish as indicated in Schedule, with accessories as required for complete operational door installations.
1. Push/Pulls: ANSI A156.6; push plates minimum 0.050-inch thick. Furnish straight type pulls with bolts to secure from opposite door face; furnish with minium 0.050-inch pull plates unless otherwise indicated.
2. Manual Constant Latching Bolts: ANSI A156.16 Grade 1 top and bottom fush bolts, with dust-proof floor strike, unless otherwise noted.
3. Kick Plates: ANSI A156.6 metal; height indicated in Schedule by 1-inch less than door width; minimum 0.050-inch thick.
4. Weatherstripping: Furnish continuous fire rated gaskets at top and sides of exterior doors.
5. Thresholds: Maximum 1/2-inch height
6. Wall Stops: ANSI A156.1, Grade 1, 2-1/2 inch wall stop, convex pad wall stop with no visible screws.
7. Floor Stops: ANSI A156.1, Grade 1, standard floor type with no visible screws; furnish with accessories as required for applications indicated.

2.3 ACCESSORIES
A. Lock Trim: Furnish levers with rose, escutcheon plate as selected from manufacturer's full range of levers and roses.
B. Through Bolts: Do not permit through bolts and grommet nuts on door faces in occupied areas unless no alternative is possible.

2.4 FINISHES
A. Finishes: ANSI A156.18; furnish following finishes except where otherwise indicated in the Schedule.

2.5 HARDWARE FOR HIGH VELOCITY/HURRICANE ZONES
A. All HVHZ hardware sets to meet NOAA data requirements. Refer to Florida approvals and Notice of Acceptance for approved hardware.

PART III - EXECUTION

3.1 EXAMINATION
A. Verify doors and frames are ready to receive door hardware and dimensions are as indicated on shop drawings.

3.2 INSTALLATION
A. Coordinate mounting heights with door and frame manufacturers. Use templates provided by hardware item manufacturer.
B. Mounting Heights from Finished Floor to Center Line of Hardware Item: Comply with manufacturer recommendations and applicable codes whre not otherwise indicated.
1. ANSI/NFPA 80 and Door Hardware Institute
2. Conform to ANSI A117.1 and ADA for positioning requirements for the handicapped.
C. Do not permit adjacent work to damage hardware or hardware finish.
D. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant.

3.3 ADJUSTING
A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.4 CLEANING AND PROTECTION
A. Protect all hardware stored on site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase.
B. Clean adjacent surfaces soiled by door hardware installation.
C. Clean operating items as necessary to restore proper finish and appearance. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Owner occupancy.

END OF SECTION C08710
SECTION - C08800: GLAZING

PART 1 - GENERAL

1.1 SUMMARY
A. Section includes glazing for the following products and applications, including those specified in other Sections where glazing requirements are specified by reference to this Section:
1. Windows.
2. Doors.
3. Storefront framing.
4. Glazed entrances.

1.2 SUBMITTALS
A. Submit under the provisions of SECTION C01300.

1.3 QUALITY ASSURANCE
A. Glazing Publications: Comply with published recommendations of glass product manufacturers and organizations below, unless more stringent requirements are indicated. Refer to these publications for glazing terms not otherwise defined in this Section or in referenced standards.
1. GANA Publications: GANA's "Laminated Glazing Reference Manual" and GANA's "Glazing Manual."
2. IGMA Publication for Insulating Glass: SIGMA TM-3000, "North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial and Residential Use."
B. Safety Glazing Labeling: Where safety glazing labeling is indicated, permanently mark glazing with certification label of the SGCC or the manufacturer. Label shall indicate manufacturer's name, type of glass, thickness, and safety glazing standard with which glass complies.
C. Insulating-Glass Certification Program: Permanently marked either on spacers or on at least one component lite of units with appropriate certification label of IGCC.

PART 2 - PRODUCTS

2.1 GLASS PRODUCTS, GENERAL
A. Thickness: Where glass thickness is indicated, it is a minimum. Provide glass lites in thicknesses as needed to comply with requirements indicated.
B. Strength: Where float glass is indicated, provide annealed float glass, Kind HS heat-treated float glass, or Kind FT heat-treated float glass. Where heat-strengthened glass is indicated, provide Kind HS heat-treated float glass or Kind FT heat-treated float glass. Where fully tempered glass is indicated, provide Kind FT heat-treated float glass.
C. Windborne-Debris-Impact Resistance: Provide exterior glazing that passes basic-protection testing requirements in ASTM E 1996 for Wind Zone ____ when tested according to ASTM E 1886. Test specimens shall be no smaller in width and length than glazing indicated for use on the Project and shall be installed in same manner as glazing indicated for use on the Project.
1. Large-Missile Test: For glazing located within 30 feet (9.1 m) of grade.
2. Small-Missile Test: For glazing located more than 30 feet (9.1 m) above grade.
D. Thermal and Optical Performance Properties: Provide glass with performance properties specified, as indicated in manufacturer's published test data, based on procedures indicated below:
1. U-Factors: Center-of-glazing values, according to NFRC 100 and based on LBL's WINDOW 5.2 computer program, expressed as Btu/sq. ft. x h x deg F (W/sq. m x K).
2. Solar Heat-Gain Coefficient and Visible Transmittance: Center-of-glazing values, according to NFRC 200 and based on LBL's WINDOW 5.2 computer program.
3. Visible Reflectance: Center-of-glazing values, according to NFRC 300.

2.2 GLASS PRODUCTS
A. Float Glass: ASTM C 1036, Type I, Quality-Q3, Class I (clear) unless otherwise indicated.
B. Heat-Treated Float Glass: ASTM C 1048; Type I; Quality-Q3; Class I (clear) unless otherwise indicated; of kind and condition indicated.
C. Acid Etched Glass: ASTM C 1036, Type II, Class 1 (clear), Form 3; Quality-Q6, Finish F1 (etched one side).

2.3 LAMINATED GLASS
A. Laminated Glass: ASTM C 1172, and complying with testing requirements in 16 CFR 1201 for Category II materials, and with other requirements specified. Use materials that have a proven record of no tendency to bubble, discolor, or lose physical and mechanical properties after fabrication and installation.
1. Construction: Laminate glass with polyvinyl butyral interlayer to comply with interlayer manufacturer's written recommendations.
2. Interlayer Thickness: Provide thickness not less than that indicated and as needed to comply with requirements.
3. Interlayer Color: Clear unless otherwise indicated.
B. Windborne-Debris-Impact-Resistant Laminated Glass: ASTM C 1172, and complying with testing requirements in 16 CFR 1201 for Category II materials, with "Windborne-Debris-Impact Resistance" Paragraph in "Glass Products, General" Article, and with other requirements specified. Use materials that have a proven record of no tendency to bubble, discolor, or lose physical and mechanical properties after fabrication and installation.
1. Construction: Laminate glass with[one of] the following to comply with interlayer manufacturer's written recommendations:
a. Polyvinyl butyral interlayer.
2. Interlayer Thickness: Provide thickness not less than that indicated and as needed to comply with requirements.
3. Interlayer Color: Clear unless otherwise indicated.

2.4 INSULATING GLASS
A. Insulating-Glass Units: Factory-assembled units consisting of sealed lites of glass separated by a dehydrated interspace, qualified according to ASTM E 2190, and complying with other requirements specified.
1. Sealing System: Dual seal.
2. Spacer: Manufacturer's standard spacer material and construction.

2.5 GLAZING GASKETS
A. Dense Compression Gaskets: Molded or extruded gaskets of profile and hardness required to maintain watertight seal, made from one of the following:
1. Neoprene complying with ASTM C 864.
2. EPDM complying with ASTM C 864.
3. Silicone complying with ASTM C 1115.
4 Thermoplastic polyolefin rubber complying with ASTM C 1115.

2.6 GLAZING SEALANTS
A. General:
1. Compatibility: Provide glazing sealants that are compatible with one another and with other materials they will contact, including glass products, seals of insulating-glass units, and glazing channel substrates, under conditions of service and application, as demonstrated by sealant manufacturer based on testing and field experience.
2. Suitability: Comply with sealant and glass manufacturers' written instructions for selecting glazing sealants suitable for applications indicated and for conditions existing at time of installation.
3. Colors of Exposed Glazing Sealants: As indicated by manufacturer's designations.
B. Glazing Sealant: Neutral-curing silicone glazing sealant complying with ASTM C 920, Type S, Grade NS, Class 100/50, Use NT.

2.7 GLAZING TAPES
A. Back-Bedding Mastic Glazing Tapes: Preformed, butyl-based, 100 percent solids elastomeric tape; nonstaining and nonmigrating in contact with nonporous surfaces; with or without spacer rod as recommended in writing by tape and glass manufacturers for application indicated; and complying with ASTM C 1281 and AAMA 800 for products indicated below:
1. AAMA 804.3 tape, where indicated.
B. Expanded Cellular Glazing Tapes: Closed-cell, PVC foam tapes; factory coated with adhesive on both surfaces; and complying with AAMA 800 for the following types:
1. AAMA 810.1, Type 1, for glazing applications in which tape acts as the primary sealant.
2 AAMA 810.1, Type 2, for glazing applications in which tape is used in combination with a full bead of liquid sealant.

2.8 MISCELLANEOUS GLAZING MATERIALS
A. Cleaners, Primers, and Sealers: Types recommended by sealant or gasket manufacturer.
B. Setting Blocks: Elastomeric material with a Shore, Type A durometer hardness of 85, plus or minus 5.
C. Spacers: Elastomeric blocks or continuous extrusions of hardness required by glass manufacturer to maintain glass lites in place for installation indicated.
D. Edge Blocks: Elastomeric material of hardness needed to limit glass lateral movement (side walking).

2.9 MONOLITHIC-GLASS TYPES
A. Glass Type G-1: Clear fully tempered float glass. Thickness: 1/4 inch (6.0 mm).
1. Provide safety glazing labeling.
B. Glass Type G-11: Clear fully tempered float glass. Thickness: 1/2 inch (13.0 mm).
2. Provide safety glazing labeling.

2.10 LAMINATED-GLASS TYPES
A. Glass Type G-3: Clear laminated glass with two plies of fully tempered float glass.
1. Thickness of Each Glass Ply: 1/8 inch (6.0 mm).
2. Interlayer Thickness: 0.030 inch (0.76 mm).
3. Provide safety glazing labeling.
B. Glass Type G-4: Clear laminated glass with two plies of fully tempered float glass.
1. Thickness of Each Glass Ply: 1/8 inch (6.0 mm).
2 Interlayer Thickness: 0.030 inch (0.76 mm).
3. Acid Etching: Opaque on third surface
4 Provide safety glazing labeling.

2.11 INSULATING-GLASS TYPES
A. Glass Type G21: Low-e-coated, clear insulating glass.
1. Overall Unit Thickness: 1 inch (25 mm).
2 Thickness of Each Glass Lite: 1/4 inch (12.0 mm).
3. Outdoor Lite: Fully tempered float glass.
4 Interspace Content: Air.
5. Indoor Lite: Fully tempered float glass.
6. Low-E Coating: Pyrolytic on second surface.
7. Visible Light Transmittance: 54 percent minimum.
8. Winter Nighttime U-Factor: 0.29 maximum.
9. Summer Daytime U-Factor: 0.27 maximum.
10. Solar Heat Gain Coefficient: 0.28 maximum.
11. Provide safety glazing labeling.
B. Glass Type G31: Low-e-coated, clear insulating glass.
1. Overall Unit Thickness: 1 inch (25 mm).
2 Thickness of Each Glass Lite: 1/4 inch (12.0 mm).
3. Outdoor Lite: Fully tempered float glass.
4 Interspace Content: Air.
5. Indoor Lite: Fully tempered float glass.
6. Low-E coating: Pyrolytic on second surface
7. Winter Nighttime U-Factor: 0.29 maximum.
8. Summer Daytime U-Factor: 0.27 maximum.
9. Solar Heat Gain Coefficient: 0.23 maximum.
10. Provide safety glazing labeling.
11. Spandrel Film: Interior Side (Surface 4), Warm Gray.
C. Glass Type G41: Low-e-coated, clear insulating glass.
1. Overall Unit Thickness: 1 inch (25 mm)
2. Thickness of Each Glass Lite: 1/4 inch (12.0 mm)
3. Outdoor Lite: Fully tempered float glass.
4. Interspace Content: Air.
5. Indoor Lite: Fully tempered float glass.
6. Low-E coating: Pyrolytic on second surface
7. Winter Nighttime U-Factor: 0.29 maximum.
8. Summer Daytime U-Factor: 0.27 maximum.
9. Solar Heat Gain Coefficient: 0.23 maximum.
10. Provide safety glazing labeling.
11. One-Way Films: Interior Side (Surface 4), Milky Milk on top of Night Vision.

PART 3 - EXECUTION

3.1 GLAZING, GENERAL
A. Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are indicated, including those in referenced glazing publications.
B. Adjust glazing channel dimensions as required by Project conditions during installation to provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances.
C. Protect glass edges from damage during handling and installation. Remove damaged glass from Project site and legally dispose of off Project site. Damaged glass is glass with edge damage or other imperfections that, when installed, could weaken glass and impair performance and appearance.
D. Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction testing.
E. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise required by glass manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.
F. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.
G. Provide spacers for glass lites where length plus width is larger than 50 inches (1270 mm).
H. Provide edge blocking where indicated or needed to prevent glass lites from moving sideways in glazing channel, as recommended in writing by glass manufacturer and according to requirements in referenced glazing publications.

3.2 TAPE GLAZING
A. Position tapes on fixed stops so that, when compressed by glass, their exposed edges are flush with or protrude slightly above sightline of stops.
B. Install tapes continuously, but not necessarily in one continuous length. Do not stretch tapes to make them fit opening.
C. Cover vertical framing joints by applying tapes to heads and sills first and then to jambs. Cover horizontal framing joints by applying tapes to jambs and then to heads and sills.
D. Place joints in tapes at corners of opening with adjoining lengths butted together, not lapped. Seal joints in tapes with compatible sealant approved by tape manufacturer.
E. Center glass lites in openings on setting blocks and press firmly against tape by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings.

3.3 GASKET GLAZING (DRY)
A. Cut compression gaskets to lengths recommended by gasket manufacturer to fit openings exactly, with allowance for stretch during installation.
B. Insert soft compression gasket between glass and frame or fixed stop so it is securely in place with joints miter cut and bonded together at corners.
C. Installation with Drive-in Wedge Gaskets: Center glass lites in openings on setting blocks and press firmly against soft compression gasket by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.
D. Edge Blocks: Install gaskets so they protrude past face of glazing stops.

3.4 SEALANT GLAZING (WET)
A. Install continuous spacers, or spacers combined with cylindrical sealant backing, between glass lites and glazing stops to maintain glass face clearances and to prevent sealant from extruding into glass channel and blocking weep systems until sealants cure. Secure spacers or spacers and backings in place and in position to control depth of installed sealant relative to edge clearance for optimum sealant performance.
B. Force sealants into glazing channels to eliminate voids and to ensure complete wetting or bond of sealant to glass and channel surfaces.
C. Tool exposed surfaces of sealants to provide a substantial wash away from glass.

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SHEET
SPECIFICATIONS

SHEET NUMBER
A-908

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SECTION 088000 - GLAZING

PART 1 - GENERAL

1.1 SUMMARY
A. This Section includes the following:
1. Fixed glass.
2. Glazing sealants.

1.2 RELATED SECTIONS
A. Aluminum-Framed Storefronts: SECTION 084113

1.3 QUALITY ASSURANCE
A. Fire-Rated Glazing Assemblies: For fire-rated glazing assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E 119 by an independent testing agency.

PART 2 - PRODUCTS

2.1 GLASS, GENERAL
A. Glass Standard: Comply with GANA's "Glazing Manual" unless more stringent requirements are indicated.
B. Safety Glass: Category II unless Category I is indicated or required by code.
C. Glass Thickness: Select minimum glass thickness for each glass type indicated, but not less than thickness required to comply with performance requirements.
D. Glass Edge Work: Flat ground and polished.
E. Glass Color: Clear.

2.2 GLASS TYPES
A. Fixed Glass: Clear, Category II, Type I, Class 1, Quality-q3, 6 mm thick.

2.3 GLAZING SEALANTS
A. Glazing Sealants, General: Provide sealants that are recommended by manufacturer for use in joint sizes and conditions indicated.
B. Color: Clear.

PART 3 - EXECUTION

3.1 GLAZING, GENERAL
A. Glazing Standard: Comply with GANA's "Glazing Manual" unless more stringent requirements are indicated.
B. Glazing Publications: Comply with GPX's publications.

3.2 GLAZING SEALANTS
A. Glazing Sealants, General: Provide sealants that are recommended by manufacturer for use in joint sizes and conditions indicated.
B. Color: Clear.

END OF SECTION 088000
DIVISION 9 - FINISHES

SECTION - C09111: NON-LOAD-BEARING STEEL FRAMING

PART I - GENERAL

1.1 SUMMARY
A. This Section includes non-load-bearing steel framing members for the following applications:
1. Interior framing systems (e.g., supports for partition walls, framed soffits, furring, etc.).
2. Interior suspension systems (e.g., supports for ceilings, suspended soffits, etc.).
B. This section will be applicable depending on the construction type shown on the drawings.

1.2 QUALITY ASSURANCE
A. Fire-Test-Response Characteristics: Provide materials and construction identical to those tested in assembly indicated according to ASTM E 119 by a testing and inspection agency.

PART II - PRODUCTS

2.1 NON-LOAD-BEARING STEEL FRAMING, GENERAL
A. Framing Members, General: Comply with ASTM C 754 for conditions indicated.
1. Steel Sheet Components: Comply with ASTM C 645 requirements for metal, unless otherwise indicated.
2. Protective Coating: ASTM A 653/A 653M, G90 (Z275).

2.2 SUSPENSION SYSTEM COMPONENTS
A. Tie Wire: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.0625-inch- (1.59-mm-) diameter wire, or double strand of 0.0475-inch- (1.21-mm-) diameter wire.
B. Wire Hangers: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.162-inch (4.12-mm) diameter.
C. Grid Suspension System for Ceilings: ASTM C 645, direct-hung system composed of main beams and cross-furring members that interlock.
1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
a. Armstrong World Industries, Inc.; Drywall Grid Systems.
b. Chicago Metallic Corporation; Drywall Furring System.
c. USG Corporation; Drywall Suspension System.

2.3 STEEL FRAMING FOR FRAMED ASSEMBLIES
A. Manufacturers:
1. Dietrick Metal Framing, Chester, OH, 45069
2. Substitutions shall be accepted per SECTION C01030
B. Steel Studs and Runners: ASTM C 645.
1. Minimum Base-Metal Thickness: 0.0312 inch (0.79 mm) As well as, as indicated on drawings.
2. Depth: As indicated on Drawings.
C. Slip-Type Head Joints: Where indicated, provide the following:
1. Deflection Track: Steel sheet top runner manufactured to prevent cracking of finishes applied to interior partition framing resulting from deflection of structure above; in thickness not less than indicated for studs and in width to accommodate depth of studs.

PART III - EXECUTION

3.1 INSTALLATION, GENERAL
A. Installation Standard: ASTM C 754, except comply with framing sizes and spacing indicated.
1. Gypsum Board Assemblies: Also comply with requirements in ASTM C 840 that apply to framing installation.

3.2 INSTALLING SUSPENSION SYSTEMS
A. Isolate suspension systems from building structure where they abut or are penetrated by building structure to prevent transfer of loading imposed by structural movement.
B. Suspend hangers from building structure as follows:
1. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structural or suspension system.
a. Splay hangers only where required to miss obstructions and offset resulting horizontal forces by bracing, counterspraying, or other equally effective means.
2. Where width of ducts and other construction within ceiling plenum produces hanger spacings that interfere with locations of hangers required to support standard suspension system members, install supplemental suspension members and hangers in the form of trapezes or equivalent devices.
3. Do not attach hangers to steel roof deck.
4. Do not connect or suspend steel framing from ducts, pipes, or conduit.
5. Do not attach hangers to exhaust hoods.
C. Seismic Bracing: Sway-brace suspension systems with hangers used for support.
D. Grid Suspension Systems: Attach perimeter wall track or angle where grid suspension systems meet vertical surfaces. Mechanically join main beam and cross-furring members to each other and butt-cut to fit into wall track.
E. Installation Tolerances: Install suspension systems that are level to within 1/8 inch in 12 feet (3 mm in 3.6 m) measured lengthwise on each member that will receive finishes and transversely between parallel members that will receive finishes.

3.3 INSTALLING FRAMED ASSEMBLIES
A. Where studs are installed directly against exterior masonry walls or dissimilar metals at exterior walls, install isolation strip between studs and exterior wall.
B. Install studs so flanges within framing system point in same direction.
1. Space studs as follows:
a. As indicated on drawings.
C. Install tracks (runners) at floors and overhead supports. Extend framing full height to structural supports or substrates above suspended ceilings, except where partitions are indicated to terminate at suspended ceilings. Continue framing around ducts penetrating partitions above ceiling.
1. Slip-Type Head Joints: Where framing extends to overhead structural supports, install to produce joints at tops of framing systems that prevent axial loading of finished assemblies.
2. Door Openings: Screw vertical studs at jambs to jamb anchor clips on door frames; install runner track section (for cripple studs) at head and secure to jamb studs.
a. Install two studs at each jamb, unless otherwise indicated.
b. Install cripple studs at head adjacent to each jamb stud, with a minimum 1/2-inch (12.7-mm) clearance from jamb stud to allow for installation of control joint in finished assembly.
c. Extend jamb studs through suspended ceilings and attach to underside of overhead structure.
3. Other Framed Openings: Frame openings other than door openings the same as required for door openings, unless otherwise indicated. Install framing below sills of openings to match framing required above door heads.
4. Fire-Resistance-Rated Partitions: Install framing to comply with fire-resistance-rated assembly indicated and support closures and to make partitions continuous from floor to underside of solid structure.
a. Firestop Track: Where indicated, install to maintain continuity of fire-resistance-rated assembly indicated.
D. Direct Furring:
1. Screw to wood framing.
E. Installation Tolerance: Install each framing member so fastening surfaces vary not more than 1/8 inch (3 mm) from the plane formed by faces of adjacent framing.

END OF SECTION C09111

SECTION - C09250: GYPSUM BOARD

PART I - GENERAL

1.1 SUMMARY
A. This Section includes the following:
1. Interior gypsum board.
2. Tile backing panels.

1.2 RELATED SECTIONS
A. Building Insulation: SECTION C07210

1.3 QUALITY ASSURANCE
A. Fire-Resistance-Rated Assemblies: For fire-resistance-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E 119 by an independent testing agency.

PART II - PRODUCTS

2.1 INTERIOR GYPSUM BOARD
A. General: Complying with ASTM C 36/C 36M or ASTM C 1396/C 1396M, as applicable to type of gypsum board indicated and whichever is more stringent.
1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
a. National Gypsum Company.
b. USG Corporation.
B. Standard Interior:
1. Thickness: 1/2 inch (12 mm), unless otherwise noted.
2. Long Edges: Tapered.
C. Type X:
1. Thickness: 5/8 inch (15.9 mm), unless otherwise noted.
2. Long Edges: Tapered.
D. Flexible Type: Manufactured to bend to fit radii and to be more flexible than standard regular-type gypsum board of same thickness.
1. Thickness: 1/2 inch (12 mm), unless otherwise noted.
2. Long Edges: Tapered.
E. Ceiling Type: Manufactured to have more sag resistance than regular-type gypsum board.
1. Thickness: 5/8 inch (15.9 mm), unless otherwise noted.
2. Long Edges: Tapered.

2.2 TILE BACKING PANELS
A. Water-Resistant Gypsum Backing Board: ASTM C 630/C 630M or ASTM C 1396/C 1396M.
1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
a. National Gypsum Company.
b. USG Corporation.
2. Core: 5/8 inch (15.9 mm), Type X.
B. Cementitious Backer Units: ANSI A118.9.
1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
a. USG Corporation; DUROCK Cement Board.
2. Thickness: 1/2 inch (15.9 mm).

2.3 TRIM ACCESSORIES
A. Interior Trim: ASTM C 1047.
1. Material: Galvanized.
2. Shapes:
a. Cornerbead.
b. LC-Bead: J-shaped; exposed long flange receives joint compound.
c. Curved-Edge Cornerbead: With notched or flexible flanges.

2.4 JOINT TREATMENT MATERIALS
A. General: Comply with ASTM C 475/C 475M.
B. Joint Tape:
1. Interior Gypsum Wallboard: Paper.
2. Tile Backing Panels: As recommended by panel manufacturer.
C. Joint Compound for Interior Gypsum Wallboard: For each coat use formulation that is compatible with other compounds applied on previous or for successive coats.
1. Prefilling: At open joints, rounded or beveled panel edges, and damaged surface areas, use setting-type taping compound.
2. Embedding and First Coat: For embedding tape and first coat on joints, fasteners, and trim flanges, use setting-type taping compound.
3. Fill Coat: For second coat, use drying-type, all-purpose compound.
4. Finish Coat: For third coat, use drying-type, all-purpose compound.
D. Joint Compound for Tile Backing Panels:
1. Water-Resistant Gypsum Backing Board: Use setting-type taping compound and setting-type, sandable topping compound.
2. Cementitious Backer Units: As recommended by backer unit manufacturer.

2.5 AUXILIARY MATERIALS
A. General: Provide auxiliary materials that comply with referenced installation standards and manufacturer's written recommendations.
B. Steel Drill Screws: ASTM C 1002, unless otherwise indicated.
1. Use screws complying with ASTM C 954 for fastening panels to steel members from 0.033 to 0.112 inch (0.84 to 2.84 mm) thick.
2. For fastening cementitious backer units, use screws of type and size recommended by panel manufacturer.
C. Glue: Liquid Nails drywall adhesive or equal, installed per manufacturer instructions.

PART III - EXECUTION

3.1 APPLYING AND FINISHING PANELS, GENERAL
A. Comply with ASTM C 840.
B. Examine panels before installation. Reject panels that are wet, moisture damaged, and mold damaged.
C. Isolate perimeter of gypsum board applied to non-load-bearing partitions at structural abutments, except floors. Provide 1/4- to 1/2-inch- (6.4- to 12.7-mm-) wide spaces at these locations, and trim edges with edge trim where edges of panels are exposed. Seal joints between edges and abutting structural surfaces with acoustical sealant.
D. Wood Framing: Install gypsum panels over wood framing, with floating internal corner construction. Do not attach gypsum panels across the flat grain of wide-dimension lumber, including floor joists and headers. Float gypsum panels over these members, or provide control joints to counteract wood shrinkage.

3.2 APPLYING INTERIOR GYPSUM BOARD
A. Install interior gypsum board in the following locations:
1. Type X: As indicated on Drawings.
2. Flexible Type: Apply at curved assemblies.
3. Ceiling Type: Ceiling surfaces.
4. Moisture- and Mold-Resistant Type: As indicated on Drawings.

3.3 APPLYING TILE BACKING PANELS
A. Water-Resistant Gypsum Backing Board: Install at sinks, toilets, mop sinks and where indicated. Install with 1/4-inch (6.4-mm) gap where panels abut other construction or penetrations.
B. Cementitious Backer Units: As indicated on drawings.
C. Where tile backing panels abut other types of panels in same plane, shim surfaces to produce a uniform plane across panel surfaces.

3.4 INSTALLING TRIM ACCESSORIES
A. General: For trim with back flanges intended for fasteners, attach to framing with same fasteners used for panels. Otherwise, attach trim according to manufacturer's written instructions.
B. Interior Trim: Install in the following locations:
1. Cornerbead: Use at outside corners, unless otherwise indicated.
2. LC-Bead: Use at exposed panel edges.
3. Curved-Edge Cornerbead: Use at curved openings.

3.5 FINISHING GYPSUM BOARD
A. General: Treat gypsum board joints, interior angles, edge trim, control joints, penetrations, fastener heads, surface defects, and elsewhere as required to prepare gypsum board surfaces for decoration. Promptly remove residual joint compound from adjacent surfaces.
B. Prefill open joints, rounded or beveled edges, and damaged surface areas.
C. Apply joint tape over gypsum board joints, except those with trim having flanges not intended for tape.
D. Gypsum Board Finish Levels: Finish panels to levels indicated below and according to ASTM C 840:
1. Level 1: Ceiling plenum areas, concealed areas, and where indicated.
2. Level 2: N/A
3. Level 3: Panels that are substrate for tile and FRP, & all other panel locations not indicated in this section.
4. Level 4: At panel surfaces that will be exposed to view in public areas.
E. Cementitious Backer Units: Finish according to manufacturer's written instructions.

3.6 PROTECTION
A. Protect installed products from damage from weather, condensation, direct sunlight, construction, and other causes during remainder of the construction period.
B. Remove and replace panels that are wet, moisture damaged, and mold damaged.
1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

END OF SECTION C09250

SECTION - C09310: CERAMIC & GLASS TILE

PART I - GENERAL

1.1 SECTION INCLUDES
A. Ceramic tile for walls.
B. Glass Tile for walls.
C. Subway Tile for walls.
D. Red Penny Tile for walls.
E. Porcelain Tile for floors.
F. Base Tile for walls.
G. Setting adhesives and grout.

1.2 RELATED SECTIONS
A. Cast-In-Place Concrete: SECTION C03300
B. Gypsum Board Systems: SECTION C09250

1.3 REFERENCE PUBLICATIONS
A. Tile Council of America (TCA): Most Current "Handbook for Ceramic Tile Installation"
B. American National Standards Institute (ANSI)

PART II - PRODUCTS

2.1 MANUFACTURER
A. The drawings were prepared and this specification written on the basis of using the products of specific manufacturers.

2.2 MATERIALS
A. Ceramic Tile, Glass Tile, Subway Tile, Porcelain Tile and Base Tile: Refer to Finish Schedule on Drawings for manufacturer, color, size, pattern and grout color. Provide necessary caps, stops, coves, returns, trimmers and other shapes as required for a complete installation.
B. Cementitious Bond Coat (Thin-set):
1. Floors: Mapei, "Ultraflex 2" Polymer-modified thin set mortar. Meets or exceeds ANSI A118.4 and ANSI A118.11.
2. Base and floors: As recommended by TCA for the particular conditions in which the tile is being set. Refer to Interior Finish Schedule, Floor Finish Plan for coordination.
3. For Glass Tile: As recommended by manufacturer.
C. Interior Grout:
1. Latex Portland cement grout conforming to ANSI A118.6; color (pigment additive) - drawings.
2. Floors - Acid resistant grout, color (pigment additive) as shown on drawings.

PART III - EXECUTION

INSPECTION
Examine all surfaces receiving tile for any defects that would impair installation and if any are found, make such corrections. Contractor shall apply leveling coat of dry-set mortar over wall and floor surfaces which vary more than 1/8-inch in 10 feet. Installation constitutes acceptance of the substrate.

3.2 INSTALLATION
A. Standard practice will be expected and accepted; poor or sloppy workmanship will be rejected.
B. Interior: Conform to manufacturer's printed specifications and instructions, and to "thin setting" and "grout joints" instructions and sketches contained in "Handbook for Ceramic Tile Installation" for each condition encountered on the job.

END OF SECTION C09310

SECTION - C09330: QUARRY TILE

PART I - GENERAL

1.1 SECTION INCLUDES
A. Quarry tile floor and base
B. Setting adhesives and grout
C. Waterproofing Membrane

1.2 RELATED SECTIONS
A. Cast-In-Place Concrete: SECTION C03300
B. Gypsum Board Systems: SECTION C09250

1.3 REFERENCE PUBLICATIONS
A. Tile Council of America (TCA): Most Current "Handbook for Ceramic Tile Installation"
B. American National Standards Institute (ANSI)

PART II - PRODUCTS

2.1 MANUFACTURER
A. The drawings were prepared and this specification written on the basis of using the products of specific manufacturers.

2.2 MATERIALS
A. Quarry Tile: See Finish Schedule.
B. Cementitious Bond Coat (Thin-Set): Mapei, "Ultraflex 2" Polymer-modified thin set mortar. Meets or exceeds ANSI A118.4 and ANSI A118.11.
C. Grout: Mapei, "Kerapoxy IEG CQ", epoxy grout; conforming to ANSI A118-3. Sanded, see drawings for color.
D. Waterproofing
1. Mapelastic Aquadefense as manufactured by Mapei. 40 mils thickness.

PART III - EXECUTION

3.1 INSPECTIONS
A. Examine all surfaces receiving quarry tile for any defects that would impair installation and if any are found, make such corrections.
B. Installation constitutes acceptance of the substrate.

3.2 INSTALLATION
A. Conform to tile manufacturers' printed specifications and instructions and to "cement mortar" instructions and sketches contained in "Handbook for Ceramic Tile Installation" for each condition encountered on the job. In general, standard practice will be expected and accepted and poor or sloppy workmanship will be rejected. Surface to receive tile must be free of sealers, curing compounds, coatings, oil, dust and must by dry.
B. Waterproofing Membrane: Conform to manufacturer's printed specifications and instructions.

3.3 CLEAN-UP
A. Upon completion of work of this section remove related debris from premises.

END OF SECTION C09330

SECTION - C09510: ACOUSTICAL PANEL CEILINGS

PART I - GENERAL

1.1 SUMMARY
A. This section includes ceilings consisting of acoustical panels and exposed suspension systems.

1.2 SUBMITTALS
A. Submit Shop Drawings per SUBMITTALS Section; Base on details shown on the Drawings. Submit manufacturer's technical data for each type of acoustical ceiling unit and suspension system required.

1.3 RELATED SECTIONS
A. Gypsum Board: SECTION C09250
B. Division 15 - Mechanical Work
C. Division 16 - Electrical Work

1.4 QUALITY ASSURANCE
A. Single-Source: Provide acoustical panel units and grid components by a single manufacturer.
B. Fire Performance: Identify acoustical ceiling components with appropriate markings of applicable testing and inspection organization.
1. Surface Burning Characteristics: Tested per ASTM E 84 and complying with ASTM E 1264 for Class A Products.
a. Flame Spread: 25 or less
b. Smoke Developed: 50 or Less

1.5 DELIVERY, STORAGE AND HANDLING
A. Deliver units to project site in original, unopened packages and store them in a fully enclosed space where they will be protected against damage from moisture, direct sunlight, surface contamination and other causes.
B. Before installing units, permit them to reach toom temperature and stabilized moisture content.
C. Handle acoustical ceiling units carefully to avoid chipping edges or damaged units in any way.

PART II - PRODUCTS

2.1 MANUFACTURERS
A. Lay-In Ceiling Tiles (Dining/Serving): CERTAINTEED CORPORATION, P.O. Box 860, Valley Forge PA 19482, (800) 233-8990: Refer to drawings
B. Lay-In Ceiling Tiles (Kitchen/Back-of-House): CERTAINTEED CORPORATION, P.O. Box 860, Valley Forge PA 19482, (800) 233-8990: Refer to drawings.
C. Metal Suspension System: CERTAINTEED CORPORATION, P.O. Box 860, Valley Forge PA 19482, (800) 233-8990: Refer to drawings.
1. Attachment Devices: Size for five times design load indicated in ASTM C 635, Table 1, Direct Hung.
2. Wire Hangers and Ties; ASTM A 641, Class 1 zinc coating, soft temper, pre-stretched, with a yield stress load of at least three times design load, but not less than 12 guage.
3. Edge Molding and Trim: Manufacturer's standard moldings for edge and penetrations.

PART III - EXECUTION

3.1 PREPARATION
A. Measure each ceiling area and establish layout of acoustical units to balance border widths at opposite edges of each ceiling. Avoid use of less than half width units at borders, and comply with reflected ceiling plans. Coordinate panel layout with mechanical and electrical fixtures.

3.2 INSTALLATION
A. Install suspension system and acoustical panel assemblies to comply with written publications from the manufacturer.
B. Suspend main beam from overhead construction with hanger wires plumb and free. Space hangers not more than 48-inches on center along the length of the main runner. Follow appropriate guidelines for earthquake zones.
C. Install edge molding and trim at perimeter of acoustical ceiling area and where necessary to conceal edges of acoustical panels.
D. Install acoustical panels with undamaged edges and fitted accurately into suspension system runners and edge moldings. Scribe and cut panels at borders and penetrations to provide a neat, precise fit.

3.3 ADJUSTING AND CLEANING
A. Replace damaged and broken panels.
B. Clean exposed surfaces. Cleaning: Comply with manufacturer's written instructions for cleaning and touchup of minor finish damage. Replace components that cannot be successfully cleaned.

END OF SECTION C09510

Chick-fil-A
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Atlanta, Georgia
30349-2998

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ARCHITECTURE PLANNING INTERIORS
CIVIL ENGINEERING SURVEYING BUILDING MEASUREMENT
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STATE OF MONTANA
11/12/2025

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HELENA, MONTANA 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
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CONSULTANT PROJECT # LAX22-0129-01
DATE 10/20/2025
DRAWN BY M.M.O./ K.G.

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SHEET
SPECIFICATIONS

SHEET NUMBER
A-909

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SECTION - C09655: VINYL WALL BASE

PART I - GENERAL

1.1 SUMMARY
A. This section includes vinyl wall base and adhesive.

PART II - PRODUCTS

2.1 MANUFACTURER
A. Johnsonite Inc., Chagrin Falls, OH 44023; (800) 899-8916

2.2 Wall Base
A. Coved base complying with FS SS-40, Type 2. Refer to the Finish Schedule.

2.3 ADHESIVES
A. Acrylic Cove Base Adhesive specifically formulated for rubber and vinyl wall base.
1 Johnsonite #960
2. Contributes to LEED Certification (E.Q. 4.1: Low-Emitting Materials: Adhesives and Sealants).
B. Contact Bond Adhesive specifically formulated for wall base at porous floor and non-porous locations.
1. Johnsonite #946
2. Contributes to LEED Certification (E.Q. 4.1: Low-Emitting Materials: Adhesives and Sealants).

PART III - EXECUTION

3.1 GENERAL
A. Install vinyl base according to manufacturer's written installation instructions. Apply base to walls, columns, permanent casework and cabinets. Install base in lengths as long as practicable without gaps at seams and with tops of adjacent pieces aligned. Tightly adhere wall base to substrate throughout. Install pre-molded outside corners before installing straight pieces.
B. Apply three (3) bead of adhesive for entire length of base. Stay 1/4-inch away from top edge to prevent adhesive oozing. Apply clear silicone sealant to top edge. NO EXCEPTIONS.

END OF SECTION C09655

SECTION - C09770: REINFORCED WALL COVERINGS

PART I - GENERAL

1.1 SUMMARY
A. Section Includes: Prefinished polyester glass reinforced plastic sheets and adhered to unfinished gypsum wallboard. Standard FRP with textured surface.

1.2 SUBMITTALS
A. Submit Shop Drawings per SUBMITTALS Section. Submit sufficient manufacture's data to indicate compliance with these specifications including:
1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Installation methods.

1.3 RELATED SECTIONS
A. Sealants and Caulks: SECTION C07920
B. Gypsum Board: SECTION C09250
C. Quarry Tile: SECTION C09330

1.4 QUALITY ASSURANCE
A. Fire Performance: Identify panel competes with appropriate markings of applicable testing and inspection organization.
1. Surface Burning Characteristics: Tested per ASTM E 84 and complying for Class C Products.
a. Flame Spread: 76 or less
b. Smoke Developed: 200 or less
B. Sanitary Standards: System components and finishes to comply with:
1. United States Department of Agricultural (USDA) requirements for food preparation facilities, incidental contact.
2. Food and Drug Administration (FDA) 1999 Food Code 6-101.11

1.5 WARRANTY
A. Furnish one year guarantee against defects in material and workmanship.

PART II - PRODUCTS

2.1 MANUFACTURERS
A. Back-of-House
1. Refer to the architectural Finish Schedule.
B. Play Area
1. Refer to the architectural Finish Schedule.

2.2 PANELS
A. Fiberglass reinforced thermosetting polyester resin panel sheets complying with ASTM D5319. Back surface smooth, imperfections which do not affect functional properties are not cause for rejection.
B. Dimensions: 0.090-inches (thick) x 48-inches (wide) x 120-inches (high)
C. Back-of-House: Fiberglass reinforced thermosetting polyester resin panel sheets complying with ASTM D 5319.
1. Marlite - 'Standard FRP P199', Pebbled, Bright White
2. Stabilit America - 'Glasliner FRP 1200', Pebbled, White
3. Carne Composites - 'Glasbord FRP', Pebbled, White

2.3 WALLCOVERING
A. Play Area: Rigid high-impact protective wallcovering.
B. Dimensions: 0.040-inches (thick) x 48-inches (wide) x 96-inches (high)
C. Color and Texture as indicated in the Finish Schedule.

2.4 MOLDINGS AND ACCESSORIES
A. Fiberglass Reinforced Panels: Provide extruded PVC Trim Profile, unless otherwise noted, as required for panels including but not limited to:
1. Inside Corner: length as required, color to match panel
2. Division: length as required, color to match panel
3. Edge: length as required, color to match panel
4. Outside Corner: F 560 Stainless Steel, length as required, finish No. 4 Satin
B. Wallcoverings: Accessory moldings by Koroseal to ensure accurate match of colors, dimension, and physical properties.

2.5 ADHESIVES
A. Fiberglass Reinforced Panels Adhesives shall meet or exceed:
1. Marlite C-551 FRP Adhesive. Contributes to LEED Certification (E.Q. 4.1: Low-Emitting Materials: Adhesives and Sealants).
B. Wallcoverings: Use adhesives provided by Koroseal.

PART III - EXECUTION

3.1 PREPARATION
A. Examine backup services to determine that corners are plumb and straight, surfaces are smooth, uniform, clean, and free from foreign matter, nails countersunk, joints and cracks filled flush and smooth with adjoining surface.
1. Verify that stud spacing does not exceed 24-inches on-center.
B. Repair defects prior to installation. Level wall surfaces to panel manufacturer's requirements. Remove protrusions and fill indentations.

3.2 INSTALLATION
A. Comply with manufacturer's recommended procedures and installation sequence.
B. Fiberglass Reinforced Panels:
1. Cut sheets to meet supports allowing 1/8- inch clearance for every 8 foot of panel.
2. Apply panels to board substrate, above base, vertically oriented with seams plumb and pattern aligned with adjoining panels.
3. Apply panel moldings to all panel edges using silicone sealant providing for required clearances.
a. All moldings must provide for a minimum 1/8- inch of panel expansion at joints and edges, to insure proper installation.
b. Apply sealant to all moldings, channels, and joints between the system and different materials to assure watertight installation.
C. Wallcovering:
1. Install wallcoverings per manufacturer's written instructions.
2. Install sheets with texture running in the same direction for a uniform appearance.

3.3 CLEANING
A. Remove excess sealant from panels and moldings. Wipe panel down using a damp cloth and mild soap solution or cleaner.
B. Refer to manufacturer's specific cleaning recommendations. Do not use abrasive cleaners.

END OF SECTION C09770

SECTION - C09910: PAINTING

PART I - GENERAL

1.1 SECTION INCLUDES
A. Painting all exposed exterior and interior surfaces not specifically excluded herein.

1.2 RELATED SECTIONS
A. Finish Schedule as indicated on the Drawings
B. Unit Masonry Assemblies: SECTION C04810
C. Sealants and Caulking: SECTION C07920
D. Standard Steel Doors and Frames: SECTION C08110
E. Gypsum Board: SECTION C09250
F. Division 15 - Mechanical Work
G. Division 16 - Electrical Work

1.3 INTENT
A. Providing Owner selected finishes and colors for exposed surfaces as part of the Construction Contract. Contractor shall be responsible for field painting surfaces, including exposed mechanical and electrical equipment, piping, etc. "Exposed" shall mean visible from: ground level; floors and levels of construction of this contract; and floors and levels of buildings on adjacent properties.

1.4 QUALITY ASSURANCE
A. Qualifications of Workmen: Employ skilled workmen, experienced in the use of the specific product involved. Quality workmanship is required.
B. Approval of Manufacturer: Materials used shall be exactly as specified in quality. No claim by painting subcontractor to unsuitability or unavailability of any material specified, or his unwillingness to use same, or his inability to produce quality work with same, will be entertained.

1.5 SUBMITTALS
A. Paint Schedule: As soon as possible after Contract is signed, prepare and submit to Owner for acceptance an itemized PAINT SCHEDULE, listing the kinds and types of paints proposed for each and every application by name of manufacturer and brand name and color number of the paint for each application. This PAINT SCHEDULE submitted shall be similar in tentative paint listed contained hereinafter with no exceptions.

PART II - PRODUCTS

2.1 MANUFACTURER
A. Interior Painting: The Sherwin Williams Company, Cleveland, OH 44115. See National Accounts on the Drawings.

2.2 MATERIAL NOTICE
A. The use of paint products containing lead is prohibited.

2.3 MATERIALS
A. Paint List: Where any particular application is not mentioned in this list, Contractor shall figure on application of manufacturer's specification for application which is consistent with types and qualities listed herein.
1. Exterior Surfaces
a. Wood Trim
1) Prime Coat: Sherwin Williams All Surface Enamel Latex Primer
2) Intermediate: Sherwin Williams A-100 Exterior Acrylic Latex
3) Finish Coat: Sherwin Williams A-100 Exterior Acrylic Latex
b. Ferrous & Non-Ferrous Metals
1) Surface Prep: Hand Tool Cleaning Sherwin Williams S-W 14
2) Prime Coat: Sherwin Williams Kem Kromik Universal Metal Primer VOC
3) Intermediate: Sherwin Williams DTM Acrylic Gloss Coating
4) Finish Coat: Sherwin Williams DTM Acrylic Gloss Coating Galvanized
c. Surface Prep: Galvanized Metal Sherwin Williams S-W 10
1) Prime Coat: Sherwin Williams Pro-Cryl Universal Acrylic Primer
2) Intermediate: Sherwin Williams DTM Acrylic Gloss Coating
3) Finish Coat: Sherwin Williams DTM Acrylic Gloss Coating Concrete
d. Surface Prep: Sherwin Williams Concrete S-W 5
1) Prime Coat: Sherwin Williams Loxon Exterior Acrylic Masonry Primer
2) Intermediate: Sherwin Williams A-100 Exterior Satin Latex
3) Finish Coat: Sherwin Williams A-100 Exterior Satin Latex
e. Unit Masonry
1) Surface Prep: Block (Cinder and Concrete) Sherwin Williams S-W 3
2) Prime Coat: Sherwin Williams PM BLK FLR
3) Intermediate: Sherwin Williams A-100 Exterior Acrylic Latex
4) Finish Coat: Sherwin Williams A-100 Exterior Acrylic Latex
2. Interior Surfaces:
a. Wood (painted):
1) Surface Prep: Wood - Interior Sherwin Williams S-W 24
2) Prime Coat: Sherwin Williams PrepRite Classic Interior Latex Primer
3) Intermediate: Sherwin Williams ProMar 200 Zero VOC Interior Latex
4) Finish Coat: Sherwin Williams ProMar 200 Zero VOC Interior Latex
b. Gypsum Board:
1) Surface Prep: Gypsum Board - Sherwin Williams Interior & Exterior S-W 8
2) Prime Coat: Sherwin Williams ProMar 200 Zero VOC Interior Latex Wall Primer
3) Intermediate: Sherwin Williams ProMar 200 Zero VOC Interior Latex sheen per Finish Schedule
4) Finish Coat: Sherwin Williams ProMar 200 Zero VOC Interior Latex sheen per Finish Schedule
c. Ferrous Metals (exposed) include ceiling diffusers/grilles
1) Surface Prep: Hand Tool Cleaning Sherwin Williams S-W 14
2) Prime Coat: Sherwin Williams Kem Kromik Universal Metal Primer VOC
3) Intermediate: Sherwin Williams PorMar 200 Zero VOC Interior Latex Egg Shell, UNO
4) Finish Coat: Sherwin Williams ProMar 200 Zero VOC Interior Latex Egg Shell, UNO
d. Open Ceilings (Gypsum Board)
1) Prime Coat: Sherwin Williams ProMar 200 Zero VOC Interior Latex Primer
2) Intermediate: Sherwin Williams 200 Zero VOC Interior Latex Flat
3) Finish Coat: Sherwin Williams 200 Zero VOC Interior Latex Flat
e. Open Ceilings (Wood Trusses)
1) Prime Coat: Sherwin Williams 200 Zero VOC Interior Latex Primer
2) Intermediate: Sherwin Williams 200 Zero VOC Interior Latex Flat
3) Finish Coat: Sherwin Williams 200 Zero VOC Interior Latex Flat
f. Open Ceilings / Galvanized Metal - Steel
1) Surface Prep: Hand Tool Cleaning Sherwin Williams S-W 14
2) Prime Coat: Sherwin Williams Pro-Cryl Universal Acrylic Primer
3) Intermediate: Sherwin Williams 200 Zero VOC Interior Latex Flat
4) Finish Coat: Sherwin Williams 200 Zero VOC Interior Latex Flat

Coverage: Coverage coats noted above are minimum requirements. Contractor shall provide additional coats as needed for complete coverage.

Colors: Colors (shown on the drawings) have been selected by the Owner, who reserves the right to select colors formulated by manufacturers other than those listed hereinbefore. Paint manufacturer shall match color(s) selected and provide color match sample(s) to Owner for acceptance.

General Contractor to provide (1) one extra gallon of paint for each color.

2.4 SCAFFOLDING, DROP CLOTHS, ETC.
A. Provide in place, move as necessary during the course of the work, and finally remove from the premises when work is completed, or when directed, scaffolding, staging, ladders, plastic sheeting or other form of drop cloths, masking tapes, storage lockers for paint materials and mixing equipment as needed for proper and efficient performance of the work.

2.5 MIXES
A. Paint shall be ready-mixed unless otherwise accepted by the Owner, and shall be thinned or reduced only in accordance with manufacturer's instruction.

PART III - EXECUTION

3.1 CONDITIONS
A. Apply water-base paints only when temperature of surfaces to be coated and surrounding air temperatures are between 50 degrees F (10 C), unless otherwise permitted by manufacturer's instructions.
B. Apply solvent-thinned paints only when temperature of surfaces to be painted and surrounding air temperatures are between 45 degrees F (7 C) and 95 degrees F (35 C), unless otherwise permitted by paint manufacturer's printed instructions.
C. Do not apply paint in snow, rain, fog or mist; or when relative humidity exceeds 85% or to damp or wet surfaces; unless otherwise permitted by paint manufacturer's printed instructions.
D. All application of coatings shall be done under adequate illumination.

3.2 PREPARATION
A. Remove dirt, rust, scale, splinters, grease and oil from surfaces to be painted. Prepare surfaces prior to painting as specified by paint material manufacturer. Remove prefinished hardware, electrical devices, etc. before painting. Replace such items after finishes are completely dry. No exterior or interior painting shall be done until surfaces are thoroughly dry. Painting contractor is responsible for defective work from any cause, including unsuitable and improperly prepared surfaces.

3.3 PAINTING
A. General: Apply paint in accord with manufacturer's instructions. Use techniques and applications best suited for type of material being applied. Spread or flow materials on smoothly, with proper film thickness and without runs, sags, skips or other defects. Cut paint in neatly around glass and other edges. Mix, stir, blend, etc. in strict accord with manufacturer's instructions Specific attention is called to stirring time intervals for stains.
B. Wash metal surfaces with mineral spirits to remove dirt, oil or grease before applying primer. Remove rust or scale by wire brushing or sanding cleaning before painting. Marred shop coats of paint shall be cleaned and touched up with primer, prior to finish coats.
C. Galvanized metal surfaces shall be given a crystalline zinc phosphate pre-treatment. Two products for this purpose are Lithoform made by American Chemical Paint Co., Ambler, Pa., and Galvaprep #5, made by Neilson Chemical Co., Detroit, Michigan.
D. Masonry surfaces shall be cleaned of any soil, efflorescence, excess mortar, etc. If wet cleaning is used, allow adequate time for drying to allow for uniform penetration. All cracks shall be pointed or caulked. All voids in masonry joints shall be filled. Neutralize acid washed surfaces. Moisture content of surface shall not exceed 15% in order to apply sealer. Allow new surfaces to age four weeks prior to application of sealer.
E. Interior trim and cabinetry shall be back-primed with wood primer.
F. Remove hardware, hardware accessories, machined surfaces, plates, lighting fixtures, and similar items in place and not to be finish-painted, or provide surface applied protection prior to surface preparation and painting operations. Remove, if necessary, for completing painting of items and adjacent surfaces. Following completion of painting of each space or area, reinstall removed items.
G. Scratches, cracks and abrasions on surfaces to be painted shall be filled with a spackling compound flush with adjoining surface. When dry, sand smooth and seal before application of priming coat.
H. Enamel applied to wood or metal shall be sanded with fine sandpaper and then cleaned between coats to produce an even, smooth finish.
I. Metal door frames shall be made smooth by filling and sanding before finishing. Touch-up factory prime coat before applying first coat.
J. Prepare and stain interior wood siding as scheduled prior to installation.
K. Drying Time: Unless otherwise specified, exterior paints shall dry for 48-hours and interior paints for 24-hours between coats.
L. Sanding: Sand enamels and varnish lightly and dust between coats.
M. Acceptance:
1. Work is subject to acceptance by the Owner and any work not complying with these specifications shall be corrected to the satisfaction of the Owner.
2. Final coat of paint shall have visual evidence of hiding and uniform appearance.
3. Paint shall be evenly spread and smoothly flowed on without runs, sags, curtains or other evidence of poor application.
4. Spot painting will be allowed to correct soiled or damaged paint surfaces only when touch-up spot will blend into surrounding finish and is invisible to normal viewing. Otherwise, re-coat entire section to corners or visible stopping point.

3.4 PROTECTION AND CLEANING
A. Protect work, adjacent work, and materials, by suitable covering. Upon completion of work, remove paint and varnish spots from floors, glass and other surfaces.

3.5 CLEAN-UP
A. Upon completion of work of this section, remove related debris from the premises.

END OF SECTION C09910

DIVISION 10: SPECIALTIES

SECTION - C10155: PLASTIC LAMINATE TOILET COMPARTMENTS:

PART I - GENERAL

1.1 SECTION INCLUDES
A. Overhead braced toilet compartments and urinal screens.

1.2 REFERENCES
A. ASTM D 1037 - Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials; 1996a.
B. NEMA LD 3 - High Pressure Decorative Laminates; 1995.

PART II - PRODUCTS

2.1 MANUFACTURERS
A. Acceptable Manufacturers:
1. See National Accounts Schedule

2.2 MATERIALS
A. Doors, Panels, Horizontal Bracing, and Pilasters: Solid Phenolic core with decorative high pressure resin impregnated paper surface.
1. Color: As shown on drawings.
2. Wear Resistance: At least 400 percent more wear resistance than NEMA LD 3, general purpose type high pressure laminate.
3. Screw Pull-Out Resistance: 648 lb. (293 kg) perpendicular to surface, when tested in accordance with ASTM D 1037.
4. Edges: Black, polished and free of sharp edges.
5. Durability: Manufacturer's 15-year warranty against delamination and other defects.
6. Panel Thickness:
a. Doors and Panels: 3/4 inch (19 mm).
b. Pilasters: 3/4 inch (19 mm).
c. Horizontal Bracing: 3/4 inch (19 mm).
7. Height:
a. Pilasters: 85 inches (2159 mm).
b. Doors and Panels: 58 inches (1473 mm) to top.
c. Horizontal Bracing: 2 3/4 inches (69 mm).
B. Pilaster Mounting: Solid Phenolic core with decorative high pressure resin impregnated paper surface. Stainless steel shoe, 1.3 inch high, anchored to floor with two 3-1/4 inch Stud Anchors.
C. Headrail: Extruded aluminum, bright finish, with anti-grip design and wall mounting brackets.
D. Hardware: All hardware and fasteners shall be stainless steel set in Solid Phenolic core with decorative high pressure resin impregnated paper surface.
1. Panel and Pilaster Brackets: Cast or stamped Type 304 stainless steel brackets, with chrome plated shoulder and barrel nuts of vandal-proof one-way operation; attached to walls with screws and plastic expansion anchors.
2. Hinges: Self-closing heavy-duty stainless steel with nylon cams and pin assembly, and door home position adjustment by adjusting bottom hinge unit.
3. Door Latch: Slide latch, strike, and keeper, meeting ADA requirements with emergency access feature.
4. Door pulls: Accessible door pulls must meet ADA requirements.
5. Coat hook with bumper.

PART III - EXECUTION

3.1 INSTALLATION
A. Install in accordance with manufacturer's instructions.

END OF SECTION C10155

SECTION C10240 - TREILLAGE

PART I - GENERAL

1.1 DESCRIPTION
A. Light weight wall mounted trellis (screening) panels for vine growth and coverage.

1.2 RELATED SECTIONS
A. Unit Masonry Assemblies: SECTION C04810
B. Sealants and Caulking: SECTION C07920

1.3 SUBMITTALS
A. Submit Shop Drawings per SUBMITTALS Section, based on details on the drawings. Submit sufficient manufacturer's data to indicate compliance with these specifications.

1.4 SUBSTITUTIONS
A. Substitutions shall be considered in accordance with provisions of Section C01030.

1.5 QUALITY ASSURANCE
A. Manufacturer: Minimum 5-years experience manufacturing and supplying trellis (screening) structures of the type and style shown on the drawings.

PART II - PRODUCTS

2.1 MANUFACTURER
A. GREENsreen, Los Angeles, CA 90035

2.2 MATERIALS
A. Panels shall be rigid, three-dimensional welded wire grid fabricated 14-guage ASTM A641 galvanized steel wire.
B. Face Grid: Welded wires at each intersection to form a 2x2 inch face grid on both sides of panel.
C. Trusses: Face grids shall be separated by bent wire trusses spaced at 2-inch centers an welded to front and back face grids at each truss apex.
D. Length and Width: As indicated on the drawings
E. Thickness: 3-inches - verify with drawings
F. Tolerance: 1/8-inch in width and 1/4-inch in length
G. Welds: Weld trim to panels, all welds shall be ground smooth and suitable for painting.

2.3 ACCESSORIES
A. Trim: Trim pieces shall be fabricated from 20-guage ASTM A879 galvanized steel.
1. Edge Trim: 2-inch legs x thickness of panel x lengths as required
2. Flat Trim: 1-inch x length as required at center vertical intersections
3. Infill Panels: Support steel as required (by others). Verify locations required at Drive-Thru or where indicated on the drawings.
B. Clips and Fasteners: Provide manufacturer's standard types of clips and straps suitable for mounting conditions. Fabricated from ASTM A879 galvanized steel. Adjustable clips shall have a 1/4-inch diameter 18-8 stainless steel bolt, washer and nut.
C. Fasteners: Fasteners to masonry as shown on the drawings.

2.4 FINISHES
A. Components shall be factory finished after fabrication.
1. Pretreat (clean) components before priming with zinc-rich epoxy powder coat. Topcoat with polyester or polyester-urethane powder coat.
B. Salt Spray Resistance: Finish shall remain rust free with tested 1,680 hours per ASTM B117.
C. Color: As indicated on the drawings

PART III - EXECUTION

3.1 INSTALLATION
A. Install panels to maintain modular grid, plumb and square, centered within area designate.
B. Field cuts shall be at a minimum. Apply touch-up paint to edges when field cutting is required.
C. Fasteners shall meet all manufacturer's written requirements.
D. Repair bent or damaged panels. If panels cannot be repaired to satisfaction of the Architect, the panel shall be removed and replaced with a new panel.

3.2 CLEAN-UP
A. Upon completion of work of this section remove related debris from premises.

END OF SECTION C10240

SECTION - C10265: CORNER GUARDS

PART I - GENERAL

1.1 SECTION INCLUDES
A. Surface adhered corner guards as indicated on the drawings.

1.2 RELATED SECTIONS
A. Sealants and Caulks: SECTION C07920
B. Gypsum Board: SECTION C09250
Ceramic and Glass Tile: SECTION C09310

1.3 SUBMITTALS
A. Submit Shop Drawings per SUBMITTALS Section. Submit sufficient manufacture's data to indicate compliance with these specifications including:
1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Installation methods.

1.4 QUALITY ASSURANCE
A. Fire Performance: Identify panel competes with appropriate markings of applicable testing and inspection organization.
1. Surface Burning Characteristics: Tested per ASTM E 84 and complying for Class C Products.
a. Flame Spread: 76 or less
b. Smoke Developed: 200 or less

PART II - PRODUCTS

2.1 MANUFACTURER
A. Korogard, Fairlawn, OH4433

2.2 CORNER GUARDS
A. Koroseal "Koroguard" Series G815: Extruded Corner Guard adhered to substrate corner with glue. Exposed surfaces shall be free of wrinkling, chipping, discoloration, or other imperfections.
1. Dimensions: 1-1/2 inch legs at 90 degree angle
2 Profile: High impact vinyl acrylic extrusion, nominal 0.078-inch thick..
3. Extrusion: Pebble grain finish. Contains EPA registered Micro-Check antimicrobial agent.
4. Adhesion: Loctite PL Paneling and Trim Adhesive.
B. Koroseal "Koroguard" Series GS15 16-guage Stainless Steel Corner Guard adhered to substrate corner. Exposed surfaces shall be free of discoloration or other imperfections.
1. Dimensions: 1-1/2-inch legs at 90 degree angle.
2. Material: Stainless Steel, type 304.
3. Finish: No. 4 Satin.
4. Adhesion: Loctite PL Paneling and Trim Adhesive.

PART III - EXECUTION

3.1 EXAMINATION
A. Verify by examination that wall surfaces are acceptable to receive the specified guard systems. Notify the Architect in writing if wall surfaces are not acceptable. Do not begin installation until unacceptable conditions have been corrected.

3.2 INSTALLATION
A. Install corner guards to wall securely in accordance with manufacturer's written instructions.
B. Install corner guards accurately in location, alignment, and elevation.

END OF SECTION C10265

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FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
PRINTED FOR
PERMIT RESUBMITTAL

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

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CONSULTANT PROJECT # LAX22-0129-01
DATE 10/20/2025
DRAWN BY M.M.O./ K.G.

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SHEET
SPECIFICATIONS

SHEET NUMBER
A-910

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SECTION C10420 - IDENTIFYING SIGNAGE

PART I - GENERAL

1.1 DESCRIPTION
A. Extent of Signage as indicated on drawings and specified herein.
B. Exterior signage can be found on the site drawings.

1.2 QUALITY ASSURANCE
A. Drawings and specifications are based on one manufacturer's standard products.

1.3 SUBMITTALS
A. Submit shop drawings for directories and door identification signs including large-scale sections of typical numbers. Show reinforcement, anchorages, components and finishes.

PART II - PRODUCTS

2.1 SIGNAGE SUPPLIERS
A. Suppliers
1. Clayton Industries, Lake City, GA 30260 see Owner's Sign Package
2. Anchor Signs, Charleston, SC 29405 see Owner's Sign Package
3. Chandler Signs, Atlanta, GA 30534, see Owner's Sign Package
4. National Signs, Houston, TX 77054, see Owner's Sign Package
5. Thomas Signs & Awning, Clearwater, FL 33762, see Owner's Sign Package

2.2 DOOR IDENTIFICATION SIGNS/PUBLIC AREAS
A. Provide door identification signs that read:
MAN with wheelchair symbol
WOMAN with wheelchair symbol
ELECTRICAL ROOM
MECHANICAL ROOM
EMERGENCY EXIT ONLY (1)
EXIT (3)
1. All signage, exterior and interior, shall be in accordance with state and local authorities including raised letters, Braille and symbols.
B. Materials: See Owner's sign package for materials and sizes.
C. Exterior Signage: See Owner's sign package.

PART III - EXECUTION

3.1 INTERIOR SIGNAGE INSTALLATION
A. Install units plumb and level, in locations as shown. Securely attach to supporting structure by means of foam tape and silicone adhesive, in accordance with manufacturer's installation instructions.

3.2 EXTERIOR SIGNAGE
A. Refer to the Owners sign package.
B. Auger hole for each post, set post plumb and fill to grade with concrete, assemble sign panels in accordance with manufacturer's instructions.

END OF SECTION C10420

SECTION - C10523: PORTABLE FIRE EXTINGUISHERS

PART I - GENERAL

1.1 SECTION INCLUDES
A. Portable fire extinguishers and mounting brackets for fire extinguishers.

1.2 SUBMITTALS
A. Submit Shop Drawings per SUBMITTALS Section. Submit sufficient manufacturer's data to indicate compliance with these specifications including:
1. Fire Extinguishers: Materials description including rating and classifications.
2. Schedules showing each type of extinguisher and mounting information.

1.3 RELATED SECTIONS
A. Fire Protection Drawings
B. Division 15 - Plumbing Work

1.4 QUALITY ASSURANCE
A. Provide fire extinguishers of type approved by UL, State Fire Marshal's Office and local regulatory agencies.
B. Provide fully charged fire extinguishers produced by a single manufacturer.

1.5 WARRANTY
A. Special warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of portable fire extinguishers that fails in materials or workmanship within specified warranty period.
1. Failures include, but are not limited to, the following:
a. Failure of hydrostatic test according to NFPA 10.
b. Faulty operation of valves or release levers.
2. Warranty period: 1 year from date of substantial completion.

PART II - PRODUCTS

2.1 PORTABLE FIRE EXTINGUISHERS
A. Manufacturers:
1. Amerex Corporation, Trussille, AL 35173
2. Ansul Incorporated, Marinette, WI 54143
3. Badger Fire Protection, Charlottesville, VA 22901
4. Buckeye Fire Equipment Company, Kings Mountain, NC 28086
5. Fire End & Croker Corporation, Elmsford, NY 10523
6. General Fire Extinguisher Corporation, Aston, PA 19014
7. JL Industries, Inc., Bloomington, MN 55435
8. Larsen's Manufacturing Company, Minneapolis, MN 55432
B. Multi-Purpose Chemical Type: Extinguisher unit containing a fluidized and siliconized mono ammonium phosphate powder, nonconductive and nontoxic.
1. Construction: Heavy duty steel cylinder with metal valve and siphon tube, O-ring seal replaceable valve stem seal, visual pressure gauge, pull pin and upright squeeze grip.
2. Finish: Factory powder coated, Red.
3. Effectiveness (Rating): Class A, B and C fires
C. Class K Wet chemical Type: Extinguisher unit containing a low "pH" potassium acetate solution.
1. Construction: Stainless steel cylinder with protective nozzle tip orifice seal and nonmetallic nozzle tip finger guard, O-ring seal, replaceable valve stem seal, visual pressure gauge, pull pin, and upright squeeze grip.
2. Effectiveness (Rating): Class K fires.
D. Accessories:
1. Mounting Brackets: Provide manufacturer's standard steel bracket, designed to secure fire extinguisher to wall or structure, of sizes required for types and capacities of fire extinguishers indicated.

PART III - EXECUTION

3.1 INSTALLATION
A. Install in locations and at mounting heights complying with applicable regulations.
B. Apply Wall Signs where shown or directed after field painting has been completed and accepted.
C. Ensure that each extinguisher is fully charged and that inspection of each extinguisher has been performed, as evidenced by the National Association of Fire Equipment Distributors certification tag, just prior to turnover.

3.2 CLEAN-UP
A. Upon completion of work of this section remove related debris from premises.

END OF SECTION C10523

SECTION: C10535 - CANOPIES

PART I - GENERAL

1.1 DESCRIPTION OF WORK
A. Work in this section includes furnishing and installation of extruded aluminum overhead hanger rod style canopies.

1.2 QUALITY ASSURANCE
A. Drawings and specifications are based on one manufacturer's standard products.

1.3 SUBMITTALS
A. Submit Shop Drawings per SUBMITTALS Section; Base on details shown on the Drawings. Submit manufacturer's technical data for each type of acoustical ceiling unit and suspension system required.
2. Canopy must conform to local building codes, provide PE stamped calculations when required.
3. Confirm dimensions prior to preparation of shop drawings when possible.
4. Submit shop drawings showing structural component locations/positions, material dimensions and details of construction and assembly.

PART II - PRODUCTS

2.1 MANUFACTURER
A. Mapes Canopies, Lincoln, NB 68514. Phone: (888) 273-1132
1. Super Lumideck (Covered), HR Hanger Rod Supported
2. SuperShade (Louvered), HR Hanger Rod Supported

2.2 MATERIALS AND FINISHES
A. Decking shall consist of 3-inch extruded flat soffit 0.078 decking.
B. Intermediate framing members shall be extruded aluminum, alloy 6063-T6, in profile and thickness shown in current manufacturer literature.
C. Hanger rods and attachment hardware shall be powder coated.
D. Fascia shall be standard 8-inch extruded "GC" style.
E. Flashings shall be by the manufacturer
F. Finishes: Finish type shall be 2-coat Kynar finish, see drawings for color.

2.3 FABRICATION
A. All canopies are shipped in preassembled sections for ease of installation.
B. All connections shall be mechanically assembled utilizing 3/16-inch fasteners with a minimum shear stress of 350 pounds pre-welded or factory-welded connections are not acceptable.
C. Decking shall be designed with interlocking roll-formed aluminum members.
D. Concealed drainage. Water shall drain from covered surfaces into intermediate trough and be directed to side Scupper near front.

PART III - EXECUTION

3.1 INSPECTION
A. Confirm that surrounding area is ready for the canopy installation.
B. Installer shall confirm dimensions and elevations to be as provided by Mapes Industries.
C. Erection shall be performed by an approved installer and scheduled after all concrete, masonry and roofing in the area is completed

3.2 INSTALLATION
A. Installation shall be in strict accordance with manufacturer's shop drawings. Particular attention should be given to protecting the finish during handling and erection
B. Canopy Installation: Installer provides 1/2-inch stainless steel lag bolts at 18" on center at head locations, 1/2-inch stainless steel thru bolts at all tie back locations, refer to manufacturer's recommendations.

3.3 CLEAN-UP
A. After installation, entire system shall be left in a clean condition.

END OF SECTION C10530

SECTION - C10810: TOILET ACCESSORIES

PART I - GENERAL

1.1 SECTION INCLUDES
A. Toilet Accessories: Provide and install per the schedule on the drawings.
B. All bathroom fixtures and accessories shall comply with all federal, state and local handicap accessibility code requirements.

1.2 RELATED SECTIONS
A. Sealants and Caulking: SECTION C07920
B. Rough Carpentry: SECTION C06000

1.3 SUBMITTALS
A. Submit Shop Drawings per SUBMITTALS Section; Base on details shown on the Drawings. Submit manufacturer's technical data for each accessory required.

PART II - PRODUCTS

2.1 MANUFACTURER
A. Manufacturers: As indicated in the Restroom Legend on the Drawings.

PART III - EXECUTION

3.1 INSPECTION
A. Inspect blocking and plate inserts in framing to determine if material is in proper position for installation of accessories prior to wallboard surfacing being applied. Accessories will be securely attached to framing. Grab bars will be installed to withstand a 250 pound. loading condition; provide necessary concealed anchorage devices to meet load requirements.

3.2 INSTALLATION
A. Blocking: Contractor to provide and install all necessary blocking for the accessories.
B. Install items in accord with manufacturer's instructions, in locations shown on the drawings in cooperation with the work of other trades.
C. Remove protective covers at final clean-up of installation.

3.3 CLEAN-UP
A. Upon completion of work, remove related debris from the premises.

END OF SECTION C10820

DIVISION 12 - FURNISHINGS

SECTION C12390 - MILLWORK, CABINETRY AND COUNTERTOPS

PART I - GENERAL

1.1 DESCRIPTION
A. Coordinate installation of Owner supplied millwork, cabinetry and countertops.

1.2 RELATED WORK SPECIFIED ELSEWHERE
A. Concrete Footings/Slab on Grade: SECTION C03300
B. Finish Carpentry: SECTION C06410
C. Vinyl Base: SECTION C09655
D. Division 15 - Plumbing Work

1.3 SUBMITTALS
A. Submit Shop Drawings per SUBMITTALS Section; Base on details shown on the Drawings.

PART II - PRODUCTS

2.1 Manufacturer:
A. Clayton Fixture or FCC, see National Accounts. Owner's contractor will supply material as shown. Material supplied includes, but is not limited to:
1. Cabinetry
2. Counters
3. Restroom lavatories and mirror
4. Window Sills
5. Wood Trim
6. Wainscoting
7. Shelving

PART III - EXECUTION

3.1 INSPECTION
A. Examine all surfaces to which the cabinets and tops are to be applied. Do not proceed until unsatisfactory conditions are corrected and surfaces are acceptable of the surfaces.

3.2 INSTALLATION
A. Installation of millwork, cabinets, countertops, etc. shall be performed by Manufacturer.
B. Installation of wainscot shall be preformed by General Contractor.
C. Installation of concrete curbs for cabinetry shall be provided by the General Contractor.

END OF SECTION C12390

SECTION C12500 - WINDOW TREATMENT

PART I - GENERAL

1.1 DESCRIPTION
A. Manually operated sunscreen roller shades, provided and installed by the contractor.

1.2 RELATED SECTIONS
A. Rough Carpentry: SECTION C06000
B. Gypsum Board: SECTION C09250

1.3 SUBMITTALS
A. Submit Shop Drawings per SUBMITTALS Section, based on details on the drawings. Submit sufficient manufacturer's data to indicate compliance with these specifications including:
1. Preparation instructions and recommendations.
2. Styles, dimensions, profiles, finishes and operating instructions.
3. Mounting details and installation methods.

1.4 QUALITY ASSURANCE
A. Single-Source: Provide roller shades units and fabrics by a single manufacturer.
B. Fire Performance: Identify roller shade components with appropriate markings of applicable testing and inspection organization.
1. NFPA 701-99 small and large-scale vertical burn.
C. Anti-Microbial Performance: Identify fabric with appropriate markings of applicable testing and inspection organization.
1. ASTM E 2180, ASTM G21, AATCC30 Part 3, ASTM D 3273, GREENGUARD Mold and Bacteria Standard ASTM 6329, Microban Safety Standard Performance: ANSI/WCMA A100.1-2010
D. WARRANTY
1.5 A. Roller Shade Hardware: Manufacturer's standard twenty-five (25) year limited warranty. Chain to have manufacturer's standard one (1) year warranty.
B. Roller Shade Fabric: Manufacturer's standard ten (10) year limited warranty.

PART II - PRODUCTS

2.1 MANUFACTURERS
A. Roller Shade Hardware:
1. Roll-A-Shade, Elsinore, CA 92502
2. Window Interiors, Altamote Springs, FL 32701
B. Roller Shade Fabric:
1. Phifer Incorporated, Tusaloosa, AL 35401

2.2 ROLLER SHADE
A. Manual operation interior, chain drive, sunscreen roller shades in all windows as shown on the drawings. Fabricate units to completely fill openings from head to sill and jamb to jamb.
1. Construction of shade includes the fabric, the hem weight, hem-pocket and/or bottom rail with end caps, shade roller tube and the attachment of the shade band to the roller tube. Sewn hems and open hem packets are not acceptable.
a. Hem weight shall be continuous inside inside a sealed hem pocket. hem pocket construction and hem weights shall be similar, for all shades within on space.
2. Fascia: Continuous removable extruded aluminum fascia that attaches to shade mounting brackets with out the use of adhesives, magnetic strips or exposed fasteners.
a. Fascia shall be able to be installed across one shade bands in one piece
b. Fascia shall fully conceal brackets, shade roller and fabric on the tube.
c. Provide bracket/fascia end caps as required.
d. Color as indicated on drawings.
3. Manual Operated Chain Drive: Stainless steel No. 10 chain rated to 90 pound breaking strength. Nickel plated chain shall not be accepted.
a. Drive sprocket and brake assembly shall have a minimum of four (4) wrap springs.
b. Assembly shall be fully mounted on steel support bracket which may be removed and reinstalled without effecting the roller shade limit adjustments.
c. Tension device shall be installed using a device that when not installed properly renders the shade partially inoperable.
4. Shade Brackets:
a. Shade hardware shall be constructed of minimum 1/16-inch thick plate steel.
b. Provide hardware allowing for the removal of shade roller tube from brackets without removing hardware from opening.
c. Provide hardware capable for installation of a removable fascia. No exposed fastening devices of any kind.
d. Shade bands shall be adjustable without removing shade roller tube or hardware from window.
e. Brackets shall be fully integrated with all accessories.

SHADE FABRIC
A. Visually Transparent Single-Fabric Shade Cloth as indicated in the Finish Schedule.

PART III - EXECUTION

INSTALLATION
A. Install shades level, plumb and true in accordance with manufacturer's instructions including recommended support brackets and fasteners.
B. Install shades with adequate clearance to permit smooth operation of the shades. Demonstrate shades to be in smooth, uniform working order.

END OF SECTION C12492

DIVISION 15
SECTION C15000 - MECHANICAL
See Mechanical Drawings for HVAC Specifications

SECTION C15100 - PLUMBING
See Plumbing Drawings for Plumbing Specifications

DIVISION 16
SECTION C16000 - ELECTRICAL
See Electrical Drawings for Electrical Specifications

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FSR#05484
BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
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NO.	DATE	DESCRIPTION

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CONSULTANT PROJECT # LAX22-0129-01
DATE 10/20/2025
DRAWN BY M.M.O./ K.G.

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SHEET
SPECIFICATIONS

SHEET NUMBER
A-911

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A			F			M			S		
	A.B.	ANCHOR BOLT		FB.	FLAT BAR (STEEL SHAPE)		MANUF.	MANUFACTURER		S.A.D.	SEE ARCHITECTURAL DRAWINGS
	AC	ALASKA CEDAR (WOOD)		F.D.	FLOOR DRAIN		MATL	MATERIAL		S.B.	SOLID BLOCKING
	ABT	ABOUT		FDN	FOUNDATION		MAX.	MAXIMUM (NO MORE THAN; AT MOST)		S.C.D.	SEE CIVIL DRAWINGS
	ABV	ABOVE		F.F.	FAR FACE OR FIELD FASTENER		M.B.	MACHINE BOLT		SCHED.	SCHEDULE
	ADD'L	ADDITIONAL		FIN.	FINISH(ED)		MC	MISCELLANEOUS CHANNEL (STEEL SHAPE)		SDS	SIMPSON STRONG-DRIVE SCREW, INSTALLED PER ICC ESR-2236
	ADJ.	ADJACENT		FLG.	FLANGE		MECH.	MECHANICAL		SECT.	SECTION
	ALT.	ALTERNATE		FLR	FLOOR		MEP	MECHANICAL, ELECTRICAL, PLUMBING		S.E.D.	SEE ELECTRICAL DRAWINGS
	AMP.	AMPLITUDE		F.N.	FIELD NAIL		MEZZ.	MEZZANINE		SEOR	STRUCTURAL ENGINEER OF RECORD
	AGGR.	AGGREGATE		F.O.	FACE OF		MF	MOMENT FRAME		SEP	SEPARATION
	APPROX.	APPROXIMATE(LY)		F.O.C.	FACE OF CONCRETE		MFR	MANUFACTURE(R)		SFHCS	SOCKET FLAT HEAD CAP SCREW
	ARCH.	ARCHITECT(URE)(URAL)		F.O.S.	FACE OF STUD OR FACE OF STEEL		M.I.	MALLEABLE IRON		SHT	SHEET
				F.P.	FULL PENETRATION (WELD)		MIN.	MINIMUM (NO LESS THAN; AT LEAST)		SHTG	SHEATHING
B				FRPF	FIREPROOFING		MISC.	MISCELLANEOUS		SIM.	SIMILAR
	BD	BOARD		FRMG	FRAMING		MOD.	MODIF(Y)(ICATION)		S.L.B.B.	SHORT LEGS BACK TO BACK
	BF	BRACED FRAME		FRN	FURNITURE		MT	MISCELLANEOUS TEE (STEEL SHAPE)		S.L.D.	SEE LANDSCAPE DRAWINGS
	B.F.	BOUNDARY FASTENER		F.S.	FAR SIDE		MTL	METAL		SLRS	SEISMIC LOAD RESISTING SYSTEM
	B.L.	BOTTOM LOWER		FT	FEET OR FOOT					S.M.D.	SEE MECHANICAL DRAWINGS
	BLDG	BUILDING		FTG.	FOOTING					S.M.S.	SHEET METAL SCREW
	BLK	BLOCK				N				S.O.G.	SLAB ON GRADE
	BLKG	BLOCKING	G				N	NORTH		SP	SOUTHERN PINE (WOOD)
	BM	BEAM		ga	GAUGE		(N)	NEW		SPC.	SPAC (ES)(ING)
	B.N.	BOUNDARY NAIL(ING)		GALV.	GALVANIZED		N/A	NOT APPLICABLE		S.P.D.	SEE PLUMBING DRAWINGS
	BOT.	BOTTOM		GAR.	GARAGE		N.F.	NEAR FACE		SPEC(S).	SPECIFICATION(S)
	B.O.	BOTTOM OF		G.B.	GRADE BEAM		N.I.C.	NOT IN CONTRACT		SQ.	SQUARE
	B.O.C.	BOTTOM OF CONCRETE		G.C.	GENERAL CONTRACTOR		NO.	NUMBER		S.S.	STAINLESS STEEL
	B.O.F.	BOTTOM OF FOOTING		GEN.	GENERAL		NOM.	NOMINAL		S.S.	SHORT SLOTTED (HOLE)
	B.O.S.	BOTTOM OF STEEL		GLB	GLUED LAMINATED TIMBER BEAM		N&FS	NEAR & FAR SIDE		SSLT.	SHORT SLOTTED (HOLE)
	BPL.	BASEPLATE		GLC	GLUED LAMINATED TIMBER COLUMN		N.T.S.	NOT TO SCALE		ST	AMERICAN STANDARD TEE (STEEL SHAPE)
	BRG	BEARING		GR.	GRADE		NR	NEAR			
	B.S.	BOTH SIDES		GYP.	GYPSUM		N.S.	NEAR SIDE		STAG.	STAGGER(ED)
	BSMT	BASEMENT					NS	NORTHSOUTH		STAGG.	STAGGER(ED)
	B.U.	BOTTOM UPPER	H				N.W.	NORMAL WEIGHT		STD	STANDARD
	BTNN	BETWEEN		(H), HORIZ.	HORIZONTAL		NWC	NORMAL WEIGHT CONCRETE		STFNR.	STIFFENER
				H.C.T.	HOLLOW CLAY TILE	O				STIR.	STIRRUP
C				HD	HOLDOWN		O.C.	ON CENTER		STL	STEEL
	C	CHANNEL (STEEL SHAPE)		H.D.G.	HOT-DIP GALVANIZED		O.D.	OUTSIDE DIAMETER		STRUC.	STRUCTURAL
	CFS	COLD-FORMED STEEL		HDPE	HIGH-DENSITY POLYETHYLENE		O.F.	OUTSIDE FACE		SUP.	SUPPORT
	CIDH	CAST-IN-DRILLED HOLE		HDR.	HEADER		OG	OPEN GRAIN (REDWOOD)		SUSP.	SUSPENDED
	C.I.P.	CAST - IN-PLACE		HGR	HANGER		O.H.	OPPOSITE HAND		SYM.,SYMM.	SYMMETRICAL
	C.J.	CONSTRUCTION JOINT		HK	HOOK		OPG	OPENING			
	C.J.P.	COMPLETE JOINT PENETRATION (GROOVE WELD)		H.S.	HEADED STUD OR HIGH STRENGTH (BOLT)		OPNG	OPENING	T		
	CLG	CEILING					OPP.	OPPOSITE		T&B	TOP & BOTTOM
	CLR	CLEAR, CLEARANCE		HSS	HOLLOW STRUCTURAL SECTION		ORIG.	ORIGINAL		T&G	TONGUE & GROOVE
	C.M.U.	CONCRETE MASONRY UNIT		HT	HEIGHT		O.S.	OVERSIZED (HOLE)		T.B.D.	TO BE DETERMINED
	COL.	COLUMN								TD	TIE DOWN
	COLL.	COLLECTOR	I			P				THD	THREADED
	CONC.	CONCRETE		I.D.	INSIDE DIAMETER		P.A.F.	POWDER ACTUATED FASTENER(S)		THK	THICK(NESS)
	CONN.	CONNECTION		I.E.	THAT IS, SPECIFICALLY		PC, PCS	PIECE, PIECES		THRD	THREADED
	CONST.	CONSTRUCT (ING)(ION)		I.F.	INSIDE FACE		PCF	POUNDS PER CUBIC FOOT		THRU	THROUGH
	CONT.	CONTINUOUS		IN.	INCH		PCI	POUNDS PER CUBIC INCH		T.L.	TOP LOWER
	CONTR.	CONTRACT(OR)		INCL.	INCLUDED		P.D.	POWDER DRIVEN		T.N.	TOE NAIL
	CRVD.	CURVED		INFO.	INFORMATION		P.D.F.	POWDER DRIVEN FASTENER(S)		T.O.	TOP OF
	C.P.	COMPLETE PENETRATION (WELD)		INSP.	INSPECTION		P.E.F.	(PLYWOOD) PANEL EDGE FASTENER		T.O.C.	TOP OF CONCRETE ELEVATION
	CST.	CONSTRUCTION		INSUL.	INSULATION		P.E.N.	(PLYWOOD) PANEL EDGE NAILING		T.O.F.	TOP OF FOOTING
	CTR	CENTER, CENTRAL		INT.	INTERIOR		PERF.	PERFORATED		T.O.S.	TOP OF STEEL
	CTSK	COUNTERSINK		IRREG.	IRREGULAR		PIPE-X	EXTRA STRONG PIPE		TS	TUBE STEEL
	CHT	COUNTERWEIGHT					PIPE-XX	DOUBLE EXTRA STRONG PIPE		T.U.	TOP UPPER
	CVN	CHARPY V-NOTCH					P.J.P.	PARTIAL JOINT PENETRATION (GROOVE WELD)		TYP.	TYPICAL
D			J						U		
	d	PENNY HEIGHT (NAIL)		JCT.	JUNCTION		PL	PLATE		U.O.N.	UNLESS OTHERWISE NOTED
	D2L	NELSON WELDED REBAR		JST	JOIST		P.L.	PROPERTY LINE		URM	UNREINFORCED MASONRY
	D.B.A.	DEFORMED BAR ANCHOR		JT, JNT	JOINT		PLWD.	PLYWOOD			
	DBL	DOUBLE					PLYWD	PLYWOOD	V		
	DEMO.	DEMOLITION					P.P.	PARTIAL PENETRATION (WELD)		(V).	VERT.VERTICAL
	DTL	DETAIL					PREFAB.	PREFABRICATE(D)		VOL.	VOLUME
	DF	DOUGLAS FIR (WOOD)					PRELIM.	PRELIMINARY		V.I.F.	VERIFY IN FIELD
	DIA.	DIAMETER					PRESTR.	PRESTRESSED		V.W.M.	VERIFY W/ MANUF.
	DIAG.	DIAGONAL					PREV.	PREVIOUS(LY)			
	DIM.	DIMENSION					PROJ.	PROJECT (ED) (ING) (ION)	W		
	DISCONT.	DISCONTINUOUS	K				PSF	POUNDS PER SQUARE FOOT		W/	WITH
	DN	DOWN		K	KIP (1,000 POUNDS)		PSI	POUNDS PER SQUARE INCH		WD	WOOD
	DO	DITTO		K.D.	KILN DRIED		PSL	PARALLEL STRAND LUMBER		WF	WIDE FLANGE
	DP	DEEP		KSI	KIPS PER SQUARE INCH		PT	POINT		W.H.	WEB HORIZONTAL
	DSA	CA DIV. OF STATE ARCH.		KSF	KIPS PER SQUARE FOOT		P.T.	POST-TENSION(ED)(ING)		W/IN	WITH IN
	DWG	DRAWING								WKG	WORKING
E			L			R				W.O.	WHERE OCCURS
	(E)	EXISTING		L	ANGLE (STEEL SHAPE)		(R)	REUSED		W/O	WITHOUT
	EA.	EACH		LB.	POUND		RAD.	RADIUS		W.P.	WORK POINT
	E.F.	EACH FACE		LGS	LIGHT-GAUGE STEEL		RB	ROUND BAR (STEEL SHAPE)		WPFG	WATERPROOFING
	E.G.	SUCH AS		L.L.B.B.	LONG LEGS BACK TO BACK		R.C.	REINFORCED CONCRETE		WT	WIDE-FLANGE TEE (STEEL SHAPE)
	EL.	ELEVATION		L.L.H.	LONG LEG HORIZONTAL		REINF.	REINFORC(ED)(ING)		WT.	WEIGHT
	ELEC.	ELECTRICAL		L.L.V.	LONG LEG VERTICAL		REBAR	REINFORCING BAR		W.W.F.	WELDED WIRE FABRIC
	ELEVR	ELEVATOR		LMBR	LUMBER		REF.	REFERENCE	X		
	E.J.	EXPANSION JOINT		L.S.	LONG SLOTTED (HOLE)		REQ'D	REQUIRED		XS	EXTRA STRONG (PIPE)
	EMBED.	EMBEDMENT		LSL	LAMINATED STRAND LUMBER		RET.	RETAINING		XXS DOUBLE	EXTRA STRONG (PIPE)
	E.N.	EDGE NAIL(ING)		LSLH	LONG SLOTTED (HOLE) W/ LONG AXIS HORIZ.		REV.	REVIS(E)(ION)			
	E.O.	EDGE OF		LSLT.	LONG SLOTTED (HOLE)		RF	ROOF		SPECIAL CHARACTERS	
	E.O.S.	EDGE OF SLAB		LSLV	LONG SLOTTED (HOLE) W/ LONG AXIS VERT.		RFG	ROOFING		&	AND
	E.P.S.	EXPANDED POLYSTYRENE		LTWT	LIGHTWEIGHT		RND	ROUND		∠	ANGLE (MEASUREMENT)
	EQ.	EQUAL (EQUIVALENT)		LVL	LEVEL OR LAMINATED VENEER LUMBER		R.O.	ROUGH OPENING		@	AT
	EQ. SP.	EQUALLY SPACED		LWC	LIGHTWEIGHT CONCRETE		RW	REDWOOD		℄	CENTER LINE
	EQUIP.	EQUIPMENT								Ø	DIAMETER OR ROUND
	E.S.	EACH SIDE								//	PARALLEL
	E.W.	EACH WAY								⊥	PERPENDICULAR
	E.W.E.F.	EACH WAY, EACH FACE								P L	PROPERTY LINE
	E/W	EAST/WEST								#	POUND OR NUMBER
	EXP.	EXPANSION								±	TOLERANCE
	EXT.	EXTERIOR									

OTHER ABBREVIATIONS (PRODUCT ABBREVIATIONS):

FOR WOOD FRAMING FASTENER AND CONNECTOR ABBREVIATIONS, SEE SIMPSON STRONG-TIE WOOD CONSTRUCTION CONNECTORS CATALOG (available at www.strongtie.com).

FOR POWDER-DRIVEN FASTENERS AND CONCRETE ANCHOR ABBREVIATIONS, SEE HILTI NORTH AMERICAN PRODUCT TECHNICAL GUIDE (available at www.us.hilti.can) AND SIMPSON STRONG-TIE ANCHOR SYSTEMS CATALOG (available at www.strongtie.com).

FOR LIGHT-GAUGE STEEL CONNECTOR ABBREVIATIONS, SEE STEEL NETHORK LIGHT STEEL FRAMING CONNECTION CATALOG (available at www.steelnetwork.com) AND SIMPSON STRONG-TIE COLD-FORMED STEEL CONNECTORS CATALOG (available at www.strongtie.com).

FOR ENGINEERED WOOD PRODUCT ABBREVIATIONS, SEE ILEVEL CATALOG (available at www.ilevel.com), LP BUILDING PRODUCTS CATALOG (available at www.lpcorp.com), REDBUILT CATALOG (available at www.redbuilt.com), AND STANDARD STRUCTURES, INC., CATALOG (available at www.standardstructures.com)

B4 STRUCTURAL ABBREVIATIONS

HIT-RE 500-V3 EPOXY ADHESIVE ANCHOR
ICC ESR #3814

REBAR/BOLT SIZE	MINIMUM EMBEDMENT*	MINIMUM MEMBER THICKNESS	MAX EMBEDMENT	MINIMUM SPACING AND EDGE DISTANCE	PULL TEST VALUE (LBS)
					NORMAL WEIGHT CONCRETE (145 PCF)
#3 OR 3/8	2 3/8"	3 5/8"	7 1/2"	1 7/8"	2050
#4 OR 1/2	2 3/4"	4"	10"	2 1/2"	2800
#5 OR 5/8	3 1/8"	4 5/8"	12 1/2"	3 1/8"	3200
#6 OR 3/4	3 1/2"	5 1/2"	15"	3 3/4"	3600
#7 OR 7/8	3 1/2"	5 1/2"	17 1/2"	4 3/8"	4000
#8 OR 1	4"	6 1/4"	20"	5"	4400

NOTES
1. MINIMUM F'C = 2500 PSI.
2. DESIGN BASED ON CRACKED CONCRETE.
3. VALUES FOR REBAR. -ASTM A615-GRADE 60 MIN.
4. VALUES FOR SINGLE ANCHOR ACTION ONLY.
5. ASSUMES ALL HOLES TO BE DRILLED BY A HAMMER DRILL WITH A CARBIDE BIT.
6. *FOR DEEPER EMBEDMENTS THE MINIMUM MEMBER THICKNESS MUST BE INCREASED BY THE SAME AMOUNT
7. PULL TEST ANCHORS IN ACCORDANCE WITH LISTED TESTING REPORT.
8. G.C. TO FOLLOW ALL PROCEDURES, TESTS AND INSPECTIONS SET FORTH WITHIN THE APPLICABLE MANUF. ICC REPORT

A4 ADHESIVE ANCHOR SCHEDULE

HILTI KWIK BOLT-TZ2
ICC ESR #1917

SIZE	EMBEDMENT	MINIMUM MEMBER THICKNESS	MINIMUM EDGE DISTANCE	TORQUE TEST VALUE (FT-LBS)
				NORMAL WEIGHT CONCRETE (145 PCF)
3/8"	2 5/16"	4"	4 3/8"	*25
1/2"	2 3/8"	4"	5 1/2"	40
5/8"	3 9/16"	5"	6 1/2"	60
3/4"	4 5/16"	6"	10"	110

NOTES
1. MINIMUM F'C = 2500 PSI
2. DESIGN BASED ON CRACKED CONCRETE.
3. VALUES FOR CARBON STEEL BOLT.
4. VALUES FOR SINGLE ANCHOR ACTION ONLY. SPACING BETWEEN ANCHORS IS 12 DIAMETERS OR MORE.
5. TEST TORQUE MUST BE REACHED WITHIN 1/2 TURN OF THE NUT. * (1/4 TURN OF NUT FOR 3/8" ANCHOR)
6. G.C. TO FOLLOW ALL PROCEDURES, TESTS AND INSPECTIONS SET FORTH WITHIN THE APPLICABLE MANUF. ICC REPORT.

A3 EXPANSION ANCHOR SCHEDULE

1. THE OWNER SHALL EMPLOY THE SERVICES OF ONE OR MORE SPECIAL INSPECTORS TO PROVIDE SPECIAL INSPECTIONS DURING CONSTRUCTION FOR THE FOLLOWING:
   A. SHALLOW FOUNDATIONS:
      1. INSPECT SOILS BELOW FOOTINGS FOR ADEQUATE BEARING CAPACITY AND CONSISTENCY WITH GEOTECHNICAL REPORT.
      2. INSPECT REMOVAL OF UNSUITABLE MATERIAL AND PREPARATION OF SUBGRADE PRIOR TO PLACEMENT OF CONTROLLED FILL.
      3. REVIEW CONCRETE BATCH TICKETS AND VERIFY COMPLIANCE WITH APPROVED MIX DESIGN AND SPECIFICATIONS INCLUDING EXPECTED STRENGTH, CEMENT TYPE, W/C RATIO, AND SLUMP.
      4. TEST CONCRETE COMPRESSIVE STRENGTH (ASTM C31 & C39), SLUMP (ASTM C143), AIR CONTENT (ASTM C231 OR C173) AND TEMPERATURE (ASTM C1064).
      5. REVIEW SIZE, SPACING, COVER, POSITIONING AND GRADE OF REINFORCING STEEL. VERIFY THAT REINFORCING BARS ARE FREE OF FORM OIL OR OTHER DELETERIOUS MATERIALS. REVIEW BAR LAPS AND MECHANICAL SPLICES. VERIFY THAT BARS ARE ADEQUATELY TIED AND SUPPORTED ON CHAIRS OR BOLSTERS.
      6. REVIEW EXCAVATIONS PRIOR TO CONCRETE POUR TO CONIFRM NO LOOSE SOILS OR FOREIGN OBJECTS.
      7. CONTINUOUS INSPECTION OF FOOTINGS WHERE NOTED ON PLANS.
      8. REVIEW PLACEMENT OF CONCRETE. VERIFY THAT CONCRETE CONVEYANCE AND DEPOSITING AVOIDS SEGREGATION OR CONTAMINATION. VERIFY THAT CONCRETE IS PROPERLY CONSOLIDATED.
      9. REVIEW CURING, COLD WEATHER PROTECTION AND HOT WEATHER PROTECTION PROCEDURES.

   A. CONTROLLED STRUCTURAL FILL:
      1. PERFORM SIEVE TESTS (ASTM D422 & D1140) AND MODIFIED PROCTOR TESTS (ASTM D1557) ON EACH SOURCE OF FILL MATERIAL.
      2. INSPECT PLACEMENT, LIFT THICKNESS & COMPACTION OF CONTROLLED FILL.
      3. TEST DENSITY OF EACH LIFT OF FILL BY NUCLEAR METHODS (ASTM D2922).
      4. VERIFY EXTENT AND SLOPE OF FILL PLACEMENT.
   B. STRUCTURAL STEEL:
      1. REVIEW SHOP FABRICATION AND QUALITY CONTROL PROCEDURES.
      2. REVIEW CERTIFIED MILL TEST REPORTS & IDENTIFICATION MARKINGS ON HSS SHAPES.
      3. INSPECT INSTALLATION AND TIGHTENING OF HIGH-STRENGTH BOLTS. VERIFY THAT SPLINES HAVE SEPARATED FROM TENSION CONTROL BOLTS. VERIFY PROPER TIGHTENING SEQUENCE.
      4. INSPECT STEEL FRAME FOR COMPLIANCE WITH STRUCTURAL DRAWINGS, INCLUDING BRACING, MEMBER CONFIGURATIONS AND CONNECTION DETAILS.
      5. INSPECT WELDS IN ACCORDANCE WITH AWS D1.1.
   C. SITE BUILT WOOD CONSTRUCTION:
      1. LUMBER MATERIALS, FASTER PLACEMENT AND SPACING, ROUGH HARDWARE PLACEMENT, MEMBER LAYOUT, JOINT CONNECTIONS, PERMANENT TRUSS BRACING, AND DIMENSIONS SHALL BE VISUALLY VERIFIED PRIOR TO CONCEALING WITH FINISHES.
      2. INSPECT SIZE, CONFIGURATION, BLOCKING AND FASTENING OF SHEARWALLS AND DIAPHRAGMS. VERIFY PANEL GRADE AND THICKNESS.
      3. LUMBER MOISTURE CONTENT SHALL BE VERIFIED AS LESS THAN 16%.
   D. PREFABRICATED WOOD CONSTRUCTION:
      1. INSPECT SHOP FABRICATION AND QUALITY CONTROL PROCEDURES FOR WOOD TRUSS PLANT.
   E. POST-INSTALLED ANCHOR BOLTS:
      1. PERIODIC OR CONTINUOUS INSPECTIONS PER THE REQUIREMENTS OF THE ICC-ES REPORT FOR THE PRODUCT USED.

1. THE INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
2. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR -
   A. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. THE INSPECTOR MAY NOT ALTER, MODIFY, ENLARGE OR WAIVE ANY OF THE REQUIREMENTS OF THE DOCUMENTS.
   B. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE PROFESSIONAL OF RECORD, AND THE CONTRACTOR. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, SUBMIT A COMPLETE LIST OF ALL OUTSTANDING DISCREPANCIES ON A WEEKLY BASIS TO THE OWNER, THE BUILDING OFFICIAL, AND THE PROFESSIONAL OF RECORD UNTIL ALL CORRECTIONS HAVE BEEN COMPLETED.
   C. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.
3. STRUCTURAL OBSERVATION BY THE SEOR IS NOT REQUIRED.
4. WHERE INSPECTION REQUIREMENTS DUPLICATE THE REQUIREMENTS OF SPECIFIED QUALITY ASSURANCE TESTING, DUPLICATE INSPECTIONS SHALL NOT BE REQUIRED.

B2 SPECIAL INSPECTIONS AND TESTING (STICK BUILT)

POWDER ACTUATED FASTENERS (SHOT PINS)

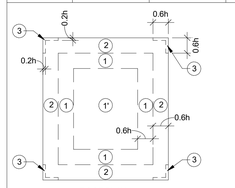
1. THESE NOTES GOVERN ALL CONDITIONS CALLED OUT ON THE PLANS AS "SHOT PINS" UNLESS SPECIFICALLY NOTED OTHERWISE.
2. ALL SHOT PINS SHALL BE AS MANUFACTURED BY HILTI INC. REFERENCE SHALL BE MADE TO THE 'PRODUCT TECHNICAL GUIDE'. FOR ADDITIONAL INFORMATION ICC ESR 2269.
3. SHOT PINS DRIVEN INTO CONCRETE BASE MATERIAL SHALL BE X-U TYPE. LENGTH OF PIN SHALL BE AS REQ'D TO PENETRATE 1" INTO THE CONC BASE MATERIAL. MIN EDGE DISTANCE TO ANY CONC MATERIAL SHALL BE 3" AND MIN FASTENER SPACING SHALL BE 4" MINIMUM CONCRETE THICKNESS=4 1/2".
4. SHOT PINS IN CONCRETE OR STEEL SHALL NOT BE USED FOR SUSTAINED LOADS IN TENSION OR BRACE APPLICATIONS IN SEISMIC DESIGN CATEGORIES D, E, & F PER ASCE 7 SECTION 13.4.5
5. SHOT PINS DRIVEN INTO STEEL BASE MATERIAL SHALL BE X-U TYPE WITH 0.157" SHANK DIAMETER AND 2" FASTENER LENGTH.

A2 SHOT PIN NOTES

COMPONENTS & CLADDING ULTIMATE
EXTERNAL PRESSURE LOADS (PSF)

WL = 107 MPH ULTIMATE[5]

EFFECTIVE WIND AREA (FT²)	IBC 2021: LOCATION PER ASCE 7-16: fig. 30.3-2A			
	1'	1	2	3
<10	9.0 -20.2	9.0 -35.2	9.0 -46.4	9.0 -63.2
20	8.4 -20.2	8.4 -32.8	8.4 -43.4	8.4 -57.3
50	7.7 -20.2	7.7 -29.8	7.7 -39.5	7.7 -49.4
100	7.1 -20.2	7.1 -27.5	7.1 -36.5	7.1 -43.4
250	7.1 -16.5	7.1 -24.4	7.1 -32.5	7.1 -35.5



ROOF PLAN

NOTES:
1. h = 16.14 FT (EAVE), 0.6h = 9.69 FT, 0.2h = 3.23 FT.
2. POSITIVE PRESSURE VALUES REFER TO FORCES ACTING TOWARD BUILDING, NEGATIVE PRESSURE VALUES REFER TO FORCES ACTING AWAY FROM BUILDING.
3. EACH COMPONENT MUST BE DESIGNED FOR MAXIMUM POSITIVE AND NEGATIVE FORCES.
4. FOR COMPONENTS HAVING EFFECTIVE AREAS IN BETWEEN TABULATED VALUES, DESIGN LOADS MAY BE INTERPOLATED. OTHERWISE DESIGN LOAD MUST BE TAKEN FROM THE NEXT LOWEST EFFECTIVE AREA.
5. TO OBTAIN GROSS ASD (WORKING STRESS) LOADS, MULTIPLY TABULATED VALUES BY 0.6.
6. K_z = 0.87
7. FOR PARAPETS AT LEAST 3'-0" HIGH SURROUNDING THE BUILDING PERIMETER WITH ROOF SLOPE NO MORE THAN 7 DEGREES, THE NEGATIVE VALUES OF (GCp) IN ZONE 3 SHALL BE EQUAL TO THOSE IN ZONE 2, AND POSITIVE VALUES OF (GCp) IN ZONES 2 AND 3 SHALL BE SET EQUAL TO THOSE FOR WALL ZONES 4 AND 5, RESPECTIVELY, PER ASCE 7 FIG. 30.3-1.

B1 WIND LOADS

1. BUILDING STRUCTURE HAS BEEN DESIGNED TO 2021 INTERNATIONAL BUILDING CODE.
2. ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE LOCAL BUILDING CODE.
3. VERIFY EXISTING CONDITIONS AND DIMENSIONS AND NOTIFY ARCHITECT OF ANY CONDITIONS WHICH DO NOT COMPLY WITH PLANS AND SPECIFICATIONS. STRUCTURAL DRAWINGS MUST BE COORDINATED WITH ARCHITECTURAL DRAWINGS BY THE CONTRACTOR.
4. CONTRACT DOCUMENTS SHALL NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS.
5. THE STRUCTURE IS UNSTABLE UNTIL ALL LOAD BEARING WALLS ARE ERECTED AND STEEL MEMBERS ARE ERECTED. CONNECTIONS ARE COMPLETELY BOLTED AND/OR WELDED AND INSPECTED, THE PLYWOOD DECK ATTACHED TO THE WOOD FRAMING (ROOF AND SHEAR WALLS), AND THE CONCRETE FLOORS PLACED AND HAVE ATTAINED 75% OF 28-DAY STRENGTH. UNTIL SUCH TIME, TEMPORARY BRACING IS REQUIRED. THE DESIGN ADEQUACY OF TEMPORARY BRACING AND SHORING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
6. FOR LOCATION OF MISCELLANEOUS ITEMS (OPENINGS, BENT PLATES, INSERTS, ETC.) AFFECTING STRUCTURAL WORK, SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
7. BUILDING STRUCTURE AS SHOWN IN THIS SET OF CONTRACT DOCUMENTS HAS BEEN DESIGNED TO BE CONSTRUCTED USING A PANELIZED WALL SYSTEM -OR- CONVENTIONAL "STICK-BUILT" WALL FRAMING.

STRUCTURAL DESIGN LOADS:

LOCAL REQUIREMENTS:
- ROOF DEAD LOAD: 22.3 PSF
- ROOF LIVE LOADS: 20.0 PSF

SNOW LOADS:
- GROUND SNOW LOAD: 30.0 PSF
- FLAT-ROOF SNOW LOAD: 30.0 PSF

WIND LOADS:
- 3 SECOND GUST WIND SPEED (ULTIMATE [MPH]): 107 MPH
- I = 1.0
- EXPOSURE: C
- INTERNAL PRESSURE COEFFICIENT (GCPI): +/-0.18
- COMPONENTS and CLADDING ROOF PRESSURE: SEE B1/S-001

SEISMIC LOADS:
- OCCUPANCY CATEGORY II: II
- S_S = 0.488
- S_1 = 0.154
- S_{DS}= 0.459
- S_{D1}= 0.236
- SITE CLASS = D
- SEISMIC DESIGN CATEGORY = D
- SEISMIC IMPORTANCE FACTOR = 1.0
- RESPONSE MODIFICATION COEFFICIENT, R = 6.5
- SEISMIC RESPONSE COEFFICIENT (CS) = 0.071
- SEISMIC FORCE RESISTING SYSTEM: LIGHT-FRAME WOOD WALLS WITH STRUCTURAL WOOD SHEAR WALLS

GEOTECHNICAL INFORMATION:
- REPORT PROVIDER: TERRACON
- REPORT NUMBER: C4235014
- REPORT DATE: APRIL 27, 2023

A1 DESIGN AND CODE INFORMATION

NOTE:
THIS PROJECT HAS BEEN PRE-APPROVED AND DESIGNED TO BE BUILT USING EITHER PANELIZED OR CONVENTIONAL STICK BUILT METHODS OF CONSTRUCTION. THE DETAILS HEREWITHIN THIS SET OF DRAWINGS ALLOW FOR BOTH METHODS OF CONSTRUCTION, PER MANUF. AND GC DISCRETION

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PROJECT NUMBER:	23-0502
PROJECT ENGINEER:	FDR
PROJECT MANAGER:	RAD
PROJECT DRAFTER:	MJN

MONTANA
THOMAS R. MORRIS
23987PE
REGISTERED PROFESSIONAL ENGINEER
10-23-25

CHICK-FIL-A
CUSTER & WASHINGTON
2770 N WASHINGTON ST HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
PRINTED FOR
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION

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CONSULTANT PROJECT #	LAX22-0129-01
DATE	03/01/2024
DRAWN BY	MJN

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SHEET
STRUCTURAL NOTES

SHEET NUMBER
S-001

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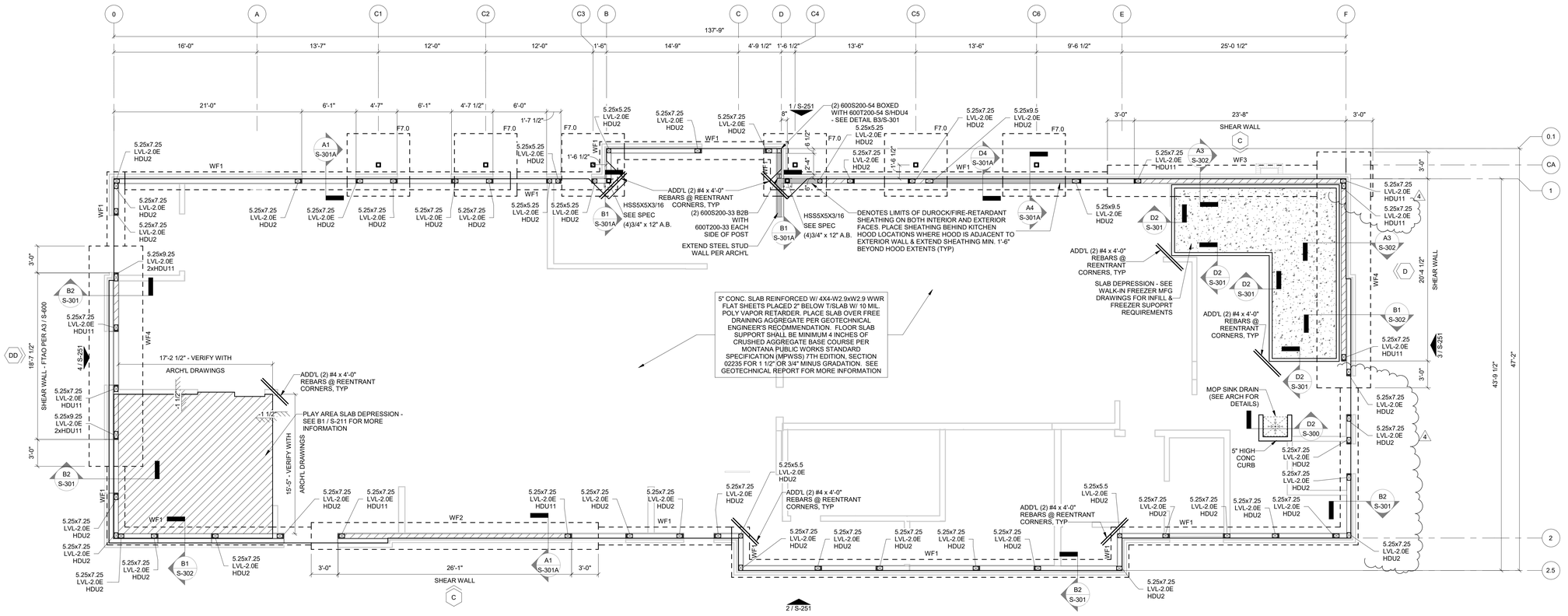
20-LS-05484-S-001-STRUCTURAL NOTES



B1 FOUNDATION PLAN - PLAY
3/16" = 1'-0"

FOOTING SCHEDULE			
MARK	FOOTING SIZE	FOOTING DEPTH	REINFORCEMENT
F7.0	7'-0"x7'-0"	36"	#6@12" OC EACH WAY T&B
FC36	3'-0" DIA	SEE B4/ S-301	SEE B4/ S-301

WALL FOOTING (WF) SCHEDULE				
MARK	W (WIDTH)	T (DEPTH) MIN	RT (TRANSVERSE BARS)	RL (LONGIT BARS)
WF1	2'-0"	1'-0"	#6@12" OC EACH WAY T&B	#6@12" OC EACH WAY T&B
WF3	3'-6"	1'-6"	#6@12" OC EACH WAY T&B	#6@12" OC EACH WAY T&B
WF4	6'-0"	2'-0"	#4 @ 12" OC STIRRUP	#6@12" OC EACH WAY T&B

SHEAR WALL SCHEDULE							
SYMBOL	STRUCTURAL 1 PLYWOOD	FASTENER	MINIMUM PENETRATION OF FASTENER	FASTENER SPACING		MIN WIDTH OF NAILED FACE AT SHEATHING PANEL EDGES	SILL PLATE AND NAILING	REFERENCE DETAIL
				PANEL EDGES	FIELD			
C	1/2" STRUCT 1 APA RATED, EXT GRADE	10d NAIL	1 1/2"	3" O.C. STAGG	12" O.C.	3x	3/4" DIA A.B. AT 18" O.C. MIN EMBED 7" (SEE NOTES #1 AND #5)	B2 / S-301
D	1/2" STRUCT 1 APA RATED, EXT GRADE	10d NAIL	1 1/2"	2" O.C. STAGG	12" O.C.	3x	3/4" DIA A.B. AT 15" O.C. MIN EMBED 7" (SEE NOTES #1 AND #5)	B2 / S-301
DD	1/2" STRUCT 1 APA RATED, EXT GRADE BOTH SIDES	10d NAIL	1 1/2"	3" O.C. STAGG	12" O.C.	3x	3/4" DIA A.B. AT 9" O.C. MIN EMBED 7" (SEE NOTES #1 AND #5)	A3 / S-600 B2 / S-301

NOTES:
1. PROVIDE 0.229"x5"x5" STEEL PLATE WASHERS AT ANCHOR BOLTS. SEE D2/S-302.
2. PROVIDE 3x6 BLOCKING AT ALL 3x6 WALLS AT PLYWOOD SEAMS (BLOCKING TO MATCH FRAMING MEMBER SIZE SHOWN).
3. 3x6 FRAMING REQUIRED WHEN 10d NAILS USED AT 3" O.C. TO PREVENT SPLITTING. (2)-2x6 ARE NOT ACCEPTABLE AT THESE LOCATIONS.
4. WHERE SHEATHING OCCURS ON BOTH SIDES OF SHEAR WALL, PLACE ALL SHEATHING BEFORE THE PLACEMENT OF ANY ROOF FRAMING MEMBERS OR LEDGERS.
5. ANCHOR BOLT EMBEDMENT PER B2/S-301 FOR AT HOLDOWNS OR PER D2/S-302 FOR ALONG WALL.

FOUNDATION LEGEND	
	SHEAR WALL; SEE SHEAR WALL SCHEDULE ON THIS SHEET
X	SHEAR WALL TYPE; A3 / S-201 FOR SHEAR WALL SCHEDULE SYMBOL SHOWN ON SIDE OF WALL TO RECEIVE SHEATHING
5.25X5.5 LVL-2.0E HDU2	POST & SIZE - 5.25X5.5 REFERS TO DIMENSIONAL LUMBER - HSS REFERS TO STEEL COLUMN SIZE MATERIAL TYPE - LVL-2.0E REFERS TO MATERIAL TYPE HOLDOWN TYPE - HDU2 REFERS TO HOLDOWN 2; SEE B2/S-301
WFXX, FXX	FOUNDATION TYPE; SEE SCHEDULE ON THIS SHEET - WFXX REFERS TO WALL FOUNDATION TYPE - FXX REFERS TO PAD FOOTING TYPE

FOUNDATION NOTES:
1. BOTTOM OF EXTERIOR FTG. = MINIMUM 48" BELOW FINISH GRADE ELEV. U.N.O. - SEE DETAILS FOR MORE INFO
2. SEE ARCH. DWG FOR ANY WALL LOCATIONS AND/OR DIMENSIONS NOT SHOWN.
3. SEE DETAIL A1/S-300 FOR SLAB CONTROL JOINTS & B4/S-211 FOR CONTROL JOINT LAYOUT.
4. SEE WALL ELEVATIONS ON S-251 FOR STUD SPACING. WHERE A SHEAR WALL, SHEAR WALL SCHEDULE GOVERNS STUD SPECIFICATIONS.
5. ALL SAW CUT CONTROL JOINTS SHALL BE COMPLETED WITHIN 12 HOURS AFTER FINISHING SLAB WITHOUT DISLODGING AGGREGATE.
6. ALL ANCHORS, CLIPS, STRAPS, ETC. WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD, SUCH AS ACQ, CBA OR SBX SHALL BE SIMPSON ZMAX (G185), STAINLESS STEEL OR AN ENGINEERED APPROVED EQUAL.
7. ALL FASTENERS WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD, SUCH AS ACQ, CBA OR SBX SHALL BE G185 (A HEAVY COATED GALVANIZED) STAINLESS OR AN ENGINEERED APPROVED EQUAL.
8. FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT PER A1/S-001: A GEOTECHNICAL ENGINEER SHALL BE EMPLOYED PRIOR TO THE START OF CONSTRUCTION TO INVESTIGATE SUBSURFACE CONDITIONS. IF THE GEOTECHNICAL REPORT INDICATES THAT THESE ASSUMPTIONS LISTED BELOW ARE INCORRECT PLEASE NOTIFY ENGINEER IMMEDIATELY.
9. INDIVIDUAL FOOTINGS ARE DESIGNED TO BEAR ON UNIFORM SOIL CAPABLE OF SUPPORTNG 3,500 PSF. CONTINUOUS FOOTINGS ARE DESIGNED TO BEAR ON SOIL CAPABLE OF SUPPORTING 3,500 PSF. BEARING STRATUM SHALL BE NATIVE SAND/GRAVEL MATRIX AND, IF NECESSARY, STRUCTURAL FILL REPLACEMENT EXTENDING TO NATIVE SAND/GRAVEL MATRIX (SEE GEOTECHNICAL REPORT FOR MORE INFORMATION). DESIGN ASSUMES DIFFERENTIAL AND TOTAL SETTLEMENT ARE WITHIN ACCEPTED TOLERANCES FOR THE TYPE OF CONSTRUCTION USED. LIGHT POLE FOOTINGS ARE DESIGNED BASED ON A MINIMUM OF 135 PSF/FT ALLOWABLE SOIL PASSIVE PRESSURE. FIELD VERIFY DURING CONSTRUCTION.
10. THE SOIL BEARING CAPACITY AND CONSISTENCY SHALL BE VERIFIED FOR THE BUILDING LIMITS BY A REGISTERED GEOTECHNICAL ENGINEER WHEN FOUNDATION EXCAVATIONS HAVE BEEN CARRIED DOWN TO THE PROPOSED ELEVATIONS.
11. WHERE FOOTING EXCAVATIONS ARE TO REMAIN OPEN AND MAY BE EXPOSED TO RAINFALL, THE EXCAVATIONS SHALL BE UNDERCUT AND A 4 INCH THICK MUD MAT OF 2000 PSI CONCRETE SHALL BE PLACED IN THE BOTTOM TO PROTECT THE BEARING SOILS PER GEOTECHNICAL ENGINEER RECOMMENDATIONS.
12. WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL, UNLESS SHOWN OTHERWISE ON PLANS.
13. AT NON-SHEAR EXTERIOR WALLS, SHEATH & NAIL PER SHEAR WALL TYPE "A".
14. ALL PAD FOOTINGS ARE TO BE CENTERED UNDER POST U.O.N.

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PROJECT NUMBER:	23-0502
PROJECT ENGINEER:	FDR
PROJECT MANAGER:	RAD
PROJECT DRAFTER:	MJN

MONTANA
THOMAS R. MORRIS
No. 23393PE
REGISTERED PROFESSIONAL ENGINEER
10-23-25

CHICK-FIL-A
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2770 N WASHINGTON ST
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FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
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SHEET
FOUNDATION PLAN - PLAY

SHEET NUMBER
S-201

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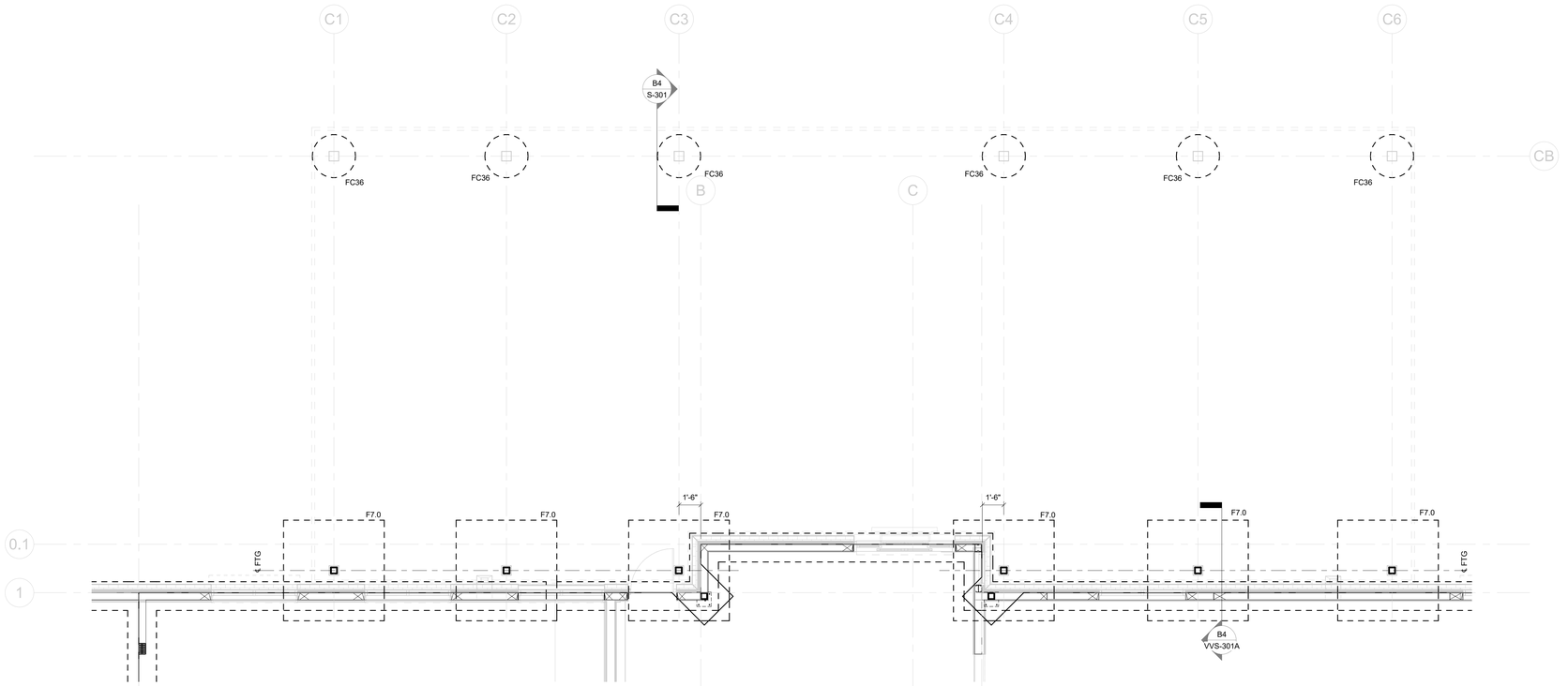

D1 CANOPY FOUNDATION PLAN
1/4" = 1'-0"

FOOTING SCHEDULE			
MARK	FOOTING SIZE	FOOTING DEPTH	REINFORCEMENT
F7.0	7'-0"x7'-0"	36"	#6@12" OC EACH WAY T&B
FC36	3'-0" DIA	SEE B4/ S-301	SEE B4/ S-301

CANOPY DESIGN NOTES:
DESIGN OF THE CANOPY STRUCTURE AND ITS ANCHORAGE TO FOUNDATION IS BY CANOPY MFG.
1. DESIGN OF THE FOUNDATIONS IS BASED UPON THE FOLLOWING NOMINAL CANOPY COLUMN LOADINGS:
   - VERTICAL LOADS:
     - D = 2.25 K DN
     - LR = 4.25 K DN
     - W = 2.75 K UP
   - LATERAL LOADS:
     - W = 0.85 K TRANSVERSE
     - E = 0.9 K EITHER DIRECTION
   - MOMENTS:
     - W = 8.5 K-FT TRANSVERSE (LFRS LATERAL LOAD)
     - E = 3.5 K-FT EITHER DIRECTION (LFRS LATERAL LOAD)
     - D = 9.0 K-FT TRANSVERSE (UNBALANCED VERTICAL LOADING)
     - LR = 20.5 K-FT TRANSVERSE (UNBALANCED VERTICAL LOADING)
     - W = 14.0 K-FT TRANSVERSE (UNBALANCED VERTICAL LOADING)
2. DESIGN OF THE FOUNDATIONS IS BASED UPON A MIN. 10" SQ CANOPY COLUMN BASE PLATE
3. ANY DEVIATIONS FROM THE CRITERIA LISTED ABOVE REQUIRE REVIEW AND APPROVAL BY SEOR

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23393PE
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10-23-25

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SHEET
CANOPY FOUNDATION

SHEET NUMBER
S-202

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20-LS-05484-S-202-CANOPY FOUNDATION

B1 SLAB LAYOUT PLAN
3/16" = 1'-0"

FREEZER SLAB INSTALLATION INSTRUCTIONS:

THESE SAMPLE INSTALLATION INSTRUCTION RECOMMENDATIONS HAVE BEEN PROVIDED TO THE OWNER BY THE FREEZER MFG AND ARE PROVIDED HERE FOR REFERENCE ONLY. FREEZER MFG MAINTAINS ULTIMATE RESPONSIBILITY FOR INSTALLATION PROCEDURE AND FREEZER FLOOR ASSEMBLY FOR THE CONDITIONS OF THIS PROJECT.

REQUIRED ITEMS (PROVIDED & INSTALLED BY CONTRACTOR):
(6) 4' x 8' x 2" SLAB INSULATION
(1) ROLL OF DUCT TAPE
(1) ROLL OF 10 MIL VAPOR RETARDER
(1) LOT OF 2X10 TREATED BOARDS RIPPED DOWN TO FIT 8" RECESS

INSTALL STEPS:
1. CONCRETE INSPECTION & PREPARATION.
   - ENSURE THAT CONCRETE "INSULATION PIT" IS FLAT AND AQUARE, FREE OF MOISTURE, AND CLEAR OF ALL CONSTRUCTION DEBRIS BEFORE INSTALLING (2) LAYERS OF 10 MIL VAPOR RETARDER SHEETS.
   - BROOM SWEEP OR SHOP VACUUM AS NECESSARY.
   - PROVIDE PHOTO OF CLEAN AND DRY PIT.
2. INSTALL (2) LAYERS OF10 MIL VAPOR RETARDER SHEETS, APPLY ONE LAYER PERPENDICULAR TO THE OTHER.
   - VAPOR RETARDER SHEETS TO BE INSTALLED IN BOTTOM OF PIT AND CONTINUE VERTICALLY TO GRADE LEVEL BEHIND PRESSURE TREATED (PT) MEMBERS.
   - PROVIDE MULIPLE PHOTOS OF VAPOR RETARDER ASSEMBLY BEFORE INSTALLING PT MEMBERS.

     NOTE: IT IS EXTREMELY **IMPORTANT** THAT VAPOR RETARDER IS NOT TORN, CUT OR COMPROMISED DURING INSTALLTION. THE GOAL TO MAINTAIN A "NON-PERMEABLE" ASSEMBLY.
3. INSTALL (2) 2X10 PRESSURE TREATED (PT) PERIMETER MEMBERS.
   - PTs SHALL BE CUT TO MATCH HEIGHT OF FINISHED CONCRETE SLAB.
   - PTs MUST BE LEVEL WITHIN 1/8" RISE OVER RUN PER 10FT.

     NOTE: PT'S MUST BE **EVEN** WITH FINISHED CONCRETE.
4. INSTALL TWO 2" THICK FOAMULAR 400 / R-5 PER INCH INSULATED PANELS (4" TOTAL THICKNESS)
   - TAPE ALL BUTT JOINTS.
   - 1ST LAYER OF 2" PANELS, THEN 2ND LAYER OF 2" PANELS TO BE ROTATED 90° TO BOTTOM PANEL. SEE FLOORLESS DETAIL ON COOLER PROVIDER DRAWINGS.
   - TAKE MULTIPLE PHOTOS OF SLAB INSULATION ASSEMBLY.
   - POUR 4" OF CONCRETE AND ALLOW TO CURE. SEE FOUNDATION DETAILS FOR SLAB REINFORCING.
   - ADD TILE AND GROUT PER ARCH. DWGS.

SLAB GENERAL NOTES:
1. REFER TO S300 & S301 FOR STRUCTURAL CONCRETE REINFORCING AND DETAILING INFORMATION.
2. SEE PLUMBING PLANS FOR FLOOR DRAIN TYPES, LOCATIONS, AND T.O. DRAIN ELEVATIONS.
3. SPRAY BUILDING WITH TERMITE TREATMENT PRIOR TO THE INSTALLMENT OF VAPOR RETARDER
4. PROVIDE BLOCK OUTS @ STEEL COLUMNS TYP
5. CONSTRUCTION JOINTS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY. G.C. TO MAINTAIN A MAXIMUM 12'-6" DIMENSION AND MAXIMUM 1.5:1 ASPECT RATIO.

SLAB LEGEND	
	PLUMBING FLOOR DRAINS (FOR REFERENCE ONLY); SEE PLUMBING DRAWING FOR EXACT LOCATIONS.
	CLEANOUT; SEE ARCH DRAWINGS FOR PLACEMENTS
	ICE MACHINE SLAB DEPRESSION (TRENCH DRAIN); SEE PLUMBING DRAWINGS
X'-X"	SLAB DEPRESSION; SEE FOUNDATION PLAN FOR ADDITIONAL INFO.
	CONSTRUCTION JOINT

TERMITE TREATMENT NOTES:
NATIONAL ACCOUNT TO PRE-TREAT SLABS: RENTOKIL
ACCOUNT CONTACT:
EMAIL: CFA@RENTOKIL.COM
PHONE: (877) 764-0007

PROCEDURE:
1. GENERAL CONTRACTOR SHALL CONTACT ACCOUNT REPRESENTATIVE 48-72 HOURS BEFORE THE SLAB IS TO BE PLACED.
2. PROVIDE THE LOCATION NUMBER, FULL PROJECT ADDRESS, CFA STORE NUMBER, SQUARE FOOTAGE OF AREA TO BE TREATED, CONTACT INFO AND BILLING ADDRESS OF THE GENERAL CONTRACTOR.
3. AFTER TREATMENT, RENTOKIL WILL CREATE A REPORT OF SERVICE UNDER THE LOCAL STATE GUIDELINES AND WILL PROVIDE THAT TO THE GENERAL CONTRACTOR THAT SHOULD THEN PROVIDE THE REPORT TO CFA.

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PROJECT MANAGER:	RAD
PROJECT DRAFTER:	MJN

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THOMAS R. MORRIS
No. 42398PE
REGISTERED PROFESSIONAL ENGINEER
10-23-25

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SHEET
SLAB LAYOUT PLAN - PLAY

SHEET NUMBER
S-211

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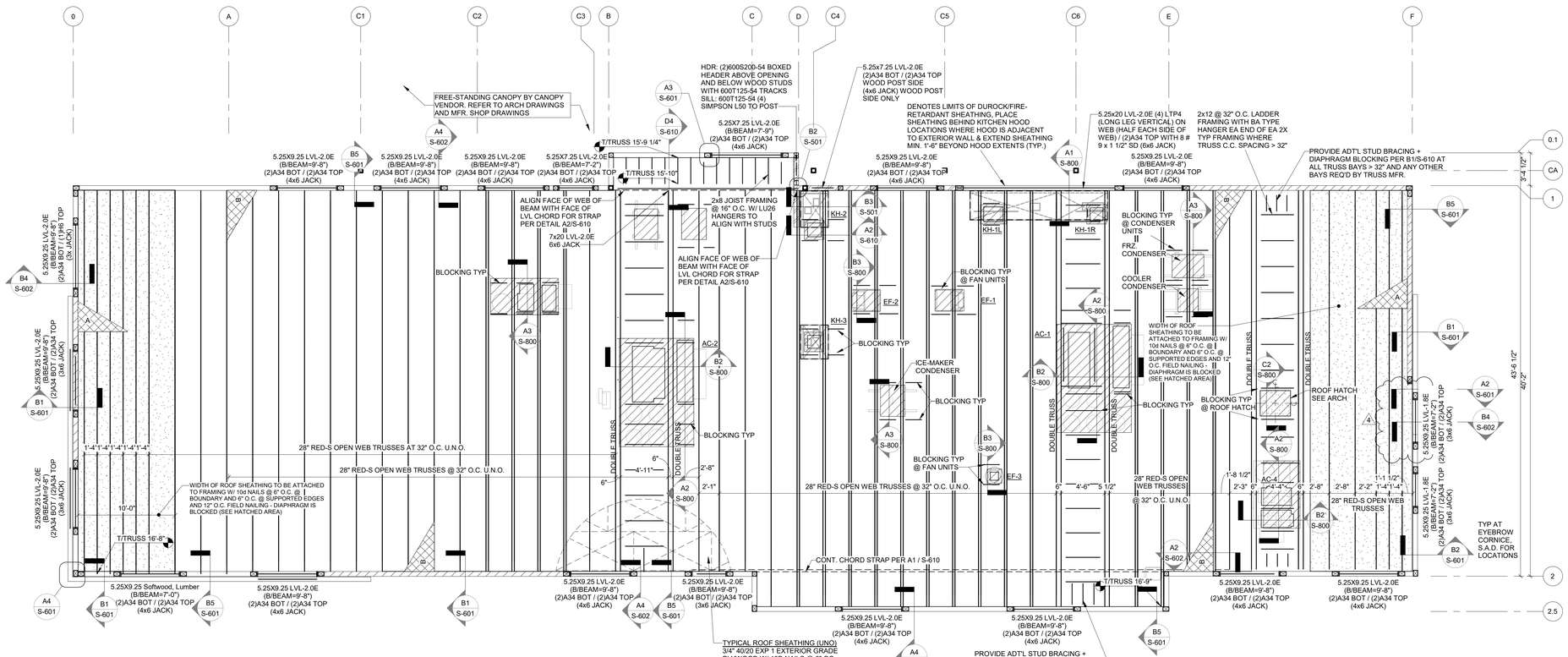
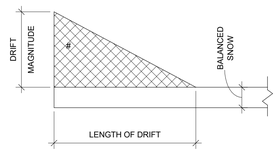
20-LS-05484-S-211-SLAB LAYOUT PLAN - PLAY



C1 ROOF FRAMING PLAN
3/16" = 1'-0"

SNOW DRIFT INFORMATION: 30 PSF BALANCED ROOF SNOW LOAD		
SNOW DRIFT	DRIFT MAGNITUDE	LENGTH OF DRIFT
A	50 PSF	11'-5"
B	28.5 PSF	6'-6"



ROOF DESIGN CRITERIA			
DEAD LOADS:		LIVE LOADS:	= 20 PSF TC
ROOFING	= 3.0 PSF TC	WIND LOADS:	= SEE C/S-001 FOR COMPONENTS AND CLADDING DIAGRAM
PLYWOOD	= 2.3 PSF TC		
TRUSSES	= 3.5 PSF TC	EQUIPMENT LOAD NOT INCLUDED	
CEILING	= 2.0 PSF BC	ADD 150# PER HANGER LOCATION OF HUNG KITCHEN SHELVING WHERE OCCURS	
INSULATION	= 1.5 PSF TC	ROOFING WEIGHT INCLUDES (1) LAYER RE-ROOFING	
MISC.	= 1.0 PSF BC	"TC" DENOTES LOAD IS APPLIED TO TRUSS TOP CHORD	
MEPF	= 3.0 PSF BC	"BC" DENOTES LOAD IS APPLIED TO TRUSS BOTTOM CHORD	
DEAD LOAD	= 16.3 PSF		

*ADD 6 PSF DL BC AT DINING ROOM FOR SUSPENDED SOFFIT = 22.3 PSF (AT DINING ROOM)

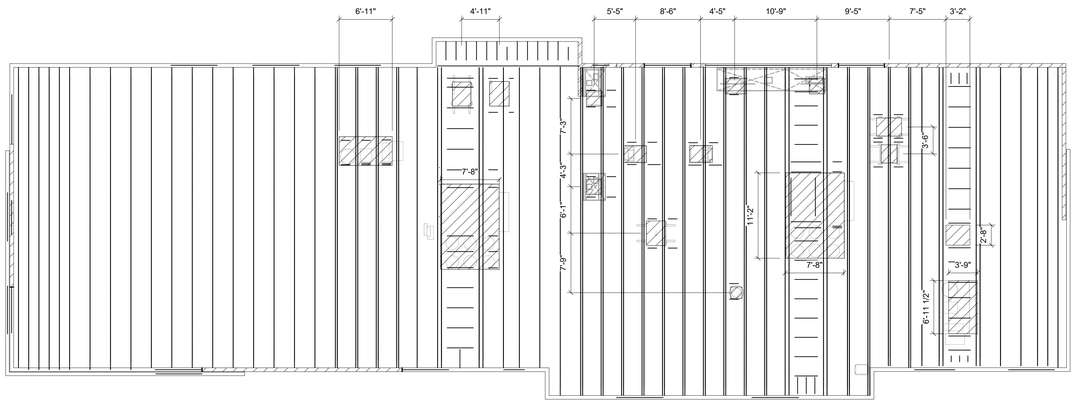
** AC UNITS, EXHAUST FANS, AND CONDENSERS WEIGHTS HAVE BEEN INCREASED BY A FACTOR OF 1.2. NOTIFY E.O.R. IF WEIGHTS ARE EXCEEDED BEFORE APPLYING 1.2 FACTOR

MECHANICAL SCHEDULE						
RTU DESIGNATION	WEIGHT (LBS)	HOOD DESIGNATION	WEIGHT (LBS)	EXHAUST DESIGNATION	WEIGHT (LBS)	
AC-1	2,991	KH-1L	663	EF-1	503	
AC-2	2,689	KH-1R	462	EF-2	510	
AC-3	2,689	KH-2	262	EF-3	56	
AC-4	841	KH-3	150	CONDENSER	340	

NOTES:
1. VERIFY ALL WEIGHTS, LOCATIONS, CURBS, AND OPENINGS WITH MEP AND MFR.
2. SEE DETAILS FOR SIZES OF BLOCKING REQ'D.

HEADER SCHEDULE						
TYPE MARK	OPENING WIDTH		HEADER SIZE	JACK STUDS	KING STUDS	COMMENTS
	MIN.	MAX.				
H1	0'-8"	4'-6"	(3) 2x6	(1) 2x	(3) 2x	SEE NOTE #2
H2	>4'-6"	7'-2"	(3) 2X12	(2) 2x	(4) 2x	SEE NOTE #2
H3	>7'-2"	12'-0"	5.25"x16" LVL-1.8E	(2) 2x *	SEE PLAN	SEE NOTE #3, #4
H4	>12'-0"	20'-0"	5.25"x24" LVL-1.8E	(2) 2x	SEE PLAN	SEE NOTE #3
H5	0'-8"	3'-0"	(2) 600S200-54 BOXED W/ 600T150-54 TOP & BOT	SEE PLAN	SEE PLAN	SEE NOTE #5

NOTES:
1. SEE FRAMING NOTES FOR INSTALLATION REQUIREMENTS.
2. ATTACH TO JAMB WITH (2)A34 BOT AND (1) A34 TOP
3. ATTACH TO 2x JAMB WITH (2)A34 BOT AND (1) A34 TOP
4. * DENOTES NO JACK STUD AT HSS POST LOCATION.
5. ATTACH WITH (4) SIMPSON L50 TO POST. SILL SHALL BE (1) 600T125-43 TRACK.



A4 MECHANICAL EQUIPMENT LOCATION PLAN
1/8" = 1'-0"

ROOF FRAMING NOTES:
(•XX'-X") INDICATES TOP OF JOIST OR TRUSS ELEVATION.
1. SEE DETAIL D1/S-610 FOR ROOF NAILING.
2. SEE DETAIL C1/S-800 FOR TYP. HANGER DETAILS.
3. TRUSS AND JOIST MANUFACTURER SHALL DESIGN AND PROVIDE ALL JOISTS AND ERECTION, PERMANENT, AND UPLIFT BRIDGING.
4. SPLICE CHORDS PER DETAIL C1/S-600.
5. OPEN WEB TRUSSES AND CENTRAL GIRDER SHALL BE BY REDBUILT, LLC 740-513-4547 - CONTACT: JAKE SHEPHERD. OPEN WEB TRUSSES SHALL BE MANUFACTURED IN ACCORDANCE WITH ICC ESR-1774.
6. DIMENSIONS THIS SHEET ARE TO OUTSIDE FACE OF WOOD STUD.
7. ROOF TOP UNIT DIMENSIONS ARE TO INSIDE FACE OF CURB/INSIDE FACE OF WOOD STUD.
8. FOR ADDITIONAL NAILING REQUIREMENTS SEE SCHEDULE ON A4/S-600.
9. ALL ANCHORS, CLIPS, STRAPS, ETC. WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD, SUCH AS ACQ, CBA OR SBX, AND ARE LESS THAN 3/8" THICK, SHALL BE SIMPSON ZMAX (G185), STAINLESS STEEL OR AN ENGINEERED APPROVED EQUAL.
10. ALL FASTENERS WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD, SUCH ASACQ, CBA OR SBX, AND ARE LESS THAN 3/8" DIAMETER, SHALL BE G185 (A HEAVY COATED GALVANIZED) STAINLESS OR AN ENGINEERED APPROVED EQUAL.
11. ALL DIMENSIONS TO ROOF TOP UNITS ARE APPROXIMATE. THE UNITS AND CURBS MUST BE LOCATED TO ALLOW PENETRATIONS TO AVOID CONFLICTS WITH FRAMING MEMBERS.
12. SIMPSON CONNECTORS APPLIED TO STEEL COLUMNS SHALL BE SHOP WELDED.
13. ALL WELDS SHALL BE SHOP WELDS WHERE POSSIBLE. FIELD WELDS ARE SUBJECT TO SPECIAL INSPECTIONS.
14. SEE S-001 FOR COMPONENTS AND CLADDING WIND LOADS FOR ROOF DESIGN.
15. AT ALL ROOF DUCTWORK PENETRATIONS, PROVIDE 4" MINIMUM ROOF DECK OPENING AROUND DUCT DROPS TO ACCOMMODATE INSULATION.
16. TRUSS MFR: WHERE INDICATED, DESIGN TOP CHORD OF THE TRUSS FOR ADDITIONAL TENSION/COMPRESSION LOAD = 3.5 KIPS (MAXIMUM EQ OR WIND LOAD IN ASD).
19. ALL IN-WALL POST TOP ELEVATIONS ARE AT BOTTOM OF PARAPET TOP PLATE U.O.N.
20. REFER TO ARCHITECTURAL DWGS FOR ALL DIMENSIONS NOT LISTED HERE.
21. SEE SHEET S-251 FOR WALL FRAMING SPECIFICATIONS
22. STRUCTURAL CLIPS NOTED ON PLANS ARE REQUIRED AT EA. END OF BEAM. EX. (1) A34 TOP / (2) A35 BOT WOULD REQUIRE A TOTAL OF (2) A34 ON TOP AND (4) A35 ON BOT.

GENERAL NOTE:
1. WALL AND PARAPET FRAMING MAY BE PANELIZED. REFER TO SHOP DRAWINGS FOR CONSTRUCTION DETIALS AND SPECIFICATIONS.
2. COORDINATE WITH ARCHITECTURAL, PLUMBING, AND ELECTRICAL DRAWINGS TO AVOID CONFLICTS IN WALL IF ADDITIONAL STRUCTURE MUST BE ADDED FOR PANELIZATION.

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SHEET
ROOF FRAMING PLAN - PLAY

SHEET NUMBER
S-231

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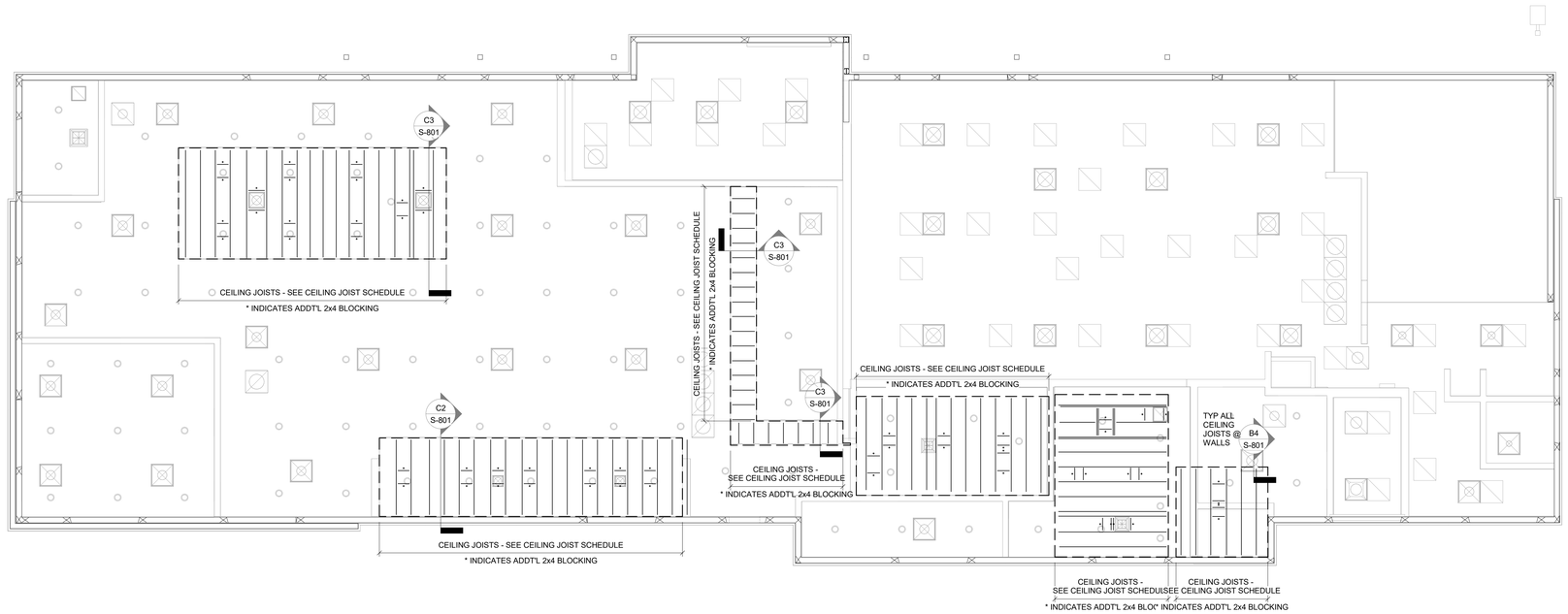
20-LS-05484-S-231-ROOF FRAMING PLAN - PLAY



B1 DROPPED CEILING PLAN

3/16" = 1'-0"

WOOD CEILING JOIST SCHEDULE

JOIST SPAN, X [FT]		JOIST SIZE	SPACING [IN O.C.]	BLOCKING LOCATION	SIMPSON HANGER REQ.
≤ X	X <				
0	8-1/2	2x6	16	N/A	LU26/LUS26
8-1/2	10-1/2	2x6	16	MID SPAN	LU26/LUS26
10-1/2	13	2x8	16	MID SPAN	LU26/LUS26
13	14-1/4	2x8	16	THIRD SPAN	LU26/LUS26
14-1/4	15	2x10	16	MID SPAN	LU28/LUS28
15	16-3/4	2x10	16	THIRD SPAN	LU28/LUS28

NOTES:
1. SEE B4 / S-801 FOR TYPICAL CEILING JOIST TO WALL/HEADER CONNECTION
2. CEILING JOIST DESIGNED AS DFL#2. MAY BE SUBSTITUTED FOR LUMBER W/ S.G.= 0.5 OR GREATER

LGS CEILING JOIST SCHEDULE [1]

JOIST SPAN, X [FT]		JOIST SIZE	SPACING [IN O.C.]	BRIDGING [2] LOCATION	WEB STIFFENER.
≤ X	X <				
0	15	600S162-33	16	MID SPAN	N/A
15	17	600S162-43	16	MID SPAN	N/A
17	19.5	600S162-43	16	THIRD SPAN	N/A
19.5	20.5	600S162-54	16	THIRD SPAN	N/A

NOTES:
1. FOR TYPICAL CEILING JOIST TO WALL/HEADER CONNECTION SEE DETAIL A4 / S-801. CEILING JOIST DESIGNED AS FY = 50KSI. MAY BE SUBSTITUTED FOR FY = 33 KSI. NOTIFY EOR FOR REVISED MIN AND MAX SPANS.
2. FOR JOIST FRAMING BRIDGING SEE DETAIL C4 / S-801.
3. WHERE ADDITIONAL JOIST BLOCKS ARE REQUIRED, FASTEN BLOCKS TO ADJACENT JOISTS PER DETAIL C4 / S-801.

LEGEND:	
- - - -	INDICATES DROPPED CEILING AND RIM JOISTS - SEE ARCH FOR CEILING EXTENTS
◎	INDICATES LIGHT FIXTURE - SEE ARCH
⊠	INDICATES SUPPLY DIFFUSER - SEE MECH COORDINATE WITH MECH SUPPLIER FOR FRAME CLEARANCE
⊘	INDICATES RETURN/EXHAUST GRILLE - SEE MECH COORDINATE WITH MECH SUPPLIER FOR FRAME CLEARANCE

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PROJECT NUMBER:	23-0502
PROJECT ENGINEER:	FDR
PROJECT MANAGER:	RAD
PROJECT DRAFTER:	MJN

MONTANA
THOMAS R. MORRIS
23393PE
REGISTERED
PROFESSIONAL ENGINEER
10-23-25

CHICK-FIL-A
CUSTER & WASHINGTON

2770 N WASHINGTON ST
HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
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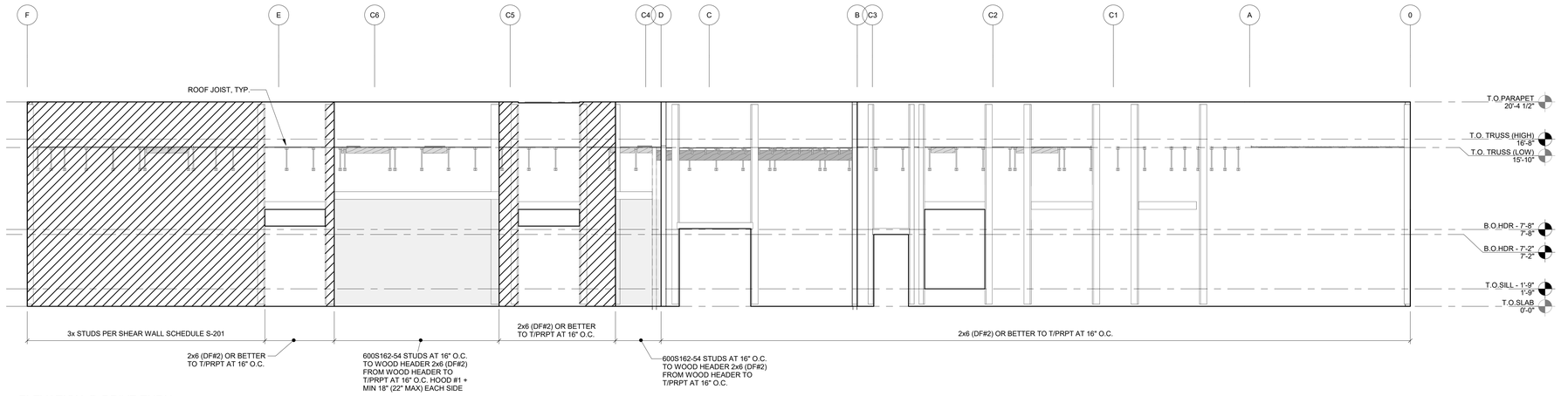
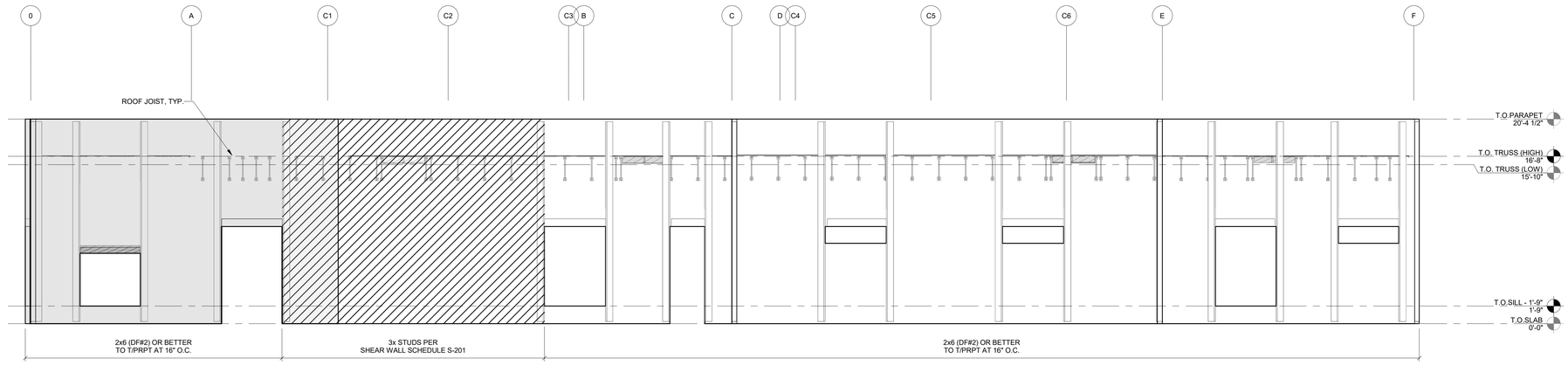
SHEET
DROPPED CEILING PLAN - PLAY

SHEET NUMBER
S-241

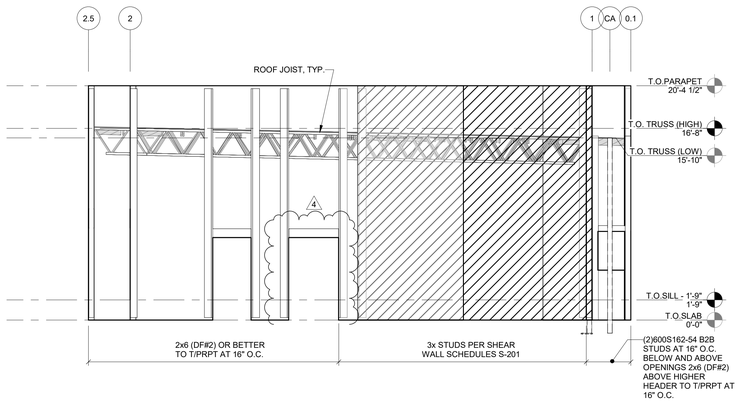
10/23/2025 11:49:20 AM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_STR.rvt
20-LS-05484-S-241-DROPPED CEILING PLAN - PLAY



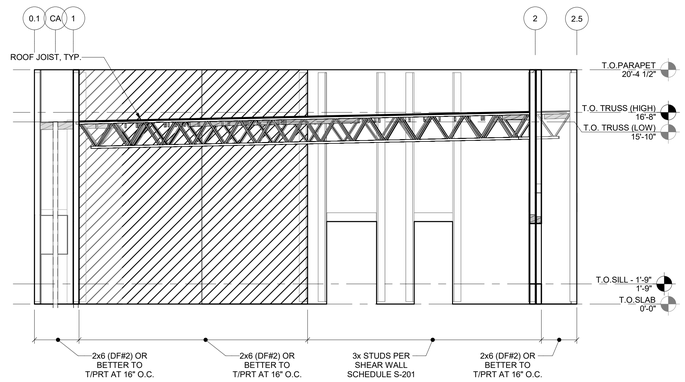
1 ELEVATION @ DRIVE THRU
3/16" = 1'-0"



2 ELEVATION @ SIDE
3/16" = 1'-0"



3 ELEVATION @ REAR
3/16" = 1'-0"



4 ELEVATION @ FRONT
3/16" = 1'-0"

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SHEET
STRUCTURAL ELEVATIONS - PLAY

SHEET NUMBER
S-251

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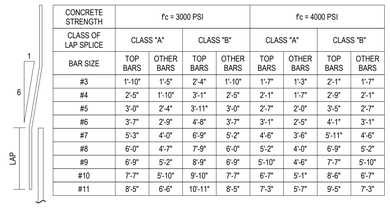
20-LS-05484-S-251-STRUCTURAL ELEVATIONS - PLAY

BAR SIZE	MAIN REINFORCEMENT 90° HOOK LENGTH "L"	MAIN REINFORCEMENT INSIDE DIA. "D1"	MAIN REINFORCEMENT 180° HOOK LENGTH "L"	STIRRUPS & TIES 90° HOOK LENGTH "L"	STIRRUPS & TIES INSIDE DIA. "D2"	STIRRUPS & TIES 135° HOOK LENGTH "L"
#3	4 1/2"	2 1/4"	2 1/2"	3"	1 1/2"	3"
#4	6"	3"	2 1/2"	3"	2"	3"
#5	7 1/2"	3 3/4"	2 1/2"	3 3/4"	2 1/2"	3 3/4"
#6	9"	4 1/2"	3"	9"	4 1/2"	4 1/2"
#7	10 1/2"	5 1/4"	3 1/2"	10 1/2"	5 1/4"	5 1/4"
#8	1'-0"	6"	4"	1'-0"	6"	6"
#9	1'-1 1/2"	9 1/2"	4 1/2"	-	-	-
#10	1'-3 1/4"	10 3/4"	5 1/4"	-	-	-
#11	1'-5"	1'-0"	5 3/4"	-	-	-

NOTE: STIRRUPS & TIES REQUIRE A 135 DEGREE HOOK FOR SDC C, D & E;

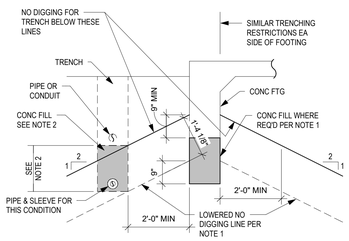
D4 REBAR STANDARD HOOKS & BENDS
N.T.S.



CONCRETE STRENGTH	fc = 3000 PSI				fc = 4000 PSI			
CLASS OF LAP SPLICE	CLASS "A"		CLASS "B"		CLASS "A"		CLASS "B"	
BAR SIZE	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3	1'-10"	1'-5"	2'-4"	1'-10"	1'-7"	1'-3"	2'-1"	1'-7"
#4	2'-5"	1'-10"	3'-1"	2'-5"	2'-1"	1'-7"	2'-9"	2'-1"
#5	3'-0"	2'-4"	3'-11"	3'-0"	2'-7"	2'-0"	3'-5"	2'-7"
#6	3'-7"	2'-9"	4'-8"	3'-7"	3'-1"	2'-5"	4'-1"	3'-1"
#7	5'-3"	4'-0"	6'-9"	5'-2"	4'-6"	3'-6"	5'-11"	4'-6"
#8	6'-0"	4'-7"	7'-9"	6'-0"	5'-2"	4'-0"	6'-9"	5'-2"
#9	6'-9"	5'-2"	8'-9"	6'-9"	5'-10"	4'-6"	7'-7"	5'-10"
#10	7'-7"	5'-10"	9'-10"	7'-7"	6'-7"	5'-1"	8'-6"	6'-7"
#11	8'-5"	6'-6"	10'-11"	8'-5"	7'-3"	5'-7"	9'-5"	7'-3"

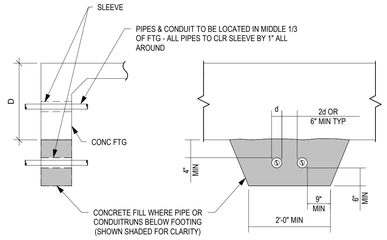
NOTES:
1. UNLESS INDICATED OTHERWISE, USE CLASS "B" LAP SPLICE LENGTHS, MULTIPLIED BY THE APPLICABLE FACTORS(S) LISTED BELOW.
2. WHERE THE CLEAR SPACING OF BARS BEING SPLICED IS LESS THAN 2 BAR DIAMETERS, INCREASE THE LAP LENGTH BY 50%.
3. WHERE THE BAR COVER IS LESS THAN OR EQUAL TO THE BAR DIAMETER, INCREASE THE LAP LENGTH BY 50%.
4. A CLASS "A" SPLICE MAY BE USED ONLY WHERE NOTED ON THE DRAWINGS. WHERE DEVELOPMENT LENGTH (Ld) IS REQUIRED OR CALLED OUT ON THE DRAWINGS, USE CLASS "A" LAP SPLICE LENGTH.
5. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
6. LAP SPLICE LENGTHS IN TABLE ARE FOR NORMAL WEIGHT CONCRETE. WHERE LIGHTWEIGHT AGGREGATE CONCRETE IS USED, INCREASE LAP SPLICE LENGTH BY 30%
7. SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS SHALL BE STAGGERED.
8. SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS CONTAINING TWO CURTAINS OF REINFORCEMENT SHALL NOT OCCUR IN THE SAME LOCATION.

C4 REBAR OFFSET & LAP SPLICE REQUIREMENTS
1" = 1'-0"



PARALLEL TO FTG

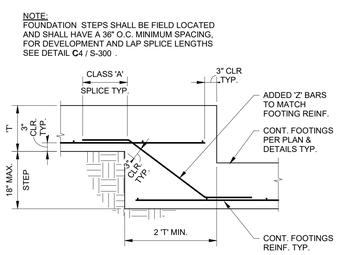
NOTES:
1. WHERE TRENCH OCCURS BELOW "NO DIGGING LINE" (SHOWN AS HEAVY DASHED LINE), LOWER BOTTOM OF FTG WITH CONC FILL TO LOWER NO DIGGING LINE AS REQ'D (SHOWN AS LT DASHED LINE).
2. IN LIEU OF LOWERING BOT. OF FTG WHERE TRENCH OCCURS BELOW NO DIGGING LINE, FILL PORTION OF TRENCH BELOW NO DIGGING LINE W/ CONC FILL PRIOR TO EXCAVATING FTG. PROVIDE SLEEVE W/ 1" CLR AROUND PIPE ENCASED IN CONC.
3. SEE PIPES PERPENDICULAR TO FOOTING FOR ADDITIONAL NOTES.



PERPENDICULAR TO FTG

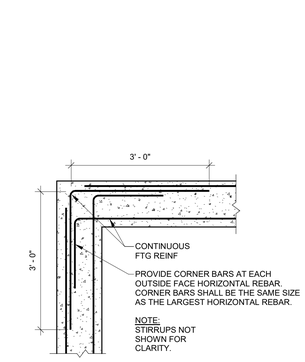
NOTES:
1. CONCRETE FILL SHALL HAVE f'c @ 28 DAYS > 1500 PSI.
2. CONCRETE FILL TO BE SAME WIDTH AS FTG AND FULL WIDTH OF PIPE TRENCH. STEP FTG IF PIPE IS MORE THAN 2'-6" BELOW BOT. OF FTG.
3. NO PIPE SHALL BE PLACED BELOW SPREAD FTGS. - TYP.
4. IF PIPE IS IN PLACE PRIOR TO CASTING CONCRETE, WRAP PIPE W/ 1" THICK GLASS WOOL INSULATION IN LIEU OF SLEEVE.
5. PROVIDE 6" CLR MINIMUM, BETWEEN PIPES OR CONDUIT & REINFORCING.
6. NO PIPES UNDER PRESSURE ALLOWED WITHIN FTG IN LONGITUDINAL DIRECTION.
7. CONDUITS WITHIN FTG SHALL BE LOCATED SUCH THAT VERTICAL RISERS DO NOT CROSS ADJACENT HORIZONTAL CONDUIT. MINIMUM COVER SHALL BE 1 1/2" AND 2d MINIMUM SEPARATION.

B4 UNDERGROUND UTILITIES AT FOUNDATIONS
1/2" = 1'-0"

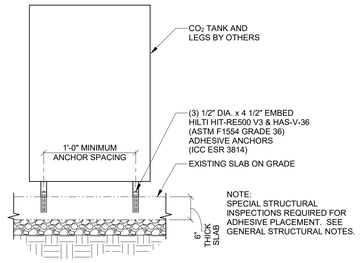


A4 TYP. STEPPED FOOTING DETAIL
3/4" = 1'-0"

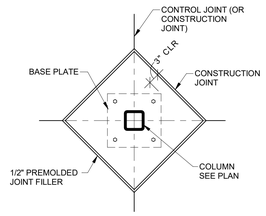
C3 TYP. CONTINUITY CORNER
3/4" = 1'-0"



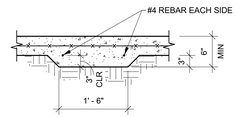
A3 CO2 TANK ANCHORAGE
N.T.S.



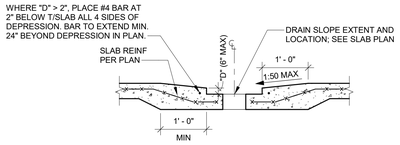
C2 COLUMN ISOLATION JOINTS
N.T.S.



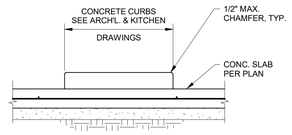
A2 THICKENED SLAB @ CO2 TANK
N.T.S.



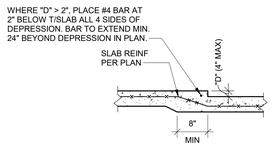
B3 SECTION @ ICE MACHINE SLAB DEPRESSION
3/4" = 1'-0"



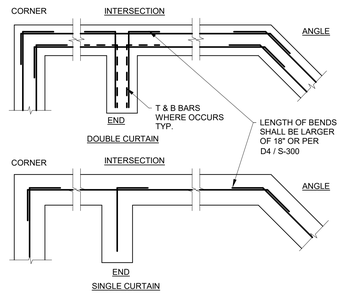
B2 CONC. CURB DETAIL
N.T.S.



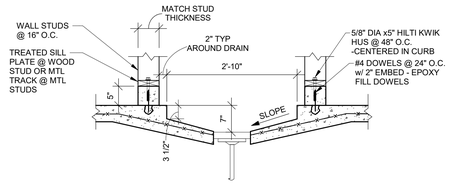
B1 SECTION @ DEPRESSED SLAB
N.T.S.



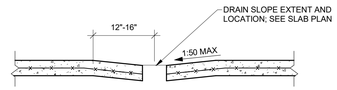
D3 TYP. REINF LAYOUT DETAIL
3/4" = 1'-0"



D2 MOP SINK SECTION
3/4" = 1'-0"

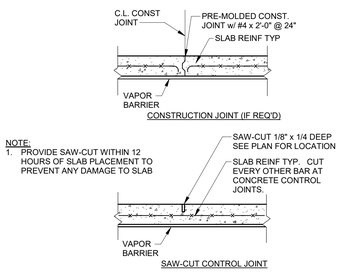


D1 DRAIN DETAIL
3/4" = 1'-0"



C1 THICKENED SLAB @ TABLE
N.T.S.

A1 SLAB ON GRADE JOINTS
3/4" = 1'-0"



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SHEET
TYPICAL CONCRETE DETAILS

SHEET NUMBER
S-300

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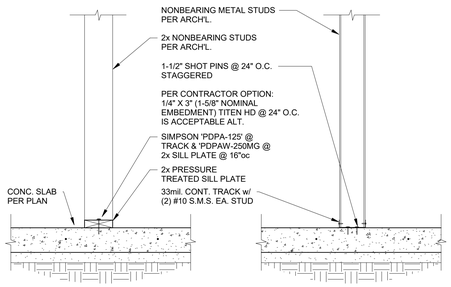
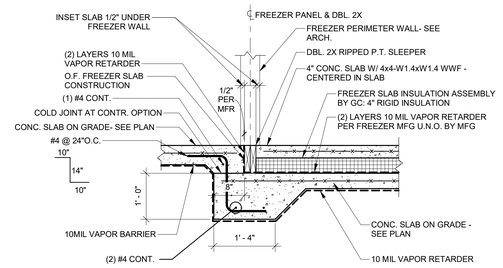
20-LS-05484-S-300-TYPICAL CONCRETE DETAILS



NOTE: SLAB REINFORECEMENT NOT SHOWN FOR CLARITY

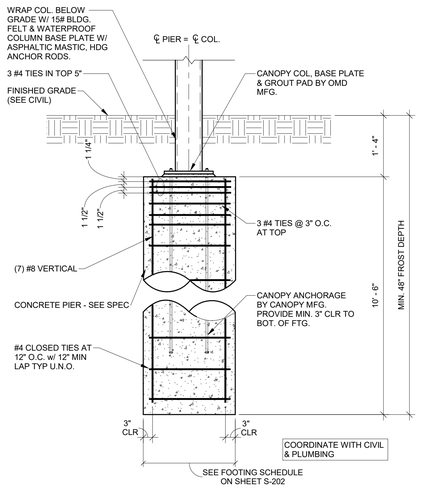
D3 TYP. NONBEARING PARTITIONS
1" = 1'-0"



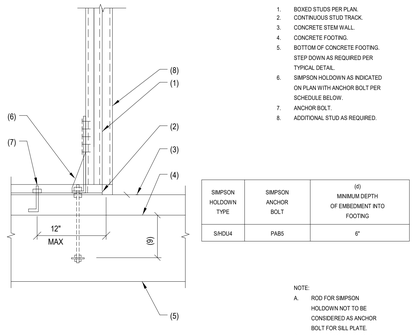
NOTE:
A. SEE SLAB PLAN FOR FREEZER SLAB INSTALLATION INSTRUCTIONS.
B. (2) 10 MIL POLY LAYERS. ONE PIECE SHEETS, NO SPLICES, NO EXCEPTIONS.

D2 FREEZER DEPRESSION DETAIL @ INT.
3/4" = 1'-0"

DESIGN NOTE 2023-024 - REV 1



B4 ISOLATED CANOPY FOOTING
3/4" = 1'-0"

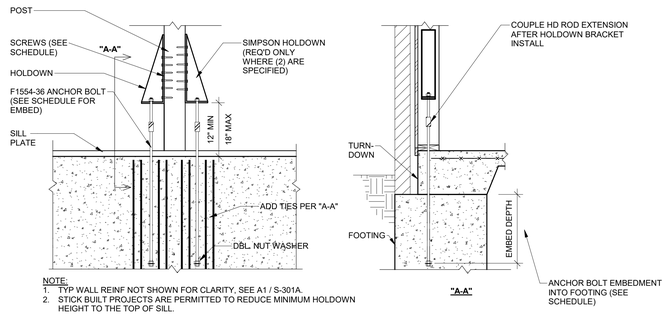


NOTES:
1. BOXED STUDS PER PLAN.
2. CONTINUOUS STUD TRACK.
3. CONCRETE STEM WALL.
4. CONCRETE FOOTING.
5. BOTTOM OF CONCRETE FOOTING. STEP DOWN AS REQUIRED PER TYPICAL DETAIL.
6. SIMPSON HOLDOWN AS INDICATED ON PLAN WITH ANCHOR BOLT PER SCHEDULE BELOW.
7. ANCHOR BOLT.
8. ADDITIONAL STUD AS REQUIRED.

SIMPSON HOLDOWN TYPE	SIMPSON ANCHOR BOLT	(6) MINIMUM DEPTH OF EMBEDMENT INTO FOOTING
SHDU4	PABS	6"

NOTE:
A. ROD FOR SIMPSON HOLDOWN NOT TO BE CONSIDERED AS ANCHOR BOLT FOR SILL PLATE.
B. SHEATHING NOT SHOWN FOR CLARITY.

B3 SIMPSON HOLDOWN INTO CONCRETE FOOTING
N.T.S.



NOTE:
1. TYP WALL REINF NOT SHOWN FOR CLARITY, SEE A1 / S-301A.
2. STICK BUILT PROJECTS ARE PERMITTED TO REDUCE MINIMUM HOLDOWN HEIGHT TO THE TOP OF SILL.

SIMPSON HOLDOWN	STUD SCREWS	MIN POST DEPTH	ANCHOR BOLT (F1554-36)
HDU2-SDS2.5	(6) SDS 1/4" x 2-1/2"	3 1/2"	5/8" DIA x 0'-6" EMBED INTO FOOTING W / DOUBLE NUT WASHER
HDU11-SDS2.5	(30) SDS 1/4" x 2-1/2"	5 1/4"	PAB8 1" DIA x 1'-0" EMBED INTO FOOTING W / DOUBLE NUT WASHER
HDU14-SDS2.5	(36) SDS 1/4" x 2-1/2"	5 1/4"	PAB8 1" DIA x 1'-0" EMBED INTO FOOTING W / DOUBLE NUT WASHER
2x HDU11 SDS2.5	2x (30) SDS 1/4" x 2-1/2"	7 1/4"	2x PAB8 1" DIA x 1'-0" EMBED INTO FOOTING W / DOUBLE NUT WASHER

B2 HOLDDOWN DETAIL @ SHEAR WALLS & POSTS
3/4" = 1'-0"

Chick-fil-A
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PROJECT NUMBER:	23-0502
PROJECT ENGINEER:	FDR
PROJECT MANAGER:	RAD
PROJECT DRAFTER:	MJN

MONTANA
THOMAS R. MORRIS
No. 23393PE
REGISTERED PROFESSIONAL ENGINEER
10-23-25

CHICK-FIL-A
CUSTER & WASHINGTON

2770 N WASHINGTON ST
HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
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CONSULTANT PROJECT #	LAX22-0129-01
DATE	03/01/2024
DRAWN BY	MJN

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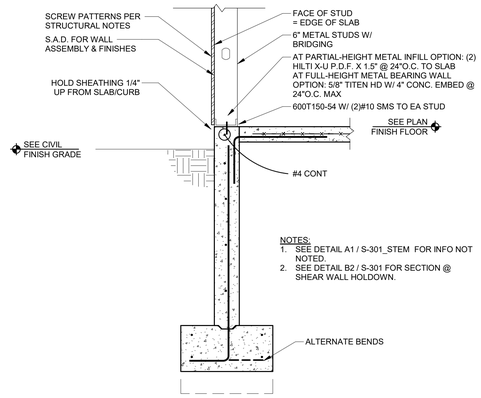
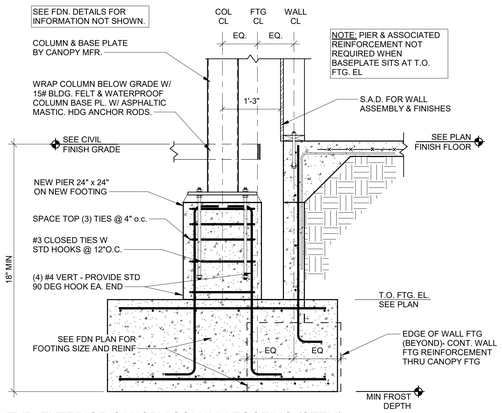
SHEET
FOUNDATION DETAILS

SHEET NUMBER
S-301

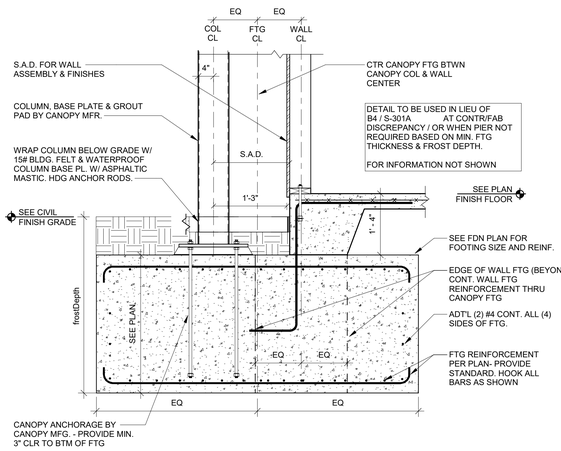
10/23/2025 11:49:29 AM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR05484_Custer & Washington FSU_STR.rvt
20-LS-05484-S-301-FOUNDATION DETAILS



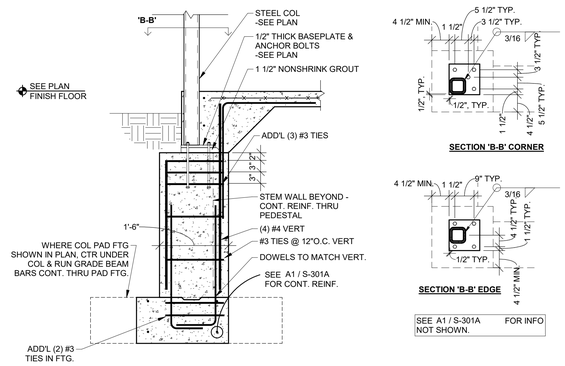
D4 TYP. SECTION @ EXT MTL STUD WALL (STEM)
3/4" = 1'-0"



B4 TYP. EXTERIOR CANOPY COLUMN FOOTING (STEM)
3/4" = 1'-0"



A4 ALT. EXTERIOR CANOPY COLUMN FOOTING (STEM)
3/4" = 1'-0"

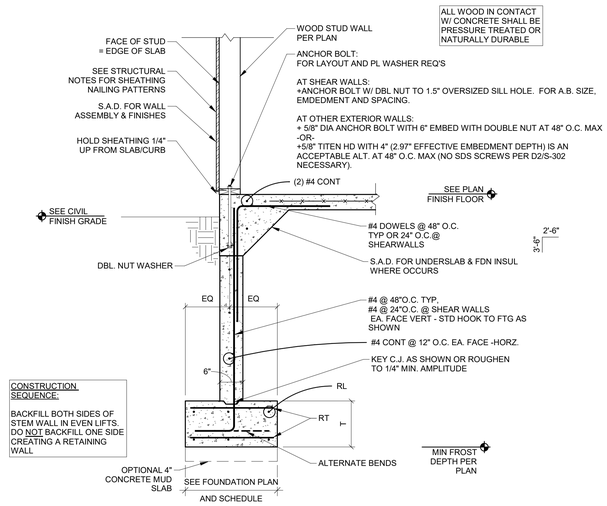


B1 TYP. STEEL COL @ EXT WALL (STEM)
3/4" = 1'-0"

SECTION 'B-B' CORNER

SECTION 'B-B' EDGE

SEE A1 / S-301A FOR INFO NOT SHOWN.



NOTES:
1. SEE DETAIL B2/S-301 FOR SECTION @ SHEAR WALL HOLDOWN

A1 TYP. SECTION @ EXTERIOR STUD WALL (STEM)
3/4" = 1'-0"

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PROJECT MANAGER:	RAD
PROJECT DRAFTER:	MJN

MONTANA
THOMAS R. MORRIS
23393PE
REGISTERED PROFESSIONAL ENGINEER
10-23-25

CHICK-FIL-A
CUSTER & WASHINGTON
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FSR#05484

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SHEET
FOUNDATION DETAILS - STEM

SHEET NUMBER
S-301A

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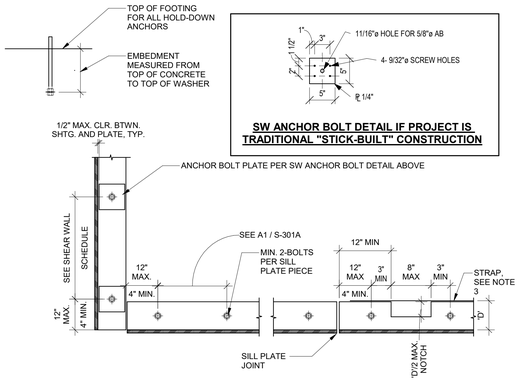
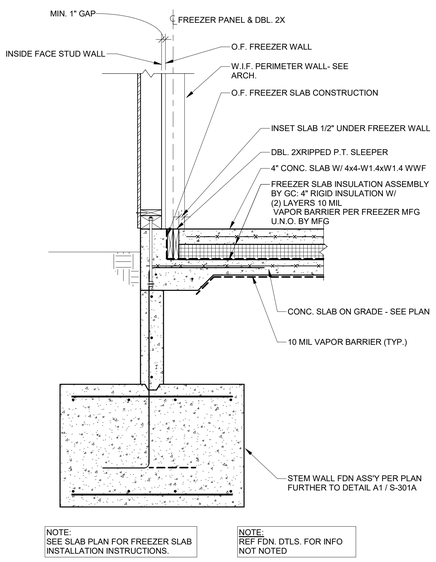
20-LS-05484-S-301A-FOUNDATION DETAILS - STEM



NOTES:

1. IF END DISTANCE REQUIREMENTS CANNOT BE ACHIEVED AS SHOWN, USE SIMPSON LMA6Z SILL CONNECTOR TO SATISFY AT 6x WALLS; (2) MASB TO SATISFY AT 8x WALLS. TOTAL NUMBER OF AB'S FOR SHEAR WALLS AND OTHER LOCATIONS SHALL NOT BE ALTERED.
2. ANCHORAGE SHOWN FOR STRUCTURAL WALLS ONLY. S.A.D. FOR PARTITION ANCHORAGE.
3. PROVIDE REINFORCING STRAP CS14 AT ALL SILL NOTCHES > 'D'/4. EXTEND STRAP MIN 32" PAST EACH END OF NOTCH. USE 50% NAILING AND HDG NAILS TO PT SILL.

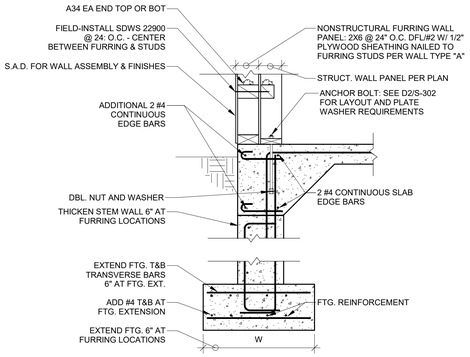
D2 TYP. SILL BOLTING LAYOUT
N.T.S.



NOTE:
SEE SLAB PLAN FOR FREEZER SLAB
INSTALLATION INSTRUCTIONS.

NOTE:
REF FDN. DTLS. FOR INFO
NOT NOTED

A3 FREEZER DEPRESSION DETAIL @ EXT (S.T.)
3/4" = 1'-0"



B1 FURRING PANEL SILL CONDITON (S.T.S.)
3/4" = 1'-0"

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PROJECT MANAGER:	RAD
PROJECT DRAFTER:	MJN

MONTANA
THOMAS R. MORRIS
No. 23393PE
REGISTERED PROFESSIONAL ENGINEER
10-23-25

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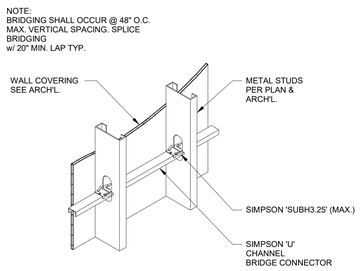
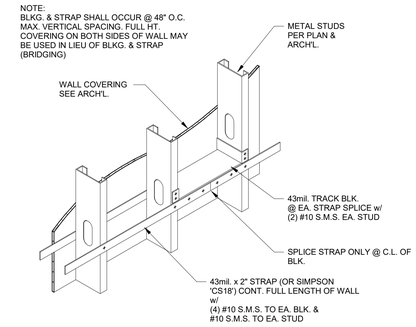
SHEET
FOUNDATION DETAILS - SILL TEMPLATE

SHEET NUMBER
S-302

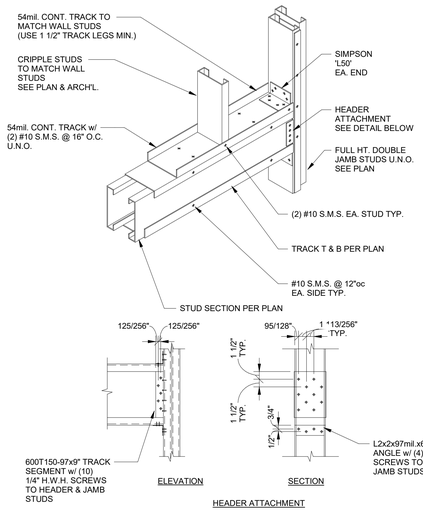
10/23/2025 11:49:32 AM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_STR.rvt
20-LS-05484-S-302-FOUNDATION DETAILS - SILL TEMPLATE

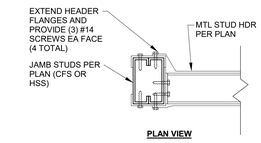


D2 METAL STUD WALL BRIDGING ALT
1" = 1'-0"

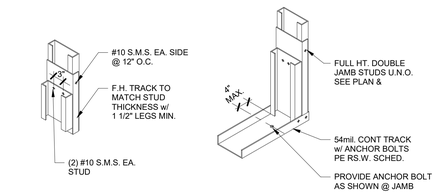


D1 TYP. METAL STUD WALL BRIDGING
1" = 1'-0"

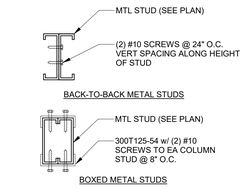




C1 STEEL HEADER TO POST CONNECTION
1 1/2" = 1'-0"



B2 TYP. METAL STUD R.O. DETAILING
1" = 1'-0"

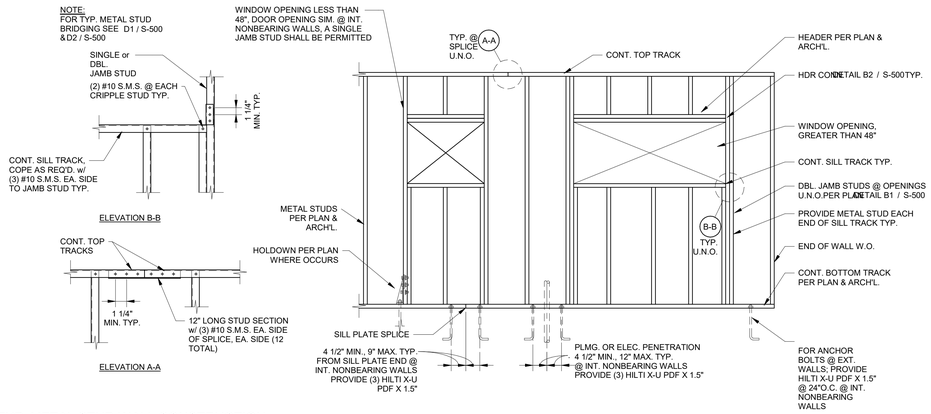


B1 METAL STUD BOX
1 1/2" = 1'-0"

MINIMUM CONNECTION SCHEDULE	
CONNECTION TYPE	MINIMUM CONNECTION HARDWARE
BRIDGING & BLOCKING TO STUDS EACH END	(2) #10 SMS FLANGE-TO-FLANGE -OR- 16GA CLIP W/ (2) #10 SMS EA LEG WEB-TO-WEB
STUD TO TOP TRACK	(2) #10 SMS FLANGE-TO-FLANGE
STUD TO SILL TRACK	(2) #10 SMS FLANGE-TO-FLANGE
DOUBLE STUDS, WEB SCREW	(2) #10 SMS @ 24" O.C.; ADD #10 SMS @ EDGE SCREW SPACING WHERE DBL STUD IS WITHIN A SHEAR WALL
BUILT-UP POSTS & JAMBS	#12 SMS AT 12" O.C. EACH FLANGE TOP AND BOTTOM
BUILT-UP HEADERS & SILLS	#12 SMS AT 12" O.C. EACH FLANGE TOP AND BOTTOM

NOTES:
1. ALL SCREWS SHALL BE PLACED S.T. THEY ARE MINIMUM 1.5 SCREW DIAMETERS FROM EDGE OF ANY CONNECTED MATERIAL
2. ALL SCREWS SHALL BE PLACED S.T. THEY ARE SPACED MINIMUM 3 SCREW DIAMETERS FROM NEAREST ADJACENT SCREW
3. SEE SPECS FOR ADDITIONAL FASTENER REQUIREMENTS

A4 FASTENING SCHEDULE
1" = 1'-0"



A2 TYP. METAL STUD WALL CONSTRUCTION
1" = 1'-0"

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PROJECT ENGINEER:	FDR
PROJECT MANAGER:	RAD
PROJECT DRAFTER:	MJN

MONTANA
THOMAS R. MORRIS
No. 23937PE
REGISTERED PROFESSIONAL ENGINEER
10-23-25

CHICK-FIL-A
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BUILDING TYPE / SIZE: BTS LS XPS
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SHEET
TYPICAL STEEL FRAMING DETAILS

SHEET NUMBER
S-500

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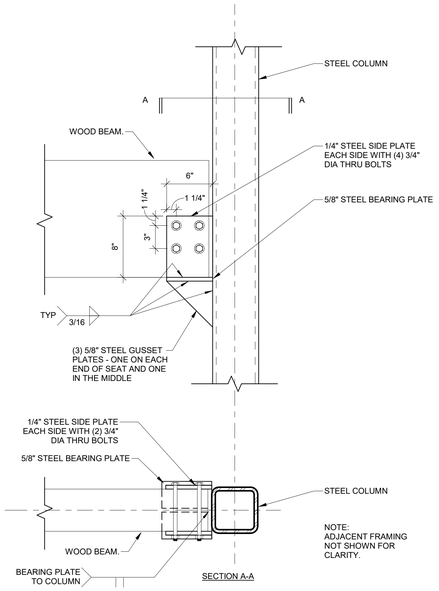
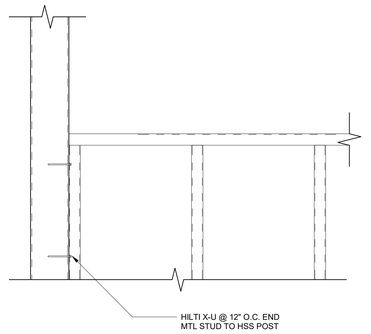
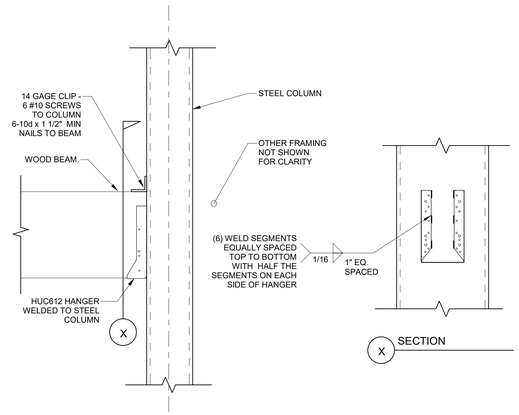
20-LS-05484-S-500-TYPICAL STEEL FRAMING DETAILS



B3 WOOD BEAM AT CONTINUOUS STEEL COLUMN
1 1/2" = 1'-0"



B2 FRAMING @ DT CORNER CONDITION (LS, LSR, LSP)
1 1/2" = 1'-0"



B1 WOOD BEAM AT CONTINUOUS STEEL COLUMN
1 1/2" = 1'-0"

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PROJECT ENGINEER:	FDR
PROJECT MANAGER:	RAD
PROJECT DRAFTER:	MJN

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23993PE
REGISTERED
PROFESSIONAL ENGINEER
10-23-25

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2770 N WASHINGTON ST HELENA, MT 59602

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SHEET
STEEL FRAMING DETAILS

SHEET NUMBER
S-501

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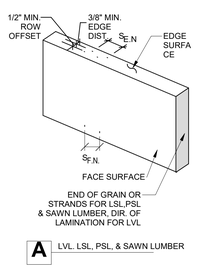
20-LS-05484-S-501-STEEL FRAMING DETAILS

NAIL TYPE	MINIMUM NAIL SPACING 1 1/2" THK. MIN. PSL $S_{E.N}$	$S_{F.N}$	1 1/2" THK. MIN. LSL $S_{E.N}$	$S_{F.N}$	1 1/2" THK. MIN. SAWN LUMBER $S_{E.N}$	$S_{F.N}$
8d BOX	3"	2"	3"	2"	2"	4"
8d COMMON	3"	2"	3"	2"	2"	6"
10d BOX	4"	2"	4"	2"	2"	6"
10d COMMON	4"	3"	4"	2 1/2"	2 1/2"	6"
12d BOX	4"	2"	6"	2"	2"	6"
12d COMMON	4"	3"	6"	2 1/2"	2 1/2"	6"
16d BOX	4"	3"	6"	2 1/2"	2 1/2"	6"
16d SINKER	4"	3"	6"	2 1/2"	2"	6"
16d COMMON	6"	4"	6"	3"	4"	8"

NOTES:

1. LVL, PSL, LSL SEE MFG LITERATURE FOR ADDITIONAL INFO
2. FOR MULTIPLE ROWS, 10d COMMON MAXIMUM SIZE
   FASTENER @ MINIMUM 3" O.C. STAGGERED & OFFSET
   ROWS BY MINMUM 1/2"

D4 MINIMUM NAIL SPACING SCHEDULE
N.T.S.

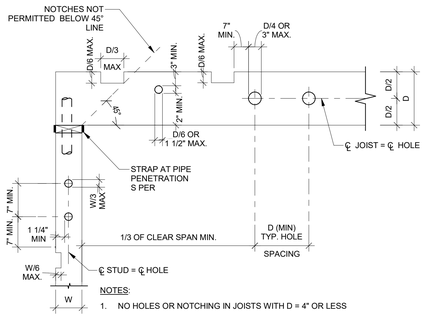


A LVL, LSL, PSL, & SAWN LUMBER

TYP. INTERIOR NON BEARING WOOD HEADER SCHEDULE			
OPENING WIDTH	2X4 STUDS	2X6 STUDS	2X8 STUDS
X ≤ 4.5	4X4	6X4 FLAT	8X4 FLAT
4.5 < X ≤ 5.5	4X6	6X4 FLAT	8X4 FLAT
5.5 < X ≤ 7	4X6	6X6	8X6 FLAT
7 < X ≤ 8	4X8	6X6	8X6 FLAT
8 < X ≤ 9.5	4X8	6X8	8X6 FLAT
9.5 < X ≤ 10	4X8	6X8	8X8
10 < X ≤ 12	4X10	6X10	8X8
12 < X ≤ 14	4X12	6X10	8X10
15 < X ≤ 15	4X14	6X10	8X10

NOTE: SEE C2 / S-600 FOR TYP. INTERIOR HEADER ATTACHMENTS

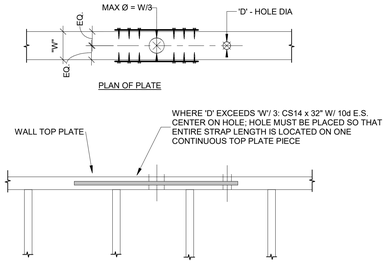
D3 INTERIOR HEADER SCHEDULE
N.T.S.



NOTES:

1. NO HOLES OR NOTCHING IN JOISTS WITH D = 4" OR LESS
2. WALL NOTCHES ARE ONLY PERMITTED ON INTERIOR NON- BEARING WALLS
3. NOTCHES ARE NOT ALLOWED IN MIDDLE THIRD OF BEAM SPAN
4. AT DT DOOR HDR, DRILL A 1" DIA. VERT HOLE THRU CENTER OF HDR AT NO MORE THAN 6" FROM SUPPORT FOR CONDUIT ROUTING

D2 TYP. HOLES AND NOTCHES IN SAWN LUMBER
1" = 1'-0"



PLAN OF PLATE

NOTES:
1. THIS DETAIL APPLIES UNLESS SPECIFICALLY NOTED OTHERWISE
2. DETAIL SIM. AT SOLE & SILL PLATE PENETRATIONS
3. PLATE HOLE SHALL NOT INTERFERE WITH COLLECTOR STRAPS SHOWN ON PLAN
4. SPRAY-APPLY PRESERVATIVE TREATMENT TO ANY CUTS, HOLES AND NOTCHES IN TREATED SILLS

D1 TYP. HOLES IN PLATES AND SILLS
1" = 1'-0"

1. STUDS, JOISTS, HEADERS, ETC.

NAILING SCHEDULE		
CONNECTION	FASTENER*	NUMBER OR SPACING
BRIDGING TO JOIST TOE NAIL EACH END	8D COMMON	2
JOIST TO SILL OR GIRDER TOE NAIL	8D COMMON	3
1"x6" SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL	8D COMMON	2
WIDER THAN 1"x6" SUBFLOOR TO EACH JOIST, FACE NAIL	8D COMMON	3
2-INCH SUBFLOOR TO JOIST OR GIRDER, BLIND & FACE NAIL	16D COMMON	2
SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16D COMMON	16" O.C.
TOP OR SOLE PLATE TO STUD	2x PLATES: (3) 10D COMMON END NAIL OR (3) 8D LONG TOE NAIL AT TOP PLATE OR (4) 8D LONG TOE NAIL AT SILL PLATE 3x PLATES: (3) 10D LONG END NAIL OR (5) 8D LONG TOE NAIL	
DOUBLED STUDS, FACE NAIL	10D COMMON	18" O.C.
DOUBLED TOP PLATES, FACE NAIL	10D COMMON	12" O.C.
BLOCKING BETWEEN JOISTS TO TOP PLATE. TOE NAIL	8D COMMON	3
RIM JOIST TO TOP PLATE, TOE NAIL	8D COMMON	6" O.C.
TOP PLATES, LAP AND INTERSECTIONS FACE NAIL	16D COMMON	2
CONTINUOUS HEADER, TWO PIECES	10D COMMON	12" O.C. ALONG EACH EDGE
CEILING JOISTS TO PLATES, TOE NAIL	8D COMMON	3
CONTINUOUS HEADER TO STUD, TOE NAIL	8D COMMON	4
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	16D COMMON, MIN	3
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	16D COMMON, MIN	3
RAFTER TO PLATE, TOE NAIL	8D COMMON	3
1-INCH BRACE TO EACH STUD & PLATE, FACE NAIL	8D COMMON	2
1"x8" SHEATHING OR LESS TO EACH BEARING, FACE NAIL	8D COMMON	3
WIDER THAN 1"x8" SHEATHING TO EACH BEARING, FACE NAIL	8D COMMON	3
BUILT-UP CORNER STUDS EACH BEARING, FACE NAIL	10D COMMON	18" O.C.
BUILT-UP GIRDERS & BEAMS, FACE NAIL	20D COMMON	32" O.C. AT TOP & BOTTOM STAGGERED ON OPPOSITE SIDES
2-INCH PLANKS	16D COMMON	AT EACH BEARING
JOIST TO BAND JOIST, FACE NAIL	16D COMMON	3
LEDGER STRIP, FACE NAIL	16D COMMON	3 AT EACH JOIST
SHEATHING BLOCKING TO STUD	EACH END OF BLOCKING: (3) 8D LONG END NAIL OR (2) 8D LONG TOE NAIL OR (6) 16GA WIRE STAPLES	

*NOTE: ALL 8D COMMON CALLOUTS MAY USE 8D LONG AS AN ALT. ALL 10D COMMON CALLOUTS MAY USE 10D LONG AS AN ALT.

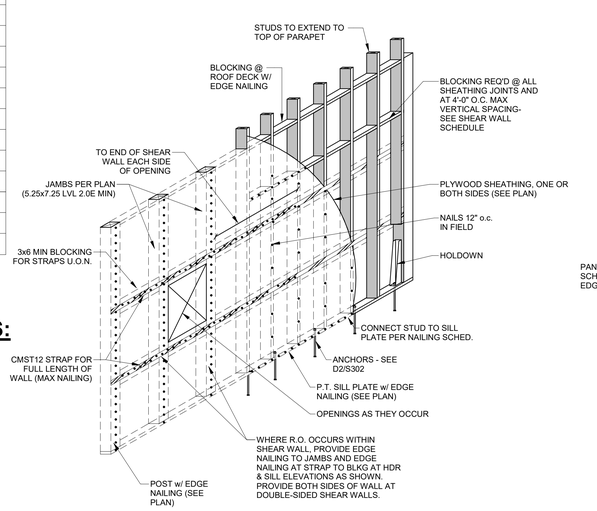
2. SHEATHING @ NON-SHEAR WALL LOCATIONS:

PLYWOOD AND O.S.B. BOARD WALL SHEATHING		
THICKNESS	FASTENER	NUMBER OR SPACING
1/2" OR LESS	10D SHORT	6" O.C. EDGES AND 12" O.C. INTERMEDIATE
5/16", 1/2"	16 GA GALVANIZED WIRE STAPLES, 3/8" MINIMUM CROWN	4" O.C. EDGES AND 8" O.C. INTERMEDIATE

FIBERBOARD AND GYPSUM WALL SHEATHING		
THICKNESS	FASTENER	NUMBER OR SPACING
1/2" FIBERBOARD SHEATHING	1 1/2" GALVANIZED ROOFING NAIL 6D COMMON WALL	3" O.C. AT EDGES / 6" O.C. AT OTHER BEARING
1/2" GYPSUM SHEATHING	11 GA 1 1/2" GALVANIZED 7/16" HEAD	4" O.C. AT EDGES / 8" O.C. AT OTHER BEARING
1/2" GYPSUM WALLBOARD	1 3/8" DRY- WALL NAIL	7" O.C. ON CEILING / 8" O.C. ON WALLS

NOTES:
1. FOR ALL EXTERIOR WOOD STUD WALLS NOT DESIGNATED AS SHEAR WALLS PROVIDE 1/2" THICK STRUCT I PLYWOOD SHEATHING W/ 10D NAILS @ 6" O.C. @ PANEL EDGES, AND @ 12" O.C. @ FIELD AT EXTERIOR FACES (INCLUDING CANOPIES).
2. FOR ALL EXTERIOR METAL STUD WALLS NOT DESIGNATED AS SHEAR WALLS ATTACH PANELS w/ #8 SCREWS @ 6" O.C. @ PANEL EDGES, AND @ 12" O.C. @ FIELD AT EXTERIOR FACES (INCLUDING CANOPIES). SEE ARCH FOR PANEL MATERIAL.
3. PROVIDE 1/2" THICK STRUCT I PLYWOOD SHEATHING W/ 10d NAILS @ 6" O.C. @ PANEL EDGES, AND @ 12" O.C. @ FIELD FOR EAVES AND CANOPY CEILINGS.

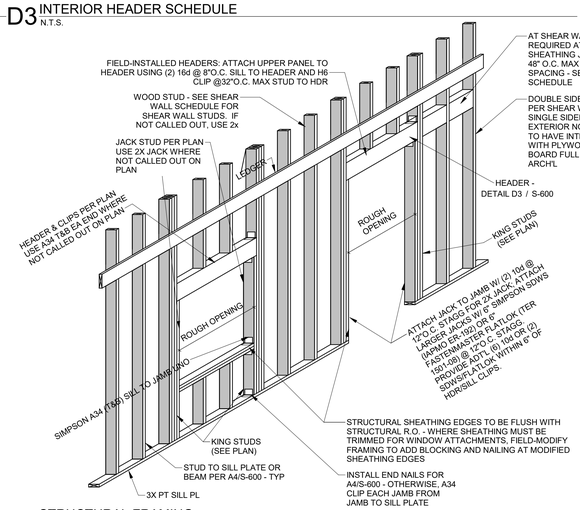
A4 NAILING SCHEDULE
N.T.S.



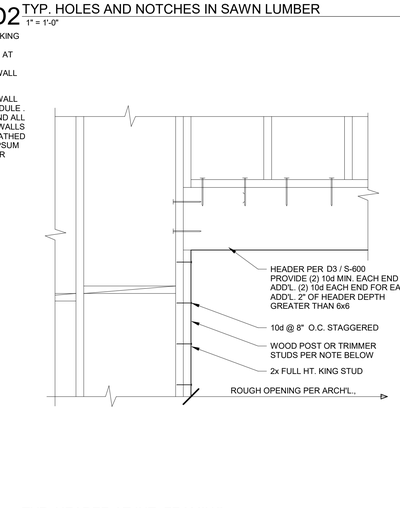
NOTES:

1. PRIOR TO CONSTRUCTING WALL, REVIEW LATEST DIMENSIONED ARCHITECTURAL DRAWINGS AND NOTIFY ENGINEER OF ANY LOCATIONS WHERE MINIMUM SHEAR WALL LENGHTS WILL NOT BE MET. MINIMUM LENGTHS BASED ON OUT TO OUT FACE OF TIEDOWN POSTS. WHERE NO TIEDOWN OCCURS, DIMENSION BASED ON EDGE OF ROUGH OPENING OR END OF WALL.
2. INDICATED SHEATHING, WALL FRAMING, AND NAILING IN THIS SCHEDULE APPLY TO ALL STRUCTURAL WALLS AS DESIGNATED.
3. NAILS AT ALL PANEL EDGES SHALL BE STAGGERED WITH 1/2" OFFSET BETWEEN ADJACENT FASTENERS IN A ROW.
4. 0148" Ø x 2-1/2" MIN LENGTH NAIL MAY BE USED IN LIEU OF 10d COMMON FOR ALL SHEATHING NAILING. NAILS MUST BE DRIVEN FLUSH WITHOUT OVER-DRIVING THROUGH SURFACE OF SHEATHING.
5. PROVIDE 10d @ 12" O.C. FIELD NAILING AT WALL SHEATHING, TYP.
6. SEE PLANS FOR SHEARWALL TIEDOWN SIZE AND LOCATION.
7. PLACE SHEATHING ON SIDE OF WALL WHERE SYMBOL IS SHOWN ON PLAN. SEE SCHEDULE IF DOUBLE SIDED.
8. FOR TYPICAL WALL FRAMING, SEE SHEET S-251.
9. WHERE WALL HEIGHT DICTATES HORIZONTAL SHEATHING JOINTS AT WALL, PROVIDE BLOCKING PER B1 / S-600
10. SHEATHING THICKNESS IS NOMINAL; ACTUAL THICKNESS EQUIVALENTS ARE: 1/2"= 15/32", 5/8"= 19/32", 3/4"=23/32".
11. WALL SCHEDULE IS BASED ON DOUG FIR-LARCH STUDS; SOLE PLATES AND PRESSURE TREATED SILL PLATES. ANY ALTERNATE SPECIES OR MATERIALS MUST BE APPROVED BY ENGINEER.
12. ANCHOR BOLTS SHALL BE PER SHEAR WALL SCHEDULE.
13. WALLS DESIGNATED ON THE PLANS FOR A SPECIFIC NAILING PATTERN MAY BE NAILED AT A CLOSER SPACING WITH DBL. 2x STUDS AT PLWD JOINTS AS NOTED. OTHER COMPONENTS OF WALL ASSEMBLY DO NOT HAVE TO BE INCREASED BEYOND THE REQUIREMENTS FOR THE WALL DESIGNATED ON THE PLANS.
14. NO HOLES OR PENETRATIONS ARE PERMITTED IN ANY SHEAR WALL SHEATHING.
15. NAILS INTO P.T. SILL PLATES AND OTHER P.T. LUMBER MUST BE H.D.G.
16. MIN. (4) SILL ANCHOR BOLTS PER SHEAR WALL
17. PROVIDE FULL 4' X 8' SHEETS OF SHEATHING EXCEPT AT BOUNDARIES AND CHANGES IN FRAMING

A3 TYP. FORCE-TRANSFER SHEAR WALL
N.T.S.

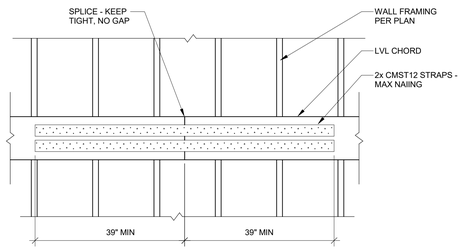


C3 STRUCTURAL FRAMING
N.T.S.

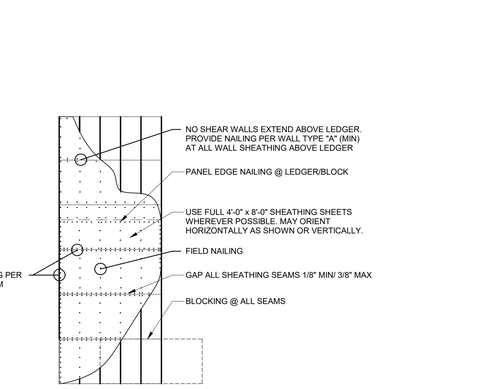


B2 TYP. SHEAR WALL SHEATHING
N.T.S.

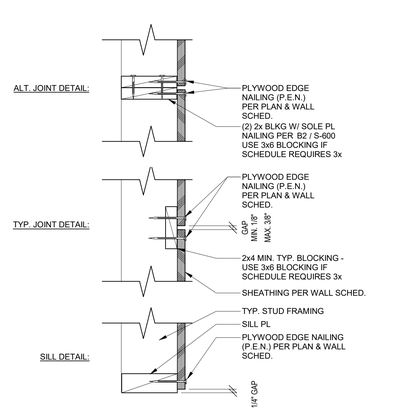
D2 TYP. HEADER AT INT. FRAMING
1" = 1'-0"



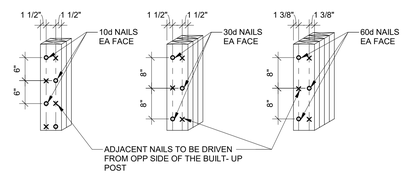
C1 SPLICE DETAIL
3/4" = 1'-0"



A2 TYP. HSS COLUMN IN-WALL
3/4" = 1'-0"



B1 TYP. HORZ. SHEATHING JOINTS
1 1/2" = 1'-0"



A1 BUILT UP POST DETAIL
3/4" = 1'-0"

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PROJECT NUMBER:	23-0502
PROJECT ENGINEER:	FDR
PROJECT MANAGER:	RAD
PROJECT DRAFTER:	MJN

MONTANA
THOMAS R. MORRIS
No. 23393PE
REGISTERED PROFESSIONAL ENGINEER
10-23-25

CHICK-FIL-A
CUSTER & WASHINGTON

2770 N WASHINGTON ST
HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
PRINTED FOR **PERMIT SET**

REVISION SCHEDULE

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CONSULTANT PROJECT #	LAX22-0129-01
DATE	03/01/2024
DRAWN BY	MJN

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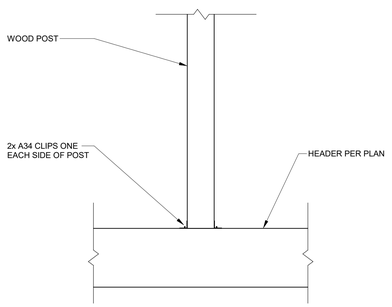
SHEET
TYPICAL WOOD FRAMING DETAILS

SHEET NUMBER
S-600

10/23/2025 11:49:38 AM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_STR.rvt
20-LS-05484-S-600-TYPICAL WOOD FRAMING DETAILS



C2 WOOD POST AT HEADER
1" = 1'-0"

OPENING WIDTH		SEE ARCH. * 1/2" BRICK W/ AIR SPACE, SEE ARCH.	BRICK W/ NO AIR SPACE, SEE ARCH.
MIN.	MAX.		
0'-8"	5'-0"	L5 x 5 x 5/16"	L4 x 4 x 1/4"
>5'-0"	6'-3"	L5 x 5 x 5/16"	L4 x 4 x 5/16"
>6'-3"	6'-9"	L5 x 5 x 5/16"	L4 x 4 x 3/8"
>6'-9"	7'-9"	L5 x 5 x 5/16"	L4 x 4 x 7/16"
>7'-9"	8'-3"	L5 x 5 x 3/8"	L4 x 4 x 1/2"
>8'-3"	8'-9"	L5 x 5 x 3/8"	L4 x 4 x 5/8"
>8'-9"	9'-0"	L5 x 5 x 7/16"	L4 x 4 x 5/8"
>9'-0"	9'-6"	L5 x 5 x 7/16"	L4 x 4 x 3/4"
>9'-6"	10'-3"	L5 x 5 x 1/2"	N/A
>10'-3"	11'-6"	L5 x 5 x 5/8"	N/A
>11'-6"	12'-3"	L5 x 5 x 3/4"	N/A
>12'-3"	13'-0"	L5 x 5 x 7/8"	N/A

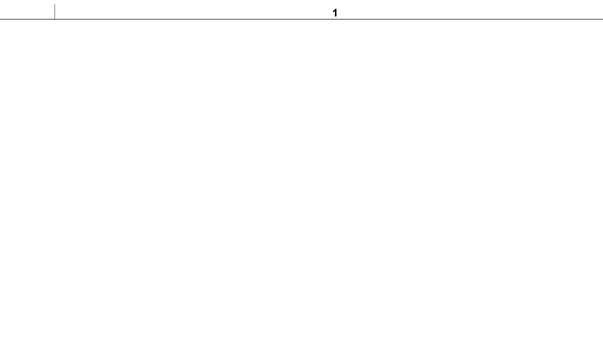
NOTES:
1. * ANGLE HORIZONTAL LEG VARIES BASE ON AIR SPACE DIMENSION. 5/8" MAX BRICK OVERHANG.
2. PROVIDE 8" MIN. BEARING AT EACH END OF OPENING, U.N.O.
3. "L" INDICATES ANGLE OR BENT PLATE
4. LOOSE LINTEL SCHEDULE DOES NOT APPLY TO LINTELS WHERE BRICK HEIGHT ABOVE LINTEL IS LESS THAN 1/2 THE SPAN OF THE LOOSE LINTEL.

C1 LINTEL SCHEDULE
N.T.S.

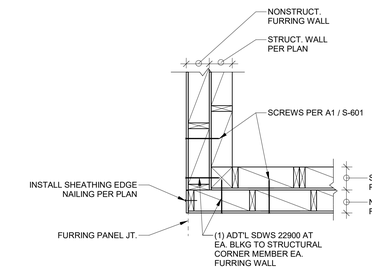
B5 TYP. PARAPET HEAD CONDITION
1 1/2" = 1'-0"

B3 HEAD CONDITION - FULL HT FURRING
3/4" = 1'-0"

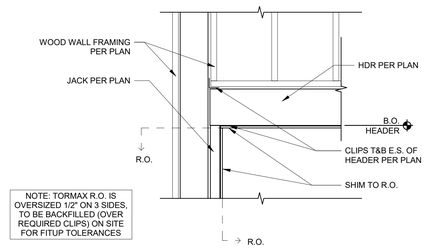
B2 EYEBROW CORNICE DETAIL
1 1/2" = 1'-0"



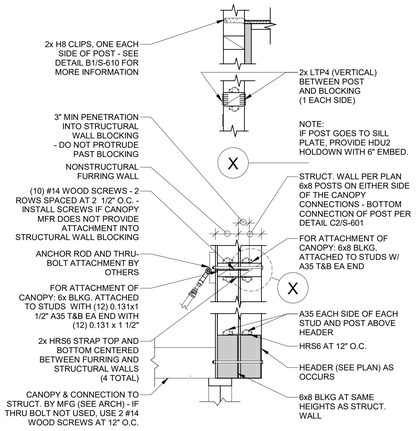
B1 HEAD CONDITION - PARAPET W/ CAP
3/4" = 1'-0"



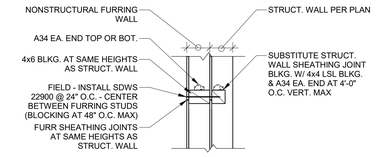
A4 FURRING PANEL - CORNER CONDITION (LS, LSR, LC, LE, DTO, DTN)
3/4" = 1'-0"



A3 TORMAX DOOR HEADER DTL.
3/4" = 1'-0"



A2 FURRING PANEL - RO HEAD CONDITION
3/4" = 1'-0"



A1 FURRING PANEL - TYP BLKG CONDITION
3/4" = 1'-0"

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PROJECT NUMBER:	23-0502
PROJECT ENGINEER:	FDR
PROJECT MANAGER:	RAD
PROJECT DRAFTER:	MJN

MONTANA
THOMAS R. MORRIS
23393PE
REGISTERED PROFESSIONAL ENGINEER
10-23-25

CHICK-FIL-A
CUSTER & WASHINGTON
2770 N WASHINGTON ST HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
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CONSULTANT PROJECT #	LAX22-0129-01
DATE	03/01/2024
DRAWN BY	MJN

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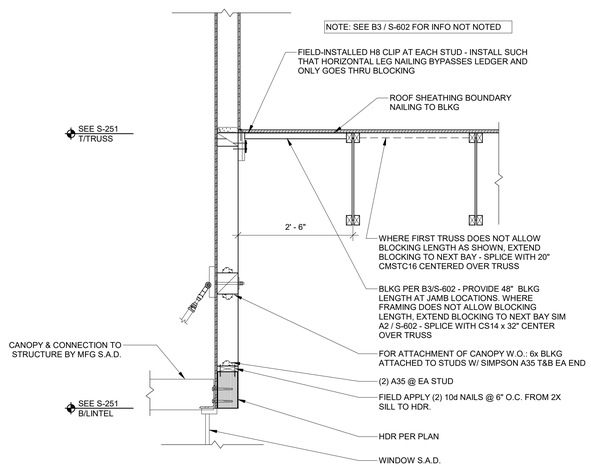
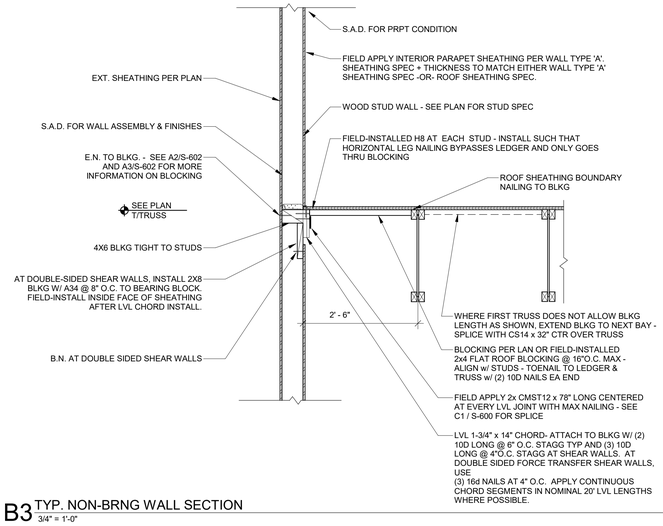
SHEET
TYPICAL WOOD FRAMING DETAILS

SHEET NUMBER
S-601

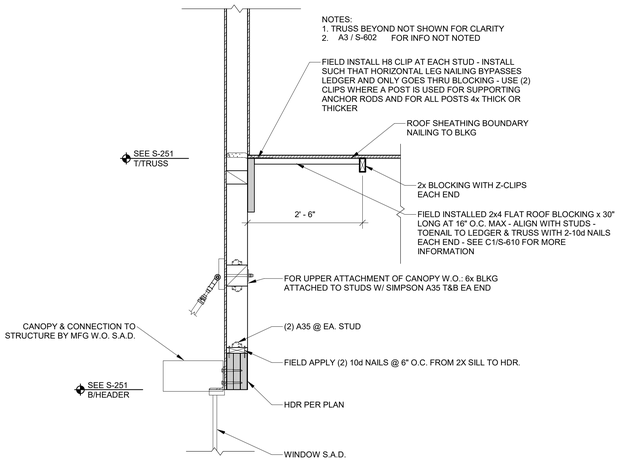
10/23/2025 11:49:40 AM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_STR.rvt
20-LS-05484-S-601-TYPICAL WOOD FRAMING DETAILS



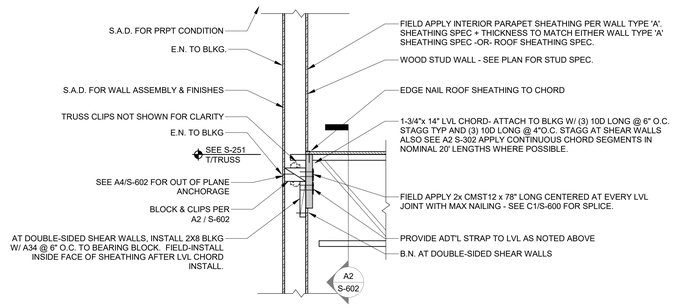
B4 TYP. NON-BRNG WALL SECTION AT WINDOW OR DOOR AND/OR CANOPY OR NEITHER
3/4" = 1'-0"



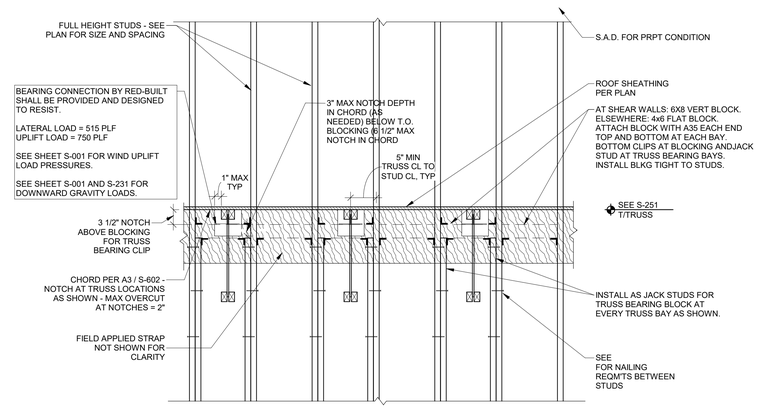
B3 TYP. NON-BRNG WALL SECTION
3/4" = 1'-0"



A4 TYP. BRNG WALL SECTION AT WINDOW OR DOOR AND/OR CANOPY OR NEITHER
3/4" = 1'-0"



A3 TYP. TRUSS TO WOOD CONNECTION DETAIL
3/4" = 1'-0"



A2 ELEVATION @ LOAD BEARING WALLS
3/4" = 1'-0"

DESIGN NOTE 2024-009

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PROJECT MANAGER:	RAD
PROJECT DRAFTER:	MJN

MONTANA
THOMAS R. MORRIS
23993PE
REGISTERED PROFESSIONAL ENGINEER
10-23-25

CHICK-FIL-A
CUSTER & WASHINGTON
2770 N WASHINGTON ST
HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE:	BTS LS XPS
RELEASE:	23.09
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DATE	03/01/2024
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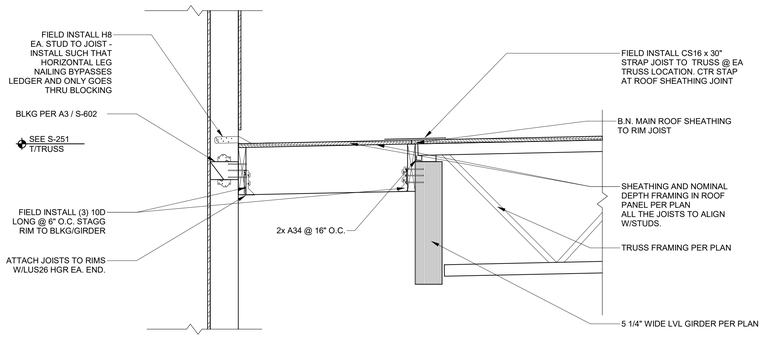
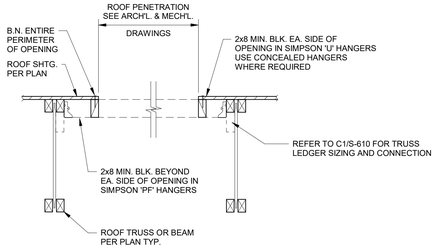
SHEET
WOOD FRAMING DETAILS

SHEET NUMBER
S-602

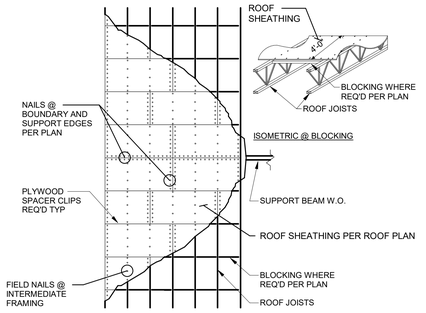
10/23/2025 11:49:42 AM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR05484_Custer & Washington FSU_STR.rvt
20-LS-05484-S-602-WOOD FRAMING DETAILS



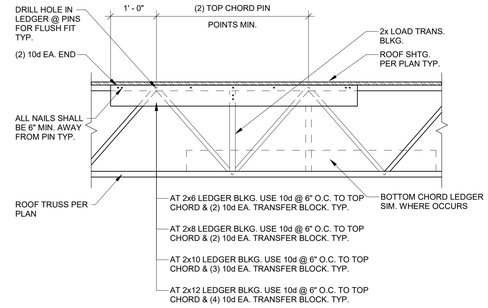
D4 DRIVE THRU ROOF AND TRUSS CONNECTION (LS, LSR, LE, LC, SE, DTN RC/SQ)
1" = 1'-0"



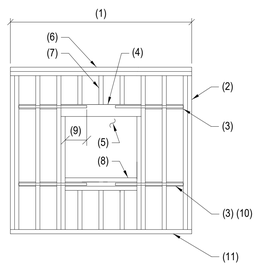
D2 TYP. ROOF PENETRATION DETAIL
1" = 1'-0"



D1 TYP. ROOF DIAPHRAGM NAILING
3/4" = 1'-0"



C1 TYP. TRUSS LEDGER BLOCK
3/4" = 1'-0"



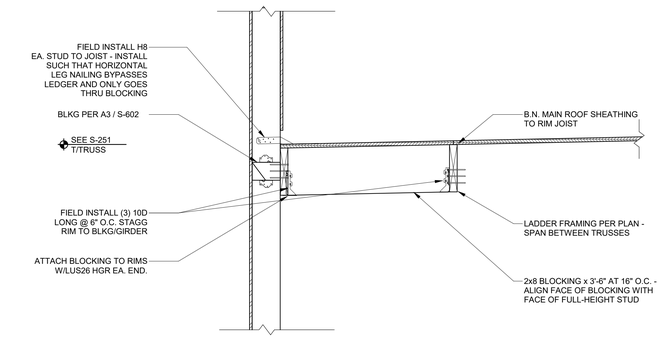
NOTES:

1. SHEAR WALL PER PLAN.
2. END OF SHEAR WALL.
3. 4x BLOCKING WITH SIMPSON CS14 STRAPS FULL WIDTH OF WALL, BOTH SIDES OF WALL. TO END OF SHEAR WALL.
4. HEADER/LINTEL AT WINDOW.
5. WINDOW OPENING.
6. WALL TOP PLATES.
7. TRIMMER AND KING STUD.
8. WINDOW SILL PLATE.
9. 16" MIN - TYP.
10. NOT REQUIRED AT FULL HEIGHT DOORS.
11. WALL BOTTOM PLATE.

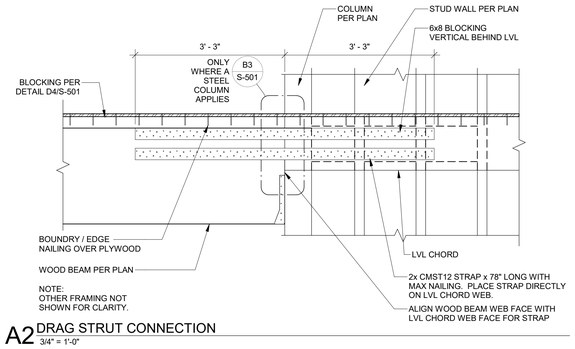
FOR ADDITIONAL INFORMATION, SEE SHEARWALL AND WOOD LINTEL REQUIREMENTS.

NOTE:
PROVIDE SHEAR WALL SHEATHING ABOVE AND BELOW WINDOW OPENINGS.

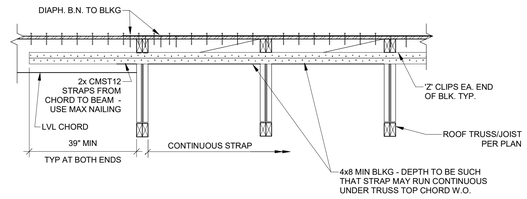
B3 WINDOW OPENING IN SHEAR WALL
1" = 1'-0"



B1 BLOCKING DETAIL
1" = 1'-0"



A2 DRAG STRUT CONNECTION
3/4" = 1'-0"



A1 TYP. STRAPPING DETAIL
3/4" = 1'-0"

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PROJECT NUMBER:	23-0502
PROJECT ENGINEER:	FDR
PROJECT MANAGER:	RAD
PROJECT DRAFTER:	MJN

MONTANA
THOMAS R. MORRIS
No. 23993PE
REGISTERED PROFESSIONAL ENGINEER
10-23-25

CHICK-FIL-A
CUSTER & WASHINGTON

2770 N WASHINGTON ST
HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
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DATE	03/01/2024
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SHEET
ROOF FRAMING DETAILS

SHEET NUMBER
S-610

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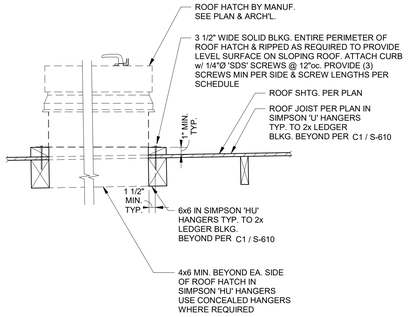
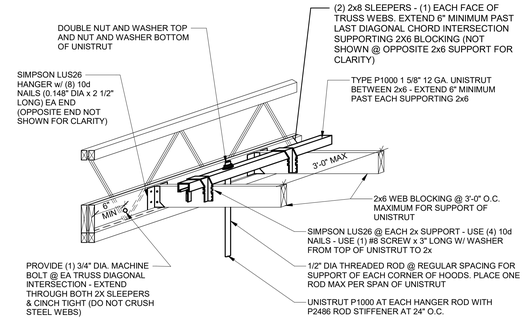
20-LS-05484-S-610-ROOF FRAMING DETAILS



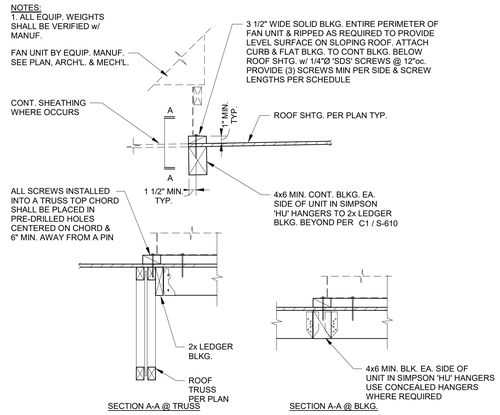
C2 ROOF HATCH ANCHORAGE
1" = 1'-0"



NOTES:
1. GENERAL CONTRACTOR WILL PROVIDE AND INSTALL ALL WEB AND WOOD BLOCKING (INCLUDING HANGERS) AND UNISTRUT.
2. SUBCONTRACTOR/EQUIPMENT INSTALLER WILL PROVIDE AND INSTALL ALL THREADED RODS WITH NUTS AND WASHERS.
3. SEE REDBUILT STANDARD INSTALLATION FOR FURTHER CLARIFICATIONS.
4. DO NOT EXCEED CAPACITY OF HANGER (500# EACH).

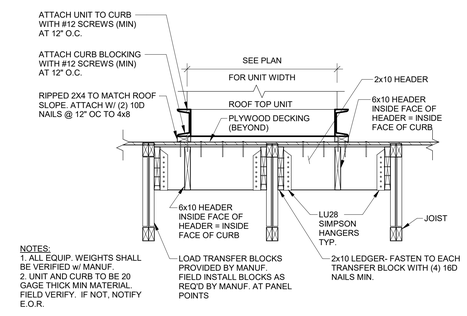
C1 TYP. HANGER DETAIL
3/4" = 1'-0"

NOTES:
1. ALL EQUIP. WEIGHTS SHALL BE VERIFIED w/ MANUF.



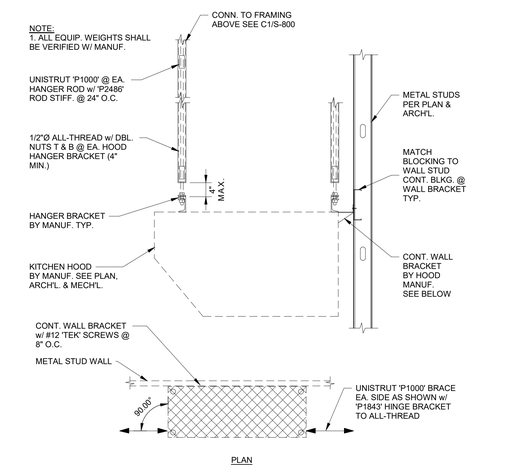
SECTION A-A @ TRUSS
SECTION A-A @ BLKG.

B3 TYP. MECH'L. FAN UNIT ANCHORAGE
1" = 1'-0"

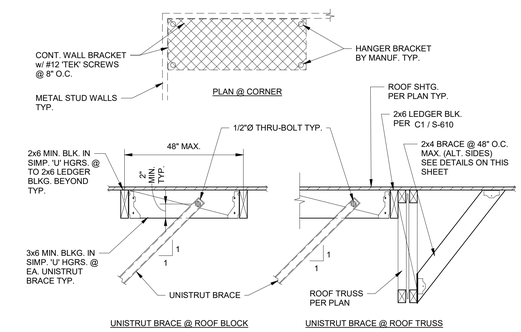


NOTES:
1. ALL EQUIP. WEIGHTS SHALL BE VERIFIED w/ MANUF.
2. UNIT AND CURB TO BE 20 GAGE THICK MIN MATERIAL. FIELD VERIFY. IF NOT, NOTIFY E.O.R.

B2 TYP. RTU FRAMING SECTION
3/4" = 1'-0"

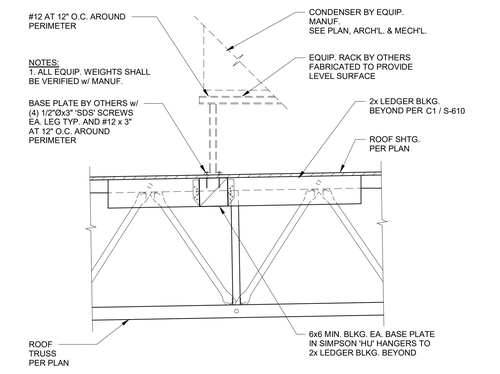


PLAN



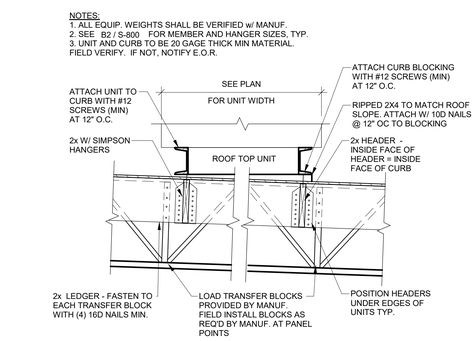
UNISTRUT BRACE @ ROOF BLOCK
UNISTRUT BRACE @ ROOF TRUSS

A1 TYP. MECH'L. HOOD SUPPORT
1" = 1'-0"



NOTES:
1. ALL EQUIP. WEIGHTS SHALL BE VERIFIED w/ MANUF.

A3 MECH'L. CONDENSING UNIT ANCHORAGE
1" = 1'-0"



NOTES:
1. ALL EQUIP. WEIGHTS SHALL BE VERIFIED w/ MANUF.
2. SEE B2 / S-800 FOR MEMBER AND HANGER SIZES, TYP.
3. UNIT AND CURB TO BE 20 GAGE THICK MIN MATERIAL. FIELD VERIFY. IF NOT, NOTIFY E.O.R.

A2 SECTION @ RTU FRAMING
3/4" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER
10-23-25

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CUSTER & WASHINGTON
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HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
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SHEET
TYPICAL NONSTRUCTURAL DETAILS
SHEET NUMBER
S-800

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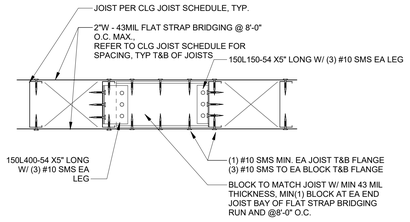
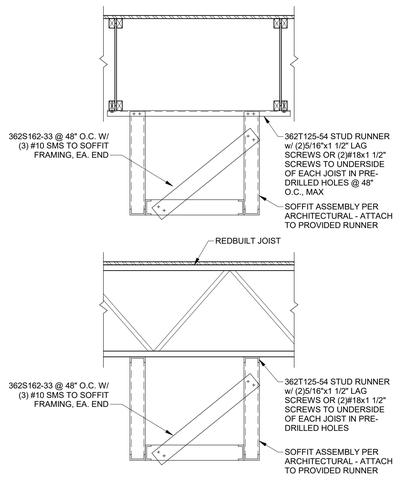
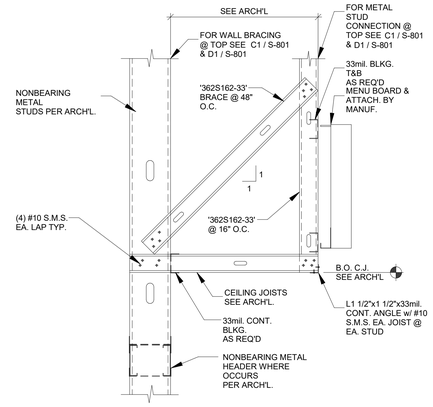


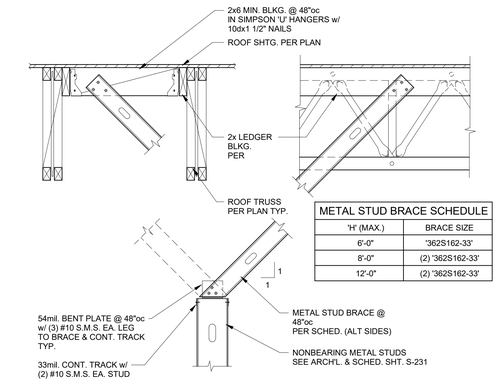
C4 TYP. STEEL JOIST BRIDGING
1 1/2" = 1'-0"



C3 TYP. INTERIOR SOFFIT
N.T.S.

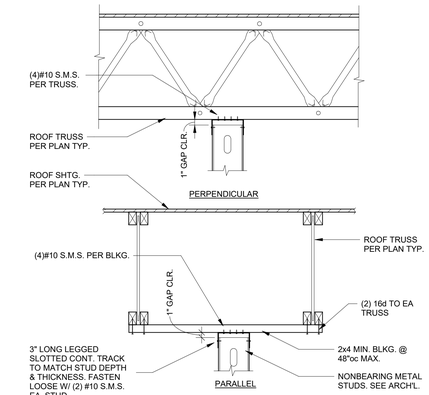


C2 CEILING SECTION 2
N.T.S.

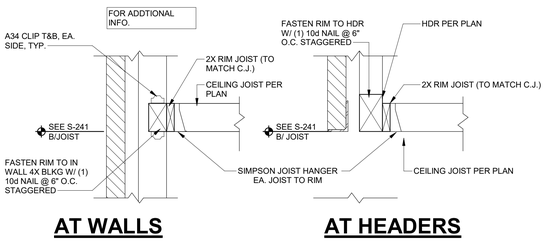


METAL STUD BRACE SCHEDULE	
'H' (MAX.)	BRACE SIZE
6'-0"	'362S162-33'
8'-0"	(2) '362S162-33'
12'-0"	(2) '362S162-33'

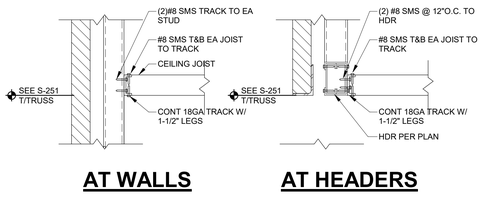
D1 TYP. MTL PARTITION WALL BRACING BELOW TRUSS
N.T.S.



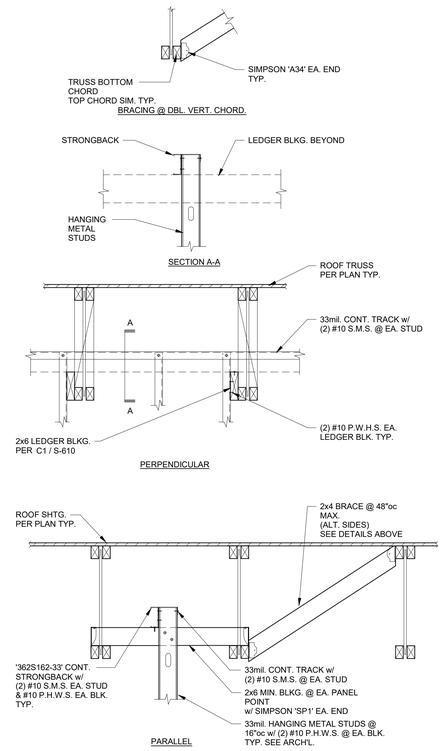
C1 TYP. MTL PARTITION WALL BRACING AT TRUSS
N.T.S.



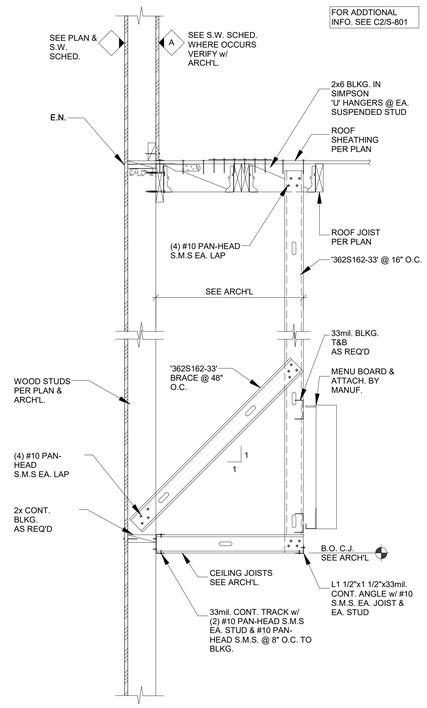
B4 TYP. CEILING ATTACHMENT (WOOD)
N.T.S.



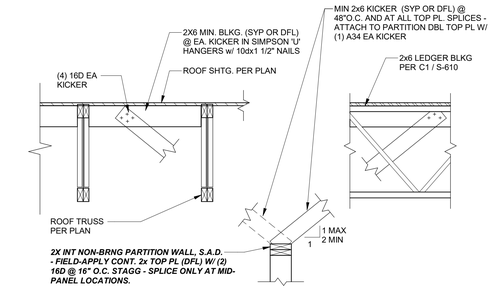
A4 TYP. CEILING ATTACHMENT (CFS)
N.T.S.



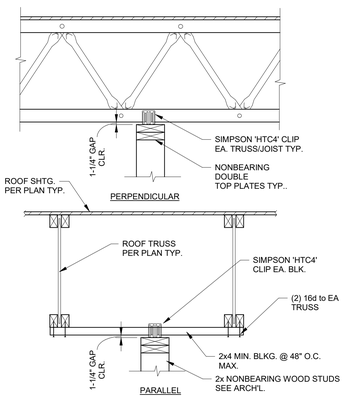
A3 TYP. HANGING METAL STUD DETAIL
N.T.S.



A2 CEILING SECTION
N.T.S.



B1 TYP. WOOD PARTITION WALL BRACING BELOW TRUSS
N.T.S.



A1 TYP. WOOD PARTITION WALL BRACING AT TRUSS
N.T.S.

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SHEET
TYPICAL NONSTRUCTURAL DETAILS
SHEET NUMBER

S-801

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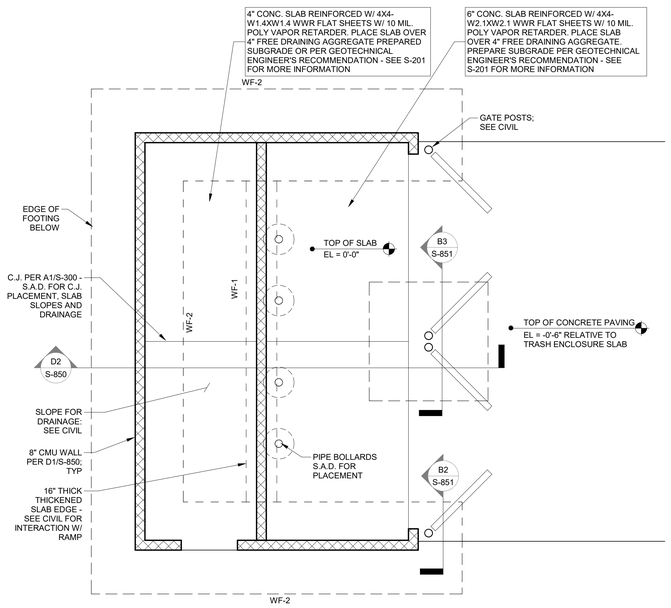
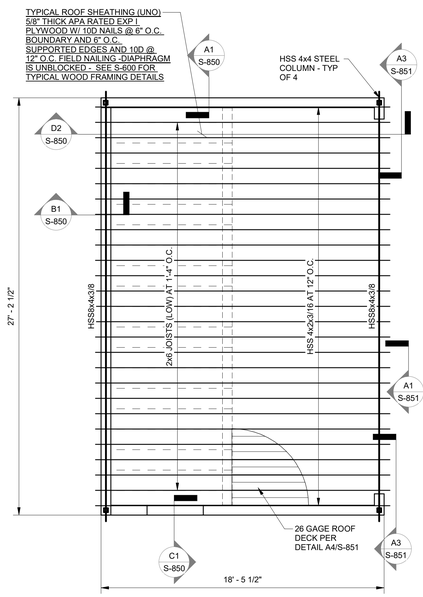
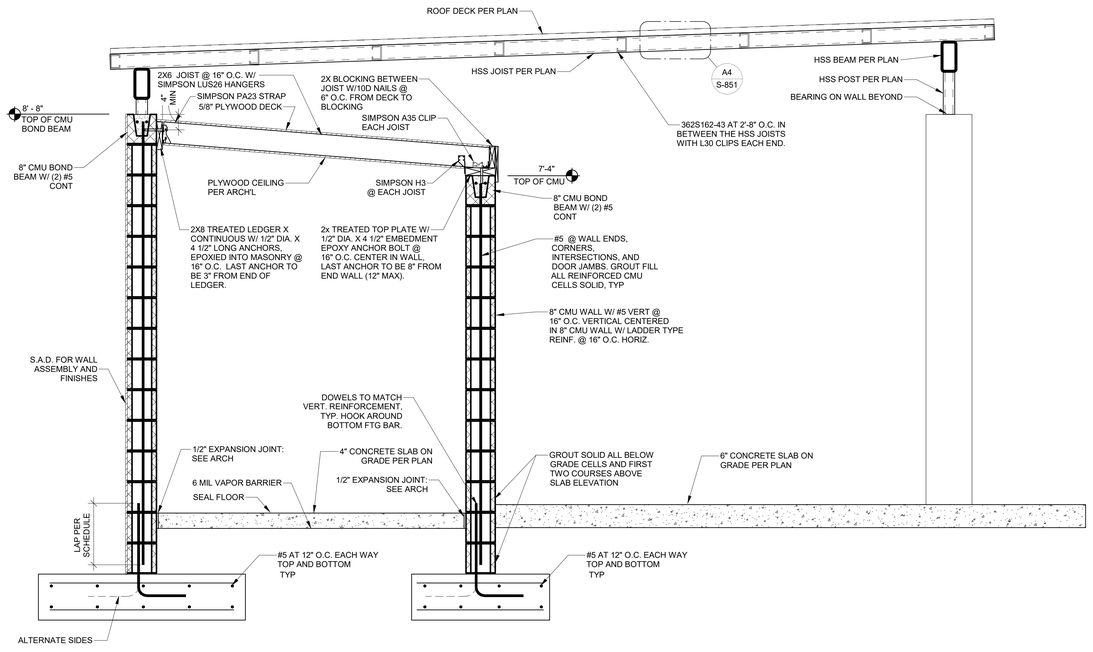


D4 REFUSE FOUNDATION PLAN
1/4" = 1'-0"



D3 REFUSE ROOF FRAMING PLAN
1/4" = 1'-0"



D2 REFUSE ENCLOSURE SECTION1
3/4" = 1'-0"

1. BOTTOM OF EXTERIOR FTG = 48" BELOW FINISH GRADE ELEV UNO
2. SEE ARCH DWG FOR ANY WALL LOCATIONS AND OR DIMENSIONS NOT SHOWN.
3. SEE DETAILA1/S-300 FOR SLAB CONTROL JOINTS.
4. WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL, UNLESS SHOWN OTHERWISE ON PLANS.
5. ALL SAW CUT CONTROL JOINTS SHALL BE COMPLETED WITHIN 12 HOURS AFTER FINISHING SLAB WITHOUT DISLODGING AGGREGATE.
6. ALL ANCHORS, CLIPS, STRAPS & ETC WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD, SUCH AS ACQ, CBA OR SBX AND ARE LESS THAN 3/8" THICK, SHALL BE SIMPSON ZMAX (G185), STAINLESS STEEL OR AN ENGINEERED APPROVED EQUAL.
7. ALL FASTENERS WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD, SUCH AS ACQ, CBA OR SBX, AND ARE LESS THAN 3/8" DIAMETER SHALL BE G185 (A HEAVY COATED GALVANIZED) STAINLESS STEEL OR AN ENGINEERED APPROVED EQUAL.
8. FOUNDATION DESIGN IS BASED ON THE FOLLOWING ASSUMPTIONS. A GEOTECHNICAL ENGINEER SHALL BE EMPLOYED PRIOR TO THE START OF CONSTRUCTION TO INVESTIGATE SUBSURFACE CONDITIONS. IF THE GEOTECHNICAL REPORT INDICATES THAT THESE ASSUMPTIONS LISTED BELOW ARE INCORRECT PLEASE NOTIFY ENGINEER IMMEDIATELY.
9. INDIVIDUAL FOOTINGS ARE DESIGNED TO BEAR ON UNIFORM SOIL CAPABLE OF SUPPORTING 3000 PSF. CONTINUOUS FOOTINGS ARE DESIGNED TO BEAR ON SOIL CAPABLE OF SUPPORTING 3000 PSF. DESIGN ASSUMES DIFFERENTIAL AND TOTAL SETTLEMENT ARE WITHIN ACCEPTED TOLERANCES FOR THE TYPE OF CONSTRUCTION USED.
10. THE SOIL BEARING CAPACITY AND CONSISTENCY SHALL BE VERIFIED FOR THE BUILDING LIMITS BY A REGISTERED GEOTECHNICAL ENGINEER WHEN FOUNDATION EXCAVATIONS HAVE BEEN CARRIED DOWN TO THE PROPOSED ELEVATIONS, THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 1'-6" MINIMUM BELOW FINISHED GRADE.
11. WHERE FOOTING EXCAVATIONS ARE TO REMAIN OPEN AND MAY BE EXPOSED TO RAINFALL, THE EXCAVATIONS SHALL BE UNDERCUT AND A 4 INCH THICK MUD MAT OF 2000 PSI CONCRETE SHALL BE PLACED IN THE BOTTOM TO PROTECT THE BEARING SOILS PER GEOTECHNICAL ENGINEERS RECOMMENDATIONS.

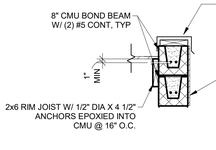
C4 FOUNDATION NOTES
1" = 1'-0"

1. SEE DETAIL D1/S-610 FOR ROOF NAILING.
2. FOR ADDITIONAL NAILING REQUIREMENTS SEE SCHEDULE ON S-401
3. ALL ANCHORS, CLIPS, STRAPS & ETC WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD, SUCH AS ACQ, CBA OR SBX, AND ARE LESS THAN 3/8" THICK, SHALL BE SIMPSON ZMAX (G185) STAINLESS STEEL OR AN ENGINEERED APPROVED EQUAL
4. ALL FASTENERS WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD, SUCH AS ACQ, CBA OR SBX, AND ARE LESS THAN 3/8" DIAMETER, SHALL BE G185 (A HEAVY COATED GALVANIZED) STAINLESS OR AND ENGINEERED APPROVED EQUAL
5. REFER TO SHEETS S-901 & S-902 FOR ADDITIONAL INFORMATION.

C3 FRAMING NOTES
1" = 1'-0"

1. ALL CONCRETE MASONRY UNITS SHALL BE NORMAL WEIGHT (DENSITY = 135 pcf. ALL HOLLOW CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, GRADE N, TYPE 1 WITH A MINIMUM ULTIMATE COMPRESSIVE PRISM STRENGTH (f'm) OF 2,000 psi FOR THE MASONRY ASSEMBLAGE.
2. MORTAR AT ALL EXTERIOR WALLS SHALL BE TYPE "S" MORTAR. MORTAR AT MASONRY VENEER SHALL BE TYPE "N" MORTAR. ALL MORTAR SHALL CONFORM TO ASTM C270. MASONRY CEMENT SHALL NOT BE USED FOR MORTAR.
3. ALL GROUT SHALL BE READY-MIX CONCRETE & HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2,000 psi.
4. ALL CMU BOND BEAM UNITS SHALL BE REINFORCED WITH ONE #4 BAR, UNLESS NOTED OTHERWISE. PROVIDE CORNER BARS AND LAP BOND BEAM REINFORCING 48 BAR DIAMETERS.
5. ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60.
6. ALL BOLTS, ANCHORS, REINFORCEMENT AND EMBEDDED ITEMS SHALL BE GROUTED IN PLACE.
7. ALL REINFORCING BAR SPLICES SHALL BE 48 BAR DIAMETERS, EXCEPT AS NOTED OTHERWISE.
8. MASONRY WALL HORIZONTAL JOINT REINFORCEMENT SHALL BE A MINIMUM 9 GA. HOT-DIP GALVANIZED WELDED STEEL LADDER TYPE WIRE CONFORMING TO ASTM A153. SPACE HORIZONTAL JOINT REINFORCEMENT 16" O.C. VERTICALLY, UNLESS NOTED OTHERWISE.
9. PROVIDE (1) VERTICAL BAR EACH CELL ADJACENT TO CONTROL JOINTS IN WALLS. PROVIDE (1) VERTICAL BAR IN EACH CELL FOR THE FIRST TWO CELLS AT ENDS OF WALLS AND WALL CORNERS. VERTICAL BARS SHALL MATCH REINFORCEMENT FOR REMAINDER OF WALL.
10. PROVIDE CONTROL JOINTS IN CMU WALLS WHERE SHOWN ON ARCHITECTURAL DRAWINGS. PLACE JOINTS FOR EXTERIOR CMU WALLS MAXIMUM ±24'-0" O.C.

C2 CONCRETE MASONRY GENERAL NOTES1
1" = 1'-0"

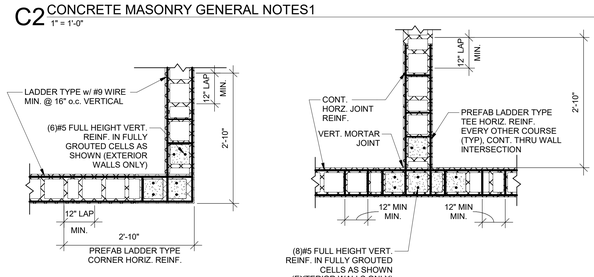


NOTE:
SEE DETAIL A2/S-850 FOR MORE INFORMATION

C1 SECTION ABOVE DOOR
3/4" = 1'-0"

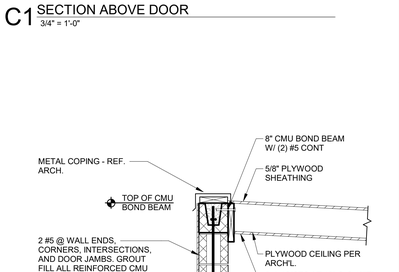
REFUSE WALL FOOTING SCHEDULE				
MARK	W (WIDTH)	T (DEPTH)	RT (TRANSVERSE BARS)	RL (LONGITUDINAL BARS)
WF-1	3'-0"	1'-0" MIN	SEE DETAIL D2/S-402	SEE DETAIL D2/S-402
WF-2	4'-6"	1'-0" MIN	SEE DETAIL D2/S-402	SEE DETAIL D2/S-402
WF-3	6'-3"	1'-0" MIN	#5 AT 12" O.C. TOP AND BOTTOM	#5 AT 12" O.C. TOP AND BOTTOM

C5 REFUSE WALL FOOTING SCHEDULE
N.T.S.

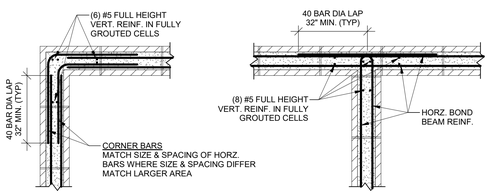


NOTE:
1. CORNER/TEE INTERSECTION REINF. SHALL BE LAPPED WITH THE TYPICAL LADDER TYPE HORIZ. REINF. AND EXTEND A MINIMUM OF 32" IN EACH DIRECTION AT THE INTERSECTION.

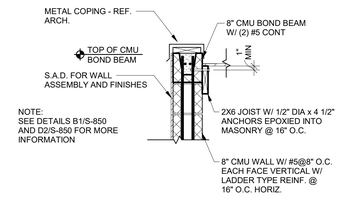
B2 CMU CORNER DETAILS
3/4" = 1'-0"



B1 SECTION AT WALL
3/4" = 1'-0"

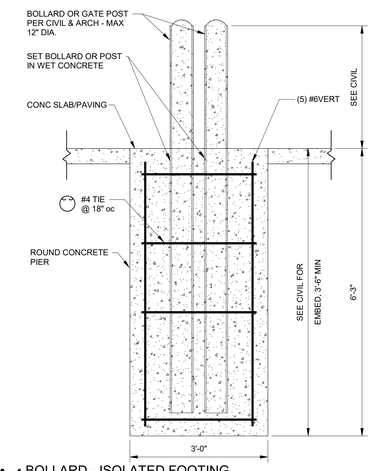


A2 MASONRY BOND BEAM CORNER DETAILS
3/4" = 1'-0"

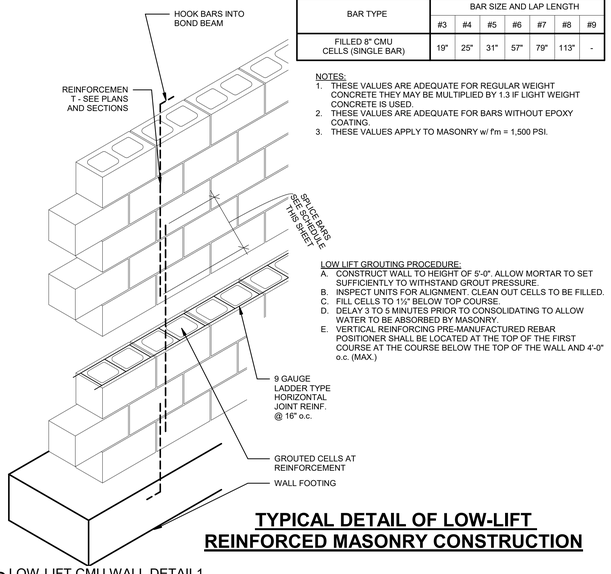


NOTE:
SEE DETAILS B1/S-850 AND D2/S-850 FOR MORE INFORMATION

A1 SECTION AT ROOF
3/4" = 1'-0"



A4 BOLLARD - ISOLATED FOOTING
3/4" = 1'-0"



MINIMUM REINFORCING LAP LENGTH SCHEDULE							
BAR TYPE	BAR SIZE AND LAP LENGTH						
	#3	#4	#5	#6	#7	#8	#9
FILLED 8" CMU CELLS (SINGLE BAR)	19"	25"	31"	57"	79"	113"	-

NOTES:
1. THESE VALUES ARE ADEQUATE FOR REGULAR WEIGHT CONCRETE THEY MAY BE MULTIPLIED BY 1.3 IF LIGHT WEIGHT CONCRETE IS USED.
2. THESE VALUES ARE ADEQUATE FOR BARS WITHOUT EPOXY COATING.
3. THESE VALUES APPLY TO MASONRY w/ f'm = 1,500 PSI.

LOW LIFT GROUTING PROCEDURE:
A. CONSTRUCT WALL TO HEIGHT OF 5'-0", ALLOW MORTAR TO SET SUFFICIENTLY TO WITHSTAND GROUT PRESSURE.
B. INSPECT UNITS FOR ALIGNMENT. CLEAN OUT CELLS TO BE FILLED.
C. FILL CELLS TO 1½" BELOW TOP COURSE.
D. DELAY 3 TO 5 MINUTES PRIOR TO CONSOLIDATING TO ALLOW WATER TO BE ABSORBED BY MASONRY.
E. VERTICAL REINFORCING PRE-MANUFACTURED REBAR POSITIONER SHALL BE LOCATED AT THE TOP OF THE FIRST COURSE AT THE COURSE BELOW THE TOP OF THE WALL AND 4'-0" o.c. (MAX.)

TYPICAL DETAIL OF LOW-LIFT REINFORCED MASONRY CONSTRUCTION

A3 LOW-LIFT CMU WALL DETAIL1
3/4" = 1'-0"

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www.ctsaz.com

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PROJECT NUMBER:	23-0502
PROJECT ENGINEER:	FDR
PROJECT MANAGER:	RAD
PROJECT DRAFTER:	MJN

MONTANA THOMAS R. MORRIS 23397PE REGISTERED PROFESSIONAL ENGINEER 10-23-25

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

CHICK-FIL-A CUSTER & WASHINGTON

2770 N WASHINGTON ST
HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
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REVISION SCHEDULE

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CONSULTANT PROJECT #	LAX22-0129-01
DATE	03/01/2024
DRAWN BY	MJN

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SHEET
REFUSE ENCLOSURE PLANS & DETAILS

SHEET NUMBER
S-850

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20-LS-05484-S-850-REFUSE ENCLOSURE PLANS & DETAILS

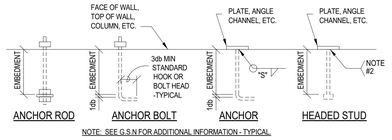
	CLASS B TENSION SPLICE LENGTHS						COMP. BARS	
CONC PSI	f'c=2,500/3,000 PSI		f'c = 4,000 PSI		f'c = 5,000 PSI		f'c = ≥3,000	
BAR LOCATION / SIZE (METRIC)	REGULAR	TOP	REGULAR	TOP	REGULAR	TOP	STD LAP	ENCLOSED W/ SPIRAL TIES
#3 (10)	24"	31"	19"	24"	17"	22"	12"	12"
#4 (13)	32"	41"	25"	32"	22"	29"	15"	12"
#5 (16)	39"	51"	31"	40"	28"	36"	19"	14"
#6 (19)	47"	61"	37"	48"	33"	43"	23"	17"
#7 (22)	69"	89"	54"	70"	49"	63"	26"	20"
#8 (25)	78"	102"	62"	80"	55"	72"	30"	23"
#9 (29)	88"	115"	70"	91"	63"	81"	34"	25"
#10 (32)	99"	129"	79"	102"	70"	91"	38"	28"
#11 (36)	110"	143"	87"	113"	78"	101"	42"	31"

NOTES:
1. TOP BARS ARE ANY HORIZONTAL BARS PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.
2. LAP SPLICES SHALL BE CLASS "B" TENSION LAP SPLICES PER LATEST EDITION OF ACI 318 UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS OR SCHEDULES.
3. CONTACT STRUCTURAL ENGINEER IF CLEAR SPACING OF REINFORCEMENT IS LESS THAN OR EQUAL TO 2 BAR DIAMETERS (2db), OR IF CLEAR COVER IS LESS THAN THE BAR DIAMETER (db).
4. THIS TABLE IS BASED ON NORMAL WEIGHT CONCRETE.
5. FOR ADDITIONAL INFORMATION, SEE G.S.N., PLANS, SCHEDULES AND DETAILS.

C4 LAP SCHEDULE FOR REINFORCING STEEL IN CONC.
N.T.S.

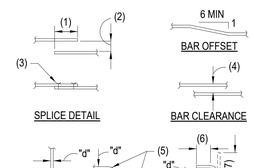
BOLT DIAMETER (db)	VERT BOLT EMBEDMENT LENGTH	HORIZ BOLT EMBEDMENT LENGTH	ANCHOR FILLET WELD SIZE, "S".
1/2"	6"	4"	1/4"
5/8"	6"	4"	5/16"
3/4"	7"	5"	5/16"
7/8"	8"	6"	5/16"
1"	9"	7"	3/8"
1 1/8"	10"	8"	-----
1 1/4"	11"	9"	-----

NOTES:
1. PROVIDE ANCHORS, ANCHOR RODS AND ANCHOR BOLTS PER THIS SCHEDULE UNLESS NOTED OTHERWISE ON PLANS, SCHEDULES OR DETAILS.
2. AUTOMATIC WELDED TO DEVELOP FULL CAPACITY OF HIGH STRENGTH HEADED STUDS.
3. THICKNESS OF DRYPACK DOES NOT APPLY TOWARDS EMBEDMENT.
4. BOLT/PLATE EDGE CLEARANCES PER THE FOLLOWING - TYP U.N.O.:
   3/4" DIA OR LESS - 1 1/4" 7/8" DIA ------ 1 1/2" 1" DIA ------- 1 3/4" 1 1/8" DIA ------ 2" 1 1/4" DIA ----- 2 1/4" OVER 1 1/4" DIA – 1.75xDIA



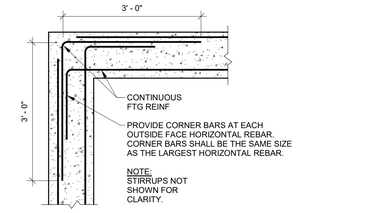
NOTE: SEE G.S.N FOR ADDITIONAL INFORMATION - TYPICAL

C3 TYPICAL ANCHOR SCHEDULE
N.T.S.

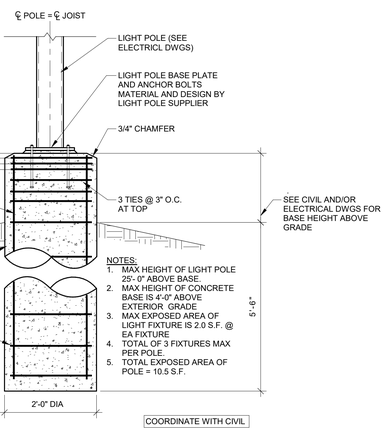


NOTES:
1. LAP - SEE G.S.N.
2. MAXIMUM 1/5 LAP BUT NOT MORE THAN 6".
3. WIRE TIES.
4. 1d (1" MINIMUM).
5. RADIUS=3d FOR BARS NOT OVER #8; 4d FOR #9, #10 AND #11 BARS; 5d FOR #14 AND #18 BARS. 5d FOR ALL GRADE 40 BARS WITH 180 DEGREE HOOK.
6. 4d (4" MINIMUM).
7. 12d (90 DEGREE HOOK).
8. 6d (4" MINIMUM).
9. 135 DEGREE BEND.
10. BEND AROUND 1 1/2" PIN FOR #3 BARS. BEND AROUND 2" PIN FOR #4 BARS. BEND AROUND 2 1/2" PIN FOR #5 BARS.
11. ROTATE TIE LOCATION 90 DEGREES EACH COURSE.

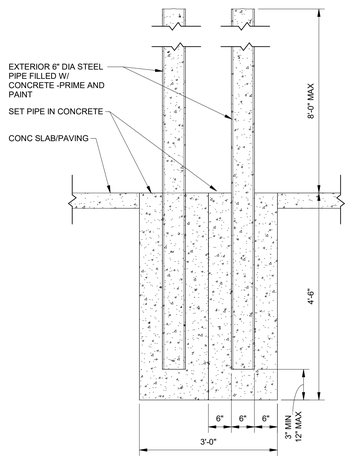
C2 TYPICAL CONCRETE REINFORCING
N.T.S.



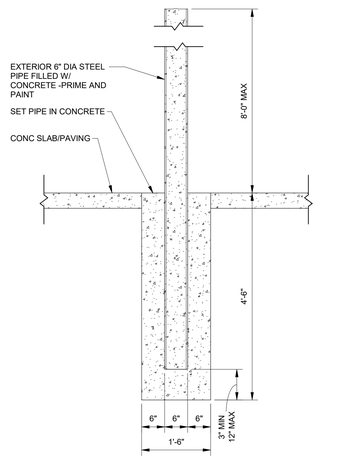
C1 TYPICAL CONTINUITY CORNER
3/4" = 1'-0"



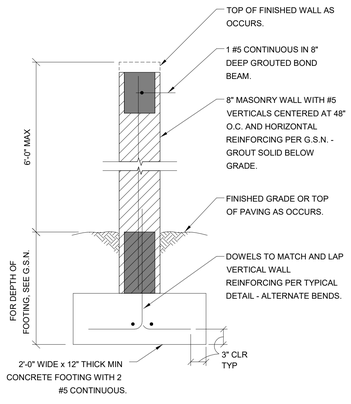
B4 LIGHT POLE BASE CONNECTION
3/4" = 1'-0"



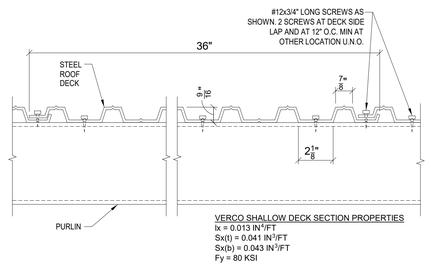
B3 DOUBLE GATE POST FOUNDATION
3/4" = 1'-0"



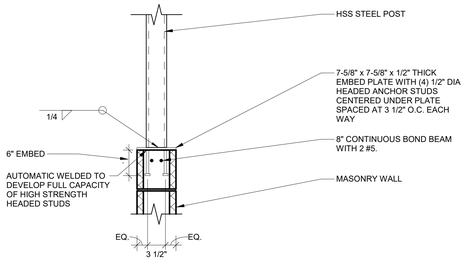
B2 GATEPOST FOUNDATION
3/4" = 1'-0"



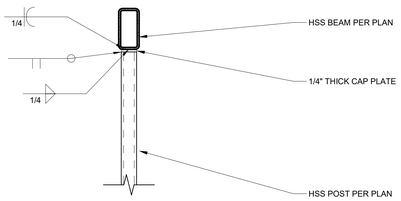
A5 6'-0" MAX 8" MASONRY FREE-STANDING WALL FOOTING
N.T.S.



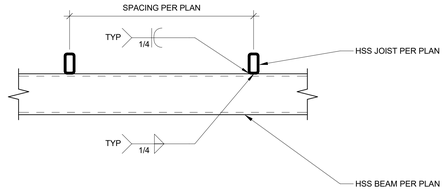
A4 26 GAGE STEEL ROOF DECK
1" = 1'-0"



A3 STEEL POST AT MASONRY WALL
1" = 1'-0"



A2 STEEL BEAM AT STEEL COLUMN
1" = 1'-0"



A1 STEEL BEAM AT STEEL BEAM
N.T.S.

Chick-fil-A
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30349-2998

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PROJECT NUMBER:	23-0502
PROJECT ENGINEER:	FDR
PROJECT MANAGER:	RAD
PROJECT DRAFTER:	MJN

MONTANA
THOMAS R. MORRIS
23393PE
REGISTERED PROFESSIONAL ENGINEER
10-23-25

CHICK-FIL-A
CUSTER & WASHINGTON
2770 N WASHINGTON ST
HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
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SHEET
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20-LS-05484-S-851-REFUSE ENCLOSURE DETAILS

C03300: FOOTINGS/ SLAB ON GRADE
PART 1 - GENERAL

1.1 SUMMARY
A. This Section specifies cast-in place concrete, including formwork, reinforcement, concrete materials, mixture design, placement procedures, and finishes.

1.2 SUBMITTALS
A. Product Data: For each type of product indicated.
B. Design Mixtures: For each concrete mixture.
C. Shop Drawings: For steel reinforcement.
D. Material: test reports & certificates.

1.3 QUALITY ASSURANCE
A. Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products and that complies with ASTM C 94/C 94M requirements for production facilities and equipment.
1. Manufacturer certified according to NRMCA's "Certification of Ready Mixed Concrete Production Facilities."
B. ACI Publications: Comply with the following unless modified by requirements in the Contract Documents:
1. ACI 301, "Specification for Structural Concrete," Sections 1 through 5.
C. Preinstallation Conference: Conduct conference at Project site.

PART 2 - PRODUCTS (C03000)

2.1 FORM-FACING MATERIALS
A. Wood Form Materials: At the discretion of the contractor.

2.2 STEEL REINFORCEMENT
A. Reinforcing Bars: ASTM A 615/A 615M, Grade 60 (Grade 420), deformed.
B. Plain-Steel Welded Wire Reinforcement: ASTM A1064/A1064M, plain, fabricated from as-drawn steel wire into flat sheets.
C. Bar Supports: Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars and welded wire reinforcement in place. Manufacture bar supports from steel wire, plastic, or precast concrete according to CRSI's "Manual of Standard Practice."

2.3 EMBEDDED ITEMS
A. All embedded rough hardware shall be of material and grade as indicated in the drawings unless otherwise noted.
B. All embedded rough hardware in contact, or potentially in contact, with preservative-treated lumber to AWPA UC3 or less shall be hot-dip galvanized in accordance with ASTM A153.
C. All embedded rough hardware in contact, or potentially in contact, with preservative-treated lumber to a leven in excess of AWPA UC3 shall AISI Type 304 or Type 316 stainless steel.
D. All remaining embedded rough hardware shall be G90 galvanized.

2.4 CONCRETE MATERIALS
A. Cementitious Material: Use the following cementitious materials, of the same type, brand, and source, throughout Project:
1. Portland Cement: ASTM C 150, Type I or II, unless otherwise noted.
B. Normal-Weight Aggregates: ASTM C 33, graded, 3/4-inch (19-mm) nominal maximum coarse-aggregate size.
C. Water: ASTM C 94/C 94M and potable.
D. Air-Entraining Admixture: ASTM C 260.
E. Chemical Admixtures: Provide admixtures certified by manufacturer to be compatible with other admixtures and that will not contribute water-soluble chloride ions exceeding those permitted in hardened concrete. Do not use calcium chloride or admixtures containing calcium chloride.
1. Retarding Admixture: ASTM C 494/C 494M, Type B.
2. Plasticizing and Retarding Admixture: ASTM C 1017/C 1017M, Type II.

2.5 VAPOR RETARDERS
A. Plastic VAPOR RETARDER: 10 mil polyethylene film, U.O.N.
2.6 CURING MATERIALS
A. Absorptive Cover: AASHTO M 182, Class 2, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd. (305 g/sq. m) when dry.
B. Moisture-Retaining Cover: ASTM C 171, polyethylene film or white burlap-polyethylene sheet.
C. Water: Potable.
D. Clear, Waterborne, Membrane-Forming Curing and Sealing Compound: ASTM C 1315, Type 1, Class A

2.7 RELATED MATERIALS
A. Expansion- and Isolation-Joint-Filler Strips: ASTM D 1751, asphalt-saturated cellulosic fiber.

2.8 CONCRETE MIXTURES
A. Prepare design mixtures for each type and strength of concrete, proportioned on the basis of laboratory trial mixture or field test data, or both, according to ACI 301.
B. Proportion normal-weight concrete mixture as follows:
1. Minimum Compressive Strength for footings and slab on grade: 3000 psi at 28 days; all other locations, use 4000 psi, unless noted otherwise.
2. Slump Limit: 4" TO 5", 8" (200 mm) if a plasticizer is used.
3. Air Content: 3 - 6 percent for all exterior concrete.

2.9 CONCRETE MIXING
A. Ready-Mixed Concrete: Measure, batch, mix, and deliver concrete according to ASTM C 94/C 94M and ASTM C 1116, and furnish batch ticket information.
1. When air temperature is between 85 and 90 deg F (30 and 32 deg C), reduce mixing and delivery time from 1-1/2 hours to 75 minutes; when air temperature is above 90 deg F (32 deg C), reduce mixing and delivery time to 60 minutes.

2.10 GROUT
A. Measure, batch, mix, sample and test according to ASTM C476
a. Minimum Compressive Strength: The larger of; 3000 psi at 28 days & minimum compressive strength of concrete, U.O.N.
b. Grout Type: Conventional Grout with Coarse aggregate

PART 3 - EXECUTION

3.1 FORMWORK
A. Design, erect, shore, brace, and maintain formwork according to ACI 301 to support vertical, lateral, static, and dynamic loads, and construction loads that might be applied, until structure can support such loads.
B. Construct formwork so concrete members and structures are of size, shape, alignment, elevation, and position indicated, within tolerance limits of ACI 117.
C. Chamfer exterior corners and edges of permanently exposed concrete.

3.2 EMBEDDED ITEMS
A. Place and secure anchorage devices and other embedded items required for adjoining work that is attached to or supported by cast-in-place concrete. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.

3.3 VAPOR RETARDERS
A. Plastic Vapor Retarders: Place, protect, and repair vapor retarders according to ASTM E 1643 and manufacturer's written instructions.
1. Lap joints 6 inches (150 mm) and seal with manufacturer's recommended tape.

3.4 STEEL REINFORCEMENT
A. General: Comply with CRSI's "Manual of Standard Practice" for placing reinforcement.
1. Do not cut or puncture vapor retarder. Repair damage and reseal vapor retarder before placing concrete.
B. Clear Concrete Cover: U.O.N. on drawings, maintain coverage to face of reinforcing bars as follows:

Location	Clear Cover
Cast against earth:	3 in.
Formed & exposed to earth or weather:	
Slabs, walls	2 in. (1-1/2 in. for #5 & smaller)
Beam ties	1-1/2 in.
Beam primary reinf.	1-1/2 in.
Not exposed to earth or weather:	
Slabs, walls, joists	3/4 in.

Note: Tolerances per ACI 117

3.5 JOINTS
A. General: Construct joints true to line with faces perpendicular to surface plane of concrete.
B. Construction Joints: Install so strength and appearance of concrete are not impaired, at locations indicated or as approved by Architect.
C. Contraction Joints in Slabs-on-Grade: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of concrete thickness as follows:
1. Grooved Joints: Form contraction joints after initial floating by grooving and finishing each edge of joint to a radius of 1/8 inch (3.2 mm). Repeat grooving of contraction joints after applying surface finishes. Eliminate groover tool marks on concrete surfaces.
2. Sawed Joints: Form contraction joints with power saws equipped with shatterproof abrasive or diamond-rimmed blades. Cut 1/8-inch- (3.2-mm-) wide joints into concrete when cutting action will not tear, abrade, or otherwise damage surface and before concrete develops random contraction cracks.
D. Isolation Joints in Slabs-on-Grade: After removing formwork, install joint-filler strips at slab junctions with vertical surfaces, such as column pedestals, foundation walls, grade beams, and other locations, as indicated.

3.6 CONCRETE PLACEMENT
A. Before placing concrete, verify that installation of formwork, reinforcement, and embedded items is complete and that required inspections have been performed.
B. Do not add water to concrete during delivery, at the project site or during placement unless approved by the architect / engineer.
C. Deposit concrete continuously in one layer or in horizontal layers of such thickness that no new concrete will be placed on concrete that has hardened enough to cause seams or planes of weakness. If a section cannot be placed continuously, provide construction joints as indicated. Deposit concrete to avoid segregation.
1. Consolidate placed concrete with mechanical vibrating equipment according to ACI 301.
D. Cold-Weather Placement: Comply with ACI 306.1.
E. Hot-Weather Placement: Comply with ACI 301.
F. Specified overall values for flatness/levelness shall comply with ACI 117 "Flat" floor surface classification, U.O.N.:
1. Specified overall flatness: 35
2. Specified overall levelness: 25
3. Specified Floor Flatness at recessed slabs: 50
4. Floor surfaces shall be measured within 24 hours after completion of slab concrete finishing operations and before removal of any supporting shores. Measurements shall be reported to key parties as soon as possible, but not later than 72 hours after installation.
a. Inform SEOR immediatley for remediation when any distance between wall(s) bottom plate and slab will exceed 1/4"

3.7 FINISH FORMED SURFACES
A. Rough-Formed Finish: As-cast concrete texture imparted by form-facing material with tie holes and defects repaired and patched. Remove fins and other projections that exceed specified limits on formed-surface irregularities.
1. Apply to concrete surfaces not exposed to public view.
B. Smooth-Formed Finish: As-cast concrete texture imparted by form-facing material, arranged in an orderly and symmetrical manner with a minimum of seams. Repair and patch tie holes and defects. Remove fins and other projections that exceed specified limits on formed-surface irregularities.
1. Apply to concrete surfaces exposed to public view.
C. Related Unformed Surfaces: At tops of walls, horizontal offsets, and similar unformed surfaces adjacent to formed surfaces, strike off smooth and finish with a texture matching adjacent formed surfaces. Continue final surface treatment of formed surfaces uniformly across adjacent unformed surfaces, unless otherwise indicated.

3.8 FINISHING FLOORS AND SLABS
A. General: Comply with ACI 302.1R recommendations for screeding, restraightening, and finishing operations for concrete surfaces. Do not wet concrete surfaces.
B. Wood Float Finish: Areas scheduled to receive quarry or ceramic tile are to be finished to a slightly gritty surface texture with straight continuous strokes with a stiff bristle push broom. do not steel trowel any areas to receive tile.
C. Broom Finish: Apply a broom finish to exterior concrete platforms, steps, and ramps, and elsewhere as indicated.

3.9 CONCRETE PROTECTING AND CURING
A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection and ACI 301 for hot-weather protection during curing.
B. Evaporation Retarder: Apply evaporation retarder to unformed concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching 0.2 lbs/sq. ft., x h (1 kg/sq. m x h) before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete, but before float finishing.
C. Cure concrete according to ACI 308.1, by one or a combination of the following methods:
1. Moisture Curing: Keep surfaces continuously moist for not less than seven days.
2. Moisture-Retaining-Cover Curing: Cover concrete surfaces with moisture-retaining cover for curing concrete, placed in widest practicable width, with sides and ends lapped at least 12 inches (300 mm), and sealed by waterproof tape or adhesive. Cure for not less than seven days. Immediately repair any holes or tears during curing period using cover material and waterproof tape.
3. Curing and Sealing Compound: Apply uniformly to floors and slabs indicated in a continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Repeat process 24 hours later and apply a second coat. Maintain continuity of coating and repair damage during curing period.

3.10 CONCRETE SURFACE REPAIRS
A. Allow Owner to inspect concrete surfaces immediately upon removal of forms.
B. Defective Concrete: Repair and patch defective areas when approved by Owner.
C. Repair or replacement of defective concrete will be determined by the Owner.
D. Do not patch, fill, touch-up, repair or replace exposed concrete except upon express direction of Owner for each individual area.
E. Honeycomb or embedded debris in concrete is not acceptable. Notify owner upon discovery.

3.11 FIELD QUALITY CONTROL
A. Testing and Inspecting: Owner will engage a qualified independent testing and inspecting agency to perform field tests and inspections and prepare test reports.
1. Testing Services: Tests shall be performed according to ACI 301.

END OF SECTION C03300

C05000: STRUCTURAL AND MISCELLANEOUS STEEL
A: STRUCTURAL STEEL
PART 1 - GENERAL

1.1 SUMMARY
A. Section includes structural steel and grout.

1.2 DEFINITIONS
A. Structural Steel: Elements of structural-steel frame, as classified by AISC 303, "Code of Standard Practice for Steel Buildings and Bridges."
1. All structural steel work shall conform to the AISC Manual of Steel Construction Thirteenth Edition "Allowable Stress Design".

1.3 PERFORMANCE REQUIREMENTS
A. Connections: Provide details of simple shear connections required by the Contract Documents to be selected or completed by structural-steel fabricator to withstand loads indicated and comply with other information and restrictions indicated.
1. Select and complete connections using schematic details indicated and AISC 360.
2. Use ASD; data are given at service-load level.
B. Moment Connections: Type FR, fully restrained.

1.4 ACTION SUBMITTALS
A. Product Data: For each type of product indicated.
B. Shop Drawings: Show fabrication of structural-steel components.
1. Submit Shop Drawings confirming that the connections have been designed in accordance with the AISC Codes specified. The Shop Drawings shall include complete details and schedules for fabrication and assembly of structural steel members. Reproduction of structural drawings for shop drawings is not permitted.

1.5 INFORMATION SUBMITTALS
A. Qualification Data: For qualified Installer, fabricator, and testing agency.
B. Welding certificates.
C. Mill test reports for structural steel, including chemical and physical properties.
D. Source quality-control reports.

1.6 QUALITY ASSURANCE
A. Fabricator Qualifications: A qualified fabricator that participates in the AISC Quality Certification Program and is designated an AISC-Certified Plant, Category STD.
B. Installer Qualifications: 5 years experience with projects of similar complexity.
C. Welding Qualifications: Qualify procedures and personnel according to AWS D1.1/D1.1M, "Structural Welding Code - Steel."
D. Comply with applicable provisions of the following specifications and documents:
1. AISC 303.
2. AISC 360.
3. RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts."

PART 2 - PRODUCTS

2.1 STRUCTURAL - STEEL MATERIALS
A. W-Shapes: ASTM A 992/A 992M.
B. Channels, Angles, M , S-Shapes: ASTM A 36/A 36M.
C. Plate and Bar: ASTM A 36/A 36M.
D. Cold-Formed Hollow Structural Sections: ASTM A 500, Grade B, structural tubing.
E. Steel Pipe: ASTM A 53/A 53M, Type E or S, Grade B.
F. Welding Electrodes: Comply with AWS requirements.

2.2 BOLTS, CONNECTORS, AND ANCHORS
A. High-Strength Bolts, Nuts, and Washers: ASTM A 325, Type 1, heavy-hex steel structural bolts; ASTM A 563, Grade C, heavy-hex carbon-steel nuts; and ASTM F 436, Type 1, hardened carbon-steel washers; all with plain finish, U.O.N.
1. Direct-Tension Indicators: ASTM F 959, Type 325, compressible-washer type with plain finish.
B. High-Strength Bolts, Nuts, and Washers: ASTM A 490, Type 1, heavy-hex steel structural bolts or tension-control, bolt-nut-washer assemblies with splined ends; ASTM A 563, Grade DH, (ASTM A 563M, Class 10S) heavy-hex carbon-steel nuts; and ASTM F 436 (ASTM F 436M), Type 1, hardened carbon-steel washers with plain finish, U.O.N.
1. Direct-Tension Indicators: ASTM F 959, Type 490, compressible-washer type with plain finish.
C. Headed Anchor Rods: ASTM F 1554, Grade 36, weldable, straight, U.O.N.
1. Finish: G90 galvanized U.O.N.
2. Embed 12 Bolt diameters or 12" minimum U.O.N.
D. Threaded Rods: ASTM F 1554 Grade 36, U.O.N.
1. Finish: G90 galvanized U.O.N.
2. Embed 12 Bolt diameters or 12" minimum U.O.N.

2.3 PRIMER
A. Low-Emitting Materials: Paints and coatings shall comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."
B. Primer: SSPC-Paint 25, Type II, zinc oxide, alkyd, linseed oil primer.
C. Primer: Fabricator's standard lead- and chromate-free, nonasphaltic, rust-inhibiting primer complying with MPI#79 and compatible with topcoat.

2.4 GROUT
A. Nonmetallic, Shrinkage-Resistant Grout: ASTM C 1107, factory-packaged, nonmetallic aggregate grout, noncorrosive and nonstaining, mixed with water to consistency suitable for application and a 30-minute working time.

2.5 FABRICATION
A. Structural Steel: Fabricate and assemble in shop to greatest extent possible. Fabricate according to AISC's "Code of Standard Practice for Steel Buildings and Bridges" and AISC 360.
B. Shear Connectors: Prepare steel surfaces as recommended by manufacturer of shear connectors. Use automatic end welding of headed-stud shear connectors according to AWS D1.1/D1.1M and manufacturer's written instructions (Do not use single fin plate).

2.6 SHOP CONNECTIONS
A. High-Strength Bolts: Shop install high-strength bolts according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts" for type of bolt and type of joint specified.
1. Joint Type: Snug tightened.
2. Minimum diameter of bolts shall be ¾", maximum diameter shall be 1 1/8"unless noted otherwise on drawings.
3. Provide at least (2) two bolts per connection.
B. Weld Connections: Comply with AWS D1.1/D1.1M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting welding work.

2.7 COATINGS
A. SHOP PRIMING
a. Shop prime steel surfaces except the following:
• Surfaces receiving galvanizing.
• Surfaces to be field welded.
• Surfaces to be high-strength bolted with slip-critical connections.
b. Surface Preparation: Clean surfaces to be painted. Remove loose rust and mill scale and spatter, slag, or flux deposits. Prepare surfaces according to the following specifications and standards:
• SSPC-SP 2, "Hand Tool Cleaning."
• SSPC-SP 3, "Power Tool Cleaning."
c. Priming: Immediately after surface preparation, apply primer according to manufacturer's written instructions and at rate recommended by SSPC to provide a minimum dry film thickness of 2.5 mils (0.063 mm). Use priming methods that result in full coverage of joints, corners, edges, and exposed surfaces.
B. SHOP GALVANIZING
a. Shop galvanize all steel surfaces to be embedded in concrete. For partially-embedded items (e.g. posts with baseplates), galvanize to 6" above the embedment depth.
b. Acceptable galvanizing methods:
• Hot-dip galvanize (HDG) to G90 designation per ASTM A653
Cold-spray galvanizing product and application technique in conformance with ASTM A-780. Acceptable products include (but are not limited to):
1. ZRC Cold Galvanizing Compound

2.8 SOURCE QUALITY CONTROL
A. Testing Agency: Owner will engage an independent testing and inspecting agency to perform shop tests and inspections and prepare test reports.
1. Provide testing agency with access to places where structural-steel work is being fabricated or produced to perform tests and inspections.
B. Correct deficiencies in Work that test reports and inspections indicate does not comply with the Contract Documents.
C. Bolted Connections: Shop-bolted connections will be tested and inspected according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts."
D. Welded Connections: In addition to visual inspection, shop-welded connections will be tested and inspected according to AWS D1.1/D1.1M and the following inspection procedures, at testing agency's option:
1. Liquid Penetrant Inspection: ASTM E 165.
2. Magnetic Particle Inspection: ASTM E 709; performed on root pass and on finished weld. Cracks or zones of incomplete fusion or penetration will not be accepted.
3. Ultrasonic Inspection: ASTM E 164.
4. Radiographic Inspection: ASTM E 94.

PART 3 -EXECUTION

3.1 EXAMINATION
A. A. Verify, with steel Erector present, elevations of concrete-and masonry-bearing surfaces and locations of anchor rods, bearing plates, and other embedments for compliance with requirements.
B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 ERECTION
A. Set structural steel accurately in locations and to elevations indicated and according to AISC 303 and AISC 360.
B. Base Bearing and Leveling Plates: Clean concrete-and masonry-bearing surfaces of bond-reducing materials, and roughen surfaces prior to setting plates. Clean bottom surface of plates.
1. Set plates for structural members on wedges, shims, or setting nuts as required.
2. Weld plate washers to top of baseplate.
3. Snug-tighten typical base plate anchor rods, Pretension anchor rods in moment frames after supported members have been positioned and plumbed. Do not remove wedges or shims but, if protruding, cut off flush with edge of plate before packing with grout.
4. Promptly pack grout solidly between bearing surfaces and plates so no voids remain. Neatly finish exposed surfaces; protect grout and allow to cure. Comply with manufacturer's written installation instructions for shrinkage-resistant grouts.
C. Maintain erection tolerances of structural steel within AISC's "Code of Standard Practice for Steel Buildings and Bridges."

3.3 FIELD CONNECTIONS
A. A. High-Strength Bolts: Install high-strength bolts according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts" for type of bolt and type of joint specified.
1. Joint Type: Snug tightened.
B. Weld Connections: Comply with AWS D1.1/D1.1M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting welding work.
1. Comply with AISC 303 and AISC 360 for bearing, alignment, adequacy of temporary connections, and removal of paint on surfaces adjacent to field welds.

3.4 FIELD QUALITY CONTROL
A. Testing Agency: Owner will engage a qualified independent testing and inspecting agency to inspect field welds and high-strength bolted connections.
B. Bolted Connections: Bolted connections will be tested and inspected according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts."
C. Welded Connections: Field welds will be visually inspected according to AWS D1.1/D1.1M.
1. In addition to visual inspection, field welds will be tested and inspected according to AWS D1.1/D1.1M and the following inspection procedures, at testing agency's option:
a. Liquid Penetrant Inspection: ASTM E 165.
b. Magnetic Particle Inspection: ASTM E 709; performed on root pass and on finished weld. Cracks or zones of incomplete fusion or penetration will not be accepted.
c. Ultrasonic Inspection: ASTM E 164.
d. Radiographic Inspection: ASTM E 94.
Correct deficiencies in Work that test reports and inspections indicate does not comply with the Contract Documents.

END OF SECTION C05000A

C05000: STRUCTURAL AND MISCELLANEOUS STEEL
B: SURE-BOARD® SERIES 200 PANEL FOR SHEAR AND SHEATHING
PART 1 - GENERAL

1.01 WORK INCLUDED
A. Inclusion:
1. The extent of SURE-BOARD® shear panel/sheathing is shown on the drawings, including basic layout, gypsum, non-combustible or combustible sheathing materials to be laminated to our steel sheet, fastener type, spacing for attachment of Series 200/200W and Series 200S Sure-Board® that may be required for interior and exterior use.

1.02 RELATED WORK SPECIFIED ELSEWHERE.
A. Related Sections:
1. Structural Steel Framing: Section 05400.
2. Wood framing: Section 06000.
3. Rigid insulation: Section 07240.
4. Sheet Metal: Section 07600.
5. Acoustical Batts: Section 07500.
6. Gypsum Board: Section 09226

1.03 CODE COMPLIANCE
A. Codes and standards:
1. AISI, North American Specifications for the Design of Cold-Formed Steel Structural Members, 2010 Edition.
2. 2009/2012/2015/2018 IBC/2009/2012/2015/2018 IRC/ASCE/SEI 7/2013/2016 CBC 2014/2017 LABC.
3. ASTM, designations as specified.
4. IAPMO-ES Evaluation Report Number ER-0126 for Steel and Wood framing
5. ICC-ES Evaluation Report Number ER 5762 for steel framing.
6. MEA New York City Building Department.
7. Florida State/Miami-Dade Building Department and Codes

1.04 QUALITY ASSURANCE
A. Annually Inspected/Approved Manufacturing:
1. Sure-Board® Shear Panel Quality Assurance Manual.

1.05 PERFORMANCE REQUIREMENTS
A. Shear wall shear capacity:
1. The gage for framing and attachment of the Sure-Board® Shear panel is designed by the EOR (engineer of record) to provide a panel shear capacity in accordance with IAPMO-ES evaluation report number ER-0126/DSA IR A-5/Los Angeles City Research Reports 25461/Miami-Dade/City of New York and State of Florida. Whichever should apply to the specific project and Geographical or Seismic Zone or Wind Zone location.
2. For other similar materials, stated load capacities or methods of attachment to framing studs/track/plates other than those stated on these approvals for Sure-Board® products will be acceptable as an equal.
B. Fire Rated Use:
1. Sure-Board® Series 200/200W and 200S Sure-Board®panels have been fire tested/reported by ITS Intertek Testing Laboratories and Fire-Stance certified to be used on 1 and 2 hour fire rated, load bearing and non-load bearing CFS/Wood Framed assemblies for interior and exterior use.

1.06 SUBMITTALS
A. Shop drawings:
1. Shear wall layout, framing and supports, with dimensions and sections.
2. Shear wall/Diaphragm load tables using Sure-Board®Series 200/200W/200S panels, fastener size/type and spacing will be attached to designed shear walls that define the size of required collector posts for shear, along with required wall framing hardware, size or gage and on center stud/joist spacing for Vertical/Diaphragm and Concentrated loads as well as lateral load resistance that have been engineered.
3. Details of proprietary or non-proprietary components if included.

1.07 PRODUCT DELIVERY, STORAGE AND HANDLING
A. Sure-Board®panel:
1. All Sure-Board® panels shall be packaged and handled to prevent damage during shipping and unloading.
2. Cover Sure-Board® panels with waterproof material and ventilate to avoid condensation before installation.
3. Store Sure-Board® off ground with one end elevated for moisture drainage.
4. Do not bend sheet steel or break/mar gypsum board sheet while handling. If damage to panel should occur, repair of panel may be approved by manufacturer.

PART 2 - PRODUCTS

2.01 MATERIALS, FASTENERS, ADHESIVE AND FINISHED PANELS
A. Galvanized Steel:
1. No.22 gage 0.027 inch (0.686mm) base-metal thickness minimum per ASTM A 653 CS Grade 33/hot dipped galvanized G40 minimum per ASTM A 924.

B. Wallboard/Fiber Cement Sheathing Compliance:
1. Wallboard complies with ASTM C 1325, C 1369, C 1177, C 1278, C 1288, C 1185 and C 1186 including MgO/Fiber Cement Sheathing.

C. Fasteners:
1. The fasteners used to fasten the Sure-Board®Series 200/200S Structural Panels to the steel framing are self-drilling/self-tapping pilot point flat head screws, #8 minimum diameter 0.138-inch (3.5 mm), with a minimum 0.3145-inch (8.0 mm) head diameter,1.5-inch (31.7 mm) long, and a 3/8-inch minimum drill tip, complying with SAE J78, ASTM C 1513 and ASTM C 954. ESR-1271 by John Grabber & Assoc. or equal. Series 200S should use #8 X 1-5/8" lg. Winged Driller Grabber Super Drive LOX drive screws or equal. See ICC-ES Report ESR-1271. Series 200W Structural Panels when fastened to steel framing are attached with #10 X 3/4" minimum self-drilling/self-tapping pan-head screws. For wood framing the Sure-Board® Series 200 Structural Panels are fastened with #8 X 2" minimum wood screws. Sure-Board® Series 200W Structural Panels when attached to wood framing are fastened with 10d X1 ¼" minimum smooth plywood nails.
D. Adhesives:
1. The non-structural adhesive used to attach the steel to the gypsum wallboard or other non-structural sheathing shall be a water soluble, non-combustible type adhesive.
E. Finished Sure-Board® Sheet Steel Panels:
1. The sheet steel is No. 22 gage /0.027 inch (0.686 mm) minimum base-metal thickness complying with ASTM A 653 CS, Grade 33, and is provided with a G40 minimum hot-dipped galvanized coating conforming to ASTM A 924. Available width of 48 inches (1219 mm) and lengths of 4feet through 12 feet (2438 through 3658 mm). Note: Special cut lengths are available upon request.
F. Finished Sure-Board® Panels:
1. Sure-Board® Series 200 Structural Panels:
Each panel consist of 1/2, 5/8 or 3/4 inch (12.7, 15.9 or 19.1 mm) thick square or tapered-edge Type X or Type C Fire Rated gypsum wallboard or water resistant core complying with ASTM C 1369, fiber reinforced cement board complying with ASTM C 1325 as well as glass mat gypsum substrate complying with ASTM C 1177 and fiber reinforced gypsum panels complying with ASTM C 1278, laminated with water soluble adhesive to steel sheet. The steel sheet is No. 22 gage /0.027 inch (0.686 mm) minimum base- metal thickness, complying with ASTM A 653 CS, Grade 33, and is provided with G40 minimum hot-dipped galvanized coating conforming with ASTM A 924. Available width of 48 inches (1219 mm) and standard lengths of 8 through 12 feet (2438 through 3658 mm).
2. Sure-Board® Series 200W Structural Panels: Each panel consist of a minimum1/8 inch (3.18 mm) thick sheet of medium density fiberboard or non-combustible substrate, laminated with water based adhesive to steel sheet. Series 200S Sheathing Panels: Each panel consists of a minimum .46 inch thick non combustible sheathing laminated with water based adhesive to steel sheet. The sheet steel is No. 20 gage/ 0.33 inch (0.838 mm) minimum base metal thickness for Floor Sheathing and No. 20 gage/0.033 inch (0.838 mm) minimum base metal thickness for Roof Sheathing complying with ASTM A 653 CS, Grade 33, and provided with a G40 minimum hot-dipped galvanized coating conforming to ASTM A 924. Available width of 48 inches (1219 mm) and standard lengths of 4 feet through 4 feet (1219 mm).
Note: Custom lengths of 8 through 12 feet (2438 through 3658 mm) available on request.

Part 3 - INSTALLATION/FASTENERS/CUTTING/REPAIRING SURE-BOARD®

3.01 Installation and Cutting Sure-Board® Series 200/200W/200S
A. Condition of Material Pre-Installation Sure-Board® Series 200/200W and 200S
1. Always install Sure-Board® Series 200 when conditions and material are dry. If the Sure-Board®Series 200 panels are not covered or stored in a dry location, and should get wet due to gypsum products, you keep materials dry at all times, before installation. All gypsum panels are different in their physical composition and are manufactured for specific uses. Follow all appropriate manufacturers recommendations for storage, handling and installation of your Sure-Board®.The steel sheet is always attached against the framing studs to accomplish resistance capacities stated in Manufacturers tables for lateral force resistance.

B. Fasteners and Application for installing Sure-Board® Series 200/200W and 200S
1. Installing Sure-Board® Series 200 only requires the use of standard electric gypsum screw guns, if you intend to use hand fed screws. If you choose to use a collated screw gun, which can be very cost effective, due to the large quantity of fasteners required for some Sure-Board® panels, that is acceptable as well. Note: We have noticed over the years, that when contractors are field installing Sure-Board®, instead of building walls using panelization or a prefabricated system process is commonly performed by an apprentice worker at a lower cost per hour to the contractor. With the collated screw gun application, this method can be very cost effective.
2. One very important requirement when installing Sure-Board® Series 200/200W and 200S, is available, in the required length (per your specific conditions and approved plans).
Important Note: The spacing of the Floor Joist (FJ) or the Roof Rafters (RR) have maximum spacing requirements.
1.) The Series 200S-F ¾" floor sheathing may be installed on FJ/RR at 24" O.C. maximum spacing. Exception: Where FJ do not receive topping such as Gypcrete/ Level Rock, the FJ should be installed at 16" O.C. to accommodate all soft and rigid floor materials
2.) The Series 200S-P ½" roof sheathing must be installed on RR at 16" O.C. maximum spacing. All Series 200S Panels should be installed with staggered joints in each the end of the row at the overhang or rim joist still apply. Occasionally minor cracking may occur in Fiber Cement Sheathing due to handling or excessive weather conditions during assembly and construction. These cracks do not cause any adverse condition to be of concern.
The Series 200 screws must have a longer drill tip (minimum 3/8" long), to avoid the "jacking" of the sheet steel from the stud and track during installation. The longer drill tip screws and a list of many other important tools and fasteners that are suggested for use with Sure-Board® may be attached to this installation letter. If not attached, they are also available on our website at www.sureboard.com and at www.sureboardtools.com. The depth of the head of the bugle head screws into the gypsum that occurs during the installation of the fasteners is adjustable on all standard gypsum screw guns used today. We suggest that the fastener heads be installed flush to the panel face material or just below the surface at the field and perimeter edges, and a minimum of 3/8" setback from all edges of the panel. Sometimes this edge spacing will vary, but as long as the majority of the screws are within ¼" from the edge of the panel, the structural integrity is not compromised. Unlike wood-based products (plywood and OSB), Sure-Board® may have screws added where necessary, if some of the fasteners are over-screwed below the surface of the panel or even have some fasteners installed closer than the recommended 3/8" to center of fastener from the perimeter edge, without compromising the structural integrity of the panel.
Note: If unintentional over-screwing occurs in excess as defined by EOR, additional screws between the existing screws may be added, with no adverse affect to the structural performance of the Sure-Board® panel.

C. Installation of Series 200/200W Panels in Vertical and Horizontal Orientation Recommended Installation of Structural Strapping on the Surface of the Sure-Board® Series 200/200W Panels instead of beneath the Sure-Board® Steel Sheet
1. For installation of Sure-Board® Series 200 and 200W in the Perpendicular or Horizontal Orientation to the framing you must include either blocking or a minimum 1½ inch wide flat strapping that is the same gage as the framing materials field studs and track or field studs if heavier track material is used, at all horizontal or vertical joints of all panels.
Note: When Panels are installed either in the Vertical or Horizontal Orientation to the framing studs, there is No Structural Requirement that the "Butt End" joints of the Sure-Board® Panels Must be Staggered in each Adjoining row to maintain Stated Structural Capacities in our Evaluation Report. The Straight Line Installed Joint of these stacked Panels will allow for a much more efficient framing and finishing process. There are also specific conditions where the engineer may require rail or screw attached surface applied vertical floor to floor strapping. We recommend that those vertical straps be applied over the Sure-Board® Series 200 sheet steel, instead of behind the Sure-Board® directly to the studs. The installation of the straps and fasteners under the Sure-Board® Series 200 panels may cause unsightly bulges in the finish surface.
Note: The standard in the industry for wood construction is for the straps to be applied over the wood shear panels. This method allows the inspector to see the fasteners into the strap during the required inspections. With Sure-Board®, it is preferable for the Sure-Board® sheet steel to be installed flush to the stud surface whenever possible to allow for an even and undisturbed finish to the wall. Installing the straps over the Sure-Board® Series 200 steel panels may be accomplished by first hanging and fastening the Sure-Board® Series 200 panels to the studs. After installation is complete, through the use of a drywall knife or router, score the drywall and remove the screws in the Sure-Board® panels as necessary to allow for the removal of the unwanted gypsum where the strap is to be installed. Attach the strap over the Sure-Board® sheet steel and re-attach the sheet steel of the Sure-Board® panel into new holes with the appropriate self tapping pan head fasteners into the gypsum patch or backing through the Sure-Board®sheet steel. Now the Sure-Board® panel is ready for inspection. This method allows the Sure-Board® Series 200 panel to be attached flush and the strap to be recessed into the gypsum panel and attached directly to the stud flange surface with no visual effect to the finish. After the inspection, the gypsum patch is easily installed and finished. (Note: The gypsum sheet is not a structural component, once the Sure-Board® Series 200 panel has been installed.) When using Series 200W the strapping may be applied over the substrate sheathing without causing unwanted surface irregularities any different than wood panels. The MDF Sheathing is not a structural component. (Note: If during installation and fastening of the panels to the Wood or CFS Framed walls, the nail heads or screw heads should be embedded into the MDF sheathing, below the surface of the MDF "deeper" than we recommend in our literature, will not adversely affect the structural performance of the Sure-Board® Series 200W Panels.)
2. There are also situations where the structural engineers use horizontal strapping to tie walls together and transfer loads. When this occurs, the same method of gypsum removal is acceptable. In certain situations, the Sure-Board® 22 gage (.027) sheet steel panel may be adequate for the horizontal drag attachment alone. In that case no strapping will be required stall. These conditions are ultimately the decision of the engineer of record and the existing governing agencies.
3. Installation of the Series 200S sheathing is intended to have the extended steel tab projected toward the next row of sheathing and covered used as a support member for the sheathing material between the floor joists and roof rafters to eliminate the need for additional blocking or backing. This method was demonstrated as very effective in testing when screwed into at each horizontal row and should be the standard installation procedure. If you have any installation or cutting questions please contact us at the Sure-Board® Technical Support Hotline in California at our toll free number: (866) 469-7432 or email at: support@sureboard.com.

D. Repairs on Field Damaged Gypsum on Sure-Board® Series 200
1. There are isolated situations where the gypsum panel is damaged during construction by field staff, weather conditions, etc. In those cases, the repair of the damaged Sure-Board® panels may be completed using the following method: 1.) Identify the damaged piece of gypsum.
2.) Score the gypsum panel with a drywall knife or router (set to depth of gypsum sheet).
3.) Remove existing bugle-head fasteners in the damaged portion and re-fasten the sheet steel at the prescribed spacing with a minimum #8 x ¼" self tapping pan-head fasteners into new holes in the Sure-Board® sheet steel and the studs. 4.) After completing this operation, the Sure-Board®panel is secure. Reinstall gypsum board patch and screw off only as necessary to accommodate the taping process. The gypsum patch need only be screwed to the sheet steel of the Sure-Board® to accommodate this process.

PART 4 - FIRE RATED SURE-BOARD® ASSEMBLIES

4.01 1 and 2-Hour Firewall Conditions and Sure-Board® Series 200/200W

A. Important Cost Saving Application
1. (Double layer 2-

C05000: STRUCTURAL AND MISCELLANEOUS STEEL
C: COLD-FORMED METAL FRAMING

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes:
1. Load-bearing wall framing.
2. Exterior non-load-bearing wall framing.

1.2 ACTION SUBMITTALS
A. Product Data: For each type of cold-formed steel framing product and accessory.
B. Product Data for each type of cold-formed metal framing product and accessory indicated.
C. Shop Drawings:
1. Include layout, spacings, sizes, thicknesses, and types of cold-formed steel framing; fabrication; and fastening and anchorage details, including mechanical fasteners.
2. Indicate reinforcing channels, opening framing, supplemental framing, strapping, bracing, bridging, splices, accessories, connection details, and attachment to adjoining work.
3. For cold-formed metal framing indicated to comply with design loads. Include structural analysis data signed and sealed by a qualified professional engineer in the state if the project responsible for their preparation.

1.3 INFORMATIONAL SUBMITTALS
A. Qualification Data: For testing agency.
B. Welding certificates.
C. Product test reports.
D. Research reports.

1.4 QUALITY ASSURANCE
A. Product Tests: Mill certificates or data from a qualified independent testing agency.
B. Welding Qualifications: Qualify procedures and personnel according to AWS D1.3/D1.3M, "Structural Welding Code - Sheet Steel."
C. Comply with AISI S230 "Standard for Cold-Formed Steel Framing."
D. Structural design shall be in accordance with American Iron and Steel Institute specifications for the design of cold-formed steel structural members.

PART 2 - PRODUCTS (C05595)

2.1 MANUFACTURERS
A. Manufacturers: Subject to compliance with requirements

2.2 PERFORMANCE REQUIREMENTS
A. AISI Specifications and Standards: Unless more stringent requirements are indicated, comply with AISI S100 and AISI S200.

2.3 COLD-FORMED STEEL FRAMING, GENERAL
A. Steel Sheet: ASTM A 1003/A 1003M, Structural Grade, Type H, metallic coated, of grade and coating weight as follows:
1. Grade: 33ksi minimum yield strength for members 18ga or lighter; 50ksi minimum yield strength for members heavier than 18ga.
2. Coating where in contact with concrete and/or PT lumber: G90
3. Coating in all other conditions: G60, A60, AZ50, or GF30.
B. Steel Sheet for Vertical Deflection Clips: ASTM A 653/A 653M, structural steel, zinc coated, of grade and coating as follows:
1. Grade: 33ksi minimum yield strength.
2. Coating: G60 (Z180).

2.4 LOAD-BEARING WALL FRAMING
A. Steel Studs: Manufacturer's standard C-shaped steel studs, of web depths indicated, punched, with stiffened flanges, and as follows:
1. Minimum Base-Metal Thickness: 0.0428 inch.
2. Flange Width: 1-5/8 inches.
3. Section Properties: As required by structural performance and deflection limitations.
a. Exterior: Horizontal deflection l/600
b. Interior: Horizontal deflection l/240
B. Steel Track: Manufacturer's standard U-shaped steel track, of web depths indicated, unpunched, with straight flanges, and matching minimum base-metal thickness of steel studs.
C. Steel Box or Back-to-Back Headers: Manufacturer's standard C-shapes used to form header beams, of web depths indicated, unpunched, with stiffened flanges, and as follows:
1. Minimum Base-Metal Thickness: 0.0428 inch.
2. Flange Width: 1-5/8 inches.
3. Section Properties: As required by structural performance and deflection limitations.
a. Vertical Deflection: l/360

2.5 EXTERIOR NON-LOAD-BEARING WALL FRAMING
A. Steel Studs: Manufacturer's standard C-shaped steel studs, of web depths indicated, punched, with stiffened flanges, and as follows:
1. Minimum Base-Metal Thickness: 0.0428 inch.
2. Flange Width: 1-5/8 inches.
3. Section Properties: As required by structural performance and deflection limitations.
a. Horizontal Deflection: l/360.
B. Steel Track: Manufacturer's standard U-shaped steel track, of web depths indicated, unpunched, with unstiffened flanges, and matching minimum base-metal thickness of steel studs.
C. Vertical Deflection Clips: Manufacturer's standard head clips, capable of accommodating upward and downward vertical displacement of primary structure through positive mechanical attachment to stud web.
1. Manufacturers: Subject to compliance with requirements:
a. AllSteel & Gypsum Products, Inc.
b. ClarkWestern Building Systems, Inc.
c. Dietrich Metal Framing; a Worthington Industries company.
d. MarinoWARE.
e. SCAFCO Corporation.
f. Steel Network, Inc. (The)
g. Steeler, Inc.
D. Single Deflection Track: Manufacturer's single, deep-leg, U-shaped steel track; unpunched, with unstiffened flanges, of web depth to contain studs while allowing free vertical movement, with flanges designed to support horizontal loads and transfer them to the primary structure.
E. Double Deflection Tracks: Manufacturer's double, deep-leg, U-shaped steel tracks, consisting of nested inner and outer tracks; unpunched, with unstiffened flanges.
F. Drift Clips: Manufacturer's standard bypass or head clips, capable of isolating wall stud from upward and downward vertical displacement and lateral drift of primary structure through positive mechanical attachment to stud web and structure.

2.6 FRAMING ACCESSORIES
A. Fabricate steel-framing accessories from steel sheet, ASTM A 1003/A 1003M, Structural Grade, Type H, metallic coated, of same grade and coating weight used for framing members.
B. Provide accessories of manufacturer's standard thickness and configuration.

2.7 ANCHORS, CLIPS, AND FASTENERS
A. Steel Shapes and Clips: ASTM A 36, zinc coated by hot-dip process according to ASTM A 123.
B. Expansion Anchors: Fabricated from corrosion-resistant materials, with allowable load or strength design capacities calculated according to ICC-ES AC193 and ACI 318 greater than or equal to the design load, as determined by testing per ASTM E 488 conducted by a qualified testing agency.
C. Power-Actuated Anchors: Fastener system of type suitable for application indicated, fabricated from corrosion-resistant materials, with allowable load capacities calculated according to ICC-ES AC70, greater than or equal to the design load, as determined by testing per ASTM E 1190 conducted by a qualified testing agency.
D. Mechanical Fasteners: ASTM C 1513, corrosion-resistant-coated, self-drilling, self-tapping, steel drill screws.
1. Head Type: Low-profile head beneath sheathing, manufacturer's standard elsewhere.
2. Length shall be such that a minimum (3) threads penetrate through opposite side of all connected materials
3. All screws shall be placed such that they are a minimum 1.5 screw diameters from the edge of any connected material
4. All screws shall be placed such that they are a minimum 3 screw diameters from nearest adjacent screw

2.8 MISCELLANEOUS MATERIALS
A. Galvanizing Repair Paint: SSPC-Paint 20 or MIL-P-21035B.
B. Cement Grout: Portland cement, ASTM C150, Type I; and clean, natural sand, ASTM C 404. Mix at ratio of 1 part cement to 2-1/2 parts sand, by volume, with minimum water required for placement and hydration.
C. Nonmetallic, Nonshrink Grout: Premixed, nonmetallic, noncorrosive, nonstaining grout containing selected silica sands, portland cement, shrinkage-compensating agents, and plasticizing and water-reducing agents, complying with ASTMC 1107/C 1107M, with fluid consistency and 30-minute working time.
D. Shims: Load bearing, high-density multimonomer plastic, and nonleaching; or of cold-formed steel of same grade and coating as framing members supported by shim
E. Sealer Gaskets: Closed-cell neoprene foam, 1/4 inch (6.4 mm) thick, selected from manufacturer's standard widths to match width of bottom track or rim track members.

PART 3 - EXECUTION

3.1 PREPARATION
A. Install load bearing shims or grout between the underside of load-bearing wall bottom track and the top of foundation wall or slab at locations with a gap larger than 1/4 inch (6 mm) to ensure a uniform bearing surface on supporting concrete or masonry construction.
B. Install sealer gaskets at the underside of wall bottom track or rim track and at the top of foundation wall or slab at stud or joist locations.

3.2 INSTALLATION, GENERAL

A. Cold-formed steel framing may be shop or field fabricated for installation, or it may be field assembled.
B. Install cold-formed steel framing according to AISI S200 and to manufacturer's written instructions unless more stringent requirements are indicated.
C. Install cold-formed steel framing and accessories plumb, square, and true to line, and with connections securely fastened.
D. Install framing members in one-piece lengths.
E. Install temporary bracing and supports to secure framing and support loads comparable in intensity to those for which structure was designed. Maintain braces and supports in place, undisturbed, until entire integrated supporting structure has been completed and permanent connections to framing are secured.
F. Care shall be exercised at all times to avoid damage through careless handling during unloading, storing and erection of framing members and sub-assemblies.
G. Joining of framing members shall be made with self-drilling screws or welding.
H. Fasten hole reinforcing plate over web penetrations that exceed size of manufacturer's approved or standard punched openings.
I. Erection Tolerances: Install cold-formed steel framing level, plumb, and true to line to a maximum allowable tolerance variation of 1/8 inch in 10 feet (1:960) and as follows:
1. Space individual framing members no more than plus or minus 1/8 inch (3 mm) from plan location. Cumulative error shall not exceed minimum fastening requirements of sheathing or other finishing materials.

3.3 LOAD-BEARING WALL INSTALLATION
A. Install continuous top and bottom tracks sized to match studs. Align tracks accurately and securely anchor at corners and ends, and at spacings as follows:
1. Anchor Spacing: To match stud spacing unless noted otherwise.
B. Squarely seat studs against top and bottom tracks with gap not exceeding of 1/8 inch (3 mm) between the end of wall framing member and the web of track. Fasten both flanges of studs to top and bottom tracks. Space studs as follows:
1. Stud Spacing: As indicated (16" maximum).
C. Set studs plumb, except as needed for diagonal bracing or required for nonplumb walls or warped surfaces and similar configurations.
D. Align studs vertically where floor framing interrupts wall-framing continuity. Where studs cannot be aligned, continuously reinforce track to transfer loads.
E. Splice floor and roof framing over studs. Where framing cannot be aligned, continuously reinforce track to transfer loads.
F. Anchor studs abutting structural columns or walls, including masonry walls, to supporting structure as indicated.
G. Install headers over wall openings wider than stud spacing. Locate headers above openings as indicated. Fabricate headers of compound shapes indicated or required to transfer load to supporting studs, complete with clip-angle connectors, web stiffeners, or gusset plates.
1. Frame wall openings with not less than a double stud at each jamb of frame as indicated on Shop Drawings. Fasten jamb members together to uniformly distribute loads.
2. Install runner tracks and jack studs above and below wall openings. Anchor tracks to jamb studs with clip angles or by welding, and space jack studs same as full-height wall studs.
H. Install supplementary framing, blocking, and bracing in stud framing indicated to support fixtures, equipment, services, casework, heavy trim, furnishings, and similar work requiring attachment to framing.
1. If type of supplementary support is not indicated, comply with stud manufacturer's written recommendations and industry standards in each case, considering weight or load resulting from item supported.
I. Install horizontal bridging in stud system, spaced vertically 48 inches unless noted otherwise. Fasten at each stud intersection.
1. Bridging: Cold-rolled steel channel, welded or mechanically fastened to webs of punched studs with a minimum of two screws into each flange of the clip angle for framing members up to 6 inches (150 mm) deep.
2. Bridging: Combination of flat, taut, steel sheet straps of width and thickness indicated and stud-track solid blocking of width and thickness to match studs. Fasten flat straps to stud flanges and secure solid blocking to stud webs or flanges.
3. Bridging: Proprietary bridging bars installed according to manufacturer's written instructions.
J. Install steel sheet diagonal bracing straps to both stud flanges, terminate at and fasten to reinforced top and bottom tracks. Fasten clip-angle connectors to multiple studs at ends of bracing and anchor to structure.
K. Install miscellaneous framing and connections, including supplementary framing, web stiffeners, clip angles, continuous angles, anchors, and fasteners, to provide a complete and stable wall-framing system.

3.4 EXTERIOR NON-LOAD-BEARING WALL INSTALLATION
A. Install continuous tracks sized to match studs. Align tracks accurately and securely anchor to supporting structure as indicated.
B. Fasten both flanges of studs to top and bottom track unless otherwise indicated. Space studs as follows:
1. Stud Spacing: As indicated (16" o/c maximum).
C. Set studs plumb, except as needed for diagonal bracing or required for nonplumb walls or warped surfaces and similar requirements.
D. Isolate non-load-bearing steel framing from building structure to prevent transfer of vertical loads while providing lateral support.
1. Install single deep-leg deflection tracks and anchor to building structure.
2. Install double deep-leg deflection tracks and anchor outer track to building structure.
3. Connect vertical deflection clips to infill studs and anchor to building structure.
4. Connect drift clips to cold-formed metal framing and anchor to building structure.
E. Install horizontal bridging in wall studs, spaced vertically in rows indicated on Shop Drawings but not more than 48 inches (1220 mm) apart. Fasten at each stud intersection.
1. Top Bridging for Single Deflection Track: Install row of horizontal bridging within 12 inches (305 mm) of single deflection track. Install a combination of bridging and stud or stud-track solid blocking of width and thickness matching studs, secured to stud webs or flanges.
a. Install solid blocking at 96-inch centers unless noted otherwise.
2. Bridging: Cold-rolled steel channel, welded or mechanically fastened to webs of punched studs.
3. Bridging: Combination of flat, taut, steel sheet straps of width and thickness indicated and stud-track solid blocking of width and thickness to match studs. Fasten flat straps to stud flanges and secure solid blocking to stud webs or flanges.
4. Bridging: Proprietary bridging bars installed according to manufacturer's written instructions.
F. Install miscellaneous framing and connections, including stud kickers, web stiffeners, clip angles, continuous angles, anchors, and fasteners, to provide a complete and stable wall-framing system.

3.5 FIELD QUALITY CONTROL
A. Testing: Owner will engage a qualified independent testing and inspecting agency to perform field tests and inspections and prepare test reports.
B. Field and shop welds will be subject to testing and inspecting.
C. Testing agency will report test results promptly and in writing to Contractor and Architect.
D. Remove and replace work where test results indicate that it does not comply with specified requirements.
E. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.

3.6 REPAIRS AND PROTECTION
A. Galvanizing Repairs: Prepare and repair damaged galvanized coatings on fabricated and installed cold-formed steel framing with galvanized repair paint according to ASTM A 780 and manufacturer's written instructions.
B. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and installer, that ensure that cold-formed steel framing is without damage or deterioration at time of Substantial Completion.
END OF C05000C

C06000: CARPENTRY
A: ROUGH CARPENTRY

PART 1 - GENERAL

1.1 SUMMARY
A. This Section includes the following:
1. Framing with dimension lumber.
2. Rooftop equipment bases and support curbs.
3. Wood blocking, cants, and nailers.
4. Wood furring and grounds.
5. Wood sleepers.
6. Plywood backing panels.
7. Engineered Wood Products.
8. **Prefabricated wall panels.**

1.2 ACTION SUBMITTALS
A. Product Data: For each type of metal fastening product and accessory.
B. Shop Drawings:
1. Include dimnesioned layout, material info, and connections for **all prefabricated wall panels.**

PART 2 - PRODUCTS

2.1 WOOD PRODUCTS, GENERAL (C06115)
A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies with the applicable rules of any rules-writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.
1. Factory mark lumber with grade stamp of grading agency at a minimum rate of 5% of sticks used.
2. For exposed lumber indicated to receive a stained or natural finish, mark grade stamp on end or back of piece.
3. Unless otherwise noted, use lumber that has been kiln-dried to a maximum moisture content of 19 percent.

2.2 WOOD-PRESERVATIVE-TREATED LUMBER (C06115)
A. A. Preservative Treatment by Pressure Process: AWPA UC2.
1. Preservative Chemicals: Acceptable to authorities having jurisdiction, and containing no arsenic or chromium.
B. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent.
C. Mark lumber with treatment quality mark of an inspection agency approved by the ALSC Board of Review.
D. Application: Treat items indicated on Drawings, and the following:
1. Wood cants, nailers, curbs, equipment support bases, blocking, stripping, and similar members in connection with roofing, flashing, VAPOR RETARDERs, and waterproofing.
2. Wood sills, sleepers, blocking, furring, stripping, and similar concealed members in contact with masonry or concrete.
3. Wood framing and furring attached directly to the interior of below-grade exterior masonry or concrete walls.
4. Wood framing members that are less than 18 inches (460 mm) above the ground in crawl spaces or unexcavated areas.
5. Wood floor plates that are installed over concrete slabs-on-grade.

2.3 FIRE TREATMENT
A. MFRT Class-A Fire Protected Lumber acceptable treatment products:
1. Hoover: Pyro-Guard (UL ER7002-01)
2. Fire Retardant Chemicals Technologies LLC: Flametech (ICC ESR-4056)
3. Any substitution requests must be submitted for review & approval by project Structural Engineer
B. Identify fire-retardant-treated wood with appropriate classification marking of testing and inspecting agency acceptable to authorities having jurisdiction.
C. Application: Treat items indicated on Drawings.

2.4 DIMENSION LUMBER FRAMING (C06115)
A. Maximum Moisture Content: 19 percent.
B. Non-Load-Bearing Interior Partitions w/ min 2x6@16"o.c. studs: Stud Grade or better SYP or DFL, or #2 or better SPF.
C. Framing Other Than Non-Load-Bearing Interior Partitions:
1. Species and grade as shown on plan. Where species & grade is not called out, use DFL#2 or SYP #2. Where DFL called out on plan, SYP of same or better grade may be substituted at contractor/fabricator option.
2. Douglas Fir-Larch grading per WCLIB or WWPA. Southern pine grading per SPIB.
3. MSR 1650f-1.6E or better lumber may be substituted where DFL#2 or DFL#1 is called out.
4. All other visually graded dimension lumber must be specifically designed for at the Contractor's request.
D. Exposed Exterior and Interior Framing Indicated to Receive a Stained or Natural Finish: Provide material hand-selected for uniformity of appearance and freedom from characteristics, on exposed surfaces and edges, that would impair finish appearance, including decay, honeycomb, knot-holes, shake, splits, torn grain, and wane.
1. Species and Grade: As indicated above for load-bearing construction of same type.
2. Species and Grade: Southern pine, No. 1 grade; SPIB.
3. Species and Grade: Douglas fir-larch; No. 1 grade; WCLIB, or WWPA.

2.5 MISCELLANEOUS LUMBER (C06495)
A. General: Contractor to provide miscellaneous lumber indicated and lumber for support or attachment of other construction, including the following:
1. Blocking.
2. Nailers.
3. Rooftop equipment bases and support curbs.
4. Cants.
5. Furring.
6. Grounds.
B. For items of dimension lumber size, provide Construction or No. 2 grade lumber with 19 percent maximum moisture content of Douglas Fir-Larch or Southern Yellow Pine.

2.6 PLYWOOD BACKING PANELS (C06496)
A. Telephone, Kitchen Equipment, and Electrical Equipment Backing Panels: DOC PS 1, Exposure 1, C-D Plugged, fire-retardant treated, in thickness indicated or, if not indicated, not less than 1/2-inch (13-mm) nominal thickness.

2.7 FASTENERS (C06115)
A. General: Provide fasteners of size and type indicated that comply with requirements specified.
1. Where rough carpentry is exposed to weather, in ground contact, pressure-preservative treated, or in area of high relative humidity, provide fasteners with hot-dip zinc coating complying with ASTM A153 / A153M.
B. Power-Driven Fasteners: NES NER-272.
C. Bolts: Steel bolts complying with ASTM A 307, Grade A (ASTM F 568M, Property Class 4.6); with ASTM A 563 (ASTM A 563M) hex nuts and, where indicated, flat washers, unless noted otherwise on sections and plans.
D. Nails: All nails shall be common type unless otherwise noted. HY-TEK nails manufactured and installed in accordance with ICC ESR-2648 may be used in lieu of specified nails at contractor/fabricator option as follows:

Specified Nail	Approved Alternate
8d Common	HY-TEK 3" x 0.120M
8d Long	HY-TEK 3" x 0.120M
10d Short	HY-TEK 2.25" x 0.120M (including for use as sheathing nailing)
10d Common	HY-TEK 3" x 0.120M
10d Long	HY-TEK 4" x 0.148

2.8 METAL FRAMING ANCHORS (C06115)
A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1. Simpson Strong-Tie Co., Inc..
B. Allowable Design Loads: Provide products with allowable design loads, as published by manufacturer, that meet or exceed those indicated. Manufacturer's published values shall be determined from empirical data or by rational engineering analysis and demonstrated by comprehensive testing performed by a qualified independent testing agency.
C. Galvanized Steel Sheet: Hot-dip, zinc-coated steel sheet complying with ASTM A 653/A 653M, G60 (Z180) coating designation.

2.9 ENGINEERED WOOD PRODUCTS (C06170)
A. Engineered Wood Products, General: Products shall contain no urea formaldehyde.
B. Laminated-Veneer Lumber: Structural composite lumber made from wood veneers with grain primarily parallel to member lengths, evaluated and monitored according to ASTM D 5456 and manufactured with an exterior-type adhesive complying with ASTM D 2559.
1. Extreme Fiber Stress in Bending, Edgewise: 2500 psi (min) for 12-inch nominal depth members.
2. Fiber stress in Compression, Parallel to Grain: 2635 psi (min).
3. Modulus of Elasticity, Edgewise: 2,000,000 psi (min).
4. Effective Specific Gravity, SG = 0.5 (min) for all faces of member to receive fasteners.
5. Approved products include RedLam by RedBuilt (ICC ESR-2993) and RigidLam by Roseburg (ICC ESR-1210).
C. Wood I-Joists: Prefabricated units, I-shaped in cross section, made with solid or structural composite lumber flanges and wood-based structural panel webs, let into and bonded to flanges. Provide units complying with material requirements of and with structural capacities established and monitored according to ASTM D 5055.
1. Web Material: Either oriented strand board or plywood, complying with DOC PS 1 or DOC PS 2, Exposure
2. Structural Properties: Provide units with depths and design values not less than those indicated.
3. Provide units complying with APA PRI-400, factory marked with APA trademark indicating nominal joist depth, joist class, span ratings, mill identification, and compliance with APA standard.

PART 3 - EXECUTION

3.1 INSTALLATION
A. **Set wall panels to required levels and lines, with members plumb, true to line, cut, and fitted. Fit rough carpentry to other construction; scribe and cope as needed for accurate fit. Locate furring, nailers, blocking, grounds, and similar supports to comply with requirements for attaching other construction.**
B. Framing Standard: Comply with AF&PA's "Details for Conventional Wood Frame Construction," unless otherwise indicated.
C. Framing with Engineered Wood Products: Install engineered wood products to comply with manufacturer's written instructions.
D. Metal Framing Anchors: Install metal framing to comply with manufacturer's written instructions.
E. Do not splice structural members between supports, unless otherwise indicated.
F. Comply with AWPA M4 for applying field treatment to cut surfaces of preservative-treated lumber.
G. Securely attach rough carpentry work to substrate by anchoring and fastening as indicated, complying with the following:
1. NES NER-272 for power-driven fasteners.
2. Table 2304.10, "Fastening Schedule," in ICC's International Building Code.
END OF C06000 A

C06000: CARPENTRY
B. HEAVY TIMBER FRAMING

PART 1 - GENERAL

1.1 SUMMARY
A. Section includes framing using timbers.

1.2 DEFINITIONS
A. Timbers: Lumber of 5 inches nominal (114 mm actual) or greater in least dimension.
B. Inspection agencies, and the abbreviations used to reference them, include the following:
1. SPIB: Southern Pine Inspection Bureau (The).
2. WWPA: Western Wood Products Association.

PART 2 - PRODUCTS
2.1 TIMBER (C06115)
A. Comply with DOC PS 20 and with grading rules of lumber-grading agencies certified by ALSC's Board of Review as applicable.
1. Factory mark each item of timber with grade stamp of grading agency.
2. For exposed timber indicated to receive a stained or natural finish, apply grade stamps to surfaces that are not exposed to view, or omit grade stamps and provide certificates of grade compliance issued by grading agency.
B. Timber Species and Grade: Douglas Fir-Larch; No. 1, WCLIB.
C. Structural Properties: Provide any species and grade that, for moisture content provided, complies with required structural properties.
1. Allowable Stress Ratings for 12-Inch Nominal (286-mm Actual) Depth: Fb 1500 psi (10.3 MPa) and E 1,500,000 psi (10 340 MPa)
D. Moisture Content: Provide kiln-dried timber with 19 percent maximum moisture content at time of dressing.
E. Dressing: Provide dressed timber (S4S) unless otherwise indicated.

2.2 TIMBER CONNECTORS (C06115)
A. Manufacturers: Subject to compliance with requirements:
B. Basis-of-Design Products: Subject to compliance with requirements.
C. Provide bolts, 3/4 inch (19 mm) unless otherwise indicated, complying with ASTM A 307, Grade A (ASTM F 568M, Property Class 4.6); provide nuts complying with ASTM A 563 (ASTM A 563M); and, where indicated, provide flat washers.
D. Materials: Unless otherwise indicated, fabricate from the following materials:
1. Structural-steel shapes, plates, and flat bars complying with ASTM A 36/A 36M.
2. Round steel bars complying with ASTM A 575, Grade M 1025.
E. Finish steel assemblies and fasteners with rust-inhibitive primer, 2-mil (0.05-mm) dry film thickness.

PART 3 - EXECUTION

3.1 INSTALLATION
A. General: Erect heavy timber framing true and plumb. Provide temporary bracing to maintain lines and levels until permanent supporting members are in place.
B. Fitting: Fit members by cutting and restoring exposed surfaces to match specified surfacing.
1. Predrill for fasteners using timber connectors as templates.
2. Finish exposed surfaces to remove planing or surfacing marks, and to provide a finish equivalent to that produced by machine sanding with No. 120 grit sandpaper.
3. Coat crosscuts with end sealer.
C. Install timber connectors as indicated.
1. Install bolts with orientation as indicated or, if not indicated, as directed by Architect.

3.2 ADJUSTING
A. Repair damaged surfaces and finishes after completing erection. Replace damaged heavy timber framing if repairs are not approved by Architect.
END OF C06000 A

C06000: CARPENTRY
C: SHEATHING

PART 1 - GENERAL

1.1 SUMMARY
A. Section Includes:
1. Wall sheathing.
2. Roof sheathing.
3. Composite nail base insulated roof sheathing.
4. Sheathing joint and penetration treatment.

1.2 ACTION SUBMITTALS
A. Product Data: For each type of process and factory-fabricated product. Indicate component materials and dimensions and include construction and application details.
1. Include data for wood-preservative treatment from chemical treatment manufacturer and certification by treating plant that treated plywood complies with requirements.
2. Include data for fire-retardant treatment from chemical treatment manufacturer and certification by treating plant that treated plywood complies with requirements.

1.3 INFORMATIONAL SUBMITTALS
A. Evaluation Reports: For following products, from ICC-ES:
1. Preservative-treated plywood.

PART 2 - PRODUCTS

2.1 WOOD SHEATHING PANEL PRODUCTS (C06115)
A. Emissions: Products shall meet the testing and product requirements of the California Department of Health Services' "Standard Practicefor the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."
B. Plywood: Either DOC PS 1 or DOC PS 2 unless otherwise indicated.
C. Oriented Strand Board: DOC PS 2.

2.2 WALL SHEATHING (C06115)
A. Plywood Wall Sheathing: Exterior, Structural I sheathing.
B. Oriented-Strand-Board Wall Sheathing: Exposure 1, Structural I sheathing.

2.3 ROOF SHEATHING (C06115)
A. Plywood Roof Sheathing: Exposure 1, Structural I sheathing.
B. Oriented-Strand-Board Roof Sheathing: Exposure 1, Structural I sheathing.

2.4 FASTENERS (C06115)
A. General: Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture.
1. Where fastening to preservative-treated lumber and/or where otherwise noted, provide fasteners with hot-dip zinc coating complying with ASTM A 153.
B. Nails: All nails shall be common type unless otherwise noted. HY-TEK nails manufactured and installed in accordance with ICC ESR-2648 may be used in lieu of specified nails at contractor/fabricator option as follows:

Specified Nail	Approved Alternate
8d Common	HY-TEK 3" x 0.120M
8d Long	HY-TEK 3" x 0.120M
10d Short	HY-TEK 2.25" x 0.120M (including for use as sheathing nailing)
10d Common	HY-TEK 3" x 0.120M
10d Long	HY-TEK 4" x 0.148

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL
A. Do not use materials with defects that impair quality of sheathing or pieces that are too small to use with minimum number of joints or optimum joint arrangement. Arrange joints so that pieces do not span between fewer than three support members.
B. Cut panels at penetrations, edges, and other obstructions of work; fit tightly against abutting construction unless otherwise indicated.
C. Securely attach to substrate by fastening as indicated, complying with the following:
1. NES NER-272 for power-driven fasteners.
2. Table 2304.10, "Fastening Schedule," in ICC's "International Building Code."
3. Table R602.3(1), "Fastener Schedule for Structural Members," and Table R602.3(2), "Alternate Attachments," in ICC's "International Residential Code for One- and Two-Family Dwellings."
D. Coordinate wall and roof sheathing installation with flashing and joint-sealant installation so these materials are installed in sequence and manner that prevent exterior moisture from passing through completed assembly.

3.2 WOOD STRUCTURAL PANEL INSTALLATION
A. General: Comply with applicable recommendations in APA Form No. E30, "Engineered Wood Construction Guide," for types of structural-use panels and applications indicated.
B. Fastening Methods: Fasten panels as indicated below:
1. Wall and Roof Sheathing:
a. Nail to wood framing.
b. Screw to cold-formed metal framing.
c. Space panels 1/8 inch (3 mm) apart at edges and ends.
END OF C06000 C

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PROJECT NUMBER:	23-0502
PROJECT ENGINEER:	FDR
PROJECT MANAGER:	RAD
PROJECT DRAFTER:	MJN

MONTANA
THOMAS R. MORRIS
23397
REGISTERED PROFESSIONAL ENGINEER
10-23-25

CHICK-FIL-A
CUSTER & WASHINGTON
2770 N WASHINGTON ST
HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE:	BTS LS XPS
RELEASE:	23.09
PRINTED FOR	

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REVISION SCHEDULE

NO.	DATE	DESCRIPTION

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CONSULTANT PROJECT #	LAX22-0129-01
DATE	03/01/2024
DRAWN BY	MJN

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SHEET
STRUCTURAL SPECIFICATIONS

SHEET NUMBER
S-902

10/23/2025 11:49:56 AM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR05484_Custer & Washington FSU_STR.rvt
20-LS-05484-S-902-STRUCTURAL SPECIFICATIONS

DIVISION 15 SPECIFICATIONS

PART I - GENERAL

1.01 SCOPE

A. IT IS THE RESPONSIBILITY OF CONTRACTOR TO READ ALL SPECIFICATIONS AND CONSULT ALL DRAWINGS WHICH MAY AFFECT THE INSTALLATION AND COORDINATION OF WORK WITH OTHER TRADES. CONTRACTOR SHALL COORDINATE AND MAKE MINOR ADJUSTMENTS IN LOCATION OF EQUIPMENT AND MATERIALS AS NECESSARY FOR COORDINATION.

B. COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.

C. SYSTEM LAYOUT IS SCHEMATIC AND EXACT LOCATIONS SHALL BE DETERMINED BY STRUCTURAL CONDITIONS, COORDINATION WITH OTHER TRADES, COORDINATION WITH FINISHES AND OTHER CONDITIONS. STRUCTURAL SUPPORTS SHALL NOT BE CUT OR ALTERED TO ASSURE FIT OF HVAC SYSTEM. TEN FOOT CLEARANCE SHALL BE MAINTAINED BETWEEN OUTSIDE AIR INTAKES AND EXHAUST FANS AND PLUMBING VENT TERMINALS.

D. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEFECTS, REPAIRS AND REPLACEMENTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER FINAL PAYMENT IS APPROVED. CONTRACTOR SHALL HONOR FACTORY WARRANTIES ON ALL EQUIPMENT PROVIDED AS PART OF THIS SYSTEM.

E. UPON COMPLETION OF PROJECT, ALL SYSTEM EQUIPMENT AND MATERIALS SHALL BE IN NEW, CLEAN CONDITION WITH ALL DAMAGE RESTORED TO CONDITION ACCEPTABLE TO THE OWNERS REPRESENTATIVE. ALL EQUIPMENT, COMPONENTS, DUCTWORK AND AIR DEVICES SHALL BE INSPECTED AND THOROUGHLY CLEANED, CLEARED OF DEBRIS, AND READY FOR USE. AT COMPLETION OF JOB, ALL MISCELLANEOUS TOOLS, SCAFFOLDING, SURPLUS MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED BY CONTRACTOR.

F. CONTRACTOR SHALL PROVIDE TWO SETS OF 2" MERV 13 OR HIGHER THROW AWAY TYPE FILTERS. A CLEAN SET SHALL BE PROVIDED PRIOR TO TEST AND BALANCE AND AGAIN PRIOR TO OPENING.

PART II - PRODUCTS

2.01 HEATING AND COOLING EQUIPMENT

A. FURNISH AND INSTALL R-410A ROOFTOP SINGLE PACKAGE COMBINATION ELECTRIC COOLING AND NATURAL GAS FIRED HEATING UNITS AS SHOWN ON DRAWINGS. EQUIPMENT SHALL BE ARI CERTIFIED AND A.G.A. AND U.L. LISTED.

B. ACCESSORIES SHALL INCLUDE LOW AND HIGH PRESSURE SAFETIES, CRANK CASE HEATER, OVERCURRENT AND OVERTEMPERATURE SAFETY, COMPRESSOR VIBRATION ISOLATORS, FILTER DRIERS, REFRIGERANT SERVICE VALVES, COIL HAIL GUARDS WHERE SCHEDULED, CONVENIENCE OUTLETS FACTORY INSTALLED ON SCHEDULED UNITS, UNIT MOUNTED NON-FUSED DISCONNECTS, LOW AMBIENT OPERATION DOWN TO 30 DEGREES F AND EVAPORATOR FREEZE STAT.

C. COMPRESSORS SHALL BE HERMETIC SCROLL TYPE WITH INTERNAL VIBRATION ISOLATORS. COMPRESSORS SHALL BE PROVIDED WITH A MINIMUM FIVE (5) YEAR FULL WARRANTY.

D. THE UNIT HEAT EXCHANGERS SHALL BE ALUMINIZED STEEL COATING. HEATING CONTROLS SHALL CONSIST OF REDUNDANT GAS VALVES, INTERMITTENT PILOT WITH ELECTRONIC SPARK OR HOT PLATE IGNITION SYSTEM, COMBUSTION/EXHAUST FAN PROTECTED BY CENTRIFUGAL SWITCHES, HEAT LIMIT SWITCHES, TIME-DELAY RELAY, FLAME, AND PILOT SENSORS. HEAT EXCHANGERS SHALL HAVE A TEN (10) YEAR WARRANTY. BURNERS SHALL BE IN-SHOT TYPE. THE DRAFT MOTOR SHALL BE MONITORED BY THE CONTROL SYSTEM.

2.02 DUCTWORK (C15735)

A. ACCEPTABLE MANUFACTURERS OF INSULATION SHALL BE: JOHNS MANVILLE, OWENS CORNING OR KNAUF.

B. ALL DUCTWORK SHALL BE SHEET METAL, UNLESS NOTED OTHERWISE (U.N.O.).

C. DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS, U.N.O.

D. CONSTRUCTION OF DUCTWORK SHALL MEET SMACNA 1" W.C. PRESSURE CLASS STANDARD AND RECOMMENDATIONS. SMACNA SHALL BE FOLLOWED WITH RESPECT TO GAGE THICKNESS, JOINTS, REINFORCING, CONSTRUCTION, INSTALLATION AND SUPPORT FOR PRESSURE CLASS STATED. ALL TRANSVERSE JOINTS IN RECTANGULAR AND ROUND DUCT INCLUDING DUCT CONNECTION TO AIR DEVICE COLLAR SHALL BE SEALED PER SMACNA SEAL CLASS C WITH U.L. DUCT MASTIC SEALANT APPROVED FOR INTENDED USE. DUCT TAPE IS NOT AN ACCEPTABLE SUBSTITUTE FOR MASTIC UNLESS EQUAL TO HARDCAST FOIL-GRIP 1402 BUTYL RUBBER ADHESIVE TAPE.

E. DUCT SHALL BE SUPPORTED AT BASE OF DUCT DROPS. CURB DUCT RAILS ARE NOT INTENDED TO AND SHALL NOT SUPPORT THE WEIGHT OF THE DUCT.

F. ALL DUCT WRAP SHALL BE MINIMUM 2" THICK, 3/4 PCF AND 6 R-VALUE INSTALLED WITH EITHER A VAPOR BARRIER WITH MAXIMUM PERMEANCE 0.05 OR A MINIMUM 2 MIL ALUMINUM REINFORCED FOIL/KRAFT FACING.

G. ALL DUCT DROPS FROM THE ROOFTOP UNITS SHALL BE EXTERNALLY INSULATED.

H. SUPPLY AND RETURN AIR DUCTWORK SERVING ALL AREAS SHALL BE EXTERNALLY INSULATED.

I. ALL AIR CONVEYANCE COMPONENTS SUCH AS, BUT NOT LIMITED TO DUCT, DUCT PLENUMS, GRILLES/DIFFUSERS, BACK PANS, AND BOOTS SHALL BE INSULATED. INSULATION TYPE IS COVERED ELSEWHERE IN THIS SPECIFICATION.

J. RESTROOM RECTANGULAR EXHAUST AIR DUCTWORK SHALL BE LINED WITH 1" THICK, 1-1/2 PCF INSULATION. RESTROOM ROUND EXHAUST DUCT SHALL BE EXTERNALLY INSULATED PER SECTION 2.02F.

K. DUCT DROPS SHALL BE ISOLATED FROM UNIT VIBRATION WITH THE USE OF NFPA AND U.L. APPROVED FLEXIBLE CONNECTORS INSTALLED AT THE TOP OF BOTH SUPPLY AND RETURN DROPS.

L. INSULATED FLEXIBLE DUCT MAY BE UTILIZED FOR RUNOUTS TO GRILLES AND DIFFUSERS ONLY IN THE HORIZONTAL POSITION AND IN MAXIMUM LENGTHS OF 5'-0", NO EXCEPTIONS.

M. CONSTRUCTION OF FLEXIBLE DUCTWORK SHALL INCLUDE SPIRAL METAL HELIX BONDED TO A POLYESTER CORE, FIBERGLASS INSULATION WITH POLYETHYLENE OR MYLAR VAPOR BARRIER. ALL COMPONENTS SHALL HAVE APPROPRIATE U.L. APPROVAL AND SHALL BE EQUIVALENT TO THERMAFLEX MKE. FLEX DUCT SHALL HAVE A MINIMUM R-VALUE OF 6.

N. FLEXIBLE DUCT SHALL BE INSTALLED PER THE "ADC FLEXIBLE DUCT PERFORMANCE AND INSTALLATION STANDARDS, 4TH ED" USING FOIL TAPE AND DRAWBAND ON THE INNER CORE AND TAPE OR DRAWBAND ON THE OUTER JACKET.

O. DUCT TAPE SHALL BE EQUAL TO FASSON 181-B FX, 2-1/2" WIDE.

P. SINGLE THICKNESS TURNING VANES SHALL BE INSTALLED AT ALL 90 DEGREE ELBOWS WHERE THE CENTERLINE RADIUS (R) IS LESS THAN THE WIDTH OF THE DUCT AND ANY ONE DIMENSION IS GREATER THAN 12".

Q. EXTERNAL INSULATION ON BOTTOM OF DUCTS 24" OR WIDER SHALL BE SUPPORTED WITH STICK PINS ON 18" CENTERS. STICK PIN WASHERS SHALL BE COVERED WITH DUCT TAPE OR MASTIC.

2.03 CONTROLS

A. SYSTEMS SHALL BE COMPLETE WITH CONNECTIONS TO CFA-500 TEMPERATURE CONTROL PANEL AS MANUFACTURED BY SUNCOAST ENVIRONMENTAL CONTROLS (S.E.C.) (PH: 877-544-6679). THE PANEL IS PROVIDED AND MOUNTED BY THE ELECTRICAL CONTRACTOR. CONTROL WIRING TERMINATIONS ARE BY THE MECHANICAL CONTRACTOR WHERE PERMITTED BY AHJ.

B. THE SMOKE DETECTORS SHALL BE FACTORY INSTALLED AND WIRED BY THE ROOFTOP UNIT MANUFACTURER.

C. A FACTORY INSTALLED SMOKE DETECTOR IN THE RETURN AIR SECTION OF EACH AIR CONDITIONING UNIT SHALL STOP THE INDOOR FAN AND CLOSE THE OUTSIDE AIR DAMPER IN THE EVENT OF EXCESSIVE TEMPERATURE OR SMOKE. SMOKE DETECTOR SHALL BE LOCATED PRIOR TO ANY EXHAUST FROM THE BUILDING OR MIXING WITH FRESH AIR MAKE-UP. UPON DETECTION, THE SYSTEM SHALL NOT RESTART UNTIL THE DEVICE IS MANUALLY RESET. DEVICES SHALL BE LOCATED WHERE THEY CAN BE EASILY ACCESSED AND WHERE CLEAR OF FILTERS.

D. CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH SUNCOAST ENVIRONMENTAL CONTROLS FOR THE SMOKE DETECTOR TEST/RESET ANNUNCIATOR STATIONS. THE TEST/RESET STATIONS WILL BE PURCHASED BY THE ELECTRICAL CONTRACTOR AS A PART OF A NATIONAL ACCOUNT PACKAGE AND TURNED OVER TO THE MECHANICAL CONTRACTOR FOR INSTALLATION.

E. THE REMOTE TEST/RESET ANNUNCIATORS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. INSTALLATION BY MECHANICAL SHALL INCLUDE MOUNTING OF THE ANNUNCIATORS AND ALL WIRING FROM EACH DEVICE TO THE RTU. ELECTRICAL WILL PROVIDE A JUNCTION BOX IN THE WALL WITH 1/2" CONDUIT STUBBED UP ABOVE THE CEILING FOR EACH REMOTE TEST STATION AS SHOWN ON THE ELECTRICAL PLANS. ANNUCIATOR SHALL BE SUNCOAST CONTROLS REMOTE TEST/RESET STATION WITH POWER LED, TROUBLE LED, ALARM LED, 90DB HORN AND TEST/RESET BUTTON.

F. THE RESTROOM FAN SHALL BE INTERLOCKED TO THE LIGHTS SERVING THE MEN AND WOMEN'S RESTROOMS. THE HOOD FANS SHALL BE CONTROLLED VIA THE SUNCOAST CFA-500 CONTROL PANEL. WIRING, RELAYS AND SWITCHES FOR CONTROL OF ALL FANS ARE BY ELECTRICAL CONTRACTOR.

G. THERMOSTATS ARE PROVIDED AND INTEGRATED INTO THE TEMPERATURE CONTROL PANEL BY SUNCOAST ENVIRONMENT CONTROLS. SUNCOAST WILL PROVIDE A NETWORK THERMOSTAT US32-CFA THERMOSTAT PRE-WIRED IN THE TEMPERATURE CONTROL PANEL. REMOTE TEMPERATURE SENSOR(S) FOR EACH THERMOSTAT IS ALSO PROVIDED. MECHANICAL CONTRACTOR SHALL INSTALL ALL WIRING BETWEEN THE THERMOSTAT, THE REMOTE SENSOR(S) AND THE ROOFTOP UNIT.

H. MECHANICAL CONTRACTOR SHALL INSTALL CONTROL WIRING IN 1/2" CONDUIT WHERE REQUIRED BY CODE. WHERE NOT REQUIRED TO BE IN CONDUIT, ALL WIRING SHALL BE RUN PARALLEL TO STRUCTURAL MEMBERS OR PERPENDICULAR WITH NO DIAGONAL ROUTING. ALL WIRING SHALL BE SECURED TO THE FRAMING TO PREVENT SAGGING IN RUNS. WIRING TO ROOFTOP UNITS SHALL BE ROUTED THROUGH THE FACTORY THRU-BASE FITTING IN THE UNIT BASE. NO SPLICING OF WIRING WILL BE ACCEPTED. ALL WIRING ABOVE THE ROOF SHALL BE INSTALLED IN EXTERIOR GRADE FLEXIBLE CONDUIT. ALL CONTROL WIRING AND CONTROL WIRING CONDUIT SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LATEST EDITION OF NEC. ALL LOW VOLTAGE CONTROL WIRING SHALL BE NO LESS THAN 18 AWG MIN. CONTROL WIRING CONDUCTORS SHALL BE SIZED TO ACCOUNT FOR LOAD AND LENGTH OF RUN TO ALLOW SUFFICIENT VOLTAGE AVAILABLE AT CONTROLLED DEVICE TO OPERATE THE SYSTEM RELIABLY.

2.04 PIPING

A. ALL ABOVE GRADE NATURAL GAS PIPING SHALL BE SCHEDULE 40 STEEL MEETING ASTM A53 WITH SCREWED OR WELDED FITTINGS AND GASKET TYPE UNIONS AND FLANGES. FOR SCREWED PIPING, PIPING SHALL BE JOINED WITH BLACK 150 POUND MALLEABLE IRON SCREWED FITTINGS AS ALLOWED BY LOCAL AUTHORITY. CONTRACTOR SHALL VERIFY THE NEED FOR WELDED PIPING AS REQUIRED BY THE LOCAL GAS CODE AND/OR APPLICABLE LOCAL ORDINANCES AND AMENDMENTS.

B. ALL BELOW GRADE NATURAL GAS PIPING SHALL BE MEDIUM DENSITY POLYETHYLENE (PE) MEETING ASTM D2513 AS MANUFACTURED BY GASTITE WITH JOINING SYSTEM AS MANUFACTURED BY CON-STAB. TRANSITIONS FROM ABOVE GRADE RIGID PIPING TO PE BELOW GRADE PIPING SHALL BE MADE WITH ANODE-LESS RISER ASSEMBLY AS MANUFACTURED BY CON-STAB.

C. PROVIDE AND INSTALL A CUT-OFF VALVE, UNION AND FULL SIZE DIRT LEG AT CONNECTION TO EACH GAS-FIRED PIECE OF EQUIPMENT. INSTALL PIPING AT AND AROUND EQUIPMENT SO AS TO NO WAY OBSTRUCT EQUIPMENT ACCESS PANELS AND/OR ACCESS DOORS.

D. ALL GAS PIPING ABOVE ROOF SHALL BE CLEANED FREE OF RUST AND PAINTED WITH COAT OF ZINC RUST PRIMER AND ONE COAT OF ALUMINUM BASE PAINT. METER AND GAS RISER SHALL BE PRIMED AND PAINTED TO MATCH BUILDING.

E. NATURAL GAS PIPING SHALL BE LEAK TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

PART III - EXECUTION

3.01 SCOPE

A. FURNISH AND INSTALL SYSTEM IN ACCORDANCE WITH REFERENCED STANDARDS, APPLICABLE CODES, MANUFACTURER'S RECOMMENDATIONS AND AS INDICATED ON DRAWINGS.

B. CONTRACTOR SHALL INSTRUCT THE OWNER'S REPRESENTATIVE IN ALL MATTERS PERTAINING TO THE PROPER MAINTENANCE OF EQUIPMENT FURNISHED UNDER THIS CONTRACT THROUGH DEMONSTRATION AND EXPLANATION OF OPERATING & MAINTENANCE MANUALS.

C. CONTRACTOR SHALL PROVIDE A "SAMPLE MAINTENANCE PROPOSAL" TO THE OWNER'S REPRESENTATIVE IN ALL MATTERS PERTAINING TO THE PROPER MAINTENANCE OF EQUIPMENT FURNISHED UNDER THIS CONTRACT.

D. CONTRACTOR SHALL COMPLETE A/C EQUIPMENT STARTUP DOCUMENTATION PROVIDED BY OWNER AND/OR MANUFACTURER. THIS SHALL INCLUDE RE-TORQUE OF ALL FIELD AND FACTORY HIGH VOLTAGE CONNECTIONS.

3.02 LEED PROJECTS

A. CONTRACTOR SHALL COMPLETE RECEIPT INSPECTION CHECKLISTS PROVIDED IN THE COMMISSIONING PLAN WITHIN 5 DAYS OF RECEIVING EQUIPMENT ON SITE.

B. CONTRACTOR SHALL COMPLETE PRE-FUNCTIONAL CHECKLISTS PROVIDED IN THE COMMISSIONING PLAN. CHECKLISTS SHALL BE RETURNED AT LEAST 5 DAYS PRIOR TO SCHEDULING FUNCTIONAL PERFORMANCE TESTING.

C. CONTRACTOR SHALL PROVIDE A TECHNICIAN TO ASSIST THE THIRD PARTY COMMISSIONING AUTHORITY WITH FUNCTIONAL TESTING. FUNCTIONAL TESTING SHALL OCCUR AFTER ALL CONTROLS HAVE BEEN INSTALLED AND VERIFIED AND AFTER TEST AND BALANCE IS COMPLETE. THE FUNCTIONAL PERFORMANCE TEST PROCEDURES CAN BE FOUND IN THE COMMISSIONING PLAN.

D. IF THE TOTAL TIME REQUIRED TO CORRECT PROBLEMS DURING TESTING IS GREATER THAT FORTY-FIVE (45) MINUTES (UNLESS EXTENUATING CIRCUMSTANCES EXIST), THE TEST SHALL BE CONSIDERED FAILED AND MUST BE REPEATED IN ITS ENTIRETY.

E. RE-TESTING: DURING THE COURSE OF THE RETEST, IF AT ANY POINT A MAJOR DEFICIENCY IS DISCOVERED, THE TEST WILL BE STOPPED. REPEAT TESTS UNTIL ACCEPTABLE RESULTS ARE ACHIEVED. IF MORE THAN TWO FUNCTIONAL PERFORMANCE TESTS (ONE INITIAL TEST AND ONE RETEST) FOR ANY TYPE OF EQUIPMENT DUE TO ISSUES THAT THE CONTRACTOR HAD DIRECT OR INDIRECT CONTROL OVER ARE REQUIRED, THE COSTS FOR THE CXA TO WITNESS RETESTING OF SIMILAR TYPES OF EQUIPMENT UNTIL SATISFACTORY RESULTS ARE OBTAINED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

3.03 TEST & BALANCE

A. OWNER SHALL TEST AND BALANCE MECHANICAL SYSTEM IN ACCORDANCE WITH NEBB, NBC OR AABC STANDARDS TO ASSURE CONFORMANCE WITH DESIGN. G.C. WILL MAKE MECHANICAL CONTRACTOR AVAILABLE DURING TEST AND BALANCE TO ASSIST TESTING AGENCY AND TO MAKE CORRECTIONS IMMEDIATELY NECESSARY. CONTRACTOR SHALL CORRECT ITEMS ON WRITTEN TEST AND BALANCE REPORT.

B. ALL EQUIPMENT TO BE BALANCED MUST HAVE GONE THRU SUCCESSFUL START-UP PROCEDURE BY THE MECHANICAL CONTRACTOR (MC) PRIOR TO TAB VISIT.

C. THE FLOOR OF THE RESTAURANT SHALL BE CLEARED OF DEBRIS, STAGED CONSTRUCTION MATERIALS, EQUIPMENT, ETC. WHICH MAY, IN THE OPINION OF THE TAB TECHNICIAN, OBSTRUCT ACCESS TO AIR DISTRIBUTION COMPONENTS IN AND ABOVE THE CEILING.

D. EQUIPMENT ACCESS PANELS, DUCT AIR DEVICES SUCH AS BALANCING DAMPERS AND ACTUATORS SHALL BE ACCESSIBLE AND CLEAR OF PIPING, CONDUIT, FRAMING, SUPPORTS ETC...

E. PROVIDE AN 8 FT PORTABLE A-FRAME STYLE LADDER DEDICATED FOR THE TAB TECHNICIAN'S USE DURING THE ENTIRE TAB EFFORT DURATION.

KITCHEN HOOD SYSTEMS NOTES

1. CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT WITH HALTON CO. FOR THE HOODS. CHICK-FIL-A WILL PURCHASE AND PROVIDE THE HOODS FOR INSTALLATION BY THE MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING THE HOODS. CONTACT HALTON CO. AT 270-237-5600 FOR MORE INFO.
2. THE FIRE SUPPRESSION SYSTEM SHALL CONSIST OF A COMPLETE WET CHEMICAL SYSTEM FURNISHED BY HALTON. THE HOOD SHALL BE FURNISHED PRE-PIPED BY HALTON.
3. THE FIRE SUPPRESSION SYSTEM EXTERNAL TO THE HOODS SHALL BE INSTALLED IN ACCORDANCE WITH HOOD MANUFACTURER'S SHOP DRAWINGS BY AN AUTHORIZED INSTALLER SELECTED AND HIRED BY HALTON. COST FOR INSTALLATION INCLUDED IN PRICE OF HOODS TO CFA.
4. HOOD EXHAUST DUCTWORK SHALL BE 16 GA. BLACK STEEL WITH CONTINUOUS LIQUID TIGHT WELD OF JOINTS & SEAMS.
5. TURNS IN GREASE EXHAUST DUCTWORK SHALL BE LONG RADIUS TYPE, WITH A CENTERLINE RADIUS R=3W/2, UNLESS OTHERWISE NOTED. NO MITERED FITTINGS ALLOWED.
6. ALL STAINLESS STEEL CLOSURE PANELS SHALL BE SUPPLIED BY HOOD MANUFACTURER AND INSTALLED BY THE MECHANICAL CONTRACTOR ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
7. SLOPE ALL GREASE EXHAUST DUCT BACK TO HOOD AT 1/4" PER FOOT OF RUN.
8. WRAP NEW GREASE DUCT WITH 2 LAYERS OF UNIFRAX FYREWRAP. INSULATION ON ACCESS DOORS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION RECOMMENDATIONS. UNIFRAX FYREWRAP PRODUCT USED SHALL MEET LOCAL CODE REQUIREMENTS.
9. SUPPORT ALL HOODS WITH THREADED ROD AT EACH FACTORY SUPPORT POINT. EACH SUPPORT POINT MUST SUPPORT THE HOOD WEIGHT EQUALLY. ATTACH TO STRUCTURE AS DETAILED ON STRUCTURAL DRAWINGS. ATTACH HOOD TO WALL AT 16" INTERVALS ALONG FULL LENGTH OF HOOD ON TOP AND BOTTOM. ATTACHMENT TO WALL REQUIRES FIELD DRILLING OF SUPPORT ANGLE AT BACK OF HOODS. EACH WALL ATTACHMENT POINT MUST OCCUR AT A WALL STUD. ATTACHMENT HARDWARE TO BE #12-24 HEX HEAD SHEET METAL SCREW EQUAL TO TEXTRON SDS EDT265, LENGTH AS REQUIRED TO FULLY PENETRATE THE STUD.
10. PROVIDE GREASE DUCT WITH ACCESS PANEL AT EVERY ELBOW AND TURN, IF ANY.
11. AS PER 2021 IMC 506.3.6, WHERE ENCLOSURES ARE NOT REQUIRED, GREASE DUCT SYSTEMS AND EXHAUST EQUIPMENT SERVING A TYPE I HOOD SHALL HAVE A CLEARANCE TO COMBUSTIBLE CONSTRUCTION OF NOT LESS THAN 18 INCHES (457 MM), AND SHALL HAVE A CLEARANCE TO NONCOMBUSTIBLE CONSTRUCTION AND GYPSUM WALLBOARD ATTACHED TO NONCOMBUSTIBLE STRUCTURES OF NOT LESS THAN 3 INCHES (76 MM).
12. PRIOR TO THE USE OR CONCEALMENT OF ANY PORTION OF A GREASE DUCT SYSTEM, A LEAKAGE TEST SHALL BE PERFORMED. DUCTS SHALL BE CONSIDERED TO BE CONCEALED WHERE INSTALLED IN SHAFTS OR COVERED BY COATINGS OR WRAPS THAT PREVENT THE DUCTWORK FROM BEING VISUALLY INSPECTED ON ALL SIDES. THE PERMIT HOLDER SHALL BE RESPONSIBLE TO PROVIDE THE NECESSARY EQUIPMENT AND PERFORM THE GREASE DUCT LEAKAGE TEST. A LIGHT TEST SHALL BE PERFORMED TO DETERMINE THAT ALL WELDED AND BRAZED JOINTS ARE LIQUID TIGHT. 2021 IMC 506.3.2.5.
13. GREASE DUCT, SLOPE THE GREASE DUCT AT 1/4" PER LINEAR FOOT TOWARD THE HOOD. PROVIDE GREASE DUCT WITH ACCESS PANEL FOR CLEANING AT EVERY BEND OR TURN AND AT EACH 12' HORIZONTAL RUN. SLOPE HORIZONTAL GREASE DUCT AT 2% IF DUCT RUN IS LESS OR EQUAL TO 75FT. SLOPE AT 8% IF DUCT RUN IS MORE THAN 75FT.

LEGEND

A-12-400	TYPE - NECK SIZE - CFM	EF#1	EXHAUST FAN #1 (TYP.)
	SPIN-IN FITTING WITH MANUAL BALANCING DAMPER, WITHOUT SCOOP	AC#1	AIR CONDITIONING UNIT #1 (TYP.)
	SPIN-IN HARD FLEXIBLE DIFFUSER		RETURN/EXHAUST (TYP.)
S	REMOTE TEMPERATURE SENSOR		SUPPLY DIFFUSER, SQ FACE (TYP.)
H	HUMIDITY SENSOR	1	PLAN NOTE REFERENCE
SD	SMOKE DETECTOR		MANUAL VOLUME DAMPER
12x18	DUCT SIZE (reverse for elevation views) 1ST NUMBER - HORIZONTAL DIMENSION 2ND NUMBER - VERTICAL DIMENSION		DIRECTION OF THROW ON DIFFUSER
			CLOSED AIR PATTERN DEFLECTOR
SW	AIR DOOR SWITCH	GIH	GAS INFRARED HEATER (TYP.)
EIH	ELECTRIC INFRARED HEATER	B/G	BELOW GRADE
		T	THERMOSTAT

ABBREVIATIONS

EC	ELECTRICAL CONTRACTOR
GC	GENERAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
PC	PLUMBING CONTRACTOR
O.C.	ON CENTER
IRH	INFRARED HEATER
CF	CIRCULATING FAN
TF	TRANSFER FAN
EF	EXHAUST FAN

GENERAL NOTES

1. DUCT SIZES SERVING DIFFUSERS AND GRILLES ARE SAME SIZE AS DIFFUSER OR GRILLE NECK UNLESS NOTED OTHERWISE.
2. FLEXIBLE DUCT AND INSULATION NOT SHOWN FOR CLARITY.
3. FOR ALL ROOF EQUIPMENT, PROVIDE A PLASTIC ENGRAVED LABEL WITH 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. WITH A SELF ADHESIVE BACKING.
4. UNLESS NOTED OTHERWISE, MC TO ADJUST ALL DIFFUSER AIR PATTERN DEFLECTORS TO THROW HORIZONTALLY ALONG THE CEILING.
5. ALL EXHAUST DUCTWORK AND UNFINISHED METAL ON ROOF EXCEPT STAINLESS SHALL BE PREPARED WITH TWO COATS OF SHERWIN WILLAIMS PRO INDUSTRIAL DTM ACRYLIC COATING, SEMI-GLOSS, WHITE. DEGREASE AND PRIME BARE METAL SURFACE WITH ONE COAT OF SHERWIN WILLAIMS PRO INDUSTRIAL PRO-CRYLACRYLIC UNIVERSAL PRIMER, WHITE, PRIOR TO PAINTING.
6. MAINTAIN 18" CLEARANCE FROM GREASE EXHAUST DUCTWORK ABOVE ROOF TO ANY COMBUSTIBLE CONSTRUCTION INCLUDING PARAPET WALLS.

CANOPY GENERAL NOTES

1. COORDINATE WORK WITH CONDUIT, STRUCTURE, AND PIPING. FIELD VERIFY CONDITIONS PRIOR TO START OF WORK.
2. COORDINATE LOCATION AND RESPONSIBILITIES FOR UNDERGROUND PIPING AND ASSOCIATED TRENCHING WITH GENERAL CONTRACTOR PRIOR TO START OF WORK.
3. EXPOSED GAS PIPING SHALL BE COVERED WITH A RUST INHIBITING PAINT SUCH AS RUST-OLEUM 5200. PAINT COLOR SHALL MATCH STRUCTURE. ROOF MOUNTED GAS PIPING COLOR SHALL BE YELLOW.
4. CONTROL WIRING FOR HEATERS BY EC. COORDINATE REQUIRED WIRE GAUGE WITH EC. SEE CONTROLS PLAN AND ELECTRICAL DRAWINGS, (TYP.).

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FSR#05484
BUILDING TYPE / SIZE: P14 LS XPS
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CONSULTANT PROJECT # 230392
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SHEET
GENERAL NOTES, LEGENDS, SYMBOLS, AND ABBREVIATIONS
SHEET NUMBER
M-001

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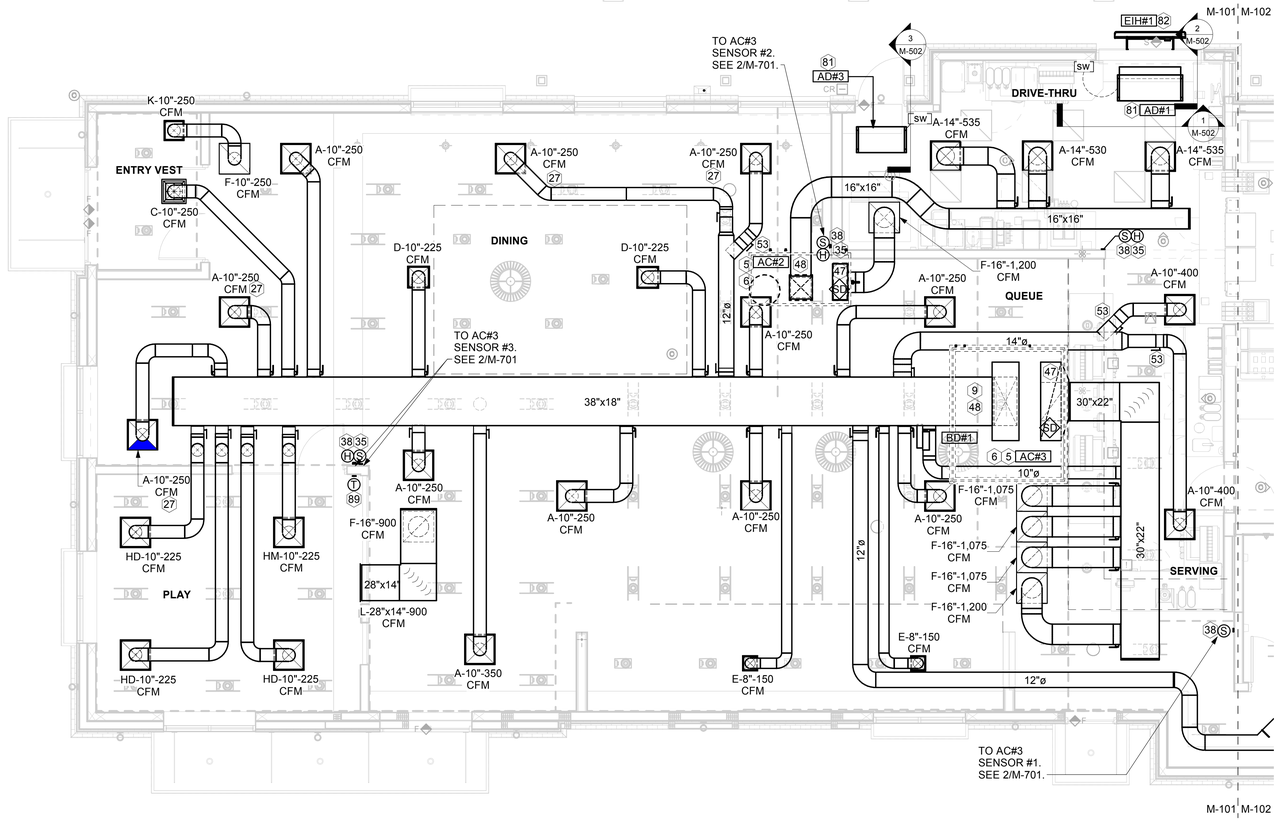
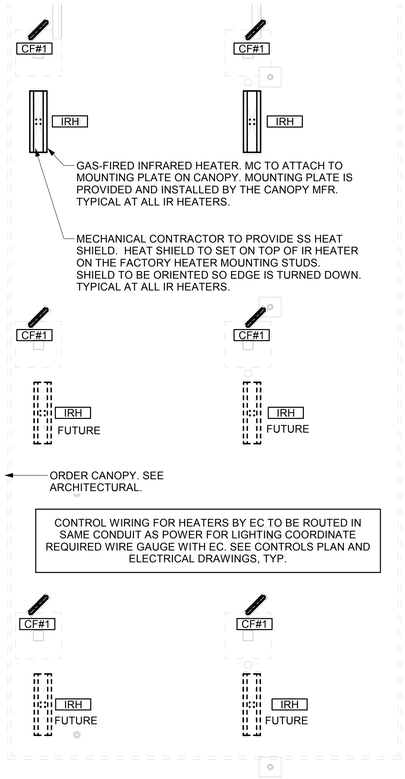
30-LS-05484-M-001-GENERAL NOTES, LEGENDS, SYMBOLS, AND ABBREVIATIONS



1 EQUIPMENT AND DUCTWORK PLAN - A

1/4" = 1'-0"



2 MECHANICAL FLOOR PLAN - ORDER CANOPY

1/4" = 1'-0"

AIR BALANCE SCHEDULE

MARK	SUPPLY AIR	RETURN AIR	OUTSIDE AIR	EXHAUST AIR	BUILDING POSITIVE PRESSURE
AC#1	8,125 CFM	6,375 CFM	1,750 CFM	0 CFM	
AC#2	1,600 CFM	1,200 CFM	400 CFM	0 CFM	
AC#3	6,325 CFM	4,425 CFM	1,900 CFM	0 CFM	
AC#4	1,750 CFM	1,250 CFM	500 CFM	0 CFM	
EF#1	0 CFM	0 CFM	0 CFM	1,913 CFM	
EF#2	0 CFM	0 CFM	0 CFM	1,402 CFM	
EF#3	0 CFM	0 CFM	0 CFM	300 CFM	
	17,800 CFM	13,250 CFM	4,550 CFM	3,615 CFM	935 CFM

2

Climate Zone (CZ)	Infrared Heaters
8	Yes
7	Yes
6B	Yes
6A	Yes
5C	Yes
5B	Yes
5A	Yes
4C	No*
4B	Yes
4A	Yes
3C	No*
3B	No*
3A	Yes
2B	No*
2A	No
1B	No
1A	No

*Infrared heaters may be provided at the discretion of the engineer

SHEET NOTES

1. DUCT SIZES SERVING DIFFUSERS AND GRILLES ARE SAME SIZE AS DIFFUSER OR GRILLE NECK UNLESS NOTED OTHERWISE.
2. FLEXIBLE DUCT NOT SHOWN FOR CLARITY. ALL TAKE-OFFS SHALL INCLUDE FLEXIBLE DUCT. SEE DETAIL 1/M-401 FOR FLEXIBLE DUCT INSTALLATION REQUIREMENTS.
3. FOR SUPPLY AND RETURN OPENINGS, CUT OPENING AROUND DUCT DROPS 4" TO 8" MINIMUM (EXCEPT WHERE STRUCTURE PREVENTS THIS). SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
4. AT EACH PIECE OF ROOF EQUIPMENT, PROVIDE A PLASTIC ENGRAVED LABEL WITH 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. THE LABEL IS TO HAVE A SELF ADHESIVE BACKING.
5. UNLESS NOTED OTHERWISE, MC TO ADJUST ALL DIFFUSER AIR PATTERN DEFLECTORS TO THROW HORIZONTALLY ALONG THE CEILING.
6. SUPPORT ALL DUCT DROPS AT BASE OF DROP FROM STRUCTURE.
7. PROVIDE GREASE DUCT WITH ACCESS PANEL AT EVERY ELBOW AND TURN, IF ANY.
10. PROVIDE GREASE DUCT WITH ACCESS PANEL AT EVERY ELBOW AND TURN, IF ANY.
11. AS PER 2021 IMC 506.3.6, WHERE ENCLOSURES ARE NOT REQUIRED, GREASE DUCT SYSTEMS AND EXHAUST EQUIPMENT SERVING A TYPE I HOOD SHALL HAVE A CLEARANCE TO COMBUSTIBLE CONSTRUCTION OF NOT LESS THAN 18 INCHES (457 MM), AND SHALL HAVE A CLEARANCE TO NONCOMBUSTIBLE CONSTRUCTION AND GYPSUM WALLBOARD ATTACHED TO NONCOMBUSTIBLE STRUCTURES OF NOT LESS THAN 3 INCHES (76 MM).
12. PRIOR TO THE USE OR CONCEALMENT OF ANY PORTION OF A GREASE DUCT SYSTEM, A LEAKAGE TEST SHALL BE PERFORMED. DUCTS SHALL BE CONSIDERED TO BE CONCEALED WHERE INSTALLED IN SHAFTS OR COVERED BY COATINGS OR WRAPS THAT PREVENT THE DUCTWORK FROM BEING VISUALLY INSPECTED ON ALL SIDES. THE PERMIT HOLDER SHALL BE RESPONSIBLE TO PROVIDE THE NECESSARY EQUIPMENT AND PERFORM THE GREASE DUCT LEAKAGE TEST. A LIGHT TEST SHALL BE PERFORMED TO DETERMINE THAT ALL WELDED AND BRAZED JOINTS ARE LIQUID TIGHT. 2021 IMC 506.3.2.5.
13. GREASE DUCT, SLOPE THE GREASE DUCT AT 1/4" PER LINEAR FOOT TOWARD THE HOOD. PROVIDE GREASE DUCT WITH ACCESS PANEL FOR CLEANING AT EVERY BEND OR TURN AND AT EACH 12' HORIZONTAL RUN. SLOPE HORIZONTAL GREASE DUCT AT 2% IF DUCT RUN IS LESS OR EQUAL TO 75FT. SLOPE AT 8% IF DUCT RUN IS MORE THAN 75FT.
14. GREASE DUCTS SERVING TYPE I HOODS SHALL BE CONSTRUCTED OF STEEL HAVING A MINIMUM THICKNESS OF 0.0575 INCH (NO. 16 GAGE) OR STAINLESS STEEL NOT LESS THAN 0.0450 INCH (NO. 18 GAGE) IN THICKNESS. [2021 IMC 506.3.1.1]
15. DUCT JOINTS SHALL BE BUTT JOINTS, WELDED FLANGE JOINTS WITH A MAXIMUM FLANGE DEPTH OF 1/2 INCH OR OVERLAPPING DUCT JOINTS OF EITHER THE TELESCOPING OR BELL TYPE. OVERLAPPING JOINTS SHALL BE INSTALLED TO PREVENT LEDGES AND OBSTRUCTIONS FROM COLLECTING GREASE OR INTERFERING WITH GRAVITY DRAINAGE TO THE INTENDED COLLECTION POINT. THE DIFFERENCE BETWEEN THE INSIDE CROSS-SECTIONAL DIMENSIONS OF OVERLAPPING SECTIONS OF DUCT SHALL NOT EXCEED 1/4 INCH. THE LENGTH OF OVERLAPPING DUCT JOINTS SHALL NOT EXCEED 2 INCHES. [2021 IMC 506.3.2.1]

KEY NOTES

5 PROVIDE DUCT MOUNTED SMOKE DETECTOR AT RETURN PLENUM. DUCT SMOKE DETECTOR SHUTS DOWN UNIT UPON DETECTION OF SMOKE.
6 NEW SUPPLY AND RETURN PLENUMS UP TO ROOF.
9 BRANCH TAKE-OFFS ARE NOT TO BE LOCATED CLOSER THAN 3'-0" FROM ANY OFFSET OR ELBOW INCLUDING THE SUPPLY AIR DROP FROM CURB.
27 MECHANICAL CONTRACTOR TO CLOSE THE AIR PATTERN DEFLECTORS ON SHADED SIDE.
35 MOUNT HUMIDITY SENSOR ON WALL ABOVE SPACE TEMP SENSOR AND ROUTE WIRING TO UNIT ON ROOF.
38 MOUNT REMOTE SENSOR ON WALL AT 5'-0" AFF U.N.O. AND ROUTE WIRING BACK TO SUNCOAST TEMP CONTROL PANEL. FOR SENSOR SERVING AC#1, COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT.
47 TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. SEE DETAIL 5/M-501 FOR REQUIRED TRANSITION GEOMETRY. TRANSITION WITHIN CURB WHERE REQUIRED TO AVOID STRUCTURE. WHERE THE DUCT IS SHOWN OFFSET HORIZONTALLY, PROVIDE ELBOW WITHOUT TURNING VANES. FOR DROPS WITH NO HORIZONTAL OFFSET, EXTEND DROP BELOW STRUCTURE TO ACCOMMODATE START COLLARS. TERMINATE DROP A MINIMUM 0'-10" ABOVE CEILING (0'-4" ABOVE CEILING IF REQUIRED TO ACCOMMODATE TAKE-OFF AND DROP IS NOT LOCATED DIRECTLY ABOVE A LIGHT).
48 TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. TRANSITION WITHIN CURB WHERE REQUIRED TO AVOID STRUCTURE. WHERE THE DUCT IS SHOWN OFFSET HORIZONTALLY, PROVIDE ELBOW WITH TURNING VANES. FOR DROPS WITH NO HORIZONTAL OFFSET, EXTEND DROP BELOW STRUCTURE TO ACCOMMODATE START COLLARS. TERMINATE DROP A MINIMUM 0'-10" ABOVE CEILING (0'-4" ABOVE CEILING IF REQUIRED TO ACCOMMODATE TAKE-OFF AND DROP IS NOT LOCATED DIRECTLY ABOVE A LIGHT).
53 RUSKIN MDRS25 MVD W/LOCKING QUADRANT HANDLE.
81 MOUNT AIR DOOR IN CEILING. CENTERED ON DRIVE-THRU/MFA DOOR OPENING. REFER TO WIRING DIAGRAM ON SHEET M-701 FOR MORE INFORMATION.
82 ELECTRIC HEATER. MC TO MOUNT ON WALL PER MANUFACTURER'S RECOMMENDATIONS.
2 89 THERMOSTAT FOR VAV DIFFUSERS, PROVIDE WITH LOCKING COVER.

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FSR#05484

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RELEASE: 23.09
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SHEET
EQUIPMENT AND DUCTWORK PLAN - A - LENNOX 2
SHEET NUMBER
M-101

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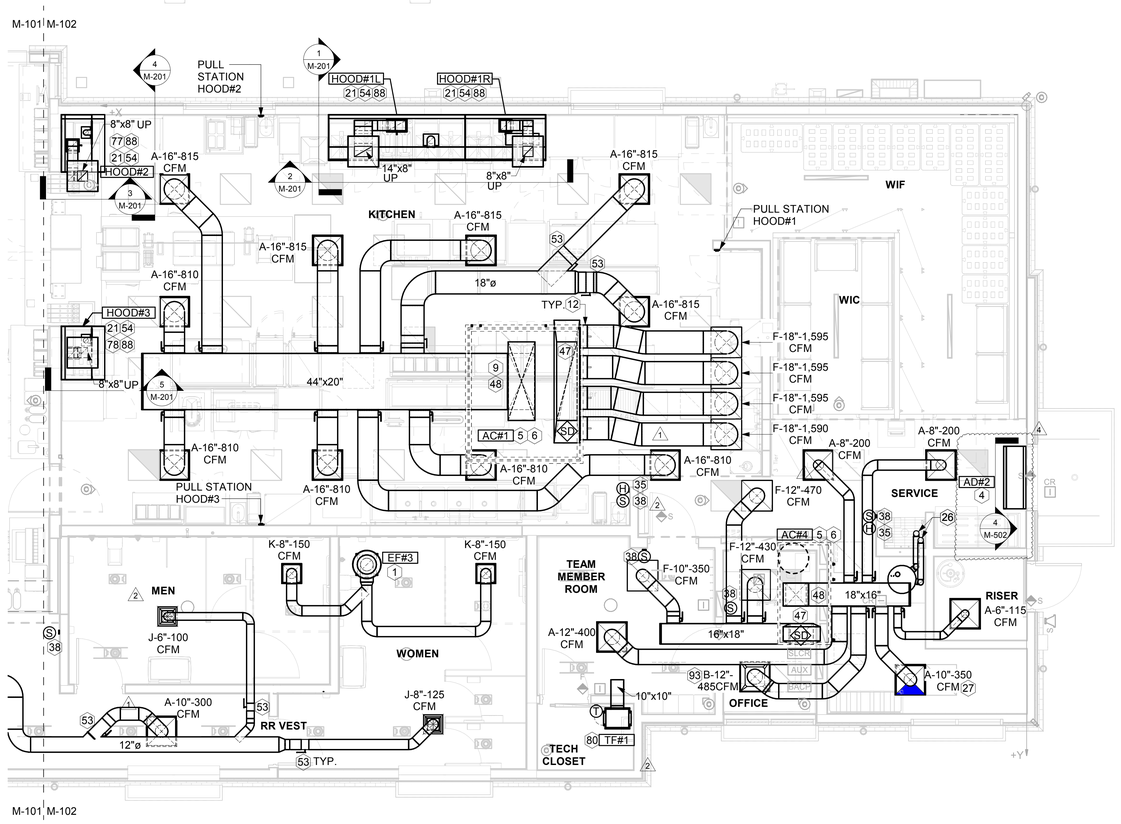

1 EQUIPMENT AND DUCTWORK PLAN - B

1/4" = 1'-0"

AIR BALANCE SCHEDULE

MARK	SUPPLY AIR	RETURN AIR	OUTSIDE AIR	EXHAUST AIR	BUILDING POSITIVE PRESSURE
AC#1	8,125 CFM	6,375 CFM	1,750 CFM	0 CFM	
AC#2	1,600 CFM	1,200 CFM	400 CFM	0 CFM	
AC#3	6,325 CFM	4,425 CFM	1,900 CFM	0 CFM	
AC#4	1,750 CFM	1,250 CFM	500 CFM	0 CFM	
EF#1	0 CFM	0 CFM	0 CFM	1,913 CFM	
EF#2	0 CFM	0 CFM	0 CFM	1,402 CFM	
EF#3	0 CFM	0 CFM	0 CFM	300 CFM	
	17,800 CFM	13,250 CFM	4,550 CFM	3,615 CFM	935 CFM

SHEET NOTES

1. DUCT SIZES SERVING DIFFUSERS AND GRILLES ARE SAME SIZE AS DIFFUSER OR GRILLE NECK UNLESS NOTED OTHERWISE.
2. FLEXIBLE DUCT NOT SHOWN FOR CLARITY. ALL TAKE-OFFS SHALL INCLUDE FLEXIBLE DUCT. SEE DETAIL 1/M-401 FOR FLEXIBLE DUCT INSTALLATION REQUIREMENTS.
3. FOR SUPPLY AND RETURN OPENINGS, CUT OPENING AROUND DUCT DROPS 4" TO 8" MINIMUM (EXCEPT WHERE STRUCTURE PREVENTS THIS). SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
4. AT EACH PIECE OF ROOF EQUIPMENT, PROVIDE A PLASTIC ENGRAVED LABEL WITH 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. THE LABEL IS TO HAVE A SELF ADHESIVE BACKING.
5. UNLESS NOTED OTHERWISE, MC TO ADJUST ALL DIFFUSER AIR PATTERN DEFLECTORS TO THROW HORIZONTALLY ALONG THE CEILING.
6. SUPPORT ALL DUCT DROPS AT BASE OF DROP FROM STRUCTURE.
7. PROVIDE GREASE DUCT WITH ACCESS PANEL AT EVERY ELBOW AND TURN, IF ANY.
10. PROVIDE GREASE DUCT WITH ACCESS PANEL AT EVERY ELBOW AND TURN, IF ANY.
11. AS PER 2021 IMC 506.3.6, WHERE ENCLOSURES ARE NOT REQUIRED, GREASE DUCT SYSTEMS AND EXHAUST EQUIPMENT SERVING A TYPE I HOOD SHALL HAVE A CLEARANCE TO COMBUSTIBLE CONSTRUCTION OF NOT LESS THAN 18 INCHES (457 MM), AND SHALL HAVE A CLEARANCE TO NONCOMBUSTIBLE CONSTRUCTION AND GYPSUM WALLBOARD ATTACHED TO NONCOMBUSTIBLE STRUCTURES OF NOT LESS THAN 3 INCHES (76 MM).
12. PRIOR TO THE USE OR CONCEALMENT OF ANY PORTION OF A GREASE DUCT SYSTEM, A LEAKAGE TEST SHALL BE PERFORMED. DUCTS SHALL BE CONSIDERED TO BE CONCEALED WHERE INSTALLED IN SHAFTS OR COVERED BY COATINGS OR WRAPS THAT PREVENT THE DUCTWORK FROM BEING VISUALLY INSPECTED ON ALL SIDES. THE PERMIT HOLDER SHALL BE RESPONSIBLE TO PROVIDE THE NECESSARY EQUIPMENT AND PERFORM THE GREASE DUCT LEAKAGE TEST. A LIGHT TEST SHALL BE PERFORMED TO DETERMINE THAT ALL WELDED AND BRAZED JOINTS ARE LIQUID TIGHT. 2021 IMC 506.3.2.5.
13. GREASE DUCT, SLOPE THE GREASE DUCT AT 1/4" PER LINEAR FOOT TOWARD THE HOOD. PROVIDE GREASE DUCT WITH ACCESS PANEL FOR CLEANING AT EVERY BEND OR TURN AND AT EACH 12' HORIZONTAL RUN. SLOPE HORIZONTAL GREASE DUCT AT 2% IF DUCT RUN IS LESS OR EQUAL TO 75FT. SLOPE AT 8% IF DUCT RUN IS MORE THAN 75FT.
14. GREASE DUCTS SERVING TYPE I HOODS SHALL BE CONSTRUCTED OF STEEL HAVING A MINIMUM THICKNESS OF 0.0575 INCH (NO. 16 GAGE) OR STAINLESS STEEL NOT LESS THAN 0.0450 INCH (NO. 18 GAGE) IN THICKNESS. [2021 IMC 506.3.1.1]
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KEY NOTES

1	10"EA UP THRU ROOF.
4	AIR CURTAIN MOUNTED OVER DOOR HEADER AT 7'-2" AFF TO BOTTOM OF UNIT. PROVIDE BLOCKING IN WALL BEHIND AIR CURTAIN. USE FACTORY PRE-PUNCHED MOUNTING HOLES ON BACK SIDE OF AIR CURTAIN ONLY. ATTACH AIR CURTAIN TO WALL USING 3/8" LAG BOLTS, LENGTH AS REQUIRED TO FULLY PENETRATE BLOCKING. LOCATE MAGNETIC CONTACT TYPE MICROSWITCH IN DOOR FRAME ON STRIKE SIDE.
5	PROVIDE DUCT MOUNTED SMOKE DETECTOR AT RETURN PLENUM. DUCT SMOKE DETECTOR SHUTS DOWN UNIT UPON DETECTION OF SMOKE.
6	NEW SUPPLY AND RETURN PLENUMS UP TO ROOF.
9	BRANCH TAKE-OFFS ARE NOT TO BE LOCATED CLOSER THAN 3'-0" FROM ANY OFFSET OR ELBOW INCLUDING THE SUPPLY AIR DROP FROM CURB.
12	DAMPER HANDLES SHOULD BE INSTALLED SUCH THAT THE DAMPERS ROTATION AXIS IS PERPENDICULAR TO THE FLOOR WITH THE HANDLE FULLY ACCESSIBLE UNDERNEATH THE DUCT IT CONTROLS. (TYPICAL OF ALL DAMPERS AT THE SAME PLENUM.)
21	HALTON KBD DAMPER AT HOOD COLLAR BY MECHANICAL CONTRACTOR. SEE HOOD ELEVATIONS ON M-201 FOR LOCATION.
26	4"CONCENTRIC FLUE VENT UP TO ROOF. REFER TO MANUFACTURER MANUAL FOR CLEARANCE AND INSTALLATION GUIDANCE.
27	MECHANICAL CONTRACTOR TO CLOSE THE AIR PATTERN DEFLECTORS ON SHADED SIDE.
35	MOUNT HUMIDITY SENSOR ON WALL ABOVE SPACE TEMP SENSOR AND ROUTE WIRING TO UNIT ON ROOF.
38	MOUNT REMOTE SENSOR ON WALL AT 5'-0" AFF U.N.O. AND ROUTE WIRING BACK TO SUNCOAST TEMP CONTROL PANEL. FOR SENSOR SERVING AC#1, COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT.
47	TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. SEE DETAIL 5/M-501 FOR REQUIRED TRANSITION GEOMETRY. TRANSITION WITHIN CURB WHERE REQUIRED TO AVOID STRUCTURE. WHERE THE DUCT IS SHOWN OFFSET HORIZONTALLY, PROVIDE ELBOW WITHOUT TURNING VANES. FOR DROPS WITH NO HORIZONTAL OFFSET, EXTEND DROP BELOW STRUCTURE TO ACCOMMODATE START COLLARS. TERMINATE DROP A MINIMUM 0'-10" ABOVE CEILING (0'-4" ABOVE CEILING IF REQUIRED TO ACCOMMODATE TAKE-OFF AND DROP IS NOT LOCATED DIRECTLY ABOVE A LIGHT).
48	TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. TRANSITION WITHIN CURB WHERE REQUIRED TO AVOID STRUCTURE. WHERE THE DUCT IS SHOWN OFFSET HORIZONTALLY, PROVIDE ELBOW WITH TURNING VANES. FOR DROPS WITH NO HORIZONTAL OFFSET, EXTEND DROP BELOW STRUCTURE TO ACCOMMODATE START COLLARS. TERMINATE DROP A MINIMUM 0'-10" ABOVE CEILING (0'-4" ABOVE CEILING IF REQUIRED TO ACCOMMODATE TAKE-OFF AND DROP IS NOT LOCATED DIRECTLY ABOVE A LIGHT).
53	RUSKIN MDRS25 MVD W/LOCKING QUADRANT HANDLE.
54	SEE ELEVATIONS ON M-201 FOR CJ FAN DUCTING REQUIREMENT.
77	INSTALL LEFT SIDE OF HOOD FLUSH WITH FINISHED EDGE OF PASS-THRU OPENING.
78	INSTALL RIGHT SIDE OF HOOD WITH FINISHED EDGE OF PASS-THRU OPENING.
80	CEILING MOUNTED RECIRCULATING FAN. DUCT AND DISCHARGE ABOVE CEILING.
88	PULL STATION FOR KITCHEN EXHAUST HOOD MOUNTED 42" TO 48" A.F.F. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT ELEVATIONS. JUNCTION BOX AND CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR. PROVIDE PLASTIC ENGRAVED LABEL - RED WITH 1" HIGH WHITE LETTERING. LABELS SHALL BE AS FOLLOWS: HOOD #1 - "MAIN COOKLINE", HOOD #2 - "PASS THRU - RIGHT", HOOD #3 - "PASS THRU - LEFT".
93	MAXIMUM HEATING AND COOLING AIRFLOWS INDICATED. SET MINIMUM AIRFLOW TO 25 CFM.

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FSR#05484

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2	08/22/2025	Plan Check - Rev 2
4	10/20/2025	Plan Check - Rev 4

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SHEET
EQUIPMENT AND DUCTWORK PLAN - B - LENNOX
SHEET NUMBER
M-102 2

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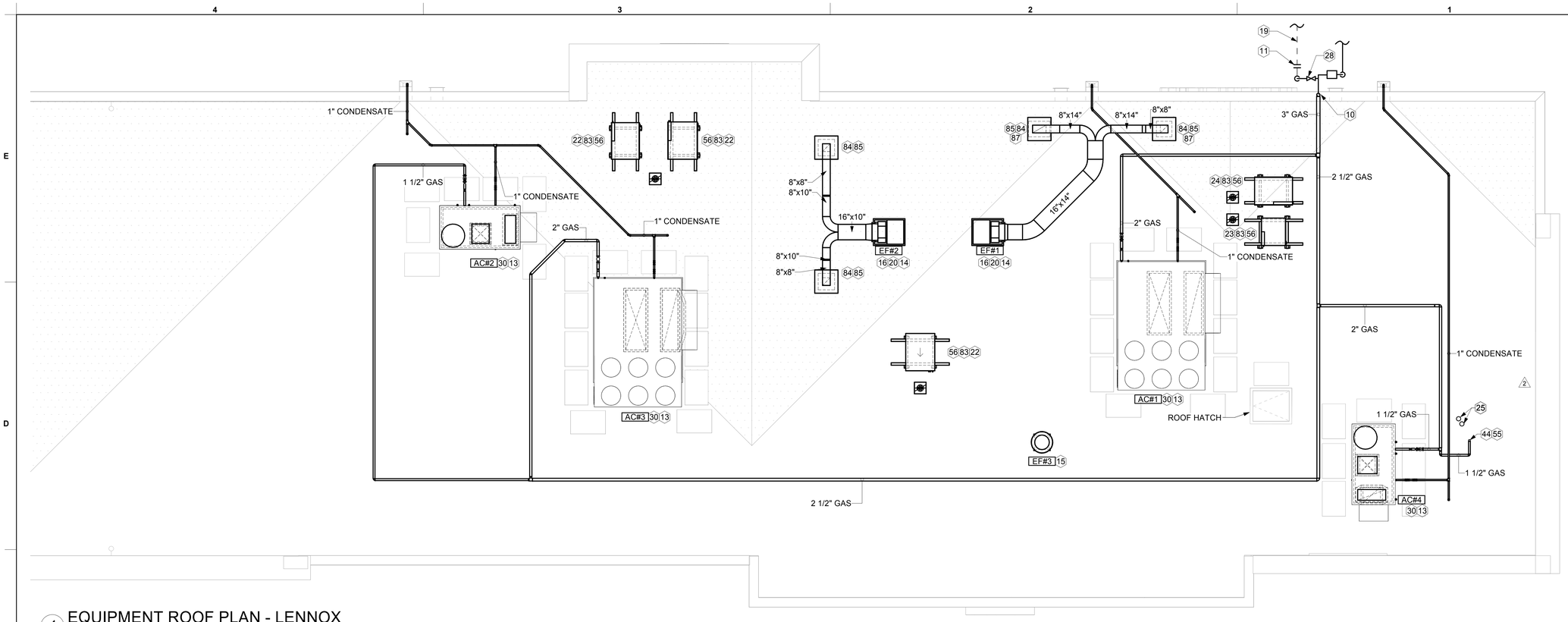


1 EQUIPMENT ROOF PLAN - LENNOX
1/4" = 1'-0"

KEY NOTES

10 TURN 3" GAS UP WITHIN WALL, THRU PARAPET AND ONTO ROOF.

11 ROUTE POLYETHYLENE GAS BELOW GRADE FROM THE METER. FOR TRANSITION FROM POLYETHYLENE PIPING BELOW GRADE TO STEEL AT THE METER, INSTALL ANODELESS RISER WITH INTEGRAL CONSTAB PE-TO-IPS TRANSITION FITTING BY CONTINETAL INDUSTRIES OR EQUAL BY ELSTER.

13 NEW PACKAGED GAS HEATING/ELECTRIC COOLING ROOFTOP UNIT. MAINTAIN MANUFACTURER RECOMMENDED CLEARANCE FOR SERVICE AND MAINTENANCE. CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION.

14 NEW UPBLAST UTILITY SET KITCHEN EXHAUST FAN. MAINTAIN MANUFACTURER RECOMMENDED CLEARANCE FOR SERVICE AND MAINTENANCE.

15 NEW ROOF MOUNTED EXHAUST FAN ON FACTORY 12" HIGH ROOF CURB. TERMINATION TO BE MIN. 10' AWAY FROM ANY BUILDING OPENING AND OUTSIDE AIR INTAKE.

16 FABRICATE DISCHARGE AIR NOZZLE. VERIFY EXHAUST TERMINATION IS A MINIMUM 10'-0" FROM PARAPETS AND OUTSIDE AIR INTAKES. REFER TO M-803 AND M-804 FOR DETAILS.

19 1-1/2" GAS BELOW GRADE TO ORDER CANOPY, SEE DETAIL 2 THIS SHEET.

20 GREASE EXHAUST DUCT LOCATED ON ROOF SHALL SLOPE 1/4" PER FOOT TOWARDS THE HOOD, THE FAN, OR A COMBINATION OF THE TWO SUCH THAT NO PORTION OF THE RADIUS ELBOW AT THE CURB IS BELOW THE CURB CAP AND SUCH THAT THE FAN BASE SETS DIRECTLY ON THE CURB RAILS. THE BOTTOM OF THE RADIUS ELBOW MAY BE EVEN OR FLUSH WITH THE CURB CAP, BUT NOT BELOW THE CAP. THE DUCT AT THE FAN MUST BE CENTERED ON THE FAN INLET. THE MC MAY ADD A VERTICAL RISER AT THE RADIUSED ELBOW LOCATED AT THE DUCT CURB AS NEEDED IN ORDER TO CENTER THE DUCT ON THE FAN INLET.

22 ICE MAKER CONDENSING UNIT. SHOWN FOR REFERENCE ONLY.

23 WALK-IN COOLER CONDENSING UNIT. SHOWN FOR REFERENCE ONLY.

24 △2 WALK-IN FREEZER CONDENSING UNIT. SHOWN FOR REFERENCE ONLY.

25 4"CONCENTRIC FLUE VENT DOWN TO SPACE. REFER TO MANUFACTURER MANUAL FOR CLEARANCE AND INSTALLATION GUIDANCE. PROVIDE A CONCENTRIC CAP AT THE TERMINATION.

28 PROVIDE FULL PORT BALL VALVE EQUAL TO APOLLO 50GB SERIES WITH WINGS HANDLE OPTION ABOVE GRADE AT THE METER. PROVIDE BRASS VALVE TAG WITH JACK CHAIN AT VALVE MARKED "SERVICE SHUTOFF FOR CANOPY HEATERS."

30 MECHANICAL CONTRACTOR TO SEE ARCHITECTURAL ROOF PLAN FOR NOTES REGARDING LEVELING FRAMES FOR RTUS. COORDINATE WITH GENERAL CONTRACTOR EXACT LOCATIONS AND SIZE NEEDED.

44 1-1/2" GAS DOWN THRU ROOF TO WATER HEATER. SEE DETAIL 3/P-502 FOR MORE INFORMATION ON CONSTRUCTION AND PENETRATION. WHEN CONTRACTOR OPTS TO PROVIDE ALTERNATIVE WATER-HEATER, INCREASE PIPE SIZE AS NEEDED PER CODE.

55 SEE ARCHITECTURAL DETAILS FOR ROOFTOP PIPE PENETRATIONS.

56 GC SHALL PROVIDE EQUIPMENT STANDS AS MANUFACTURERED BY AVCOA OR EQUAL. STANDS SHALL BE INSTALLED PRIOR TO ROOF INSULATION SO THAT THE INSULATION IS CONTINUOUS UP TO THE PIPE POSTS. POSTS SHALL BE FLASHED IN ACCORDANCE WITH ROOFING MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATE BLOCKING BELOW THE ROOF DECK AS REQUIRED.

83 DO NOT DISCHARGE OF CONDENSING UNITS INTO CONDENSER SECTION OF ROOFTOP UNITS, TYP.

84 ROOF CURB FOR DUCT PENETRATION. REFER TO M-803 AND M-804 FOR DETAILS.

85 TURN DOWN THRU ROOF. SEE M-101 FOR CONTINUATION.

87 DUCT PENETRATIONS ON ROOF MUST BE AT LEAST 18" FROM ADJACENT PARAPETS.

95 GAS PIPING TO BE ROUTED ABOVE CANOPY, ON TOP OF STRUCTURAL MEMBERS, EXCEPT WHERE ROUTED DOWN THROUGH PENETRATIONS AS INDICATED.

96 GAS PIPING DOWN THROUGH DECK. WEATHERPROOF DECK PENETRATION PER DETAIL 6/M-503, TYPICAL.

97 SEE DETAIL 1/M-503 FOR PIPING AT IRH, TYPICAL.

98 GAS TRANSITION FITTING TO GAS PIPE STUB-OUT. GAS PIPING INSIDE COLUMN AND STUB-OUTS BY CANOPY MFR. JOIN UNDERGROUND POLYETHYLENE GAS PIPING TO TRANSITION FITTING WITH ELSTER PERMASERT COUPLING. CANOPY MFR'S EXPOSED STEEL PIPING BELOW GRADE SHALL BE PROTECTED WITH TWO COATS ASPHALT TUM BASE PAINT AND POLY SLEEVE.

99 1-1/2" GAS B/G TO METER SEE 1/M-102.

SHEET NOTES

1. ALL DUCTWORK AND UNFINISHED METAL ON ROOF EXCEPT STAINLESS SHALL BE PREPARED WITH TWO COATS OF SHERWIN WILLIAMS PRO INDUSTRIAL DTM ACRYLIC COATING, SEMI-GLOSS, WHITE. DEGREASE AND RPIME BARE METAL SURFACE WITH ONE COAT OF SHERWIN WILLIAMS PRO INDUSTRIAL PRO-CRYL ACRYLIC UNIVERSAL PRIMER, WHITE, PRIOR TO PAINTING.

2. AT EACH PIECE OF ROOF EQUIPMENT, PROVIDE A PLASTIC ENGRAVED LABEL WITH 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. THE LABEL IS TO HAVE A SELF ADHESIVE BACKING.

3. MAINTAIN 18" CLEARANCE FROM GREASE EXHAUST DUCTWORK ABOVE ROOF TO ANY COMBUSTIBLE CONSTRUCTION INCLUDING PARAPET WALLS.

4. PROVIDE GREASE DUCT WITH ACCESS PANEL AT EVERY ELBOW AND TURN, IF ANY.

5. AS PER 2021 IMC 506.3.6, WHERE ENCLOSURES ARE NOT REQUIRED, GREASE DUCT SYSTEMS AND EXHAUST EQUIPMENT SERVING A TYPE I HOOD SHALL HAVE A CLEARANCE TO COMBUSTIBLE CONSTRUCTION OF NOT LESS THAN 18 INCHES (457 MM), AND SHALL HAVE A CLEARANCE TO NONCOMBUSTIBLE CONSTRUCTION AND GYPSUM WALLBOARD ATTACHED TO NONCOMBUSTIBLE STRUCTURES OF NOT LESS THAN 3 INCHES (76 MM).

6. PRIOR TO THE USE OR CONCEALMENT OF ANY PORTION OF A GREASE DUCT SYSTEM, A LEAKAGE TEST SHALL BE PERFORMED. DUCTS SHALL BE CONSIDERED TO BE CONCEALED WHERE INSTALLED IN SHAFTS OR COVERED BY COATINGS OR WRAPS THAT PREVENT THE DUCTWORK FROM BEING VISUALLY INSPECTED ON ALL SIDES. THE PERMIT HOLDER SHALL BE RESPONSIBLE TO PROVIDE THE NECESSARY EQUIPMENT AND PERFORM THE GREASE DUCT LEAKAGE TEST. A LIGHT TEST SHALL BE PERFORMED TO DETERMINE THAT ALL WELDED AND BRAZED JOINTS ARE LIQUID TIGHT. 2021 IMC 506.3.2.5.

7. GREASE DUCT, SLOPE THE GREASE DUCT AT 1/4" PER LINEAR FOOT TOWARD THE HOOD. PROVIDE GREASE DUCT WITH ACCESS PANEL FOR CLEANING AT EVERY BEND OR TURN AND AT EACH 12' HORIZONTAL RUN. SLOPE HORIZONTAL GREASE DUCT AT 2% IF DUCT RUN IS LESS OR EQUAL TO 75FT. SLOPE AT 8% IF DUCT RUN IS MORE THAN 75FT.

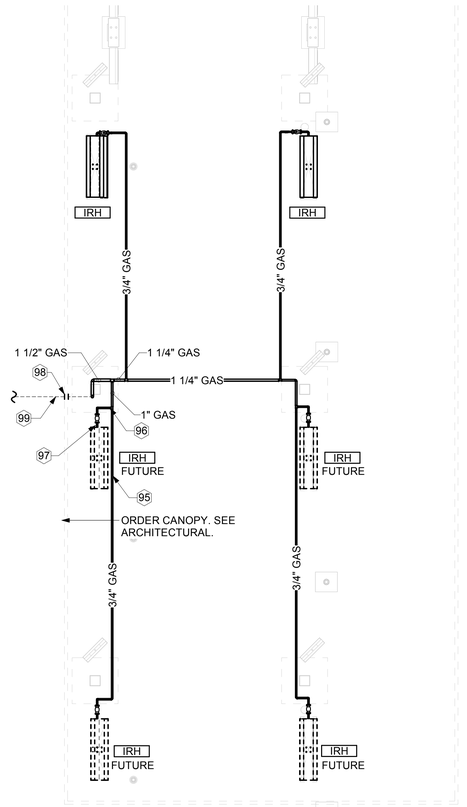
8. ALL PLUMBING VENTS AND MECHANICAL/KITCHEN EXHAUST SHALL BE INSTALLED MINIMUM 10'-0" AWAY FROM ANY FRESH AIR INTAKES. △2

9. GREASE DUCTS SERVING TYPE I HOODS SHALL BE CONSTRUCTED OF STEEL HAVING A MINIMUM THICKNESS OF 0.0575 INCH (NO. 16 GAGE) OR STAINLESS STEEL NOT LESS THAN 0.0450 INCH (NO. 18 GAGE) IN THICKNESS. [2021 IMC 506.3.1.1]

10. DUCT JOINTS SHALL BE BUTT JOINTS, WELDED FLANGE JOINTS WITH A MAXIMUM FLANGE DEPTH OF 1/2 INCH OR OVERLAPPING DUCT JOINTS OF EITHER THE TELESCOPING OR BELL TYPE. OVERLAPPING JOINTS SHALL BE INSTALLED TO PREVENT LEDGES AND OBSTRUCTIONS FROM COLLECTING GREASE OR INTERFERING WITH GRAVITY DRAINAGE TO THE INTENDED COLLECTION POINT. THE DIFFERENCE BETWEEN THE INSIDE CROSS-SECTIONAL DIMENSIONS OF OVERLAPPING SECTIONS OF DUCT SHALL NOT EXCEED 1/4 INCH. THE LENGTH OF OVERLAPPING DUCT JOINTS SHALL NOT EXCEED 2 INCHES. [2021 IMC 506.3.2.1]

3. GAS LOAD SCHEDULE

EQUIPMENT	GAS LOAD
AC#1	480,000 BTUS
AC#2	150,000 BTUS
AC#3	360,000 BTUS
AC#4	150,000 BTUS
IRH (2 @ 50,000 BTU EA.)	100,000 BTUS
IRH (FUTURE 4 @ 50,000 BTU EA.)	200,000 BTUS △2
WATER HEATER	150,000 BTUS
TOTAL BASIS OF DESIGN LOAD	1,390,000 BTUS
TOTAL FUTURE CONNECTED LOAD	1,590,000 BTUS
REMARKS:	1. EQUIVALENT TO 1,590.0 CFH △2 2. 7" W.C. DELIVERY PRESSURE 3. DEVELOPED LENGTH: 200 FT, (METER TO AC#2) 4. GAS PIPING SIZED FOR FUTURE LOAD



2 ORDER CANOPY GAS PIPING PLAN
1/4" = 1'-0"

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5200 Buffington Road
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LICENSED PROFESSIONAL ENGINEER

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CUSTER & WASHINGTON
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HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE: P14 LS XPS
RELEASE: 23.09
PRINTED FOR
Plan Check-Rev 4

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
2	08/22/2025	Plan Check - Rev 2

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CONSULTANT PROJECT # 230392
DATE 01/30/24
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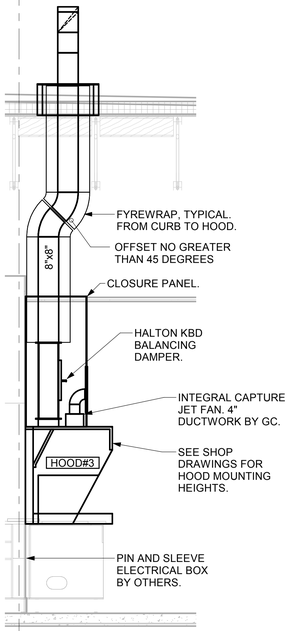
SHEET
EQUIPMENT ROOF PLAN - LENNOX

SHEET NUMBER
M-103 △2

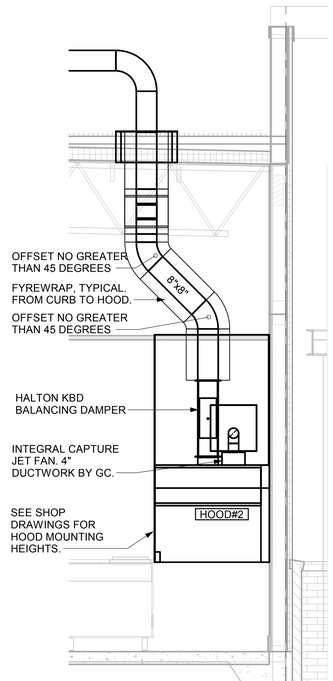
Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR05484_Custer & Washington FSU_MEC.rvt
10/23/2025 10:33:58 AM
30-LS-05484-M-103-EQUIPMENT ROOF PLAN - LENNOX

GREASE EXHAUST DUCT CLEARANCE NOTE:
CLEARANCES ABOVE CEILING ARE TIGHT. MECHANICAL CONTRACTOR TO FIELD VERIFY EXACT ROUTING AND CLEARANCES PRIOR TO FABRICATING GREASE EXHAUST DUCT.

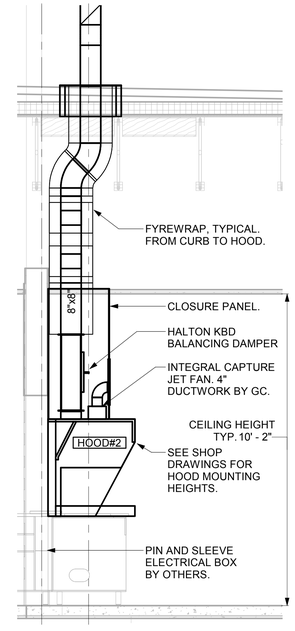
CLEANOUT DOOR NOTE:
1) DUCT WRAP SHALL BE APPLIED TO THE CLEANOUT DOOR PER THE WRAP MFR'S INSTALLATION INSTRUCTIONS, NO EXCEPTIONS. 2) THE CLEANOUT DOOR MUST BE REMOVABLE WITHOUT TOOLS AND MUST BE CLEARLY AND PERMANENTLY LABELED. 3) PROVIDE CLEANOUT DOOR AT EVERY ELBOW AND TURN.



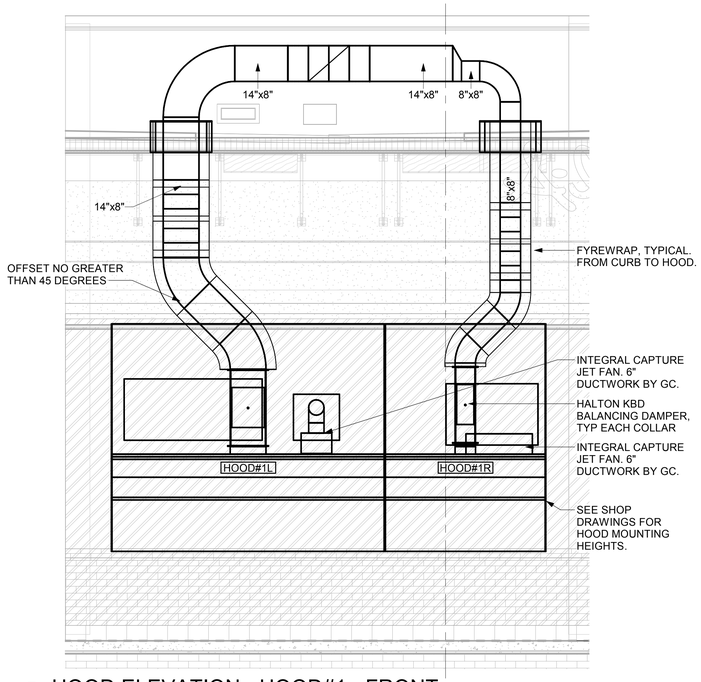
5 HOOD ELEVATION - HOOD#3
NOT TO SCALE



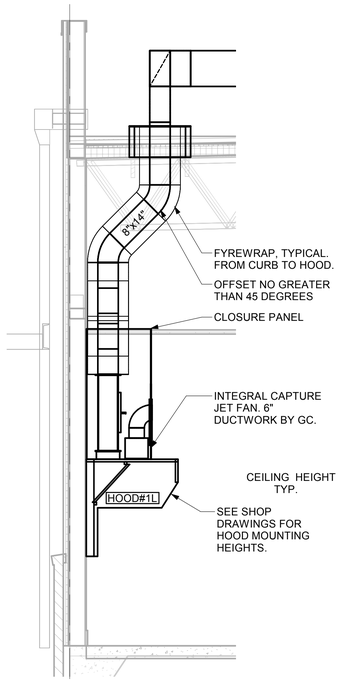
4 HOOD ELEVATION - HOOD#2 - FRONT
NOT TO SCALE



3 HOOD ELEVATION - HOOD#2 - SIDE
NOT TO SCALE



2 HOOD ELEVATION - HOOD#1 - FRONT
NOT TO SCALE



1 HOOD ELEVATION - HOOD#1 - SIDE
NOT TO SCALE

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SHEET
EXHAUST HOOD ELEVATIONS

SHEET NUMBER
M-201

Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR05484_Custer & Washington FSU_MEC.rvt
10/23/2025 10:34:00 AM
30-LS-05484-M-201-EXHAUST HOOD ELEVATIONS

COMcheck Software Version COMcheckWeb

Envelope Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: Chick-Fil-A - CusterandWashington
Location: Helena, Montana
Climate Zone: 6b
Project Type: New Construction
Vertical Glazing / Wall Area: 9%

Construction Site:
Washington St
Helena, Montana 59602

Owner/Agent:

Designer/Contractor:

Additional Efficiency Package(s)

Credits: 10.0 Required 15.5 Proposed
10% cooling efficiency improvement, 2.5 credit
Reduced lighting power, 13.0 credit

Building Area	Floor Area
1-Dining: Cafeteria/Fast Food : Nonresidential	5112

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor[a]
Roof: Insulation Entirely Above Deck, [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	5112	---	30.0	0.032	0.032
Floor: Unheated Slab-On-Grade, Vertical 2 ft., [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (c)	378	---	20.0	0.510	0.510
NORTH					
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	2844	19.0	5.0	0.048	0.051
Window: Metal Frame: Fixed, Perf. Specs.: Product ID FIXED WINDOW, SHGC 0.25, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	182	---	---	0.380	0.340
Door: Glass (over 50% glazing): Metal Frame, Non-Entrance Door, Perf. Specs.: Product ID DRIVE-THRU DOOR, SHGC 0.25, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	24	---	---	0.380	0.420
Door: Glass (over 50% glazing): Metal Frame, Non-Entrance Door, Perf. Specs.: Product ID DRIVE-THRU SLIDING DOOR, SHGC 0.25, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	53	---	---	0.380	0.420
EAST					
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	980	19.0	5.0	0.048	0.051
Door: Uninsulated Single-Layer Metal, Swinging, [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	23	---	---	0.700	0.370
Door: Uninsulated Single-Layer Metal, Swinging, [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	32	---	---	0.710	0.370
Window: Metal Frame: Fixed, Perf. Specs.: Product ID FIXED WINDOW, SHGC 0.25, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	11	---	---	0.380	0.340
SOUTH					

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor[a]
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	2844	19.0	5.0	0.048	0.051
Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID SERVING DOORS, SHGC 0.25, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	48	---	---	0.380	0.630
Window: Metal Frame: Fixed, Perf. Specs.: Product ID FIXED WINDOWS, SHGC 0.25, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	216	---	---	0.380	0.340
WEST					
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	905	19.0	5.0	0.048	0.051
Window: Metal Frame: Fixed, Perf. Specs.: Product ID FIXED WINDOWS, SHGC 0.25, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	112	---	---	0.380	0.340
Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID ENTRY VEST DOOR, SHGC 0.25, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	45	---	---	0.380	0.630

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Envelope PASSES: Design 1% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Carmen Lee - Professional Engineer — Name - Title
Signature
2024.02.23 — Date

COMcheck Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: Chick-Fil-A - CusterandWashington
Location: Helena, Montana
Climate Zone: 6b
Project Type: New Construction

Construction Site:
Washington St
Helena, Montana 59602

Owner/Agent:

Designer/Contractor:

Additional Efficiency Package(s)

Credits: 10.0 Required 15.5 Proposed
10% cooling efficiency improvement, 2.5 credit
Reduced lighting power, 13.0 credit

Mechanical Systems List

Quantity — System Type & Description

1 AC#1 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 389 kBtu/h
Proposed Efficiency = 81.00% Et, Required Efficiency: 81.00 % Et
Cooling: 1 each - Single Package DX Unit, Capacity = 286 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 10.30 EER, Required Efficiency = 9.80 EER
Proposed Part Load Efficiency = 14.50 IEER, Required Part Load Efficiency = 13.00 IEER
Fan System: AC#1 | KITCHEN -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
AC#1 Supply, Constant Volume, 8125 CFM, 7.5 motor nameplate hp, 4.17 fan energy index

1 AC#2 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 121 kBtu/h
Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
Cooling: 1 each - Single Package DX Unit, Capacity = 57 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 17.10 SEER2, Required Efficiency = 13.40 SEER2
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
Fan System: AC#2 | DRIVE-THRU -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
AC#2 Supply, Constant Volume, 1600 CFM, 1.0 motor nameplate hp, 2.76 fan energy index

1 AC#3 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 292 kBtu/h
Proposed Efficiency = 81.00% Et, Required Efficiency: 81.00 % Et
Cooling: 1 each - Single Package DX Unit, Capacity = 199 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 12.00 EER, Required Efficiency = 10.80 EER
Proposed Part Load Efficiency = 15.50 IEER, Required Part Load Efficiency = 14.00 IEER
Fan System: AC#3 | DINING / ENTRY VEST / PLAYAREA / RR VEST / SERVING / QUEUE / MEN RR / WOMEN RR -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
AC#3 Supply, Constant Volume, 6125 CFM, 5.0 motor nameplate hp, 3.98 fan energy index

1 AC#4 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 121 kBtu/h
Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
Cooling: 1 each - Single Package DX Unit, Capacity = 57 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 17.10 SEER2, Required Efficiency = 13.40 SEER2
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
Fan System: AC#4 | EMPLOYEE RESTROOM / RISER TECH CLOSET / TEAM MEMBER ROOM / OFFICE / SERVICE --

Quantity — System Type & Description

Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
AC#4 Supply, Constant Volume, 1750 CFM, 1.0 motor nameplate hp, 2.78 fan energy index

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Carmen Lee - Professional Engineer — Name - Title
Signature
2024.02.26 — Date

COMcheck Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2021 IECC

Requirements: 0.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR1][1]	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C103.2 [PR2][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical and service water heating systems and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks. Hot water system sized per manufacturer's sizing guide.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.4.1 [PR10][1]	The vertical fenestration area <= 30 percent of the gross above-grade wall area.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.4.1 [PR11][1]	The skylight area <= 3 percent of the gross roof area.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C406 [PR9][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C303.2 [FO4][2]	Slab edge insulation installed per manufacturer's instructions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C303.2.1 [FO6][2]	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C105 [FO3][2]	Installed slab-on-grade insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.2.4 [FO7][2]	Slab edge insulation depth/length. Slab insulation extending away from building is covered by pavement or >= 10 inches of soil.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C403.13.2 C403.13.3 [FO9][2]	Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature above 50F and outdoor temperature above 40F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Framing / Rough-In Inspection	Complies?	Comments/Assumptions
C303.1.3 [FR12][2]	Fenestration products rated in accordance with NFRC certified and as to performance labels or certificates provided.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.4.3 [FR10][2]	Vertical fenestration SHGC value.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.4.3, C402.4.3.4 [FR8][1]	Installed vertical fenestration U-factor and SHGC consistent with label specifications and as reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.4.5 [FR14][2]	U-factor of opaque swinging and nonswinging doors associated with the building thermal envelope meets requirements.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6][1]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

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CONSULTANT PROJECT # 230392
DATE 01/30/24
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SHEET
MECHANICAL COMPLIANCE I

SHEET NUMBER
M-401

Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_MEC.rvt
10/23/2025 10:34:00 AM
30-LS-05484-M-401-MECHANICAL COMPLIANCE I

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41]¹	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.7 [ME58]¹	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed. Reference section language for operational details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.8.1 [ME65]¹	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Mechanical Systems list for values.*
C403.8.3 [ME117]¹	Fans have a fan energy index (FEI) >= 1.00. Variable volume fans will have an FEI >= 0.95.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.8.4 [ME142]¹	Motors for fans that are not less than 1/12 hp and less than 1 hp are electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the means to adjust motor speed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.8.6 [ME143]¹	Each DX cooling system > 65 kBtu and chiller water/evaporative cooling system with fans > 1/4 hp are designed to vary the indoor fan airflow as a function of load and comply with detailed requirements of this section.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.9 [ME144]¹	Large diameter fans where installed shall be tested and labeled in accordance with AMCA 230.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.3 [ME59]¹	HVAC equipment efficiency verified.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Mechanical Systems list for values.*
C403.5.5 [ME113]¹	Fault detection and diagnostics installed with air-cooled unitary DX units or VRF units having economizers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.2 [ME59]¹	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.1 [ME59]¹	Demand control ventilation provided for spaces >500 ft2 and >15 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.7.2 [ME115]¹	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.6 [ME141]¹	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms: Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.7.6.1 and C403.7.6.2).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.4 [ME57]¹	Exhaust air energy recovery on systems meeting Table C403.7.4(1) and C403.7.4(2).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.5 [ME116]¹	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.5, C403.5.1, C403.5.2 [ME62]¹	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.5.3.3 [ME124]¹	Air economizers automatically reduce outdoor air intake to the design minimum outdoor air quantity when outdoor air intake will not reduce cooling energy usage. See Table C403.5.3.3 for applicable device types and climate zones.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.5.3.4 [ME125]¹	System capable of relieving excess outdoor air during air economizer operation to prevent over pressurizing the building. The relief air outlet located to avoid recirculation into the building.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.5.3.5 [ME126]¹	Return, exhaust/relief and outdoor air dampers used in economizers have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Reference section C403.7.7 for details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.1.4 [ME63]²	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.3.3 [ME35]¹	Hot gas bypass limited to: <=240 kBtu/h – 50% >240 kBtu/h – 25%	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C408.2.2.1 [ME53]¹	Air outlets and zone terminal devices have means for air balancing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.11.3.1, C403.11.3.2 [ME123]¹	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.11.3.1 and refrigeration compressor systems that comply with C403.11.3.2.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.7 [EL26]¹	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.8 [EL27]¹	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.9.1, C405.9.2 [EL28]¹	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.10 [EL29]¹	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.1.1 [EL30]¹	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.11, C405.11.1 [EL31]¹	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Insulation Inspection	Complies?	Comments/Assumptions
C303.1 [IN3]¹	Roof insulation installed per manufacturer's instructions and is labeled with R-value or insulation certificate providing R-value and other relevant data. Blown or poured loose-fill insulation is installed only where the roof slope is <=3 in 12.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.2.1 [IN20]¹	Roof assembly meets minimal thermal resistance installed between roof framing or in a continuous fashion on the roof assembly as stipulated in Table C402.1.3. Requirements for above deck insulation, minimum thickness, suspended ceilings, staggered joints and skylight curbs will be met.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C303.2 [IN7]¹	Above-grade wall insulation installed per manufacturer's instructions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C105 [IN6]¹	Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.2.3 [IN8]²	Installed floor insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.2.6 [IN18]³	Radiant panels and associated components, designed for heat transfer from the panel surfaces to the occupants or indoor space are insulated with a minimum of R-3.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C105 [IN2]¹	Installed roof insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. For some ceiling systems, verification may need to occur during Framing Inspection.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.5.1.1 [IN1]¹	All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather stripped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.3 [FI8]³	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C401.3 [FI58]¹	A thermal envelope certificate will be supplied and completed by an approved third party.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.5 [FI55]¹	Building envelope contains a continuous air barrier that has been tested and deemed to limit air leakage <= 0.40 cfm/ft2.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.5.11 [FI59]¹	Operable openings > 40 ft2 will be interlocked with heating and cooling systems to setback setpoint temperatures within 10 minutes of opening.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.5.8 [FI37]¹	Weatherseals installed on all loading dock cargo door openings and provide direct contact along the top and sides of vehicles parked in the doorway.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.3.1 [FI27]¹	HVAC systems and equipment capacity does not exceed calculated loads.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.1 [FI47]¹	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.1.2 [FI38]¹	Thermostatic controls have a 5 °F deadband.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.1.3 [FI20]¹	Temperature controls have setpoint overlap restrictions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.2 [FI39]¹	Each zone equipped with setback controls using automatic time clock or programmable control system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.2.1, C403.4.2.2 [FI40]¹	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.2.3 [FI41]¹	Systems include optimum start controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C406.2.4 [FI66]¹	10% cooling efficiency improvement - all HVAC and Plant cooling equipment is 10% more efficient than required by 2021 IECC.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C406.3 [FI67]¹	Reduced lighting power - this credit specifies that the connected lighting power is >= 10% more efficient than 2021 IECC requirements.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.1.1 [FI57]¹	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.1 [FI28]¹	Commissioning plan developed by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.3.1 [FI31]¹	HVAC equipment, systems and system-to-system relationships have been tested to ensure proper operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.3.2 [FI10]¹	HVAC and service water heating control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.3.3 [FI32]¹	Economizers have been tested to ensure proper operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.4 [FI29]¹	Preliminary commissioning report completed and certified by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5 [FI7]¹	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5.1 [FI43]¹	An air and/or hydronic system balancing report is provided for HVAC systems.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5.2 [FI30]¹	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

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FSR#05484

BUILDING TYPE / SIZE: P14 LS XPS
RELEASE: 23.09
PRINTED FOR
Plan Check-Rev 4

REVISION SCHEDULE

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SHEET
MECHANICAL COMPLIANCE II

SHEET NUMBER
M-402

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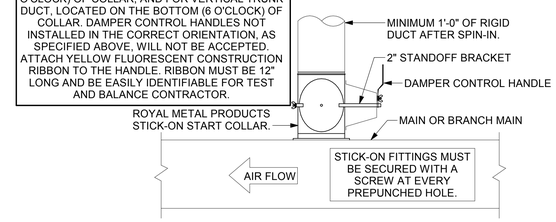
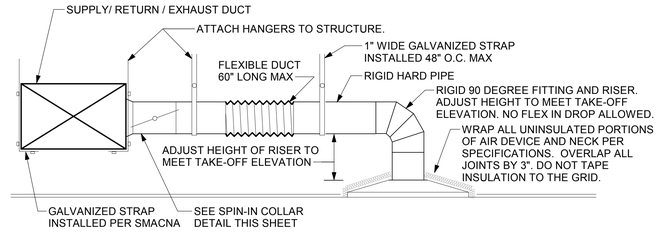
10/23/2025 10:34:00 AM
30-LS-05484-M-402-MECHANICAL COMPLIANCE II

CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE ROYAL METAL PRODUCTS START COLLARS FOR BOTH WITH AND WITHOUT A MANUAL BALANCING DAMPER. THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE ROYAL METAL PRODUCTS START COLLARS DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. ROYAL METAL PRODUCTS START COLLARS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

DAMPER CONTROL HANDLE MUST BE EXPOSED, AND DAMPER SHAFT MUST ALWAYS BE PARALLEL TO AIRFLOW IN DUCT MAIN. AS AN EXAMPLE, FOR HORIZONTAL TRUNK DUCT, HANDLE MUST BE LOCATED ON THE LEFT OR RIGHT (9 OR 3 O'CLOCK) OF COLLAR, AND FOR VERTICAL TRUNK DUCT, LOCATED ON THE BOTTOM (6 O'CLOCK) OF COLLAR. DAMPER CONTROL HANDLES NOT INSTALLED IN THE CORRECT ORIENTATION, AS SPECIFIED ABOVE, WILL NOT BE ACCEPTED. ATTACH YELLOW FLUORESCENT CONSTRUCTION RIBBON TO THE HANDLE. RIBBON MUST BE 12" LONG AND BE EASILY IDENTIFIABLE FOR TEST AND BALANCE CONTRACTOR.

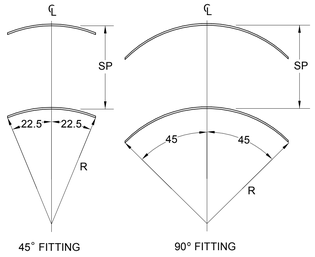


2 START COLLAR - LARGE
NOT TO SCALE



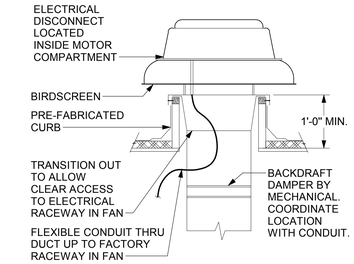
1 SAG/RAG/GRILLE TAKE-OFF - LARGE
NOT TO SCALE

TURNING VANE SCHEDULE		
R	SP	GA
2"	1.5"	24
1. NO TRAILING EDGE. 2. SINGLE THICKNESS CONSTRUCTION.		

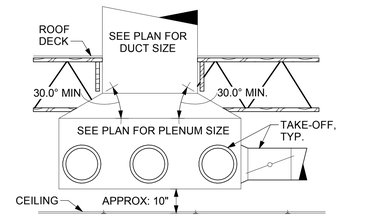


4 TURNING VANES
NOT TO SCALE

SECURE FAN TO CURB WITH SHEET METAL SCREWS (#10 x 1-1/2") 6" O.C. ALL AROUND



3 RESTROOM EXHAUST FAN
NOT TO SCALE



5 RETURN DROP GEOMETRY
NOT TO SCALE

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SHEET
DETAILS

SHEET NUMBER
M-501

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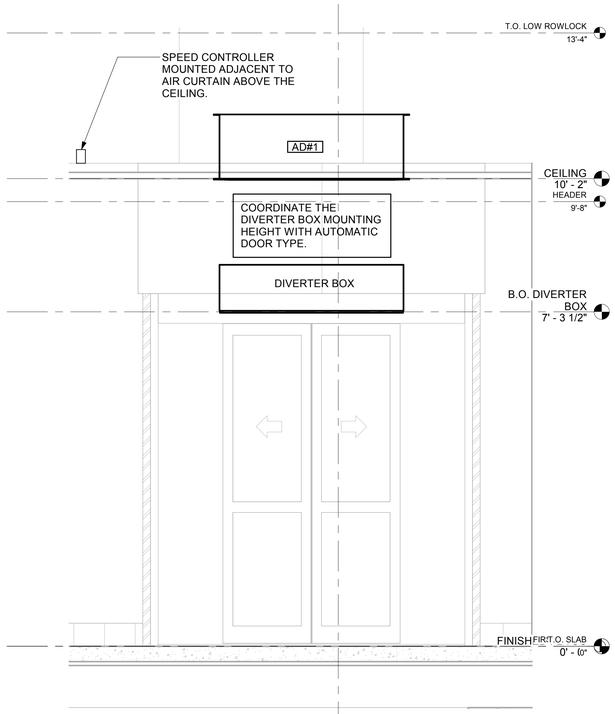
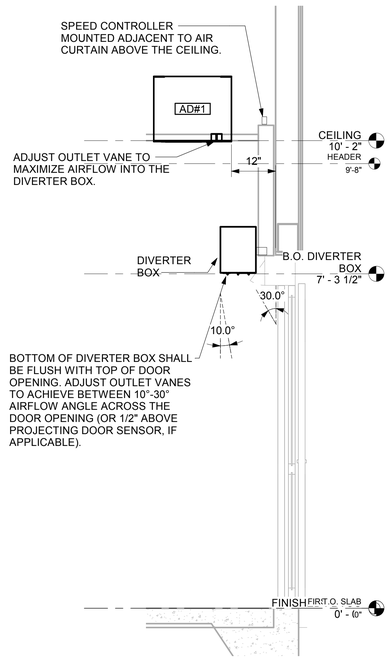
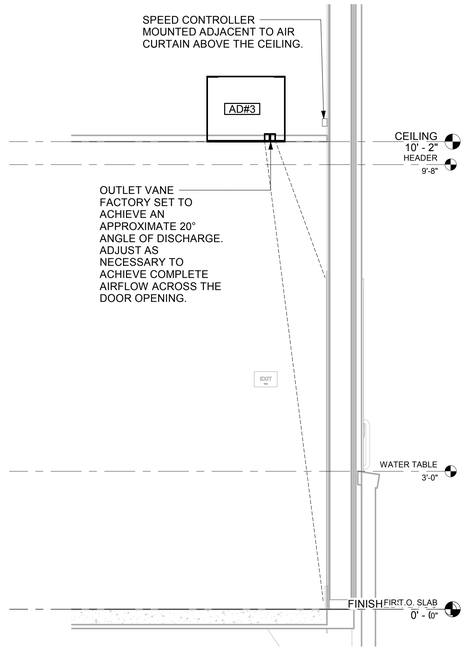


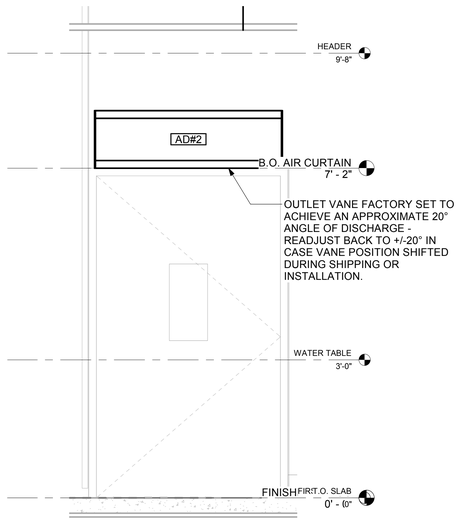
1 AD#1 FRONT VIEW
3/4" = 1'-0"



2 AD#1 SIDE VIEW
3/4" = 1'-0"



3 AD#3 SIDE VIEW
3/4" = 1'-0"



4 AD#2 FRONT VIEW
3/4" = 1'-0"

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SHEET
DETAILS

SHEET NUMBER
M-502

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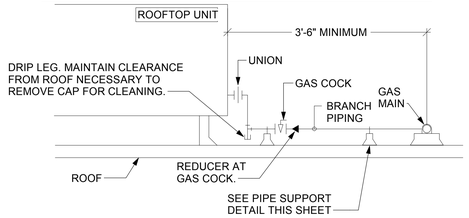
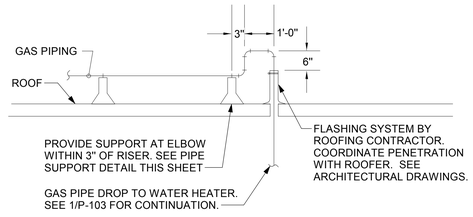
10/23/2025 10:34:01 AM
30-LS-05484-M-502-DETAILS

NOTES:
1. INSTALL GAS PIPING SUCH THAT HVAC EQUIPMENT ACCESS PANELS AND/OR DOORS ARE IN NO WAY OBSTRUCTED BY PIPING, VALVES, OR SUPPORTS.
2. TO AVOID CONFLICT WITH AC UNIT ACCESS DOORS, INSTALL GAS PIPING NO CLOSER THAN 3'-6" FROM AC UNIT. (EXCEPT FOR BRANCH LINE CONNECTED TO AC UNIT.)
3. ROUTE BRANCH TAKE-OFF DIRECTLY FROM MAIN TO ROOFTOP UNIT AS SHOWN ON PLAN AND DETAILS WITHOUT LATERAL OFFSETS WHICH MAY OBSTRUCT UNIT ACCESS DOORS.



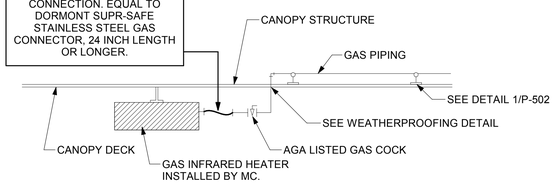
3 GAS PIPING AT RTU
NOT TO SCALE

OFFSET PIPING A MINIMUM OF 6" ABOVE TOP EDGE OF FLASHING.

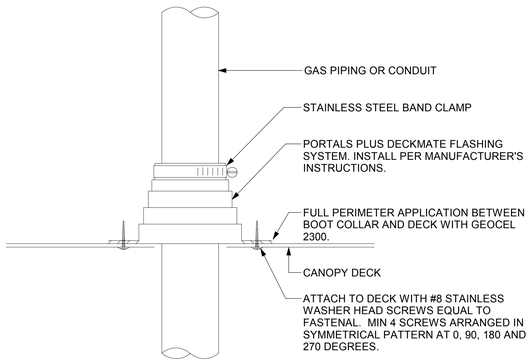


2 GAS PIPE DROP TO WATER HEATER
NOT TO SCALE

AGA LISTED FLEXIBLE CSST CONNECTION. EQUAL TO DORMONT SUPR-SAFE STAINLESS STEEL GAS CONNECTOR, 24 INCH LENGTH OR LONGER.



1 GAS CONNECTION AT APPLIANCE
NOT TO SCALE

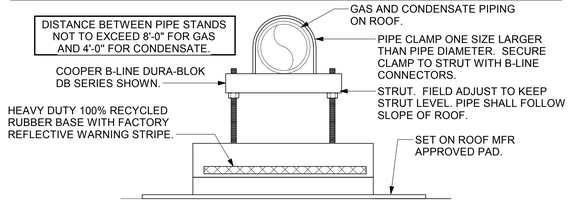


6 WEATHERPROOFING AT CANOPY PENETRATION
NOT TO SCALE

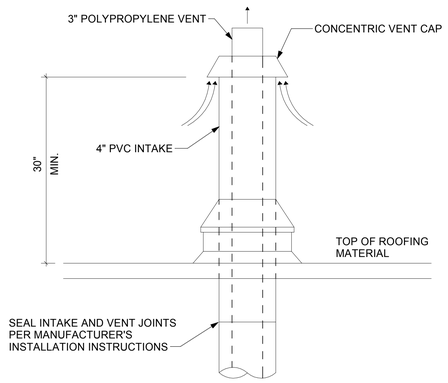
5 CONDENSATE DRAIN PIPING
NOT TO SCALE

NOTES:
1. NON ADJUSTABLE MODEL DB610 PIPE STAND TO BE USED FOR NON-ELEVATED PIPING INSTALLED FLAT ON ROOF DECK.
2. PROVIDE MODEL DBE 10-8 OR DBE 10-12 OR DBE 10-16 AS NEEDED FOR ELEVATING CONDENSATE PIPING TO MAINTAIN PROPER SLOPE AND FOR GAS PIPING CROSSING OVER CONDENSATE PIPING.
3. ENSURE GAS AND CONDENSATE PIPING DO NOT OBSTRUCT ROOFTOP EQUIPMENT ACCESS OPENINGS. RE-PIPING OF SYSTEMS DUE TO CONFLICTS WITH EQUIPMENT ACCESS OPENINGS SHALL BE DONE AT PLUMBING CONTRACTOR'S EXPENSE.

DISTANCE BETWEEN PIPE STANDS NOT TO EXCEED 8'-0" FOR GAS AND 4'-0" FOR CONDENSATE.



4 PIPING SUPPORT ON ROOF
NOT TO SCALE



7 WATER HEATER VENT ROOF PENETRATION
NOT TO SCALE

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FSR#05484

BUILDING TYPE / SIZE: P14 LS XPS
RELEASE: 23.09
PRINTED FOR
Plan Check-Rev 4

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

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CONSULTANT PROJECT # 230392
DATE 01/30/24
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SHEET
DETAILS

SHEET NUMBER
M-503

Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_MEC.rvt
10/23/2025 10:34:02 AM
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ROOFTOP UNIT SCHEDULE - LENNOX

MARK	TOTAL COOLING MBH	SENSIBLE COOLING MBH	HEATING INPUT MBH	HEATING OUTPUT MBH	SUPPLY CFM	OA CFM	HP	ESP (in-wg)	EER	SEER	IEER	VOLTAGE (V)	PHASE	MCA (A)	MOCP (A)	MODEL	MANUFACTURER	REMARKS
AC#1	285.6	193.90	480	389	8,125	1,750	7.5	0.8	10.3	0	14.5	208	3	137	150	LGT300S4M	LENNOX	1,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17
AC#2	56.7	49.30	150	121	1,600	400	1	0.8	12.7	17.1	0	208	3	28	40	LGT060H4E	LENNOX	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17
AC#3	199.4	175.40	360	292	6,325	1,900	5	0.8	12	0	15.5	208	3	92	100	LGT210H4M	LENNOX	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17
AC#4	56.7	49.30	150	121	1,750	500	1	0.8	12.7	17.1	0	208	3	28	40	LGT060H4E	LENNOX	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16

NOTES
- MECHANICAL CONTRACTOR TO VERIFY LENNOX SUBMITTAL WITH CONSTRUCTION DOCUMENTS. NATIONAL ACCOUNT - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004.

REMARKS
1. DIFFERENTIAL ENTHALPY ECONOMIZER WITH POWER EXHAUST.
2. DIFFERENTIAL ENTHALPY ECONOMIZER WITH BAROMETRIC EXHAUST.
3. 14" HIGH ROOF CURB PLUS RESTRAINT CLIP KIT.
4. SEE DETAIL 2/M-701 FOR SETTING OF CONTROL PARAMETERS BY MC.
5. FACTORY INSTALLED 115V GFI SERVICE OUTLET. SEPERATE 115V CIRCUIT PROVIDED BY ELECTRICAL CONTRACTOR.
6. FACTORY INSTALLED RETURN AIR SMOKE DETECTOR.
7. FACTORY INSTALLED NON-FUSED DISCONNECT.
8. 2" MERV-13 THROW AWAY FILTERS.
9. HINGED PANELS FOR ACCESS TO FILTER(S), FAN BLOWER & MOTOR, COMPRESSOR(S) ACCESS AND CONTROLS.
10. FACTORY COIL HAIL GUARD, FIELD INSTALLED.
11. FRESH AIR TEMPERING KIT.
12. HOT GAS DEHUMIDIFICATION OPTION WITH WALL MOUNTED HUMIDITY SENSOR.
13. FACTORY INSTALLED BELT TENSIONER.
14. FACTORY CONFIGURED PHASE LOSS PROTECTION.
15. FACTORY INSTALLED CONDENSATE PAN DRAIN OVERFLOW SWITCH.
16. FACTORY STAINLESS STEEL HEAT EXHANGER.
17. 100K SCCR RATING.

HOOD SCHEDULE

MARK	EXHAUST CFM	SP @ TAB PORT (in-wg)	CAPTURE JET CFM & S.P.	TYPE	COLLAR SIZE	WIDTH	DEPTH	HEIGHT	MANUFACTURER	MODEL	REMARKS
HOOD#1L	1,204	0.13	80 @ 0.30"	BACKSHELF	14"X8"	107"	36"	38"	HALTON	KVL-2 IC	1, 2, 3, 4, 5, 7, 8, 9, 12, 16, 21, 23
HOOD#1R	709	0.13	47 @ 0.30"	BACKSHELF	8"X8"	63"	36"	38"	HALTON	KVL-2 IC	1, 2, 3, 5, 7, 8, 9, 12, 20, 21, 22
HOOD#2	701	0.3	30 @ 0.29"	BACKSHELF	8"X8"	42"	34"	38"	HALTON	KVL-C-IC	1, 2, 3, 6, 7, 8, 9, 13, 15, 16, 18, 21
HOOD#3	701	0.3	30 @ 0.29"	BACKSHELF	8"X8"	42"	34"	38"	HALTON	KVL-C-IC	1, 2, 3, 4, 6, 7, 8, 9, 13, 17, 21

NOTES
- DIMENSIONS OF HOODS INCLUDE BACK AND SIDE SPACERS (HEIGHT DOES NOT INCLUDE CLOSURE PANELS). NATIONAL ACCOUNTS - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004.

REMARKS
1. STAINLESS STEEL CONSTRUCTION.
2. PROVIDE FULL HEIGHT SS CLOSURE PANEL WITH ACCESS PANEL IN FRONT LARGE ENOUGH TO REMOVE CAPTURE JET FAN, FIRE SUPPRESSION COMPONENTS, AND/OR TO ACCESS KBD EQUALIZER JACK SCREW.
3. PRE-PIPED FIRE SUPPRESSION SYSTEM.
4. FIRE SUPPRESSION CABINET AND COMPONENTS ABOVE HOOD ON LEFT SIDE.
5. 3" ZERO CLEARANCE TO COMBUSTIBLE BACK SPACER.
6. 3" ZERO CLEARANCE TO COMBUSTIBLE CUSTOM BACK SPACER TO ACCOMMODATE PIN AND SLEEVE ELECTRICAL BOX.
7. EQUIPMENT I.D. LABELS LOCATED ON FRONT LEADING EDGE OF HOOD.
8. FACTORY WALL MOUNTING ANGLE AT TOP OF HOOD.
9. INTEGRAL CAPTURE JET FAN.
10. NOT USED.
11. NOT USED.
12. NOT USED.
13. PIN AND SLEEVE ELECTRICAL BOX (DOUBLE CONNECTION). SEE ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
14. NOT USED.
15. 3" ZERO CLEARANCE TO COMBUSTIBLE RIGHT SIDE SPACER.
16. NOTCHED LEFT END SIDE PANEL.
17. NOTCHED RIGHT END SIDE PANEL.
18. 3"X3" HORIZONTAL AND VERTICAL TRIM ANGLE FOR RIGHT SIDE OF HOOD TO FINISH OFF GAP AT WALL.
19. FULL LEFT END SIDE PANEL.
20. FULL RIGHT END SIDE PANEL.
21. HALTON KBD EQUALIZER.
22. CONTINUOUS CAPTURE INTERNAL LEFT END CUTOUT.
23. CONTINUOUS CAPTURE INTERNAL RIGHT END CUTOUT.

HEATER SCHEDULE

MARK	HEATIING INPUT ELECTRIC (kW)	HEATIING INPUT GAS (MBH)	FRAME LENGTH	FRAME WIDTH	FRAME DEPTH	MOUNTING TYPE	VOLTAGE (V)	PHASE	FLA (A)	MOCP (A)	MODEL	MANUFACTURER	REMARKS
EIH#1	6.00	0.0	56"	8.5"	3.5"	WALL BRACKET	208	1	29	40	BH0420035	BROMIC (1)	1, 2, 3, 4
IRH	0.00	50.0	48"	13.4"	13.4"	BRACKET	120	1	0	20	WB-50	SPACE-RAY	1, 5, 6, 7

NOTES
- NATIONAL ACCOUNT NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004.
- CONFIRM HEATER QUANTITY WITH CANOPY SHOP DRAWINGS.

REMARKS
1. STAINLESS STEEL LENS WITH BLACK EMISSIVE COATING.
2. PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND.
3. PROVIDE BLACK HEATER WITH HIGH TEMPERATURE COATING, AND MANUFACTURER MOUNTING BRACKETS.
4. PROVIDE BROMIC WALL MOUNTED ELECTRIC HEATER MODEL: BH0420033 FOR 220-240V SITES.
5. STEEL BURNER WITH CERAMIC BURNER TILES.
6. PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. MOUNT TO CANOPY DECK, FACING FORWARD, 12" LATERALLY FROM THE LONG SIDE OF THE HEATER.
7. STAINLESS STEEL HEAT SHIELDS PROVIDED BY TOM BARROW COMPANY.

FAN SCHEDULE

MARK	FAN CFM	ESP (in-wg)	MOTOR RPM	HP	AREA SERVED	VOLTAGE (V)	PHASE	FLA (A)	MOCP (A)	MODEL	MANUFACTURER	REMARKS
CF#1	1,900	0.01	1,625	0.1	OUTDOOR CANOPY	120	1	1.1	20	U-18-TE-HD	TPI	20,21,24
EF#1	1,913	0.75	1,331	0.75	HOOD#1	120	1	0	25	KEFB-14-CFA	HALTON	1,2,3,4,5,6,7,8,9,10,11
EF#2	1,402	0.95	1,199	0.75	HOOD#2 & HOOD#3	115	1	0	25	KEFB-14-CFA	HALTON	1,2,3,4,5,6,7,8,9,10,11
EF#3	300	0.375	1,550	0.125	RESTROOMS	120	1	2.2	20	XRED-095-VG	ACCUREX	1,3,11,12,13,14,15,16
TF#1	450	0.3	1,144	0.127	TECH CLOSET	120	1	2.5	0	SP-A510-VG	GREENHECK	1,17,18,19

NOTES
- GREASE EXHAUST FAN RPM BASED ON 80 DEGREE F AIR AT 1000 FEET ABOVE SEA LEVEL.

REMARKS
1. FANS SUPPLIED BY HALTON.
2. U.L. 705 LISTED AND LABELED FOR RESTUARANT APPLICATIONS.
3. FACTORY INSTALLED PREWIRED DISCONNECT SWITCH.
4. 19" HIGH ROOF CURB.
5. INSTALL ROOFTOP SOLUTIONS G2 DRIP GUARD. MECHANICAL CONTRACTOR TO CONTACT ROOFTOP SOLUTIONS AT 800-913-7034.
6. FACTORY WEATHER HOUSING W/ HINGED ACCESS DOOR.
7. FACTORY DRAIN CONNECTION.
8. FACTORY BOLTED ACCESS DOOR ON SCROLL.
9. FACTORY INSTALLED BELT DRIVE WITH ADJUSTABLE MOTOR SHEAVE, SPARE BELT, AND BELT TENSIONER.
10. FACTORY INSTALLED OUTLET WITH QUICK RELEASE, HINGED ACCESS, AND GRAVITY BACKDRAFT DAMPER.
11. INTEGRAL THERMAL OVERLOAD.
12. BIRDSCREEN.
13. BACKDRAFT DAMPER IN DUCT BY MECHANICAL CONTRACTOR AS SHOWN ON 5/M-501.
14. STARTER BY ELECTRICAL CONTRACTOR. INTERLOCK WITH LIGHTS BY ELECTRICAL CONTRACTOR.
15. 12" HIGH CURB.
16. FACTORY INSTALLED AND WIRED SPEED CONTROLLER.
17. PROVIDE NEMA 1 PREWIRED DISCONNECT.
18. INTEGRAL POTENTIOMETER ON FAN MOTOR. SET TO FULL SPEED.
19. PROVIDE THERMOSTAT / TEMPERATURE CONTROLLER, SET TO 76°F.
20. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
21. PROVIDE WITH ON/OFF SWITCH.
22. FAN SHALL BE CONTROLLED WITH THE ROOM LIGHTING. ALL WIRING IS BY THE ELECTRICAL CONTRACTOR.
23. DIRECT DRIVE CEILING FAN. PROVIDE DISCONNECT SWITCH. INTEGRAL BACKDRAFT DAMPER, AND MANUFACTURER'S FAN SPEED CONTROLLER.
24. FAN SUPPLIED BY TOM BARROW.

AIR DEVICE SCHEDULE

MARK	DESCRIPTION	LOCATION	NECK SIZE	FACE SIZE	FRAME TYPE	REMARKS
A	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	DINING / KITCHEN	VARIES (2)	24"x24"	LAY-IN	1,7,9
B	VARITHERM PLAQUE DIFFUSER	OFFICE	12"	24"x24"	LAY-IN	1,7,8,9
C	PRICE MODEL SMCD STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	ENTRY	14"x14"	16"x16"	BEVELLED	1,3,5,6,9
D	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	DINING	VARIES	16"x16"	SURFACE	1,3,5,6,9
E	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	DINING	8"	12"x12"	SURFACE	1,3,5,6,9
F	PRICE MODEL 80 EGGCRATE RETURN AIR GRILLE WITH REMOVABLE WHITE CORE, FACTORY FLAT BLACK BACKPAN AND ROUND NECK.	DINING / OFFICE / KITCHEN	VARIES	24"x24"	LAY-IN	1,7,9
HD	PRICE MODEL PPD - PRODIGY PLAQUE MOTORIZED VAV DRONE DIFFUSER WITH STYLE 17 - 9/16 REGULAR OR BOLT SLOT T-BAR BORDER.	PLAY ROOM	10"	24"x24"	LAY-IN	1,7,8,9
HM	PRICE MODEL PPD - PRODIGY PLAQUE MOTORIZED VAV MASTER DIFFUSER WITH STYLE 17 - 9/16 REGULAR OR BOLT SLOT T-BAR BORDER.	PLAY ROOM	10"	24"x24"	LAY-IN	1,7,8,9
J	PRICE MODEL SMCD STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	RESTROOMS	14"x14"	16"x16"	BEVELLED	1,2,3,5,6,9
K	PRICE MODEL APDDR ALUMINUM PERFORATED FACE RETURN AIR GRILLE.	RESTROOMS / ENTRY	14"x14"	16"x16"	SURFACE	1,4,5,6,9
L	PRICE MODEL 21 ALUMINUM SIDEWALL RETURN GRILLE, FRONT BLADE PARALLEL TO LONG SIDE.	PLAY ROOM	28"x14"	30"x16"	SURFACE	1,9

NOTES
- NATIONAL ACCOUNT - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004

REMARKS
1. STANDARD OFF WHITE FINISH.
2. PROVIDE MODEL VCS3 NECK DAMPER.
3. SEE DRAWING M-101 FOR THROW.
4. PROVIDE MODEL VCR7 NECK DAMPER ON GRILLES IN RESTROOMS SERVING EXHAUST FAN.
5. PROVIDE BACKPAN. MC TO SEAL JOINTS WITH MASTIC AND INSULATE EXTERNALLY.
6. FIELD INSULATE BACKPAN AS SHOWN ON DETAIL 3/M-501.
7. FACTORY INSULATED R-6 BACKPAN.
8. PROVIDE RELIEF COLLAR ACCESSORY FOR VAV DIFFUSER. (2)
9. PROVIDE ELECTRONIC BALANCING DAMPER IN HARD LID CEILING WHERE TYPICAL VOLUME DAMPER WOULD BE INACCESSIBLE ABOVE CEILING.

Climate Zone (CZ)	Air Curtain
8	Heated
7	Heated
6B	Heated
6A	Heated
5C	Unheated*
5B	Unheated*
5A	Heated
4C	Unheated
4B	Unheated*
4A	Unheated*
3C	Unheated
3B	Unheated
3A	Unheated
2B	Unheated
2A	Unheated
1B	Unheated
1A	Unheated

*Heat may be provided at the discretion of the engineer

AIR DOOR SCHEDULE

MARK	CFM	VELOCITY (FPM)	HEATING (KW)	MOTOR HP	MCA (A)	MOCP (A)	VOLTAGE (V)	PHASE	AREA SERVED	MODEL	MANUFACTURER	REMARKS
AD#1	1,543	2,338	10	0.75	31.4	40	208	3	DRIVE THRU	CHA-1-48E	POWERED AIRE	1,2,3,5
AD#2	3,867	4,218	0	0.75	3.6	20	208	1	REAR DOOR	RBT-1-48	POWERED AIRE	4
AD#3	1,197	2,443	10	0.75	31.4	40	208	3	SERVING	ETA-1-36E	POWERED AIRE	1,2,3

NOTES
- NATIONAL ACCOUNT - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004 (2)

REMARKS
1. FACTORY PROVIDED, WIRED, AND UNIT MOUNTED SPEED CONTROLLER ABOVE CEILING.
2. FACTORY WIRED DISCONNECT.
3. FACTORY PROVIDED, FIELD INSTALLED BY MC, REMOTE WALL SWITCHES FOR HEATING ON/OFF AND FAN ON/AUTO SWITCH. SEE DETAILS ON M502.
4. FACTORY PROVIDED MAGNETIC DOOR CONTACT WITH FACTORY INSTALLED LOW VOLTAGE CONTROLS LOCATED IN AIR DOOR CABINET.
5. PROVIDE WITH A DIVERTER BOX. PROVIDE WITH MOUNTING BRACKETS PER MANUFACTURER'S RECOMMENDATIONS.

BYPASS EQUIPMENT SCHEDULE

MARK	MANUFACTURER	MODEL	SIZE	CFM	REMARKS
BD#1	PRICE	PCV	10"	800	1, 2, 3

NOTES
- NATIONAL ACCOUNT - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004

REMARKS
1. PROVIDE 120 VAC CIRCUIT, DISCONNECT SWITCH AND 24VAC, 50VA TRANSFORMER FOR UNIT POWER BY ELECTRICAL CONTRACTOR.
2. USE CONTROL SEQUENCE #1550.
3. PROVIDE STATIC PRESSURE PICKUP PROBE. INSTALL STATIC PRESSURE SENSOR APPROXIMATELY 2/3 OF THE WAY DOWN THE MAIN DUCT.

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FSR#05484

BUILDING TYPE / SIZE: P14 LS XPS
RELEASE: 23.09
PRINTED FOR
Plan Check-Rev 4

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	07/11/2024	Plan Check - Rev 1
2	08/22/2025	Plan Check - Rev 2

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CONSULTANT PROJECT # 230392
DATE 01/30/24
DRAWN BY CP

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SHEET
HVAC EQUIPMENT SCHEDULES - LENNOX

SHEET NUMBER
M-601

Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR05484_Custer & Washington FSU_MEC.rvt
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30-LS-05484-M-601-HVAC EQUIPMENT SCHEDULES - LENNOX

PROVIDE A PROFESSIONALLY LAMINATED COPY OF THESE DETAILS TO BE INSTALLED INSIDE THE ROOFTOP UNIT CONTROL CABINENT. USE A SETON CHART FRAME STYLE #68624, TELEPHONE NUMBER 800-243-6624, FOR MOUNTING THE DETAIL. ATTACH THE FRAME TO THE INTERIOR OF THE UNIT IN PLAIN AND EASY VIEW OF THE CONTROLS SECTION. CONTACT ENGINEER OF RECORD FOR A REPRODUCIBLE COPY OF THE DETAIL.

SUPPLY SIDE DETECTORS:
IF SUPPLY SIDE SMOKE DETECTORS ARE SHOWN ON DWG M-101, AND CALLED FOR ON RTU SCHEDULE, THE CONTRACTOR IS TO RELOCATE FACTORY INSTALLED SUPPLY SMOKE DETECTOR FROM BLOWER SECTION TO DUCTWORK. SEE NOTES ON DWG M-101.

PRODIGY CONTROL BOARD

FIELD INSTALLED WIRING:
WITHIN THE ROOFTOP UNIT, WIRING SHALL BE ROUTED BY WAY OF FACTORY WIRE WAYS ONLY. WIRING ROUTED OVER THE BLOWER HOUSING OR BY WAY OF OTHER ROUTES DETRIMENTAL TO THE WIRING LIFE WILL NOT BE ACCEPTED.

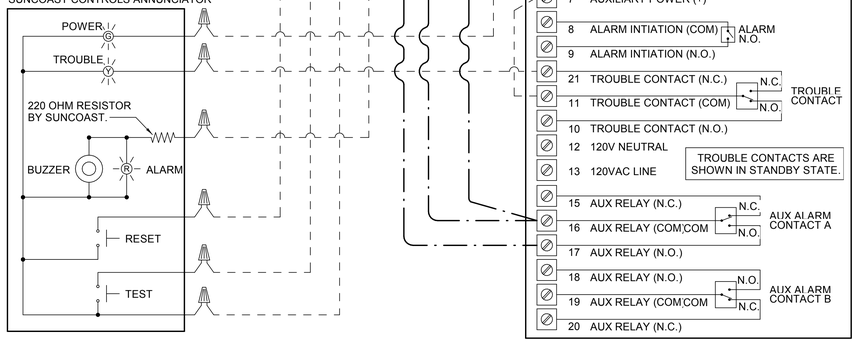
LEGEND
- 18 AWG MIN WIRING BY MECH CONTRACTOR
- FACTORY ANNUNCIATOR DETECTOR WIRING
- FACTORY LENNOX WIRING

LABELING:
PROVIDE ENGRAVED LABEL WITH 1" HIGH WHITE LETTERS ON BLACK BACKGROUND IDENTIFYING UNIT SERVED.

LENNOX FACTORY WIRING

LENNOX FACTORY INSTALLED DUCT DETECTOR SYSTEM SENSOR M/N LD4120

SUNCOAST CONTROLS ANNUNCIATOR



1 SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM - LENNOX
NOT TO SCALE

NOTES:
1. MECHANICAL CONTRACTOR SHALL MAKE PLASTIC LAMINATE OF THIS DETAIL AND INSTALL PERMANENTLY ON INSIDE DOOR OF ROOFTOP UNIT CONTROL COMPARTMENT.
2. SEE DETAILS THIS SHEET FOR SMOKE DETECTOR AND ANNUNICIATOR WIRING.
3. SET ALL THERMOSTATS FOR AUTO CHANGEOVER.
4. PROVIDE PLASTIC ENGRAVED LABEL AT ALL NEW SENSORS WITH 1/4" HIGH WHITE LETTERING ON BLACK BACKGROUND, I.E. "AC#2 HUMIDITY SENSOR" OR "AC#2 TEMP SENSOR". PLACE LABELS ON WALL ADJACENT TO DEVICE, DO NOT APPLY DIRECTLY TO DEVICE.

KEYED NOTES:
1. LOW VOLTAGE WIRING TO RTU TO BE ROUTED TO UNIT THRU FACTORY WIREWAY.
2. HUMIDITROL UNITS ONLY: WIRING TO HUMIDITY SENSOR TO BE MADE WITH TWO SEPARATE RUNS OF SHIELDED TWISTED PAIR. TERMINATE SHIELD WIRES AT TB-1, LEAVE OPEN AT SENSOR.
3. NETWORK TSTAT REMOTE TEMP SENSOR PROVIDED BY SUNCOAST AND INSTALLED BY MC. SENSOR IS INTENDED TO BE SURFACE MOUNTED AND DOES NOT REQUIRE A SINGLE GANG BOX OF CONDUIT. FIELD CALIBRATE EACH SENSOR.

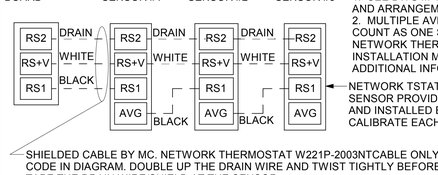
LEGEND

S.E.C.	SUNCOAST ENVIRONMENTAL CONTROLS (SUPPLIER OF TEMP/FAN CONTROL PANEL) LOCATED IN KITCHEN	
1	KEY NOTE REFERENCE	
MC	MECHANICAL CONTRACTOR	
AC	SUNCOAST RELAY FACTORY INSTALLED AND WIRED IN CFA-500 PANEL, ENERGIZED BY PUTTING STORE SWITCH IN "STORE OCCUPIED" POSITION.	
AN	SUNCOAST RELAY FACTORY INSTALLED AND WIRED IN CFA-500 PANEL, DENERGIZED WHEN ANSUL FIRE SUPPRESSION SYSTEM IS ACTIVATED, AS NOTED.	
- - -	ALL LOW VOLTAGE CABLING BY MC. ONLY USE CABLE SPECIFIED. NO SUBSTITUTIONS.	
— · —	LOW VOLTAGE WIRING BY S.E.C.	
———	LINE VOLTAGE BY ELECTRICIAN OR S.E.C.	

SHIELDED CABLE BY MC. NETWORK THERMOSTAT W221P-2003NT CABLE ONLY. 22AWG, 1-PAIR, TWISTED, SHIELDED, WITH DRAIN. PLENUM RATED. NO SUBSTITUTIONS. AFTER DRAIN WIRE TERMINATION, TAPE/INSULATE ALL EXPOSED DRAIN/SHIELD AT SENSOR. DO NOT CONNECT SHIELD/DRAIN WIRE. FULL SPEC AND ORDERING AT: NETWORKTHERMOSTAT.COM/CFA

AVERAGING SENSORS
(WHERE SHOWN ON PLANS)

S.E.C. TERMINAL BOARD | INDOOR TEMP SENSOR #1 | INDOOR TEMP SENSOR #2 | INDOOR TEMP SENSOR #3



NOTES:
1. SEE DWG M-101 FOR LOCATION AND ARRANGEMENT OF SENSORS.
2. MULTIPLE AVERAGING SENSORS COUNT AS ONE SENSOR. SEE NETWORK THERMOSTAT NT-URS INSTALLATION MANUAL FOR ADDITIONAL INFORMATION.

NETWORK TSTAT REMOTE TEMP SENSOR PROVIDED BY SUNCOAST AND INSTALLED BY MC. FIELD CALIBRATE EACH SENSOR, TYP.

SHIELDED CABLE BY MC. NETWORK THERMOSTAT W221P-2003NTCABLE ONLY. WIRE WITH COLOR CODE IN DIAGRAM. DOUBLE UP THE DRAIN WIRE AND TWIST TIGHTLY BEFORE TERMINATION. TAPE THE DRAIN WIRE/SHIELD AT THE SENSOR.

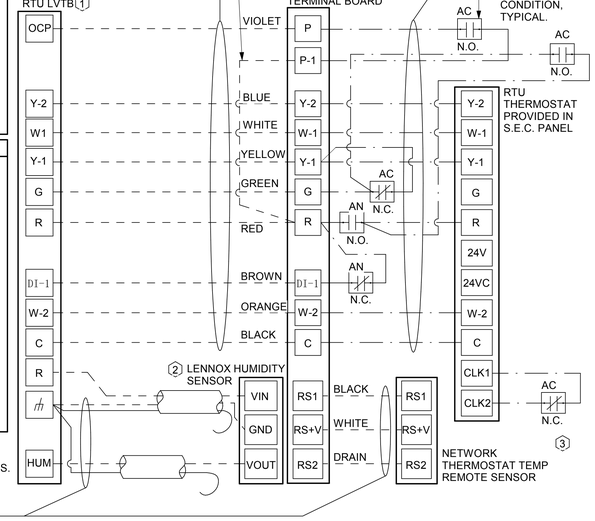
THERMOSTAT CABLE BY MC. CONNECT-AIR W1812C-2148 CABLE ONLY. 18 AWG. 12 CONDUCTORS, STRANDED, UNSHIELDED, PLENUM RATED. FULL SPEC AND ORDERING AT: NETWORKTHERMOSTAT.COM/CFA

FIELD INSTALLED JUMPER WIRE. 18 AWG MINIMUM LOW VOLTAGE WIRE BY MC.

SUNCOAST FACTORY WIRING, TYPICAL.

SUNCOAST FACTORY WIRED RELAY SHOWN IN "STORE UNOCCUPIED" CONDITION, TYPICAL.

S.E.C. TERMINAL BOARD



LENNOX PRODIGY 2.0 OR CORE UNIT CONTROLLER SETTINGS:
1. FOR ALL RTU'S EXCEPT AC#1, ELIMINATE THE MORNING WARMUP/OSA DAMPER DELAY. THE MENU PATH IS:
   - MAIN MENU > SETTIGNS > RTU OPTIONS > EDIT PARAMETERS

   FOR GAS HEAT UNITS (LGT):
   - CHANGE PARAMETER #65 SETTING TO 1

   FOR ELECTRIC HEAT UNITS (LCT):
   - CHANGE PARAMETER #58 TO 1

   ON UNIT AC#1
   - FOR GAS HEAT (LG) LEAVE AT 60-MINUTE DEFAULT
   - FOR ELECTRIC HEAT (LC) CHANGE VALUE TO EQUAL 90-MINUTE
2. FOR HUMIDITROL UNITS THE MENU PATH IS:
   - MAIN MENU > SETTIGNS > RTU OPTIONS > DEHUMIDIFIER MODE > NO CONDITIONS

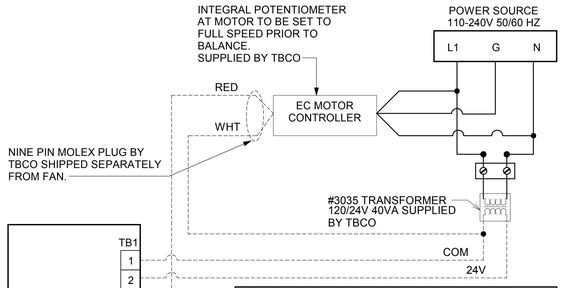
   SELECT LOCAL SENSOR AND SAVE
   - SET POINT: 60%
   - DEHUMID DEADBAND: 2%
3. FOR ALL UNITS, SET BLOWER TO OPERATE AT ONE AIRFLOW FOR ALL MODES. MENU PATH IS:
   - MAIN MENU > INSTALL > TEST AND BALANCE > BLOWER
   - SET ALL HEATING AND COOLING CFM VALUES TO THE SAME VALUE AS SCHEDULED.
   - ADJUST AIRFLOW BY MEANS OF ADJUSTABLE BLOWER MOTOR SHEAVE.

LENNOX FRESH AIR HEATING SETUP WHEN SPECIFIED:
1. INSTALL FRESH AIR TEMPERING KIT WIRING HARNESS AS RECOMMENDED BY LENNOX.
2. LOCATE SUPPLY AIR TEMPERATURE SENSOR IN SUPPLY DUCT DOWNSTREAM OF FIRST ELBOW. SECURE WIRING TO DUCT OR STRUCTURE WITH RUBBER COATED CLAMPS. DO NOT RUN WIRING INSIDE DUCT WORK. PROTECT ALL WIRING PENETRATIONS WITH RUBBER GROMMETS.
3. FOR PRODIGY 2.0 OR CORE UNIT CONTROLLER WITHIN MAIN MENU GO TO SET-UP TO TEST AND BALANCE TO DAMPER. FOLLOW MENU PATH SET FRESH AIR HEATING ENABLE TO "YES" SET FAH SETPOINT TO 66F THIS WILL TEMPER SUPPLY AIR BELOW 66F WITH INTERMITTENT HEATING WHEN THERMOSTAT IS NOT ACTIVELY CALLING FOR HEAT.
4. CHANGE PRODIGY 2.0 OR CORE UNIT CONTROLLER PARAMETER #157. WITHIN MAIN MENU GO TO SETTINGS TO RTU OPTIONS TO EDIT PARAMETER VALUE TO 14 FOR A 14F FAH DEADBAND AND SAVE.
5. CHANGE PRODIGY 2.0 OR CORE UNIT CONTROLLER PARAMETER #158. WITHIN MAIN MENU GO TO SETTINGS TO RTU OPTIONS TO EDIT PARAMETER ADJUST VALUE TO 300 SECONDS FOR 5 MINUTE CYCLE TIME AND SAVE.

2 ROOFTOP UNIT CONTROL WIRING - LENNOX
NOT TO SCALE

INTEGRAL POTENTIOMETER AT MOTOR TO BE SET TO FULL SPEED PRIOR TO BALANCE. SUPPLIED BY TBCO

POWER SOURCE 110-240V 50/60 HZ



NOTES

1. MECHANICAL CONTRACTOR SHALL MAKE PLASTIC LAMINATE OF THIS DETAIL AND INSTALL PERMANENTLY ON SIDE OF FAN HOUSING.
2. PROVIDE PLASTIC ENGRAVED LABEL AT ALL NEW THERMOSTATS WITH 1/4" HIGH WHITE LETTERING ON BLACK BACKGROUND, I.E. "RF#1 THERMOSTAT". PLACE LABELS ON WALL ADJACENT TO DEVICE, DO NOT APPLY DIRECTLY TO DEVICE.
3. PARAMETERS PRESET BY TBCO, BUT MC TO CHECK: SET THERMOSTAT TO 76° F. (FAN SHALL RUN AT 20% WHEN TEMP IS BELOW 76° F AND 100% WHEN TEMP IS ABOVE 80° F. FAN SPEED WILL LINEARLY INCREASE FROM 20% TO 100% AS TEMP INCREASES FROM 76° F TO 80° F.)

LEGEND

MC	MECHANICAL CONTRACTOR
TBCO	TOM BARROW COMPANY
- - - - - -	18 AWG MIN LOW VOLTAGE WIRING BY MC.
———	LINE VOLTAGE BY ELECTRICAL CONTACTOR

3 TECH CLOSET CONTROL DIAGRAM
NOT TO SCALE

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

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Milpitas, CA 95035
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info@acies.net

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MONTANA
CARMEN LEE
No. 60276PE
LICENSED PROFESSIONAL ENGINEER

CHICK-FIL-A
CUSTER & WASHINGTON
2770 N WASHINGTON ST
HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE: P14 LS XPS
RELEASE: 23.09
PRINTED FOR
Plan Check-Rev 4

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

PERMIT COPY
THIS SET OF APPROVED PLANS TO BE ON JOB SITE AT ALL TIMES

CONSULTANT PROJECT # 230392
DATE 01/30/24
DRAWN BY CP

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SHEET
CONTROL WIRING DIAGRAMS

SHEET NUMBER
M-701

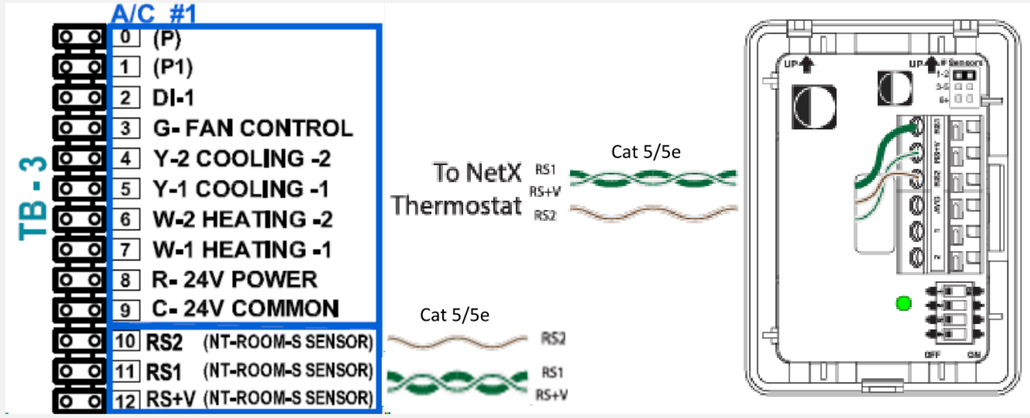
Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_MEC.rvt
10/23/2025 10:34:04 AM
30-LS-05484-M-701-CONTROL WIRING DIAGRAMS

FOR FURTHER QUESTIONS, PLEASE REACH OUT TO
TOBY AXMAN (SECONTROLSTDA@AOL.COM) FROM SUNCOAST CONTROLS.

Wiring from Rooftop Unit to Suncoast Panel (NetX Thermostat terminal block)
The wiring shall be solid 18 AWG, 12 conductor thermostat wire such as Honeywell Genesis TW-18/12 (47190101) or equal. For plenum applications (or where required by the AHJ), wiring shall be Connect-Air W1812C-2148, Honeywell Genesis TWP-18/12 (47690112) or equal.

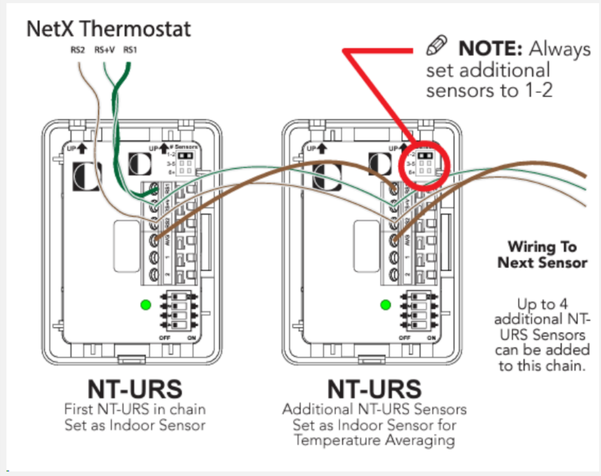
Wiring to NT-URS Remote Sensors
The wiring shall be Cat5/5e Cable. Plenum rated cable is only required for return air plenum applications (or where required by the AHJ).

Wiring from Suncoast Panel (NetX Thermostat terminal block) to first NT-URS Sensor



From Terminal Block	Wire Color	To Remote Sensor
RS+V	Green with White Stripe	RS+V
RS2	Brown with White Stripe	RS2
RS1	Green	RS1

Wiring from NT-URS Sensor to NT-URS Sensor (Averaging)



From Sensor *n*	Wire Color	To Sensor *n+1*
RS+V	Green with White Stripe	RS+V
RS2	Brown with White Stripe	RS2
AVG	Brown	RS1

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5200 Buffington Road
Atlanta, Georgia
30349-2998

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CHICK-FIL-A
CUSTER & WASHINGTON
2770 N WASHINGTON ST
HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE: P14 LS XPS
RELEASE: 23.09
PRINTED FOR
Plan Check-Rev 4

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

PERMIT COPY
THIS SET OF APPROVED PLANS TO BE ON JOB SITE AT ALL TIMES

CONSULTANT PROJECT # 230392
DATE 01/30/24
DRAWN BY CP

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SHEET
CONTROL WIRING DIAGRAMS NOTE

SHEET NUMBER
M-702

Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_MEC.rvt
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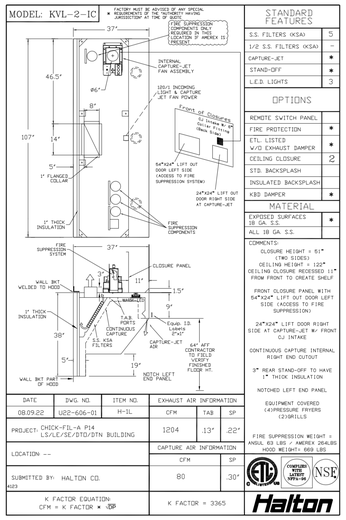
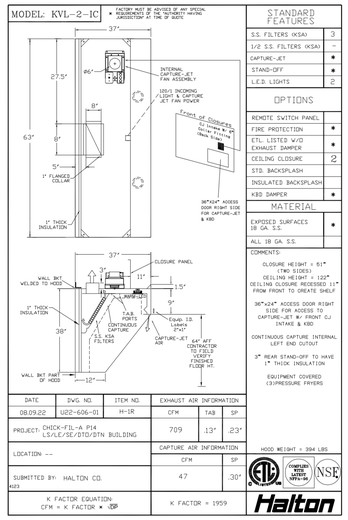


STANDARD FEATURES	
S.S. FILTERS (KSA)	5
1/2 S.S. FILTERS (KSA)	-
CAPTURE-JET	★
STAND-OFF	★
L.E.D. LIGHTS	3
OPTIONS	
REMOTE SWITCH PANEL	
FIRE PROTECTION	★
ETL LISTED W/O EXHAUST DAMPER	★
CEILING CLOSURE	2
STD. BACKSPLASH	
INSULATED BACKSPLASH	
KBD DAMPER	★
MATERIAL	
EXPOSED SURFACES 18 GA. S.S.	★
ALL 18 GA. S.S.	

COMMENTS:
CLOSURE HEIGHT = 61" (TWO SIDES)
CEILING HEIGHT = 122"
CEILING CLOSURE RECESSED 11" FROM FRONT TO CREATE SHELF
FRONT CLOSURE PANEL WITH 64"x24" LIFT OUT DOOR LEFT SIDE (ACCESS TO FIRE SUPPRESSION)
24"x24" LIFT DOOR RIGHT SIDE AT CAPTURE-JET W/ FRONT CJ INTAKE
CONTINUOUS CAPTURE INTERNAL RIGHT END OUTLET
3" REAR STAND-OFF TO HAVE 1" THICK INSULATION
NOTCHED LEFT END PANEL
EQUIPMENT COVERED (4)PRESSURE FYRERS (2)HILLS
FIRE SUPPRESSION WEIGHT = ANSUL R3 139 LBS / AMEREX 264LBS
HOOD WEIGHT= 668 LBS

DATE	DWG. NO.	ITEM NO.	EXHAUST AIR INFORMATION		
08.09.22	U22-606-01	H-1L	CFM	T.A.B.	SP
PROJECT: CHICK-FIL-A P14 LS/LE/SE/DTO/DTN BUILDING			1204	.13"	.22"
LOCATION: --			CAPTURE AIR INFORMATION		
			CFM		SP
SUBMITTED BY: HALTON CO.			80		.30"

K FACTOR EQUATION: CFM = K FACTOR ★ √SP
K FACTOR = 3365

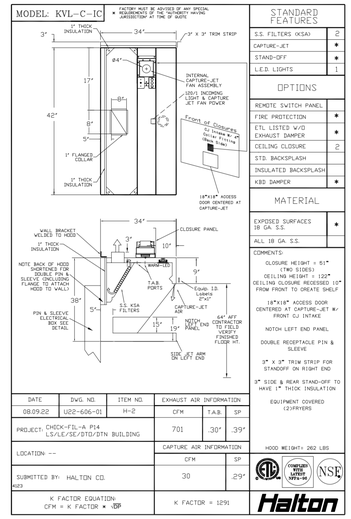


STANDARD FEATURES	
S.S. FILTERS (KSA)	3
1/2 S.S. FILTERS (KSA)	-
CAPTURE-JET	★
STAND-OFF	★
L.E.D. LIGHTS	2
OPTIONS	
REMOTE SWITCH PANEL	
FIRE PROTECTION	★
ETL LISTED W/O EXHAUST DAMPER	★
CEILING CLOSURE	2
STD. BACKSPLASH	
INSULATED BACKSPLASH	
KBD DAMPER	★
MATERIAL	
EXPOSED SURFACES 18 GA. S.S.	★
ALL 18 GA. S.S.	

COMMENTS:
CLOSURE HEIGHT = 61" (TWO SIDES)
CEILING HEIGHT = 122"
CEILING CLOSURE RECESSED 11" FROM FRONT TO CREATE SHELF
36"x24" ACCESS DOOR RIGHT SIDE FOR ACCESS TO CAPTURE-JET W/ FRONT CJ INTAKE & KBD
CONTINUOUS CAPTURE INTERNAL LEFT END OUTLET
3" REAR STAND-OFF TO HAVE 1" THICK INSULATION
EQUIPMENT COVERED (3)PRESSURE FRYERS

DATE	DWG. NO.	ITEM NO.	EXHAUST AIR INFORMATION		
08.09.22	U22-606-01	H-1R	CFM	T.A.B.	SP
PROJECT: CHICK-FIL-A P14 LS/LE/SE/DTO/DTN BUILDING			709	.13"	.23"
LOCATION: --			CAPTURE AIR INFORMATION		
			CFM		SP
SUBMITTED BY: HALTON CO.			47		.30"

K FACTOR EQUATION: CFM = K FACTOR ★ √SP
K FACTOR = 1959

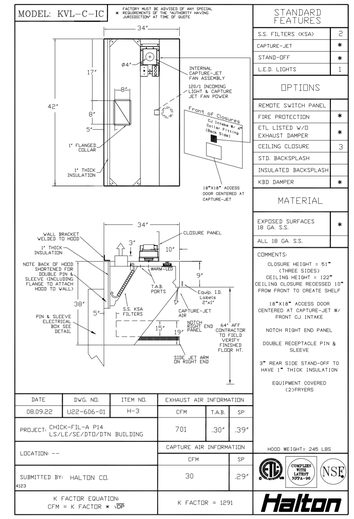


STANDARD FEATURES	
S.S. FILTERS (KSA)	2
CAPTURE-JET	★
STAND-OFF	★
L.E.D. LIGHTS	
OPTIONS	
REMOTE SWITCH PANEL	
FIRE PROTECTION	★
ETL LISTED W/O EXHAUST DAMPER	★
CEILING CLOSURE	2
STD. BACKSPLASH	
INSULATED BACKSPLASH	
KBD DAMPER	★
MATERIAL	
EXPOSED SURFACES 18 GA. S.S.	★
ALL 18 GA. S.S.	

COMMENTS:
CLOSURE HEIGHT = 61" (TWO SIDES)
CEILING HEIGHT = 122"
CEILING CLOSURE RECESSED 18" FROM FRONT TO CREATE SHELF
18"x18" ACCESS DOOR CENTERED AT CAPTURE-JET W/ FRONT CJ INTAKE
NOTCH LEFT END PANEL
DOUBLE RECEPTACLE PIN & SLEEVE
3" X 3" TRIM STRIP FOR STANDOFF ON RIGHT END
3" SIDE & REAR STAND-OFF TO HAVE 1" THICK INSULATION
EQUIPMENT COVERED (2)FRYERS

DATE	DWG. NO.	ITEM NO.	EXHAUST AIR INFORMATION		
08.09.22	U22-606-01	H-2	CFM	T.A.B.	SP
PROJECT: CHICK-FIL-A P14 LS/LE/SE/DTO/DTN BUILDING			701	.30"	.39"
LOCATION: --			CAPTURE AIR INFORMATION		
			CFM		SP
SUBMITTED BY: HALTON CO.			30		.29"

K FACTOR EQUATION: CFM = K FACTOR ★ √SP
K FACTOR = 1291

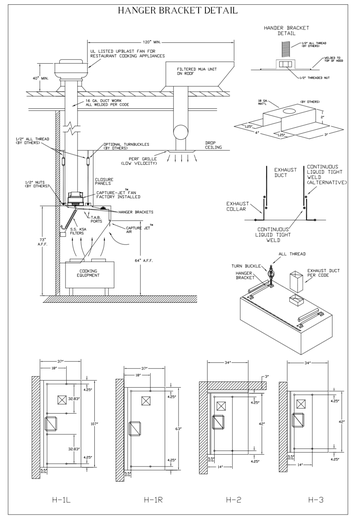


STANDARD FEATURES	
S.S. FILTERS (KSA)	2
CAPTURE-JET	★
STAND-OFF	★
L.E.D. LIGHTS	
OPTIONS	
REMOTE SWITCH PANEL	
FIRE PROTECTION	★
ETL LISTED W/O EXHAUST DAMPER	★
CEILING CLOSURE	3
STD. BACKSPLASH	
INSULATED BACKSPLASH	
KBD DAMPER	★
MATERIAL	
EXPOSED SURFACES 18 GA. S.S.	★
ALL 18 GA. S.S.	

COMMENTS:
CLOSURE HEIGHT = 61" (THREE SIDES)
CEILING HEIGHT = 122"
CEILING CLOSURE RECESSED 18" FROM FRONT TO CREATE SHELF
18"x18" ACCESS DOOR CENTERED AT CAPTURE-JET W/ FRONT CJ INTAKE
NOTCH RIGHT END PANEL
DOUBLE RECEPTACLE PIN & SLEEVE
3" REAR SIDE STAND-OFF TO HAVE 1" THICK INSULATION
EQUIPMENT COVERED (2)FRYERS

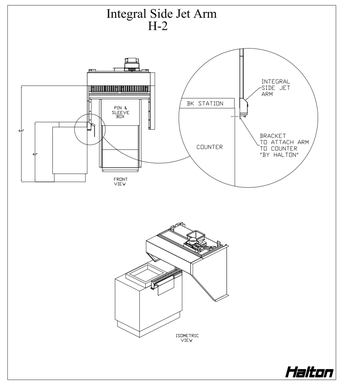
DATE	DWG. NO.	ITEM NO.	EXHAUST AIR INFORMATION		
08.09.22	U22-606-01	H-3	CFM	T.A.B.	SP
PROJECT: CHICK-FIL-A P14 LS/LE/SE/DTO/DTN BUILDING			701	.30"	.39"
LOCATION: --			CAPTURE AIR INFORMATION		
			CFM		SP
SUBMITTED BY: HALTON CO.			30		.29"

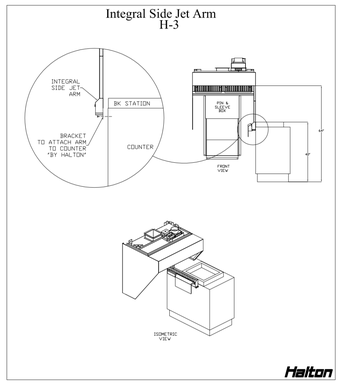
K FACTOR EQUATION: CFM = K FACTOR ★ √SP
K FACTOR = 1291

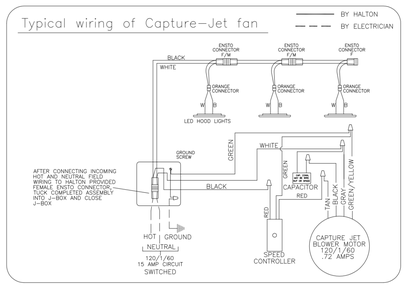


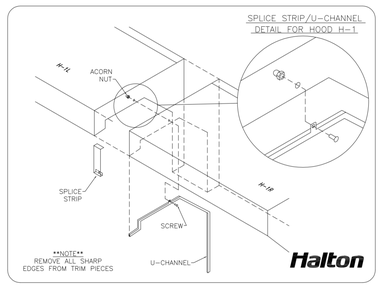
TAG	"L"	"W"	QUANTITY
H-1L	14"	8"	1
H-1R	8"	8"	1
H-2	8"	8"	1
H-3	8"	8"	1

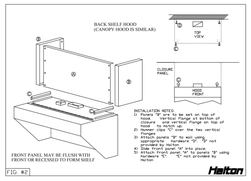
MATERIAL:
FRAME- 16GA CONT. WELDED GALV.
ADJUSTABLE PANEL 18 GA S.S.

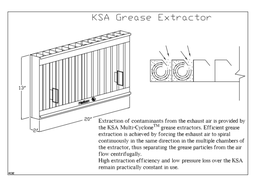




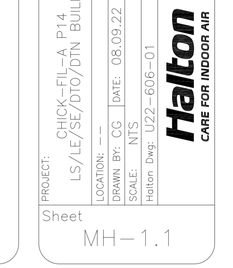








HALTON HOODS
- ETL LISTED PER LATEST 710 STANDARD
- BUILT PER NFPA 96
- NSF LISTED



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:
HALTON CO. (CANADA)
1021 BREVIK PLACE
MISSISSAUGA, ON. L4W 3R7
1-905-624-0301

WEBSITE: WWW.HALTON.COM
HALTON CO. (USA)
101 INDUSTRIAL DRIVE
SCOTTSVILLE, KY. 42164
1-270-237-5800

REV.	DATE	BY	DESCRIPTION
1			-
2			
3			
4			
5			
6			
7			

PROJECT: CHICK-FIL-A P14 LS/LE/SE/DTO/DTN BUILDING
LOCATION: --
DRAWN BY: CG
SCALE: NTS
DATE: 08.09.22
Halton Dwg: U22-606-01
Halton CARE FOR INDOOR AIR

Sheet MH-1.1

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:
1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.
2. ELECTRICAL AND TYPE OF COOKING EQUIPMENT.
NOTE TO APPROVER
ANY CHANGES IN COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT REPLACEMENT MAY REQUIRE A RECALCULATION OF THE EXHAUST AIRFLOW. IF THESE CHANGES OCCUR, A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.

☐ REVISE AND RESUBMIT
APPROVED FOR FABRICATION
☐ WITH NO CHANGES ☐ WITH CHANGES AS NOTED
APPROVED BY
DATE

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

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LICENSED PROFESSIONAL ENGINEER

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2770 N WASHINGTON ST
HELENA, MT 59602

FSR#05484
BUILDING TYPE / SIZE: P14 LS XPS
RELEASE: 23.09
PRINTED FOR
Plan Check-Rev 4
REVISION SCHEDULE

NO.	DATE	DESCRIPTION

PERMIT COPY
THIS SET OF APPROVED PLANS TO BE ON JOB SITE AT ALL TIMES

CONSULTANT PROJECT #	230392
DATE	01/30/24
DRAWN BY	CP

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SHEET
HALTON HOOD SHOP DRAWING I

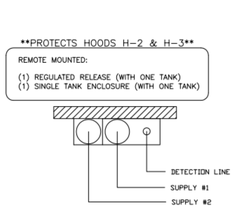
SHEET NUMBER
M-801

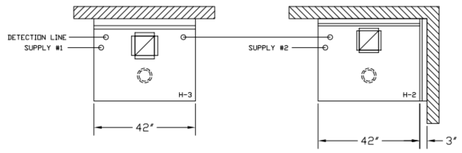
Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR05484_Custer & Washington FSU_MEC.rvt
10/23/2025 10:34:05 AM
30-LS-05484-M-801-HALTON HOOD SHOP DRAWING I

NOTE:

FIRE SYSTEM TYPE TO BE DETERMINED AT TIME OF ORDER RELEASE.

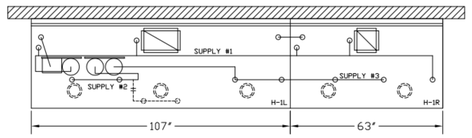
ANSUL





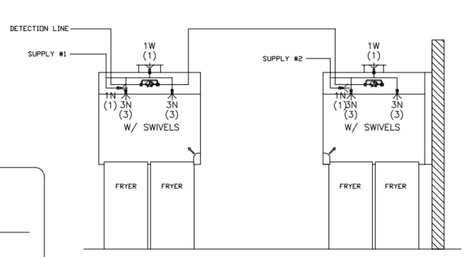
ANSUL R-102 FIRE SYSTEM
A) 6 GALLON SYSTEM (2 TANKS) (REMOTE MOUNTED) (FOR HOOD H-2 & H-3)
B) 3/8" BLACK IRON PIPING W/ 3/8" S.S. APPLIANCE DROPS

(1) REGULATED RELEASE
(2) EXTRA MICRO SWITCH ASSEMBLIES (MOUNTED IN REG. REL.)
(2) 3 GALLON TANKS

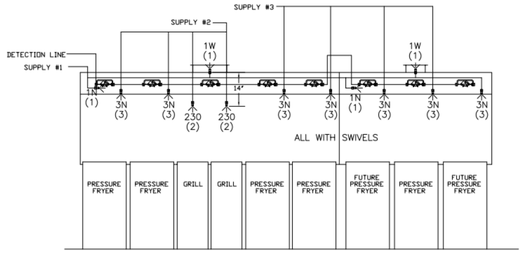


(1) OEM REGULATED RELEASE
(2) EXTRA MICRO SWITCH ASSEMBLIES (MOUNTED IN OEM REG. REL.)
(3) 3 GALLON TANKS

ANSUL R-102 FIRE SYSTEM
A) 9 GALLON SYSTEM (3 TANKS) (MOUNTED ON HOOD H-1L) (FOR HOODS H-1L & H-1R)
B) 3/8" BLACK IRON PIPING W/ 3/8" S.S. APPLIANCE DROPS



ANSUL R-102 FIRE SYSTEM LAYOUT



ANSUL R-102 FIRE SYSTEM LAYOUT

FUSIBLE LINK RATINGS

ITEM	TEMP
OPEN FRYERS	450°
2 BURNER / FLAT TOP	450°
PRESSURE FRYERS	450°
GRILL	450°
EXHAUST COLLARS	450°

ANSUL R-102 FIRE SYSTEM NOTES
THREE TANK SYSTEM MOUNTED ON TOP OF (H-1L)
MAXIMUM FLOW POINTS = 33

ANSUL R-102 FIRE SYSTEM NOTES
TWO TANK SYSTEM REMOTE MOUNTED
MAXIMUM FLOW POINTS = 22

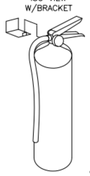
ITEM #	QTY	DESCRIPTION	FLOW PTS (TOTAL)
1W	4	DUCT NOZZLES	4
1N	4	PLENUM NOZZLES	4
230	2	APPLIANCE NOZZLES	4
3N	11	APPLIANCE NOZZLES	33
		TOTAL FLOW POINTS - 45	

ITEM #	QTY	DESCRIPTION
#200	8	SERIES DETECTORS W/ FUSIBLE LINKS
#201	2	TERMINAL DETECTOR W/ FUSIBLE LINKS
#202	1	OEM REGULATED RELEASE W/ DOUBLE POLE MICRO SWITCH
#202	1	REGULATED RELEASE W/ DOUBLE POLE MICRO SWITCH
#203	5	3 GALLON TANKS
#204	1	SINGLE TANK ENCLOSURE
#205	2	REMOTE PULL STATION

ANSUL R-102 FIRE SYSTEM
UL LISTED PER STD LATEST STD 300

1. FINAL INSTALLATION IS TO BE MADE IN ACCORDANCE WITH ALL APPLICAPBLE CODES
2. ALL ELECTRICAL COMPONENTS FOR EQUIPMENT SHUT DOWN TO BE PROVIDED BY THE ELECTRICIAN. MICRO-SWITCH INSTALLED IN REGULATED RELEASE BY ANSUL INSTALLER
3. REMOTE PULL STATION LOCATED PER MECHANICAL DRAWINGS

FIRE EXTINGUISHER



5 LBS. ABC
MODEL B402 QTY:_____

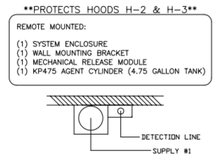
10 LBS. ABC
MODEL B456 QTY:_____

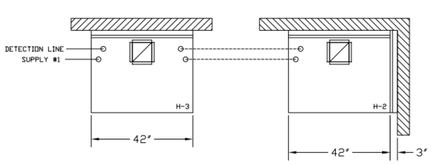
6 LTR CLASS K
MODEL C-260 QTY:_____

SUPPLIED BY HALTON

1/2" BLACK IRON SUPPLY LINE REQ'D FROM TANK TO FIRST BRANCH LINE FOR 475 TANKS ONLY!

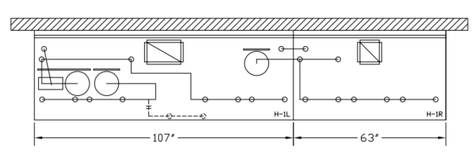
AMEREX





(1) SYSTEM ENCLOSURE
(1) WALL MOUNTING BRACKET
(1) MECHANICAL RELEASE MODULE
(2) EXTRA MICRO SWITCH ASSEMBLIES (MOUNTED IN MECHANICAL REL. MODULE)
(1) KP475 AGENT CYLINDERS (4.75 GALLON TANK)

AMEREX FIRE SYSTEM
A) (1) KP475 TANKS - 14 FLOW POINTS (REMOTE MOUNTED) (FOR HOOD H-2 & H-3)
B) 1/2" & 3/8" BLACK IRON PIPING W/ 3/8" S.S. APPLIANCE DROPS

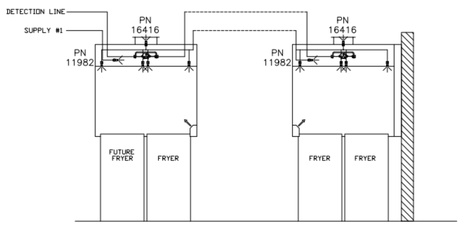


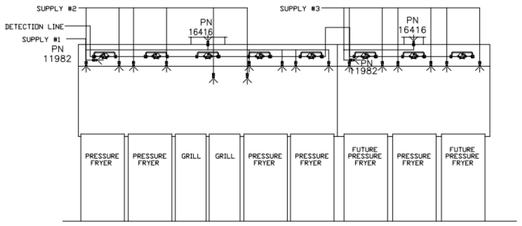
(1) MECHANICAL RELEASE MODULE
(2) EXTRA MICRO SWITCH ASSEMBLIES (MOUNTED IN MECHANICAL REL. MODULE)
(1) 3.75 GALLON TANK
(2) 4.75 GALLON TANKS

AMEREX FIRE SYSTEM
A) (1) KP375 TANK - 11 FLOW POINTS
(2) KP475 TANKS - 14 FLOW POINTS (MOUNTED ON HOOD H-1L) (FOR HOODS H-1L & H-1R)
B) 1/2" & 3/8" BLACK IRON PIPING W/ 3/8" S.S. APPLIANCE DROPS

ALL APPLIANCE NOZZLES FOR H-2 & H-3 ARE PN 11982 NOZZLES W/ SWIVELS.

ALL APPLIANCE NOZZLES FOR PRESSURE FRYERS ARE PN 13729 NOZZLES W/ SWIVELS. ALL GRILL NOZZLES ARE 14178 NOZZLES W/ SWIVELS.





AMEREX FIRE SYSTEM LAYOUT

AMEREX FIRE SYSTEM LAYOUT

FUSIBLE LINK RATINGS

ITEM	TEMP
OPEN FRYERS	450°
2 BURNER / FLAT TOP	450°
PRESSURE FRYERS	450°
GRILL	450°
EXHAUST COLLARS	450°

AMEREX FIRE SYSTEM NOTES
(1) KP375 & (2) KP475 TANK SYSTEM MOUNTED ON TOP OF (H-1L)
MAXIMUM FLOW POINTS = 39

AMEREX FIRE SYSTEM NOTES
KP475 TANK SYSTEM REMOTE MOUNTED
(1) TANK
MAXIMUM FLOW POINTS = 14

ITEM #	QTY	DESCRIPTION	FLOW PTS (TOTAL)
16416	4	DUCT NOZZLES	4
11982	4	PLENUM NOZZLES	4
11982	8	APPLIANCE NOZZLES	8
14178	2	APPLIANCE NOZZLES	4
13729	14	APPLIANCE NOZZLES	28
		TOTAL FLOW POINTS - 48	

ITEM #	QTY	DESCRIPTION
12508-P001	10	DETECTOR BRACKET ASSEMBLY
13334	1	KP375 AGENT CYLINDER
17379	3	KP475 AGENT CYLINDER
18001	1	MECHANICAL RELEASE MODULE W/ DOUBLE POLE MICRO SWITCH
25851	1	SYSTEM ENCLOSURE W/ DOUBLE POLE MICRO SWITCH
16920	1	WALL MOUNTING BRACKET
21481	3	REMOTE MANUAL PULL STATION

AMEREX FIRE SYSTEM
TESTED & LISTED BY UNDERWRITERS LABORATORIES, INC. TO UL STANDARD 300.

1. FINAL INSTALLATION IS TO BE MADE IN ACCORDANCE WITH ALL APPLICAPABLE CODES
2. ALL ELECTRICAL COMPONENTS FOR EQUIPMENT SHUT DOWN TO BE PROVIDED BY THE ELECTRICIAN. MICRO-SWITCH INSTALLED IN REGULATED RELEASE BY AMEREX INSTALLER
3. REMOTE PULL STATION LOCATED PER MECHANICAL DRAWINGS

THE DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY ALL THE FOLLOWING:
1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.
2. THE CORRECT OPERATING TYPE OF COOKING EQUIPMENT.
NOTE TO APPROVER
ANY CHANGES IN COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT ARRANGEMENT MAY AFFECT THE PERFORMANCE OF THIS SYSTEM. IF ANY OF THESE CHANGES OCCUR, A RECALCULATION OR/AND ARRAY MAY BE REQUIRED.
☐ REVISE AND RESUBMIT
APPROVED FOR FABRICATION ☐ WITH CHANGES AS NOTED
☐ WITH NO CHANGES
APPROVED BY DATE

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW: ☐
HALTON CO. (CANADA)
1021 BREVIK PLACE L4W 3R7
MISSISSAUGA, ON
1-905-624-0301

WEBSITE: WWW.HALTON.COM ☒
HALTON CO. (USA)
101 INDUSTRIAL DRIVE
SCOTTSVILLE, KY 42164
1-270-237-3800

REV.	DESCRIPTION	BY	DATE
1	-		
2			
3			
4			
5			
6			
7			

PROJECT: CHICK-FIL-A P14 LS/LE/SE/DTO/DTN BUILDING
LOCATION: --
DRAWN BY: CC
DATE: 08.09.22
SCALE: NTS
Halton Dwg: 022-606-02FS

Halton CARE FOR INDOOR AIR

Sheet MH-1.2

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

ACIES ENGINEERING
400 N. McCarthy Blvd, ste 250
Milpitas, CA 95035
ph: (408) 522-5255
fx: (408) 522-5260
info@acies.net
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MONTANA
CARMEN LEE
No. 60276PE
LICENSED PROFESSIONAL ENGINEER

CHICK-FIL-A
CUSTER & WASHINGTON
2770 N WASHINGTON ST
HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE: P14 LS XPS
RELEASE: 23.09
PRINTED FOR
Plan Check-Rev 4

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

PERMIT COPY
THIS SET OF APPROVED PLANS TO BE ON JOB SITE AT ALL TIMES

CONSULTANT PROJECT # 230392
DATE 01/30/24
DRAWN BY CP

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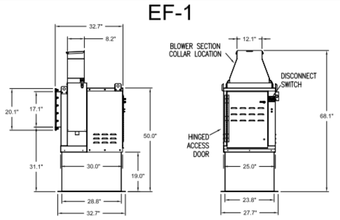
SHEET
HALTON HOOD SHOP DRAWING II

SHEET NUMBER
M-802

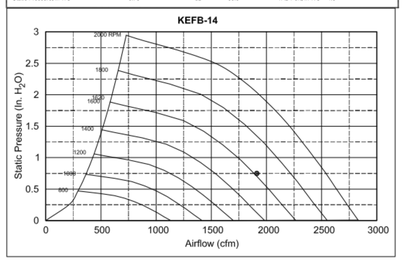
Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR05484_Custer & Washington FSU_MEC.rvt
10/23/2025 10:34:05 AM
30-LS-05484-M-802-HALTON HOOD SHOP DRAWING II

EF-1

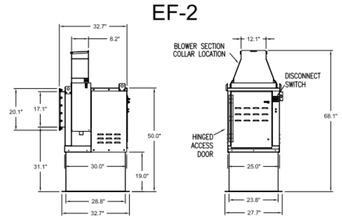


Halton KEFB Exhaust Fan

Job Name	Chick-fil-A				
Location	EF-1				
Date	1/26/2023	Item No		Qty	
Model		KEFB-14	Fan RPM	1,620	Volts/Ph/Amps: 115/1/60
Airflow, cfm		1,913	Fan BHP	0.55	Motor HP 0.75
Static Pressure, in WC		0.75	dB	85.3	TAB Port, in WC 4.8

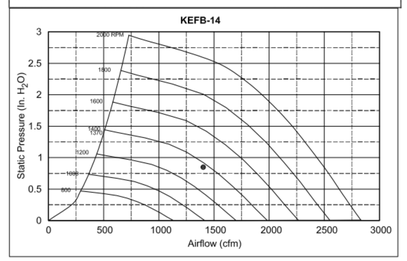


EF-2



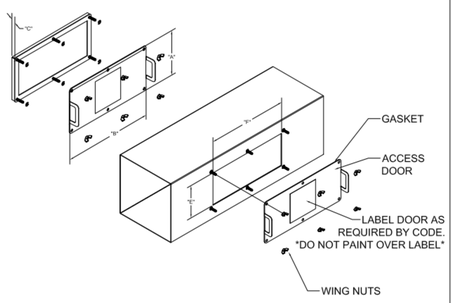
Halton KEFB Exhaust Fan

Job Name	Chick-fil-A				
Location	EF-2				
Date	1/26/2023	Item No		Qty	
Model		KEFB-14	Fan RPM	1,370	Volts/Ph/Amps: 115/1/60
Airflow, cfm		1,402	Fan BHP	0.34	Motor HP 0.75
Static Pressure, in WC		0.95	dB	81	TAB Port, in WC 2.6

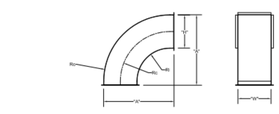


GREASE ACCESS DOOR SCHEDULE					
	DOOR SIZE		OPTIONAL FLANGE	OPENING SIZE	
MODEL	"A"	"B"	"C"	"E"	"F"
KAP0715	7	15	FLAT	5.5	13.5
KAP1015	10	15	1/2	7	12

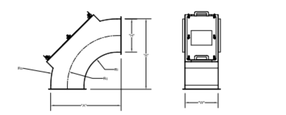
ACCESS DOORS SHALL BE U.L. 1978 LISTED OR FIELD FABRICATED, REQUIRE NO TOOLS FOR REMOVAL AND MEET THE REQUIREMENTS OF THE CURRENT EDITION OF THE IMC. ACCESS DOOR SHALL BE SECURED WITH THUMB SCREWS. ACCESS DOORS SHALL BE SEALED WITH A MINIMUM 1500 DEREE GASKET MATERIAL



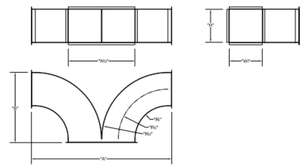
INSTALL PER MANUFACTURER'S INSTRUCTIONS



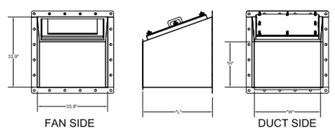
	"H"	"W"	"A"	Ro	Rc	Ri
EF-2	8	8	17	16	12	8
EF-2	8	10	17	16	12	8



	"H"	"W"	"A"	Ro	Rc	Ri
	14	8	29	28	21	14
	8	8	17	16	12	8

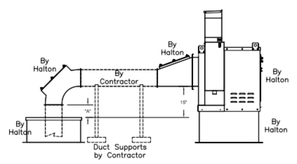


	"Wi"	"H"	Wo	Ro	Rc	Ri	"A"	"B"
EF-1	8	14	16	16	12	8	34	17
EF-2	8	10	16	16	12	8	34	17



TRANSITION	"H"	"W"	"L"
EF-1 (5)	14	16	25
EF-2 (6)	10	16	17

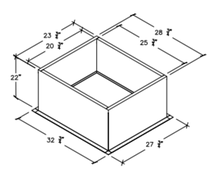
	"W"	"H"
EF-1	16	14



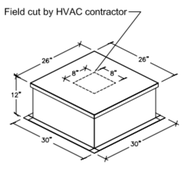
"A" DISTANCE AVAILABLE FOR DUCT SLOPE

ELBOW	"A"
EF-1 14X8	8
EF-2 8X8	10

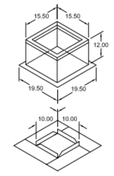
Halton Kitchen Exhaust Fan Curb
Insulated Duct Curb



Kitchen Exhaust Fan Roof Curb
Standard Construction Features:
– Roof Curb fits between the building roof and the fan mounted directly to the roof support structure – Constructed of 18 ga aluminized steel – Straight Sided without a cant – 2 in. mounting flange – Height is 22 in.



Insulated Duct Curb
Standard Construction Features:
– Duct Curb fits between the building roof and the fan mounted directly to the roof support structure – Constructed of 18 ga aluminized steel – Straight Sided without a cant – 2 in. mounting flange – Height is 12 in. – 16 ga. cap



Model: GPI
For Model: XRED-090-G
Curb & Damper Tray

Accessories				
	Security Bars	Liner	Insulation (in.)	Insulation R Value
Material: Galvanized	No	No	1	K4.3

General

Tag	Qty	Model	Sizing Method	Undersizing (in.)	Weight (lb)	Shipped Assembled	Union	Label
EF-3	1	GPI-17	Nominal	1.5	14	Yes	No Preference	

Dimensions

Curb Height (in.)	Nominal Outside Width (in.)	Nominal Outside Length (in.)	Actual Outside Width (in.)	Actual Outside Length (in.)	Actual Inside Width (in.)	Actual Inside Length (in.)	Flange Width (in.)	Flange Length (in.)	Hinge Base Width* (in.)	Hinge Base Length* (in.)
12	17	17	15.5	15.5	12	12		19.5	16	

*May not be applicable

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:
1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS
2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.

NOTE: ANY CHANGES IN COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CONDITIONS OCCUR, AS RECALCULATION OF EXHAUST AIRFLOW MAY BE REQUIRED.

☐ REVISE AND RESUBMIT
APPROVED FOR FABRICATION ☐ WITH CHANGES AS NOTED
☐ WITH NO CHANGES
APPROVED BY DATE

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:
HALTON CO. (CANADA) ☐
1021 BREVIK PLACE
MISSISSAUGA, ON L4W 3R7
1-905-624-0301

HALTON CO. (USA) ☒
101 INDUSTRIAL DRIVE
SCOTTSVILLE, KY 42164
1-270-237-5600
WEBSITE: www.halton.com

REV.	DESCRIPTION	DATE	BY

PROJECT: CHICK-FIL-A FAN DETAILS
LOCATION: PROTO DATE: 05.10.23 SE/LF/LS/LSR (BN & BP)
DRAWN BY: ACF
SCALE:
CONSULTANT: Halton

DRAWING TITLE: CFA FAN DETAILS
DRAWING No.: U23-459
REV. NO.: 0 SHEET NO.: 1 of 2

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

ACIES ENGINEERING
400 N. McCarthy Blvd, ste 250
Milpitas, CA 95035
ph: (408) 522-5255
fx: (408) 522-5260
info@acies.net

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MONTANA
CARMEN LEE
No. 60276PE
LICENSED PROFESSIONAL ENGINEER

CHICK-FIL-A
CUSTER & WASHINGTON
2770 N WASHINGTON ST
HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE: P14 LS XPS
RELEASE: 23.09
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SHEET: HALTON FANS SHOP DRAWING I

SHEET NUMBER
M-803

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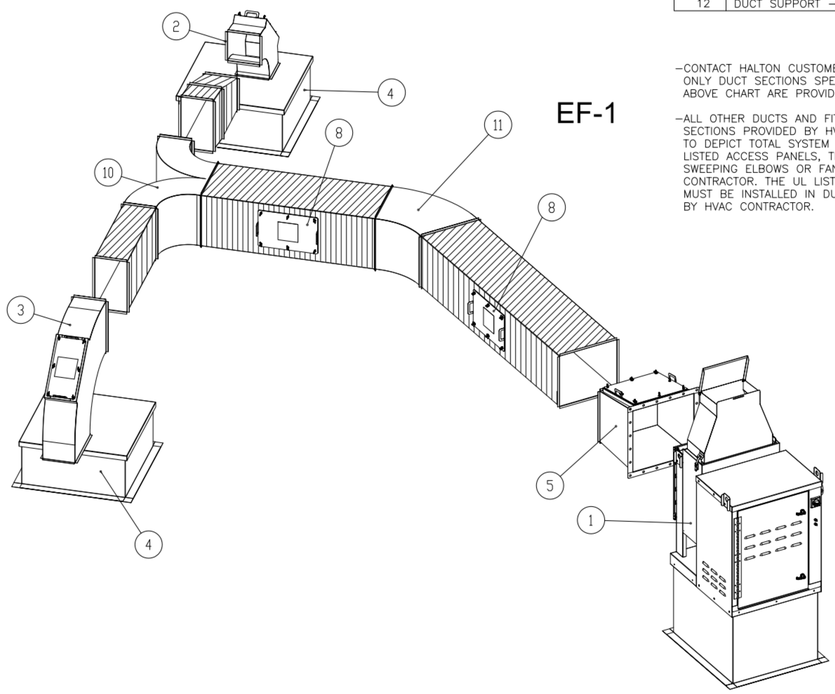
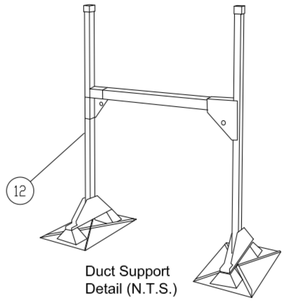
10/23/2025 10:34:06 AM
30-LS-05484-M-803-HALTON FANS SHOP DRAWING I

ITEM	DESCRIPTION	QTY
1	KEFB EXHAUST FAN W/ ROOF CURB	2
2	LONG SWEEPING ELBOW W/ UL LISTED ACCESS PANEL 8X8	3
3	LONG SWEEPING ELBOW W/ UL LISTED ACCESS PANEL 14X8	1
4	DUCT ROOF CURB W/ CAP 26X26X9	4
5	FAN TRANSITION W/ UL LISTED ACCESS PANEL 14X16	1
6	FAN TRANSITION W/ UL LISTED ACCESS PANEL 10X16	1
7	UL LISTED ACCESS PANEL 7X15	4
8	UL LISTED ACCESS PANEL 10X15	2
9	LONG SWEEPING WYE 8X10	1
10	LONG SWEEPING WYE 14X8	1
11	45° 14X16	1
12	DUCT SUPPORT – AS NEEDED, BY HVAC CONTRACTOR	

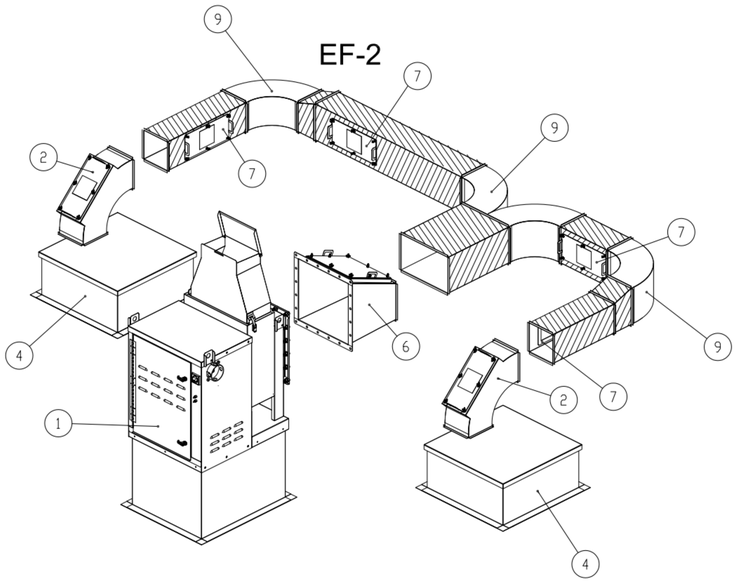
–CONTACT HALTON CUSTOMER SERVICE FOR HALTON PROVIDED ITEMS ONLY DUCT SECTIONS SPECIFIED BY NUMBERS AND SHOWN IN THE ABOVE CHART ARE PROVIDED BY HALTON

–ALL OTHER DUCTS AND FITTINGS BY HVAC CONTRACTOR. DUCT SECTIONS PROVIDED BY HVAC CONTRACTOR ARE SHOWN IN ORDER TO DEPICT TOTAL SYSTEM DESIGN. DUCT SECTIONS SHOWN WITH UL LISTED ACCESS PANELS, THAT ARE NOT HALTON PROVIDED LONG SWEEPING ELBOWS OR FAN TRANSITIONS, ARE PROVIDED BY HVAC CONTRACTOR. THE UL LISTED ACCESS PANELS PROVIDED BY HALTON MUST BE INSTALLED IN DUCT SECTIONS NOT PROVIDED BY HALTON BY HVAC CONTRACTOR.





Duct Support
Detail (N.T.S.)



–ALL DUCTS AND FITTINGS DEPICTED BY HATCH AREAS ARE BY HVAC CONTRACTOR.

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:
1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS
2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.

NOTE TO APPROVER:
ANY CHANGES TO COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR, A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.

☐ REVISE AND RESUBMIT

APPROVED FOR FABRICATION ☐ WITH CHANGES AS NOTED
☐ WITH NO CHANGES

APPROVED BY DATE

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

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MISSISSAUGA, ON L4W 3R7
1-905-624-0301

☒ HALTON CO. (USA)
101 INDUSTRIAL DRIVE
SCOTTSVILLE, KY 42164
1-270-237-5600

WEBSITE: www.halton.com

REV.	BY	DATE	REVISION DESCRIPTION

PROJECT: CHICK-FIL-A FAN DETAILS
LOCATION: PROTO SE/LE/LS/LSR (BN & BP)
DRAWN BY: ACF DATE: 05.10.23
SCALE:
CONSULTANT: Halton

DRAWING TITLE: CFA FAN DETAILS
DRAWING No.: U23-459
REV. NO.: 0 SHEET NO.: 2 of 2

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FSR#05484

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SHEET
HALTON FANS SHOP DRAWING II

SHEET NUMBER
M-804

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30-LS-05484-M-804-HALTON FANS SHOP DRAWING II

Product Information Sheet

FyeWrap®

FyeWrap® Elite® 1.5 Duct Insulation – Grease Duct ASTM E2336 System

Introduction

Unifrax's FyreWrap® Elite® 1.5 Duct Insulation is a two-layer flexible enclosure for two-hour rated commercial kitchen grease ducts. FyreWrap Elite 1.5 Duct Insulation is tested per ASTM E2336 and is acceptable as an alternate to a traditional fire-rated shaft. Installed as a two-layer system, FyreWrap Elite 1.5 complies with the International Mechanical Code (IMC) and Uniform Mechanical Code (UMC). FyreWrap Elite 1.5 Duct Insulation offers the following product features:

- 2-hour fire-resistance rating
- Alternate to shaft enclosure
- Complies with IMC and UMC
- Tested per ASTM E2336
- Two-layer system
- High-temperature, biosoluble insulation
- Zero clearance to combustibles, at any location
- GREENGUARD listed for Microbial Resistance

Typical Product Parameters

Thickness	1.5"
Nominal Density	6pcf
Standard Product Form	Scrim Encapsulated
Product Availability	24"w x 25LF 48"w x 25LF

Typical Product Properties

ICC Evaluation Services	Evaluation Report ESR-2224
Intertek Laboratories Listed	Duct System: Design No. UNI/BI 120-02, UNI/BI 120-14, UNI/WA 120-01
ASTM E2336	Passes all tests
ASTM E2336 Internal Grease Duct Test	Zero Clearance to Combustibles at all locations on wrap
ASTM E119 Full Scale Engulfment Test	2-hour Fire Resistance Rating
ASTM E119 Vertical Wall Test	2-hour Fire Resistance Rating
ASTM E84, UL 723, ULC S102.2 – UL File No. R14514	Unfaced Blanket / Encapsulated
Flame Spread/Smoke Developed Rating	Zero/Zero / <25/<50
ASTM E814 Firestop Test F-Rating = 2 Hrs., T-Rating = 2 Hrs.	Firestop System: UNI/FRD 120-19, UNI/BI 120-02, UNI/BI 120-14
ASTM E136 Non-Combustibility Test	Passes
ASTM C518 Durability Test	Passes; R-Value = 4.8 per inch at 75°F
ASTM C518 Thermal Resistance	R-Value of Elite 1.5 (1½") = 7.2
ASTM D6329-03 Microbial Resistance	Highly Resistant to Mold Growth
California State Fire Marshal Listing	No: 2440-1478:100

Complies with: NFPA 96 (all editions), 1997 ICBO Uniform Mechanical Code (UMC), 1997 ICBO Uniform Building Code (UBC), 2018 International Mechanical Code (IMC), 2018 IAPMO UMC (Uniform Mechanical Code).

ESR-2224 · Intertek · Complies with: NFPA 96 · INTERNATIONAL FIRESTOP COUNCIL

FyreWrap® Elite® 1.5 Duct Insulation

Product Components

Core Material: FyreWrap Elite 1.5 incorporates Insulfrax® Thermal Insulation as its core material. Insulfrax is a high-temperature insulation made from a calcia, magnesia, silica chemistry designed to enhance biosolubility. It provides excellent insulation in a noncombustible blanket product form rated to 2300°F (1260°C).

Encapsulating Material: The core insulation blanket is completely encapsulated in an aluminum foil fiberglass-reinforced scrim covering. This scrim provides additional handling strength as well as protection from grease, moisture absorption and tearing.

Installation (Figure 1)

To minimize waste, FyreWrap Elite 1.5 should be rolled out tautly before measuring and making any material cuts. Install both layers of wrap with transverse (perimeter) and longitudinal butted joints. Between the first and second layers of wrap stagger transverse joints and offset longitudinal joints to different corners. All visually exposed blanket edges are to be sealed with minimum 3" wide aluminum foil tape and the use of filament tape is not required but is permitted to ease installation. The installation materials must comply with the options listed in Table 1.

Note: 3" material overlaps can be substituted for compression butt joints.

Table 1: Material Requirements

Item	Type and Specification
Bands	• Carbon steel or Stainless steel • Min. ½" wide & nom. 0.015" thick
Crimp clips	• Carbon steel or Stainless steel • Min 1" long
Pins	• Steel • Weld Pins or Cup Head • Min. 12 Gauge
Washers	• Galvanized Steel • Min. 2½" square or 1½" round

Attachment Options

Banding only

Place bands at 11½" on both sides of all second layer transverse butt joints and add additional bands as needed to ensure spacing is max. 10½" on center. Tighten banding to firmly hold the wrap system in place but not so tight as to cut or damage the blanket. Secure bands with crimp clips.

Note: No bands are required on the first layer.

Banding and Pins

For ducts greater than 24", in addition to installing bands as described in the Banding Option, weld steel insulation pins in rows to the underside of horizontal runs[1]. Locate pins on both sides of all second layer transverse butt joints 3" apart. Add additional rows as needed to ensure longitudinal spacing is max. 10". Pins in each row are to be max. 6" from each duct edge and max. 12" on center. Impale FyreWrap Elite 1.5 Duct Insulation over the pins and secure with washers (cup head pins also permitted).

[1] Pins are not required on vertical duct sections when using this option.

Note: In lieu of banding, pins installed on all sides of the duct is permitted.

Access Door (Figure 2)

Field fabricated and prefabricated grease duct access doors are permitted for use with FyreWrap Elite 1.5 Duct Insulation.

Field fabricated access doors are protected with three layers of FyreWrap Elite 1.5 Duct Insulation. A gasket of 0.5" thick unfaced FyreWrap or ceramic fiber blanket is initially installed between the duct and the access door cover. Weld threaded rod to each corner of the access door opening. Cover with hollow steel tubes (optional) for easy removal of blanket. Weld at least four steel insulation pins to the outside of the door cover panel, 1" from each corner. Cut through the two layers of FyreWrap Elite 1.5 Duct Insulation already covering the duct and access door opening. Leave the interior piece in place. Cut back the outer layer to form an opening with perimeter dimensions that extend 1" beyond the inner layer. Cut a piece of FyreWrap Elite 1.5 Duct Insulation that matches the dimensions of the opening and install over pins to fit tightly within the existing material. Cut an additional piece of insulation with perimeter dimensions that extend 1" beyond the layer below. Install over the insulation pins. Throughout the installation process, seal all cut edges with aluminum foil tape. Secure with washers and bend over excess pin lengths to eliminate safety hazards. Place washers on threaded rod and secure with nuts. Do not install banding over this area.

Prefabricated – Ductmate Ultimate and Ductmate F2-HT prefabricated access doors are permitted and must be installed in accordance with Ductmate Industries, Inc. installation instructions and the applicable code. The prefabricated access door is protected with three layers of FyreWrap Elite 1.5 Duct Insulation. The first layer is cut to the size of the door. A successive layer (two additional layers) is sized to create an overlap of 1" beyond the layer immediately below. All edges of insulation blanket must be protected with aluminum foil tape. A No. 16 gauge outer plate the same dimension as the outer layer of insulation blanket is held in place over the insulation using threaded rod and wing nuts. The outer plate is supplied with the Ultimate door and F2-HT doors. Access doors are available from Ductmate Industries, Inc. Contact www.ductmate.com or 1-800-245-3188 for additional information or local distributors. Ask for the Access Door Product Line Manager.

Firestop Systems (Figures 3 and 4)

Where ducts insulated with FyreWrap Elite 1.5 Duct Insulation pass through fire-rated walls and floors, the penetration opening shall be firestopped to maintain the fire rating of the assembly. Firestop Systems acceptable for use with FyreWrap Elite 1.5 Duct Insulation ASTM E2336 System at the time of printing are detailed on pages 4 and 5.

Duct Support (Figure 5)

Horizontal duct support systems do not require FyreWrap insulation when constructed using a minimum ⅛" diameter uninsulated all-thread steel rod and 1½" x 1½" x ⅛" uninsulated steel angle spaced a maximum 60" on center along the length of the duct. A minimum clearance of 1" is required between the protected duct and the steel rod. To increase hanger spacing to 72" on center, ½" all-thread steel rod and 2" x 2" x ¼" steel angle are required. Vertical duct support systems do not require FyreWrap insulation when constructed using minimum 1½" x 1½" x ⅛" steel angle brackets located on opposite sides of the duct, on the top and bottom of each floor-ceiling assembly. The supports are attached to the duct with welds. Maximum spacing between vertical supports shall be established by structural calculations in accordance with the applicable code, that are submitted to the building official for approval.

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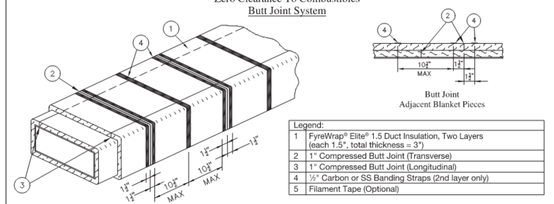
Figure 1. Butt Joint Technique

FyreWrap® Elite® 1.5 Duct Insulation
Commercial Kitchen Grease Duct System
ASTM E2336
2-Hour Fire-Rated Enclosure, Shaft Alternative
Zero Clearance To Combustibles
Butt Joint System

FP-959



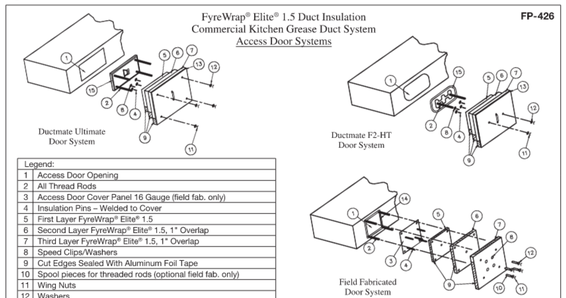
Legend:	
1	FyreWrap® Elite® 1.5 Duct Insulation, Two Layers (each 1.5", total thickness = 3")
2	1" Compressed Butt Joint (Transverse)
3	1" Compressed Butt Joint (Longitudinal)
4	½" Carbon or SS Banding Straps (2nd layer only)
5	Filament Tape (Optional)

*Applies to both horizontal and vertical duct orientations.
**Review page 2 prior to installation for detailed instructions.

Figure 2. Access Door

FyreWrap® Elite® 1.5 Duct Insulation
Commercial Kitchen Grease Duct System
Access Door Systems

FP-426



Legend:	
1	Access Door Opening
2	All Thread Rods
3	Access Door Cover Panel 16 Gauge (field fab. only)
4	Insulation Pins – Welded to Cover
5	First Layer FyreWrap® Elite® 1.5
6	Second Layer FyreWrap® Elite® 1.5, 1" Overlap
7	Third Layer FyreWrap® Elite® 1.5, 1" Overlap
8	Speed Clips/Washers
9	Cut Edges Sealed With Aluminum Foil Tape
10	Spool pieces for threaded rods (optional field fab. only)
11	Wing Nuts
12	Washers
13	Insulation plate
14	Unfaced FyreWrap blanket or Ceramic fiber gasket, ½" thick
15	Prefabricated access door

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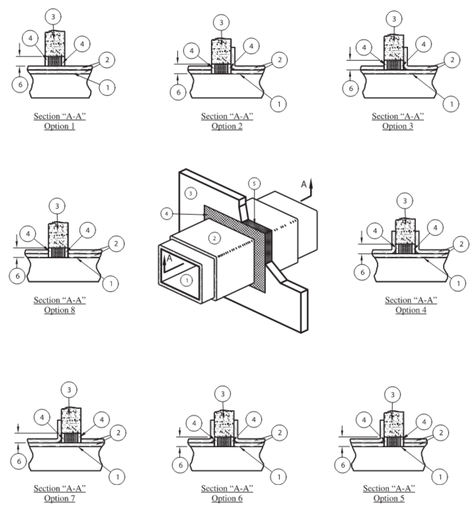
Figure 3. Firestop Installation

FyreWrap® Elite® 1.5 Duct Insulation Through Penetration Firestops Wall
Intertek Design No. UNI/BI 120-02 & 120-14, F-Rating = 2 Hrs. T-Rating = 2 Hrs.

FP-690



Legend:	
1	Grease Duct, max. 2401 in² area, 49" max width
2	FyreWrap® Elite® 1.5 Duct Insulation, Two Layers
3	Fire-Resistive Concrete, Gypsum, or CMU block wall assembly, 2 hr. rated
4	Firestop Sealant, ⅛" depth, overlapping on wall and duct min. ½" 3M Fire Barrier 1000NS or Hilti FS-ONE or STI SpecSeal or Tremco FyreSil
5	Unfaced FyreWrap® Elite® 1.5 or 4 PCF Mineral Wool compressed 50% option 1 and 33% options 2-8, recessed ⅛" from both sides of wall
6	Annular space, ½" to 4½"

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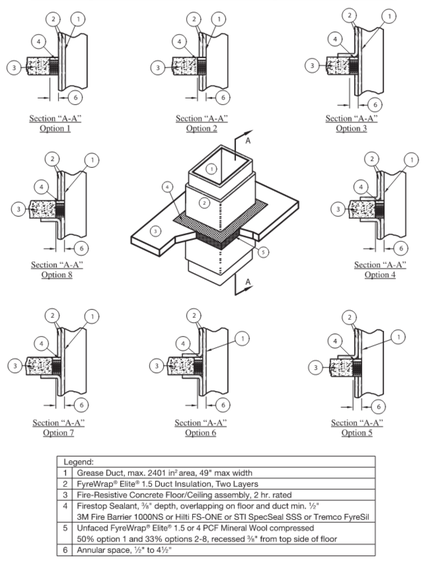
Figure 4. Firestop Installation

FyreWrap® Elite® 1.5 Duct Insulation Through Penetration Firestops Floor
Intertek Design No. UNI/BI 120-02 & 120-14, F-Rating = 2 Hrs. T-Rating = 2 Hrs.

FP-691



Legend:	
1	Grease Duct, max. 2401 in² area, 49" max width
2	FyreWrap® Elite® 1.5 Duct Insulation, Two Layers
3	Fire-Resistive Concrete Floor/Ceiling assembly, 2 hr. rated
4	Firestop Sealant, ⅛" depth, overlapping on floor and duct min. ½" 3M Fire Barrier 1000NS or Hilti FS-ONE or STI SpecSeal SSS or Tremco FyreSil
5	Unfaced FyreWrap® Elite® 1.5 or 4 PCF Mineral Wool compressed 50% option 1 and 33% options 2-8, recessed ⅛" from top side of floor
6	Annular space, ½" to 4½"

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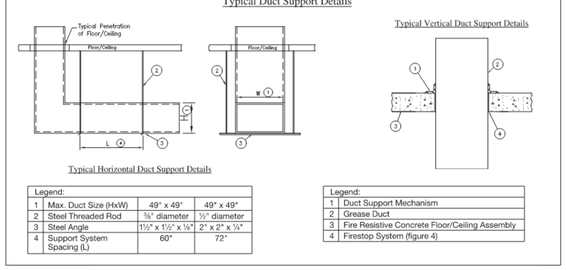
Figure 5. Support System

FyreWrap® Elite® 1.5 Duct Insulation
Typical Duct Support Details

FP-625R1



Legend:			
1	Max. Duct Size (HxW)	49" x 49"	49" x 49"
2	Steel Threaded Rod	⅜" diameter	½" diameter
3	Steel Angle	1½" x 1½" x ⅛"	2" x 2" x ¼"
4	Support System Spacing (L)	60"	72"

Legend:	
1	Duct Support Mechanism
2	Grease Duct
3	Fire Resistive Concrete Floor/Ceiling Assembly
4	Firestop System (figure 4)

For additional information about product performance or to identify the recommended product for your fire protection application, please contact Unifrax at 716-768-6500 and ask for Fire Protection Application Engineering.

Refer to the product Safety Data Sheet (SDS) for recommended work practices and other product safety information.

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FIRE WRAP DETAIL

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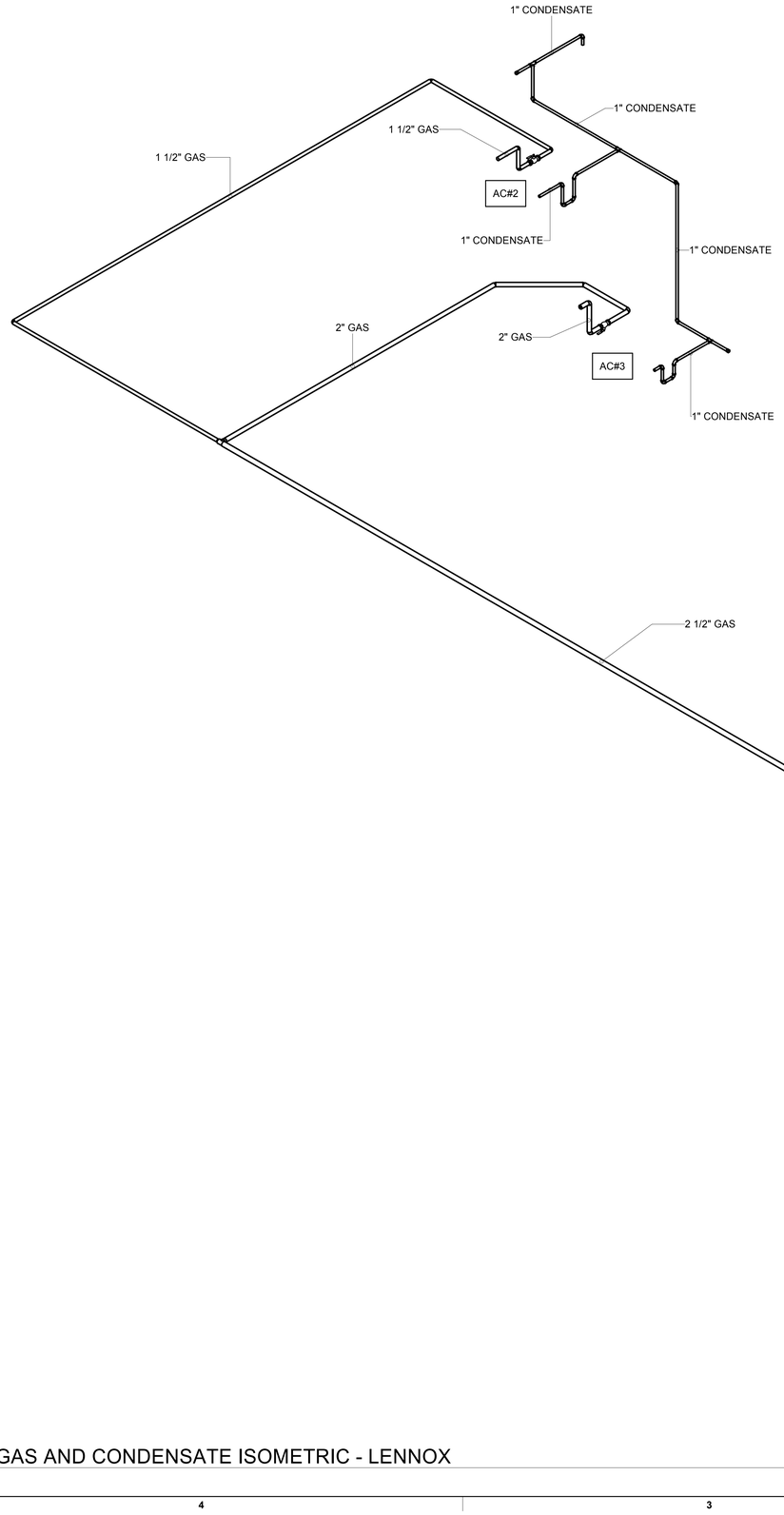

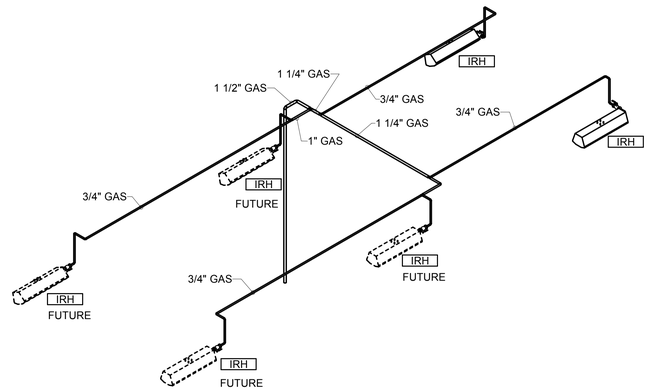

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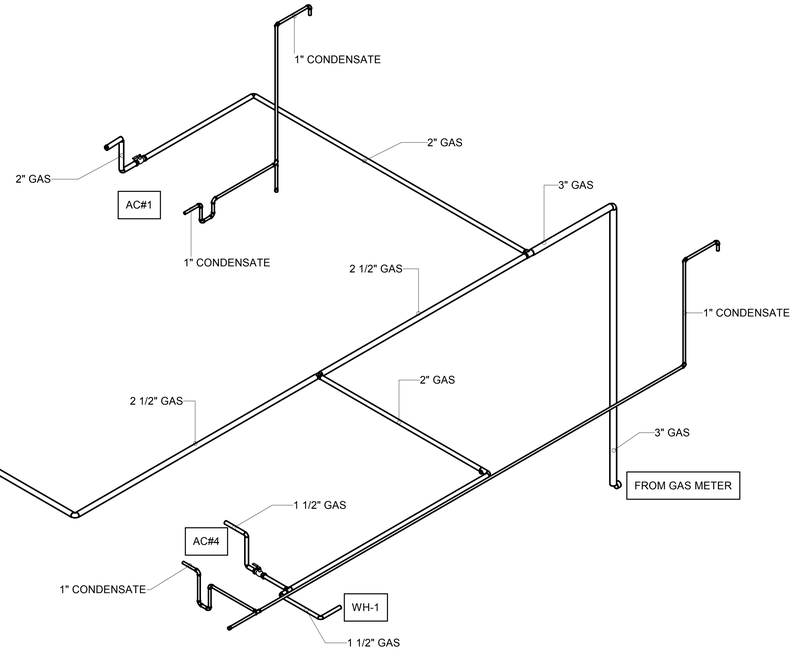

3 GAS AND CONDENSATE ISOMETRIC - LENNOX

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BUILDING TYPE / SIZE: P14 LS XPS
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SHEET
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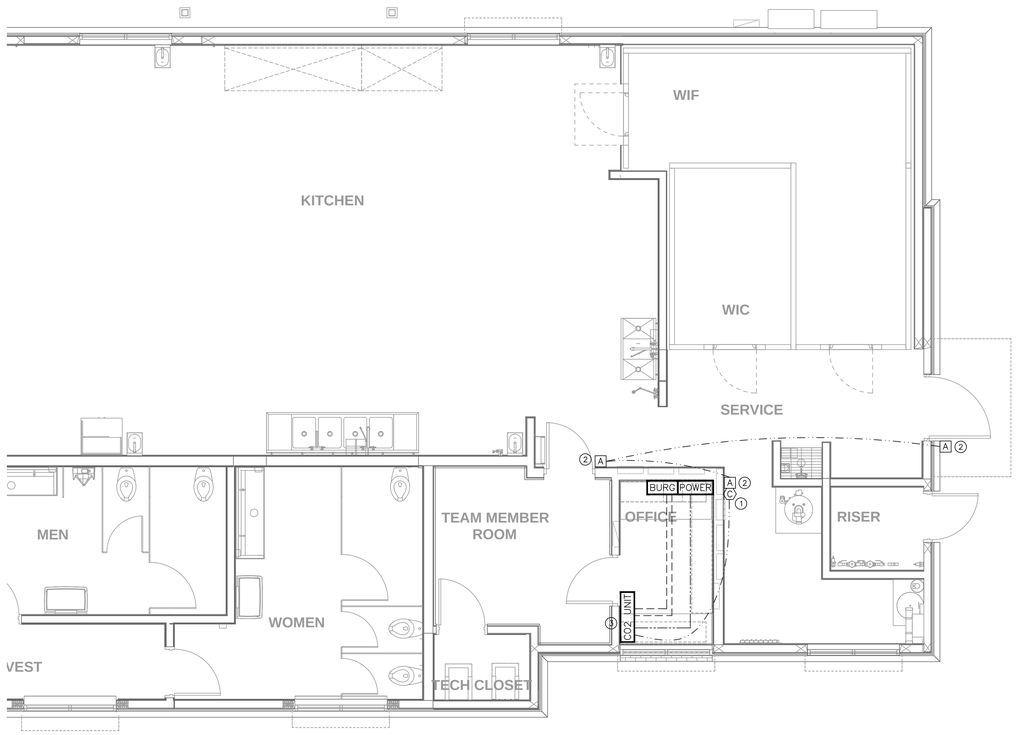
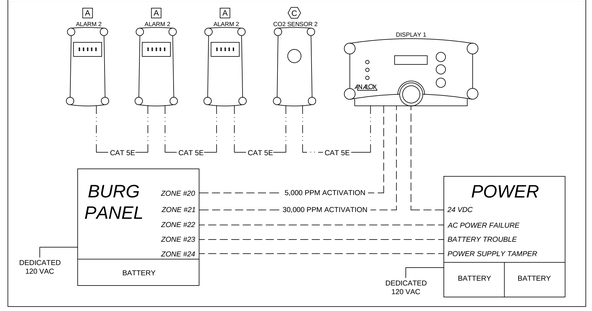


SCALE: 1/4" = 1'-0"
0 4 8 12 16

CO2 SYSTEM EQUIPMENT LAYOUT

NFPA 704 WARNING PLACARD SHALL BE PLACED ON THE EXTERIOR FACE OF THE ACCESS DOOR AND ON THE FACE OF THE CO2 TANK.

RISER DIAGRAM



WIRE SCHEDULE

LINE TYPE	TYPE	CIRCUIT DESCRIPTION
	CAT5 E	CO2 CIRCUIT
	2C/#16 - CL2	24VDC POWER
	2C/#16 -FPL	INDICATING CIRCUIT

EXAMPLE : 2C/#16 - CL2
LINE TYPE SHOWN ON THE FLOOR PLAN TO IDENTIFY CABLE
2C = TWO CONDUCTOR SOLID CABLE
#16 = GAUGE OF WIRE (#16 AWG)
CL2 = SECURITY CABLE

SYMBOL LEGEND

SYMBOL	DESCRIPTION
CO2 UNIT	CO2 CONTROL DISPLAY
POWER	POWER PANEL
BURG	BURGLAR PANEL
C	CO2 DETECTOR
A	ANNUNCIATOR/ALARM UNIT

NOTE:

EQUIPMENT LIST

TYPE	MANUFACTURER	PART NUMBER	DESCRIPTION	QTY
POWER SUPPLY	ALTRONIX	AL300ULX	24VDC POWER PANEL	1
BATTERY	ENERSYS	NP7-12	12 VOLT 7 AMP HOUR STORAGE BATTERY	2
CO2	ANALOX	AX-60+	CO2 CONTROL UNIT	1
DETECTOR	ANALOX	AX-60+ ANNUNCIATOR	ANNUNCIATOR	3
CO2 DETECTOR	ANALOX	AX-60+ CO2 SENSOR	CO2 SENSOR	1
SIGNAGE	ANALOX	AX-60+ SIGNAGE PACK	ALERT SIGNAGE	1

DIRECTION FOR LOCATING DETECTION AND ALARMING DEVICES

1. INTERIOR BULK CO2 TANK OR CYLINDER (IF APPLICABLE)
   - 1.1. DETECTOR MOUNTED AT 12" A.F.F. AND WITHIN 15FT OF THE TANK.
   - 1.2. IF TANK AND BIB RACK ARE IN THE SAME AREA AND WITHIN 30FT OF ONE ANOTHER, ONE DETECTOR MAY BE USED TO SERVE BOTH.
   - 1.3. THE DETECTOR MUST NOT BE LOCATED ANY CLOSER THAN 5FT FROM THE BIB RACK.
   - 1.4. ANNUNCIATOR AT TANK MOUNTED AT 60" A.F.F.
   - 1.5. ANNUNCIATOR AT EACH DOOR LEADING INTO AREA WHERE TANK IS STORED, MOUNTED AT 60" A.F.F.
   - 1.6. IF TANK AND BIB RACK IN SAME AREA, ONE ANNUNCIATOR MAY BE USED IF VISIBLE TO BOTH TANK/BIB (THIS DOES NOT SUPERCEDE OR CHANGE ITEM 1.4).
   - 1.7. SIGNAGE FOR ANNUNCIATOR MOUNTED AT 65" A.F.F. TO CENTER.
2. CARBONATORS AND SYRUP PUMPS AT BIB RACK
   - 2.1. DETECTOR MOUNTED AT 12" A.F.F. AND WITHIN 15FT OF CARBONATORS/PUMPS.
   - 2.2. THE DETECTOR MUST NOT BE LOCATED ANY CLOSER THAN 5FT FROM THE BIB RACK.
   - 2.3. IF TANK AND BIB RACK ARE IN THE SAME AREA AND WITHIN 30FT OF ONE ANOTHER, ONE DETECTOR MAY BE USED TO SERVE BOTH.
   - 2.4. ANNUNCIATOR AT BIB RACK MOUNTED AT 60" A.F.F.
   - 2.5. IF TANK AND BIB RACK IN SAME AREA, ONE ANNUNCIATOR MAY BE USED IF VISIBLE TO BOTH TANK/BIB.
   - 2.6. SIGNAGE FOR ANNUNCIATOR MOUNTED AT 65" A.F.F. TO CENTER.
3. CONTROL UNIT
   - 3.1. CONTROL UNIT MOUNTED IN APPROVED LOCATION AT 60" A.F.F. TO CENTER.

CO2 CONCENTRATION OF 5,000 PPM SHALL ACTIVATE THE LOW-LEVEL ALARM.
CO2 CONCENTRATION OF 30,000 PPM SHALL ACTIVATE THE HIGH-LEVEL ALARM.

SEQUENCE OF OPERATIONS

INPUTS AND ACTIONS

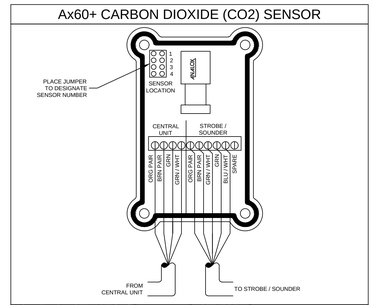
CO2 SYSTEM SIGNAL SENT TO CENTRAL STATION MONITORING FOR OWNER NOTIFICATION ONLY. NO EMERGENCY UNITS WILL BE DISPATCH.

POWER SUPPLY TAMPER SWITCH
POWER SUPPLY BATTERY FAIL
POWER SUPPLY AC FAIL
CO2 LEVEL AT 30,000 PPM
CO2 LEVEL AT 5,000 PPM

OUTPUTS AND CONTROLS

OPERATE ALL CO2 ANNUNCIATOR SOUNDERS AND STROBES	●				
OPERATE ALL CO2 ANNUNCIATOR STROBES		●			
SEND CO2 ALARM SIGNAL TO CENTRAL STATION MONITORING VIA BURG PANEL	●				
SEND CO2 SUPV SIGNAL TO CENTRAL STATION MONITORING VIA BURG PANEL		●			
SEND TROUBLE SIGNAL TO CENTRAL STATION MONITORING VIA BURG PANEL			●	●	●

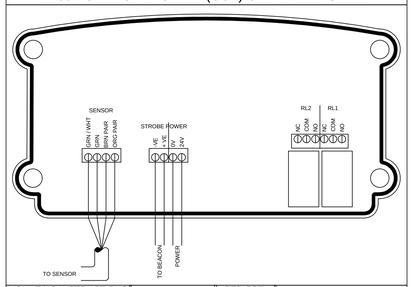
Ax60+ CARBON DIOXIDE (CO2) SENSOR



MOUNTING INSTRUCTIONS
DRILL HOLES IN WALL, INSTALL WALL PLUGS/DOWELS THEN FIT THE CO2 SENSOR, 12" ABOVE FINISHED FLOOR.

USED FOR:
AX60 CARBON DIOXIDE (CO2) SENSOR

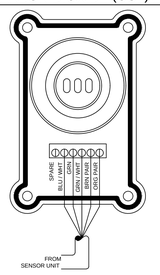
Ax60+ CARBON DIOXIDE (CO2) CENTRAL DISPLAY



MOUNTING INSTRUCTIONS
DRILL HOLES IN WALL, INSTALL WALL PLUGS/DOWELS THEN FIT THE CO2 DISPLAY, 60" ABOVE FINISHED FLOOR.

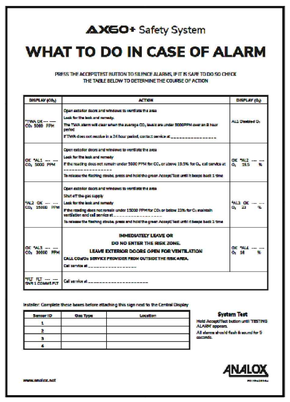
USED FOR:
ANALOX AX60 CENTRAL DISPLAY

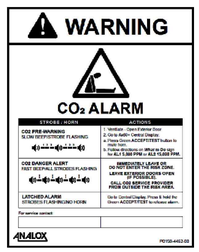
Ax60+ CARBON DIOXIDE (CO2) ALARM



MOUNTING INSTRUCTIONS
DRILL HOLES IN WALL, INSTALL WALL PLUGS/DOWELS THEN FIT THE CO2 ALARM, 60" ABOVE FINISHED FLOOR.

USED FOR:
AX60 CARBON DIOXIDE (CO2) ALARM





STAR ASSET SECURITY
12667 SILICON DRIVE
SAN ANTONIO, TEXAS 78249
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TX ACR-1703885 TX B17053

GIBBENS DRAKE SCOTT, INC
920 E. 63rd STREET, SUITE 100
RAYTOWN, MISSOURI 64133
ENGINEERING
MONTANA
TODD H ATKINS
No. 91727PE
LICENSED PROFESSIONAL ENGINEER
10-26-2025

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CHICK-FIL-A CUSTER & WASHINGTON #05484

2770 N WASHINGTON ST
HELENA, MONTANA 59602

DATE: 10/16/25

PRINTED FOR:
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1:	12/02/24	
2:	08/11/25	
3:	10/16/25	

JOB NO: 21108-1
PROJ MNGR: MS
DRAWN BY: WM
DWG TITLE: CO2 LAYOUT

PERMIT COPY
THIS SET OF APPROVED PLANS TO BE ON JOB SITE AT ALL TIMES

DWG NO: CO1.01

SHEET NO: 1 OF 1

PERMIT COPY
THIS SET OF APPROVED PLANS TO BE ON JOB SITE AT ALL TIMES

Plotted: October 24, 2025 @ 11:59 am By: will1

PROJECT NOTES

PROJECT GENERAL INFORMATION

AREA:
APPROX. SQUARE FOOTAGE: 5,112 SQ. FT.

SYSTEM TYPE:
ADDRESSABLE SPRINKLER MONITORING SYSTEM.

DESCRIPTION:
ADDRESSABLE FIRE LITE ES-50X SPRINKLER MONITORING SYSTEM. UTILIZING A POWER LIMITED, FULLY SUPERVISED, MANUAL AND AUTOMATIC INITIATION/DETECTION SYSTEM. THIS SYSTEM SHALL MONITOR THE BUILDING FIRE SPRINKLER SYSTEM AND SEND AUTOMATIC SIGNALS TO A UL LISTED / FM APPROVED "CENTRAL STATION" MONITORING SYSTEM.

DE SIGN STANDARDS
1. MANUFACTURERS' GUIDELINES
2. NFPA 72 (2019)
3. NFPA 70 (2020)
4. IFC (2021) AS AMENDED BY THE AHJ

SCOPE OF WORK:
1. INSTALL ONE (1) NEW SPRINKLER MONITORING SYSTEM TO MONITOR THE SPRINKLER SYSTEM FOR THE CHICK-FIL-A STORE # 5484.
2. THE SPRINKLER MONITORING SYSTEM SHALL SEND AUTOMATIC SIGNALS TO A UL LISTED / FM APPROVED "CENTRAL STATION" MONITORING SYSTEM. REFER TO THE RISER DIAGRAM AND THE SEQUENCE OF OPERATIONS FOR THE SPECIFIC SIGNALS TO BE TRANSMITTED.
3. THE SPRINKLER MONITORING SYSTEM SHALL PROVIDE BATTERY BACKUP AS A SECONDARY POWER SOURCE. REFER TO THE BATTERY CALCULATIONS LOCATED ON THESE DRAWINGS FOR THE STANDBY TIME AND SIZE OF BATTERIES REQUIRED.
4. THIS PROJECT'S SPRINKLER MONITORING SYSTEM SHALL BE DESIGNED UTILIZING THE STANDARDS LOCATED IN THE "DESIGN STANDARDS" SECTION ON THESE DRAWINGS.
5. INSTALLATION CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE FIRE MARSHAL TO OBTAIN A PERMIT.

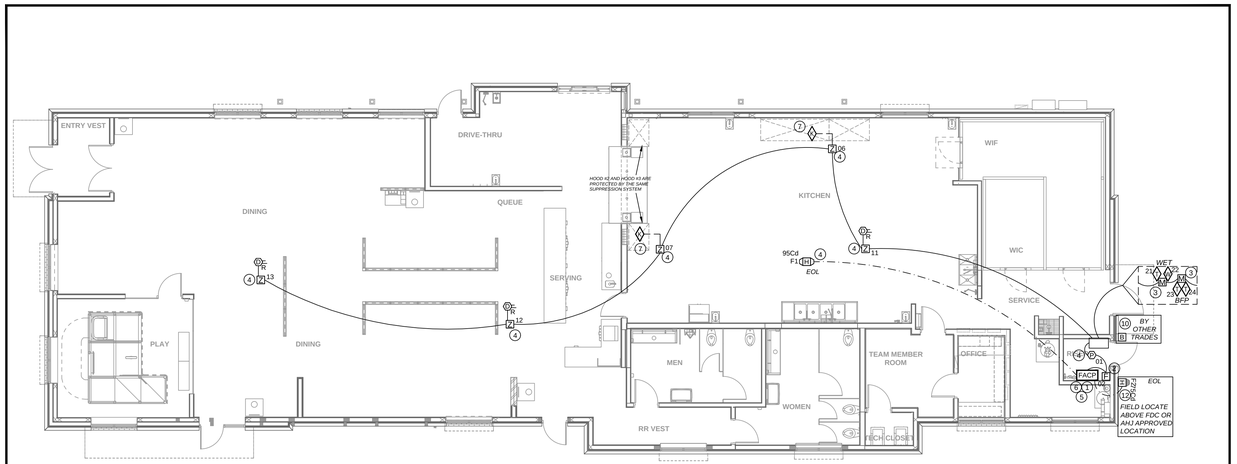
GENERAL NOTES:
1. THIS PROJECT'S SPRINKLER MONITORING SYSTEM SHALL BE INSTALLED IN A "WORKMAN LIKE MANNER" UTILIZING "GOOD COMMERCIAL PRACTICE".
2. TO ENSURE THE PROPER OPERATION OF THE SPRINKLER MONITORING SYSTEM, A COMPLETE FUNCTIONAL TEST SHALL BE PERFORMED PRIOR TO THE FINAL INSPECTION BY THE AUTHORITY HAVING JURISDICTION (A.H.J.).
3. THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL TESTING WITH THE LOCAL A.H.J., GENERAL CONTRACTOR AND ANY ASSOCIATED CONTRACTORS.
4. UPON COMPLETION OF THE PROJECT, THE INSTALLING CONTRACTOR SHALL PROVIDE INSPECTION REPORTS, OPERATIONS MANUALS, AND SHOP DRAWINGS TO THE OWNER REPRESENTATIVE.
5. ALL OF THE SPRINKLER MONITORING SYSTEM PROGRAMMING THAT IS REQUIRED SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR.
6. ALL OF THE SPRINKLER MONITORING CONTROL PANEL TERMINATIONS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR.
7. THE SPRINKLER MONITORING INSTALLATION SHALL BE IN ACCORDANCE WITH THESE PLANS. CHANGES IN DEVICES, LOCATIONS, AND/OR CIRCUITS MUST BE APPROVED BY THE ENGINEER OF RECORD (SEE ENGINEER INFORMATION). IF THE CHANGES ARE SUFFICIENT TO REQUIRE RE-ENGINEERING A FEE MAY BE CHARGED TO THE CONTRACTOR REQUESTING THE CHANGES.

MOUNTING INSTRUCTIONS:
1. ALL DEVICES SHALL BE INSTALLED UTILIZING THE STANDARDS LOCATED IN THE "DESIGN STANDARDS" ON THESE DRAWINGS.
2. SMOKE DETECTORS SHALL BE MOUNTED AS FOLLOWS:
   2.1. CENTER OF CEILING TILES.
   2.2. NO CLOSER THAN THREE (3) FEET FROM AN AIR MOVING REGISTER
   2.3. NO LESS THAN 4" FROM A SIDE WALL.
3. DUCT SMOKE DETECTORS SHALL BE INSTALLED AND CERTIFIED BY OTHER TRADES. THE DUCT SMOKE DETECTORS SHALL BE MONITORED BY THE FACP.
4. MANUAL PULL STATIONS SHALL BE MOUNTED AS FOLLOWS:
   4.1. 48" TO THE TOP OF THE DEVICE ABOVE THE FINISHED FLOOR.
   4.2. WITHIN 5' OF THE EXIT DOOR WHERE POSSIBLE.
5. HORN/STROBE AND STROBE UNITS SHALL BE MOUNTED AS FOLLOWS:
   5.1. SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" ABOVE THE FINISHED FLOOR.
   5.2. WHEN CEILING HEIGHTS ARE LESS THAN 80", MOUNT THE DEVICE 6" BELOW THE CEILING.
   5.3. ALL CEILING MOUNT DEVICES SHALL BE IN THE CENTER OF THE TILE.
   5.4. SET ALL HORN STROBES TO HIGH DBA SETTING.
   5.5. SET CANDELA RATING AS NOTED ON PLANS.

ELECTRICAL INSTALLATION NOTES:
1. THE SPRINKLER MONITORING SYSTEM WIRING SHALL BE INSTALLED UTILIZING THE STANDARDS LOCATED IN THE "DESIGN STANDARDS" ON THESE DRAWINGS.
2. REFER TO THE "WIRE CHART" LOCATED ON THESE DRAWINGS FOR QUANTITY, TYPE & SIZE OF THE WIRE.
3. ALL SIGNAL LINE CIRCUITS (I.E. SLC DATA) SHALL BE CLASS "B".
4. ALL INITIATION DEVICES CIRCUITS (IDC) SHALL BE CLASS "B".
5. ALL NOTIFICATION APPLIANCE CIRCUITS (NAC) SHALL BE CLASS "B".
6. A LICENSED ELECTRICAL CONTRACTOR SHALL PROVIDE THE INSTALLATION, LABOR, CONDUIT, AND WIRING FOR ALL 120VAC POWER CIRCUITS CONNECTED TO THE SPRINKLER MONITORING SYSTEM.
7. A QUALIFIED TELEPHONE TECHNICIAN SHALL PERFORM THE INSTALLATION OF ALL PHONE LINES NECESSARY TO SEND SIGNALS TO THE CENTRAL STATION.
8. ALL CABLE RUNS SHALL RUN PARALLEL TO THE BUILDING LINES, DIAGONAL RUNS ARE NOT ACCEPTABLE.
9. ALL CABLE SHALL BE SECURELY FASTENED TO THE BUILDING STRUCTURE, CONNECTION TO CEILING GRID, CONDUIT, SPRINKLER PIPE, ETC, SHALL NOT BE PERMITTED. ALL CABLE SHALL BE SUPPORTED WITH FIRE RATED CABLE TIES AT 4'-0" ON CENTER. ALL SUPPORT SYSTEMS SHALL BE INSTALLED PER THE DESIGN STANDARDS ON THESE DRAWINGS.
10. ALL JUNCTION BOXES SHALL BE SECURELY MOUNTED. JUNCTION BOXES WITHIN THE CEILING GRID SHALL BE SUPPORTED UTILIZING "T-BAR" TYPE HANGERS. ALL CABLE WITHIN THE WALL SYSTEM SHALL BE IN CONDUIT OR FLEXIBLE CONDUIT PER THE DESIGN STANDARDS ON THESE DRAWINGS.
11. ALL CABLE BELOW CEILING LEVEL SHALL BE INSTALLED WITHIN METALLIC SURFACE MOUNTED RACEWAY (I.E. WIREMOLD, WALLTRAK, PANDUIT, ETC.) OR BE CONTAINED WITHIN WALL SYSTEM.

COORDINATION WITH OTHER TRADES:
THE LIST WITHIN THIS SECTION ARE NOT PART OF THE SCOPE OF WORK OF THE FIRE ALARM CONTRACTOR, BUT ARE VITAL FOR THE COMPLETION OF THE SYSTEM. THIS LIST SHALL BE PROVIDED BY OTHER TRADES AND COORDINATED BY THE GENERAL CONTRACTOR.
1. ALL 120VAC DEDICATED POWER CIRCUIT, CONDUIT, AND WIRING.
2. ALL AIR HANDLING UNIT SHUTDOWN CONDUIT AND WIRING.
3. ALL DUCT SMOKE DETECTORS, DETECTOR HOUSING, DETECTOR POWER, RELATED INSTALLATION LABOR, CONDUIT, AND WIRING.
4. DUCT SMOKE MANOMETER TESTING AND DOCUMENTATION.
5. DUCT SMOKE DETECTORS AND REMOTE LED/TEST STATIONS.
6. DAMPER CONTROLS INSTALLATION, CONDUIT, AND WIRING.

SPECIFIC NOTES: (X)
1. INSTALL TYPE 1 HOFFMAN ENCLOSURE 6X6X3 (A5GX6X6X3NK) OR EQUAL AT 52" AFF WITHIN WALL. INSTALL 2" EMT CONDUIT EXTENDED TO 6' ABOVE ACCESSIBLE CEILING ("STUB UP") UTILIZE SUITABLE BOX CONNECTOR OR EQUIVALENT AT THE END OF THE STUB UP TO PREVENT WIRE DAMAGE.
2. INSTALL A SINGLE-GANG DEEP JUNCTION BOX AT 48" AFF WITHIN WALL. INSTALL 1" EMT CONDUIT EXTENDED TO 6' ABOVE ACCESSIBLE CEILING ("STUB UP") UTILIZE SUITABLE BOX CONNECTOR OR EQUIVALENT AT THE END OF THE STUB UP TO PREVENT WIRE DAMAGE.
3. INSTALL A 4 SQUARE DEEP JUNCTION BOX IN AN ACCESSIBLE AREA HALFWAY BETWEEN WATERFLOW SWITCH AND TAMPER SWITCH. INSTALL 1" EMT CONDUIT EXTENDED TO 6" ABOVE ACCESSIBLE CEILING ("STUB UP") UTILIZE SUITABLE BOX CONNECTOR OR EQUIVALENT AT THE END OF THE STUB UP TO PREVENT WIRE DAMAGE. FOR RISERS LOCATED ON THE EXTERIOR OF THE BUILDING MOUNT 4 SQUARE DEEP JUNCTION BOX 6" ABOVE THE ACCESSIBLE CEILING IMMEDIATELY ON THE INTERIOR OF THE BUILDING AND LOCATE ADDRESSABLE MODULE IN THIS JUNCTION BOX.
4. INSTALL A 4 SQUARE DEEP JUNCTION BOX IN THE CENTER OF THE CEILING TILE. RIGIDLY MOUNT JUNCTION BOX WITH T-BAR FASTENER.
5. 120VAC 15A DEDICATED CIRCUIT REQUIRED TO BE HARD-WIRED TO THE CONTROL PANEL BY THE ELECTRICAL CONTRACTOR.
6. CELLULAR/RADIO COMMUNICATION TO BE SOLE PATHWAY PER NFPA GUIDELINES AND APPROVAL BY THE AUTHORITY HAVING JURISDICTION
7. AN EXTRA ANSUL MICRO-SWITCH IS REQUIRED.
8. NOT USED
9. NOT USED
10. WITH IN THE WALL STRUCTURE INSTALL A 4 SQUARE DEEP JUNCTION BOX WITH SINGLE GANG MUD RING IN AN ACCESSIBLE AREA ON AN INTERIOR WALL AT 80" AFF WITH 1/2" SLEEVE TO EXTERIOR FOR WEATHER PROOF HORN STROBE. INSTALL 1" EMT CONDUIT EXTENDED TO 6" ABOVE ACCESSIBLE CEILING ("STUB UP") UTILIZE SUITABLE BOX CONNECTOR OR EQUIVALENT AT THE END OF THE STUB UP TO PREVENT WIRE DAMAGE.
11. NOT USED
12. INSTALL WEATHER PROOF HORN STROBE DEVICE 10 FEET ABOVE FINISHED GRADE OVER THE FDC TO IDENTIFY LOCATION OF THE FDC .



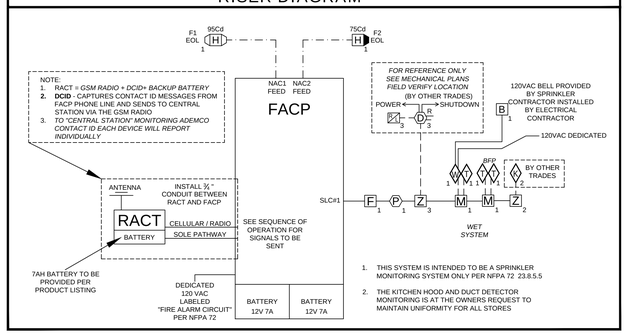
SCALE: 1/8" = 1'-0" (0, 8, 16, 24, 32)

SPRINKLER MONITORING EQUIPMENT LAYOUT

EQUIPMENT LIST

TYPE	MANUFACTURER	PART NUMBER	DESCRIPTION	QTY
FACP	FIRE LITE	ES-50X	ADDRESSABLE FIRE ALARM CONTROL PANEL	1
BATTERY	ENERSYS	NP7-12	12 VOLT 7 AMP HOUR STORAGE BATTERY	2
COMM	STARLINK	SLE-MAXVI-CFBPS	INTERNET AND DIGITAL CELLULAR COMMUNICATOR	1
PHOTO	FIRE LITE	SD365	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR	1
INPUT	FIRE LITE	MMF-300	ADDRESSABLE MONITOR MODULE	5
DUAL INPUT	FIRE LITE	MDF-300	ADDRESSABLE DUAL MONITOR MODULE	2
PULL	FIRE LITE	BG-12LX	ADDRESSABLE MANUAL PULL STATION	1
CHS	SYSTEM SENSOR	PC2RL	SELECTABLE CANDELA CEILING MOUNT HORN/STROBE	1
WPHS	SYSTEM SENSOR	P2RK	SELECTABLE CANDELA WEATHERPROOF HORN/STROBE	1

RISER DIAGRAM



SEQUENCE OF OPERATIONS

INPUTS AND ACTIONS: SMOKE DETECTOR IN ALARM; SMOKE DETECTOR TROUBLE; MANUAL PULL STATION ACTIVATED; SUPERVISORY SIGNAL FROM SPRINKLER SYSTEM; WATERFLOW ALARM SIGNAL FROM SPRINKLER SYSTEM; LOSS OF COMMUNICATION WITH CENTRAL STATION; LOSS OF AC POWER; LOW BATTERY; ANY TROUBLE CONDITION

OUTPUTS AND CONTROLS

OPERATE ALL AREA EVACUATION SIGNALS (TEMPORAL CODE 3)	●		●		●							●
SOUND LOCAL PIEZO AT FACP	●	●	●	●	●	●	●	●	●	●	●	●
INDICATE DEVICE/ZONE AT FACP	●	●	●	●	●							●
SEND GENERAL ALARM SIGNAL TO CENTRAL STATION MONITORING	●					●						●
SEND TROUBLE SIGNAL TO CENTRAL STATION MONITORING							●	●	●	●	●	●
SEND SUPERVISORY SIGNAL TO CENTRAL STATION MONITORING		●		●								
SEND WATERFLOW ALARM SIGNAL TO CENTRAL STATION MONITORING			●									
ILLUMINATE LED ON DETECTOR/ MODULE	●	●	●	●	●							●
ILLUMINATE LED ON REMOTE INDICATING DEVICE		●										
SHUTDOWN AIR HANDLER		●										
TURN ON SPRINKLER BELL			●									

CONDUCTOR PROPERTIES CHART

FROM NFPA 70

SIZE AWG/ kcmil	SIZE AWG/ kcmil	CONDUCTORS: STRANDING QUANTITY	STRANDING DIA. IN.	OVERALL DIA. IN.	OVERALL AREA IN.²	DC RESISTANCE AT 75°C (167°F): COPPER uncoated ohms/1000 ft	COPPER coated ohms/1000 ft	ALUMINUM ohms/1000 ft
18	1620	1	-	0.040	0.001	7.77	8.08	12.8
18	1620	7	0.015	0.046	0.002	7.95	8.45	13.1
16	2580	1	-	0.051	0.002	4.89	5.08	8.05
16	2580	7	0.019	0.058	0.003	4.99	5.29	8.21
14	4110	1		0.064	0.003	3.07	3.19	5.06
14	4110	7	0.024	0.073	0.004	3.14	3.26	5.17
12	6530	1	-	0.081	0.005	1.93	2.01	3.18
12	6530	7	0.030	0.092	0.006	1.98	2.05	3.25

WIRE SCHEDULE

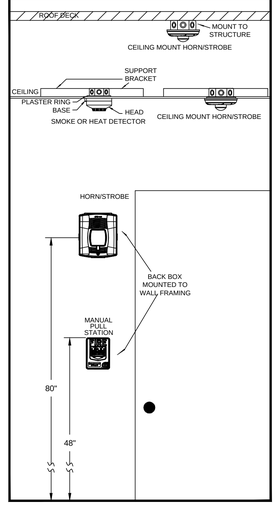
LINE TYPE	TYPE	CIRCUIT DESCRIPTION
———	2C/#14 - FPL	NOTIFICATION APPLIANCE CIRCUIT
———	2C/#16 - FPL	SLC CIRCUIT (DATA) TWISTED PAIR
— — —	2C/#16 - FPL	INITIATION CIRCUIT

EXAMPLE : 2C/#14 - FPL - SH
——LINE TYPE SHOWN ON THE FLOOR PLAN TO IDENTIFY CABLE
2C = TWO CONDUCTOR SOLID CABLE
#14 = GAUGE OF WIRE (#14 AWG)
FPL = FIRE ALARM POWER LIMITED CABLE
SH = SHIELDED CABLE

SYMBOL LEGEND

SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL PANEL
RACT	INTERNET AND DIGITAL CELLULAR COMMUNICATOR
P XXX	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR (XXX = ADDRESS)
F XX	ADDRESSABLE MANUAL PULL STATION (XX=ADDRESS)(DUAL ACTION)
Z XXX	ADDRESSABLE MONITOR MODULE (XXX = ADDRESS)
M XXX	ADDRESSABLE DUAL MONITOR MODULE (XXX = ADDRESS)
H Cd Sir	FIRE ALARM CEILING MOUNT HORN/STROBE — Cd=CANDELA Sir=CIRCUIT # WEATHER PROOF FIRE ALARM HORN/STROBE — Cd=CANDELA Sir=CIRCUIT #
B	WEATHER PROOF SPRINKLER WATERFLOW BELL (BY OTHER TRADES)
	REMOTE LED (BY OTHER TRADES)
D R	DUCT SMOKE DETECTOR (R=RETURN) (BY OTHER TRADES)
	KITCHEN HOOD SYSTEM (BY OTHER TRADES)
	SPRINKLER WATERFLOW SWITCH (BY OTHER TRADES)
	SPRINKLER (DRY / WET) TAMPER SWITCH (BY OTHER TRADES)
NOTE 1	

DEVICE MOUNTING DETAIL



ES-50X Battery Calculations

Required Standby Hours: 24
Required Alarm Minutes: 5

Device	Qty	Standby Current (Amps)	Total Standby Current (Amps)	Alarm Current (Amps)	Total Alarm Current (Amps)
Main Circuit Board	1	0.1410	0.1410	0.2570	0.2570
IPOTS-COM Communicator		0.0400	0.0000	0.0410	0.0000
SLE-MAXVI-CFB-PS Cell Dialer	1	0.0850	0.0850	0.2000	0.2000
ANN-80 Annunciator		0.0150	0.0000	0.0400	0.0000
SD365 Smoke Detector	1	0.0002	0.0002	0.0045	0.0045
BG12-LX Pull Station	1	0.0004	0.0004	0.0050	0.0050
MMF-300 Input Module	5	0.0004	0.0019	0.0050	0.0250
MDF-300 Dual Input Module	2	0.0008	0.0015	0.0064	0.0128
CRF-300 Control Relay		0.0003	0.0000	0.0003	0.0000
CMF-300 Control Module		0.0004	0.0000	0.0004	0.0000
		Totals	0.23		0.50

Total Standby Current: 0.23
Standby Hours: 24
Standby Amp Hours Required: 5.519

Total Panel Component Alarm Current: 0.50
Total Notification Appliance Alarm Current: 0.268
Total Alarm Current: 0.77
Alarm Hours: 0.083333
Alarm Amp Hours Required: 0.064358
Standby Amp Hours Required: 5.5188
5.583158
Derating: x1.2
6.69979

Minimum battery size required: 6.7 Amp Hours

Provide 2ea. 7 Ah batteries

FIRE-LITE ALARMS by Honeywell

NAC CIRCUIT #1

Wire Guage: 14 — Pair Ohms/1000: 3.14

Part Number	Device	Device Current	Number of Devices	
SRLED	15cd Strobe	0.018		0.00
	30cd Strobe	0.022		0.00
	75cd Strobe	0.070		0.00
	110cd Strobe	0.085		0.00
P2RLED	15cd Horn/Strobe	0.035		0.00
	30cd Horn/Strobe	0.038		0.00
	75cd Horn/Strobe	0.087		0.00
	110cd Horn/Strobe	0.094		0.00
SCRLED	15cd Ceiling Strobe	0.018		0.00
	30cd Ceiling Strobe	0.022		0.00
	75cd Ceiling Strobe	0.070		0.00
	95cd Ceiling Strobe	0.075		0.00
PC2RLED	15cd Ceiling H/S	0.035		0.00
	30cd Ceiling H/S	0.038		0.00
	75cd Ceiling H/S	0.087		0.00
	95cd Ceiling H/S	0.092	1	0.09
			Total Current	0.09
1	Device Total		Total Wire Length	138
100	Circuit Length			
			End of Line Voltage	**20.36**

NAC CIRCUIT #2

Wire Guage: 14 — Pair Ohms/1000: 3.14

Part Number	Device	Device Current	Number of Devices	
SRLED	15cd Strobe	0.018		0.00
	30cd Strobe	0.022		0.00
	75cd Strobe	0.070		0.00
	110cd Strobe	0.085		0.00
P2RLED	15cd Horn/Strobe	0.035		0.00
	30cd Horn/Strobe	0.038		0.00
	75cd Horn/Strobe	0.087		0.00
	110cd Horn/Strobe	0.094		0.00
SCRLED	15cd Ceiling Strobe	0.018		0.00
	30cd Ceiling Strobe	0.022		0.00
	75cd Ceiling Strobe	0.070		0.00
	95cd Ceiling Strobe	0.075		0.00
PC2RLED	15cd Ceiling H/S	0.035		0.00
	30cd Ceiling H/S	0.038		0.00
	75cd Ceiling H/S	0.087		0.00
	95cd Ceiling H/S	0.092		0.00
P2RK	75cd WP Horn/Strobe	0.176	1	0.18
			Total Current	0.18
1	Device Total		Total Wire Length	38
20	Circuit Length			
			End of Line Voltage	**20.38**

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REVISION SCHEDULE

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1:		12/02/24
2:		08/11/25
3:		10/16/25

JOB NO: 21108-1
PROJ MNGR: MS
DRAWN BY: MS
DWG TITLE: FIRE ALARM LAYOUT

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DWG NO: F1.00
SHEET NO: 1 OF 1

Plotted: October 24, 2025 @ 12:03 pm By: will1

DIVISION 15 SPECIFICATIONS

PART I - PRODUCTS

1.01 GENERAL REQUIREMENTS

A. THE FOLLOWING SPECIFICATIONS ARE THE MINIMUM REQUIREMENT. WHERE FEDERAL, STATE OR LOCAL REQUIREMENTS DIFFER FROM THIS SPECIFICATION, THE MORE STRINGENT OF THE TWO SHALL BE FOLLOWED.

1.02 SCOPE

A. HOT AND COLD POTABLE WATER PIPING ABOVE SLAB SHALL BE TYPE 'L' HARD DRAWN COPPER OR FLOWGUARD GOLD CPVC AS MANUFACTURED BY NIBCO OR CHARLOTTE PIPE & FOUNDRY AND MEETING ASTM D-2846. FILTERED WATER PIPING SHALL BE FLOWGUARD GOLD CPVC. HOT AND COLD PIPING WITHIN WALLS BEHIND KITCHEN HOODS SHALL BE COPPER.

B. POTABLE WATER PIPING BELOW SLAB AND OUTSIDE BELOW GRADE SHALL BE TYPE "K" SOFT ANNEALED SEAMLESS. NO JOINTS SHALL BE ALLOWED BELOW SLAB. POTABLE WATER PIPING BELOW GRADE SHALL BE SLEEVED FOR ITS ENTIRE LENGTH WITH POLY SLEEVE AS MADE BY IPS WATER-TITE. ALL SLAB PENETRATIONS SHALL BE SLEEVED WITH POLY SLEEVE TO PROTECT PIPING FROM CORROSION BY CONCRETE.

C. COPPER PIPE FITTINGS SHALL BE JOINED USING 95-5 LEAD-FREE SOLDER MEETING ASTM B-32 OR BRAZED WITH SIL-FOS. SOLDER FLUXES SHALL MEET ASTM B-813 AND SHALL BE LEAD FREE. BRAZING FLUXES SHALL MEET AWS FB3-A OR FB3-C.

D. WATER PIPING DOWNSTREAM OF SOFT DRINK CARBONATORS SHALL BE PROVIDED AND INSTALLED BY LOCAL SOFT DRINK VENDOR.

E. CPVC FITTINGS FOR PIPING SHALL BE SOLVENT WELD TYPE MEETING ASTM D-2846 WITH CEMENTS MEETING ASTM F-493 AND PRIMER MEETING ASTM F-656. CURE TIME MUST COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. FOR CPVC PIPING INSTALLATION, WALL STUBS AT FIXTURES AND EQUIPMENT SHALL BE COPPER AND SHALL BE SERIES 630-C. CPVC-TO-COPPER STUB OUT ELBOWS BY SIOUX CHIEF.

F. OTHER ACCESSORY FITTINGS REQUIRED TO COMPLETE ANY WATER PIPING CONNECTION SHALL BE BRASS OR OF SIMILAR TYPE METAL AS THE FITTING TO WHICH IT IS CONNECTED. GALVANIZED FITTINGS ARE PROHIBITED. (EXCEPTION: GALVANIZED HEAT TRAP WATER HEATER NIPPLES IF INTERNALLY PROTECTED WITH TEFLON OR POLYMER CORROSION-RESISTANT COATING.)

G. ALL HVAC CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC DWV AS MANUFACTURED BY CHARLOTTE PIPE AND MEETING ASTM D-1784, D-1785 AND D-2665.

H. ALL SANITARY WASTE, VENT, STORM DRAINAGE PIPING AND FITTINGS INSIDE THE BUILDING, ABOVE AND BELOW GRADE, AND FOR ROOFTOP CONDENSATE, SHALL BE SOLID WALL SCHEDULE 40 PVC DWV AS MANUFACTURED BY CHARLOTTE PIPE AND MEETING ASTM D-2665 AND D-2949. FOAM CORE AND/OR CELLULAR CORE PVC PIPING SHALL NOT BE ALLOWED. PVC PIPING OUTSIDE THE BUILDING, BELOW GRADE, SHALL BE TYPE SDR-35 MEETING ASTM D-3034, U.N.O.

I. DWV PIPE AND FITTINGS WITHIN WALLS BEHIND KITCHEN HOODS SHALL BE SERVICE WEIGHT HUBLESS CAST IRON WITH SLEEVE, SHIELD, AND DRAWBAND JOINTS MEETING ASTM A-888 AND ASTM C-564.

J. PVC-DWV FITTINGS FOR PIPING SHALL BE SOLVENT WELD TYPE INSIDE AND UNDERSLAB MEETING ASTM D-2665, D-3311 AND F-186. CEMENTS SHALL MEET ASTM D-2564 AND PRIMER MEETING ASTM F-656. CURE TIME MUST COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. EXTERIOR PIPING JOINTS SHALL BE NEOPRENE PUSH-ON TYPE.

K. PROVIDE 1" THICK PIPE INSULATION FOR ALL ABOVE SLAB HOT AND TEMPERED WATER PIPING. PROVIDE 1/2" THICK INSULATION FOR ALL ABOVE SLAB COLD WATER, FILTERED WATER, CONDENSATE PIPING, AND HORIZONTAL RAIN WATER CONDUCTORS INSIDE THE BUILDING. PIPING INSULATION SHALL BE KNAUF 1000F 25/50 FIBERGLASS PIPE COVERING, WHITE KRAFT PAPER VAPOR BARRIER (.02 PERMS) BONDED TO ALUMINUM FOIL AND REINFORCED WITH GLASS FIBERS. MAXIMUM THERMAL CONDUCTIVITY OF 0.23 AT 75F. LONGITUDINAL LAP SHALL BE SELF SEALING. INSULATION FOR WALK-IN COOLER/FREEZER CONDENSATE PIPING SHALL BE ARMACELL A/P ARMAFLEX WITH MINIMUM 3/4" WALL THICKNESS.

L. PIPE INSULATION AND COVERINGS SHALL HAVE A RATING OF NOT GREATER THAN 25 FLAME SPREAD, NO HIGHER THAN 50 SMOKE DEVELOPED, AND NO MORE THAN 50 FUEL CONTRIBUTED. THE ONLY EXCEPTION SHALL BE ARMAFLEX AP, WHEN SPECIFIED, WHICH SHALL NOT EXCEED 100 SMOKE DEVELOPED.

M. A PVC 25/50 PRE-FORMED COVER SHALL BE PROVIDED AT ALL INSULATED PIPING FITTINGS EQUAL TO PROTO PVC CORP LOSMOKE, 800-875-7768.

N. EXPOSED SUPPORTS AND ATTACHMENTS SHALL BE STAINLESS STEEL, CHROME OR CHROME PLATED. GALVANIZED ATTACHMENTS WILL NOT BE ACCEPTED.

O. USE MATERIALS SPECIFIED ON THESE PLANS. SUBSTITUTIONS ARE ALLOWED ONLY IF SPECIFIED MATERIALS ARE UNAVAILABLE. PRODUCT SUBSTITUTIONS WILL NOT BE ACCEPTED WITHOUT PRIOR APPROVAL. ALL WATER PIPING, FITTINGS, FIXTURES AND ACCESSORIES SHALL BE CERTIFIED LEAD FREE AS DEFINED IN, AND PER THE INTENT OF, THE "REDUCTION IN LEAD IN DRINKING WATER ACT".

PART II - EXECUTION

2.01 TRENCHING

A. EXCAVATION, BACKFILLING, AND TRENCH WORK SHALL BE DONE IN ACCORDANCE WITH LATEST O.S.H.A. AND APPLICABLE SAFETY STANDARDS.

B. PROVIDE NECESSARY SHORING AND CLEANING TO KEEP TRENCHES IN GOOD WORKING CONDITION, INCLUDING PUMPING OUT WATER.

C. IN MOSTLY ROCK MATERIAL, TRENCHES SHALL BE EXCAVATED TO 6" BELOW THE ELEVATION OF THE BOTTOM OF THE PIPES. AFTER EXCAVATION, TRENCH SHALL THEN BE FILLED TO THE PROPER ELEVATION WITH CRUSHED LIMESTONE. GRAVEL SHALL BE REMOVED FROM UNDER PIPE BELLS SO THE PIPE RESTS FIRMLY ON THE TRENCH BOTTOM.

D. IN MOSTLY EARTH OR SAND MATERIAL, TRENCHES SHALL BE EXCAVATED TO 6" BELOW THE ELEVATION OF THE BOTTOM OF THE PIPES. AFTER EXCAVATION, TRENCH SHALL THEN BE FILLED TO THE PROPER ELEVATION WITH FINE SAND OR GRAVEL. TRENCH BOTTOM SHALL BE REMOVED AT PIPE BELLS SO THE PIPE RESTS FIRMLY ON THE TRENCH BOTTOM.

E. BACKFILLING AND TAMPING SHALL BE CAREFULLY DONE BY HAND SIMULTANEOUSLY ALONG BOTH SIDES OF THE PIPE USING ROCK FREE EARTH, CRUSHED STONE OR SAND UNTIL THE PIPE IS COVERED TO A DEPTH OF AT LEAST 12". BACKFILL SHALL BE ACCOMPLISHED IN SUCCESSIVE 6" LAYERS. THE REST OF THE FILL-UP TO THE TOPSOIL LAYER MAY BE GRAVEL OR ROCK FREE EARTH.

F. ACCEPTABLE SOIL MATERIALS FOR BACKFILL AND FILL SHALL BE FREE OF CLAY, ROCK OR GRAVEL LARGER THAN 2" IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS AND OTHER DELETERIOUS MATTER HAVING A PLASTICITY INDEX LESS THAN 30. BACKFILL SHALL BE ACCOMPLISHED IN LAYERS OF NOT MORE THAN 6" AND EACH LAYER SHALL BE COMPACTED. THE LAST 12" OF BACKFILL SHALL BE ROCK FREE TOPSOIL.

G. SURFACE SHALL BE RESTORED TO ITS ORIGINAL CONDITION.

2.02 INSTALLATION

A. WATER PIPING IN EXTERIOR WALL SHALL BE INSTALLED ON THE HEATED SIDE OF WALL INSULATION.

B. EXPOSED HOT AND COLD WATER TRIM FITTINGS AND ACCESSORIES IN FINISHED AREAS SHALL BE CHROME FINISHED.

C. ACCEPTABLE METHODS OF PIPE SUPPORT WITHIN WALLS SHALL BE THE SUMNER SYSTEM, POSIFIX, STAKFIX, PIPEFIX, HOLDRITE OR CHANNEL.

D. PROVIDE J.R. SMITH OR APPROVED EQUAL SHOCK ABSORBERS #5005 THRU 5050 SIZE AS RECOMMENDED BY MANUFACTURER INSTALLED ON HOT AND COLD WATER BRANCH LINES CONTAINING SINGLE LEVER FAUCETS, FLUSH VALVES OR EQUIPMENT WITH QUICK CLOSING VALVES BETWEEN THE LAST TWO FIXTURES AS SHOWN ON THE CONTRACT DRAWINGS. SHOCK ABSORBERS SERVICING FIXTURES WITH FLUSH VALVES SHALL BE SECURELY ANCHORED IN THEIR VERTICAL POSITION.

E. SANITARY WASTE LINES SHALL BE UNIFORMLY GRADED TO ELEVATIONS SHOWN. IF NO ELEVATIONS ARE GIVEN, SEWERS SHALL BE PITCHED NOT LESS THAN 1/4" PER FOOT FOR ALL PIPING 3" IN DIAMETER AND SMALLER AND 1/8" PER FOOT FOR ALL PIPING 4" IN DIAMETER AND LARGER.

F. STORM PIPING SHALL BE SLOPED AT 1/4" PER FT (2%) UNLESS NOTED OTHERWISE ON PLANS.

G. SUPPORT HORIZONTAL PIPING ACCORDING TO LOCAL PLUMBING CODE. HANGER RODS SHALL BE SIZED AS FOLLOWS:

NOMINAL PIPE SIZE (IN)	MINIMUM HANGER DIAMETER (IN)
1/2	3/8
3/4 TO 1-1/2	3/8
2 TO 2-1/2	3/8
3 TO 6	1/2

H. HANGERS FOR PIPING GREATER THAN 1" SHALL PASS OVER THE INSULATION. PROVIDE SADDLES FOR INSULATED PIPING.

I. INSULATION SHALL BE APPLIED WITH JOINTS TIGHTLY BUTTED. OPEN CRACKS, VOIDS AND DEPRESSIONS SHALL BE FILLED WITH HYDRAULIC SETTING CEMENT. LAPPING MATCHING THE FINISH SHALL BE PASTED NEATLY OVER JOINTS. FITTINGS AND VALVES SHALL BE INSULATED WITH THE SAME TYPE.

J. COORDINATE ABOVE-CEILING PIPING LOCATIONS AND ROUTING WITH HVAC CONTRACTOR AND M-SHEETS PRIOR TO INSTALLATION. ALL MAIN DUCT TRUNK LOCATIONS SHALL TAKE PRIORITY. PIPING MAY REQUIRE REMOVAL AND REINSTALLATION AT PLUMBING CONTRACTOR'S EXPENSE IF PIPING OBSTRUCTS THE M-SHEET DUCT LAYOUT AS SHOWN OR PREVENTS ACCESS TO GREASE DUCT CLEANOUT OPENINGS.

2.03 TESTING

A. POTABLE WATER PIPING SHALL BE PRESSURE TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

B. THE POTABLE WATER SYSTEM SHALL BE FLUSHED OUT PROGRESSIVELY BY OPENING OUTLETS AND FLOWING WATER UNTIL IT RUNS CLEAR. AFTER PIPE CLEANING IS COMPLETED, THE STRAINERS SHALL BE REMOVED, CLEANED, AND REPLACED. THEN THE ENTIRE POTABLE WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION.

C. THE SANITARY WASTE SYSTEM SHALL BE FLUSHED OUT PROGRESSIVELY WITH FLOWING WATER UNTIL IT RUNS CLEAR.

D. THE ENTIRE SANITARY WASTE SYSTEM AND STORM DRAINAGE SYSTEM SHALL BE PRESSURE TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

PART III - MANUFACTURERS

3.01 PRODUCTS - PIPING SYSTEMS, ETC

A. HYDRANTS, CARRIERS, DRAINS, AND SHOCK ABSORBERS: ZURN. ACCEPTABLE ALTERNATES: JAY R. SMITH, JONES STEPHENS CORP, WATTS, OR JOSAM.

B. ALTERNATES TO ZURN FIXTURES: ONLY AS SHOWN ON PLANS. APPROVED JAY R. SMITH, WATTS, MODEL NUMBERS LISTED ON FIXTURE SCHEDULE.

C. ALL FIXTURES NOTED ABOVE AND IN THE PLUMBING FIXTURE SCHEDULE SHALL BE PROVIDED THROUGH A NATIONAL ACCOUNT PROGRAM WITH FERGUSON.

3.02 PRODUCTS - RESTROOM FIXTURES PORCELAIN & VALVES

A. PREFERRED FIXTURES: TOTO. NO EXCEPTION.

B. ALTERNATE FIXTURES: ONLY AS SHOWN ON PLANS.

C. FITTINGS: AS SPECIFIED ON THE PLANS. NO SUBSTITUTIONS ALLOWED.

D. FLUSH VALVES AND LAVATORY FAUCETS: TOTO MANUFACTURING. NO SUBSTITUTIONS ALLOWED.

E. REFERRED TOILET SEATS: TOTO. ALTERNATE TOILET SEATS: CHURCH, BEMIS, AND BENEKE.

F. FLOOR SINKS: ZURN WITH ALUMINUM SEDIMENT BUCKETS. NO SUBSTITUTIONS ALLOWED.

PLUMBING GENERAL NOTES

DRAIN WASTE AND VENT NOTES

1. COORDINATE INSTALLATION OF SANITARY PIPING WITH FOOTINGS IN THE FIELD. SLEEVE PENETRATIONS IN FOOTINGS WITH PVC.
2. COORDINATE VENT TERMINAL LOCATIONS WITH FRESH AIR HOODS ON ROOFTOP EQUIPMENT SO AS TO MAINTAIN MINIMUM 15'-0" CLEARANCE.
3. ALL UNDERGROUND VENT PIPING TO BE 2" DIAMETER MIN U.N.O.
4. ALL BELOW SLAB SANITARY AND GREASE WASTE PIPING SHALL BE 3" DIAMETER U.N.O.

WATER DISTRIBUTION NOTES

1. FOR WATER HEATER INSTALLATION POSITION VALVES AND TRIM SUCH THAT VISIBLE OBSERVATION OF VALVES AND TRIM IS UNOBSTRUCTED AND SUCH THAT ACCESS FOR OPERATION OR REPAIR IS POSSIBLE WITHOUT USE OF STEP LADDERS OR ANY NEED TO DISASSEMBLE ANY COMPONENTS.
2. ALL WATER PIPING INSTALLED WITHIN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF THE INSULATION.
3. SEE KITCHEN DRAWINGS FOR KITCHEN EQUIPMENT WATER PIPING ROUGH-IN LOCATIONS AND ELEVATIONS.
4. WATER HEATER PIPING IS SHOWN FOR BRADFORD WHITE. ADJUST PIPING AS NEEDED TO ACCOMODATE OTHER CONNECTION POINTS WHEN ALTERNATE MODELS ARE PROVIDED.
5. ALL OVERHEAD WATER PIPING SHALL BE LOCATED ABOVE THE CEILING. RUN WATER PIPING THROUGH JOIST WEBBING. COORDINATE ALL DROP LOCATIONS WITH OTHER TRADES.

BEVERAGE CONDUIT NOTES

1. ROUTE BEVERAGE SYSTEM PIPING OVERHEAD FROM THE BEVERAGE RACK TO DRINK TOWERS IN FOUR (4)-6" DIA SCH 40 PVC DWV CONDUITS. ALL CONDUIT SHALL BE HELD TIGHT TO STRUCTURE AND SUPPORTED WITH THREADED ROD AND CLEVIS HANGERS AT INTERVALS SHOWN IN SPECIFICATIONS FOR HORIZONTALA OVERHEAD PIPING. COORDINATE ROUTING WITH THE GENERAL CONTRACTOR TO AVOID MECHANICAL AND ELECTRICAL SYSTEMS. SEE 1/P-101 AND 1/P-104 FOR BELOW-SLAB BEVERAGE CONDUIT.
2. COORDINATE ROUTING OF ALL CONDUITS WITH HVAC DUCT IN KITCHEN. SEE SHEET M-101 FOR LOCATION OF AC UNITS AND DUCT ROUTING.
3. TURN THE 6" DIA CONDUIT DOWN THROUGH THE CEILING AT THE BEVERAGE RACK AND PROVIDE CHROMED ESCUTCHEONS AT CEILING PENETRATIONS. TERMINATE OPPOSITE END ABOVE CEILING WHERE SHOWN ON PLANS.
4. AT 4" DIA CONDUIT DROP IN WALL, PROVIDE 1/8TH BEND FITTING WITH SHORT PIPE STUB AT BASE OF DROP. CUT STUB AND FITTING FLUSH WITH FINISHED WALL.
5. FOR BEVERAGE CONDUIT DROPS AT WALLS WITH SHEATHING EXTENDED ABOVE THE CEILING, PROVIDE APPROPRIATE FITTING AT UPPER END OF CONDUIT DROP TO EXTEND CONDUIT THROUGH SHEATHING.
6. INSTALL CONTINUOUS CONDUIT FROM CO2 FILL-BOX LOCATION TO BULK CO2 TANK AS SHOWN ON PLANS AND DETAILS. COORDINATE 4" CONDUIT WALL STUB INSTALLATION CLOSELY WITH GENERAL CONTRACTOR AND BRICK MASON. PRIOR TO COVERING UP OF CONDUIT, VERIFY WITH GENERAL CONTRACTOR THE FULL LENGTH OF FILL/VENT TUBING MAY BE INSTALLED AND SUBSEQUENTLY REMOVED FROM CONDUIT. SEE PLAN ON 1/P-104 AND DETAIL 9/P-501.

ABBREVIATIONS

EC	ELECTRICAL CONTRACTOR
GC	GENERAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
PC	PLUMBING CONTRACTOR
O.C.	ON CENTER
FS	FLOOR SINK
FD	FLOOR DRAIN
FV	FLUSH VALVE
FCO	FLOOR CLEAN OUT
WC	WATER CLOSET
KEQ	KITCHEN EQUIPMENT

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FSR#05484

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SHEET
PLUMBING SPECIFICATIONS, GENERAL NOTES & LEGENDS

SHEET NUMBER
P-001

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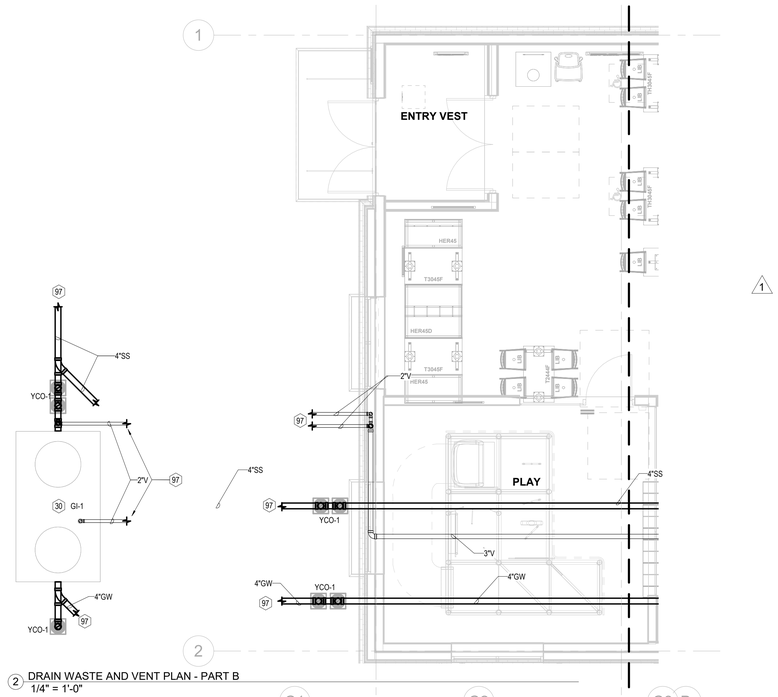
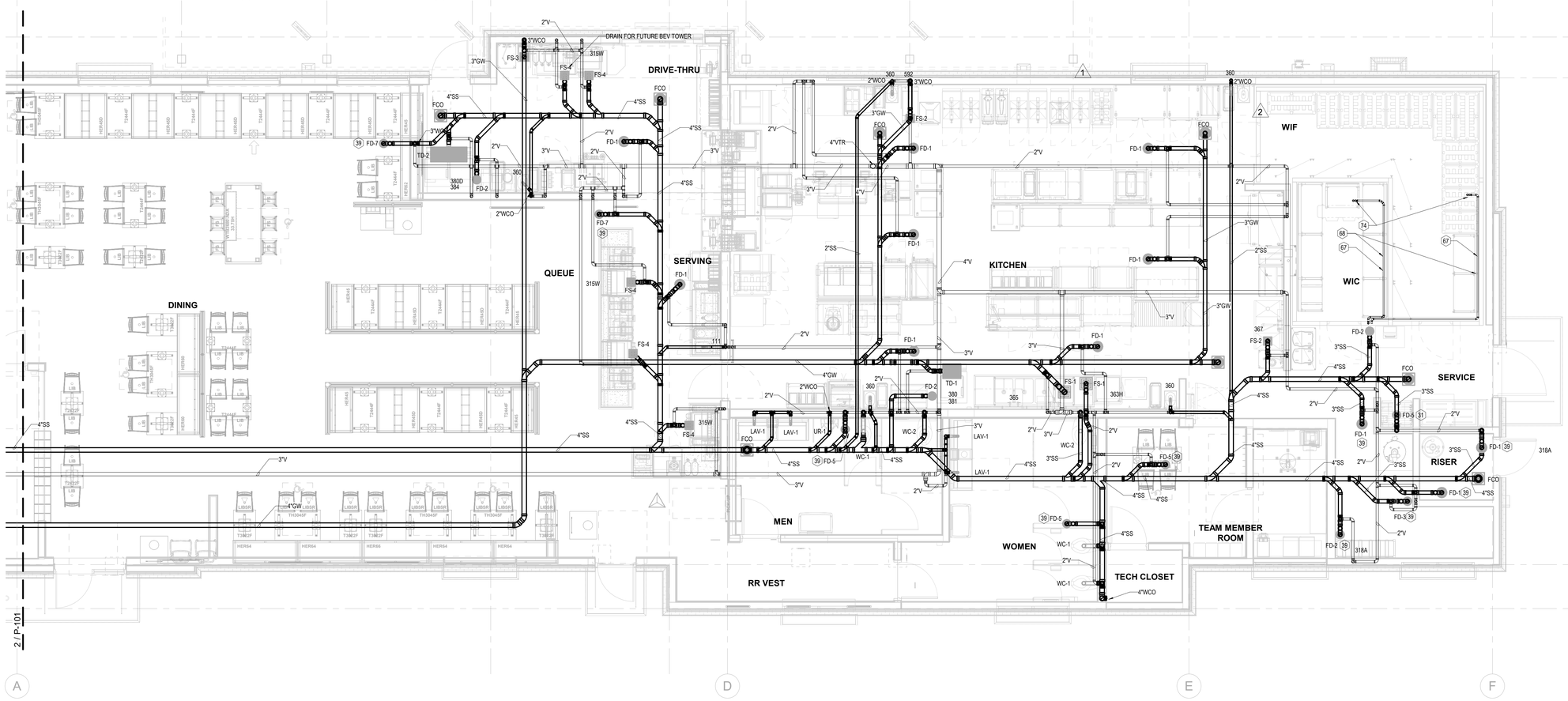
40-LS-05484-P-001-PLUMBING SPECIFICATIONS, GENERAL NOTES & LEGENDS



2 DRAIN WASTE AND VENT PLAN - PART B
1/4" = 1'-0"



1 DRAIN WASTE AND VENT PLAN - PART A
1/4" = 1'-0"

KEY NOTES

30	LOCATION OF GREASE INTERCEPTOR SHOWN FOR REFERENCE ONLY - SEE DETAIL SHEET FOR MORE INFORMATION, SEE CIVIL DRAWINGS FOR ACTUAL LOCATION OF THE GREASE INTERCEPTOR ON SITE.
31	INSTALL FLOOR DRAIN FD-5 AT MOP SINK DEPRESSION WITH TOP OF STRAINER 0'-7" BFF.
39	PROVIDE TRAP SEAL PROTECTION DEVICE.
67	INSTALL PIPING TIGHT TO WALL SO AS NOT TO INTERFERE WITH COOLER AND FREEZER SHELVES. PROVIDE UNION FITTINGS IMMEDIATELY DOWNSTREAM OF CONNECTION TO EVAPORATORS. ALL CONDENSATE PIPING SHALL BE SLOPED A MIN. 1/4" PER FOOT.
68	3/4" TYPE L COPPER. COVER WITH 1-3/8" I.D. X 3/4" ARMACELL A/P ARMAFLEX OVER HEAT TRACE CABLE.
74	INSTALL TRAP IN CONDENSATE PIPE.
97	SEE CIVIL DRAWINGS FOR CONTINUATION.

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FSR#05484

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SHEET
DRAIN WASTE AND VENT PLAN

SHEET NUMBER
P-101

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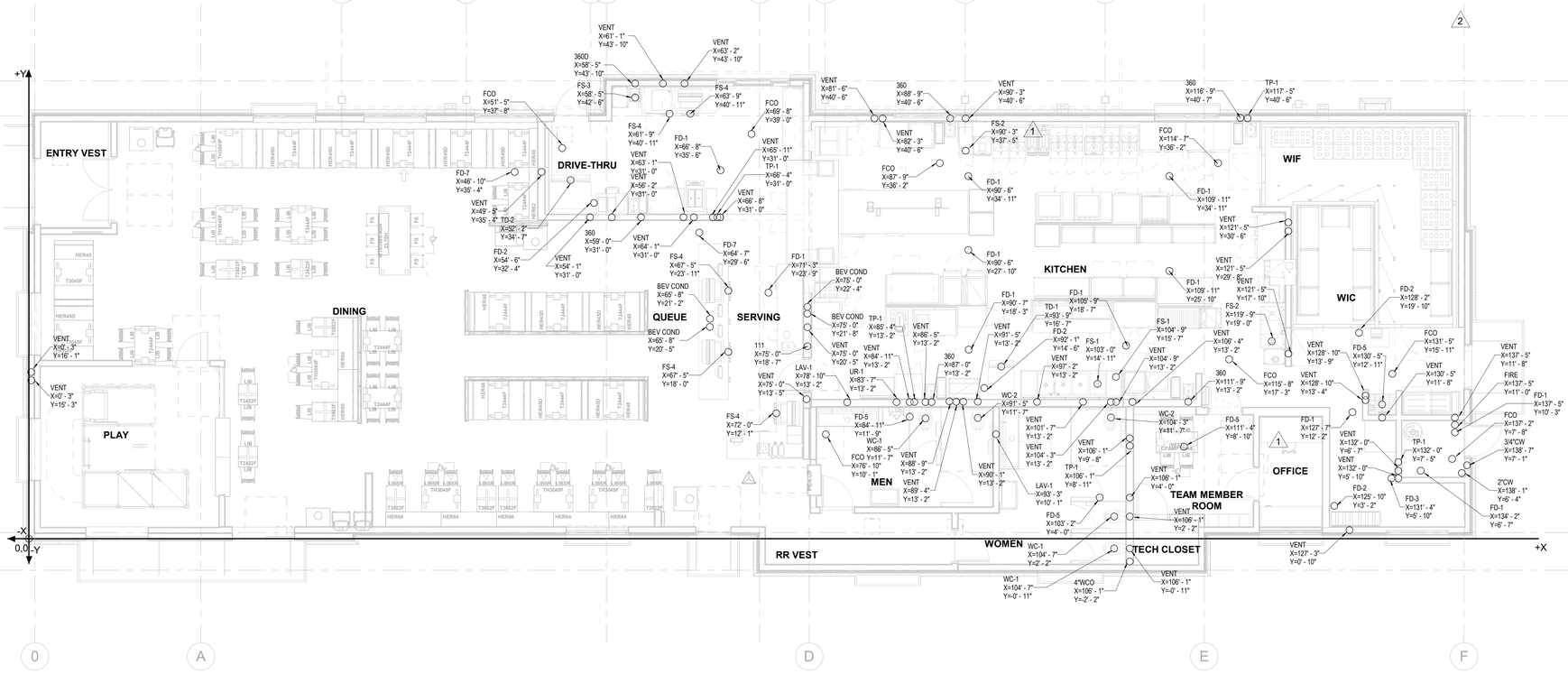
40-LS-05484-P-101-DRAIN WASTE AND VENT PLAN

NOTE OF SPECIAL IMPORTANCE:

BELOW-SLAB BEVERAGE CONDUIT SHALL BE 6" DIAMETER SCHED 40 DWV SOLID WALL, NO FOAM CORE ALLOWED. USE LONG RADIUS ELBOWS ON ALL BEVERAGE CONDUIT. PLEASE NOTE BEVERAGE CONDUIT ROUGH-IN LOCATIONS ARE MEASURED TO THE FRACTION OF AN INCH. CARE MUST BE TAKEN WHEN INSTALLING 6" DIAMETER CONDUIT LOCATED WITHIN A 2X8 WALL. THE MARGIN FOR ERROR IS ONLY 1/16TH INCH.

NOTES ABOUT (0,0) BENCHMARK ORIGIN

1. THE (X=0, Y=0) BENCHMARK ORIGIN IS LOCATED AT THE OUTSIDE FACE-OF-FRAMING FOR THE EXTERIOR WALL AT THE CORNER WHERE SHOWN.
2. IT IS EXTREMELY IMPORTANT FOR THE PLUMBING INSTALLER TO BECOME COMPLETELY FAMILIAR WITH THE FACE-OF-FRAMING POSITION AND ITS RELATION TO THE FLOOR SLAB CONSTRUCTION PRIOR TO BEGINNING THE UNDERSLAB PLUMBING ROUGH-IN.
3. PLUMBING CONTRACTOR SHALL REVIEW STRUCTURAL DETAILS FOR PRECISE LOCATION OF FACE-OF-FRAMING WITH RESPECT TO THE SLAB INSTALLATION PRIOR TO LOCATING SLAB ROUGH-INS.



1 UNDERGROUND ROUGH-IN PLAN
3/16" = 1'-0"

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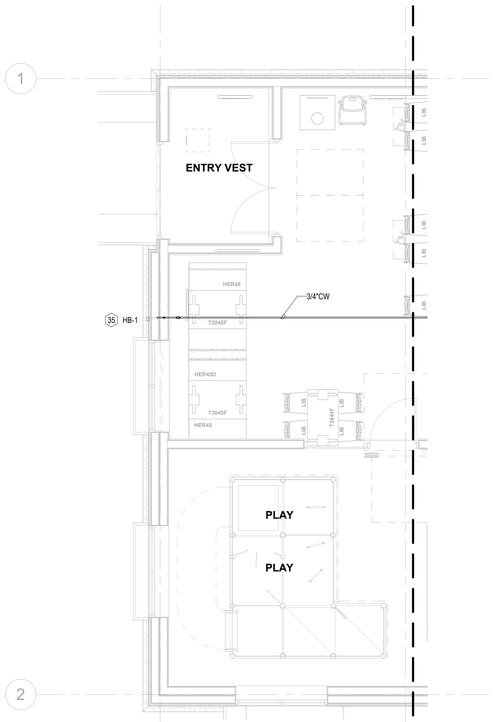
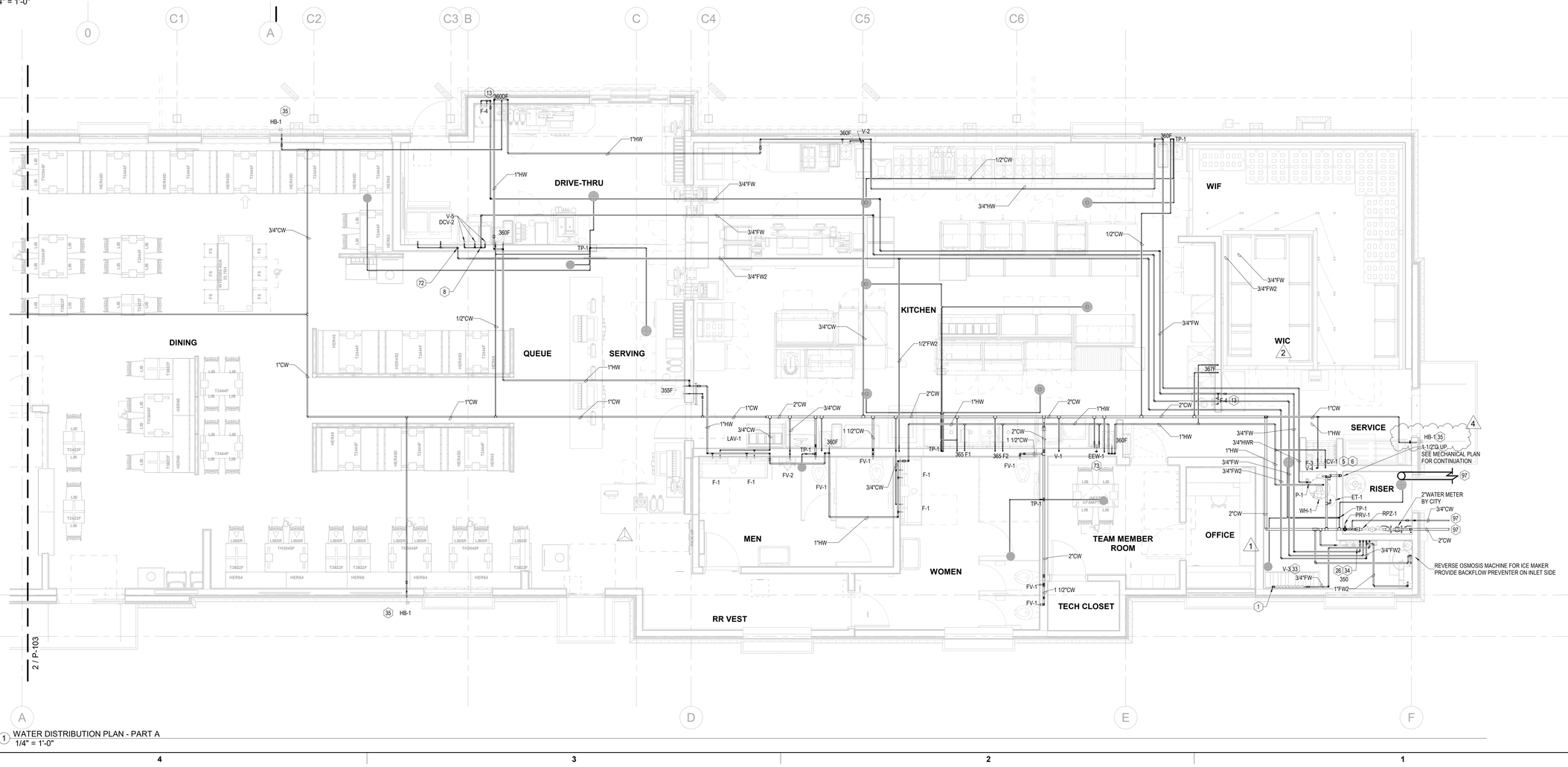
SHEET TITLE
UNDERGROUND ROUGH-IN PLAN

SHEET NUMBER
P-102

10/23/2025 10:43:35 AM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_PLB.rvt
40-LS-05484-P-102-UNDERGROUND ROUGH-IN PLAN



2 WATER DISTRIBUTION PLAN - PART B
1/4" = 1'-0"



1 WATER DISTRIBUTION PLAN - PART A
1/4" = 1'-0"

KEY NOTES

1 1" DIAMETER PVC DRAIN FROM BACKFLOW PREVENTER PANEL. CONNECT 1" PVC TO FACTORY PROVIDED COUPLING MOUNTED ON BACK PANEL. ROUTE TO DRAIN AT END OF BAG-N-BOX. MOUNT PIPING TIGHT TO WALL WITH STRUT AND CLAMP.

5 1/2" HW AND CW DROPS TO MOP SINK FAUCET. INSTALL SHUT OFF AND CHECK VALVE IN HOT AND COLD WATER PIPES ABOVE CEILING. SEE WATER DISTRIBUTION ISOMETRIC.

6 1/2" HW AND CW DROPS TO P-16 WALL FAUCET WITH VACUUM BREAKER FOR DEDICATED CONNECTION TO ECOLAB DETERGENT DISPENSER. MOUNT AS SHOWN ON K-SHEETS. PROVIDE BALL VALVES IN SUPPLY ABOVE CEILING.

8 1/2" FW FOR TWO TEA BREWERS AND ONE COFFEE MAKER. SEE DETAILS SHEET FOR MORE INFORMATION.

13 3/4" FW DOWN. SEE KITCHEN DRAWINGS FOR LOCATION. PIPE 1/2" FW TO EACH FAUCET INLET WITH 6" SPREAD. PROVIDE BALL VALVE ABOVE CEILING. SEE WATER DISTRIBUTION ISOMETRIC.

26 FW AND FW2 FROM WATER FILTERS. SEE DETAIL SHEET FOR MORE INFORMATION.

33 OWNER FURNISHED, PLUMBER INSTALLED STOP/BFP PANEL. SEE KITCHEN DRAWINGS FOR LOCATION AND ELEVATION. PROVIDE EXPOSED 3/4" BALL VALVE AT CONNECTION TO PANEL. ROUTE 1" PVC DRAIN FROM FACTORY PANEL DRAIN CONNECTION TO DRAIN AT END OF BEVERAGE RACK AND TERMINATE WITH ELBOW AND AIR GAP.

34 OWNER FURNISHED, PLUMBER INSTALLED WATER FILTERS. SEE DETAIL SHEET FOR MORE INFORMATION.

35 HOSE BIBB 24" ABOVE EXTERIOR GRADE. VERIIFY WALL THICKNESS AT EXTERIOR HOSE BIBB PRIOR TO ORDERING (TYP).

72 3/4" FW DOWN TO STOP(S) AT ICE MAKER(S). SEE DETAIL SHEET FOR MORE INFORMATION.

73 1/2" TEPID WATER TO EYEWASH #360E.

97 SEE CIVIL DRAWINGS FOR CONTINUATION.

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FSR#05484

BUILDING TYPE / SIZE: P14 LS XPS
RELEASE: 23.09
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REVISION SCHEDULE

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2	08/22/2025	Plan Check - Rev 2
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CONSULTANT PROJECT # 230392
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SHEET
WATER DISTRIBUTION PLAN

SHEET NUMBER
P-103

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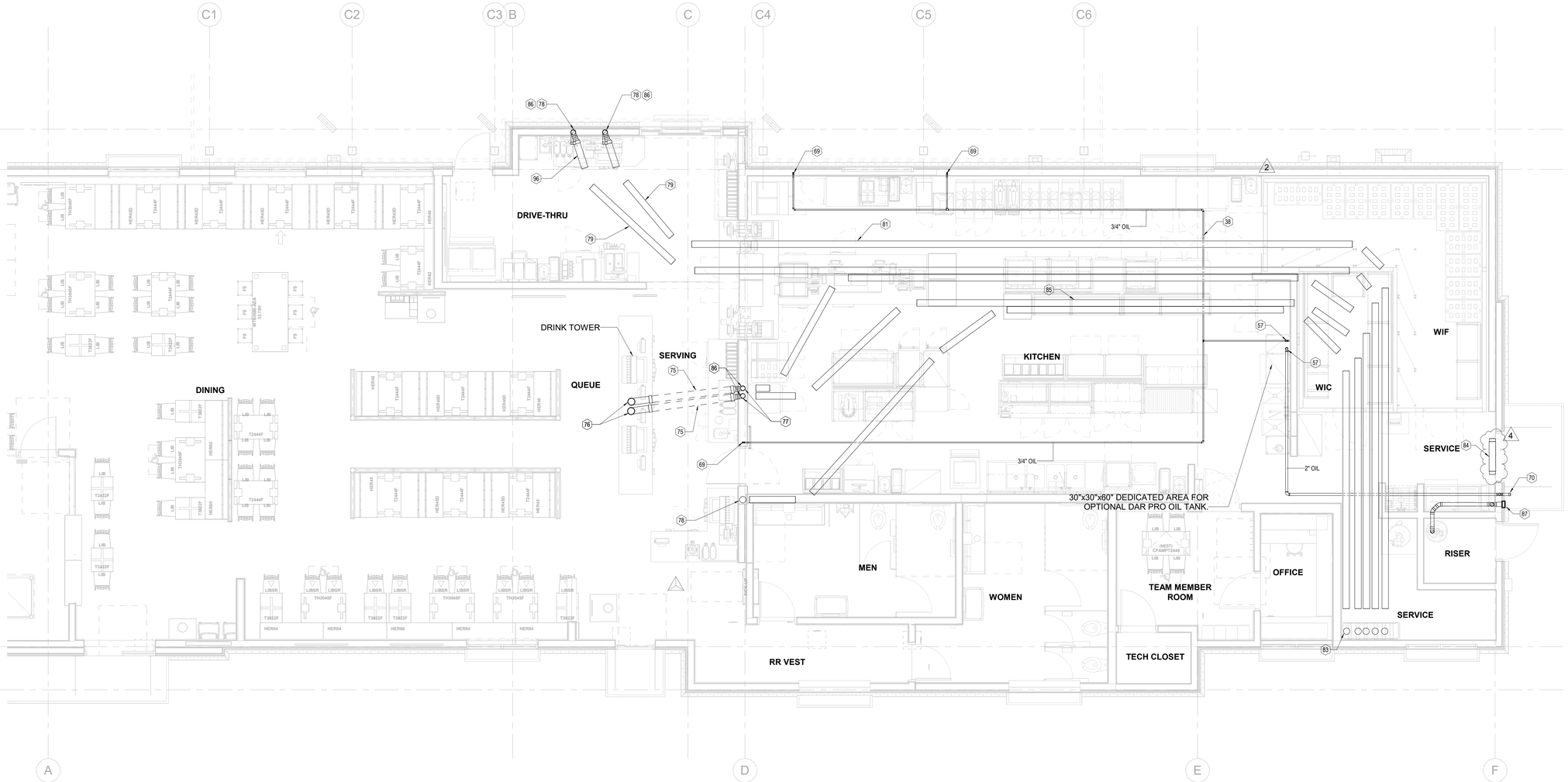
40-LS-05484-P-103-WATER DISTRIBUTION PLAN

KEY NOTES

38	PROVIDE SCHEDULE 40 (BLACK OR GALVANIZED) STEEL PIPING BACK TO FUTURE DARPRO OIL TANK. PIPING TO BE ROUTED TO ALLOW AS MUCH FALL AS POSSIBLE TO THE TANK.
57	3/4" AND 2" SCHEDULE 40 STEEL PIPES DOWN THROUGH CEILING. CAP PIPES 2" BELOW THE CEILING FOR FUTURE CONNECTION. PROVIDE CHROMED ESCUTCHEONS AT CEILING PENETRATIONS.
69	STUB OUT TO BE MOUNTED 30" AFF. SEE DETAIL SHEET FOR MORE INFORMATION.
70	EXTEND 2" STEEL PIPE BEYOND FACE OF BRICK. CAP FOR FUTURE USE. GC TO TRIM STUB-OUT ACCORDINGLY.
75	6" BEVERAGE CONDUIT BELOW SLAB.
76	TURN 6" BEVERAGE CONDUIT UP THRU SLAB. EXTEND 8" ABOVE SLAB SURFACE AND CAP WATERTIGHT. SEE 1/P-221 FOR LOCATION.
77	6" BEVERAGE CONDUIT UP FROM BELOW SLAB. COORDINATE WITH DEVICES, CONDUITS, AND FIXTURES FROM OTHER DISCIPLINES DURING PRE-CONSTRUCTION MEETING.
78	6" BEVERAGE CONDUIT DOWN IN WALL. START ABOVE CEILING AND TURN OUT THRU WALL TOWARDS DRINK TOWER WITH BOTTOM EDGE OF WALL PENETRATION 0'-8" ABOVE FINISHED FLOOR. SEE BEVERAGE CONDUIT NOTE #4 AND #5.
79	ROUTE 6" BEVERAGE CONDUIT IN THIS AREA ABOVE RECTANGULAR DUCT. COORDINATE CLOSELY WITH HVAC INSTALLER PRIOR TO INSTALLATION.
81	6" BEVERAGE CONDUITS. SEE BEVERAGE CONDUIT NOTE #3.
83	6" BEVERAGE CONDUIT TURNED DOWN THRU ACT. TYPICAL. SEE DETAIL SHEET FOR MORE INFORMATION.
84	PLAN STORAGE TUBE ABOVE DOOR. MOUNT 6" DIA X 30" LONG PVC WITH CLEANOUT PLUGS AT EACH END. SECURE TO WALL ABOVE EMERGENCY LIGHT WITH STRUT AND CLAMPS.
85	6" BEVERAGE CONDUIT TIGHT TO STRUCTURE. EXTEND WITHIN WALL. EXTEND UP THRU WALL FRAMING JUST ABOVE CEILING, TYPICAL. COORDINATE WITH DEVICES, CONDUITS, AND FIXTURES FROM OTHER DISCIPLINES DURING PRE-CONSTRUCTION MEETING.
86	TRANSITION FROM 6" TO 4" BEVERAGE CONDUIT AS CLOSE TO WALL AS POSSIBLE.
87	4" DIA STUB OUT AT REMOTE FILL-BOX. SEE DETAIL 9/P-501.
96	CONDUIT FOR FUTURE BEVERAGE TOWER.



1 BEVERAGE CONDUIT AND OIL PIPING PLAN
1/4" = 1'-0"

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FSR#05484

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2	08/22/2025	Plan Check - Rev 2
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DATE 01/17/24
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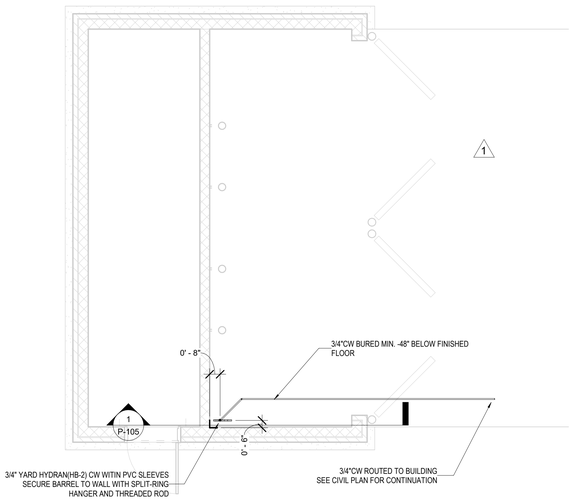
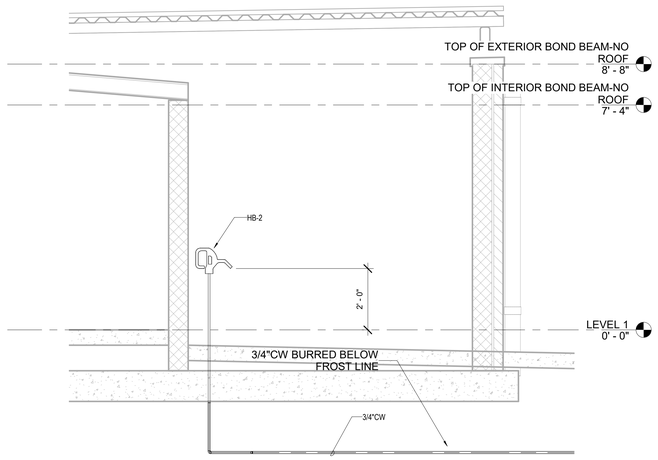
SHEET
BEVERAGE CONDUIT AND OIL PIPING PLAN

SHEET NUMBER
P-104

10/23/2025 10:43:52 AM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR05484_Custer & Washington FSU_PLB.rvt
40-LS-05484-P-104-BEVERAGE CONDUIT AND OIL PIPING PLAN



2 REFUSE PAD PLUMBING PLAN
1/4" = 1'-0"



1 YARD HYDRANT ELEVATION
1/2" = 1'-0"

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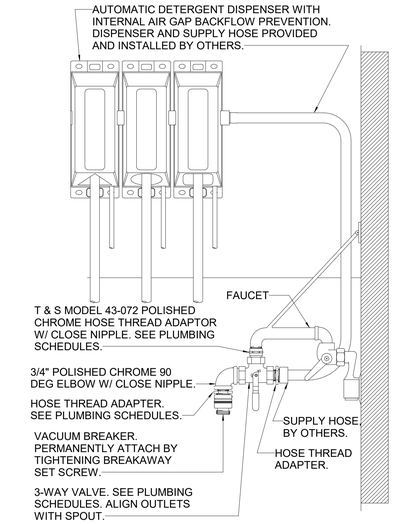
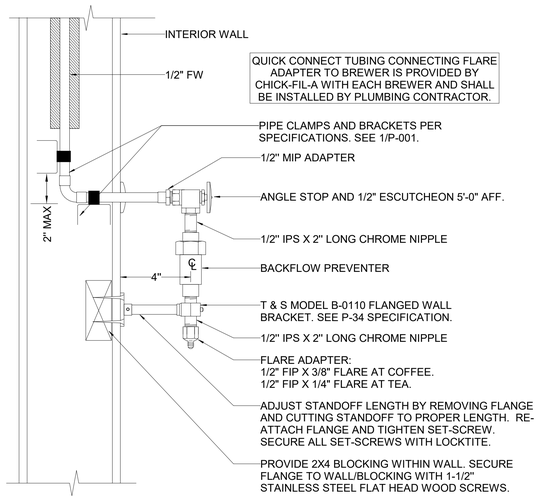
SHEET
PLUMBING REFUSE ENCLOSURE PLAN

SHEET NUMBER
P-105

10/23/2025 10:43:53 AM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_PLB.rvt
40-LS-05484-P-105-PLUMBING REFUSE ENCLOSURE PLAN

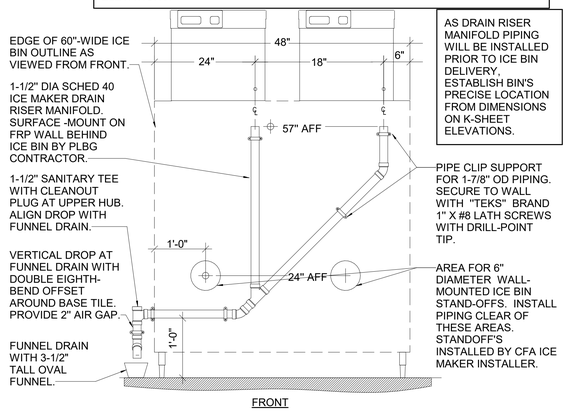


1 3-WAY VALVE AT MOP SINK
NOT TO SCALE

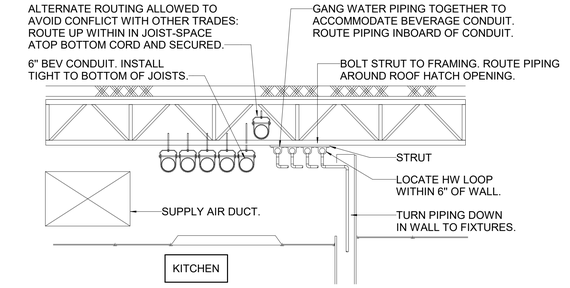


2 COFFEE & TEA BREWER STOP & BFP
1/4" = 1'-0"

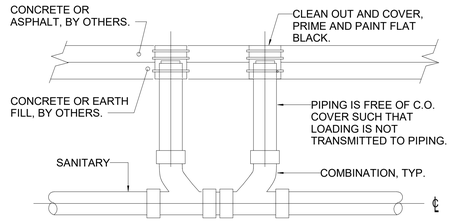
DRAIN RISER LOCATIONS MEASURED FROM EDGE OF ICE BIN. VERIFY ICE BIN WIDTH AND PRECISE LOCATION FROM DIMENSIONS ON KITCHEN DRAWINGS AND ELEVATIONS.



3 ICE MAKER DRAIN ON WALL
NOT TO SCALE



4 SECTION AT WET WALL
NOT TO SCALE



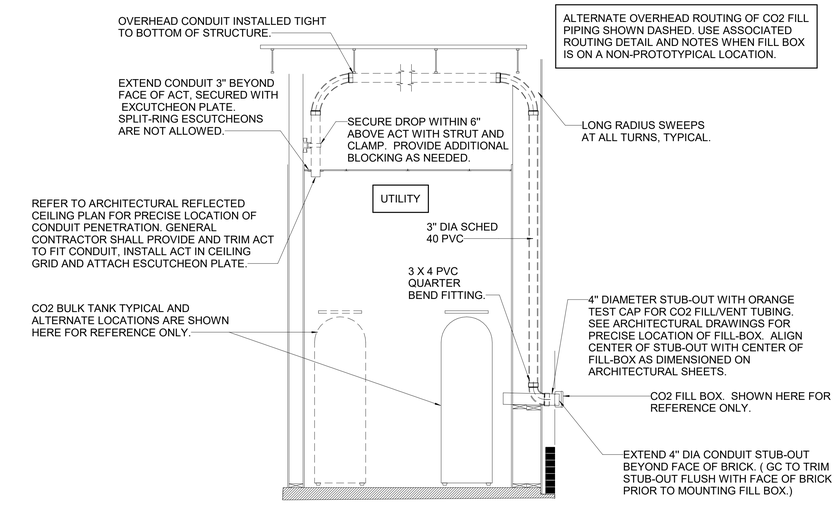
5 SAN. C.O. OUTSIDE BUILDING
NOT TO SCALE

6 GREASE INTERCEPTOR
NOT TO SCALE

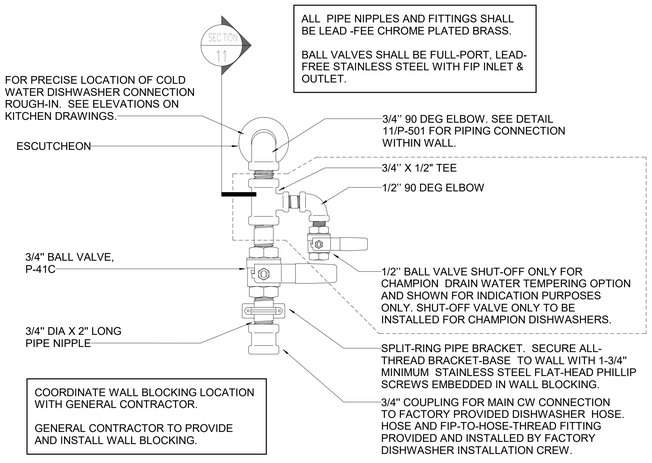
7 ICE MACHINE PIPING
NOT TO SCALE

8 RETHERMALIZER SUPPLY VALVE
NOT TO SCALE

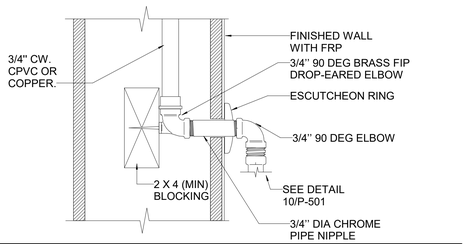
CO2 FILL BOX, FILL TUBING, AND VENT LINE SET FURNISHED BY CHICK-FIL-A AND FURNISHED BY GC. GC TO COORDINATE REQUIRED LENGTH OF TUBING AND LINE SET FROM FILL BOX TO TANK LOCATION WITH TMS; LENGTH NOT TO EXCEED 100 FT. FINAL CONNECTION BY CO2 VENDOR.



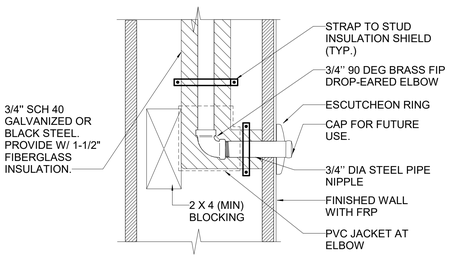
9 CO2 FILL/VENT CONDUIT AND FILL-BOX INSTALLATION
NOT TO SCALE



10 DISHWASHER SUPPLY VALVE ASSEMBLY
NOT TO SCALE



11 SECTION AT PIPNG WITHIN WALL
NOT TO SCALE



12 DARPRO OIL PIPING SECTION WITHIN WALL
NOT TO SCALE

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SHEET
PLUMBING DETAILS

SHEET NUMBER
P-501

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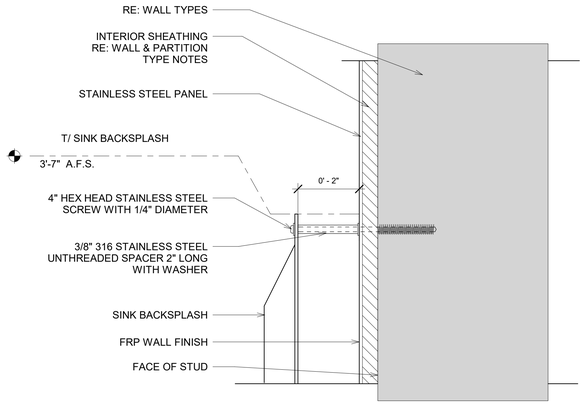
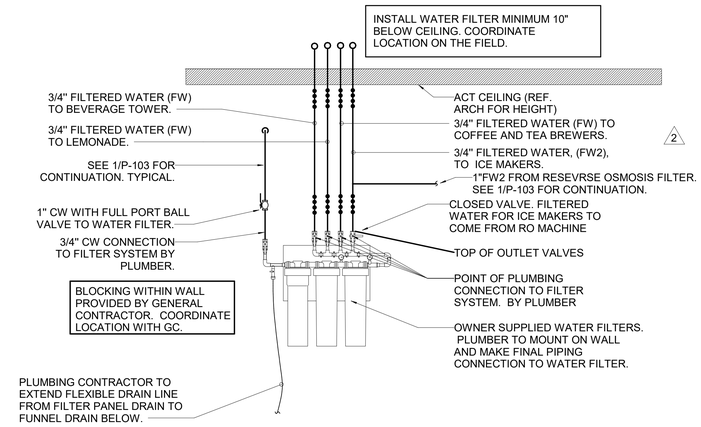
40-LS-05484-P-501-PLUMBING DETAILS

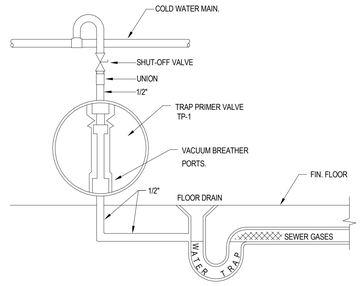


NOTE: TYPICAL DETAIL WHERE STAINLESS STEEL PANEL IS INSTALLED BEHIND KITCHEN SINK. RECOMMENDED SPACE BETWEEN ROD COUPLERS IS 20"-24".

1 STANDOFF DETAIL
NOT TO SCALE

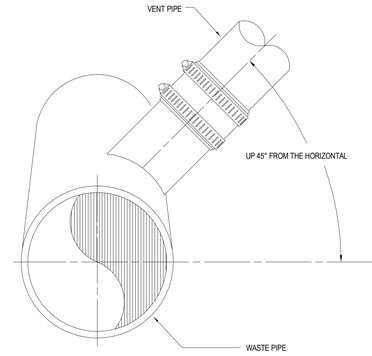


2 PIPING AT WATER FILTER
NOT TO SCALE



** PROVIDE AND INSTALL DISTRIBUTION UNIT AS NEEDED. PROVIDE AND INSTALL 12"X12" ACCESS PANEL

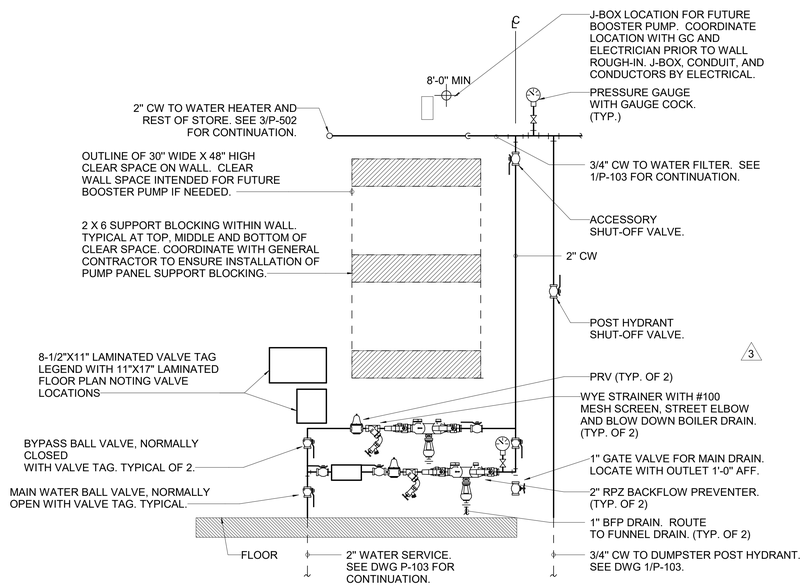
5 TRAP PRIMER
NOT TO SCALE



6 VENT TAKE-OFF UNDER SLAB
NOT TO SCALE

NOTE OF SPECIAL IMPORTANCE

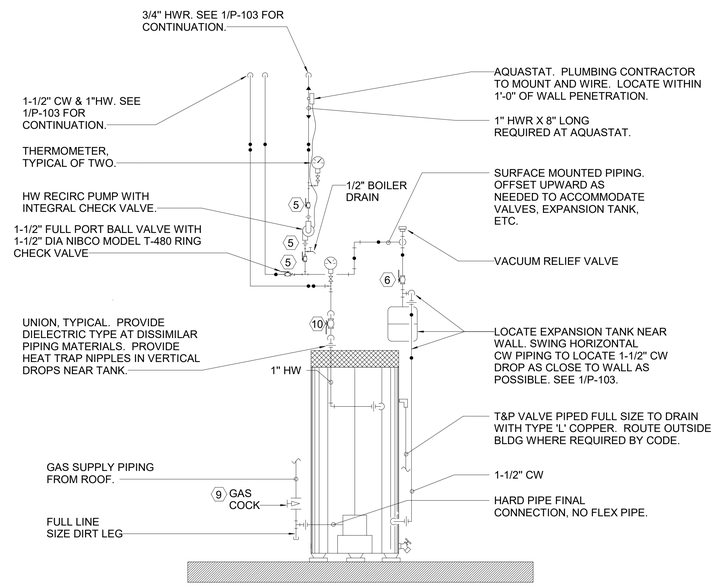
1. LOCATIONS OF 2" CW RISER AND CLEAR SPACE ARE DIMENSIONED BECAUSE THEY ARE CRITICAL FOR THE FUTURE PUMP PANEL INSTALLATION.
2. GENERAL CONTRACTOR SHALL ENSURE OTHER TRADES SHALL NOT INSTALL ANY OTHER BUILDING COMPONENT WITHIN CLEAR SPACE OR WITHIN 10" OF EDGES.



4 PIPING AT WATER SERVICE ENTRANCE IN MECHANICAL ROOM
NOT TO SCALE

NOTES TO WATER HEATER INSTALLER:

1. POSITION VALVES AND TRIM SUCH THAT VALVES AND TRIM ARE UNOBSTRUCTED TO VIEW AND SO THAT ACCESS FOR OPERATION OR REPAIR IS POSSIBLE WITHOUT USE OF STEP LADDERS OR NEED TO DISASSEMBLE ANY COMPONENTS.
2. VENT HEATER UP THRU ROOF AND PROVIDE FRESH AIR PIPING PER MANUFACTURER'S RECOMMENDATIONS.



3 PIPING AT WATER HEATER
NOT TO SCALE

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SHEET
PLUMBING DETAILS

SHEET NUMBER
P-502

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40-LS-05484-P-502-PLUMBING DETAILS

PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE MARK	DESCRIPTION	MANUFACTURER	MODEL	FURNISHED BY	INSTALLED BY	CW	HW	FW	FW2	WASTE	VENT	ACCESSORIES & COMMENTS
111	STAINLESS STEEL UNDERMOUNT SINK	VOLLRATH	10101-1P	MWK	KEC	0"	0"	0"	0"	1 1/2"	1 1/2"	CONTRACTOR SHALL INSTALL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. MCGUIRE 8912C POLISHED CHROME P-TRAP AND MCGUIRE LF175R20 STOPS WITH 20" CHROME PLATED 3/8" COPPER RISERS. SEE 355F.
350	WATER FILTER ARRAY	KINETICO PRO	CFA T1	KEC	PC	3/4"	0"	3/4"	3/4"	0"	0"	SEE DETAIL 2/P502.
355F	FAUCET - UNDERMOUNT SINK	TOTO	T24T51ET#CP	PC	PC	1/2"	1/2"	0"	0"	0"	0"	1.0 GPM AERATOR. ADJUST FAUCET OUTLET TEMPERATURE TO 110 DEGREES F (OR HIGHER AS REQUIRED BY LOCAL JURISDICTION).
360	HAND SINK	EAGLE GROUP	YCFA-HSAN-0004-00	KEC	PC	0"	0"	0"	0"	1 1/2"	1 1/2"	CONTRACTOR SHALL INSTALL WALL HUNG, STAINLESS STEEL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. MCGUIRE LF175 SUPPLIES WITH STOPS AND A MCGUIRE 8912C POLISHED CHROME P-TRAP. SEE 360F.
360DF	FAUCET - DUMP SINK	T&S BRASS	B-1146-CFA-VF05	PC	PC	1/2"	1/2"	0"	0"	0"	0"	ADJUST FAUCET OUTLET TEMPERATURE TO 110 DEGREES F. PROVIDE WALL ESCUTCHEON PLATE ACCESSORY.
360F	FAUCET - HAND SINK	TOTO	TEL165-C20E#CP	PC	PC	1/2"	1/2"	0"	0"	0"	0"	ADJUST FAUCET OUTLET TEMPERATURE TO 110 DEGREES F. PROVIDE WALL ESCUTCHEON PLATE ACCESSORY.
365	4-COMPARTMENT SINK	EAGLE GROUP	YCFA-314-18-4-19.5	KEC	PC	0"	0"	0"	0"	1 1/2"	2"	SEE 365 F1 & 365 F2. CONTRACTOR SHALL INSTALL SINK, ASSEMBLE & MOUNT TWO FAUCETS. AND MAKE FINAL CONNECTIONS. MCGUIRE LFST08 STOPS AND BRASSCRAFT 36" CHROME PLATED 1/2" OD COPPER RISERS MODEL 3-36AC (SUPPLIED BY FERGUSON 844.868.8060).
365 F1	FAUCET 1 - 4 COMP	T&S	B-2299-CR	PC	PC	1/2"	1/2"	0"	0"	0"	0"	CONTRACTOR SHALL INSTALL SINK, ASSEMBLE & MOUNT FAUCET, AND MAKE FINAL CONNECTIONS. PROVIDE WALL ESCUTCHEON PLATE ACCESSORY. MCGUIRE LFST08 STOPS AND BRASSCRAFT 36" CHROME PLATED 1/2" OD COPPER RISERS MODEL 3-36AC.INSTALL ADD-ON FAUCET WITH SPOUT AT BASE OF PRE-RINSE SPRAY, ASSEMBLE AND MOUNT ONE TWO-HANDLE FAUCET WITH DOUBLE JOINT SPOUT ON OPPOSITE SIDE. PROVIDE 1-1/2" SCHED 80 PVC (PIPE AND FITTINGS) INDIRECT WASTE LINES FROM EACH SINK BASIN TO FLOOR SINK FS-1, NO TRAPS REQUIRED. SEE K-SHEET ELEVATIONS FOR FAUCET LOCATIONS.
365 F2	FAUCET 2 - 4 COMP WITH SPRAY VALVE	T&S	B-0152-14-CRBCT (SPRAY VALVE: B-0107-C)	PC	PC	1/2"	1/2"	0"	0"	0"	0"	CONTRACTOR SHALL INSTALL SINK, ASSEMBLE & MOUNT FAUCET, AND MAKE FINAL CONNECTIONS. PROVIDE WALL ESCUTCHEON PLATE ACCESSORY. MCGUIRE LFST08 STOPS AND BRASSCRAFT 36" CHROME PLATED 1/2" OD COPPER RISERS MODEL 3-36AC. ASSEMBLE AND MOUNT ONE TWO-HANDLE FAUCET WITH PRE-RINSE RISER. PROVIDE 1-1/2" SCHED 80 PVC (PIPE AND FITTINGS) INDIRECT WASTE LINES FROM EACH SINK BASIN TO FLOOR SINK FS-1, NO TRAPS REQUIRED. SEE K-SHEET ELEVATIONS FOR FAUCET LOCATIONS.
367	VEGETABLE PREP SINK - DOUBLE BOWL	EAGLE GROUP	YCFA-0072-00	KEC	PC	0"	0"	0"	0"	1 1/2"	0"	PROVIDE 1-1/2" SCHED 80PVC (PIPE AND FITTINGS) INDIRECT WASTE LINES FROM SINK BASINS TO FLOOR SINK FS-2. FERGUSON)844.868.8060) TO SUPPLY FISHER #22209 DRAINS WITH FLAT STRAINERS.
367F	FAUCET WITH SPRAY VALVE - VEG PREP	T&S	B-0152-14-CRBCT (SPRAY VALVE: B-0107-C)	PC	PC	1/2"	1/2"	0"	0"	0"	0"	CONTRACTOR SHALL INSTALL SINK AND MAKE FINAL CONNECTIONS. MCGUIRE LFST08 STOPS AND BRASSCRAFT 36" CHROME PLATED 1/2" OD COPPER RISERS MODEL 3-36AC. PROVIDE WALL ESCUTCHEON PLATE ACCESSORY.
380	ICE MAKER	MCGUIRE	LFHST06SB	PC	PC	0"	0"	0"	1/2"	0"	0"	UTILITY CONNECTION: LEAD FREE CHROME WHEEL ANGLE STOP. 1/2" FIP INLET AND OUTLET. PROVIDE CHROME WALL ESCUTCHEON. INSTALL WITH BFP. SEE DETAIL 7/P-501 FOR PIPING AT ICE MAKERS.
CV-1	MOP SINK CHECK VALVE	T&S	B-CVV1-2	PC	PC	1/2"	1/2"	0"	0"	0"	0"	LEAD FREE, BRASS MODEL.
DCV-1	DUAL CHECK VALVE WITH ATMOSPHERIC VENT - ICE MAKER	WATTS	LF7RU2-2	PC	PC	0"	0"	0"	3/8"	0"	0"	PIPE DCV VENT TO FLOOR DRAIN.
DCV-2	DUAL CHECK VALVE WITH ATMOSPHERIC VENT - COFFEE AND TEA	WATTS	SD-2	PC	PC	0"	0"	3/8"	0"	0"	0"	PIPE DCV VENT TO FLOOR DRAIN.
EEW-1	EMERGENCY EYE WASH	ACORN	S0660-RH	PC	PC	1/2"	1/2"	0"	0"	0"	0"	BRADLEY MODEL S19-200R000 THERMOSTATIC TEMPERING VALVE. ANSI Z358.1 CERTIFIED FOR EMERGENCY FIXTURES, ASSE 1071 COMPLIANT, WITH DIAL THERMOMETER, INLET CHECK STOPS, ADJUSTABLE SETPOINT, ACCURATE WITHIN +/- 3 DEG F. INCLUDES INTEGRAL COLD WATER BYPASS WITH POSITIVE HOT WATER SHUT OFF WHEN COLD WATER SUPPLY IS LOST. FACTORY SETPOINT OF 85 DEG F. MOUNTING BRACKET INCLUDED. FACTORY ASSEMBLED AND TESTED. ROUGH BRASS FINISH.
ET-1	EXPANSION TANK	A.O. SMITH	TW12-5	PC	PC	3/4"	0"	0"	0"	0"	0"	ACCEPTANCE 2.19 GALLONS AT 40 PSI PRECHARGE. ALTERNATE MODELS SIZED PER WATER HEATER MANUFACTURER RECOMMENDATIONS ARE ACCEPTABLE. ALT: AMTROL: ST-12.
F-1	FAUCET - TROUGH SINK	TOTO	T24S51E#CP	PC	PC	1/2"	1/2"	0"	0"	0"	0"	ECO-POWER SENSOR HOT/COLD FAUCET WITH THERMOSTATICALLY CONTROLLED ASSE 1070 MIXING VALVE FAUCET. NO SUBSTITUTIONS.
F-3	FAUCET - MOP SINK	T&S	B-2345	PC	PC	1/2"	1/2"	0"	0"	0"	0"	WITH CERAMA SPRING CHECK VALVE CARTRIDGES, HOSE THREAD SPOUT OUTLET, TOP BRACE, ADJUSTABLE INLET SPREAD FROM 3" TO 8". INCLUDE T&S BRASS MODEL 43-072 HOSE THREAD X 3/4" FEMALE NPT CHROME ADAPTOR. NO SUBSTITUTIONS.
F-4	FAUCET - FILTERED WATER - JUICING TABLE	T&S	B-0599-CR	PC	PC	0"	0"	1/2"	0"	0"	0"	TWO HANDLE WALL MOUNT FAUCET WITH SWING SPOUT. MOUNT ON WALL AS SHOWN ON K SHEETS. PIPE FILTERED WATER TO BOTH SIDES OF FAUCET. CONNECT TO SUPPLY PIPING WITH BRASS OR CHROME NIPPLES, GALVANIZED NOT ALLOWED.
FCO	FLOOR CLEANOUT	ZURN	ZN1400-XNL-T-BP	PC	PC	0"	0"	0"	0"	4"	0"	CLEANOUT SQUARE WITH 6" NICKEL BRONZE TOP AND TAPER THREAD BRONZE PLUG. SEE PLAN FOR WASTE SIZE.
FD-1	KITCHEN AREA DRAIN	ZURN	EZ1-PV3-R8	PC	PC	0"	0"	0"	0"	3"	2"	BRONZE SPUD WITH 8" DIAMETER NICKEL BRONZE STRAINER. ALT: JONES STEPHENS CORP D53-144.
FD-2	FUNNEL DRAIN	ZURN	ZN415E-SC-VP	PC	PC	0"	0"	0"	0"	3"	2"	INDIRECT WASTE RECEIVER WITH NICKEL BRONZE STRAINER AND FUNNEL. PROVIDE 6" SQUARE STRAINER WITH 4" (ZURN- ZN328-4) ROUND FUNNEL AT ICE MACHINE & WALK-IN COOLER (SUPPLIED BY FERGUSON 844.868.8060).
FD-3	FLOOR DRAIN WITH FUNNEL	ZURN	ZN415-3NL-8S-OF	PC	PC	0"	0"	0"	0"	3"	2"	INDIRECT WASTE RECEIVER WITH NICKEL BRONZE STRAINER AND FUNNEL. PROVIDE 6" SQUARE STRAINER WITH 4" (ZURN- ZN328-4) ROUND FUNNEL.
FD-5	FLOOR DRAIN - TOILET ROOMS/MOP SINK	ZURN	EZ1-PV3-R6	PC	PC	0"	0"	0"	0"	3"	2"	BRONZE SPUD WITH 6" DIAMETER NICKEL BRONZE STRAINER. ALT: JONES STEPHENS CORP D50-064.
FD-7	FLOOR DRAIN - DINING ROOM	ZURN	EZ1-PV3-S6	PC	PC	0"	0"	0"	0"	3"	2"	BRONZE SPUD WITH 6" SQUARE NICKEL BRONZE STRAINER. ALT: JONES STEPHENS CORP D50-077.
FS-1	FLOOR SINK - 4-COMPARTMENT/D.W.	ZURN	Z1901-4NL-1-23-KC	PC	PC	0"	0"	0"	0"	3"	3"	INDIRECT WASTE RECEIVER WITH 12" SQUARE BODY, FLASHING CLAMP, 8" SQ. BODY, ALUMINUM SEDIMENT BUCKET, AND NO GRATE.
FS-2	FLOOR SINK - VEGETABLE PREP SINK/RETHERMALIZER	ZURN	Z1910-KC-2-23	PC	PC	0"	0"	0"	0"	3"	2"	INDIRECT WASTE RECEIVER WITH FLASHING CLAMP, 8" SQ. BODY, ALUMINUM SEDIMENT BUCKET, AND NO GRATE.
FS-3	FLOOR SINK - DUMP SINK	ZURN	Z1910-KC-2-23	PC	PC	0"	0"	0"	0"	3"	2"	INDIRECT WASTE RECEIVER, NEO-LOC OUTLET, ANCHOR FLANGE WITH SEEPAGE HOLES AND CLAMP COLLAR, WITH HALF GRATE, AND ALUMINUM BUCKET.
FS-4	FLOOR SINK - BEV COND	ZURN	Z1901	PC	PC	0"	0"	0"	0"	3"	3"	2" CONNECTION, INDIRECT WASTE RECEIVER, WITH HALF GRATE, STAINLESS STEEL MESH LINER AND ALUMINUM BUCKET.
FV-1	FLUSH VALVE - WATER CLOSET	TOTO	TET1LA32#CP	PC	PC	1 1/2"	0"	0"	0"	0"	0"	1.28 GPF ECO-POWER SELF-GENERATING ELECTRONIC SENSOR-OPERATED FLUSH VALVE.
FV-2	FLUSH VALVE - URINAL	TOTO	TEU1UA12#CP	PC	PC	3/4"	0"	0"	0"	0"	0"	SELF SUSTAINED HYDROPOWER SELF-GENERATING ELECTRONIC SENSOR-OPERATED FLUSH VALVE
GI-1	GREASE INTERCEPTOR (1500 GALLONS)	-	-	PC	PC	0"	0"	0"	0"	4"	2"	CONCRETE GREASE INTERCEPTOR.
HB-1	HOSE BIBB / WALL HYDRANT	WOODFORD	67C	PC	PC	3/4"	0"	0"	0"	0"	0"	AUTOMATIC DRAINING HOSE BIBB WITH DUAL CHECK BFP, ASSE 1052 APPROVED, WALL CLAMP, POLISHED BRASS FINISH. "C" STYLE INLET. ALT (WTS) HY-42.
HB-2	DUMPSTER POST HYDRANT	WOODFORD	Y2	PC	PC	3/4"						3/4" HOSE CONNECTION, LOCKABLE LEVER HANDLE, BRASS CASING, BRASS OPERATING ROD, ASSE 1052 APPROVED.
LAV-1	SOLID SURFACE TROUGH SINK	CLAYTON FIXTURES	-	OWN	PC	0"	0"	0"	0"	1 1/2"	1 1/2"	SEE F-1. PROVIDE MCGUIRE LF175 SUPPLY WITH STOP, MCGUIRE 155-VC GRID DRAIN WITH OFFSET TAILPIECE. MCGUIRE 8872 POLISHED CHROME P-TRAP. P-TRAP SHALL BE PARALLEL WITH BACK WALL. TRUEBRO INC., HANDI LAV-GUARD INSULATION KITS MODELS 101E-Z AND 105E-Z.
P-1	RECIRCULATING PUMP	TACO	006-SC7-IFC	PC	PC	0"	3/4"	0"	0"	0"	0"	1/2" UNION CONNECTIONS, INTEGRAL FLOW CHECK. ELECTRICIAN TO PROVIDE AND WIRE PLUG AND CORD, 1/40 HP, 3 GPM, AT 7FT TOTAL DYNAMIC HEAD. PROVIDE CONTROL WIRING AND AQUASTAT WITH ADJUSTABLE SETPOINT, MOUNTED DIRECTLY ON PIPE. SET SHUT-OFF TEMPERATURE TO 104 DEG F (PER SECTION C404.6.1 OF THE IECC).
PG-1	PRESSURE GAUGE	TRERICE	800B	PC	PC	1/2"	0"	0"	0"	0"	0"	2-1/2" ROUND, BOTTOM OUTLET WITH 1/4" N.P.T. CONNECTION AND 0 TO 100 PSI RANGE.
PRV-1	PRESSURE REDUCING VALVE	WATTS	LF223-S-B	PC	PC	2"	0"	0"	0"	0"	0"	NOTE TO DESIGNER: PROVIDE ONLY WHEN WATER PRESSURE AT BUILDING EXCEEDS 80 PSIG OR WHEN USING A BOOSTER PUMP. WITH BUILT-IN BYPASS FEATURE. SET NO FLOW CONDITION AT 70 PSI. ALT: (ZRN) SERIES 500XLYSBR.
RPZ-1	REDUCED PRESSURE ZONE ASSEMBLY	WATTS	LFU009M2	PC	PC	2"	0"	0"	0"	0"	0"	COORDINATE LOCATION WITH CIVIL SITE UTILITY PLAN. REDUCED PRESSURE ZONE (RPZ): MODULAR TYPE WITH TEST PORTS AND INTERMEDIATE RELIEF VALVE MEETING ASSE 1012 AND AWWA C511-89. (ANY AND ALL ALTERNATES SUPPLIED BY FERGUSON 844.868.8060).
ST-1	WYE STRAINER	WATTS	LF777SM3-2	PC	PC	2"	0"	0"	0"	0"	0"	BRONZE WYE STRAINER WITH THREADED CONNECTION AND TAPPED RETAINER CAP. PROVIDE #100 MESH SCREEN. PROVIDE WATTS 1/2" LFBD-1C BRASS BOILER DRAIN WITH BRASS STREET 90 DEGREE ELBOW
TD-1	TRENCH DRAIN - 700 LB. ICE BIN	ZURN	TR12-CFA-18	PC	PC	0"	0"	0"	0"	3"	2"	STAINLESS STEEL TRENCH DRAIN, 14.5"X18" STAINLESS STEEL SEDIMENT CUP AND STAINLESS STEEL SERRATED LADDER GRATE.
TD-2	TRENCH DRAIN - 1300 LB. ICE BIN	ZURN	TR12-CFA-36	PC	PC	0"	0"	0"	0"	3"	2"	STAINLESS STEEL TRENCH DRAIN, 14.5"X36" STAINLESS STEEL SEDIMENT CUP AND STAINLESS STEEL SERRATED LADDER GRATE.
TP-1	TRAP PRIMER WITH 4-WAY DISTRIBUTION	PPP	PR-500 W/ DU-U	PC	PC	0"	0"	0"	0"	3"	0"	PROVIDE DISTRIBUTION UNIT WHERE SERVING MULTIPLE DRAINS. PROVIDE SCREWDRIVER STOP AT PRIMER INLET. ALTERNATE: (WTS) TP-300A-DR.
UR-1	URINAL - WASHOUT	TOTO	UT445UG#01	PC	PC	0"	0"	0"	0"	2"	2"	SEE FV-2. 3/4" TOP SPUD, SENSOR OPERATED WITH MANUAL OVERRIDE BUTTON, INTERNAL VALVE FILTER PROTECTION.
V-1	SUPPLY VALVE - DISHWASHER	WATTS	3/4 S-FBV-1	PC	PC	3/4"	0"	0"	0"	0"	0"	FULL-PORT LEAD-FREE STAINLESS STEEL BALL VALVE(S) WITH SPLIT-RING BRACKET, CHROME FITTINGS, PIPE NIPPLES AND ESCUTCHEON.
V-2	SUPPLY VALVE - RETHERMALIZER	WATTS	1/2 S-FBV-1	PC	PC	1/2"	0"	0"	0"	0"	0"	FULL-PORT LEAD-FREE STAINLESS STEEL BALL VALVE(S) WITH SPLIT-RING BRACKET, CHROME FITTINGS, PIPE NIPPLES AND ESCUTCHEON.
V-3	BALL VALVE	NIBCO	4660-T	PC	PC	0"	0"	3/4"	0"	0"	0"	ISOLATION BALL VALVE (8-STOP WATER MANIFOLD PANEL). WITH IPS INLET AND OUTLET.
V-4	3-WAY DIVERTER VALVE	WATTS	LFB 6780	PC	PC	1/2"	0"	0"	0"	0"	0"	ROUGH BRASS LEAD-FREE DIVERTER BALL VALVE WITH 3/4" FIP INLET AND OUTLETS AND QUARTER TURN LEVER HANDLE. PROVIDE WITH TWO FORGED BRASS 3/4" MIP X 3/4" MALE GARDEN HOSE THREAD ADAPTERS. PROVIDE WITH ONE ASSE 1011 APPROVED CHROME PLATED VACUUM BREAKER. ALSO PROVIDE TWO 3/4" CLOSE CHROME PLATED BRASS NIPPLE AND 3/4" POLISHED CHROME 90 DEG ELBOW.
V-5	TEA BREWER / COFFEE MAKER	MCGUIRE	LFHST06SB	PC	PC	0"	0"	1/2"	0"	0"	0"	LEAD FREE CHROME WHEEL ANGLE STOP, 1/2" FIP INLET AND OUTLET FOR TEA BREWER (KEQ#305) AND COFFEE MAKER (KEQ#308). INSTALL WITH BFP. PROVIDE ESCUTCHEON PLATE AT PIPE PENETRATION.
VRV-1	VACUUM RELIEF VALVE	WATTS	LFN36M1	PC	PC	3/4"	0"	0"	0"	0"	0"	(SUPPLIED BY FERGUSON 844.868.8060).
WC-1	WATER CLOSET	TOTO	CT705UN#01	PC	PC	0"	0"	0"	0"	3"	2"	SEE FV-1. PROVIDE WITH SC534 SEAT. NO SUSBSTITUTIONS. WHITE, FLOOR MOUNTED, FLUSH VALVE TYPE. VITREOUS CHINA, 1-1/2" TOP SPUD, ELONGATED BOWL, WHITE OPEN FRONT SEAT WITH CHECK HINGE.
WC-2	WATER CLOSET - ADA	TOTO	CT705ULN#01	PC	PC	0"	0"	0"	0"	3"	2"	SEE FV-1. PROVIDE WITH SC534 SEAT. NO SUSBSTITUTIONS. H.C. ACCESSIBLE, WHITE, FLOOR MOUNTED, 17-1/2" HIGH, FLUSH VALVE TYPE, VITREOUS CHINA, 1-1/2" TOP STUD, ELONGATED BOWL, WHITE OPEN FRONT SEAT WITH CHECK HINGE, AND NO OFFSET TOILET FLANGES.
WH-1	GAS STORAGE TANK WATER HEATER	BRADFORD-WHITE	EF100T150E3N	PC	PC	1 1/2"	1 1/2"	0"	0"	0"	0"	100 GALLON, 150,000 BTU GAS INPUT STORAGE TANK WATER HEATER. TO BE INSTALLED ON CURB.
WHA-1	WATER HAMMER ARRESTOR	ZURN	Z1700	PC	PC	0"	0"	0"	0"	0"	0"	ZURN Z1700-100 THRU Z1700-300 AS NEEDED, SIZE AS RECOMMENDED BY MANUFACTURER. ALT: (WTS) SSA + SSB: (JRS 5005 THRU 5050).
YCO-1	YARD CLEANOUT - DRIVEWAYS	ZURN	Z1474-N	PC	PC	0"	0"	0"	0"	4"	0"	EXTRA HEAVY DUTY CAST IRON CLEANOUT, "C.O." CAST IN COVER, ABS PLUG, NEO-LOOCK OUTLET. ALT: (ZURN) Z1474-X-N. SEE PLAN FOR WASTE SIZE.

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FSR#05484

BUILDING TYPE / SIZE: P14 LS XPS
RELEASE: 23.09
PRINTED FOR
Plan Check - Rev 4

REVISION SCHEDULE

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PLUMBING SCHEDULES

SHEET NUMBER
P-601

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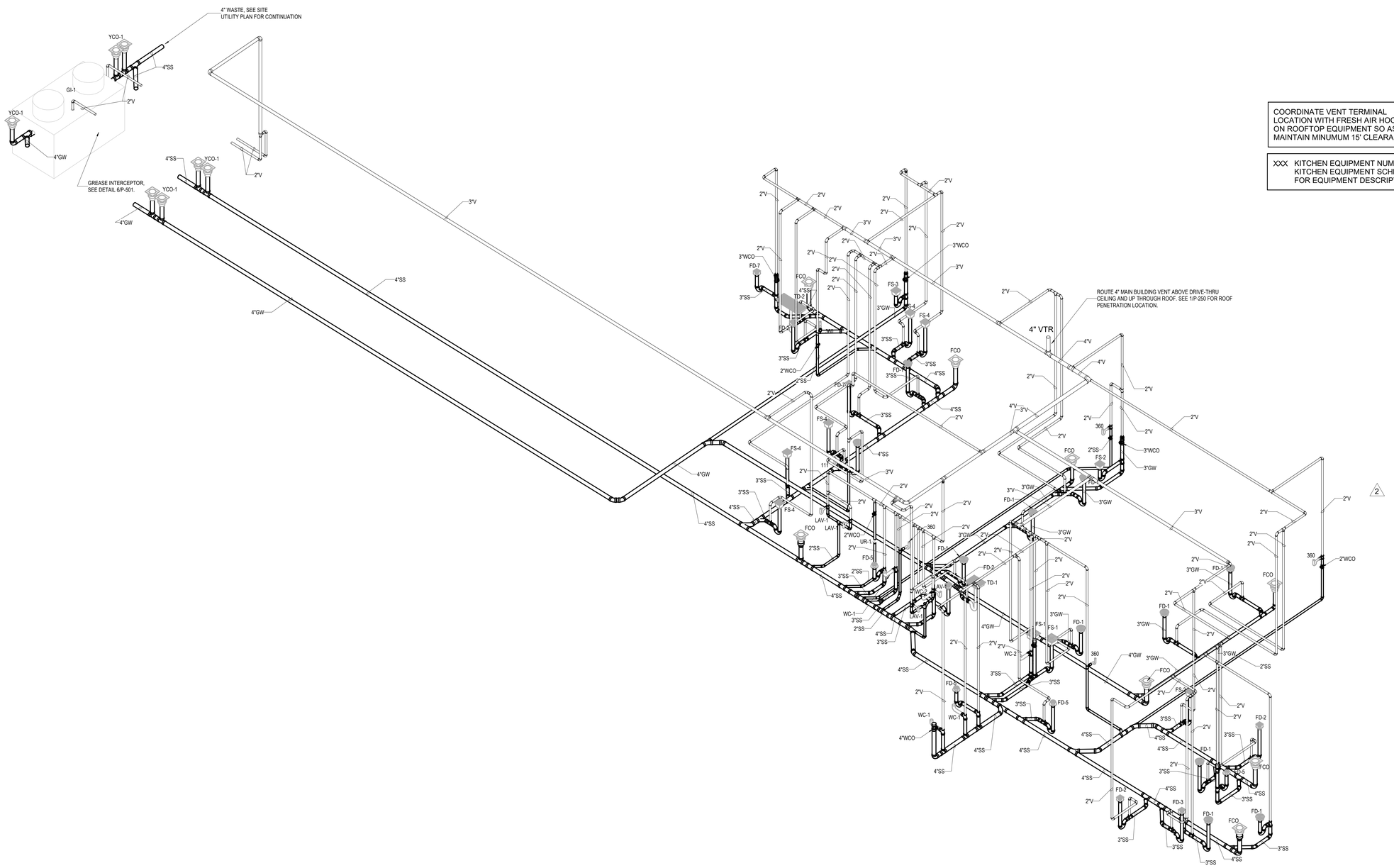
40-LS-05484-P-601-PLUMBING SCHEDULES



1 DRAIN, WASTE AND VENT ISOMETRIC

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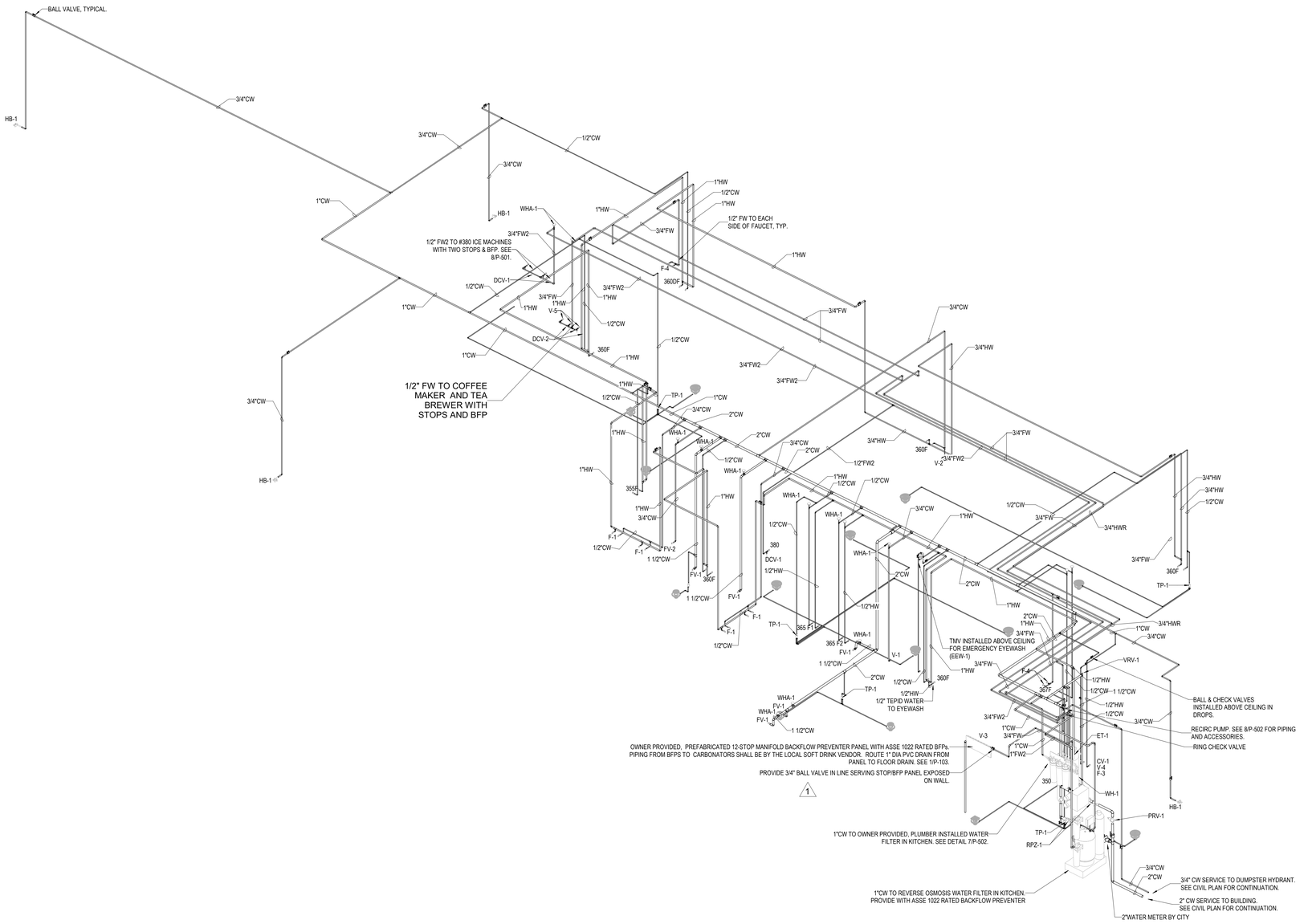

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ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	MTG HT AFF TO CL
	LIGHTING FIXTURES	
	SURFACE MOUNTED LIGHTING FIXTURE	
	RECESSED LED TROFFER LIGHTING FIXTURE	
	SURFACE MOUNTED LED LIGHTING FIXTURE	
	RECESSED LED LIGHTING FIXTURE	
	WALL MOUNTED LIGHTING FIXTURE, SEE LIGHTING FIXTURE SCHEDULE	AS NOTED
	WALL MOUNTED EXIT SIGN, SHADE INDICATES FACES, PROVIDE CHEVRON DIRECTIONALS WHEN NEEDED	6" FROM CEILING TO TOP
	CEILING MTD EXIT SIGN, SHADING INDICATES FACES, PROVIDE W/ CHEVRON DIRECTIONALS WHEN NEEDED	
	COMBO EXIT WITH TWO LAMPHEADS	
	WALL MTD EMERGENCY BATTERY PACK LIGHTING FIXTURE	AS NOTED
	CEILING MTD EMERGENCY BATTERY PACK LIGHTING FIXTURE	
	FLUORESCENT STRIP LIGHTING FIXTURE	
	WALLWASHER TYPE RECESSED DOWNLIGHT, AIM LIGHT TOWARD WALL	
	RECESSED LIGHTING FIXTURE W/ EMERGENCY BATTERY PACK	
	PENDANT LIGHTING FIXTURE	AS NOTED
	LIGHTING TRACK WITH TRACK HEADS	
	WIRING DEVICES	
	120 VOLT DUPLEX RECEPTACLE, 20 AMPS U.O.N.	14" UON
	120 VOLT QUADRAPLEX RECEPTACLE, 20 AMPS U.O.N.	14" UON
	120 VOLT SIMPLEX RECEPTACLE, 20 AMPS U.O.N.	14" UON
	SINGLE SPECIAL PURPOSE RECEPT W/ VOLTS, AMPS, & PHASE AS NOTED, NEMA CONFIGURATION AS REQUIRED BY EQUIP.	14" UON
	RECEPTACLE MOUNTED ON DROP CORD, 120 VOLT, 20 AMP, UON, OUTLET BOX FLUSH WITH CEILING	
$	SINGLE POLE TOGGLE SWITCH	48"
$2	DOUBLE POLE TOGGLE SWITCH	48"
$3	THREE WAY TOGGLE SWITCH	48"
$T	SWITCH WITH TIMER	48"
$M	MANUAL MOTOR STARTER SWITCH (WP=NEMA 3R)	48"
$P	SWITCH WITH PILOT LIGHT (ON WHEN SWITCH IS ON)	48"
$K	KEY OPERATED SWITCH	48"
OS OSH	OCCUPANCY SENSOR, CEILING/WALL MOUNTED	
OS	DAYLIGHT SENSOR, CEILING MOUNTED ⚠1	
	NOTE:- RECEPTACLES ON A DEDICATED CIRCUIT (THAT IS, NO OTHER LOAD CONNECTED TO THE BRANCH CIRCUIT) SHALL HAVE AMPACITY RATING NOT LESS THAN THE AMPERAGE OF THE CIRCUIT BREAKER SERVING THE DEVICE.	
	CONDUIT/RACEWAYS	
	CONDUIT CONCEALED ABOVE CEILNG OR IN WALL	
	CIRCUIT HOMERUN TO PANELBOARD W/ MIN 2#12, 1#12G, 3/4"C	
	CONDUIT TURNING UP	
	CONDUIT TURNING DOWN	
	CONDUIT CONCEALED IN OR BELOW SLAB (OR UNDERGROUND)	
	FLEXIBLE LIGHT FIXTURE WHIP; SIX FOOT MAXIMUM LENGTH	
MC	METAL CLAD CABLE ASSEMBLY - ONLY WHERE INDICATED ON DWGS OR SPECS	
	DISTRIBUTION EQUIPMENT	
	NON-FUSIBLE SAFETY SWITCH, SIZE AND TYPE AS NOTED ON PLANS (AMP/POLES/FUSE AMPS/ENCLOSURE) OR ON SCHEDULE. NEMA 1 ENCLOSURE UNLESS NOTED WP FOR NEMA 3R ENCLOSURE.	6'-6" *
	FUSIBLE SAFETY SWITCH, SIZE & TYPE AS NOTED ON PLANS (AMP/POLES/FUSE AMPS/ENCLOSURE) OR ON SCHEDULE. NEMA 1 ENCLOSURE UNLESS NOTED WP FOR NEMA 3R.	6'-6" *
	FLUSH MOUNTED (RECESSED) PANELBOARD	6'-6" *
	SURFACE MOUNTED PANELBOARD	6'-6" *
	* 6'-6" DISTANCE IS TO TOP-MOST DISCONNECTING DEVICE OR HIGHEST POSITION OF OPERATING HANDLE OF DISCONNECTING DEVICE	

SYMBOL	DESCRIPTION	MTG HT AFF TO CL
	MISCELLANEOUS SYMBOLS	
	GROUND	
M	MOTOR	
EF	EXHAUST FAN MOTOR	
J	JUNCTION BOX	
1	CONDUIT AND WIRE 'MARK' NUMBER, REFER TO CONDUCTORS AND CONDUIT SCHEDULE FOR SIZE	
101	KITCHEN EQUIPMENT 'MARK' NUMBER, REFER TO KITCHEN EQUIPMENT SCHEDULE FOR REQUIREMENTS	
1	NOTE NUMBER	
A	HOOD EXTINGUISHING FS PULL STATION	
D	SMOKE DETECTORS REMOTE STATUS INDICATOR W/ 1/2"C STUB-UP	
	PUSHBUTTON	
B	BELL, TYPE AS NOTED ON PLANS	
PE	PHOTO-ELECTRIC CELL	
T	TRANSFORMER / DRIVER	
S	LOCKABLE SINGLE POLE SWITCH	
S	CEILING MOUNTED AUDIO SPEAKER	
	ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR	
AFG	ABOVE FINISHED GRADE	
AHU	AIR HANDLING UNIT	
C	CONDUIT	
CL	CENTER-LINE	
CT	CONTACTOR	
EF	EXHAUST FAN	
FLA	FULL LOAD AMPS	
GF/GFI	GROUND FAULT CIRCUIT INTERRUPTER	
GND/ GRD	GROUND	
HT	HEIGHT	
IG	ISOLATED GRD, PROVIDE ORANGE DEVICE WHEN ADJACENT TO WIRING DEVICE	
MOCP	MAXIMUM OVER-CURRENT PROTECTION	
MUA	MAKE UP AIR UNIT	
NEC	LOCALLY ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70)	
NL	NIGHT LIGHT (ON 24 HOURS)	
OC	ON CENTER	
POS	POINT OF SALE EQUIPMENT	
RTU	ROOF TOP UNIT	
TB	TERMINAL BLOCK	
TL	TWIST-LOCK TYPE DEVICE	
TR	TAMPER-RESISTANT	
UON	UNLESS OTHERWISE NOTED	
WP	WEATHERPROOF (NEMA 3R)	
	TELEPHONE	
	TELEPHONE OUTLET	18" UON
	TELEPHONE OUTLET AT SPECIAL MOUNTING HEIGHT	60" UON
	NOTE: EACH TELEPHONE OUTLET (FLOOR OR WALL MOUNTED SHALL BE PROVIDED WITH A 3/4" EMPTY CONDUIT, WITH PULL WIRE, TO ACCESSIBLE CEILING SPACE.	
	CCTV / SECURITY SYSTEM	
K	SECURITY ALARM KEYPAD	

POWER PLAN GENERAL NOTES

A. ALL SECURITY, POS, MUSIC, COMMUNICATIONS, AND POWER ROUGH-IN SHALL BE INSTALLED DURING THE FRAMING/ROUGH-IN PHASE OF CONSTRUCTION.

B. REFER TO KITCHEN EQUIPMENT SHEETS FOR EQUIPMENT ELECTRICAL ROUGH-IN ELEVATIONS ABOVE FINISHED FLOOR.

C. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRING.

D. PROVIDE INSULATED BUSHING AT TERMINATION POINTS OF ALL CONDUITS FOR LOW VOLTAGE WIRING.

E. THE ELECTRICAL INSTALLER SHALL COORDINATE THE ROUTING OF ALL CONDUIT IN THE BUILDING WITH OTHER TRADES (SPECIFICALLY THE DUCTWORK INSTALLATION) TO AVOID CONFLICTS OF SPACE REQUIREMENTS IN WALLS AND CEILING SPACES.

SECTION C16100
ELECTRICAL GENERAL PROVISIONS

PART 1- GENERAL

1.01 WORK INCLUDED
A. Provide all materials, labor and equipment required to furnish and install a complete electrical system as indicated on drawings and as specified herein.

1.02 REGULATORY REQUIREMENTS
A. Equipment furnished shall be UL listed where such label is available. Installation shall conform to UL standards where applicable.

B. Electrical work shall be installed in accordance with drawings and specifications, NEC and NFPA codes in effect at project location, state and local electrical and building codes and special codes having jurisdiction over specific portions within complete installation.

C. Obtain permits and certificates of approval from all authorities having jurisdiction over the installation and pay all fees required.

1.03 SUBMITTALS
A. Submit list of materials and equipment prior to manufacture, order or installation and within twenty days after award of contract for approval. Include each item of material and equipment whether or not shop drawings are also required. List shall include name of manufacturer, catalog number and other complete identification as well as dimensions and detailed data. Submittals shall be included for the following:
1. Lighting Fixtures
2. Panelboards/Breakers
3. Wiring Devices and Device Plates
4. Enclosed Switches

B. Certified shop drawings and submittals shall bear stamp of approval of contractor as evidence that drawings have been checked. Drawings submitted without this stamp of approval will not be considered and will be returned for proper resubmission.

C. If submittals show variances or substitutions from requirements of contract, contractor shall make specific mention of such variation in his letter of transmittal in order that, if acceptable, suitable action may be taken for proper adjustment. Otherwise contractor shall not be relieved of responsibility for executing work in accordance with contract even though such submittals have been approved.

1.04 SITE VISIT
A. Visit job site prior to bid date to determine actual conditions under which work shall be done, to familiarize oneself with project and to verify total scope of work required. Failure to do so shall not constitute a reason for an extra charge.

SECTION C16101
BASIC MATERIALS AND METHODS

PART 1 - GENERAL

1.01 COORDINATION
A. Obtain and review shop drawings, product data, and manufacturer's instructions for equipment furnished under other sections to determine connection locations and requirements.

B. Sequence rough-in of electrical connections to coordinate with installation and start-up of equipment furnished under other sections.

PART 2 - PRODUCTS

2.01 SUBSTITUTIONS
A. Where specifications list one or more manufacturers and do not include "or approved equal", furnish materials made by one of manufacturers listed. Where "or approved equal" is included, contractor may substitute equal products by another manufacturer subject to approval by engineer and owner.

PART 3 - EXECUTION

3.01 INSTALLATION
A. Make electrical connections to utilization equipment in accordance with equipment manufacturer's instructions.

B. Drawings are diagramatic and shall not be scaled for exact sizes or locations, they are not intended to disclose absolute or unconditional knowledge of actual field conditions.

C. Protect work and materials from damage by weather, entrance of water and dirt. Cap conduit during installation. Avoid damage to materials and equipment in place.

D. Satisfactorily repair or remove and replace damaged work with new materials. Deliver equipment and materials to job site in original, unopened, labeled containers. Store ferrous materials to prevent rusting. Store finished materials and equipment to prevent staining and discoloring.

E. Trenches shall be excavated 6" below elevation of bottom of conduit.

F. Failure to route conduit through building without interfering with other equipment and construction shall not constitute a reason for an extra charge. Equipment, conduit and fixtures shall fit into available spaces in building and shall not be introduced into building at such times and manner as to cause damage to structure. Equipment requiring service shall be readily accessible.

3.02 TESTING AND EQUIPMENT SERVICING
A. Make test to ensure that entire system is in proper operating condition, and that adjustments and apparatus setting of circuit breakers, fuses, control equipment and apparatus have been made. Correct defects discovered during tests.

3.03 REMOVAL OF DEBRIS
A. Remove surplus materials and debris caused by, or incidental to, electrical work. Remove such debris at frequent intervals. Keep job clean during construction.

3.04 IDENTIFICATION OF EQUIPMENT
A. Identify electrical distribution equipment, disconnects, and contactors with black laminated plastic name-plates, attached with two screws, engraved with 1/4" high, white letters.

3.05 TEMPORARY LIGHTING AND POWER IN AREAS OF CONSTRUCTION
A. Provide, maintain and remove after construction is completed, temporary lighting adequate for workman safety and temporary power for all trades including any 3 phase power required.

B. Provide and maintain barricade lighting where required to adequately protect owner against liability for damage to public or personnel. All lamps used in barricade shall be 60 watt red, installed in weatherproof socket with wire guard. All wiring shall be approved for weatherproof installation.

3.06 GUARANTEE-WARRANTY
A. Guarantee work to be free from defects of materials and workmanship for a period of one year from date of final acceptance of building. Repair and replace defective work and other work damaged thereby which becomes defective during term of guarantee-warranty. Furnish owner with three written copies of guarantee-warranty.

SECTION C16120
RACEWAYS AND CONDUIT SYSTEMS

PART 1 - PRODUCTS

1.01 ACCEPTABLE MANUFACTURERS
A. Rigid IMC, and EMT conduit shall be hot-dipped, galvanized, or electro-galvanized steel by Allied, Republic, Triangle, Wheatland, or approved equal.

B. PVC conduit shall be Carlon, schedule 40, 90 degrees C. rated, unless otherwise noted.

C. MC cable shall be manufactured by AFC Cable Systems or approved equal. Type "AC-90" is not allowed. All MC Cables shall have a green equipment ground conductor and an additional isolated ground (green + yellow stripe) conductor for isolated ground circuits (POS system). Fittings used for connecting MC cable to boxes, cabinets, or other equipment shall be listed and identified for such use.

D. Associated couplings, connectors and fittings shall be steel as manufactured by Raco or equivalent. Catalog numbers used below are those of Raco.

E. Erickson Couplings, Series 1502, shall be used where neither length of conduit can be rotated.

F. Insulated bushings shall be series 1402.

G. EMT box connectors shall be compression or set-screw fittings.

H. Conduit, connectors, couplings and fittings shall be UL listed and labeled.

1.02 ELECTRICAL METALLIC TUBING (EMT)
A. Use Electrical Metallic Tubing (EMT) where drawings call for conduit to be:
1. Concealed in walls.
2. Installed above suspended ceilings.
3. Installed exposed, above 6 feet.
4. Installed for panelboard feeders above slab.

1.03 INTERMEDIATE METAL CONDUIT (IMC)
A. Use Intermediate Metal Conduit (IMC) where drawings call for conduit to be:
1. Installed for panelboard feeders ran below ground.
2. Installed in wet locations (interior and exterior).
3. Installed exposed below 6 feet.

1.04 POLYVINYL CHLORIDE (PVC) RACEWAY
A. Use PVC raceway for:
1. Underground service entrance conduits for telephone and power.
2. Exterior branch circuits installed underground.
3. Interior branch circuit conduits installed in or under concrete slab on ground floor.

1.05 RIGID STEEL CONDUIT (RSC)
A. Use Rigid Steel Conduit for:
1. Install underground for power Service Entrance elbows penetrating floor slab.
2. Exposed to physical damage.

1.06 FLEXIBLE METAL CONDUIT
A. Provide flexible metal conduit for termination at equipment subject to motion and vibration.

B. Length shall not exceed 6 feet in accessible ceiling areas.

C. Shall not be concealed in walls.

D. Where exposed to continuous or intermittent moisture, conduit shall be UL Type EF liquidtight or type as indicated.

E. For connection to ceiling mounted lighting fixtures from outlet boxes.

1.07 MC (METAL-CLAD) CABLE
A. MC Cable shall be UL listed per standard 1569, color coded copper conductors (type THHN), the sheathing shall be constructed of interlocking galvanized steel, and shall conform to the requirements of Article 330 of the National Electrical Code.

B. MC Cable with an isolated grounding conductor shall be used, concealed above ceiling and in walls, for the connection of the Point Of Sales (POS) system equipment from the isolated ground receptacles to the panelboard serving the POS loads when allowed by local codes and Article 330 of the National Electrical Code.

C. MC Cable may be used when allowed by local codes and Article 330 of the National Electrical Code for branch circuits (except the main homerun to the panelboard which shall be conduit with conductors) for the following:
1. Lighting
2. Dining area receptacles
3. Fly Lights
4. Building mounted signage
5. Office area receptacles

D. MC Cable shall not be used for branch circuits serving Kitchen Equipment Items and similar circuits in the Kitchen, the Drive-Thru area, and the Serving area's back counter.

PART 2 - EXECUTION

2.01 INSTALLATION
A. Minimum size of conduits shall be 1/2 inch.

B. Run concealed conduits in direct line with long sweep bends or offsets. Run exposed conduits parallel to and at right angles to building lines. Group multiple conduit runs in banks.

C. Cap ends of conduits to prevent entrance of water and other foreign material during construction.

D. Provide No. 12 AWG copper pull wires or nylon cord in all empty conduits. Steel wire not acceptable as pull wire.

E. Where IMC enters a cabinet, junction box, or pull box conductors shall be protected by an insulated bushing. Locknuts shall be installed on conduit outside and inside enclosure.

F. In areas where enclosed and gasketed fixtures and weatherproof devices are specified, where Rigid Conduit enters a sheet metal enclosure, junction box and outlet box, and not terminated in a threaded hub, a steel, or malleable iron nylon insulated hub, complete with recessed sealing "O"ring or sealing locknut shall be used.

G. Provide seal-off fitting in all conduits entering a cold temperature area such as freezers and dry refrigerators.

H. In concrete slabs, block up conduit from forms and securely fasten in place. all conduits in slabs shall have a minimum of 4" inches concrete coverage above.

I. Failure to route conduit through building without interfering with other equipment, and construction shall not constitute a reason for an extra charge. Equipment, conduit, and fixtures shall fit into available spaces in building and shall not be introduced into building at such times and manner as to cause damage to structure or equipment. Equipment requiring servicing shall be readily accessible.

2.02 EMT (ELECTRICAL METALLIC TUBING) RACEWAY
A. Do not use Electrical Metallic Tubing in cinder concrete or cinder fill or where conduit system is in contact with dissimilar metals or in wet locations.

2.03 PVC RACEWAY
A Use threaded fittings for all connectors and adapters.

B. Provide 1/4-inch nylon pull rope in all primary power and incoming telephone service entrance conduits.

C. PVC conduit shall convert to galvanized rigid metal per detail on drawings.

2.04 FLEXIBLE METAL CONDUIT
A. Where fittings for liquid tight flexible conduit are brought into an enclosure with a knock-out, a gasket assembly, consisting of one piece "O" ring, with Buna-N sealing material, series 3400, shall be installed on outside of box. Fittings shall be made of either steel or malleable iron only, and shall have insulated throats or insulated bushings.

B. In dry locations, where final connections to motors and other equipment may be made with Flexible Metal Conduit, fittings shall be of steel or malleable iron only with insulated throats or insulated bushings, and shall be of wedge and screw type having an angular wedge fitting between convolutions of conduit.

2.05 MC CABLE
A. MC Cable may be used for branch circuits as noted in Part 1 above and where the local code allows use of MC Cable. The installation shall conform to Article 330 of the National Electrical Code and shall be concealed in walls and above ceilings. (Exposed MC Cable will not be acceptable.)

B. MC Cables shall be secured and supported by the building structure per the National Electrical Code and any local code requirements. MC Cable shall not lay on ceilings.

SECTION C16121
CONDUCTORS

PART 1 - PRODUCTS

1.01 CONDUCTORS
A. Provide 98% conductivity copper conductors with 600-volt insulation. For conductors No. 12 AWG and No. 10 AWG, provide solid type. For all conductors No. 8 AWG and larger, provide stranded type. All conductors shall have THHN/THWN insulation unless noted otherwise.

B. Conductors shall be manufactured by Triangle, American, Rome, Southwire or approved equal.

C. Provide No. 14 AWG type THHN fixture conductors, for conductors entering lighting fixtures.

D. Branch circuit conductors shall be minimum #12 AWG, copper.

PART 2 - EXECUTION

2.01 INSTALLATION
A. Install pull boxes in circuits or feeders over 100 feet long.

B. Make all splices or connections only at outlet, pull or junction boxes.

C. All conductors and connections shall test free of grounds, shorts, and opens prior to energizing circuit.

D. Provide No. 10 wire in lieu of No. 12 wire for any branch circuit in excess of 100 feet linear length to prevent excessive voltage drop.

E. Use Ideal wing nuts, Scotchlok Type Y, R, G, or B, or approved equivalent connectors for fixture connections at outlet boxes.

F. Make feeder taps and joints with OZ Type T, PT, PM or PTS, or approved equivalent clamp connectors as manufactured by Kupler, or with approved compression sleeves. Wrap connectors with No. 10 Electro-Seal or approved equivalent plastic filler and vinyl tape.

G. Leave a minimum of 8" slack wire in every outlet box.

H. Provide color coded wire and with a different color for each phase and neutral and ground as follows: Phase A, B, C: Black, Red and Blue respectively; Neutral: White; Isolated Ground: Green with Yellow Stripes. Approved color tape is acceptable for feeders using larger than #6 conductors.

I. All conductors shall be continuous from origin to panel or equipment termination without splices where possible. Where splices and taps are necessary or are required, they shall be made in splice boxes with suitable connectors.

J. Tighten all electrical connectors and terminals, including screws and bolts, in accordance with manufacturer's published torque tightening values. Where manufacturer's torquing requirements are not indicated,tighten connectors and terminals to comply with tightening torques specified in UL486A and UL486B.

SECTION C16122
OUTLET AND JUNCTION BOXES

PART 1 - GENERAL

1.01 PROJECT CONDITIONS
A. Verify field measurements are as shown on drawings.

B. Verify locations of floor boxes and outlets in work areas prior to rough-in.

PART 2 - PRODUCTS

2.01 OUTLET BOXES

A. Sheet metal outlet boxes: galvanized steel.

B. Cast boxes: type FS, cast feralloy. Provide gasketed cover by box manufacturer.

C. Manufacturers: National, Appleton, General Electric, RACO, or Steel City.

D. Provide boxes for fixtures with fixture studs in center.

E. Outlet boxes for lighting, switches and receptacles in interior areas with exposed conduit shall be pressed steel and in exterior areas with exposed conduit shall be cast metal with threaded hubs, "FS" type. Use galvanized steel for concealed boxes. Boxes shall be 1-1/2" deep minimum.

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FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
PRINTED FOR
PLAN CHECK - REV 4

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	07/11/2024	Plan Check - Rev 1
2	08/19/2025	CITY SUBMITTAL/CLIENT REVISIONS

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THIS SET HAS BEEN APPROVED
PLANS MUST BE POSTED ON JOB SITE
AT ALL TIMES

CONSULTANT PROJECT # 230392
DATE 01/30/24
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SHEET
GENERAL NOTES, LEGENDS, AND SPECIFICATIONS

SHEET NUMBER
E-001P

11/12/2025 8:44:10 PM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_ELE.rvt
50-LS-05484-E-001P-GENERAL NOTES, LEGENDS, AND SPECIFICATIONS

2.02 PULL AND JUNCTION BOXES
A. Sheet metal boxes: galvanized steel.

B. Surface-mounted cast metal box: type 4; flat-flanged, surface-mounted junction box.
1. Material: galvanized cast iron.
2. Cover: furnish with ground flange, neoprene gasket, and stainless steel cover screws.

C. In-ground cast metal box: inside flanged, recessed cover box for flush mounting.
1. Material: galvanized cast iron.
2. Cover: nonskid cover with neoprene gasket and stainless steel cover screws.
3. Cover legend: electric.

D. Manufacturers: National, Appleton, General Electric, RACO, Oz-Gedney or Steel City.

PART 3 - EXECUTION

3.01 INSTALLATION
A. Install electrical boxes as shown on drawings, and as required for splices, taps, wire pulling, equipment connections and compliance with regulatory requirements.

B. Install pull boxes and junction boxes above accessible ceilings.

C. Inaccessible ceiling areas: Install outlet and junction boxes no more than 6 inches from ceiling access panel or from removable recessed light fixture.

D. Use flush mounting outlet boxes in finished areas.

E. Use stamped steel bridges to fasten flush mounting outlet box between studs.

F. Install flush mounted box without damaging wall insulation or reducing its effectiveness.

G. Use adjustable steel channel fasteners for hung ceiling outlet box.

H. Do not fasten boxes to ceiling support wires.

I. Support boxes independently of conduit, except cast box that is connected to two Rigid Metal Conduits both supported within 12 inches of box.

J. Use gang box where more than one device is mounted together. Do not use sectional box.

K. Use gang box with plaster ring for single device outlets.

L. Use cast outlet box in exterior locations and wet locations.

3.02 OUTLET BOXES
A. Select boxes according to intended use and type of outlet. Ceiling outlet boxes shall be 4" octagon and 1-1/2" deep. Use 2-1/8" deep octagon boxes or 4" square boxes required. All ceiling outlet boxes shall have a fixture stud of no bolt self-locking type installed if required to hang the fixture specified at the outlet.

3.03 JUNCTION BOXES
A. Junction boxes shall be sized according to number of conductors in box or type of service to be provided. Minimum junction box size 4-11/16" square and 2-1/8" deep. Provide screw covers for junction boxes.

B. Use code gauge steel with screw covers for pull boxes with prime coat and provide with screw cover. Size pull boxes according to the NEC.

C. Provide pull box every 100 feet of conduit run or where excessive number of bends necessitates a box for ease of wire installation.

SECTION C16123
GROUNDING AND BONDING

PART 1 - PRODUCTS

1.01 ROD ELECTRODES
A. Material: copper-clad steel.

B. Diameter: 3/4 inch.

C. Length: 10 feet.

1.02 MECHANICAL CONNECTORS
A. Material: bronze.

1.03 GROUNDING CONDUCTOR (WIRE)
A. Material: stranded copper, sized to meet NFPA 70, Article 250 requirements.

PART 2 - EXECUTION

2.01 INSTALLATION
A. Install rod electrodes at locations indicated. Install additional rod electrodes as required to achieve resistance to ground of less than 25 ohms.

B. Provide grounding electrode conductor and connect to reinforcing steel in foundation footing.

C. Provide bonding to meet regulatory requirements.

D. Bond together each metallic raceway, pipe, duct and other metal objects.

E. Provide isolated grounding conductor for circuits supplying all isolated ground outlets. Insulation shall be green with yellow stripe. Size per NEC Table 250.66. This isolated grounding conductor shall run in addition to equipment grounding conductor and along with the branch circuit conductors.

2.02 GROUNDING
A. Ground electrical system in accordance with NEC Article 250 and local authorities having jurisdiction.

B. Install a #3/0 bare copper wire bond across the water meter attached to ground clamps on water line on each side of meter. Arrangements shall be made to do this work at the time the water meter is installed.

C. From the point of entrance of the water main into the building and on the meter side of the main inside water valve and union install a stranded copper cable #3/0 in 1-1/4" conduit to the main distribution panel. Connect the cable to the equipment ground bus.

D. Install a green equipment grounding conductor in each raceway, sized per NEC Table 250-122. Terminate on equipment ground bus within panelboard serving load.

E. Install #6 awg copper grounding conductor from ground bar in main telephone box to inter system bonding termination to grounded neutral bus in main distribution panel.

F. All separate grounding electrode conductors shall be bonded together to limit potential differences between them and between their associated wiring systems. This includes the power system, telephone system, etc.

2.03 FIELD QUALITY CONTROL
A. Inspect grounding and bonding system conductors and connections for tightness and proper installation.

SECTION C16124
SUPPORTING DEVICES AND HANGERS

PART 1 - PRODUCTS

1.01 ACCEPTABLE MANUFACTURERS
A. Supporting devices and hangers shall be manufactured by RACO Fasteners, or approved equivalent.

PART 2 - EXECUTION

2.01 INSTALLATION
A. Secure conduits to within 3' of each outlet box, junction box, cabinet, fitting, etc., and at intervals not to exceed ten feet (10') and in accordance with the National Electric Code. In seismic zones, support conduits 1" and under at 6' intervals.

B. Install clamps secured to structure for feeder and other conduits routed against the structure. Use drop rods and hangers or racks to support conduits run apart from the structure.

C. Provide and install suitable angle iron, channel iron or steel metal framing with accessories to support or brace electrical equipment including safety switches, fixtures, panelboards, etc.

D. Use of chains, perforated iron, baling wire, or tie wire for supporting conduit runs is not permitted.

E. For support of low voltage wiring not required to be in conduit, bundle cables together in a neat manner using approved nylon tie wraps. Bundled cables shall be supported with "J" hooks on telephone type bridle rings, a minimum of 6 feet on centers. Clearly identify all differing types of cables being run and tag with tape tags regarding telephone, POS System, music / communication, security, etc. for various system utilizing said cable. Identification tape shall be provided at minimum intervals of 25 feet on center and within each building space.

F. Provide a system of supporting devices and hangers to insure secure support or bracing for conduit, electrical equipment, including safety switches, fixtures, panelboards, outlet boxes, junction boxes, cabinets, etc.

SECTION C16140
WIRING DEVICES AND PLATES

PART 1 - PRODUCTS

1.01 WALL SWITCHES
A. Ratings: 20 amps, 120/277 volts a.c. or as identified on drawings.

B. Devices: (Cooper/Arrow Hart catalog numbers are listed unless noted otherwise):
1. Single pole toggle switches: 20 AMP device - #AH1221-GY (Kitchen) or #AH1221-B (Dining) 20 AMP Pilot lights illuminated with load on - #AH1221-PL

2. Double pole toggle switches: 20 AMP device - #AH1222-GY (Kitchen) or #AH1222-B (Dining)

3. Three-way toggle switches: 20 AMP device - #AH1223- GY (Kitchen) or #AH1223-B (Dining)

1.02 RECEPTACLES
A. Devices: (Cooper/Arrow Hart catalog numbers are listed unless otherwise noted):
1. Specification grade devices to be 20 amp, 125 volts, a.c. receptacles:
a. Single (simplex) device: #1877-GY (Kit) or #1877-B (Dining)
b. Duplex device: #CR20-GY (Kitchen) of #CR20-B (Dining)
c. Tamper resistant duplex device: #TRCR20-B or #TR7756-B (with USB charging)
d. GF (ground-fault circuit interrupter) duplex device: #VGF20-GY (Kitchen) or #VGF20-B (Dining)
e. IG (isolated ground) duplex device: #IG5362-RN (orange face)

B. Color:
1. Devices mounted in the FRP or tile shall be gray.
2. Devices mounted in wood finish shall be brown.
3. Isolated ground receptacles shall be orange.

1.03 SPECIAL DEVICES
A. Manual motor starter switch: SQ. D Class 2510, Type F, for use on motors up to 3/4 horsepower. Provide NEMA 1 enclosure in dry locations; provide NEMA 3R enclosure in wet or exterior locations.

1.04 WALL PLATES
A. Provide blank plates on all outlet boxes for future outlets, or outlets without devices. Plate style shall match device plates.

B. Provide non-metallic weatherproof covers for duplex GF receptacles located outside or in wet locations that feature 'while-in-use' cover equivalent to Arrow Hart #WIU-1.

C. Where devices installed in exposed boxes or conduit fittings; provide properly designed plates and covers equal to Arrow Hart RS-Series exposed work covers.

D. Install galvanized steel plates on outlet boxes and junction boxes in unfinished areas, above accessible ceilings, and on surface mounted boxes.

E. Color:
1. Wall plates mounted in FRP or tile shall be smooth satin stainless steel 302-ss series.
2. Wall plates mounted in wood finish shall be brown nylon plastic.
3. Isolated ground wall plates shall be orange nylon plastic with a circuit number printed in 3/16 inch black lettering on clear adhesive label adhered to plate.

PART 2 - EXECUTION

2.01 INSTALLATION

A. Mounting
1. Mount switches and receptacles at height above finished floor as indicated on plans, and legend.
2. Mount switches on strike side of door maximum 8" from door frame. Outlet box for switch shall be located clear of door frame. Coordinate with architectural plans prior to rough-in.
3. Install switches with off position down.
4. Do not use the feed thru feature for the GF Type receptacle, unless required by the plans.
5. Use jumbo sized plates for outlets installed in masonry walls.
6. Each receptacle shall be provided with a #12 green grounding jumper between the ground terminal of the receptacle and the outlet box.
7. The grounding conductor to each receptacle shall be installed such that the removal of the device will not interfere with the continuity of the ground.

B. Testing
1. Test each switch and verify proper operation with energized circuit.
2. Test each receptacle for proper polarity on energized circuit.
3. Test each GF receptacle with a GF receptacle tester and verify circuit is opened by GF device at milli-ampere ranges established by the manufacturer.

SECTION C16440
PANELBOARDS

PART 1 - PRODUCTS

1.01 MANUFACTURER (via Chick-fil-A National Accounts Program)
A. Square-D (for all Regions): Refer to General Sheets (G-Sheets) for Chick-fil-A National Accounts Program Contact Information.

1.02 PANELBOARD FEATURES
A. Panelboards shall have a minimum symmetrical interrupting rating to meet or exceed the available symmetrical interrupting fault current at the device intended to interrupt current.

B. Bus bars shall be copper.

C. Provide factory-installed copper ground bus in each panelboard with lugs or connectors on bar.

D. Provide electrically isolated, factory installed, neutral bus in each 3 phase, 4 wire or 1 phase 3 wire panelboard.

E. In addition to the ground bus required by paragraph 1.02D (above), provide factory installed, electrically isolated, copper ground bus in each panelboard serving isolated ground receptacles.

F. Main lugs and main circuit breaker lugs shall be UL Listed for use with both aluminum and copper conductors.

G. Provide panelboard doors with chrome-plated locks and catches. All locks shall be keyed alike. Provide two keys for each lock.

H. Provide thermal-magnetic circuit breakers which are rated for 40 degrees C ambient temperature. Breakers shall be quick-make, quick-break type trip with trip indication shown by handle position other than on or off. Multi-pole breakers shall have a common trip handle. Tandem type circuit breakers shall not be permitted.

I. MDP 100% rated main breaker, 1200 Amps or higher, shall be equipped with Arc Flash Maintenance Setting switch for use as a temporary arc-flash incident energy reduction device during maintenance activities.

J. Provide typed directory card with clear holder for each panelboard.

PART 2 - EXECUTION

2.01 INSTALLATION
A. Panelboards shall be mounted at height above finished floor such that the height of the top-most breaker in the panel is not more than 6-1/2 feet above finished floor in its highest position per the NEC.

B. Where multiple panelboards are installed on walls in common areas of buildings, the panelboards shall be installed with the top of all panelboards at the same height.

C. Provide blank filler plates over all unused spaces in panelboards.

D. A typed directory card shall indicate devices being served and the space name where the device is located.

E. Provide minimum of one (1) 3/4" empty spare conduit for every 3 poles of spare breaker or space in the panelboard. Stub conduit to nearest accessible ceiling space. Label conduit as spare at panelboard and termination point.

F. Non-isolated ground bars shall be grounded to panelboard can and main service entrance ground bus with a code sized grounding conductor installed in the same conduit as the phase and neutral conductors.

G. Circuits using a common neutral shall be installed in accordance with the National Electrical Code.

H. Inspect each panelboard for proper installation, physical damage, tightness and installation of overcurrent devices. Verify proper color coding of conductors. Correct or repair all items found in inspection.

I. Neutral wires, ground wires, and isolated ground wires shall be connected to the appropriate panel bus bar. Do not mix bus wire connections.

SECTION C16441
ENCLOSED SWITCHES
PART 1 - PRODUCTS

1.01 MANUFACTURERS
A. Square D
B. GE / ABB
C. Siemens

1.02 ENCLOSED SWITCHES
A. Nonfusible switch assemblies: NEMA KS 1, General Duty Type for 208 volt load interrupter enclosed knife switch with externally operable handle interlocked to prevent opening front cover with switch in on position. Handle lockable in off position. Provide equipment ground lug in each switch.

B. Enclosures: NEMA KS 1.
1. Interior dry locations: Type 1.
2. Exterior locations: Type 3R.

SECTION C16442
UTILITY SERVICE ENTRANCE AND DISTRIBUTION SYSTEM

PART 1 - GENERAL

1.01 SYSTEM DESCRIPTION
A. The underground electrical system service characteristics shall be 208Y/120 volts, Three Phase, Four Wire service and shall extend from utility company transformer secondary.

B. Metering of electrical usage shall be located as required by local electrical utility company. Coordinate requirements with local utility company.

C. Distribution system originates at secondary of utility transformer and includes service entrance conduit and conductors, distribution equipment, lighting panelboards, utilization equipment, overcurrent devices, disconnecting means, controls, branch and feeder circuits, etc.

PART 2 - PRODUCTS

2.01 MATERIALS
A. Furnish service entrance conduit, cable, and miscellaneous hardware as required by plans and specifications for electrical service entrance and system grounding at main electrical service.

PART 3 - EXECUTION

3.01 EXAMINATION AND PREPARATION
A. Coordinate exact locations of electrical service utility transformer, metering equipment, service lateral, etc. prior to commencement of installation. Contact engineer with conflicts prior to bid.

B. Ensure pad mounted transformer is not located within roadway or sidewalk.

C. Coordinate with local electrical utility for all utility company requirements and provide for the following items and any others required by the utility:
1. Concrete pad for utility transformer with required dimensions and details.
2. Primary underground conduit, excavation, and backfill requirements.
3. Pay for all fees associated with establishment of electrical service.
4. Furnish list of loads to the electrical utility company serving the facility.
5. Verify that utility company clearances are provided on all sides of utility equipment.

D. Ensure proper access to utility equipment is maintained.

E. Provide pull rope, excavation in accordance with electrical utility company requirements, backfill and concrete envelope for primary in accordance with electrical utility company requirements. Turn conduits up riser pole as required. Cap spare conduits 12 inches above grade with plumbers pipe cap.

F. Provide secondary lugs on utility transformer and perform drilling and installation of lugs in accordance with utility requirements. Type of lugs shall be in accordance with electrical utility company requirements. Connect service conductor to transformer secondary lugs as directed by electrical utility.

SECTION C16500
LIGHTING FIXTURES (LUMINAIRES)

PART 1 - GENERAL

1.01 ACCEPTABLE MANUFACTURERS AND VENDORS
A. Lighting fixtures indicated on lighting fixture schedule are to be purchased from the National Account Vendor. Refer to General Sheets (G-Sheets) for Chick-fil-A National Accounts Program Contact Information.

B. Lamps to be Osram-Sylvania and will typically be provided with the luminaire by the lighting manufacturer.

1.02 FIXTURE REQUIREMENTS
A. Provide regulating, HPF ballasts in all HID lighting fixtures. HID lamp types shall be as indicated on the drawings.

B. Recessed fluorescent lighting fixture ballasts shall be provided with integral thermal protection.

C. Provide energy-saving Instant or Rapid Start lamps for all fluorescent fixtures.

D. All lamps and ballasts shall meet or exceed the requirements of the National Energy Policy Act of 1992 and any other applicable Codes or Criteria.

E. All components of recessed fixtures shall be accessible without disturbing fixture in or on ceiling.

F. Energy saving ballasts and energy saving lamps provided shall be compatable for operation together.

G. Exterior fixtures and poles shall be suitable for exterior use, shall be UL Listed, and shall be a standard design for exterior application.

H. Exterior poles for fixtures with luminaires installed shall be designed for maximum constant velocity wind load with luminaires installed, applicable to the geographic area.

1.03 CONTROLS
A. Lighting contactors shall be Square-D, GE / ABB, Cutler-Hammer or Siemens of types and quantity shown on drawings, except those furnished with the switchgear as part of the National Account Program by Suncoast Environmental Controls (SEC).

1.04 EMERGENCY LIGHTING UNITS
A. Batteries shall supply emergency power for lighting with minimum operating time of 1-1/2 hours.

B. Emergency lighting shall be automatically operational upon normal utility power failure.

PART 3 - EXECUTION

3.01 INSTALLATION
A. Lighting fixtures shall be structurally supported. Fluorescent fixtures mounted in suspended ceilings shall be supported by and attached to ceiling system as required by NEC Article 410. In addition, fluorescent troffers shall be supported at two opposite corners to building structure.

B. Recessed fixtures in dropped ceiling areas shall be connected to power source using flexible conduit. Flexible conduit shall contain a separate insulated green No. 12 copper ground wire. Flexible conduit shall be connected to junction box and fixture. Green ground wire shall provide ground continuity between conduit system and fixture. Grounding conductors shall be permanently and mechanically connected between fixture and conduit system so as to be electrically continuous.

C. Fixtures surface mounted on exposed tee bar ceilings shall use grip clamps on tee bars to support fixtures.

D. Wire shall be continuous from splice in outlet box of building wiring system to lamp socket or ballast terminals.

E. Maintain the integrity of enclosures on enclosed and gasketed fixtures. Minimize the number of enclosure penetrations and make such penetrations water and dust tight with appropriate gaskets and fittings.

F. Concrete bases shall be provided for all exterior ground mounted or pole mounted fixtures.

G. Install accessories furnished with each fixture.

H. Wiring from pole bases to pole mounted luminaire shall be No. 12 with fuse protection provided by a 30 amp, 600 volt waterproof fuseholder with Bussman 'Limitron' fuse of ampere rating 3 times the load current.

I. Surface and recessed fixtures on or in plastered or drywall ceilings shall be supported by support channels. Support channels shall span across main support channels and shall not depend upon ceilings for support.

3.02 FIELD QUALITY CONTROL
A. Relamp fixtures that have failed lamps at substantial completion.

SECTION C16596
SPECIAL SYSTEMS

PART 1 - GENERAL

1.01 WORK INCLUDED
A. Furnish and install raceway system for music / communications security, CCTV, POS, and other owner-furnished systems, consisting of empty conduits, junction boxes, outlet boxes, and device plates, etc., as specified and shown on owner selected vendor wiring schematics. Cable, equipment, and installation of the interior system will be provided by the owner's system vendor.

B. Interior system equipment will be furnished by Owner's Vendor.

C. Install special backboxes furnished by Owner's Vendor. Coordinate with the Vendor for the installation. Coordinate with the Vendor if backboxes are to be contractor provided in order to provide and install the appropriate item for the Vendor.

PART 2 - PRODUCTS

2.01 MATERIALS
A. Provide 4-11/16" square boxes, with plaster rings. Provide device plates for system outlets as specified in Section 16141. Provide separate conduit to nearest accessible ceiling space from each outlet.

B. Minimum conduit size shall be 3/4".

C. Provide lightning arrester for telephone service entrance at main telephone backboard in accordance with UL96A paragraph 11.2 and NFPA 780.

D. Cable shall be in conduit where installed in walls or above inaccessible ceiling spaces.

PART 3 - EXECUTION

3.01 INSTALLATION
A. Provide one #10 equivalent nylon pull wire in each empty telephone conduit.

B. Provide trenching, backfilling, etc., for installation of service entrance conduit in accordance with other divisions, plans, and telephone utility requirements. Provide pull wire in empty conduit.

C. Coordinate with the local utility for point of service and type of service required. Pay for any utility company charges and fees for establishment of service.

D. Provide a complete raceway system in accordance with telephone utility company and interior system vendor/utility requirements. Telephone utility company and interior system vendor shall review the drawings. Contractor shall provide for any additional or varying requirements.

E. Terminate each conduit stub-up or termination with nylon insulated bushings.

F. Final connections and testing of system will be provided by the system vendor. Contractor shall contact the owner and vendor and schedule the work.

CLOSE OUT DOCUMENT REQUIREMENTS

Provide the following to the building owner upon completion of construction:

1. Submittal data stating equipment rating and selected options for each piece of equipment requiring maintenance.
2. Operation manuals and maintenance manuals for each piece of equipment requiring maintenance. Required routine maintenance actions shall be clearly identified.
3. Names and addresses of at least one qualified service agency.
4. A complete narrative of how each system is intended to operate.

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FSR#05484
BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
PRINTED FOR
PLAN CHECK - REV 4

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	07/11/2024	Plan Check - Rev 1
2	08/19/2025	CITY SUBMITTAL/CLIENT REVISIONS

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CONSULTANT PROJECT # 230392
DATE 01/30/24
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SHEET
ELECTRICAL SPECIFICATIONS

SHEET NUMBER
E-002P

11/12/2025 8:44:10 PM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_ELE.rvt
50-LS-05484-E-002P-ELECTRICAL SPECIFICATIONS

ELECTRICAL SITE PLAN KEYNOTES

(APPLIES TO THE ELECTRICAL SITE PLAN ONLY)

1. PROPOSED LOCATION OF SECONDARY UNDERGROUND ELECTRICAL UTILITY LINES.
2. PROPOSED LOCATION OF PAD MOUNTED TRANSFORMER FURNISHED BY THE ELECTRICAL UTILITY COMPANY. THE ELECTRICAL CONTRACTOR SHALL PROVIDE:
   - A. PROVIDE FIVE 3", SCH. 40 PVC CONDUIT TO UTILITY SOURCE, AT MINIMUM 30" BELOW FINISHED GRADE AND IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS. COORDINATE ALL REQUIREMENTS WITH THE UTILITY COMPANY PRIOR TO BID.
   - B. SECONDARY SERVICE LATERAL FROM UTILITY TRANSFORMER TO PANEL 'MDP' VIA THE CURRENT TRANSFORMER CABINET. SEE SINGLE-LINE DIAGRAM AND "ELECTRICAL SERVICE LATERAL CONDUIT DETAIL" FOR ADDITIONAL INFORMATION.
   - C. CONCRETE PAD FOR UTILITY TRANSFORMER IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS.
   - D. METERING CONDUIT. SEE NOTE-14.
3. LOCATION OF TERMINATION OF SECONDARY SERVICE LATERAL AT PANEL 'MDP'. REFER TO "SINGLE-LINE
4. A. PROVIDE TWO 2" SCH. 40 PVC CONDUIT (ONE IS A SPARE), MINIMUM 24" BELOW FINISHED GRADE, FOR TELEPHONE SERVICE FROM TELEPHONE UTILITY SOURCE TO JUNCTION BOX INSIDE THE BUILDING. REFER TO "POWER AND SYSTEMS PLAN" FOR LOCATION OF JUNCTION BOX IN SERVICE AREA. REFER TO "TELEPHONE SERVICE CONDUIT DETAIL", FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION OF UTILITY SOURCE WITH TELEPHONE UTILITY. TERMINATE CONDUITS AT UTILITY SOURCE AS REQUIRED BY THE UTILITY COMPANY.
   B. PROVIDE ONE 3" SCH. 40 PVC CONDUIT, MINIMUM 24" BELOW FINISHED GRADE, FOR ISP SERVICE FROM UTILITY SOURCE TO JUNCTION BOX INSIDE THE BUILDING. REFER TO "POWER AND SYSTEMS PLAN" FOR LOCATION OF JUNCTION BOX IN BUILDING. REFER TO "TELEPHONE SERVICE CONDUIT DETAIL" FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION OF UTILITY SOURCE WITH SERVICE SUPPLY COMPANY. TERMINATE CONDUITS AT AS REQUIRED BY THE UTILITY COMPANY.
5. LOCATION OF DUMPSTER. REFER TO "ORDER CANOPY PLAN AND REFUSE ENCLOSURE", FOR ELECTRICAL REQUIREMENTS IN THIS AREA.
6. REFER TO "ORDER CANOPY PLAN AND REFUSE ENCLOSURE" AND WIRING DIAGRAMS FOR ELECTRICAL REQUIREMENTS AT MENU BOARD, DRIVE-THRU CANOPY, AND PRESELL MENU BOARD.
7. REFER TO ELECTRICAL SPECIFICATIONS PERTAINING TO ELECTRICAL WORK DESCRIBED ON THIS SHEET.
8. REFER TO "LIGHTING PLAN" FOR LIGHTING FIXTURE SCHEDULE.
9. PROVIDE UNDERGROUND CONDUIT TO JUNCTION BOX IN OFFICE FOR POLE MOUNTED SECURITY CAMERA. REFER TO "BOH POWER PLAN" FOR LOCATION OF JUNCTION BOX IN OFFICE AND REQUIRED SIZE OF CONDUIT. COORDINATE EXACT CAMERA LOCATION WITH CHICK-FIL-A SECURITY SYSTEM REPRESENTATIVE PRIOR TO ROUGH-IN.
10. CONNECT SITE LIGHTING CIRCUITS TO TERMINAL BLOCKS LOCATED IN THE "CFA-T500" CONTROL PANEL (TYPICAL). SEE PANEL SCHEDULES.
11. CONNECT SITE SIGNAGE CIRCUITS TO TERMINAL BLOCKS LOCATED IN THE "CFA-T500" CONTROL PANEL (TYPICAL). REFER TO ELECTRICAL PANEL SCHEDULES FOR MORE INFORMATION. COORDINATE LOCATIONS OF ALL SIGNS WITH CHICK-FIL-A REPRESENTATIVE PRIOR TO BID AND PRIOR TO CONDUIT INSTALLATION.
12. PROVIDE GFCI TYPE WEATHERPROOF RECEPTACLE MOUNTED ON MAIN SIGN SUPPORT +14" AFG. THIS RECEPTACLE SHALL NOT BE SWITCHED. (BYPASS THE CONTACTOR AND SIGN'S DISCONNECT SWITCH.)
13. PROVIDE WEATHERPROOF 20A SPST TOGGLE SWITCH 18" AFG AND CONNECTION TO MAINTENANCE DISCONNECT SWITCH FOR MAIN I.D. SIGN.
14. PROPOSED LOCATION OF BUILDING MOUNTED ELECTRICAL UTILITY METER. METER BASE WILL BE FURNISHED BY THE UTILITY COMPANY AND INSTALLED BY THE CONTRACTOR. THE CURRENT TRANSFORMER CABINET SHALL BE FURNISHED AND INSTALLED ON THE BUILDING BY THE CONTRACTOR. THE CONTRACTOR SHALL ALSO FURNISH AND INSTALL A 1-1/4" RIGID GALVANIZED CONDUIT BETWEEN METER BASE AND CURRENT TRANSFORMER CABINET. COORDINATE LOCATIONS AND REQUIREMENTS WITH ELECTRIC UTILITY COMPANY PRIOR TO BID.
15. PROVIDE A 12' POLE FOR MOUNTING OF SECURITY CAMERA. POLE TO MATCH SITE LIGHTING POLES IN STYLE AND COLOR.

GENERAL ELECTRICAL SITE PLAN NOTES

(APPLIES TO THE ELECTRICAL SITE PLAN ONLY)

A. VERIFY WITH LOCAL AUTHORITIES AND UTILITIES THAT OWNER'S SIGNS, POLES, AND THEIR APPURTENANCES ARE NOT LOCATED ON OR OVER ANY EASEMENT OR MUNICIPAL RIGHT OF WAY.

B. SITE WORK, UTILITY, AND ROADWAY INFORMATION ARE TAKEN FROM BOUNDARY AND TOPO SURVEY SITE PLANS. REFER TO C-DRAWINGS.

C. MINIMUM CONDUIT SIZE SHALL BE 3/4"C. MINIMUM CONDUCTOR SIZE SHALL BE #10AWG COPPER UNLESS OTHERWISE NOTED.

D. REFER TO BUILDING ELECTRICAL DRAWINGS FOR EXTERIOR LIGHTING CONTROL.

E. FOR WORK UNDER THIS DIVISION, ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ONLY NEW AND U.L. LABELED ELECTRICAL EQUIPMENT, UNLESS INDICATED OTHERWISE BY THE CONTRACT DOCUMENTS.

F. FOR WORK UNDER THIS DIVISION, ELECTRICAL CONTRACTOR SHALL CONTACT ALL UTILITIES FOR VERIFICATION AND IDENTIFICATION OF ALL UNDERGROUND RUNS, PRIOR TO SITE TRENCHING ("CALL BEFORE YOU DIG").

G. FOR WORK UNDER THIS DIVISION, ELECTRICAL CONTRACTOR SHALL PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE (NFPA 70), AND THE LIFE SAFETY CODE (NFPA 101), AS ADOPTED AND/ OR AMENDED BY STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.

H. FOR WORK UNDER THIS DIVISION, ELECTRICAL CONTRACTOR SHALL COORDINATE AND FIELD VERIFY LOCATIONS OF ALL UTILITY SERVICE RUNS, ORIGINATIONS, TERMINATIONS AND ANY INSTALLATION REQUIREMENTS (i.e. ELECTRICAL, TELEPHONE, WATER, GAS, SEWAGE, ETC.), AS RELATED TO THIS JOB, OR THEREBY EFFECTED.

NOTE: EC SHALL COORDINATE WITH SECURITY SYSTEMS PROVIDER FOR EQUIPMENT LOCATIONS AND REQUIREMENTS PRIOR TO SITE TRENCHING.

ELECTRICAL SITE PLAN SYMBOLS

SYMBOL	DESCRIPTION (UNLESS OTHERWISE NOTED ON PLANS)
T	UTILITY COMPANY TRANSFORMER, (208 VOLT, 3 PHASE, 4 WIRE SECONDARY)
$	S.P.S.T. LIGHT SWITCH (600V AC QUIET TYPE)
GF	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE
	CONDUIT HOMERUN TO PANEL
#	JUNCTION BOX (SINGLE GANG STEEL WHERE WALL MOUNTED, 4" SQ. STEEL WHERE CEILING MOUNTED, UNLESS NOTED OTHERWISE)
	CONDUIT BURIED BELOW GRADE
	POLE MOUNTED SITE LIGHTING FIXTURE.

POWER/TELEPHONE UTILITIES:

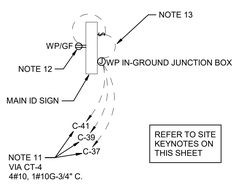
COORDINATE AND COMPLY WITH ALL TELEPHONE AND ELECTRICAL UTILITY REQUIREMENTS. THE FOLLOWING PERSONS SHALL BE CONTACTED FOR SPECIFIC UTILITY COMPANY REQUIREMENTS:

ELECTRICAL UTILITY: UTILITY CONTACT
UTILITY COMPANY
PHONE NUMBER
EMAIL ADDRESS

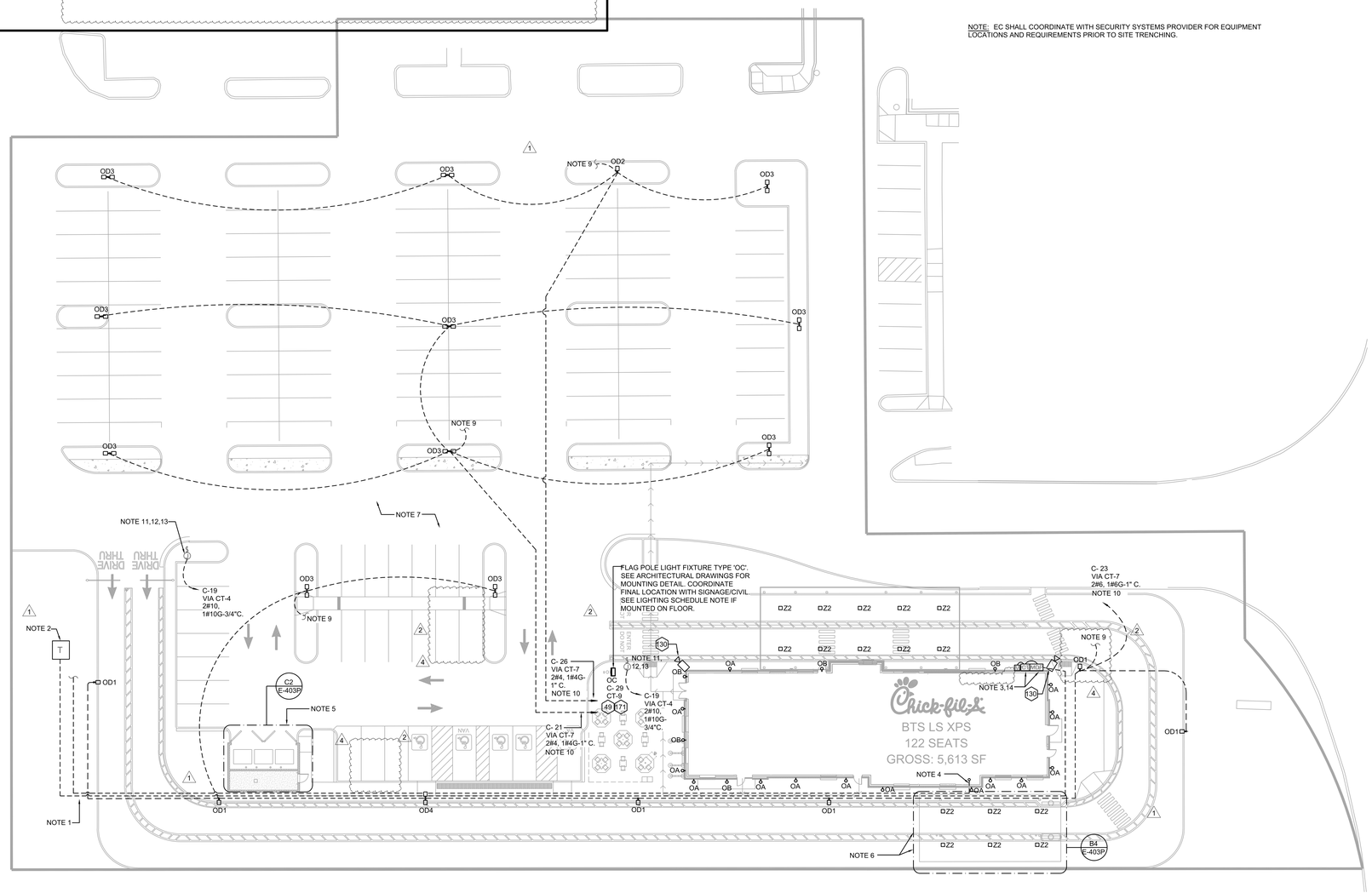
TELEPHONE UTILITY : UTILITY CONTACT
UTILITY COMPANY
PHONE NUMBER
EMAIL ADDRESS

SIGNAGE NOTE

THE ELECTRICAL SUBCONTRACTOR SHALL INCLUDE THE ELECTRICAL ROUGH-IN AND FINAL CONNECTIONS OF ALL SIGNAGE (BUILDING MOUNTED AND GROUND MOUNTED ON THE SITE) IN HIS SCOPE OF WORK AND UNDER HIS LOCAL CODE PERMITTING PROCESS. PROVIDE A COPY OF THE PERMIT (WHICH SPECIFICALLY INCLUDES THE SIGNAGE) TO THE SIGN VENDOR IN ORDER TO EXPEDITE THE SIGN VENDOR'S PERMIT PROCESS.



A2 MAIN ID SIGN DETAIL
N.T.S.



ELECTRICAL KEYNOTES

49 MOUNT TYPE 'OC' LIGHTING FIXTURE, WITH INTEGRAL SLIPFITTER, ON PIPE. PIPE WILL BE PROVIDED BY OTHER TRADES. AIM LIGHTING FIXTURE AT NIGHT FOR BEST ILLUMINATION OF FLAG.

130 LOCATION OF A 360 DEGREE BUILDING MOUNTED EXTERIOR CAMERA (BY OTHERS). PROVIDE A 3/4" CONDUIT AT 9'-4" AFF TO AN EXTERIOR WALL MOUNTED WP JUNCTION BOX WITH THE CONDUIT ABOVE THE INTERIOR CEILING AND EXTENDED TO AN ACCESSIBLE CEILING AREA FOR CAMERA CABLES BY OTHERS.

171 FLAG POLE LIGHT FIXTURE TYPE 'OC'. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING DETAIL.

A3 SITE LIGHTING AND POWER PLAN
1" = 20'-0"

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FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
PRINTED FOR
PLAN CHECK - REV 4

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	07/11/2024	Plan Check - Rev 1
2	08/19/2025	CITY SUBMITTAL/CLIENT REVISIONS
4	10/20/2025	PLAN CHECK-REV 4

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CONSULTANT PROJECT # 230392
DATE 01/30/24
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SHEET
SITE LIGHTING AND POWER PLAN

SHEET NUMBER
E-101P

11/12/2025 8:44:13 PM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_ELE.rvt
50-LS-05484-E-101P-SITE LIGHTING AND POWER PLAN

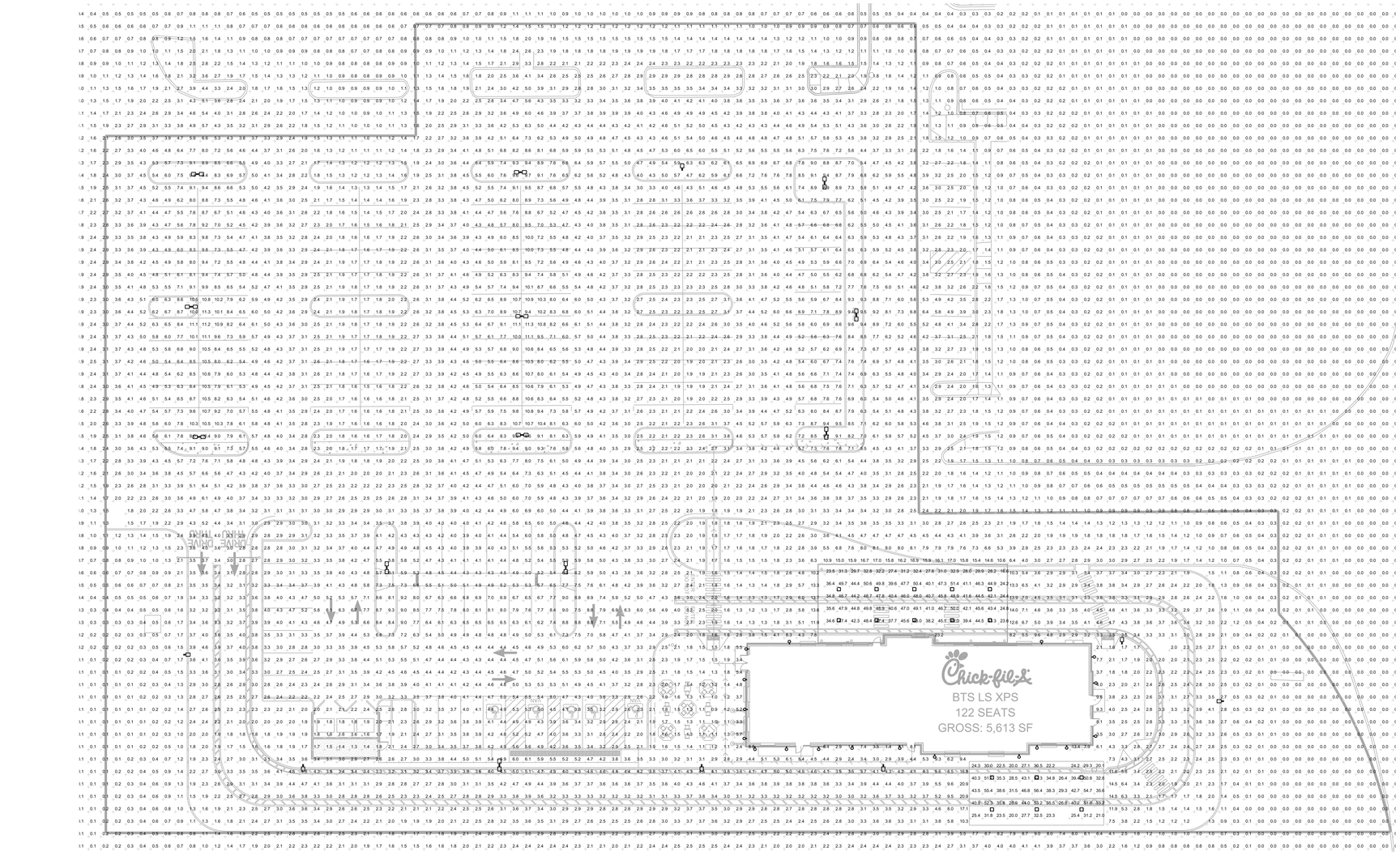
Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PARKING/DRIVEWAY	+	4.1 fc	23.2 fc	0.6fc	38.7:1	6.8:1
CANOPY 1	+	35.1 fc	56.4 fc	20.0fc	2.8:1	1.8:1
CANOPY 2	+	40.5 fc	51.4 fc	16.6fc	3.1:1	2.4:1

1

SCHEDULE

SYMBOL	TAG	QTY	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	FILE NAME	(QTY)LAMP	LUMENS	WATTS	DISTRIBUTION	MOUNTING HEIGHT
	OD1	6	COOPER LIGHTING	PRV-PA2B-730-U-T4W-HSS	PREVAIL AREA AND ROADWAY LUMINAIRE (2) 70 CRI, 3000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD	PRV-PA2B-730-U-T4W-HSS.ies	1	12,816	151.0	BUG RATING : B1-U0-G3	20 FT
	OD2	1	COOPER LIGHTING	PRV-PA2B-730-U-T4W	PREVAIL AREA AND ROADWAY LUMINAIRE (2) 70 CRI, 3000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS	PRV-PA2B-730-U-T4W.ies	1	17,696	151.0	BUG RATING : B3-U0-G4	20 FT
	OD3	11	COOPER LIGHTING 1	PRV-PA2B-730-U-T4W	PREVAIL AREA AND ROADWAY LUMINAIRE (2) 70 CRI, 3000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS	PRV-PA2B-730-U-T4W.ies	2	35,392	302.0	BUG RATING : B3-U0-G4	20 FT
	OD4	1 2	COOPER LIGHTING	PRV-PA2B-730-U-T4W-HSS	PREVAIL AREA AND ROADWAY LUMINAIRE (2) 70 CRI, 3000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD	PRV-PA2B-730-U-T4W-HSS.ies	2	25,632	151.0	BUG RATING : B1-U0-G3	20 FT
	Z2	16	LSI	CRUS-SC-LED-LW30-UE-WHT	LED CANOPY LUMINAIRE, 3000K		1	11,000	74.0		RECESS
	OA	13	PROGRESS LIGHTING	P5675-31	5" UP/DOWN CYLINDER WITH HEAVY DUTY ALUMINUM CONSTRUCTION, WET LISTED		2		24		
	OB	5	PROGRESS LIGHTING	P5675-31	5" DOWN CYLINDER WITH HEAVY DUTY ALUMINUM CONSTRUCTION, WET LISTED		1		12		

1



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FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
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PLAN CHECK - REV 4

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	07/11/2024	Plan Check - Rev 1
2	08/19/2025	CITY SUBMITTAL/CLIENT REVISIONS

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THIS SET OF PLANS HAS BEEN APPROVED BY THE CITY FOR CONSTRUCTION. THE SITE CONTRACTOR SHALL KEEP A COPY OF THESE PLANS ON THE JOB SITE AT ALL TIMES.

CONSULTANT PROJECT #	230392
DATE	01/30/24
DRAWN BY	AS

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SHEET
SITE PHOTOMETRIC PLAN

SHEET NUMBER
E-102P

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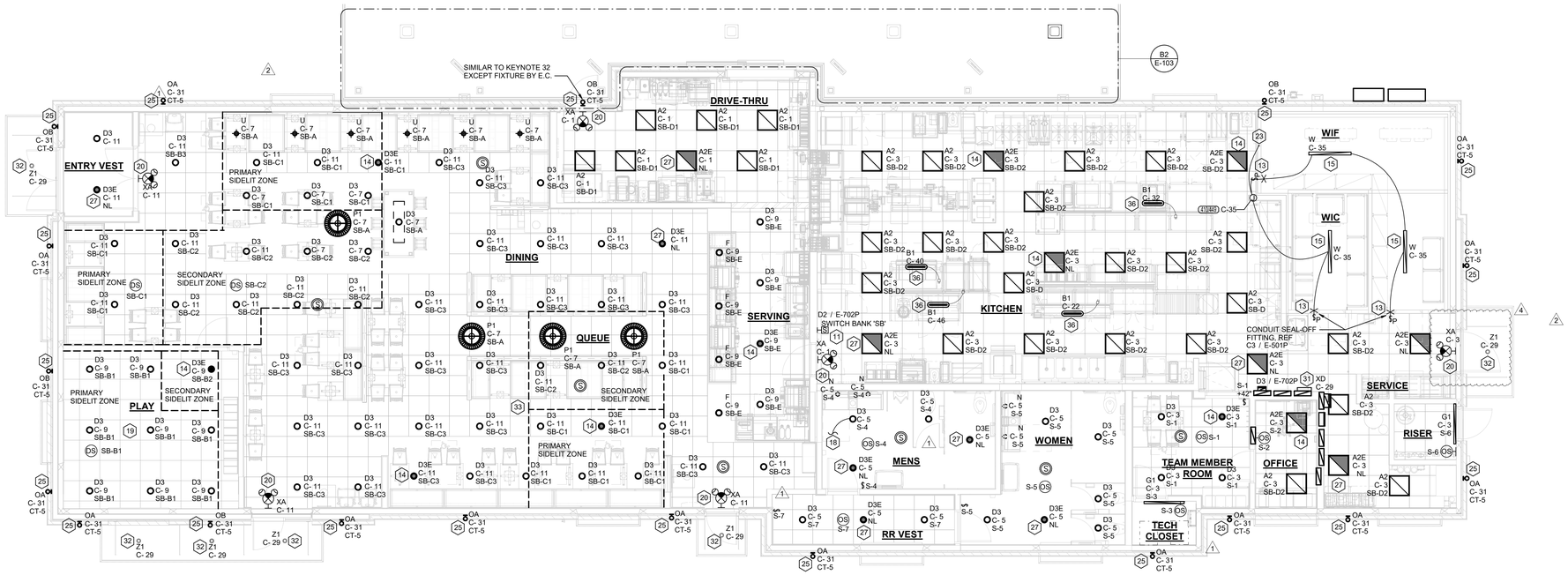
50-LS-05484-E-102P-SITE PHOTOMETRIC PLAN



C4 LIGHTING PLAN
3/16" = 1'-0"

ELECTRICAL KEYNOTES

11 APPROXIMATE LOCATION OF SWITCH BANK 'SB'. SEE DETAIL ON THE LIGHTING PLAN FOR MORE INFORMATION.

13 FOR CONTROL OF LIGHTING FIXTURE IN WALK-IN COOLER AND FREEZER. SWITCH FURNISHED WITH EQUIPMENT, INSTALLED BY ELECTRICAL CONTRACTOR.

14 CONNECT FIXTURE SO THAT BATTERY PACK IS NOT SWITCHED WITH LIGHTS, BUT ALL LAMPS ARE SWITCHED.

15 FOR CONNECTION TO LIGHTING FIXTURE IN THE WALK-IN COOLER AND FREEZER WHICH IS FURNISHED WITH EQUIPMENT. CONTRACTOR SHALL ROUGH-IN AND CONNECT ALL FIXTURES AS REQUIRED BY THE EQUIPMENT MANUFACTURER.

18 TO THE TOILET EXHAUST FAN ON ROOF. REFER TO THE ELECTRICAL ROOF PLAN.

20 THIS FIXTURE SHALL NOT BE SWITCHED. CONNECT TO CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS.

23 TO WALK-IN FREEZER DOOR FRAME HEATER AND AIR RELIEF ASSEMBLY (PRESSURE REDUCTION VALVE - PRV), THRU SEAL-OFF FITTING. VERIFY ROUGH-IN AND FINAL CONNECTION WITH EQUIPMENT.

25 ROUTE THROUGH CONTROL PANEL CFA-T500 AND CONTROLLED BY OCCUPIED SWITCH AND PHOTOCELL.

27 CONNECT LIGHTING FIXTURE SO THAT LAMP BALLAST OR DRIVER AND EMERGENCY BATTERY PACK ARE NOT SWITCHED. 'NL' ADJACENT TO FIXTURE INDICATES THAT FIXTURE SHALL BE ON 24 HOURS.

31 TYPE 'XD' INVERTER CABINET TO BE WALL MOUNTED AT THE CEILING AND CONNECTED TO CIRCUIT C-29 THRU THE CFA-T500'S CONTACTOR #9 (DUSK TO DAWN CONTROL). CONNECT WITH BOTH A CONTROLLED (VIA THE CONTACTOR FOR LIGHTS ON AT DUSK AND OFF AT DAWN) LEG AND AN UNSWITCHED LEG FOR THE BATTERY IN THE INVERTER. WHEN POWER IS DISRUPTED ON THE UNSWITCHED LEG, THEN THE INVERTER'S BATTERY WILL ENERGIZE THE LIGHTS CONNECTED TO THE INVERTER NO MATTER THE TIME OF DAY. PROVIDE CONNECTIONS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

32 CANOPY LIGHTS PROVIDED BY THE CANOPY SUPPLIER INTEGRAL WITH THE CANOPY. ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH-IN CONDUIT CHASE AT CL OF AWNING AND AT 10'-0" AFF (VERIFY) AND CONNECT THE 120V CIRCUIT TO THE 'XD' INVERTER UNIT. COORDINATE LOCATIONS OF LIGHTS AND ROUGH-IN REQUIREMENTS WITH THE CANOPY SUPPLIER. LIGHTS WILL COME ON AT DUSK, TURN OFF AT DAWN, AND BE ENERGIZED WHENEVER THERE IS A POWER OUTAGE.

33 REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LOCATIONS OF PENDANTS, DOWNLIGHTS, ACCENTS LIGHTS, AND OTHER CEILING MOUNTED LIGHT FIXTURES.

36 PROVIDE A TYPE B1 SHELF MOUNTED TASK LIGHT FIXTURE. MOUNT LIGHT TO THE UNDERSIDE OF THE WIRE SHELVING. PROVIDE A CORD FROM THE FIXTURE(S) TO A SWITCH IN AN FS BOX MOUNTED TO THE SHELF. FROM FS BOX PROVIDE AN SO CORD WITH PLUG AND CONNECT TO THE GEN RECEPTACLE (WALL OR DROP CORD). SEE ENLARGED POWER PLAN FOR FURTHER INFORMATION.

112 CEILING LIGHT FIXTURE PROVIDED BY THE CANOPY SUPPLIER AND INSTALLED BY ELECTRICAL CONTRACTOR.

113 AIR CIRCULATING FAN (WITH INTEGRAL ON-OFF SWITCH) PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. PROVIDE A DUPLEX RECEPTACLE OUTLET (WITH IN-USE WP COVER PLATE) AT THE TOP OF THE COLUMN FLUSH MOUNTED IN THE CUT-OUT FOR THE FAN'S PLUG AND CORD CONNECTION.

114 INFRARED HEATER WITH INTEGRAL ON-OFF SWITCH PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.

ELECTRICAL KEYNOTES

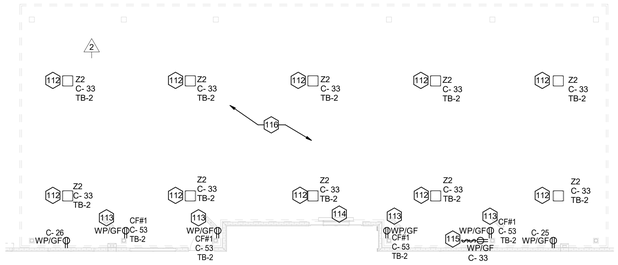
115 PROVIDE ONE DUPLEX GFCI (WITH IN-USE WP COVER PLATE) AND TWO 120V SINGLE-POLE SWITCHES (EACH WITH HUBBELL #RW51550 WP COVER PLATE) AND ONE DUPLEX SINGLE-POLE SWITCH (WITH HUBBELL #RW51470 WP COVER PLATE) MOUNTED IN THE COLUMN IN FLUSH MOUNTED METAL SINGLE-GANG BOXES FOR LOCAL ON-OFF CONTROL OF THE FANS, HEATERS, AND CANOPY LIGHTS. SEE WIRING SCHEMATIC FOR FURTHER INFORMATION. ALL SURFACE (OR VISIBLE) ITEMS AND COVERPLATES TO BE FIELD PAINTED MATTE BLACK.

116 ALL CONDUIT AND BOXES SHALL BE CONCEALED FROM NORMAL VIEW; IN WALLS OR ABOVE THE CANOPY (ON THE ROOF). MC CABLE (GALVANIZED STEEL WITH PVC JACKET) MAY BE USED INSIDE THE WALL FOR THE DEVICES, BUT MUST CONVERT TO IMC ABOVE THE CANOPY ROOF. (PROVIDE A NEMA 3R JUNCTION BOX ON THE ROOF SIDE OF THE CANOPY TO TRANSITION FROM MC CABLES IN WALL TO IMC CONDUIT ON THE ROOF.) ALL EXPOSED BOXES AND FITTINGS TO BE CAST-METAL NEMA 3R. REFER TO THE MECHANICAL SHEETS FOR CONDUIT MOUNTING DETAILS ON THE ROOF.

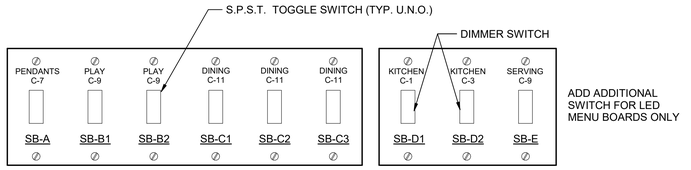
GENERAL NOTES

1 PROVIDE INDIVIDUAL SUPPORT WIRES TO ALL LUMINAIRES SUSPENDED IN CEILINGS AND ALL LUMINAIRES MUST BE SECURED TO THE GRID.

2. LUMINAIRES SHALL BE SECURELY FASTENED TO THE CEILING FRAMING MEMBER BY MECHANICAL MEANS SUCH AS BOLTS, SCREWS, OR RIVETS IN ACCORDANCE WITH CEC 410.36(B)

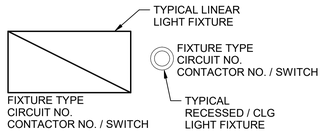


B2 CANOPY PLAN
1/8" = 1'-0"



NOTE: LOCATE JUNCTION BOXES IN CEILING SPACE ABOVE THE LOCATION OF THE SWITCHBANK FOR SPLICING OF LINE, LOAD, AND SWITCHED CONDUCTORS. PROVIDE GANGED BACKBOX FOR SWITCHES AS REQUIRED AND LABEL ALL CONDUCTORS SO AS TO INDICATE THEIR USE (LINE, LOAD, SWITCH), THE LOAD SERVED, AND THE CIRCUIT NUMBER.

B1 SWITCH BANK "SB" DETAIL
NO SCALE



A3 LIGHT FIXTURE NOMECLATURE
NO SCALE

LIGHTING FIXTURE (LUMINAIRE) SCHEDULE - CHICK-FIL-A P14 EDITION

NOTE: NOT ALL FIXTURE TYPES ARE USED IN ALL OF THE P14 BUILDINGS. CONFIRM WITH THE LIGHTING VENDOR FOR ANY UPDATES TO THE CURRENT LIGHTING MANUFACTURER AND CATALOG NUMBER.

MARK	MANUFACTURER	CATALOG NUMBER	NO. LAMPS/TYPE	WATTS	VOLTS	MOUNTING	REMARKS
A2	COOPER/METALUX	22FP4240C	INTEGRAL WITH FIXTURE	39 VA	120 V	RECESSED	2X2 LED FLAT PANEL
A2E	COOPER/METALUX	22FP4240C	INTEGRAL WITH FIXTURE	39 VA	120 V	RECESSED	2X2 EMERGENCY LED FLAT PANEL
B1	COOPER/METALUX	2VT3-LD5-4-G-120V-L840-CD1-SSL-U	INTEGRAL WITH FIXTURE	32 VA	120 V	SURFACE	MOUNT LIGHT TO BTM OF OVERHEAD WIRE SHELVING WITH CORD & PLUG
D3	COOPER/HALO	HC620D010-HM60525830-61NDC	INTEGRAL WITH FIXTURE	21 VA	120 V	RECESSED	LED DOWNLIGHT WITH CLEAR REFLECTOR & TRIM RATED 2000 LUMENS, 3000K COLOR TEMP
D3E	COOPER/HALO	HC620D010-HM60525830-61NDCIEM	INTEGRAL WITH FIXTURE	21 VA	120 V	RECESSED	SAME AS 'D3' EXCEPT WITH EMERGENCY BATTERY PACK/INTEGRAL TEST SWITCH
F	COOPER/HALO	SLDSL606931EMWR	INTEGRAL WITH FIXTURE	9 VA	120 V	SURFACE	RETROFIT ULTRA-LOW 6" SURFACE LED DOWNLIGHT, SET COLOR TEMP TO 3000K
G1	COOPER/METALUX	4SLSTP4040DD-UNV	INTEGRAL WITH FIXTURE	44 VA	120 V	<varies>	4760 LUMEN 4 FOOT LENSED LED STRIPLIGHT, MTD ABOVE DOOR FRAME OR CEILING
N	GEORGE KOVACS	P5040-66A-L	Z08 SMD LED/Y53 LED MODULE	12 VA	<varies>	WALL	LAVATORY WALL SCONCE CL ON LAVATORY
OA	PROGRESS LIGHTING	P5675-31/30K WITH P860038 TOP COVER LENS	2-(GE) LED12P30RW830025	24 VA	120 V	WALL	5" DIAMETER, 14" HEIGHT, WET LOCATION, UP/DOWN CYLINDER W/ 12 WATT PAR30 3K NFL LED LAMPS
OB	PROGRESS LIGHTING	P5675-31/30K WITH P860038 TOP COVER LENS (DOWN LIGHT ONLY)	1-(GE) LED12P30RW830025	12 VA	120 V	WALL	5" DIAMETER, 14" HEIGHT, WET LOCATION, DOWN CYLINDER W/ 12 WATT PAR30 3K NFL LED LAMPS
OC	HUBBELL	FLL-42L-95-4K-7-N-U-K-DB (SEE NOTE 4)	INTEGRAL WITH FIXTURE	97 VA	120 V	PIPE	FLOODLIGHT MTD ON ROOF ON 2" PIPE SUPPORT (BY OTHERS) AND AIMED AT FLAG AFTER DARK
OD1	COOPER/LUMARK	LUMINAIRE: PRV-PA2B-730-U-T4W-HSS (DISTRIBUTION TYPE 4) POLE: SSS-4A-25-SFM-1-4 (SINGLE LUMINAIRE)	INTEGRAL WITH FIXTURE	151 VA	120 V	POLE W/ CONCRETE BASE	PROVIDE MOTION SENOR FOR AUTOMATIC DIMMING, COORDINATE WITH THE SPECIFIC SITE CONDITIONS FOR THE TYPE OF POLES REQUIRED, THE HEIGHT, AND THE CONFIGURATION. CONTACT VENDOR IF HIGHER THAN 100 MPH WIND LOADING REQUIRED.
OD2	COOPER/LUMARK	LUMINAIRE: PRV-PA2B-730-U-T4W (DISTRIBUTION TYPE 4) POLE: SSS-4A-25-SFM-1-4 (SINGLE LUMINAIRE)	INTEGRAL WITH FIXTURE	151 VA	120 V	POLE W/ CONCRETE BASE	PROVIDE MOTION SENOR FOR AUTOMATIC DIMMING,COORDINATE WITH THE SPECIFIC SITE CONDITIONS FOR THE TYPE OF POLES REQUIRED, THE HEIGHT, AND THE CONFIGURATION. CONTACT VENDOR IF HIGHER THAN 100 MPH WIND LOADING REQUIRED.
OD3	COOPER/LUMARK	LUMINAIRE: PRV-PA2B-730-U-T4W (DISTRIBUTION TYPE 4) POLE: SSS-4A-25-SFM-2-4 (TWO LUMINAIRES AT 180 DEGRESS)	INTEGRAL WITH FIXTURE	302 VA	120 V	POLE W/ CONCRETE BASE	PROVIDE MOTION SENOR FOR AUTOMATIC DIMMING. COORDINATE WITH THE SPECIFIC SITE CONDITIONS FOR THE TYPE OF POLES REQUIRED, THE HEIGHT, AND THE CONFIGURATION. CONTACT VENDOR IF HIGHER THAN 100 MPH WIND LOADING REQUIRED.
OK	HUBBELL	LNC-5LD-3K-3-1	INTEGRAL WITH FIXTURE	13 VA	120 V	WALL	LED WALLPACK W/ CENTERLINE OF FIXTURE AT 8'-0" ABV 0'-0" (FINISH FLOOR LINE)
P1	MEYDA	142776	2-LED11A19/827/D	22 VA	120 V	PENDANT	31" DIA PEACH BASKET PENDANT WITH BTM AT 8'-0" AFF
U	BESA LIGHTING	BES00298-060	FURNISHED	9 VA	120 V	PENDANT	RED FRIT GLASS, BRONZE CABLE & CANOPY, 8'-0" AFF
W	HOWARD LIGHTING	EVSL44040MVS	INTEGRAL WITH FIXTURE	40 VA	120 V	SURFACE	50" VAPOR-TIGHT LED FIXTURE PROVIDED BY THERMO-KOOL
XA	COOPER/SURE-LITES	APCH7R	INTEGRAL WITH FIXTURE	4 VA	120 V	WALL	EXIT SIGN WITH BATTERY PACK AND TWO INTEGRAL ADJUSTABLE LAMPHEADS
XD	MULE LIGHTING	SPS-220/250-120/277	NONE	250 VA	120 V	WALL	INVERTER UNIT FOR EXTERIOR EGRESS LTG; ON AT DUSK, OFF AT DAWN. ON DURING PWR OUTAGE
Z1	COOPER/HALO	SLD405930/WH	INTEGRAL WITH FIXTURE	12 VA	120 V	RECESSED	LED DOWNLIGHT PROVIDED BY CANOPY SUPPLIER INSTALLED BY CANOPY SUPPLIER. CONNECTION BY ELECTRICAL CONTRACTOR
Z2	LSI	CRUS-SC-LED-LW30-UE-WHT	INTEGRAL WITH FIXTURE	74 VA	120 V	RECESSED	CANOPY LIGHT PROVIDED BY CANOPY SUPPLIER AND INSTALLED BY ELECTRICAL CONTRACTOR

NOTES:
1. LUMINAIRES UTILIZING DOUBLE-ENDED LAMPS AND CONTAIN BALLASTS THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS EITHER INTERNAL OF EXTERNAL TO EACH LUMINAIRE PER NEC 410.130(G).
2. THE LIGHTING FIXTURE PACKAGE IS AVAILABLE THROUGH A NATIONAL ACCOUNT PROGRAM. REFER TO THE ELECTRICAL SPECIFICATIONS SHEET, SECTION C16500 FOR VENDOR INFORMATION.
3. THE ASTERISK (*) BESIDE THE FIXTURE MARK IN THE ABOVE SCHEDULE INDICATES THE FIXTURE IS A NON-PROTOTYPICAL LIGHT FIXTURE PER THE CFA NATIONAL P14 PROTOTYPE.
4. IF TYPE OC IS GROUND MOUNTED IN LIEU OF ROOF MOUNTED, PROVIDE EITHER THE FLL-VISOR-DB (VISOR) OR THE FLL-LOUVER-BL (LOUVER) FOR GLARE CONTROL.

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FSR#05484
BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
PRINTED FOR
PLAN CHECK - REV 4

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	07/11/2024	Plan Check - Rev 1
2	08/19/2025	CITY SUBMITTAL/CLIENT REVISIONS
4	10/20/2025	PLAN CHECK-REV 4

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THIS SET OF CFA APPROVED PLANS IS TO BE KEPT ON SITE AT ALL TIMES.

CONSULTANT PROJECT # 230392
DATE 01/30/24
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SHEET
LIGHTING PLAN

SHEET NUMBER
E-103

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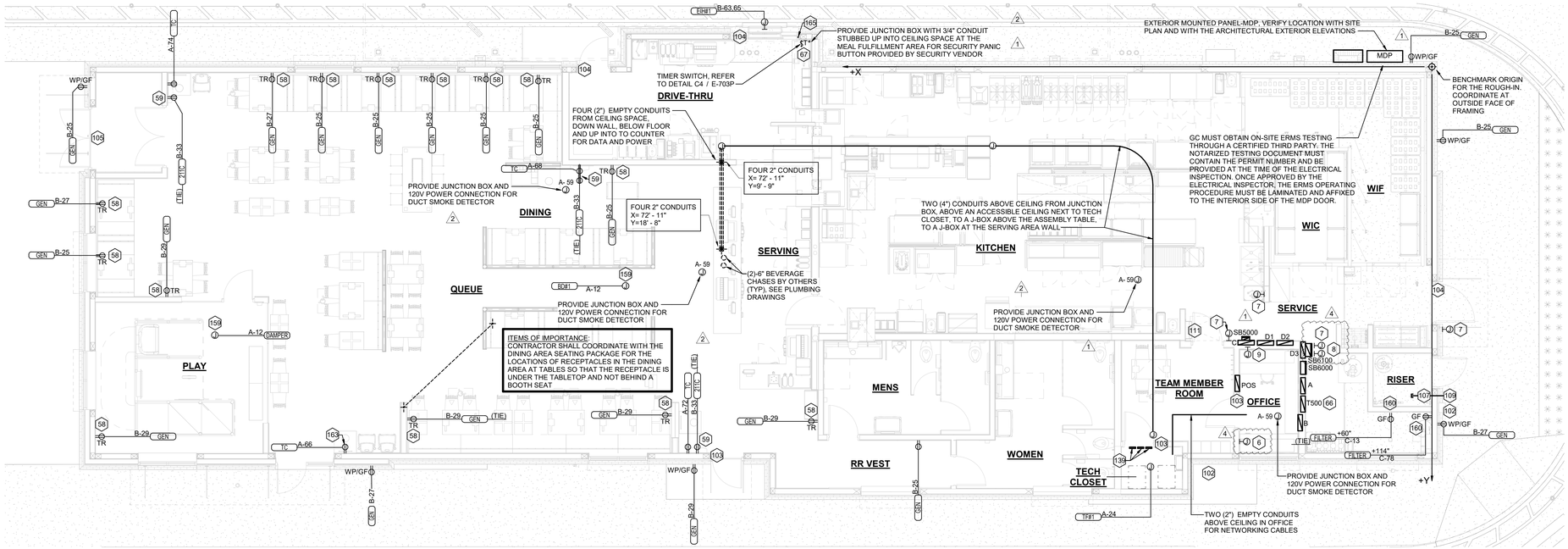
50-LS-05484-E-103-LIGHTING PLAN

REFER TO THE ELECTRICAL SITE PLAN FOR ADDITIONAL REQUIREMENTS FOR THE DRIVE-THRU CASH STATION



C1 POWER AND SYSTEMS PLAN
3/16" = 1'-0"

ELECTRICAL KEYNOTES

6 CO2 CENTRAL CONTROL UNIT - PROVIDE SINGLE-GANG BACKBOX AT 60" AFF WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE

7 CO2 ANNUNCIATOR UNIT - PROVIDE SINGLE-GANG BACKBOX AT 60" AFF WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE

8 CO2 SENSOR UNIT - PROVIDE SINGLE-GANG BACKBOX AT 12" AFF WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE

9 CO2 POWER SUPPLY - PROVIDE SINGLE-GANG BACKBOX AT 18" BELOW CEILING WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE. PROVIDE DUPLEX OUTLET, AND CONNECT TO A LOCAL GENERAL OUTLET CIRCUIT. FIELD VERIFY EXACT LOCATION WITH STRONG SYSTEMS 800-500-5566

39 THREE SINGLE GANG EXTRA DEEP J-BOXES STACKED WITH A 1/2" CONDUIT FROM EACH TO THE TOP J-BOX BOX AND A 1" CONDUIT STUBBED INTO THE CEILING SPACE FOR MUSIC SYSTEM VOLUME CONTROLS PROVIDED BY OWNER'S VENDOR.

58 TAMPER RESISTANT (TR) DUPLEX RECEPTACLE (IN DINING AREAS) WITH USB CHARGER SHALL BE COOPER/ARROW HART #TR7756-B (BROWN) WITH MATCHING COLOR 'DECOR' STYLE PLATE. VERIFY COLOR WITH OWNER.

59 PROVIDE DUPLEX RECEPTACLE (SEE ELEVATIONS FOR MTG HT) IN AN ARLINGTON #DVFR2W DOUBLE-GANG RECESSED BOX FOR THE FLY SYSTEM ITEMS. DO NOT CUT THE CORDSET FURNISHED WITH THE UNIT, BUT COIL THE CORD ON THE BACK OF THE UNIT AND TUCK INTO THE BACKBOX.

64 PROVIDE TWO 6"H X 6"W X 4"D J-BOXES (ONE FOR TELEPHONE AND ONE FOR ISP) AT 6'-6" AFF AND EXTEND A 2" CONDUIT WITH PULL STRING IN THE WALL FROM EACH J-BOX INTO THE ACCESSIBLE CEILING SPACE. PROVIDE A 36" X 36" X 3/4" PLYWOOD BACKBOARD ON THE WALL ABOVE THE J-BOXES (AT THE CEILING) FOR USE BY THE ISP. PROVIDE A COPPER GROUND BAR (EQUAL TO ERICO TGBA24L14P) AT THE BOTTOM OF THE BACKBOARD WITH A #6 AWG INSULATED CU GROUNDING CONDUCTOR IN A 3/4"C FROM THE GROUND BAR TO THE INTER SYSTEM BONDING TERMINATION NEXT TO THE SERVICE ENTRANCE. THE GROUND BAR SHALL HAVE TAPS FOR USE BY THE TELEPHONE AND ISP UTILITY COMPANIES AND FOR THE #6 COMMUNICATIONS GROUNDING CONDUCTOR TO THE GES. PROVIDE A 15 AMP ISOLATED GROUND (IG) ORANGE-FACED DUPLEX RECEPTACLE IN THE WALL BESIDE THE BACKBOARD AND LABEL THE RECEPTACLE "FOR FIBER TO CABLE MODEM USE ONLY". BOND NETWORK RACKS TO GROUND BAR.

66 THE STORE OPEN-CLOSE UNIT SWITCH IS FURNISHED WITH THE CFA-T500 CONTROL PANEL AND FACTORY INSTALLED IN THE DOOR OF THE CFA-T500 CABINET.

67 TIMER SWITCH FOR OUTSIDE ELECTRIC HEATER. REFER TO DETAILS SHEET E-502 AND WIRING DIAGRAMS E-703.

102 PROVIDE A 1/2" CONDUIT THRU THE EXTERIOR WALL AND STUBBED INTO THE ACCESSIBLE CEILING SPACE FOR THE EXTERIOR WALL MOUNTED AUDIO-VISUAL ALARM NOTIFICATION DEVICE. VERIFY LOCATION WITH THE EXTERIOR ELEVATIONS AND WITH THE SECURITY INSTALLER - TYPICALLY TO BE LOCATED NEAR THE FIRE PROTECTION SYSTEM'S EXTERIOR ALARM UNIT AND VISIBLE FROM THE STREET.

103 EXTEND 1/2" RIGID CONDUIT FROM TOP OF STRIKE-SIDE DOOR FRAME CHANNEL TO ABOVE ACCESSIBLE CEILING.

104 EXTEND 3/4" RIGID CONDUIT FROM TOP OF STRIKE-SIDE DOOR FRAME CHANNEL TO ABOVE ACCESSIBLE CEILING.

105 EXTEND 1/2" CONDUIT FROM A POINT 3" WITHIN EITHER HINGE-SIDE DOOR VERTICAL FRAME MULLION TO ABOVE ACCESSIBLE CEILING.

107 PROVIDE SINGLE GANG JUNCTION BOX WITH STAINLESS STEEL COVER PLATE MOUNTED ABOVE THE CEILING SPACE AND ABOVE ON THE INTERIOR SIDE OF THE REAR DOOR. ROUTE 1" CONDUIT FROM THE BOX TO THE "109" BOX NOTED BELOW.

109 PROVIDE SINGLE GANG, WEATHER-PROOF JUNCTION BOX WITH STAINLESS STEEL COVER PLATE MOUNTED ABOVE THE REAR DOOR ON THE EXTERIOR WALL. ROUTE 1" CONDUIT FROM THE BOX AND INTO THE BUILDING AND TERMINATE CONDUIT IN THE BOX NOTED IN "107" ABOVE.

ELECTRICAL KEYNOTES

111 PROVIDE JUNCTION BOX ON THE LATCH SIDE OF THE ROOF ACCESS HATCH WITH 1/2" CONDUIT ABOVE THE CEILING TO AN ACCESSIBLE CEILING SPACE FOR A DOOR CONTACT.

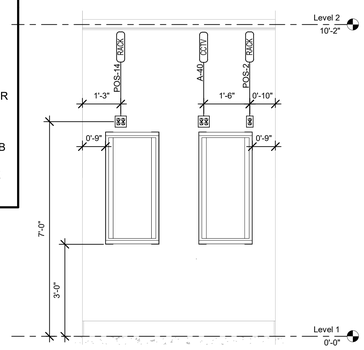
139 ACCESS CONTROL PANELS LOCATED ABOVE DOOR. SECURITY CONTRACTOR TO INSTALL AND PROVIDE POE.

159 PROVIDE A 120 VOLT CONNECTION TO THE MOTORIZED DAMPER.

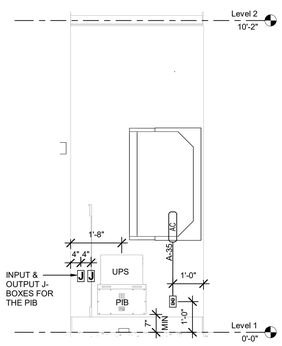
160 VERIFY WITH THE PLUMBING PLANS FOR THE LOCATION OF THE WATER FILTER OUTLET.

163 SURFACE MOUNT AN ELECTRICAL BACKBOX AT 12" AFF (SECURED TO LOW WALL) WITH A DUPLEX RECEPTACLE OUTLET WITH UNDER-SLAB CONDUIT. COORDINATE THE ROUGH-IN LOCATION OF THE UNDER-SLAB CONDUIT TURN-UP WITH THE FURNITURE PLANS.

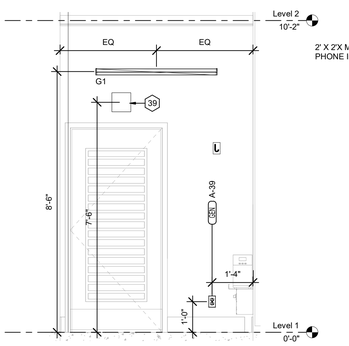
165 EXTEND 3/4" CONDUIT THRU 1" HOLE CENTERED IN THE WIDTH OF THE HEADER ABOVE WHERE DOOR JAMB LINES UP FOR LOW VOLTAGE WIRING. VERIFY WITH STRUCTURAL ON EXACT LOCATION.



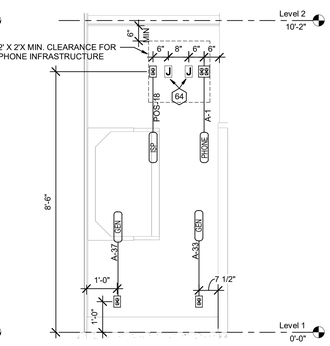
B4 TECH CLOS. ELEV SOUTH
1/2" = 1'-0"



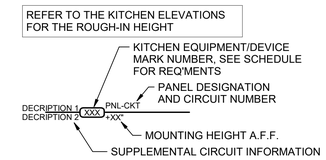
B3 TECH CLOS. ELEV EAST
1/2" = 1'-0"



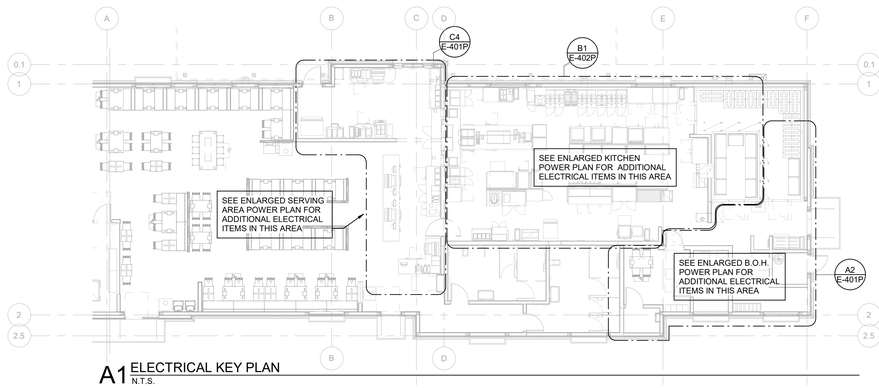
B2 TECH CLOS. ELEV NORTH
1/2" = 1'-0"



B1 TECH CLOS. ELEV WEST
1/2" = 1'-0"



A3 KITCHEN EQUIP NOMENCLATURE
NO SCALE



A1 ELECTRICAL KEY PLAN
N.T.S.

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LICENSED PROFESSIONAL ENGINEER

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HELENA, MONTANA 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
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PLAN CHECK - REV 4

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	07/11/2024	Plan Check - Rev 1
2	08/19/2025	CITY SUBMITTAL/CLIENT REVISIONS
4	10/20/2025	PLAN CHECK-REV 4

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CONSULTANT PROJECT # 230392
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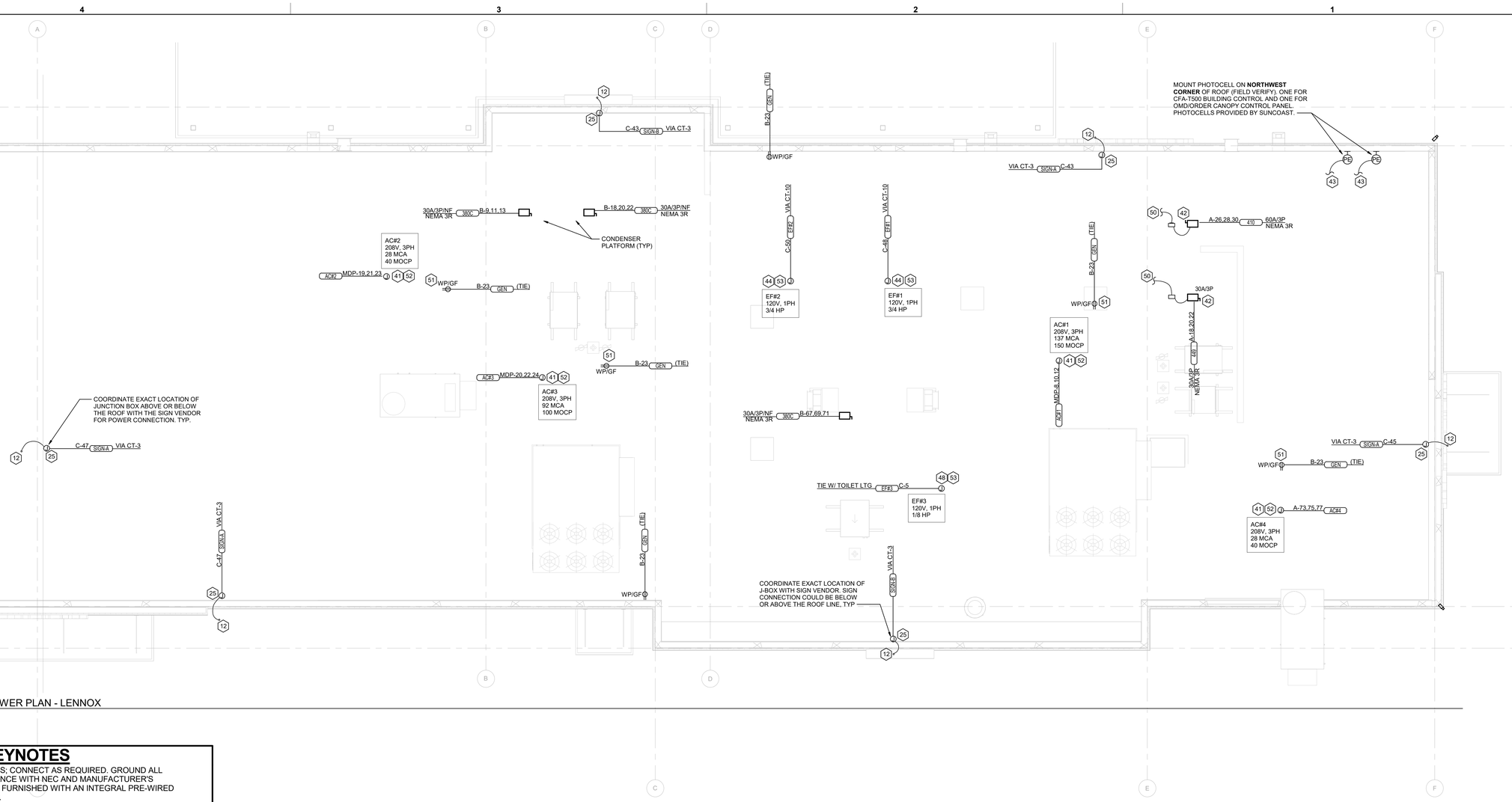
SHEET
POWER AND SYSTEMS PLAN

SHEET NUMBER
E-104

11/12/2025 8:44:36 PM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_ELE.rvt
50-LS-05484-E-104-POWER AND SYSTEMS PLAN



C1 ROOF POWER PLAN - LENNOX
1/4" = 1'-0"

ELECTRICAL KEYNOTES

12	FOR SIGNAGE BY OTHERS; CONNECT AS REQUIRED. GROUND ALL LOCATIONS IN ACCORDANCE WITH NEC AND MANUFACTURER'S REQUIREMENTS. SIGN IS FURNISHED WITH AN INTEGRAL PRE-WIRED DISCONNECTING MEANS.
25	ROUTE THROUGH CONTROL PANEL CFA-T500 AND CONTROLLED BY OCCUPIED SWITCH AND PHOTOCELL.
41	ROUTE ELECTRICAL CONDUITS TO UNIT CONNECTIONS THROUGH WEATHERPROOF RACEWAY FURNISHED WITH UNIT. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATIONS.
42	MOUNT WEATHER-PROOF FUSED DISCONNECT SWITCHES FOR WIC AND WIF CONDENSERS ON UNISTRUT WITH CONDUIT DOWN INTO CEILING SPACE BELOW THRU ROOF PENETRATION DEVICE (NOT THRU ROOF), SEE THE ARCHITECTURAL ROOF PENETRATION DETAIL(S) FOR FURTHER INFORMATION. PROVIDE FUSE SIZE PER MANUFACTURER REQUIREMENTS.
43	CONNECT ONE PHOTOCELL ON ROOF TO THE CFA-T500 CONTROL PANEL TERMINALS AND ONE PHOTOCELL ON ROOF TO THE ORDER/OMD CANOPY CONTROL PANEL AS DIRECTED BY SUNCOAST ENVIRONMENTAL INC WIRING DIAGRAMS. PHOTOCELLS ON THE ROOF FURNISHED WITH CONTROL PANELS ORDER (SUNCOAST) AND INSTALLED BY CONTRACTOR.
44	COORDINATE EXACT LOCATION OF CONDUIT AND DISCONNECT AT EXHAUST FAN. CONDUIT SHALL BE INSTALLED THROUGH ROOF ON OUTSIDE OF FAN CURB. CONDUIT SHALL BE LOCATED AT FAN HINGE SUCH THAT THE FAN HOOD CAN BE FULLY HINGED OPEN AND NOT TOUCH THE CONDUIT. PROVIDE 14" DIAMETER LOOP IN THE FLEXIBLE CONDUIT BETWEEN THE ROOF AND THE FAN ELECTRICAL CONNECTION.
48	COORDINATE EXACT LOCATION OF CONDUIT AND DISCONNECT AT EXHAUST FAN. CONDUIT SHALL BE ROUTED WITH DUCTWORK WITHIN FAN ROOF CURB AND TO THE FAN WIREWAY. PROVIDE SEALTIGHT FITTINGS AS THE CONDUIT ENTERS AND LEAVES THE DUCTWORK. INTERLOCK WITH LIGHTING CIRCUIT IN RESTROOM. REFER TO THE LIGHTING PLAN FOR CONTINUATION.
50	CONNECT POWER FROM EACH CONDENSING UNIT'S COMPRESSOR CONTACTOR TO THE EVAPORATOR COIL UNIT'S JUNCTION BOX BELOW. REFER TO ENLARGED KITCHEN POWER PLAN FOR LOCATION.
51	CONTRACTOR SHALL PROVIDE POWER TO CONVIENCE RECEPTACLE SUPPLIED WITH THE AC UNIT.
52	A/C UNIT DISCONNECT IS FURNISHED WITH A/C UNIT AND SHALL BE CONNECTED BY THE CONTRACTOR.
53	EXHAUST FAN IS FURNISHED WITH A PREWIRED DISCONNECT.

NOTE: REFER TO MECHANICAL DRAWINGS FOR ROOFTOP PACKAGED AC UNIT SCHEDULE. ALL UNITS ARE FURNISHED WITH FACTORY INSTALLED DISCONNECT SWITCH. REFER TO SAME SCHEDULE FOR INDICATION OF UNITS FURNISHED WITH FACTORY RECEPTACLE FOR COMPLIANCE WITH NEC.

ELECTRICAL ROOFTOP UNIT EQUIPMENT SCHEDULE (LENNOX)

DESIGNATION	VOLTAGE	PHASE	MCA	MOCP	LOAD (VA)	MARK NO.*
AC#1	208	3	137	150	45,033	34
AC#2	208	3	28	40	10,087	13
AC#3	208	3	92	100	33,505	30
AC#4	208	3	28	40	10,087	13

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FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
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SHEET
ROOF POWER PLAN

SHEET NUMBER
E-105

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50-LS-05484-E-105-ROOF POWER PLAN

COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: Chick-Fil-A - Custer and Washington
Project Type: New Construction

Construction Site: Washington St Helena, Montana 59602
Owner/Agent:
Designer/Contractor:

Additional Efficiency Package(s)

Credits: 10.0 Required 10.5 Proposed
10% cooling efficiency improvement, 2.5 credit
Reduced lighting power, 8.0 credit

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-DINING (Common Space Types:Dining Area - Cafeteria/Fast Food)	2133	0.40	853
2-ENTRY VEST (Common Space Types:Corridor/Transition <8 ft wide)	86	0.41	35
3-TECH CLOSET (Common Space Types:Electrical/Mechanical)	34	0.43	15
4-RISER (Common Space Types:Electrical/Mechanical)	41	0.43	18
5-RR VEST (Common Space Types:Corridor/Transition <8 ft wide)	109	0.41	45
6-OFFICE (Common Space Types:Office - Enclosed)	76	0.74	56
7-TEAM MEMBER ROOM (Common Space Types:Conference/Meeting/Multipurpose)	138	0.97	134
8-WOMEN (Common Space Types:Restrooms)	228	0.63	144
9-MEN (Common Space Types:Restrooms)	182	0.63	115
10-DRIVE-THRU (Common Space Types:Food Preparation)	316	1.09	344
11-PLAY (Gymnasium/Fitness Center:Playing Area)	298	0.85	253
12-SERVING (Common Space Types:Food Preparation)	257	1.09	280
13-KITCHEN/SERVICE (Common Space Types:Food Preparation)	1525	1.09	1662
		Total Allowed Watts =	3954

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-DINING (Common Space Types:Dining Area - Cafeteria/Fast Food)				
D3/D3E: D3/D3E: Downlight: Other:	1	52	21	1092
U: U: Pendant Light: Other:	1	5	9	45
P1: P1: Pendant Light: Other:	1	4	22	88
2-ENTRY VEST (Common Space Types:Corridor/Transition <8 ft wide)				
D3/D3E: D3/D3E: Downlight: Other:	1	2	21	42
3-TECH CLOSET (Common Space Types:Electrical/Mechanical)				
G1: G1: Striplight: Other:	1	1	44	44

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
4-RISER (Common Space Types:Electrical/Mechanical)				
G1: G1: Striplight: Other:	1	1	44	44
5-RR VEST (Common Space Types:Corridor/Transition <8 ft wide)				
D3/D3E: D3/D3E: Downlight: Other:	1	3	21	63
6-OFFICE (Common Space Types:Office - Enclosed)		2		
A2/A2E: A2/A2E: 2x2 LED Panel: Other:	1	2	39	78
7-TEAM MEMBER ROOM (Common Space Types:Conference/Meeting/Multipurpose)				
D3/D3E: D3/D3E: Downlight: Other:	1	4	21	84
8-WOMEN (Common Space Types:Restrooms)				
D3/D3E: D3/D3E: Downlight: Other:	1	6	21	126
N: N: Vanity Light: Other:	1	2	12	24
9-MEN (Common Space Types:Restrooms)				
D3/D3E: D3/D3E: Downlight: Other:	1	4	21	84
N: N: Vanity Light: Other:	1	2	12	24
10-DRIVE-THRU (Common Space Types:Food Preparation)				
A2/A2E: A2/A2E: 2x2 LED Flat Panel: Other:	1	7	39	273
11-PLAY (Gymnasium/Fitness Center:Playing Area)				
D3/D3E: D3/D3E: Downlight: Other:	1	9	21	189
12-SERVING (Common Space Types:Food Preparation)				
D3/D3E: D3/D3E: Downlight: Other:	1	4	21	84
F: F: Surface Light: Other:	1	4	9	36
13-KITCHEN/SERVICE (Common Space Types:Food Preparation)		2		
A2/A2E: A2/A2E: 2x2 LED Flat Panel: Other:	1	28	39	1092
		Total Proposed Watts =		3512

Interior Lighting PASSES: Design 11% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Carmen Lee — Name - Title
Signature
10/01/25 — Date

COMcheck Software Version COMcheckWeb

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: Chick-Fil-A - Custer and Washington
Project Type: New Construction
Exterior Lighting Zone 3 (Other (LZ3))

Construction Site: Washington St Helena, Montana 59602
Owner/Agent:
Designer/Contractor:

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Parking Area (Parking area)	73511 ft2	0.06	Yes	4411
Driveway (Driveway)	19623 ft2	0.06	Yes	1177
Canopy (Free standing/attached sales canopy)	4141 ft2	0.6	Yes	2485
Building Perimeter (Illuminated area of facade wall or surface)	4471 ft2	0.11	No	505
		Total Tradable Watts (a) =		8073
		Total Allowed Watts =		8578
		Total Allowed Supplemental Watts (b) =		500

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 500 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Parking Area (Parking area, 73511 ft2): Tradable Wattage				
OD2: OD2: Pole Mounted Light: Other:	1	1	151	151
OD3: OD3: Pole Mounted Light - Two Heads: Other:	1	9	302	2718
OD4: OD4: Pole Mounted Light - Three Head: Other:	1	2	453	906
Driveway (Driveway, 19623 ft2): Tradable Wattage				
OD1: OD1: Pole Mounted Light w/ HSS: Other:	1	1 9	151 2	1359
Canopy (Free standing/attached sales canopy, 4141 ft2): Tradable Wattage				
Z2: Z2: Canopy Light: Other:	1	16	74	1184
Building Perimeter (Illuminated area of facade wall or surface, 4471 ft2): Non-tradable Wattage				
OA: OA: Wall Mounted Light Fixture: Other:	1	13	24	312
OB: OB: Wall Mounted Light Fixture: Other:	1	5	12	60
		Total Tradable Proposed Watts =		6318

Exterior Lighting PASSES: Design 26% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Carmen Lee — Name - Title
Signature
10/01/25 — Date

COMcheck Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2021 IECC

Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C103.2 [PR8][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C406 [PR9][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3.1 [EL22][1]	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1, C405.2.1.1 [EL18][1]	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, corridors, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1.2 [EL19][1]	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more within 20 minutes of when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor. Lights not turned off by occupant sensors is done so by time-switch.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1.3 [EL20][1]	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) general lighting in each zone permitted to turn on upon occupancy in control zone, 3) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 4) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.2, C405.2.2.1 [EL21][2]	Each area not served by occupancy sensors (per C405.2.1.1) have time-switch controls and functions detailed in sections C405.2.2.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.4, C405.2.4.1, C405.2.4.2 [EL23][2]	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.5 [EL27][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.7 [EL28][1]	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.7 [EL26][2]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.8 [EL27][2]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.9.1, C405.9.2 [EL28][2]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.10 [EL29][2]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.1.1 [EL30][2]	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.11, C405.11.1 [EL31][2]	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17][3]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.5.1 [FI19][1]	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Exterior Lighting fixture schedule for values.*
C408.1.1 [FI57][1]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5 [FI16][3]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.3 [FI33][1]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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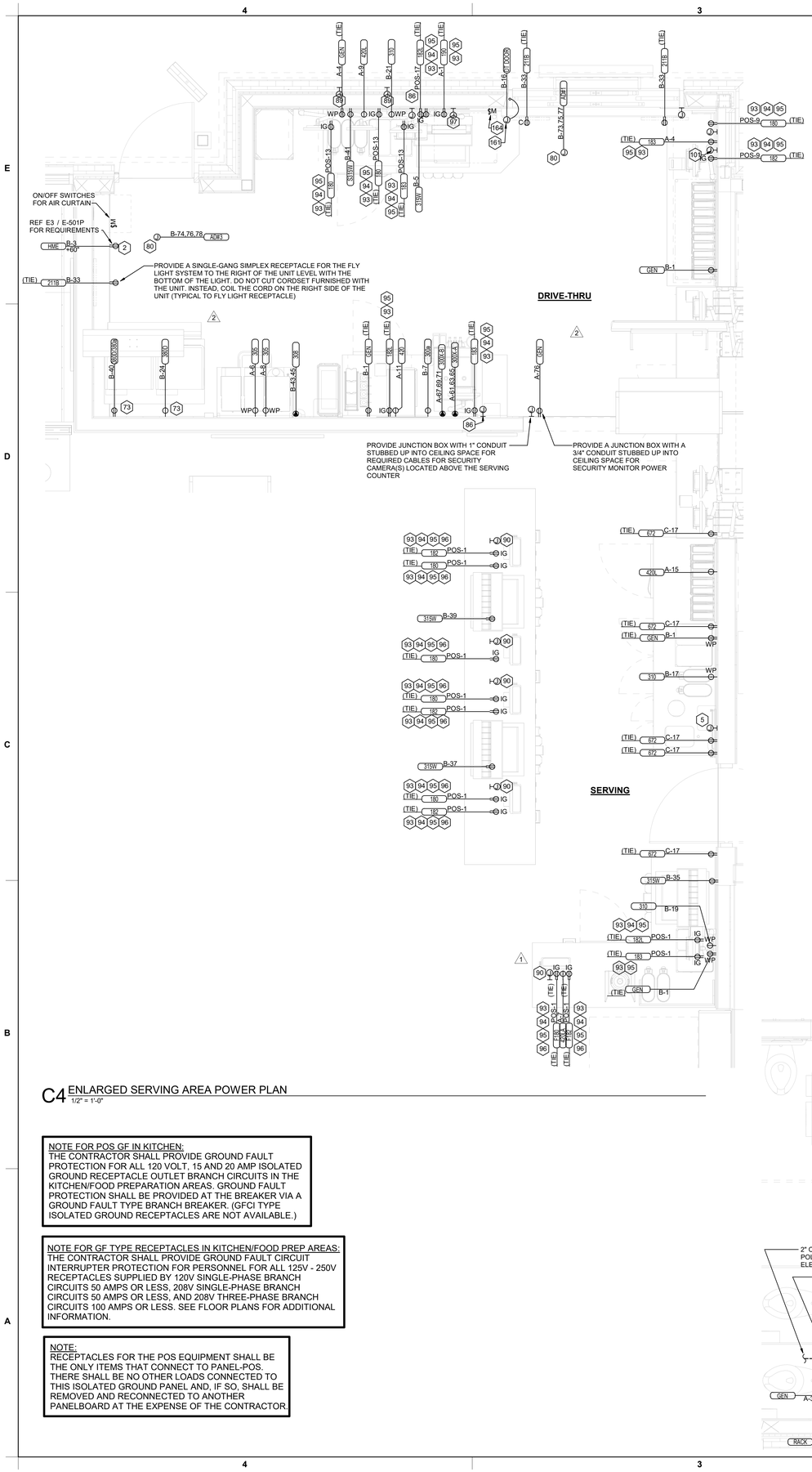
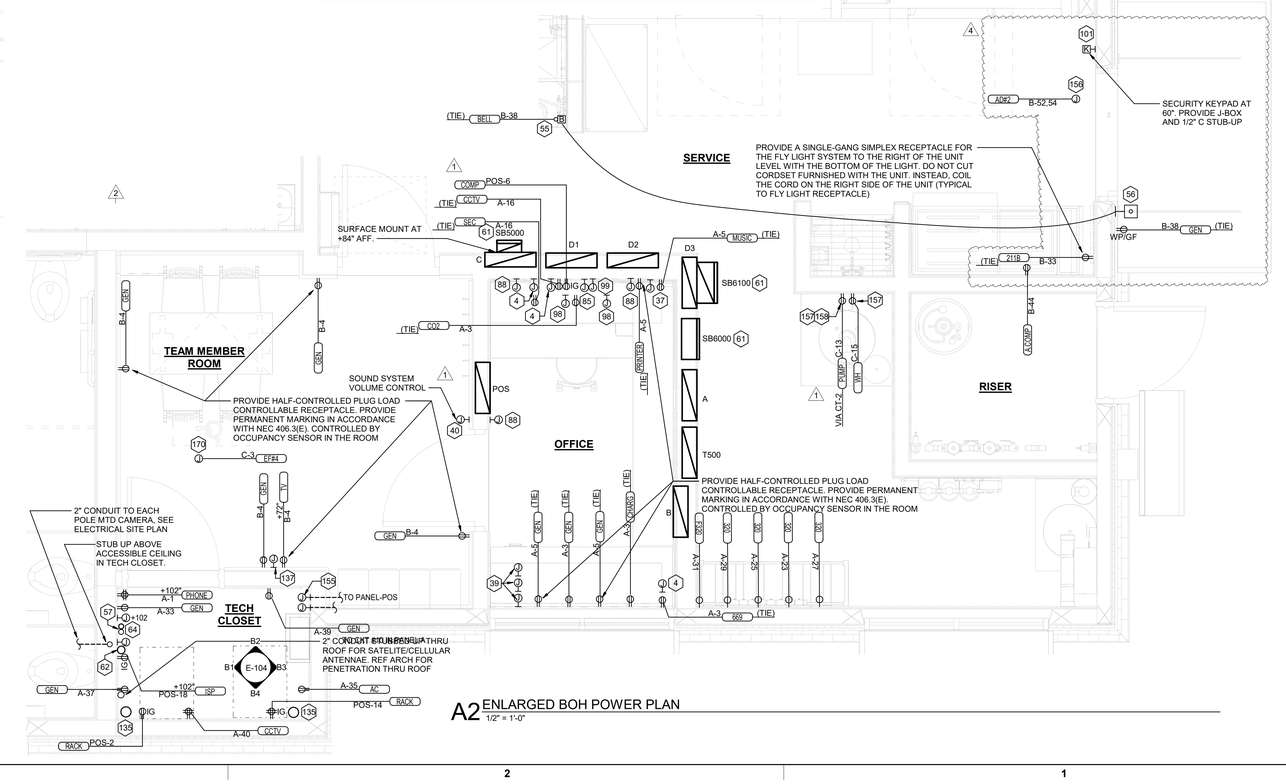


C4 ENLARGED SERVING AREA POWER PLAN
1/2" = 1'-0"

NOTE FOR POS GF IN KITCHEN:
THE CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL 120 VOLT, 15 AND 20 AMP ISOLATED GROUND RECEPTACLE OUTLET BRANCH CIRCUITS IN THE KITCHEN/FOOD PREPARATION AREAS. GROUND FAULT PROTECTION SHALL BE PROVIDED AT THE BREAKER VIA A GROUND FAULT TYPE BRANCH BREAKER. (GFCI TYPE ISOLATED GROUND RECEPTACLES ARE NOT AVAILABLE.)

NOTE FOR GF TYPE RECEPTACLES IN KITCHEN/FOOD PREP AREAS:
THE CONTRACTOR SHALL PROVIDE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION FOR PERSONNEL FOR ALL 125V - 250V RECEPTACLES SUPPLIED BY 120V SINGLE-PHASE BRANCH CIRCUITS 50 AMPS OR LESS, 208V SINGLE-PHASE BRANCH CIRCUITS 50 AMPS OR LESS, AND 208V THREE-PHASE BRANCH CIRCUITS 100 AMPS OR LESS. SEE FLOOR PLANS FOR ADDITIONAL INFORMATION.

NOTE:
RECEPTACLES FOR THE POS EQUIPMENT SHALL BE THE ONLY ITEMS THAT CONNECT TO PANEL-POS. THERE SHALL BE NO OTHER LOADS CONNECTED TO THIS ISOLATED GROUND PANEL AND, IF SO, SHALL BE REMOVED AND RECONNECTED TO ANOTHER PANELBOARD AT THE EXPENSE OF THE CONTRACTOR.



A2 ENLARGED BOH POWER PLAN
1/2" = 1'-0"

ELECTRICAL KEYNOTES

2 PROVIDE JUNCTION BOX, LESS COVER PLATE, AND EXTEND 1-1/2" CONDUIT UP IN WALL TO ABOVE CEILING FOR INSTALLATION OF WIRELESS COMMUNICATION CONTROL UNIT.
4 PROVIDE SINGLE-GANG JUNCTION BOX WITH A 1" EMPTY CONDUIT STUBBED UP INTO THE ACCESSIBLE CEILING SPACE FOR OWNER'S VOIP PHONE JACK AND CABLES.
5 PROVIDE SINGLE-GANG JUNCTION BOX WITH A 3/4" EMPTY CONDUIT STUBBED UP INTO THE ACCESSIBLE CEILING SPACE FOR THE DIGITAL MENU BOARD MEDIA ENGINE CABLES.
37 PROVIDE JUNCTION BOX WITH STAINLESS STEEL COVER PLATE AND 3/4" HOLE IN PLATE WITH GROMMET ON HOLE IN PLATE. EXTEND 3/4" CONDUIT UP IN WALL TO ABOVE CEILING FOR MUSIC SYSTEM.
39 THREE SINGLE GANG EXTRA DEEP J-BOXES STACKED WITH A 1/2" CONDUIT FROM EACH TO THE TOP J-BOX BOX AND A 1" CONDUIT STUBBED INTO THE CEILING SPACE FOR MUSIC SYSTEM VOLUME CONTROLS PROVIDED BY OWNER'S VENDOR.
40 PROVIDE A SINGLE GANG EXTRA DEEP JUNCTION BOX AT 74" AFF WITH 1/2" CONDUIT STUBBED INTO THE CEILING SPACE FOR MUSIC SYSTEM VOLUME CONTROLS.
55 PROVIDE EDWARDS #340-4N5 VIBRATING 4" DIAMETER BELL. THE BELL SHALL BE RATED AT 120 VOLTS.
56 PROVIDE A 120 VOLT WEATHERPROOF DOORBELL PUSHBUTTON AT DOOR. PUSHBUTTON SHALL BE FLUSH MOUNTED. PROVIDE DORTRONICS SYSTEMS #W5286-P25 CLEAR ANODIZED ALUMINUM PUSHBUTTON WITH SINGLE GANG SWITCHPLATE.
57 TWO 2" TELEPHONE SERVICE ENTRANCE CONDUIT(S). EXTEND WITH PULL STRING FROM TELEPHONE SERVICE J-BOX TO THE UTILITY SOURCE. REFER TO THE ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION.
61 SB6000 PANEL ENCLOSURE WITH 3 LITTLEFUSE SHOCKBLOCK GFCI PROTECTION DEVICES, SB6100 SHOCK BLOCK GFCI PROTECTION DEVICE, AND SB5000 SHOCK BLOCK GFCI PROTECTION DEVICE. ENSURE CONDUITS ARE INSTALLED FOR LINE AND LOAD WIRES TO BE INSTALLED WITH PROPER WIRE BENDING SPACE. LABEL EACH SHOCK BLOCK WITH PANEL AND CIRCUIT NUMBER IT CONTROLS.
62 ONE 3" ISP SERVICE CONDUIT. EXTEND WITH PULL STRING FROM J-BOX TO SUPPLIER'S SOURCE, REFER TO ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION.
64 PROVIDE TWO 6"H X 6"W X 4"D J-BOXES (ONE FOR TELEPHONE AND ONE FOR ISP) AT 6'-6" AFF AND EXTEND A 2" CONDUIT WITH PULL STRING IN THE WALL FROM EACH J-BOX INTO THE ACCESSIBLE CEILING SPACE. PROVIDE A 36" X 36" X 3/4" PLYWOOD BACKBOARD ON THE WALL ABOVE THE J-BOXES (AT THE CEILING) FOR USE BY THE ISP. PROVIDE A COPPER GROUND BAR (EQUAL TO ERICO TGBA24L14P) AT THE BOTTOM OF THE BACKBOARD WITH A #6 AWG INSULATED CU GROUNDING CONDUCTOR IN A 3/4"C FROM THE GROUND BAR TO THE INTER SYSTEM BONDING TERMINATION NEXT TO THE SERVICE ENTRANCE. THE GROUND BAR SHALL HAVE TAPS FOR USE BY THE TELEPHONE AND ISP UTILITY COMPANIES AND FOR THE #6 COMMUNICATIONS GROUNDING CONDUCTOR TO THE GES. PROVIDE A 15 AMP ISOLATED GROUND (IG) ORANGE-FACED DUPLEX RECEPTACLE IN THE WALL BESIDE THE BACKBOARD AND LABEL THE RECEPTACLE "FOR FIBER TO CABLE MODEM USE ONLY". BOND NETWORK RACKS TO GROUND BAR.
73 SEE THE ELECTRICAL ROOF PLAN FOR THE LOCATION OF THE ICE MAKER CONDENSERS AND ANY ADDITIONAL REQUIREMENTS.
80 JUNCTION BOX ABOVE CEILING FOR AIR CURTAIN.
85 PROVIDE A 'RETROFIT' DOUBLE GANG RING (CARLON #SC200RR) FOR OWNER'S DEVICE PLATE WITH A 1 1/4" EMPTY CONDUIT AT THE OPENING STUBBED UP INTO THE CEILING SPACE FOR OWNER'S DATA CABLES.
86 PROVIDE SINGLE-GANG JUNCTION BOX WITH A 1" CONDUIT EXTENDING UP INTO THE CEILING SPACE FOR POS MONITOR(S). COVER PLATE PROVIDED BY OWNER'S POS SYSTEM VENDOR.
88 PROVIDE A 'RETROFIT' SINGLE GANG RING (CARLON #SC100RR) FOR OWNER'S DEVICE PLATE WITH A 1" EMPTY CONDUIT AT THE OPENING STUBBED UP INTO THE CEILING SPACE FOR OWNER'S DATA CABLES.
89 PROVIDE SINGLE-GANG JUNCTION BOX WITH A 1" CONDUIT EXTENDING UP INTO THE CEILING SPACE FOR POS TERMINAL. POS SYSTEM SUPPLIER WILL PROVIDE COVER PLATE ON BOX.
90 PROVIDE SINGLE-GANG EXTRA DEEP JUNCTION BOX MOUNTED ON THE MOUNTING PLATE WITHIN THE FRONT SERVING COUNTER CASEWORK. MOUNT BOX ADJACENT TO THE RECEPTACLE FOR EQUIPMENT 180. DO NOT MOUNT BOX BETWEEN EQUIPMENT 180 AND EQUIPMENT 182 RECEPTACLES.
93 PROVIDE ORANGE ISOLATED GROUND (IG) DUPLEX RECEPTACLE.
94 PROVIDE GROUND FAULT PROTECTION FOR THESE DEVICES VIA A GROUND FAULT CIRCUIT BREAKER IF LOCAL CODE DEFINES THIS A FOOD PREPARATION AREA.
95 USE TYPE MC CABLE FOR THE ISOLATED GROUND CIRCUIT: #12 HOT, NEUTRAL, GREEN GROUND, STRIPED ISOLATED GROUND. EACH 15 AMP HOMERUN SHALL BE DEDICATED TO A CIRCUIT BREAKER VIA DEDICATED CONDUCTORS WITHIN A CABLE ASSEMBLY. ALL MC CABLES SHALL BE RUN OVERHEAD ABOVE THE CEILING AND RACKED TOGETHER ON J-HOOKS. NO SPLICES IN ANY HOMERUN CABLES FROM FIRST RECEPTACLE TO BREAKER.
96 THE RECEPTACLE BACKBOX AND SYSTEM CABLE JUNCTION BOX FOR ITEMS 180 AND 182 SHALL BE TURNED HORIZONTAL. REFER TO THE KITCHEN EQUIPMENT ROUGH-IN ELEVATIONS FOR ADDITIONAL INFORMATION.

ELECTRICAL KEYNOTES

97 PROVIDE SINGLE GANG JUNCTION BOX AND STAINLESS STEEL COVER PLATE WITH 7/8" HOLE IN CENTER FOR VIDEO MONITOR. EXTEND 1" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING.
98 PROVIDE 4"W X 4"H X 3"D FLUSH JUNCTION BOX WITHOUT A COVERPLATE. EXTEND 2" CONDUIT UP TO ABOVE ACCESSIBLE OFFICE CEILING AREA AND PROVIDE BUSHING ON CONDUIT.
99 PROVIDE 4"W X 4"H X 3" D JUNCTION BOX WITHOUT COVERPLATE AND EXTEND A 2" CONDUIT DOWN THROUGH SLAB AND BELOW GRADE TO EACH OF THE SITE'S POLE MOUNTED CAMERA LOCATIONS (SEE ELECTRICAL SITE PLAN FOR CONTINUATION) AND A 2" CONDUIT UP INTO THE ACCESSIBLE CEILING SPACE WITH A BUSHING ON THE CONDUIT END. PROVIDE A SINGLE-GANG JUNCTION BOX ADJACENT TO THE DOUBLE-GANG BOX WITH A 1.5" CONDUIT DOWN TO A SECOND SINGLE-GANG JUNCTION BOX AT THE CCTV MONITOR LOCATION.
101 PROVIDE SINGLE GANG BOX WITHOUT COVER PLATE FOR RECEIPT PRINTER. EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING.
135 4" EMPTY CONDUIT FROM 6" ABOVE THE TOP OF THE NETWORK RACK TO ABOVE ACCESSIBLE CEILING.
137 SINGLE GANG JUNCTION BOX AT +72" A.F.F. WITH 3/4" CONDUIT STUB-UP INTO CEILING SPACE FOR TV.
155 LOCATION OF THE INPUT & OUTPUT J-BOXES FOR THE PIB (POWER INTERFACE BOX) PROVIDED BY THE OWNER.
156 AIR CURTAIN WITH MICROSWITCH FURNISED BY MECHANICAL CONTRACTOR.
157 PROVIDE PLUG AND CORDSET.
158 LABEL AS SWITCHED OUTLET.
161 CONCEAL CONNECTION FROM J-BOX TO DOOR IN WALL. POWER TO BE RUN THROUGH 1" MAX HOLE CENTERED IN THE WIDTH OF THE HEADER ABOVE WHERE DOOR JAMB LINES UP. VERIFY WITH STRUCTURAL ON EXACT LOCATION.
164 ON/OFF SWITCH FOR AIR CURTAIN PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.
170 LOCAL SWITCHING CIRCUIT TO CONTROL EMPLOYEE RESTROOM EXHAUST FAN EF#4. VERIFY LOCATION WITH MECHANICAL PLANS.

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FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
PRINTED FOR
PLAN CHECK - REV 4

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	07/11/2024	Plan Check - Rev 1
2	08/19/2025	CITY SUBMITTAL/CLIENT REVISIONS
4	10/20/2025	PLAN CHECK-REV 4

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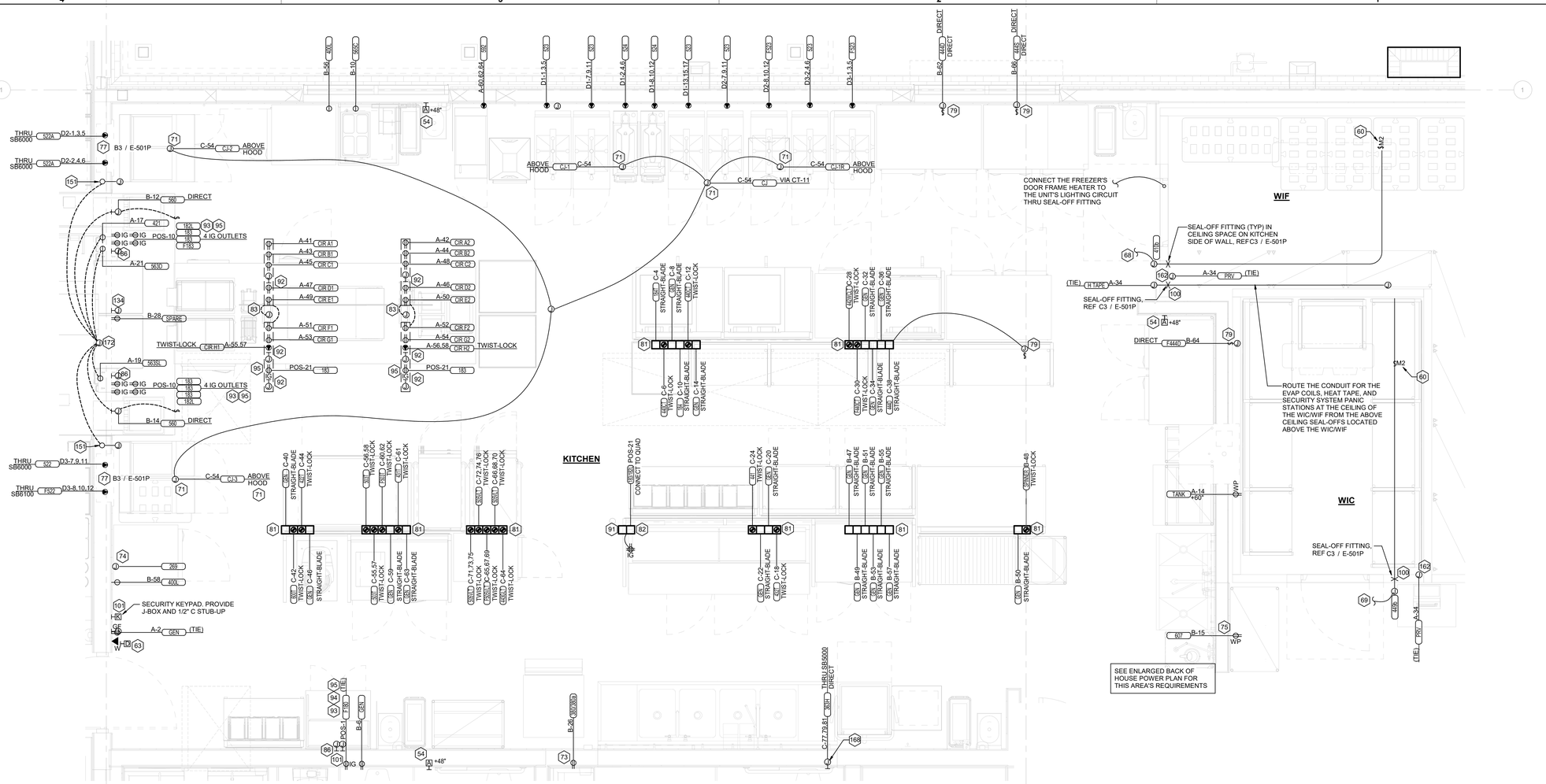
SHEET
ENLARGED SERVING AND BOH POWER PLAN

SHEET NUMBER
E-401P

11/12/2025 8:44:48 PM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_ELE.rvt
50-LS-05484-E-401P-ENLARGED SERVING AND BOH POWER PLAN



B1 ENLARGED KITCHEN POWER PLAN
1/2" = 1'-0"

ELECTRICAL KEYNOTES

54 PROVIDE TWO-GANG DEEP BOX (2" MIN.) FOR FS PULL STATION. EXTEND 1/2" CONDUIT FROM BOX, STUBBED ABOVE CEILING.

60 PROVIDE DISCONNECT SWITCH IN NEMA 3R ENCLOSURE AT THE UNIT'S EVAPORATOR COIL.

63 PROVIDE 2 GANG DEEP BOX (2" MIN.) FOR EACH DUCT SMOKE DETECTOR INDICATED ON THE MECHANICAL DRAWINGS FOR INSTALLATION OF DUCT DETECTOR REMOTE ANNUNCIATORS BY MECHANICAL. THE DUCT SMOKE REMOTE ANNUNCIATORS ARE PROVIDED TO THE ELECTRICIAN WITH THE SUNCOAST ELECTRONICS PACKAGE OF GEAR AND CONTROLS. EXTEND 1/2" CONDUIT FROM EACH BOX AND STUB ABOVE CEILING.

68 CONNECT EVAPORATOR UNIT IN FREEZER TO FREEZER CONDENSING UNIT CONTROLS LOCATED ON ROOF. SEE THE ELECTRICAL ROOF PLAN.

69 CONNECT EVAPORATOR UNIT IN COOLER TO COOLER CONDENSING UNIT CONTROLS LOCATED ON ROOF. SEE THE ELECTRICAL ROOF PLAN.

71 CONNECT AS REQUIRED TO CJ FAN VIA THE HOOD SUPPLIED SPEED CONTROLLER. CONNECT HOMERUN VIA A RELAY IN THE CFA-T500 CONTROL SECTION.

73 SEE THE ELECTRICAL ROOF PLAN FOR THE LOCATION OF THE ICE MAKER CONDENSERS AND ANY ADDITIONAL REQUIREMENTS.

74 PROVIDE 3#12 IN 1/2" CONDUIT BETWEEN THE CFA-T500 CONTROL PANEL AND THE FS SYSTEM PANEL(S). SEE FS SYSTEM WIRING DIAGRAM DETAIL ON SHEET E-702 FOR ADDITIONAL INFORMATION.

75 PROVIDE GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE RECEPTACLE IN COMPLIANCE WITH THE NEC REQUIREMENT FOR KITCHEN/FOOD PREP AREAS. IF THE RECEPTACLE OUTLET IS NOT NOTED AS GFCI, THEN THE BREAKER IS TO BE GFCI TYPE.

77 THE RECESSED PIN AND SLEEVE BOX WITH THE 'SLEEVE' RECEPTACLE FOR THE OPEN FRYERS (ITEMS #522 AND 522A) ARE FURNISHED BY THE EXHAUST HOOD SUPPLIER AND INSTALLED BY THE CONTRACTOR. THE OPEN FRYER SUPPLIER PROVIDES PREWIRED CORDSET WITH A PIN DEVICE INTERGRAL WITH THE OPEN FRYER TO PLUG INTO THE SLEEVE RECEPTACLE.

79 SINGLE POLE SWITCH SHALL SERVE AS THE LOCAL "IN-SIGHT" MEANS OF DISCONNECT FOR EQUIPMENT ITEM AS NOTED. SEE DIRECT CONNECTION DETAILS ON SHEET E-501 FOR FURTHER INFORMATION.

81 OVERHEAD EQUIPMENT POWER (OEP) DROP CORD RECEPTACLES FROM A FLUSH MOUNTED CEILING OEP BOX (MAXIMUM OF SIX PER ASSEMBLY.) PROVIDE A-C-S OEP ASSEMBLY #12360-1000. ASSEMBLY WILL CONSIST OF A FLUSH CEILING OUTLET BOX, TWIST-LOCK PENDANT RECEPTACLES, STRAIGHT BLADE PENDANT RECEPTACLES, CORDS, STRAIN RELIEF, AND TWISTLOCK PLUGS AS NOTED ON PLAN. CONTACT BRIDGID DEFRAMCESHI EMAIL: BRIDGID1985@GMAIL.COM (800-639-7584) TO PURCHASE OEP BOX AND DROP CORD/RECEPTACLES. PROVIDE LIQUID-TIGHT CONDUIT WITH CONDUCTORS FOR DIRECT CONNECTED EQUIPMENT. CONDUIT SHALL NOT TOUCH THE FLOOR WHEN EQUIPMENT IS IN PLACE. USE SUPPORT GRIPS W/ SUPPORT HOOK ATTACHED TO SHELVING ABOVE AS NEEDED. PASS & SEYMOUR MODEL #FS075-U-GH5 OR EQUIVALENT.

ELECTRICAL KEYNOTES

82 PROVIDE A DOUBLE-GANG BOX FLUSH MOUNTED IN THE CEILING WITH A BLANK PLATE WITH HOLE FOR A DROP CORD. PROVIDE THE #12 DROP CORD (WITH STRAIN RELIEF AT THE BOX AND AT THE OUTLET BACKBOX) AND CONNECT THE CORD TO AN OUTLET BOX CONTAINING TWO 15 AMP IG (ORANGE) DUPLEX OUTLETS. OUTLET BOX TO BE MOUNTED TO THE OVERHEAD SHELVING AT THE PRINTER AND MONITOR MOUNTING BRACKET.

83 COORDINATE WITH THE EQUIPMENT SUPPLIER FOR THE CHASE LOCATIONS. ROUTE ONE SET OF CIRCUIT 'A' THRU 'H' AND POS CIRCUIT TO EACH JUNCTION BOX PROVIDED ABOVE CEILING. CONNECT TO PREWIRED LABELED CIRCUITS. ENSURE CIRCUITS ARE LABELED CORRECTLY FOR EACH PREWIRED OUTLET PROVIDED IN EACH CHASE.

86 PROVIDE SINGLE-GANG JUNCTION BOX WITH A 1" CONDUIT EXTENDING UP INTO THE CEILING SPACE FOR POS MONITOR(S). COVER PLATE PROVIDED BY OWNER'S POS SYSTEM VENDOR.

91 PROVIDE A SINGLE GANG BOX FLUSH MOUNTED IN THE CEILING FOR THE POS DATA PLATE (BY OTHERS) FOR THE SALAD PREP AREA POS MONITOR AND PRINTER.

92 3/4" FLEX PROVIDED FOR DATA CABLES IN CHASE.

93 PROVIDE ORANGE ISOLATED GROUND (IG) DUPLEX RECEPTACLE.

94 PROVIDE GROUND FAULT PROTECTION FOR THESE DEVICES VIA A GROUND FAULT CIRCUIT BREAKER IF LOCAL CODE DEFINES THIS A FOOD PREPARATION AREA.

95 USE TYPE MC CABLE FOR THE ISOLATED GROUND CIRCUIT: #12 HOT, NEUTRAL, GREEN GROUND, STRIPED ISOLATED GROUND. EACH 15 AMP HOMERUN SHALL BE DEDICATED TO A CIRCUIT BREAKER VIA DEDICATED CONDUCTORS WITHIN A CABLE ASSEMBLY. ALL MC CABLES SHALL BE RUN OVERHEAD ABOVE THE CEILING AND RACKED TOGETHER ON J-HOOKS. NO SPLICES IN ANY HOMERUN CABLES FROM FIRST RECEPTACLE TO BREAKER.

100 PROVIDE TWO GANG WEATHERPROOF JUNCTION BOX AND STAINLESS STEEL PLATE WITH 7/8" HOLE IN CENTER FOR PANIC BUTTON. LOCATE AT 48" AFF AND EXTEND 1/2" CONDUIT UP TO ABOVE ACCESSIBLE CEILING WITH CONDUIT SEAL FITTING. SEAL CONDUIT PENETRATION AT WIC/WIF CEILING.

101 PROVIDE SINGLE GANG BOX WITHOUT COVER PLATE FOR RECEIPT PRINTER. EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING.

134 PROVIDE A JUNCTION BOX WITH A 1" CONDUIT FOR DATA AND/OR SYSTEMS STUBBED UP INTO CEILING SPACE FOR APPROVED OPERATOR OPTIONAL EQUIPMENT.

151 PROVIDE J-BOX WITH 1" FLEX CONDUIT FROM ACCESSIBLE CEILING SPACE DOWN WALL TO ELECTRICAL CHASE IN MILLWORK STUBBED OUT AT 2"-4" AFF. PROVIDE 6' EXTRA FLEX CONDUIT COILED UP AT INSIDE FACE OF JAMB. ROUTE FLEX CONDUIT TO 6" X 6" J-BOX INSIDE MILLWORK CHASE. ROUTE BRANCH CIRCUITS FROM 6" X 6" J-BOX TO INDIVIDUAL PIECES OF EQUIPMENT FOR CIRCUITS WITHIN THE MILLWORK.

ELECTRICAL KEYNOTES

162 PROVIDE J-BOX AND EXPANSION RING FOR PRESSURE RELIEF VALVE ELECTRICAL CONNECTIONS TO THE WALK-IN COOLER/FREEZER. INSTALL PER MANUFACTUERER'S INSTRUCTIONS.

168 PROVIDE IN-SIGHT DISCONNECT SWITCH IF REQUIRED BY AHJ. OTHERWISE PROVIDE PAD-LOCKING DEVICE ON BRANCH BREAKER.

172 PROVIDE 6"H X 6"W JUNCTION BOX BEHIND MILLWORK ACCESS PANEL ON FRY WARMER SIDE. PROVIDE MC CABLE TO ADJACENT CIRCUITS WITHIN THE MILLWORK, AS INDICATED.

NOTE FOR GF TYPE RECEPTACLES IN KITCHEN/FOOD PREP AREAS:
THE CONTRACTOR SHALL PROVIDE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION FOR PERSONNEL FOR ALL 125V - 250V RECEPTACLES SUPPLIED BY 120V SINGLE-PHASE BRANCH CIRCUITS 50 AMPS OR LESS, 208V SINGLE-PHASE BRANCH CIRCUITS 50 AMPS OR LESS, AND 208V THREE-PHASE BRANCH CIRCUITS 100 AMPS OR LESS. SEE FLOOR PLANS FOR ADDITIONAL INFORMATION.

NOTE FOR POS GF IN KITCHEN:
THE CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL 120 VOLT, 15 AND 20 AMP ISOLATED GROUND RECEPTACLE OUTLET BRANCH CIRCUITS IN THE KITCHEN/FOOD PREPARATION AREAS. GROUND FAULT PROTECTION SHALL BE PROVIDED AT THE BREAKER VIA A GROUND FAULT TYPE BRANCH BREAKER. (GFCI TYPE ISOLATED GROUND RECEPTACLES ARE NOT AVAILABLE.)

NOTE:
RECEPTACLES FOR THE POS EQUIPMENT SHALL BE THE ONLY ITEMS THAT CONNECT TO PANEL-POS. THERE SHALL BE NO OTHER LOADS CONNECTED TO THIS ISOLATED GROUND PANEL AND, IF SO, SHALL BE REMOVED AND RECONNECTED TO ANOTHER PANELBOARD AT THE EXPENSE OF THE CONTRACTOR.

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FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
PRINTED FOR
PLAN CHECK - REV 4

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	07/11/2024	Plan Check - Rev 1
2	08/19/2025	CITY SUBMITTAL/CLIENT REVISIONS

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SHEET
ENLARGED KITCHEN POWER PLAN

SHEET NUMBER
E-402P

11/12/2025 8:44:53 PM Autodesk Docs://MT_05484_Custer & Washington FSU_2023-10_FSR05484_Custer & Washington FSU_ELE.rvt
50-LS-05484-E-402P-ENLARGED KITCHEN POWER PLAN

ELECTRICAL KEYNOTES

117 CEILING LIGHT PROVIDED BY CANOPY SUPPLIER AND INSTALLED BY E.C.

118 (2) 2" UNDERGROUND SCH40 PVC CONDUIT FOR MENU BOARD FIBER. PROVIDE PULL STRING. STUB UP INTO ACCESSIBLE CEILING SPACE AT DTT CLOSET OR OFFICE IF NO DTT CLOSET.

119 AIR CIRCULATING FAN (WITH INTEGRAL ON-OFF SWITCH) PROVIDED BY OTHERS. PROVIDE A DUPLEX OUTLET (WITH IN-USE COVER PLATE) FLUSH MOUNTED IN CUT-OUT AT TOP OF COLUMN FOR FAN'S PLUG AND CORD. OUTLET TO BE ON DOWNSTREAM SIDE OF COLUMN AND AWAY FROM ONCOMING VEHICLES' VIEW.

120 INFRARED GAS HEATER WITH INTEGRAL ON-OFF SWITCH PROVIDED BY OTHERS.

121 MENUBOARD PROVIDED BY OTHERS.

122 PROVIDE IN-GROUND QUAZITE PULLBOX FOR MLOP DATA CABLES WITH POWER NEMA 3R JUNCTION BOX MOUNTED INSIDE THE PULLBOX.

123 2" UNDERGROUND SCH40 PVC CONDUIT WITH POWER CIRCUITS, SEE WIRING SCHEMATIC.

124 2" EMPTY UNDERGROUND SCH40 PVC CONDUIT FOR OWNER'S DETECTOR LOOP CABLES. EXTEND CONDUITS UP INTO ACCESSIBLE CEILING SPACE ABOVE THE HME BOX IN THE DRIVE THRU AREA.

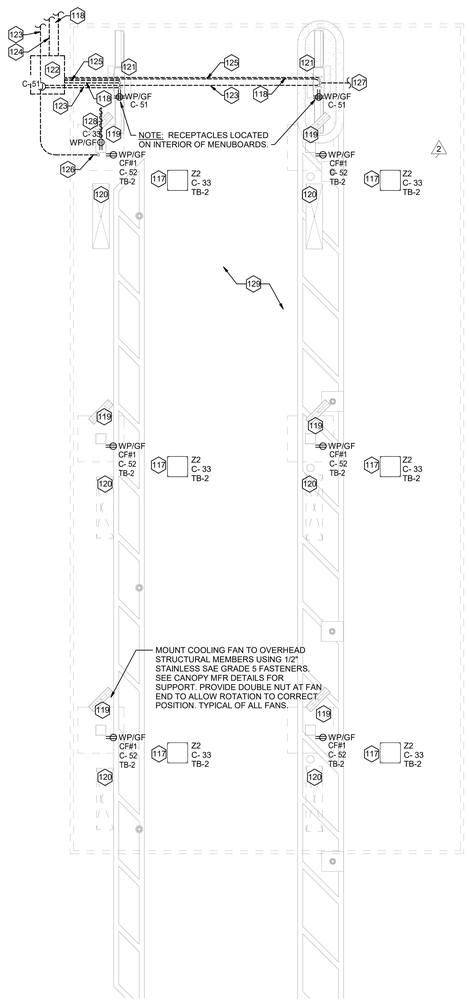
125 1" EMPTY UNDERGROUND SCH40 PVC CONDUIT FOR OWNER'S AUDIO SYSTEM/DETECTOR LOOP CABLES.

126 INSTALL UNDERGROUND 3" SCH40 PVC CONDUIT UP INTO THE CANOPY COLUMN WITH TYPE MC CABLE (GALVANIZED STEEL WITH PVC JACKET) RUN WITHIN FOR THE 120V POWER FOR LIGHTS, 120 VOLT POWER FOR FANS, AND 24 VOLT POWER FOR THE INFRARED GAS HEATERS.

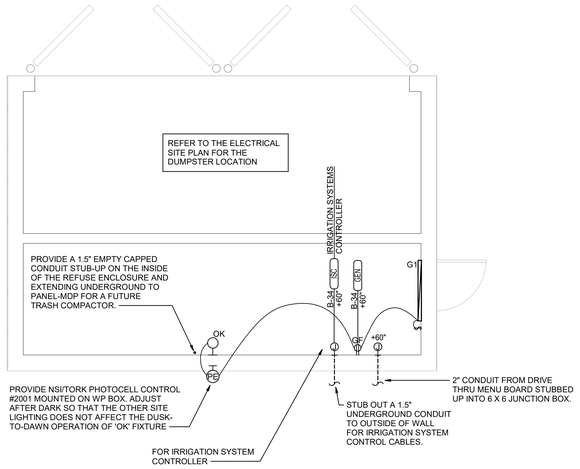
127 2" CONDUIT FROM DRIVE-THRU MENU BOARD TO DUMPSTER ENCLOSURE ROOM FOR WIFI AND CAMERA CABLES.

128 PROVIDE ONE DUPLEX GFCI (WITH IN-USE WP COVER PLATE), TWO 120V SINGLE-POLE SWITCHES (EACH WITH HUBBELL #RW51550 WP COVER PLATE), AND ONE DUPLEX SINGLE-POLE SWITCH (WITH HUBBELL #RW51470 WP COVER PLATE) MOUNTED ON THE COLUMN IN B12 PLATES TO BE FIELD PAINTED MATTE BLACK.

129 ALL CONDUIT AND BOXES SHALL BE CONCEALED FROM NORMAL VIEW; UNDERGROUND, IN COLUMNS, OR ABOVE THE CANOPY (ON THE ROOF). MC CABLE (GALVANIZED STEEL WITH PVC JACKET) TO BE USED INSIDE THE COLUMNS, BUT MUST CONVERT BACK TO IMC ABOVE THE ROOF. REFER TO THE MECHANICAL DRAWINGS FOR LOCATIONS OF GAS PIPING ABOVE THE ROOF AND INSTALL CONDUIT ALONG THE SAME LOCATIONS USING THE SAME PIPE STAND FOR PIPING AND CONDUIT. ALL EXPOSED ELECTRICAL BOXES TO BE NEMA 3R CAST-METAL.



B4 MLOP ORDER CANOPY POWER PLAN
1/4" = 1'-0"



C2 REFUSE ENCLOSURE ELECTRICAL PLAN
1/4" = 1'-0"

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FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
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PLAN CHECK - REV 4

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
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2	08/19/2025	CITY SUBMITTAL/CLIENT REVISIONS

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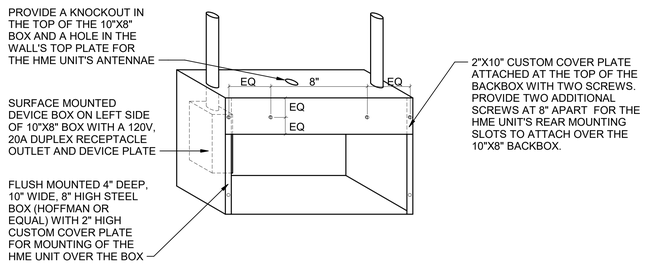
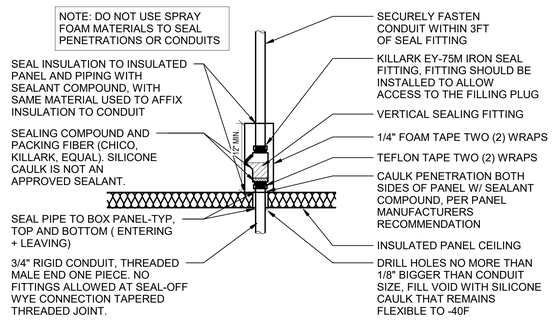
SHEET
ORDER CANOPY PLAN AND REFUSE ENCLOSURE

SHEET NUMBER
E-403P

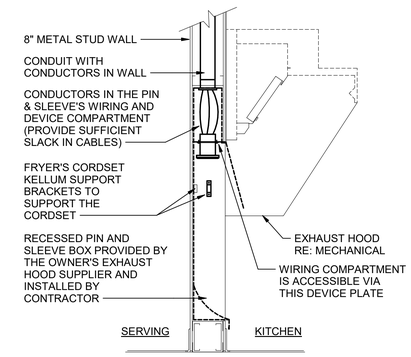
11/12/2025 8:44:54 PM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_ELE.rvt
50-LS-05484-E-403P-ORDER CANOPY PLAN AND REFUSE ENCLOSURE



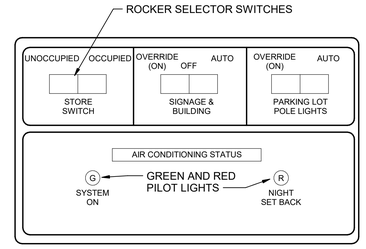
E3 HME UNIT POWER & DATA BOX DETAIL
N.T.S.



C3 WIC/WIF SEAL-OFF DETAIL
N.T.S.

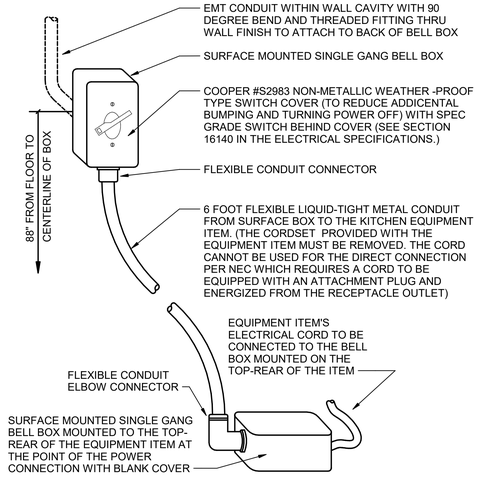


B3 PIN & SLEEVE BOX DETAIL
N.T.S.

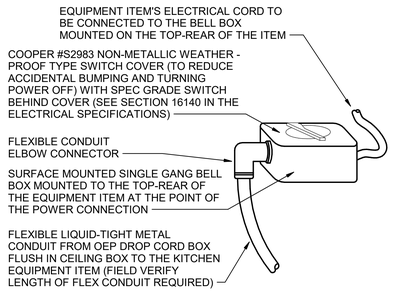


NOTE:
THIS UNIT IS MOUNTED IN THE DOOR OF THE CFA-T500 CONTROL CABINET AND IS INCLUDED WITH THE GEAR ORDER FROM SUNCOAST ENVIRONMENTAL INC.

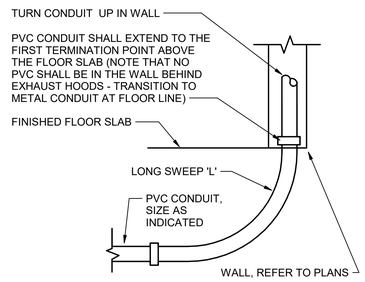
D2 OPEN-CLOSED CONTROL SWITCH
N.T.S.



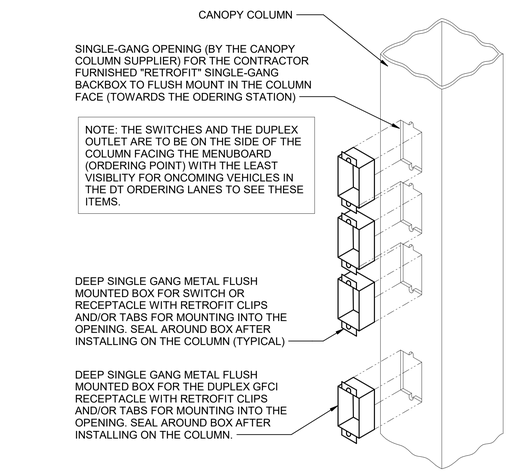
C2 DIRECT CONNECTION -WALL LOCATION
N.T.S.



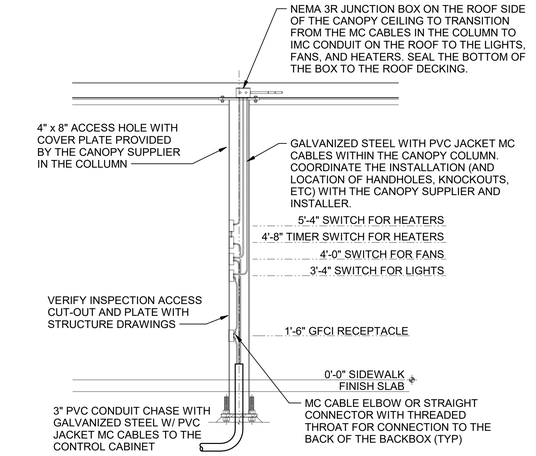
B2 DIRECT CONNECTION - ISLAND LOCATION
N.T.S.



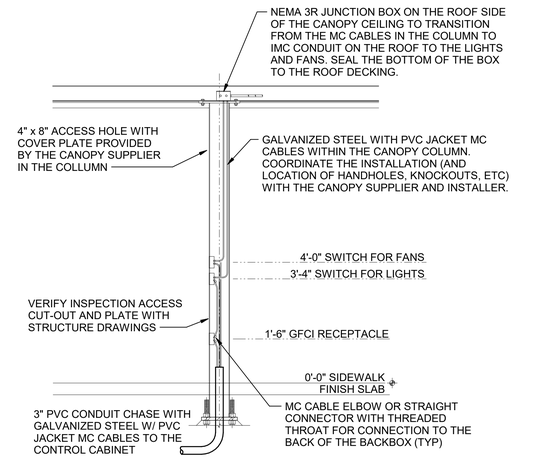
A2 INTERIOR PVC CONDUIT DETAIL
N.T.S.



D1 CANOPY COLUMN ISOMETRIC
N.T.S.



B1 MLOP ORDER CANOPY COLUMN SECTION
N.T.S.



A1 MEAL DELIVERY CANOPY COLUMN SECTION
N.T.S.

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

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MONTANA
CARMEN LEE
No. 60276PE
LICENSED PROFESSIONAL ENGINEER

CHICK-FIL-A
CUSTER & WASHINGTON
2770 N WASHINGTON ST,
HELENA, MONTANA 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
PRINTED FOR
PLAN CHECK - REV 4

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	07/11/2024	Plan Check - Rev 1
2	08/19/2025	CITY SUBMITTAL/CLIENT REVISIONS

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CONSULTANT PROJECT # 230392
DATE 01/30/24
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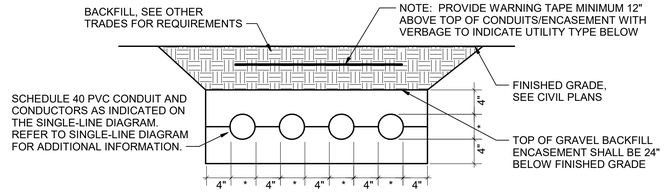
SHEET
DETAILS

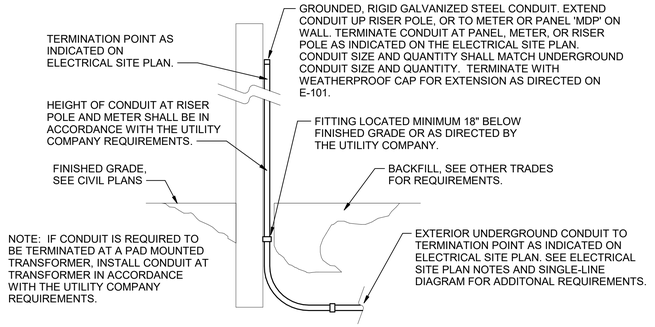
SHEET NUMBER
E-501P

11/12/2025 8:44:56 PM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_ELE.rvt
50-LS-05484-E-501P-DETAILS

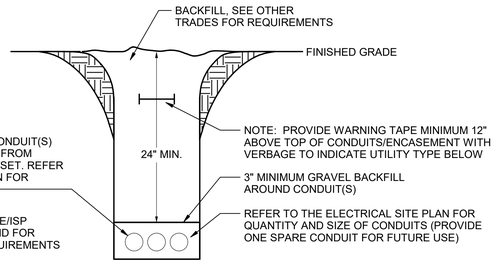


NOTE:
WHERE THE SECONDARY CONDUITS FROM THE UTILITY TRANSFORMER TO THE CURRENT TRANSFORMER CABINET (OR MAIN PANELBOARD) ARE FURNISHED BY THE UTILITY COMPANY (FOR INSTALLATION BY THE CONTRACTOR) OR ARE FURNISHED AND INSTALLED BY THE UTILITY COMPANY, THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH THE UTILITY COMPANY PRIOR TO BID. REFER TO THE ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION.

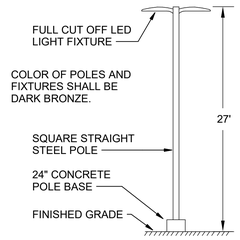
E1 ELECTRICAL SERVICE LATERAL CONDUIT DETAIL
N.T.S.



C1 EXTERIOR CONDUIT TURN UP DETAIL
N.T.S.

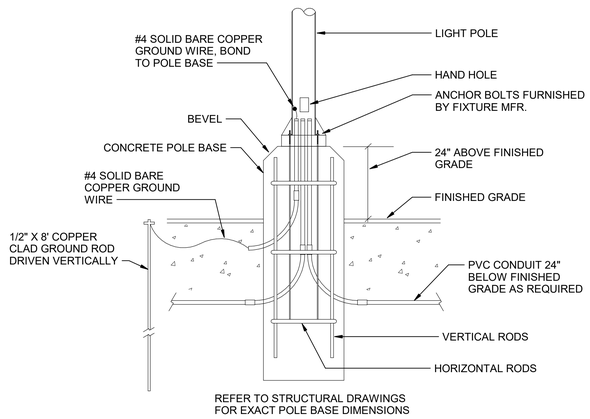


B1 TELEPHONE/ISP SERVICE CONDUIT DETAIL
N.T.S.



SEE PHOTOMETRIC LUMINAIRE SCHEDULE FOR POLE MODEL NUMBER

A3 SITE LIGHTING POLE DETAIL
N.T.S.



REFER TO STRUCTURAL DRAWINGS FOR EXACT POLE BASE DIMENSIONS

A1 TYPICAL LIGHT POLE BASE DETAIL
N.T.S.

Chick-fil-A
5200 Buffington Road
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No. 60276PE
LICENSED PROFESSIONAL ENGINEER

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HELENA, MONTANA 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
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1	07/11/2024	Plan Check - Rev 1
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CONSULTANT PROJECT # 230392
DATE 01/30/24
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SHEET
SITE DETAILS

SHEET NUMBER
E-502P

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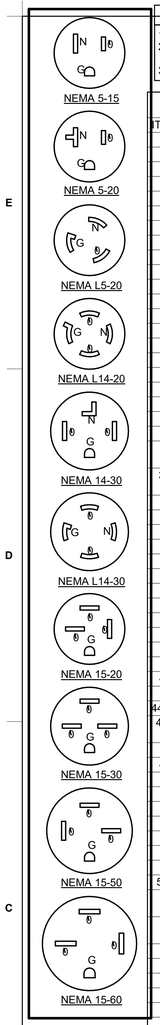
50-LS-05484-E-502P-SITE DETAILS



KITCHEN EQUIPMENT SCHEDULE NOTES

1. ALL SO CORD LENGTHS SHALL BE MEASURED FROM THE REAR OF THE EQUIPMENT TO THE END OF THE CORD.
2. CONTRACTOR SHALL PROVIDE GROUND-FAULT PROTECTION FOR ALL 120 VOLT 15 AMP AND 20 AMP RECEPTACLES IN THE KITCHEN / FOOD PREPARATION AREAS. GROUND-FAULT PROTECTION SHALL BE PROVIDED AT THE RECEPTACLE AS A GFCI TYPE RECEPTACLE UNLESS NOTED OTHERWISE ON THE PLANS WHERE A GFCI TYPE BREAKER IS INDICATED.
3. PROVIDE GFCI TYPE BRANCH BREAKER FOR KITCHEN / FOOD PREPARATION AREA RECEPTACLES THAT ARE TWIST-LOCK, CLOCK STYLE, OR IG (ISOLATED GROUND) TYPE.

KITCHEN EQUIPMENT SCHEDULE - CHICK-FIL-A P14 EDITION

ITEM NO.	DESCRIPTION OF EQUIPMENT	VOLTS	PH	KW	AMPS	NEMA-RATING	COMMENTS AND REMARKS
180	ORDER REGISTER	120	1		0.70	5-20P	
182	RECEIPT PRINTER	other	1		1.80	5-20P	PROVIDED BY CFA IT WITH 120V/24V POWER SUPPLY ADAPTER FOR USE WITH 120V IG OUTLET
182L	LABEL PRINTER	other	1		1.70	5-20P	PROVIDED BY CFA IT WITH 120V/24V POWER SUPPLY ADAPTER FOR USE WITH 120V IG OUTLET
183	ORDER MONITOR	120	1		0.125	5-20P	PROVIDED BY CFA IT
184	IPAD	120	1	0.120	1.00	5-20P	PROVIDED BY CONNECTION
184T	ITIMER	120	1	0.120	1.00	5-20P	PROVIDED BY CLARK
190	DRIVE-THRU VIDEO MONITOR	120	1		0.8	5-20P	
211B	FLY LIGHT (MANTIS QUALIS)	120	1	0.013	0.11	5-20P	CLOCK STYLE RECEPTACLE REQUIRED
211C	FLY LIGHT (MANTIS SIRIUS X)	120	1	0.013	0.11	5-20P	CLOCK STYLE RECEPTACLE REQUIRED - RE: ARCHITECTURAL SHEETS FOR MOUNTING DETAILS
269	FIRE SUPPRESSION SYSTEM	120	1		VERIFY	DIRECT CONNECTION	REMOTE CABINET - REFER TO SHOP DRAWINGS - FED FROM CFA-T500 PANEL
270	FIRE SUPPRESSION SYSTEM	120	1		VERIFY	DIRECT CONNECTION	LOCATED ABOVE HOOD BEHIND CLOSURE PANEL - REFER TO SHOP DRAWINGS - FED FROM CFA-T500 PANEL
300a	MILKSHAKE BASE DISPENSER	120	1		2.00	5-15P	MOUNTED ON ITEM #300b
300X	DOUBLE BARREL ICE CREAM MACHINE	208	3		13.00/13.00	15-30P/15-20P	PROVIDED WITH HUBBELL #HBL8432C AND #HBL8421C ANGLE PLUGS
305	TEA BREWER	120	1	1.650	13.80	5-15P	PROVIDE QUICK DISCONNECT HOSES
308	SINGLE COFFEE MAKER	208	1	4.000	19.20	L14-30P	QUICK DISCONNECT HOSES PROVIDED BY CFA WAREHOUSE
310	DOUBLE LEMONADE BUBBLER	120	1		8.50	5-15P	ORDER (1) #3CRA016 BOWL KIT AND (1) #3CRA018 BASE PER BUBBLER AND ORDER TOTAL OF (1) #3CRA021 SET OF (2) 2.4 GAL BOWLS
315W	10-HEAD BEVERAGE DISPENSER WITH ICE BIN	115	1		10.00	5-15P/5-15P	PROVIDED WITH (2) CORDS AND PLUGS PER TOWER
320	TURBO CARBONATOR	115	1		6.2	5-20P	ORDER (6) #44231, (2) #44233, (6) DR. PEPPER PUMPS, & (2) #C77004
363	HIGH-TEMP UPRIGHT DISHWASHER	208	3		46	15-60P	PROVIDED WITH DRAIN WATER TEMPERING KIT
380	ICE MACHINE (AIR-COOLED REMOTE)	115	1	0.600	5.00	5-15P	ORDER WITH 35' LINE SETS - PROVIDED WITH 6' CORD AND PLUG
380a	ICE BIN SANITATION SYSTEM	120	1	0.0096		5-15P	INSTALLED ON WALL ABOVE ICE BIN - SHARES DUPLEX WITH (1) ICE MACHINE
380C	ICE MACHINE REMOTE CONDENSING UNIT (AIR COOLED)	208	3	3.000	12.00	DIRECT CONNECTION	GC SHALL INSTALL CONDENSER - NOT SHOWN ON DRAWINGS - RE: MECHANICAL SHEETS FOR DETAILS
380CD	ICE MACHINE REMOTE CONDENSING UNIT (AIR COOLED)	208	3	3.600	15.70	DIRECT CONNECTION	GC SHALL INSTALL CONDENSER - NOT SHOWN ON DRAWINGS - RE: MECHANICAL SHEETS FOR DETAILS
380D	ICE MACHINE (AIR-COOLED REMOTE)	115	1	0.368	5.00	5-15P	ORDER WITH 35' LINE SETS - PROVIDED WITH 6' CORD AND PLUG
400L	SINGLE UPRIGHT FREEZER (30" WIDE)	115	1	1.100	9.40	5-15P	HINGE LEFT - PROVIDE FINISHED BACK - ORDER ON 4 5/8 IN CASTERS
410	WALK-IN FREEZER	120	1		3.30	DIRECT CONNECTION	ORDER WITHOUT FLOOR - REFER TO LIGHTING PLAN
410a	WALK-IN FREEZER CONDENSER	208	3		16.30	DIRECT CONNECTION	GC SHALL INSTALL CONDENSER - NOT SHOWN ON DRAWINGS - RE: MECHANICAL SHEETS FOR DETAILS
410b	WALK-IN FREEZER EVAPORATOR	208	1		1.50	DIRECT CONNECTION	POWER FED FROM CONDENSER
420	SINGLE UNDERCOUNTER REFRIGERATOR (27")	115	1		7.50	5-15P	HINGE RIGHT - ORDER WITH 4 1/8" CASTERS
420A	SINGLE UNDERCOUNTER REFRIGERATOR (27")	115	1		7.50	5-15P	HINGE RIGHT - ORDER WITH 2 3/16" CASTERS
420L	SINGLE UNDERCOUNTER REFRIGERATOR (27")	115	1		7.50	5-15P	HINGE LEFT - ORDER WITH 4 1/8" CASTERS
421	DOUBLE UNDERCOUNTER REFRIGERATOR	115	1	0.756	6.30	5-15P	ORDER ON 4 IN CASTERS
422T	REFRIGERATED EQUIPMENT STAND (48")	115	1	0.80	6.70	L5-15P	EC TO CHANGE PLUG TO TWIST LOCK - PROVIDED W/9' CORD - ORDER ON 4" CASTERS
431T	DOUBLE WORKTOP REFRIGERATOR (48")	115	1		7.50	L5-20P (BY EC)	ORDER WITH 6 1/4" CASTERS AND BACKSPLASH TOP - EC TO CHANGE PLUG TO TWIST LOCK
439D	DUAL-SIDED COLD RAIL (48")	115	1		3.50	5-15P	SUPPLIED WITH 9' CORD AND PLUG
440CT	ICE BATH BREADING TABLE	120	1		1.00	L5-15P (BY EC)	EC TO CHANGE PLUG TO TWIST LOCK - 10 FT CORD AND PLUG - LEAF INCLUDED WITH TABLE - INSTALL IF SHOWN ON PLANS
441	SALAD PREP TABLE (90")	115	1		7.70	L5-15P	ORDER WITH 4" CASTERS - INCLUDES PAN PACKAGE - PROVIDED WITH TWIST LOCK PLUG
442WCLT	SINGLE UPRIGHT REFRIGERATOR (30" WIDE)	115	1		7	L5-15P (BY EC)	HINGE LEFT - PROVIDE FINISHED BACK - ORDER ON 6 IN CASTERS - EC TO CHANGE PLUG TO TWIST LOCK
443GLT	SINGLE UPRIGHT REFRIGERATOR (24" WIDE)	115	1		8.00	L5-15P (BY EC)	HINGE LEFT - HALF HEIGHT GLASS DOORS - PROVIDE FINISHED BACK - ORDER ON 6 IN CASTERS - EC TO CHANGE PLUG TO TWIST LOCK
444D	DOUBLE THAWING CABINET (52 1/8")	115	1		14.00	5-20P	HINGE STANDARD - ORDER WITH 6 1/4" CASTERS - PROVIDED WITH 9' CORD AND PLUG
444DT	DOUBLE THAWING CABINET (52 1/8")	115	1		14.00	L5-20P (BY EC)	HINGE STANDARD - ORDER WITH 6 1/4" CASTERS - PROVIDED WITH 9' CORD AND PLUG - EC TO CHANGE PLUG TO TWIST LOCK
444S	SINGLE THAWING CABINET (32")	115	1		12.00	5-20P	HINGE RIGHT - ORDER WITH 6 1/4" CASTERS - PROVIDED WITH 9' CORD AND PLUG
449	WALK-IN COOLER	120	1		2.40	DIRECT CONNECTION	ORDER WITHOUT FLOOR - REFER TO LIGHTING PLAN
449a	WALK-IN COOLER CONDENSER	208	3		9.50	DIRECT CONNECTION	GC SHALL INSTALL CONDENSER - NOT SHOWN ON DRAWINGS - RE: MECHANICAL SHEETS FOR DETAILS
449b	WALK-IN COOLER EVAPORATOR	208	1	0.110	1.00	DIRECT CONNECTION	POWER FED FROM CONDENSER
500A	VERTICAL CONTACT TOASTER	120	1	1.80	15.00	5-15P	
500B	RADIANT TOASTER	208	1	5.50	24.00	L6-30P	PROVIDED WITH TWIST LOCK PLUG
503T	EGG STATION	208	1	2.5	12.5	L6-20P	PROVIDED W/TWIST LOCK PLUG
505VLT	VECTOR OVEN	208	3	7.90	22.00	L15-30P (BY EC)	HINGE LEFT - EC TO CHANGE PLUG TO TWIST LOCK
522	SINGLE OPEN FRYER	208	3	22.000	62.00	PIN & SLEEVE	PIN & SLEEVE PROVIDED WITH EQUIPMENT AND RECEPTACLE BOX PROVIDED WITH HALTON ITEMS - (1) POWER CONNECTION PER WELL
522A	DOUBLE OPEN FRYER	208	3	22/22	62/62	PIN & SLEEVE	PIN & SLEEVE PROVIDED WITH EQUIPMENT AND RECEPTACLE BOX PROVIDED WITH HALTON ITEMS - (1) POWER CONNECTION PER WELL
523	PRESSURE FRYER	208	3	13.500	38.00	15-50P	PROVIDED WITH 6 FT CORD AND PLUG
524	DUAL SIDE CLAMSHELL GRILL	208	3	3.3	24.1/28.2/23.1	15-50P	PROVIDED WITH 5' CORD & PLUG
560	FRY HOLDING STATION	120	1	1.900	15.40	DIRECT CONNECTION	
562A	HIGH DENSITY HOT HOLDING TOWER	120	1	1.80	16.00	5-20P	PROVIDED WITH 8 FT CORD AND PLUG
563D	DOUBLE TIER SANDWICH SLIDE	120	1	1.09	9.13	5-15P	CORD EXITS RIGHT - 6' CORD AND PLUG
563SL	SINGLE TIER SANDWICH SLIDE	120	1	0.548	4.56	5-15P	CORD EXITS LEFT - 6' CORD AND PLUG
564BD	VISUAL HOT HOLDING CABINET (2x2 LANDSCAPE)	120	1	0.660	5.50	5-15P	DUAL-SIDED DISPLAY - ORDER WITH LIDS/TRAY SEALS, AMBER PANS, AND FALSE BOTTOMS
565C	FOOD WARMER	115	1	1.200	12.50	5-15P	ORDER WITH (1) 3VOL042, (2) 3VOL043, (8) 3VOL051, AND (8) 3VOL061
580H	VISUAL HOT HOLDING CABINET (5x2)	120	1	1.920	16.00	5-20P	ORDER WITH LIDS/TRAY SEALS
592	RETHERMALIZER	208	3	8.000	22.00	15-30P	PROVIDED WITH 6' CORD AND ANGLE PLUG - WATER SUPPLY TO BE S/S BRAIDED HOSE WITH MALE QUICK CONNECT ADAPTER
600T	MIXER	120	1		8.00	L5-20P (BY EC)	EC TO CHANGE PLUG TO TWIST LOCK - ORDER WITH (1) 3HOB405, (1) 3HOB061, (2) 3HOB318, (2) 3HOB319, AND (1) 3HOB058
607	COUNTERTOP LEMON JUICER	115	1			5-15P	
669	OFFICE SAFE	120	1				INSTALL SAFE PER MANUFACTURE'S WRITTEN INSTRUCTIONS
672	DIGITAL MENU BOARD	120	1			5-15P	PROVIDED BY COATES

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HELENA, MONTANA 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
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SHEET
EQUIPMENT SCHEDULE

SHEET NUMBER
E-601P

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50-LS-05484-E-601P-EQUIPMENT SCHEDULE

Distribution Panel: MDP

LOCATION:
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: NEMA 3R

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K
MAINS TYPE: MCB
MAINS RATING: 1200 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
	1	PANEL-A (SUB-FEEDS PANEL-POS)	250 A	3	26.66	28.64					3	250 A	PANEL B	2	
--	3	--	--	--			27.75	29.29			--	--	--	4	--
--	5	--	--	--					28.28	28.46	--	--	--	6	--
	7	PANEL-C	250 A	3	31.85	15.01					3	150 A	ROOFTOP UNIT (25 TN) AC#1	8	
--	9	--	--	--			33.09	15.01			--	--	--	10	--
--	11	--	--	--					34.03	15.01	--	--	--	12	--
ST	13	PANEL-D1	250 A	3	19.47	24.02					3	250 A	PANEL-D2	14	ST
--	15	--	--	--			20.46	24.02			--	--	--	16	--
--	17	--	2	--					19.23	24.02	--	--	--	18	--
	19	ROOFTOP UNIT (5 TN) AC#2	40 A	3	3.36	11.17					3	100 A	ROOFTOP UNIT (17.5 TN) AC#3	20	
--	21	--	--	--			3.36	11.17			--	--	--	22	--
--	23	--	--	--					3.36	11.17	--	--	--	24	--
	25	TVSS	30 A	3	0.00	24.02					3	250 A	PANEL-D3	26	ST
--	27	--	--	--			0.00	24.02			--	--	--	28	--
--	29	--	--	--					0.00	24.02	--	--	--	30	--
	31													32	
	33													34	
	35													36	
				Total Load:	184.2 kVA		188.1 kVA		187.6 kVA						
				Total Amps:	1535.0 A		1572.1 A		1567.5 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	106034 VA	100.00%	106034 VA		
KITCHEN EQUIPMENT	28363 VA	65.00%	18436 VA	**Total Conn. Load:**	559.6 kVA
KITCHEN REFRIG EQUIPMENT	56825 VA	65.00%	36936 VA	**Total Est. Demand:**	503.1 kVA
LIGHTING	12767 VA	125.00%	15958 VA	**Total Conn.:**	1553.2 A
LIGHTING - EXTERIOR	4945 VA	125.00%	6181 VA	**Total Est. Demand:**	1396.4 A
MISCELLANEOUS	3085 VA	100.00%	3085 VA		
Motor	38856 VA	107.28%	41684 VA		
Power	360 VA	100.00%	360 VA		
RECEPTACLES	13451 VA	87.17%	11726 VA		
COOKING (100% DEMAND)	203273 VA	100.00%	203273 VA		
COOKING	91839 VA	65.00%	59695 VA		

LOAD SUMMARY

TOTAL CONNECTED KVA	IF TOTAL LOAD IS 0_200 KVA	IF TOTAL LOAD IS 201_325 KVA	IF TOTAL LOAD IS 326-800 KVA	IF TOTAL LOAD IS OVER 800 KVA	DIVERSIFIED AMPS AT 208 VOLT
559.55 kVA	0	0	368.05	0	1022.36

CALCULATION PER NEC 220.88
(NOT ALL ELECTRIC RESTAURANT LOAD)

Branch Panel: POS

LOCATION: OFFICE 40
SUPPLY FROM: A
MOUNTING: FLUSH
ENCLOSURE: NEMA 1

VOLTS: 120/120 Single
PHASES: 1
WIRES: 2
2+G+G
PROVIDE A JUMPER FOR PHASE A & B

A.I.C. SERIES RATING: 10K
MAINS TYPE: MLO
MAINS RATING: 100 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	B		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
H,IG	1	COUNTER STATIONS (180,182)	15 A	1	0.388	0.180	1	15 A	CCTV RACK TECH CLOSET	2	IG
	3	SPACE	--	1	--	--	1	--	SPACE	4	
	5	SPACE	--	1	--	0.070	1	15 A	OFFICE RECEPTACLE (COMP)	6	IG
	7	SPACE	--	1	--	--	1	--	SPACE	8	
H,IG	9	DT POS STATION (180,182)	15 A	1	0.300	0.120	1	15 A	PASS THRU MONITORS (183,182L)	10	H,IG
	11	SPACE	--	1	--	--	1	--	SPACE	12	
H,IG	13	MLOP POS STATIONS (180,182L)	15 A	1	0.183	0.360	1	15 A	NETWORK RACK TECH CLOSET	14	IG
	15	SPACE	--	1	--	--	1	--	SPACE	16	
H,IG	17	MLOP MONITORS (183)	15 A	1	0.204	0.050	1	15 A	ISP MODEM	18	IG
	19	SPACE	--	1	--	--	1	--	SPACE	20	
	21	PASS THRU MONITORS (183,182L)	15 A	1	0.249	--	1	--	SPACE	22	
	23	SPACE	--	1	--	0.000	1	20 A	BACKFED MAIN BREAKER	24	
				Total Load:	2.10 kVA						
				Total Amps:	17.5 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
MISCELLANEOUS	1564 VA	100.00%	1564 VA		
RECEPTACLES	540 VA	100.00%	540 VA	**Total Conn. Load:**	2.1 kVA
				Total Est. Demand:	2.1 kVA
				Total Conn.:	17.5 A
				Total Est. Demand:	17.5 A

GFCI REQUIREMENTS PER 2020 NEC:

THE CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL RECEPTACLE OUTLET BRANCH CIRCUITS IN THE KITCHEN / FOOD PREPARATION AREAS IN ACCORDANCE WITH THE 2020 EDITION OF THE NEC.

PANELBOARD NOTES

- (A) CONTROLLED BY RELAY IN CONTROL PANEL CFA-T500 AND STORE-OPEN EXHAUST FAN SWITCH. PANELBOARD SUPPLIER TO PROVIDE NOTATION ON CIRCUIT THAT THE CFA-T500 ALSO HAS AN INTEGRAL BREAKER ON THE FAN CIRCUITS FOR THE DISCONNECTION OF POWER AT THE CONTROLLER PER THE NEC. SEE CFA-T500 CONTROL PANEL CONNECTION DIAGRAM ON E-001P.
- (B) CONTROLLED BY EXTERIOR SIGN RELAY IN CONTROL PANEL CFA-T500.
- (C) CONTROLLED BY EXTERIOR LIGHTING RELAY IN CONTROL PANEL CFA-T500.
- (D) CONTROLLED BY EXTERIOR LIGHTING RELAY - DUSK TO DAWN ZONE.
- (E) CONTROLLED BY PARKING LOT LIGHTING CONTROL SWITCH.
- (F) GFCI TYPE BREAKER TO BE 30MA TYPE BREAKER.
- (H) THE CONTRACTOR SHALL PROVIDE GROUND FAULT TYPE RECEPTACLES FOR ALL 120 VOLT, 15 AND 20 AMP, RECEPTACLES IN THE KITCHEN/FOOD PREPARATION AREA UNLESS NOTED OTHERWISE. (NOTE THAT THE RECEPTACLES FOR THE OEP BOXES, THE KITCHEN/SERVING AREA, SERVING EQUIPMENT, AND THE CIRCUIT FOR THE FLY SYSTEM SHALL BE PROTECTED BY GROUND FAULT TYPE CIRCUIT BREAKERS RATHER THAN GROUND FAULT TYPE RECEPTACLES SINCE ISOLATED GROUNDING TYPE RECEPTACLES, AND CLOCK TYPE RECEPTACLES ARE NOT AVAILABLE AS GROUND FAULT TYPE.) GFCI BREAKERS REQUIRE A DEDICATED NEUTRAL (NOT SHARED) TO OPERATE PROPERLY.
- (I) GFCI TYPE BREAKER TO BE 5MA TYPE BREAKER.
- (IG) ISOLATED GROUND.
- (J) CONTROLLED BY INTERIOR LIGHTING RELAYS IN CONTROL PANEL T-500. LIGHTS SHALL TURN ON WHEN STORE IS OCCUPIED.
- (L) LOCK-ON.
- (LO) LOCK-OFF FOR MAINTENANCE.
- (M) HIGH MAG LOAD.
- (SB) THRU (1) SB6100-020-0 GFCI PROTECTION DEVICE IN SB6000 PANEL ENCLOSURE OR (1) SB6100-021-0 GFCI PROTECTION DEVICE SURFACE MOUNTED ENCLOSURE FOR 80 AMP FRYERS; OR (1) SB5060-021-0 GFCI PROTECTION DEVICE SURFACE MOUNTED ENCLOSURE FOR 60 AMP DISHWASHER.
- (ST) SHUNT TRIP. INTERLOCK W/ FIRE SUPPRESSION SYSTEM VIA T-500 PANEL. REFER TO WIRING INSTRUCTIONS INCLUDED WITH SHUNT TRIP BREAKER.
- (S) SURGE PROTECTION FOR INDIVIDUAL CIRCUIT. MOUNT SINGLE CIRCUIT SURGE PROTECTION DEVICE (SQUARE D) SDSA1175T TO FACEPLATE MOUNTED ON JUNCTION BOX DIRECTLY ABOVE PANELBOARD SERVING LOAD.

Branch Panel: A

LOCATION:
SUPPLY FROM: MDP
MOUNTING: FLUSH
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE: MLO
MAINS RATING: 250 A

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
H	1	DRIVE-THRU VIDEO MONITOR (190)	20 A	1	0.456	0.180					1	20 A	GENERAL OUTLETS	2	H
	3	OFFICE GEN OUTLETS (CO2,669)	20 A	1			0.720	0.195			1	20 A	GENERAL OUTLETS	4	H
	5	OFF GEN OUTLETS, PRINTER, MUSIC	20 A	1					0.575	1.656	1	20 A	TEA BREWER (305)	6	H
H	7	SINGLE U.C. REF (420LA)	20 A	1	0.564	1.656					1	20 A	TEA BREWER (305)	8	H
H	9	SINGLE U.C. REF (420L)	20 A	1			0.564	2.284			1	20 A	PANEL-POS THRU PIB	10	M
H	11	SINGLE U.C. REF (420)	20 A	1					0.564	0.100	1	20 A	TECH CLOSET FAN TF#1	12	
	13	SPARE	20 A	1	0.000	0.180					1	20 A	DAPPRO OIL TANK	14	
H	15	SINGLE U.C. REF (420L)	20 A	1			0.564	0.480			1	20 A	SECURITY SYSTEM	16	L
I	17	DOUBLE U.C. REF (421)	20 A	1					0.756	0.749	3	15 A	COOLER CONDENSER/EVAP COIL (449)	18	LO
I	19	SINGLE SANDWICH SLIDE (563SL)	20 A	1	0.547	0.749					--	--	--	20	--
I	21	DOUBLE SANDWICH SLIDE (563D)	20 A	1			1.096	0.690			--	--	--	22	--
--	23	CARBONATOR (320)	20 A	1					0.744	0.095	1	20 A	TECH CLOS. FAN TF#1	24	
--	25	CARBONATOR (320)	20 A	1	0.744	1.752					3	35 A	FREEZER CONDENSER/EVAP COIL (410)	26	LO
--	27	CARBONATOR (320)	20 A	1			0.744	1.908			--	--	--	28	--
--	29	CARBONATOR (320)	20 A	1					0.744	1.908	--	--	--	30	--
--	31	CARBONATOR (F320)	20 A	1	0.744	0.000					1	20 A	SPARE	32	
	33	GEN OUTLET TECH CLOSET	20 A	1			0.180	0.546			1	20 A	FREEZER HEAT TAPE/PR VALVES (410)	34	F
	35	FUTURE/RACK AC TECH CLOSET	20 A	1					1.272	0.000	1	20 A	SPARE	36	
	37	FUTURE/RACK AC TECH CLOSET	20 A	1	0.180	0.000					1	20 A	SPARE	38	2
	39	GEN OUTLET TECH CLOSET	20 A	1			0.180	0.360			1	20 A	CCTV TECH CLOSET	40	
I	41	CIR A1-HOT HOLDING CABINET (562A)	20 A	1					1.920	1.920	1	20 A	CIR A2-HOT HOLDING CABINET (562A)	42	I
I	43	CIR B1-VERTICAL TOASTER (500A)	20 A	1	1.800	0.660					1	20 A	CIR B2-HOT HOLDING CABINET (564B)	44	I
I	45	CIR C1-GENERAL OUTLET (122)	20 A	1			0.180	1.920			1	20 A	CIR D2-HOT HOLDING CABINET (580H)	46	I
I	47	CIR D1-HOT HOLDING CABINET (580H)	20 A	1					1.920	0.180	1	20 A	CIR C2-GEN OUTLET (122)	48	I
I	49	CIR E1-U.C. REFRIG (420L)	20 A	1	0.564	0.564					1	20 A	CIR E2-U.C. REFRIG (420L)	50	I
I	51	CIR F1-GEN OUTLET (122)	20 A	1			0.180	0.660			1	20 A	CIR F2-HOT HOLDING CABINET (564B)	52	I
I	53	CIR G1-VERTICAL TOASTER (500A)	20 A	1					1.800	0.852	1	20 A	CIR G2-COLD RAIL 439L	54	I
I	55	CIR H1-RADIANT TOASTER (500B)	30 A	2	2.496	2.496					2	30 A	CIR H2-SPARE/FUTURE (500B)	56	I
--	57	--	--	--			2.496	2.496			--	--	--	58	--
	59	DUCT SMOKE DETECTOR	20 A	1					0.200	2.642	3	30 A	RETHERMALIZER (592)	60	I
LO,I	61	ICE CREAM MACHINE (300X-A)	20 A	3	1.561	2.642					--	--	--	62	--
--	63	--	--	--			1.561	2.642			--	--	--	64	--
--	65	--	--	--					1.561	0.600	1	20 A	TRASH COMPACTOR (TC)	66	--
LO,I	67	ICE CREAM MACHINE (300X-B)	20 A	3	1.561	0.600					1	20 A	TRASH COMPACTOR (TC)	68	--
--	69	--	--	--			1.561	0.000			1	20 A	SPARE	70	
--	71	--	--	--					1.561	0.600	1	20 A	TRASH COMPACTOR (TC)	72	--
	73	ROOFTOP UNIT (5 TN) AC#4	40 A	3	3.362	0.600					1	20 A	TRASH COMPACTOR (TC)	74	--
--	75	--	--	--			3.362	0.180			--	--	SECURITY MONITOR	76	
--	77	--	--	--					3.362	0.000	1	20 A	SPARE	78	
	79	SPARE	20 A	1	0.000	--					1	--	SPACE	80	
	81	SPARE	20 A	1			0.000	--			1	--	SPACE	82	
	83	SPARE	20 A	1					0.000	--	1	--	SPACE	84	
				Total Load:	26.66 kVA		27.75 kVA		28.28 kVA						
				Total Amps:	222.2 A		232.6 A		237.1 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	11409 VA	100.00%	11409 VA		
KITCHEN EQUIPMENT	4440 VA	65.00%	2886 VA	**Total Conn. Load:**	82.7 kVA
KITCHEN REFRIG EQUIPMENT	22114 VA	65.00%	14374 VA	**Total Est. Demand:**	61.1 kVA
MISCELLANEOUS	2125 VA	100.00%	2125 VA	**Total Conn.:**	229.5 A
Motor	2745 VA	105.46%	2895 VA	**Total Est. Demand:**	169.7 A
RECEPTACLES	4391 VA	100.00%	4391 VA		
COOKING	35465 VA	65.00%	23052 VA		

Branch Panel: B

LOCATION:
SUPPLY FROM: MDP
MOUNTING: FLUSH
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE: MLO
MAINS RATING: 250 A

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
H	1	GENERAL OUTLET	20 A	1	0.720	0.000					1	20 A	SPARE	2	
H	3	HME	20 A	1			0.180	0.900			1	20 A	TEAM MEMBER OUTLETS	4	
H	5	BEVERAGE DISPENSER (315W)	20 A	1					1.200	0.180	1	20 A	MANAGER'S STATION	6	H
H	7	MILKSHAKE BASE DISPENSER (300a)	20 A	1	0.480	0.000					1	20 A	SPARE	8	
--	9	ROOF MTD ICE MAKER (380C)	25 A	3			1.705	1.500			--	--	--	10	--
--	11	--	--	--					1.705	1.848	1	20 A	FRY HOLDING STATION (560)	12	H
--	13	--	--	--	1.705	1.848					1	20 A	FRY HOLDING STATION (560)	14	H
H	15	LEMON JUICER STAND (607)	20 A	1			0.192	0.600			1	20 A	DRIVE-THRU DOOR	16	I
H	17	DOUBLE LEMONADE BUBBLER (310)	20 A	1					1.020	1.705	3	25 A	ROOF MTD ICE MAKER (380C)	18	--
H	19	DOUBLE LEMONADE BUBBLER (310)	20 A	1	1.020	1.705					--	--	--	20	--
H	21	DOUBLE LEMONADE BUBBLER (310)	20 A	1			1.020	1.705			--	--	--	22	--
	23	ROOF RECEPTACLES	20 A	1					1.080	0.600	1	15 A	ICE MACHINE (380D)	24	--
	25	DINING AREA OUTLETS	20 A	1	1.980	0.610					1	15 A	ICE MACHINE (380/380a)	26	--
	27	DINING AREA OUTLETS	20 A	1			0.720	0.180			1	20 A	GENERAL OUTLET	28	H
	29	DINING AREA OUTLETS	20 A	1					1.080	0.000	1	20 A	FACP (WHEN REQUIRED)	30	L
	31	SPARE	20 A	1	0.000	0.000					1	20 A	SPARE	32	
I	33	FLY LIGHTS (211B,211C)	20 A	1			0.158	0.597			1	20 A	REFUSE ENCLOSURE	34	
H	35	BEVERAGE DISPENSER (315W)	20 A	1					1.200	0.360	1	20 A	T500/SHUNT TRIP (269,270)	36	
H	37	BEVERAGE DISPENSER (315W)	20 A	1	1.200	0.360					1	20 A	GEN OUTLETS/DOORBELL	38	--
H	39	BEVERAGE DISPENSER (315W)	20 A	1			1.200	0.610			1	15 A	ICE MACHINE/SANI SYSTEM (380D/380a)	40	H
H	41	SPARE BEVERAGE DISPENSER (S315W)	20 A	1					1.200	0.000	1	20 A	SPARE	42	
I	43	SINGLE COFFEE MAKER (308)	30 A	2	1.997	2.185					1	20 A	OPTIONAL AIR COMPRESSOR	44	--
--	45	--	--	--			1.997	0.000			1	20 A	(1 OF 2 LOCATIONS)	46	
I	47	DROP CORD OUTLET (GEN)	20 A	1					0.180	0.384	1	20 A	OPTIONAL SALAD SPINNER	48	I
I	49	DROP CORD OUTLET (GEN)	20 A	1	0.180	0.180					1	20 A	DROP CORD OUTLET (GEN)	50	I
I	51	DROP CORD OUTLET (GEN)	20 A	1			0.180	0.374			2	20 A	UNHEATED AIR DOOR AD#2	52	LO
I	53	DROP CORD OUTLET (GEN)	20 A	1					0.180	0.374	--	--	--	54	--
I	55	DROP CORD OUTLET (GEN)	20 A	1	0.180	1.128					1	20 A	SINGLE UPRIGHT FREEZER (400L)	56	--
I	57	DROP CORD OUTLET (GEN)	20 A	1			0.180	1.128			1	20 A	SINGLE UPRIGHT FREEZER (400L)	58	--
	59	SPARE	20 A	1					0.000	0.000	1	20 A	SPARE	60	
	61	SPARE	20 A	1	0.000	1.920					1	20 A	DOUBLE THAWING (444D)	62	I
	63	HEATER (EIH#1)	40 A	2			3.000	1.920			1	20 A	DOUBLE THAWING (F444D)	64	I
--	65	--	--	--					3.000	1.920	1	20 A	SINGLE THAWING (444S)	66	I
--	67	ROOF MTD ICE MAKER (380C)	25 A	3	1.705	0.000					1	20 A	SPARE	68	
--	69	--	--	--			1.705	0.000			1	20 A	SPARE	70	
--	71	--	--	--					1.705	0.000	1	20 A	SPARE	72	
LO	73	HEATED AIR DOOR AD#1	40 A	3	3.771	3.771					3	40 A	HEATED AIR DOOR AD#3	74	LO
--	75	--	--	--			3.771	3.771			--	--	--	76	--
--	77	--	--	--					3.771	3.771	--	--	--	78	--
	79	SPARE	20 A	1	0.000	--					1	--	SPACE	80	
	81	SPARE	20 A	1			0.000	--			1	--	SPACE	82	
	83	SPARE	20 A	1					0.000	--	1	--	SPACE	84	
				Total Load:	28.64 kVA		29.29 kVA		28.46 kVA						
				Total Amps:	238.9 A		244.3 A		237.2 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	6000 VA	100.00%	6000 VA		
KITCHEN EQUIPMENT	1644 VA	65.00%	1069 VA	**Total Conn. Load:**	86.0 kVA
KITCHEN REFRIG EQUIPMENT	29155 VA	65.00%	18950 VA	**Total Est. Demand:**	72.9 kVA
LIGHTING	215 VA	125.00%	269 VA	**Total Conn.:**	238.8 A
Motor	26519 VA	110.66%	29347 VA	**Total Est. Demand:**	202.4 A
Power	360 VA	100.00%	360 VA		
RECEPTACLES	7200 VA	100.00%	7200 VA		
COOKING	14950 VA	65.00%	9718 VA		

Branch Panel: C

LOCATION:
SUPPLY FROM: MDP
MOUNTING: FLUSH
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE: MLO
MAINS RATING: 250 A

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
J	1	KITCHEN LTG	20 A	1	0.272	0.000					1	20 A	SPARE	2	
J	3	KITCHEN LTG EF#4	20 A	1			1.352	0.120			1	20 A	ITIMER (184T)	4	I
J	5	RESTROOM LTG & EF#3	20 A	1					1.460	0.120	1	20 A	ICE BATH BREADING (440CT)	6	I
J	7	DINING AREA LTG	20 A	1	0.267	0.180					1	20 A	DROP CORD OUTLET (GEN)	8	I
J	9	SERVING/PLAY AREA LTG	20 A	1			0.307	0.120			1	20 A	IPAD (184)	10	--
J	11	DINING AREA LTG	20 A	1					1.024	0.120	1	20 A	ICE BATH BREADING (440CT)	12	I
J	13	RECIRC PUMP/FILTER	20 A	1	0.840	0.180					1	20 A	DROP CORD OUTLET (GEN) 2	14	I
	15	WATER HEATER	20 A	1			0.960	0.000			1	20 A	SPARE	16	
H	17	DIGITAL MENU BOARD (672)	20 A	1					0.585	0.756	1	20 A	DBL REF WORK TABLE (432T)	18	--
B	19	DIRECTIONAL SIGNS	20 A	1	0.500	0.180					1	20 A	DROP CORD OUTLET (GEN)	20	I
E	21	PARKING LOT LTG	20 A	1			1.812	0.212			1	20 A	DROP CORD OUTLET (GEN)	22	I
E	23	PARKING LOT LTG	20 A	1					1.661	1.080	1	20 A	SALAD PREP TABLE (441)	24	I
	25	OMD CANOPY OUTLET	20 A	1	0.180	0.180					1	20 A	OMD CANOPY OUTLET	26	
E	27	PARKING LOT LTG	20 A	1			1.359	0.840			1	20 A	SINGLE UPRIGHT REF (442WCLT)	28	I
D	29	SECURITY/FLAGPOLE LTG	20 A	1					0.419	0.120	1	20 A	ICE BATH BREADING (F440CT)	30	I
C	31	BLDG EXTERIOR LTG	20 A	1	0.396	0.212					1	20 A	DROP CORD OUTLET (GEN)	32	I
S,J	33	MLOP &OMD CANOPY LTG	20 A	1			0.360	0.180			1	20 A	DROP CORD OUTLET (GEN)	34	I
LO	35	FRZR/COOLER LTG (410/449)	20 A	1					0.620	0.180	1	20 A	DROP CORD OUTLET (GEN)	36	I
B	37	MAIN ID SIGN	20 A	1	0.980	1.920					1	20 A	DOUBLE THAWING (444D)	38	I
B	39	MAIN ID SIGN	20 A	1			0.800	0.212			1	20 A	DROP CORD OUTLET (GEN)	40	I
B	41	MAIN ID SIGN	20 A	1					0.800	0.960	1	20 A	FLOOR MIXER (600T)	42	I
B	43	BUILDING SIGNAGE	20 A	1	1.440	0.804					1	20 A	REF EQUIP STAND (422T)	44	I
B	45	BUILDING SIGNAGE	20 A	1			0.720	0.212			1	20 A	DROP CORD OUTLET (GEN)	46	I
B	47	BUILDING SIGNAGE	20 A	1					1.440	1.656	1	25 A	HOOD EXHAUST FAN (EF#1)	48	A
	49	SPARE	20 A	1	0.000	1.656					1	25 A	HOOD EXHAUST FAN (EF#2)	50	A
S	51	DRIVE THRU ORDERING	20 A	1			1.500	1.584			1	20 A	CANOPY FANS CF#1	52	I,J,S
I,J,S	53	MLOP CANOPY FANS	20 A	1					1.056	0.862	1	20 A	HOOD CJ FANS	54	A
I	55	EGG STATION (503T)	20 A	2	1.300	1.300					2	20 A	EGG STATION (503T)	56	I
--	57	--	--	--			1.300	1.300			--	--	--	58	--
I	59	DROP CORD OUTLET (GEN)	20 A	1					0.180	1.300	2	20 A	FUTURE EGG STATION (F503T)	60	I
H	61	DBL REF WORK TABLE (431T)	20 A	1	0.756	1.300					--	--	--	62	--
I	63	DROP CORD OUTLET (GEN)	20 A	1			0.180	0.960			1	20 A	SINGLE UPRIGHT REF(443GLT)	64	H
I	65	FUTURE VECTOR OVEN (F505VLT)	30 A	3					2.642	2.642	3	30 A	VECTOR OVEN (505VLT)	66	I
--	67	--	--	--	2.642	2.642					--	--	--	68	--
--	69	--	--	--			2.642	2.642			--	--	--	70	--
I	71	VECTOR OVEN (505VLT)	30 A	3					2.642	2.642	3	30 A	VECTOR OVEN (505VLT)	72	I
--	73	--	--	--	2.642	2.642					--	--	--	74	--
--	75	--	--	--			2.642	2.642			--	--	-- 2	76	--
LO,SB	77	DISHWASHER (363H)	60 A	3					6.446	0.778	1	20 A	WATER FILTER	78	
--	79	--	--	--	6.446	--					1	--	SPACE	80	
--	81	--	--	--			6.446	--			1	--	SPACE	82	
	83	SPARE	20 A	1					0.000	--	1	--	SPACE	84	
				Total Load:	31.85 kVA		33.09 kVA		34.03 kVA						
				Total Amps:	265.4 A		277.4 A		285.2 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
KITCHEN EQUIPMENT	22279 VA	65.00%	14481 VA		
KITCHEN REFRIG EQUIPMENT	5556 VA	65.00%	3611 VA	**Total Conn. Load:**	99.0 kVA
LIGHTING	12556 VA	125.00%	15695 VA	**Total Est. Demand:**	79.5 kVA
LIGHTING - EXTERIOR	4945 VA	125.00%	6181 VA	**Total Conn.:**

Branch Panel: D1

LOCATION:
SUPPLY FROM: MDP
MOUNTING: FLUSH
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE:
MAINS RATING: 250 A

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
I	1	PRESSURE FRYER (523)	50 A	3	4.563	2.892					3	50 A	CHARGRILL COOKER (524)	2	I
--	3	--	--	--			4.563	3.384			--	--	--	4	--
--	5	--	--	--					4.563	2.772	--	--	--	6	--
I	7	PRESSURE FRYER (523)	50 A	3	4.563	2.892					3	50 A	CHARGRILL COOKER (524)	8	I
--	9	--	--	--			4.563	3.384			--	--	--	10	--
--	11	--	--	--					4.563	2.772	--	--	--	12	--
I	13	PRESSURE FRYER (523)	50 A	3	4.563	--					1	--	SPACE	14	
--	15	--	--	--			4.563	--			1	--	SPACE	16	
--	17	--	--	--					4.563	--	1	--	SPACE	18	
	19	SPACE	--	1	--	--					1	--	SPACE	20	
	21	SPACE	--	1			--	--			1	--	SPACE	22	
	23	SPACE	--	1					--	--	1	--	SPACE	24	
	25	SPACE	--	1	--	--					1	--	SPACE	26	
	27	SPACE	--	1			--	--			1	--	SPACE	28	
	29	SPACE	--	1					--	--	1	--	SPACE	30	
			Total Load:		19.47 kVA		20.46 kVA		19.23 kVA						
			Total Amps:		162.6 A		170.8 A		160.3 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
COOKING (100% DEMAND)	59166 VA	100.00%	59166 VA		
				Total Conn. Load:	59.2 kVA
				Total Est. Demand:	59.2 kVA
				Total Conn.:	164.2 A
				Total Est. Demand:	164.2 A

Branch Panel: D2

LOCATION:
SUPPLY FROM: MDP
MOUNTING: FLUSH
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE:
MAINS RATING: 250 A

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
SB	1	DOUBLE OPEN FRYER (522A)	80 A	3	7.446	7.446					3	80 A	DOUBLE OPEN FRYER (522A)	2	SB
--	3	--	--	--			7.446	7.446			--	--	--	4	--
--	5	--	--	--					7.446	7.446	--	--	--	6	--
I	7	PRESSURE FRYER (523)	50 A	3	4.563	4.563					3	50 A	FUTURE PRESSURE FRYER (F523)	8	I
--	9	--	--	--			4.563	4.563			--	--	--	10	--
--	11	--	--	--					4.563	4.563	--	--	--	12	--
	13	SPACE	--	1	--	--					1	--	SPACE	14	
	15	SPACE	--	1			--	--			1	--	SPACE	16	
	17	SPACE	--	1					--	--	1	--	SPACE	18	
	19	SPACE	--	1	--	--					1	--	SPACE	20	
	21	SPACE	--	1			--	--			1	--	SPACE	22	
	23	SPACE	--	1					--	--	1	--	SPACE	24	
	25	SPACE	--	1	--	--					1	--	SPACE	26	
	27	SPACE	--	1			--	--			1	--	SPACE	28	
	29	SPACE	--	1					--	--	1	--	SPACE	30	
			Total Load:		24.02 kVA		24.02 kVA		24.02 kVA						
			Total Amps:		200.1 A		200.1 A		200.1 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
COOKING (100% DEMAND)	72053 VA	100.00%	72053 VA		
				Total Conn. Load:	72.1 kVA
				Total Est. Demand:	72.1 kVA
				Total Conn.:	200.0 A
				Total Est. Demand:	200.0 A

Branch Panel: D3

LOCATION:
SUPPLY FROM: MDP
MOUNTING: FLUSH
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE:
MAINS RATING: 250 A

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
I	1	FUTURE PRESSURE FRYER (F523)	50 A	3	4.563	4.563					3	50 A	PRESSURE FRYER (523)	2	I
--	3	--	--	--			4.563	4.563			--	--	--	4	--
--	5	--	--	--					4.563	4.563	--	--	--	6	--
SB	7	SINGLE OPEN FRYER (522)	80 A	3	7.446	7.446					3	80 A	FUTURE SINGLE OPEN FRYER (F522)	8	SB
--	9	--	--	--			7.446	7.446			--	--	--	10	--
--	11	--	--	--					7.446	7.446	--	--	--	12	--
	13	SPACE	--	1	--	--					1	--	SPACE	14	
	15	SPACE	--	1			--	--			1	--	SPACE	16	
	17	SPACE	--	1					--	--	1	--	SPACE	18	
	19	SPACE	--	1	--	--					1	--	SPACE	20	
	21	SPACE	--	1			--	--			1	--	SPACE	22	
	23	SPACE	--	1					--	--	1	--	SPACE	24	
	25	SPACE	--	1	--	--					1	--	SPACE	26	
	27	SPACE	--	1			--	--			1	--	SPACE	28	
	29	SPACE	--	1					--	--	1	--	SPACE	30	
			Total Load:		24.02 kVA		24.02 kVA		24.02 kVA						
			Total Amps:		200.1 A		200.1 A		200.1 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
COOKING (100% DEMAND)	72053 VA	100.00%	72053 VA		
				Total Conn. Load:	72.1 kVA
				Total Est. Demand:	72.1 kVA
				Total Conn.:	200.0 A
				Total Est. Demand:	200.0 A

PANELBOARD NOTES

- (A) CONTROLLED BY RELAY IN CONTROL PANEL CFA-T500 AND STORE-OPEN EXHAUST FAN SWITCH. PANELBOARD SUPPLIER TO PROVIDE NOTATION ON CIRCUIT THAT THE CFA-T500 ALSO HAS AN INTEGRAL BREAKER ON THE FAN CIRCUITS FOR THE DISCONNECTION OF POWER AT THE CONTROLLER PER THE NEC. SEE CFA-T500 CONTROL PANEL CONNECTION DIAGRAM ON E-001P.
- (B) CONTROLLED BY EXTERIOR SIGN RELAY IN CONTROL PANEL CFA-T500.
- (C) CONTROLLED BY EXTERIOR LIGHTING RELAY IN CONTROL PANEL CFA-T500.
- (D) CONTROLLED BY EXTERIOR LIGHTING RELAY - DUSK TO DAWN ZONE.
- (E) CONTROLLED BY PARKING LOT LIGHTING CONTROL SWITCH.
- (F) GFCI TYPE BREAKER TO BE 30MA TYPE BREAKER.
- (H) THE CONTRACTOR SHALL PROVIDE GROUND FAULT TYPE RECEPTACLES FOR ALL 120 VOLT, 15 AND 20 AMP, RECEPTACLES IN THE KITCHEN/FOOD PREPARATION AREA UNLESS NOTED OTHERWISE. (NOTE THAT THE RECEPTACLES FOR THE OEP BOXES, THE KITCHEN/SERVING AREA, SERVING EQUIPMENT, AND THE CIRCUIT FOR THE FLY SYSTEM SHALL BE PROTECTED BY GROUND FAULT TYPE CIRCUIT BREAKERS RATHER THAN GROUND FAULT TYPE RECEPTACLES SINCE ISOLATED GROUNDING TYPE RECEPTACLES, AND CLOCK TYPE RECEPTACLES ARE NOT AVAILABLE AS GROUND FAULT TYPE.) GFCI BREAKERS REQUIRE A DEDICATED NEUTRAL (NOT SHARED) TO OPERATE PROPERLY.
- (I) GFCI TYPE BREAKER TO BE 5MA TYPE BREAKER.
- (IG) ISOLATED GROUND.
- (J) CONTROLLED BY INTERIOR LIGHTING RELAYS IN CONTROL PANEL T-500. LIGHTS SHALL TURN ON WHEN STORE IS OCCUPIED.
- (L) LOCK-ON.
- (LO) LOCK-OFF FOR MAINTENANCE.
- (M) HIGH MAG LOAD.
- (SB) THRU (1) SB6100-020-0 GFCI PROTECTION DEVICE IN SB6000 PANEL ENCLOSURE OR (1) SB6100-021-0 GFCI PROTECTION DEVICE SURFACE MOUNTED ENCLOSURE FOR 80 AMP FRYERS; OR (1) SB5060-021-0 GFCI PROTECTION DEVICE SURFACE MOUNTED ENCLOSURE FOR 60 AMP DISHWASHER.
- (ST) SHUNT TRIP. INTERLOCK W/ FIRE SUPPRESSION SYSTEM VIA T-500 PANEL. REFER TO WIRING INSTRUCTIONS INCLUDED WITH SHUNT TRIP BREAKER.
- (S) SURGE PROTECTION FOR INDIVIDUAL CIRCUIT. MOUNT SINGLE CIRCUIT SURGE PROTECTION DEVICE (SQUARE D) SDSA1175T TO FACEPLATE MOUNTED ON JUNCTION BOX DIRECTLY ABOVE PANELBOARD SERVING LOAD.

GFCI REQUIREMENTS PER 2020 NEC:

THE CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL RECEPTACLE OUTLET BRANCH CIRCUITS IN THE KITCHEN / FOOD PREPARATION AREAS IN ACCORDANCE WITH THE 2020 EDITION OF THE NEC.

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FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
PRINTED FOR
PLAN CHECK - REV 4

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	07/11/2024	Plan Check - Rev 1
2	08/19/2025	CITY SUBMITTAL/CLIENT REVISIONS
4	10/20/2025	PLAN CHECK-REV 4

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DATE 01/30/24
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SHEET
PANEL SCHEDULES

SHEET NUMBER
E-603P

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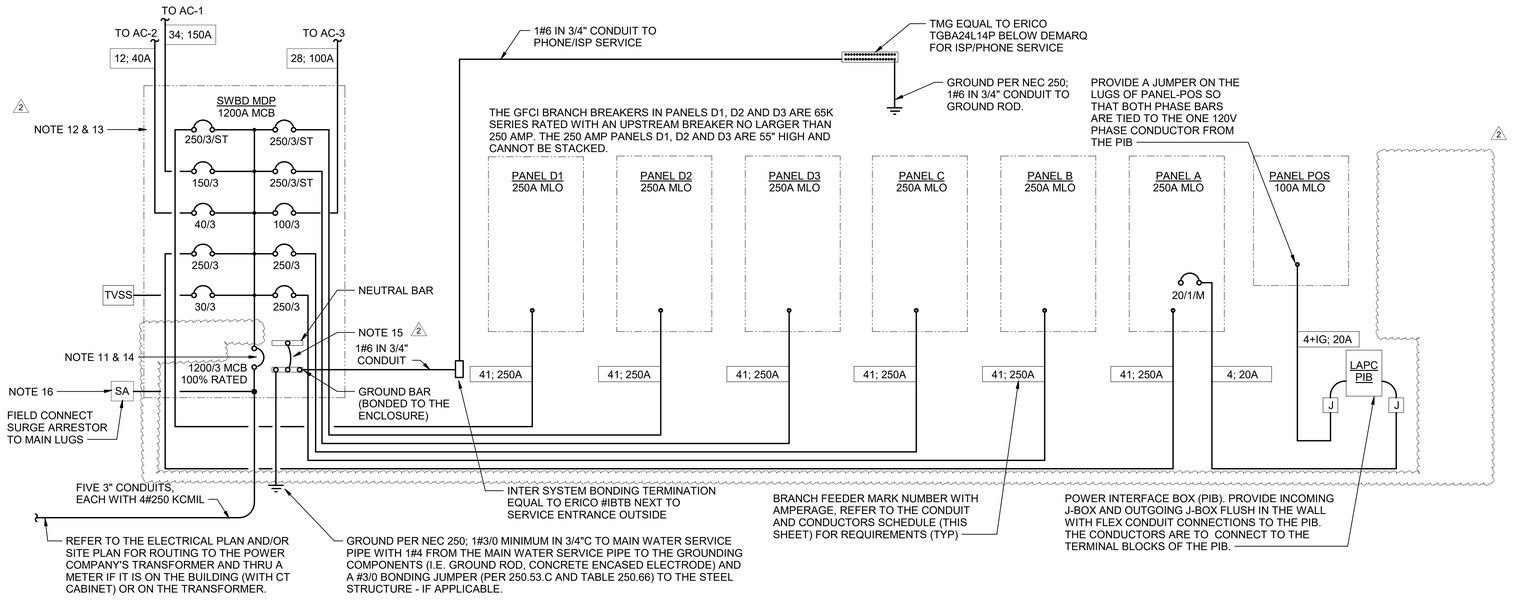


C2 SINGLE LINE DIAGRAM
NO SCALE

SINGLE-LINE DIAGRAM NOTES

1. VERIFY SERVICE LOCATIONS AND CONFORM TO THE REQUIREMENTS OF THE POWER COMPANY AND/OR DEVELOPER. POWER COMPANY AND/OR DEVELOPER SHALL BE CONTACTED PRIOR TO BEGINNING CONSTRUCTION TO ARRANGE AND VERIFY FOR THE INSTALLATION OF THE POWER COMPANY SERVICE, METER, AND OTHER ITEMS.
2. GROUND ALL EQUIPMENT AND SERVICES IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, LOCAL APPLICABLE CODES, AND ALSO AS INDICATED ON DRAWINGS.
3. MAKE NECESSARY INSPECTIONS OF EXISTING SITE AND SERVICE LOCATIONS AS REQUIRED FOR THIS WORK AND MAKE ALLOWANCE FOR EXISTING CONDITIONS BEFORE SUBMITTING BID. VERIFY WORK REQUIRED WITH POWER COMPANY AND TELEPHONE COMPANY.
4. CUT AND PATCH THE CONSTRUCTION WORK AS REQUIRED FOR PROPER INSTALLATION OF THE ELECTRICAL WORK. ALL PATCHING SHALL MATCH THE SURROUNDING WORK TO THE SATISFACTION OF THE ARCHITECT. ALL CONDUIT SHALL BE INSTALLED CONCEALED UNLESS SPECIFICALLY APPROVED BY THE ARCHITECT. COORDINATE SAW CUTTING WITH LANDLORD'S OR OWNER'S REPRESENTATIVE.
5. WIRE AND CABLE:
   A. CONDUCTORS SHALL BE COPPER, #12 AWG, MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE.
   B. CONDUCTOR #10 AWG AND SMALLER SHALL BE SOLID AND #8 AWG AND LARGER SHALL BE STRANDED. INSULATION SHALL BE 600 VOLT, THHN/THWN.
6. PROVIDE ENGRAVED LAMINATED PHENOLIC BLOCK-ON-WHITE (UNLESS NOTED OTHERWISE) NAMEPLATES SECURED TO EQUIPMENT WITH ADHESIVE AND SCREWS FOR PANELBOARDS, RELAY CABINETS, TRANSFORMERS, DISTRIBUTION BOARDS, AND MAIN PANELBOARD - IDENTIFYING EQUIPMENT DESIGNATION (CORRESPONDING WITH DESIGNATION USED ON DRAWINGS) AND EQUIPMENT VOLTAGE. LETTERING SHALL BE 1/4" HIGH. PROVIDE LABELS FOR CIRCUIT BREAKERS, FUSIBLE SWITCHES AND STARTERS IN PANELBOARDS AND DISTRIBUTION BOARDS FOR EACH DEVICE IDENTIFYING EQUIPMENT CONTROLLED. LETTERING SHALL BE 1/8" HIGH.
7. ALL DEVICES SHALL HAVE AN INTERRUPTING CAPACITY NOT LESS THAN THE POWER COMPANY AVAILABLE FAULT CURRENT, OR AS INDICATED ON THE DRAWINGS.
8. 120/208 VOLT BRANCH CIRCUIT PANELBOARD BREAKERS SHALL HAVE A MINIMUM U.L. SERIES RATING OF 65 KAIC WITH UP-STREAM FEEDER BREAKERS AS NOTED.
9. AVAILABLE SPACE FOR MAIN PANELBOARD IS LIMITED. PANELBOARD MUST FIT IN ALLOCATED SPACE. COORDINATE WITH CONSTRUCTION AS REQUIRED.
10. ALL WIRING SHALL BE IN CONDUIT, E.M.T OR RIGID. FLEXIBLE CONDUIT MAY ONLY BE USED FOR FINAL CONNECTIONS AND WITH GREEN EQUIPMENT GROUNDING CONDUCTORS. △2
11. MAIN SERVICE DISCONNECT SHALL BE IDENTIFIED WITH ARC ENERGY REDUCTION SYSTEM IN ACCORDANCE WITH NEC 240.87.
12. PROVIDE ARC FLASH HAZARD WARNING LABEL ON MAIN SWITCHBOARD IN ACCORDANCE WITH NEC 110.16.
13. IN ACCORDANCE WITH NEC 110.24(A), PROVIDE PERMANENT MARKING IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT ON MAIN SWITCHBOARD. THE FIELD MARKING(S) SHALL INCLUDE THE DATE AND THE FAULT-CURRENT CALCULATION WAS PERFORMED.
14. IN ACCORDANCE WITH NEC 110.24(A), PROVIDE PERMANENT MARKING ON SWITCHBOARD MAIN SERVICE DISCONNECT.
15. PROVIDE MAIN BONDING JUMPER IN ACCORDANCE WITH NEC 250.28.
16. PROVIDE SPD TYPE 1 IN ACCORDANCE WITH NEC 242.13(A).

△1

VOLTAGE DROP CALCULATION (208/120V SYSTEM)

BRANCH CIRCUIT: 3% MAX

LOAD PER PHASE (KVA)	MAXIMUM SIZE CB (A)	WIRE SIZE (AWG)	GROUND WIRE SIZE (AWG)	MAXIMUM LENGTH OF BRANCH CIRCUIT PER UTILIZATION VOLTAGE (120V, 1PH)	(208V, 1PH)	(208V, 3PH)	NOTES AND REMARKS
< 1.92	20	#12	#12	56 FT.	85 FT.	113 FT.	A
		#10	#10	94 FT.	141 FT.	188 FT.	A
		#8	#8	144 FT	217 FT.	289 FT.	A
		#6	#6	230 FT.	345 FT.	460 FT.	A
< 1.44	20	#12	#12	75 FT.	113 FT.	150 FT.	A
		#10	#10	125 FT.	188 FT.	250 FT.	A
		#8	#8	192 FT	289 FT.	385 FT.	A
		#6	#6	306 FT.	460 FT.	613 FT.	A
< 1.26	20	#12	#12	86 FT.	129 FT.	172 FT.	
		#10	#10	143 FT.	215 FT.	286 FT.	
		#8	#8	220 FT	330 FT.	440 FT.	
< 1.08	20	#12	#12	100 FT.	150 FT.	200 FT.	
		#10	#10	167 FT.	250 FT.	334 FT.	
		#8	#8	256 FT	385 FT.	514 FT.	
< 0.9	20	#12	#12	120 FT.	180 FT.	240 FT.	
		#10	#10	200 FT.	300 FT.	401 FT.	
< 0.72	20	#12	#12	150 FT.	225 FT.	300 FT.	
		#10	#10	250 FT.	376 FT.	501 FT.	

1. CONTRACTOR SHALL REFER TO THIS TABLE PRIOR TO START OF BRANCH CIRCUIT ROUGH-IN.
2. CONTRACTOR SHALL USE THE APPROPRIATE WIRE SIZE IN CONJUNCTION WITH THE LENGTH OF THE PROPOSED FIELD VERIFIED ROUTING OF BRANCH CIRCUIT WIRING (INCLUDING VERTICAL & LATERAL RUN, ROUTED PARALLEL / PERPENDICULAR TO THE BUILDING STRUCTURE). SEE PANEL SCHEDULE FOR THE CORRESPONDING KVA LOAD PER PHASE OF A PARTICULAR BRANCH CIRCUIT.
4. RESISTANCE VALUES ARE FOR UNCOATED COPPER WIRES IN STEEL CONDUIT, 75 DEGREE C., OPERATING AT 60 HZ.

NOTES:
A = THE VALUES IN "120V, 1PH" COLUMN ARE TO BE USED FOR GENERAL PURPOSE RECEPTACLE LOADS.

SWITCHGEAR AND CONTROL EQUIPMENT NOTES

1. PURCHASE PANELBOARDS, SURGE ARRESTOR, AND TVSS FROM AN APPROVED NATIONAL ACCOUNTS VENDOR (SEE ELECTRICAL SPECIFICATIONS, SECTION C16440, PANELBOARDS) PROVIDING SQUARE-D EQUIPMENT. NO SUBSTITUTIONS ALLOWED.
2. PURCHASE CONTROL PANEL 'CFA-T500' FROM SUNCOAST ENVIRONMENTAL, INC. (NO SUBSTITUTIONS ALLOWED). ALL EQUIPMENT IN THE CONTROL PANEL SHALL BE INSTALLED, WIRED AND CONNECTED AT THE FACTORY, INCLUDING AUTOMATIC LIGHTING CONTROL SYSTEM, LIGHTING RELAYS, HVAC STARTERS, POWER SUPPLIES, MISCELLANEOUS RELAYS AND CONTROLS, AND THERMOSTATS.
3. CONTRACTOR SHALL PROVIDE PANEL FEEDERS A, B, C, D1, D2, D3, AND POS, BRANCH CIRCUIT CONDUIT AND WIRE, AND INSTALL ALL EQUIPMENT AS REQUIRED.
4. ALL BREAKERS AND PANELS SHALL BE SQUARE-D.
5. TVSS AND SURGE ARRESTOR UNITS SHALL BE MOUNTED DIRECTLY ADJACENT TO THE SIDE OF THE MAIN DISTRIBUTION PANEL IN NEMA 3R ENCLOSURES. CLOSE NIPPLE THE UNITS TO THE SIDE OF THE PANEL. PROVIDE CONNECTION OF TVSS UNIT TO BREAKER IN PANEL. CONNECT SURGE ARRESTOR TO MAIN INCOMING LUGS OF THE PANEL. CONNECT USING MINIMUM LENGTH OF WIRE WITHOUT SHARP BENDS IN THE WIRE AND SHALL NOT BE LENGTHENED FROM WIRE LENGTH PROVIDED WITH THE TVSS OR SURGE SUPPRESSOR DEVICE.

B1 CONDUIT AND CONDUCTORS SCHEDULE

Mark No.	OCP Device (Amp/Poles)	Conductors Total Amps 60d C	75d C	Conductors Phase & Neutral Qty	Size	Type	Min Eq Grd Qty/Set	Size	Raceway Size (Nominal Inches) No. Sets	Phase, Neutral & Equip Grd EMT	IMC	RIGID	PVC	With IG EMT	IMC	PVC
1	20/1	20	-	2	12	THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
2	20/2	20	-	3	12	THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
3	20/3	20	-	4	12	THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
4	25/1	30	-	2	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
5	25/2	30	-	3	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
6	25/3	30	-	4	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
7	30/1	30	-	2	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
8	30/2	30	-	3	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
9	30/3	30	-	4	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
10	40/1	40	-	2	8	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
11	40/2	40	-	3	8	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
12	40/3	40	-	4	8	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	1.00
13	45/3	55	-	4	6	THHN	1	10	One	1.00	1.00	1.00	1.00	1.00	1.00	1.00
14	50/1	55	-	2	6	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
15	50/2	55	-	3	6	THHN	1	10	One	0.75	0.75	0.75	0.75	1.00	1.00	1.00
16	50/3	55	-	4	6	THHN	1	10	One	1.00	1.00	1.00	1.00	1.00	1.00	1.00
17	60/1	70	-	2	4	THW	1	8	One	1.00	1.00	1.00	1.00	1.25	1.00	1.25
18	60/2	70	-	3	4	THW	1	8	One	1.25	1.00	1.25	1.25	1.25	1.25	1.25
19	60/3	70	-	4	4	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25	1.25
20	70/1	70	-	2	4	THW	1	8	One	1.00	1.00	1.00	1.00	1.25	1.00	1.25
21	70/2	70	-	3	4	THW	1	8	One	1.25	1.00	1.25	1.25	1.25	1.25	1.25
22	70/3	70	-	4	4	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25	1.25
23	80/2	85	-	3	3	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25	1.25
24	80/3	85	-	4	3	THW	1	8	One	1.25	1.25	1.25	1.25	1.50	1.25	1.50
25	90/2	95	-	3	2	THW	1	8	One	1.25	1.25	1.25	1.25	1.50	1.25	1.50
26	90/3	95	-	4	2	THW	1	8	One	1.50	1.25	1.50	1.50	1.50	1.50	1.50
27	100/2	110	-	3	1	THW	1	6	One	1.50	1.50	1.50	1.50	2.00	2.00	2.00
28	100/3	110	-	4	1	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
29	110/2	-	150	3	1/0	THW	1	6	One	1.25	1.25	1.25	1.25	1.50	1.25	1.50
30	110/3	-	150	4	1/0	THW	1	6	One	1.50	1.25	1.50	1.50	1.50	1.50	1.50
31	125/2	-	150	3	1/0	THW	1	6	One	1.50	1.50	1.50	1.50	2.00	2.00	2.00
32	125/3	-	150	4	1/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
33	150/2	-	150	3	1/0	THW	1	6	One	2.00	1.50	2.00	2.00	2.00	2.00	2.00
34	150/3	-	150	4	1/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
35	175/2	-	175	3	2/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
36	175/3	-	175	4	2/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.50	2.50	2.50
37	200/2	-	200	3	3/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.50	2.50	2.50
38	200/3	-	200	4	3/0	THW	1	6	One	2.50	2.50	2.50	2.50	2.50	2.50	2.50
39	225/2	-	230	3	4/0	THW	1	4	One	2.50	2.00	2.50	2.50	2.50	2.50	2.50
40	225/3	-	230	4	4/0	THW	1	4	One	2.50	2.50	2.50	2.50	2.50	3.00	3.00
41	250/3	-	255	4	250	THW	1	4	One	2.50	3.00	3.00	3.00	3.00	3.00	3.00
42A	300/3	-	285	4	300	THW	1	4	One	3.00	3.00	3.00	3.00	3.00	3.00	3.00
42B	300/3	-	310	4	350	THW	1	4	One	3.00	3.00	3.00	3.00	3.00	3..00	3.00
43A	350/3	-	335	4	400	THW	1	4	One	3.00	3.50	3.50	3.50	3.50	3.50	3.50
43B	350/3	-	380	4	500	THW	1	4	One	3.50	3.50	3.50	3.50	3.50	3.50	3.50
44A	400/3	-	380	4	500	THW	1	3	One	3.50	3.50	3.50	3.50	3.50	3.50	3.50
44B	400/3	-	400	4	3/0	THW	1	3	Two	2.50	2.50	2.50	2.50	2.50	2.50	2.50
45A	600/3	-	570	4	300	THW	1	1	Two	3.00	3.00	3.00	3.00	3.00	3.00	3.00
45B	600/3	-	620	4	350	THW	1	1	Two	3.00	3.00	3.00	3.00	3.00	3.00	3.50
46A	800/3	-	760	4	500	THW	1	1/0	Two	3.50	3.50	3.50	3.50	3.50	3.50	3.50
46B	800/3	-	820	4	600	THW	1	1/0	Two	4.00	4.00	4.00	4.00	4.00	4.00	4.00
47	1000/3	-	1005	4	400	THW	1	2/0	Three	3.50	3.50	3.50	3.50	3.50	3.50	3.50
48	1200/3	-	1240	4	350	THW	1	3/0	Four	3.50	3.50	3.50	3.50	3.50	3.50	4.00
49	1600/3	-	1675	4	400	THW	1	4/0	Five	4.00	4.00	4.00	4.00	4.00	4.00	4.00

Notes:
Conductors are rated at 600 volt or below and are to be copper.

NEC Table 310.15(B)(16) - formerly Table 310.16 - is used for the basis of the conductor ampacities, which is not more than three current carrying conductors in a raceway at an ambient temperature of 30 deg C with 60 deg C rated conductors and connectors per 110.14-C-1 for up to 100 amp rated and up to #1 AWG conductors for equipment terminations and 75 deg C rated conductors and termination connectors for larger than 100 amp or above #1 AWG conductors.

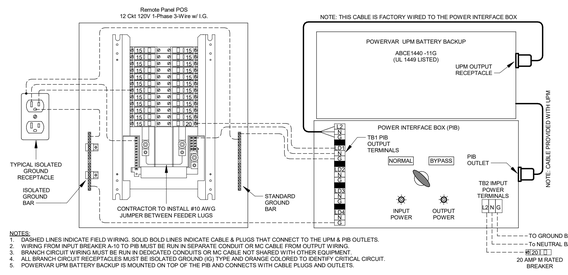
NEC Tables 4, 5, and Appendix C is used for the basis of the conduit sizes. Table C1 for EMT, Table C4 for IMC, Table C8 for Rigid, and Table C10 for PVC (Sch 40).

All Branch Feeders and Branch Circuits shall include a green Equipment Grounding Conductor.

Omit Grounding conductor on Service Entrance Feeders.

Omit Neutral conductor on all Delta primary transformer feeders or single-phase 2 pole loads and 3 phase loads not requiring a neutral.

The above conductors are not calculated for Voltage Drop. Any circuits that exceed 100 feet shall be calculated by the Installer to have less than a three percent voltage drop on feeders and five percent on branch circuits per the NEC.



NOTES:
1. WIRING FROM INPUT BREAKER A-10 TO PIB MUST BE RUN IN SEPARATE CONDUIT OR MC CABLE FROM OUTPUT WIRING.
2. BRANCH CIRCUIT WIRING MUST BE RUN IN DEDICATED CONDUITS OR MC CABLE NOT SHARED WITH OTHER EQUIPMENT.
3. ALL BRANCH CIRCUIT RECEPTACLES MUST BE ISOLATED GROUND (IG) TYPE AND ORANGE COLORED TO IDENTIFY CRITICAL CIRCUIT.
4. POWERVAR UPM BATTERY BACKUP IS MOUNTED ON TOP OF THE PIB AND CONNECTS WITH CABLE PLUGS AND OUTLETS.

A1 POS AND LAPC/PIB WIRING DIAGRAM
NO SCALE

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FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
PRINTED FOR
PLAN CHECK - REV 4

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	07/11/2024	Plan Check - Rev 1
2	08/19/2025	CITY SUBMITTAL/CLIENT REVISIONS
4	10/20/2025	PLAN CHECK-REV 4

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SHEET
SINGLE LINE DIAGRAM

SHEET NUMBER
E-701P

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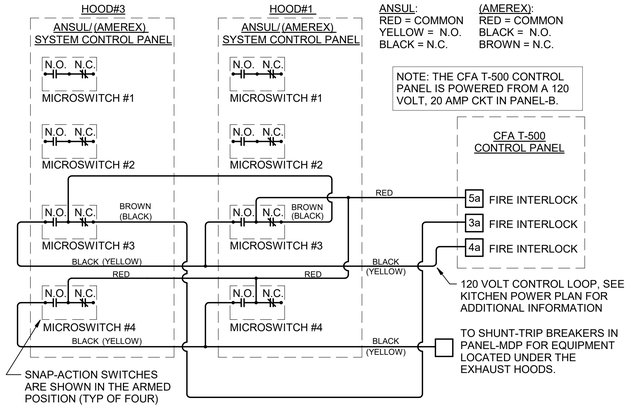
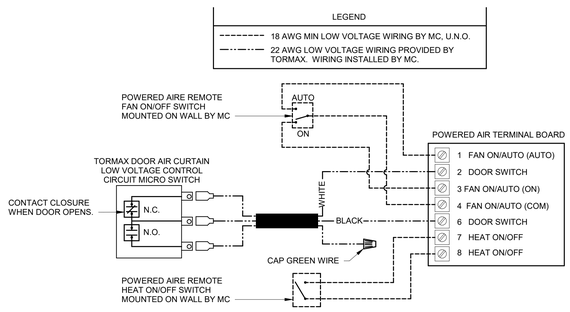
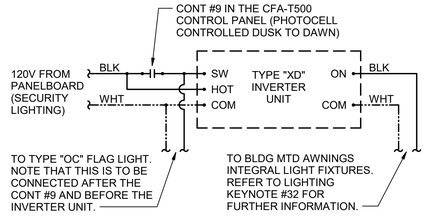
50-LS-05484-E-701P-SINGLE LINE DIAGRAM



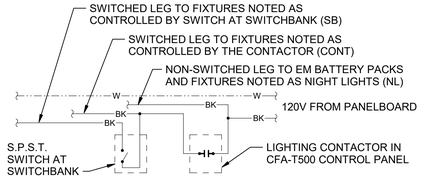
D4 FIRE SUPPRESSION SYSTEM PANEL WIRING DIAGRAM
NO SCALE



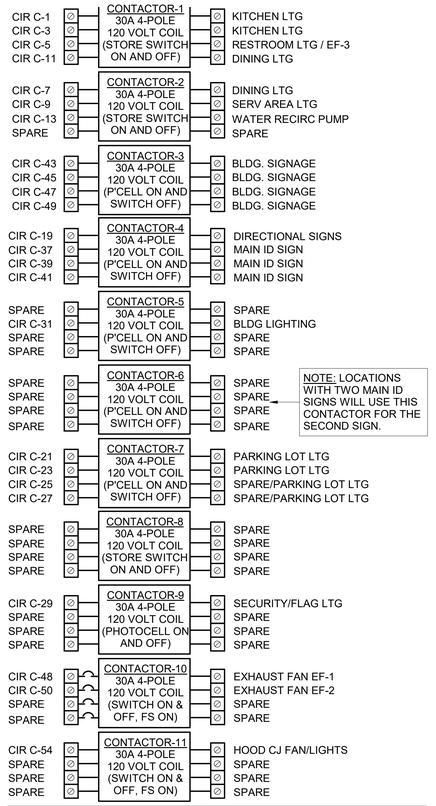
E3 AIR CURTAIN WIRING DIAGRAM
NO SCALE



D3 INVERTER XD WIRING DIAGRAM
NO SCALE



D2 LIGHTING CONTROL DIAGRAM
NO SCALE



NOTES:
1) VERIFY WITH SUNCOAST ENVIRONMENTAL CONTROLS' SHOP DRAWINGS.
2) ONLY THE 'HOT' CONDUCTOR OF EACH CIRCUIT SHALL BE RUN THRU THE CONTACTOR.
3) ANY TAPS OR WIRING CONNECTIONS OTHER THAN TO THE TERMINALS SHALL BE DONE IN A JUNCTION BOX OUTSIDE OF THIS CABINET.
4) VERIFY WITH THE LOCAL CODE IF CONTACTORS #10 AND #11 WILL BE ON OR OFF WHEN THE FS SYSTEM IS INITIATED.
5) CIRCUITS C-49, C-25, AND C-27 WILL BE SPARES IF NOT NEEDED.

⚠1 PER ASHRAE 90.1 2013

CONTRACTOR SHALL COORDINATE WITH SUNCOAST ON PROVIDING AN AUTOMATIC TIME SWITCH THAT COMPLIES WITH 90.1 SECTION 9.4

C1 CFA-T500 CONTROL PANEL DIAGRAM
NO SCALE

SEQUENCE OF OPERATION

STORE SWITCH IN "STORE OPEN" POSITION

A. INFRARED HEATERS ARE ENABLED.
B. COOLING FANS ARE ENABLED.
C. LIGHTS ARE ENABLED.
D. MASTER AUTO/OFF SWITCH FOR IR HEATERS AND COOLING FANS. PROVIDE SINGLE POINT ON/OFF CONTROL.

STORE SWITCH IN "STORE CLOSED" POSITION

A. INFRARED HEATERS ARE DISABLED.
B. COOLING FANS ARE DISABLED.
C. LIGHTS ARE DISABLED.

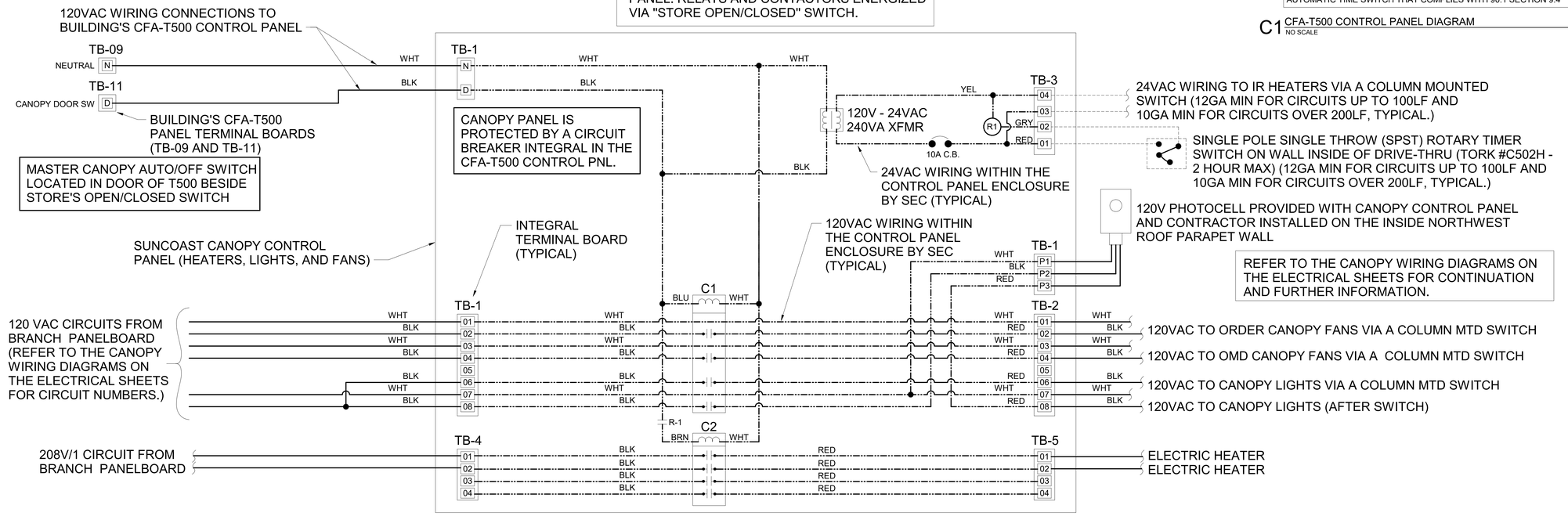
NOTES

1. CONTRACTOR SHALL PURCHASE CONTROL PANEL DIRECT FROM SUNCOAST ENVIRONMENTAL CONTROLS (727-544-6679).
2. COORDINATE WITH GC TO ESTABLISH LOCATION TO MOUNT PANEL IN A CONDITIONED SPACE INSIDE THE BUILDING. SUGGESTED LOCATION IS SURFACE MOUNTED DIRECTLY ABOVE THE LOCATION OF THE CFA-T500 CONTROL PANEL.
3. THE SUNCOAST ENVIRONMENTAL CONTROLS (SEC) IS TO BE SURFACE MOUNTED, UNLESS OTHERWISE REQUESTED TO SUNCOAST.
4. PROVIDE LAMINATED LEGEND SHOWING NAMED LOCATIONS OF FANS AND IR HEATERS. MOUNT LEGEND AT PANEL.

LEGEND

SEC SUNCOAST ENVIRONMENTAL CONTROLS (SUPPLIER OF CONTROL PANELS)
LOW VOLTAGE BY CONTRACTOR
LOW VOLTAGE WIRING BY SUNCOAST
120 VOLT BY CONTRACTOR
120 VOLT BY SUNCOAST

SUNCOAST RELAYS CONTACTORS SHOWN IN DE-ENERGIZED "STORE UNOCCUPIED" CONDITION. RELAYS AND CONTACTORS FACTORY INSTALLED BY SEC IN CONTROL PANEL. RELAYS AND CONTACTORS ENERGIZED VIA "STORE OPEN/CLOSED" SWITCH.



A1 SUNCOAST CANOPY CONTROL PANEL WIRING DIAGRAM
NO SCALE

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FSR#05484
BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
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REVISION SCHEDULE

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WIRING DIAGRAMS

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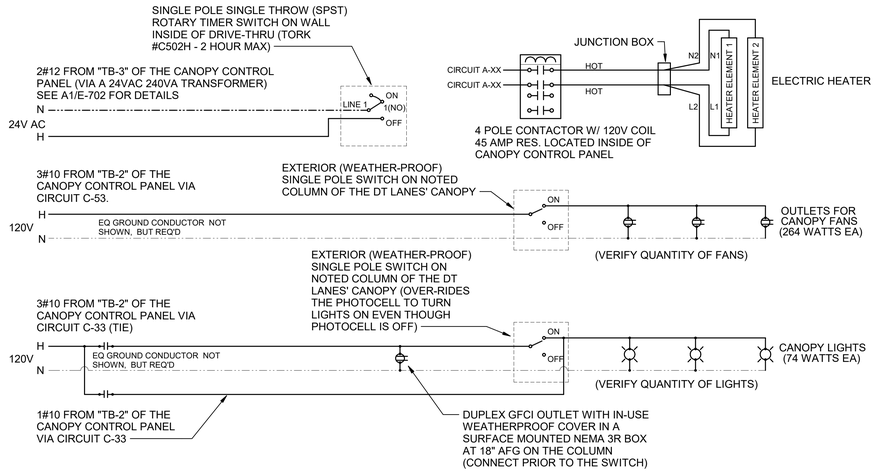
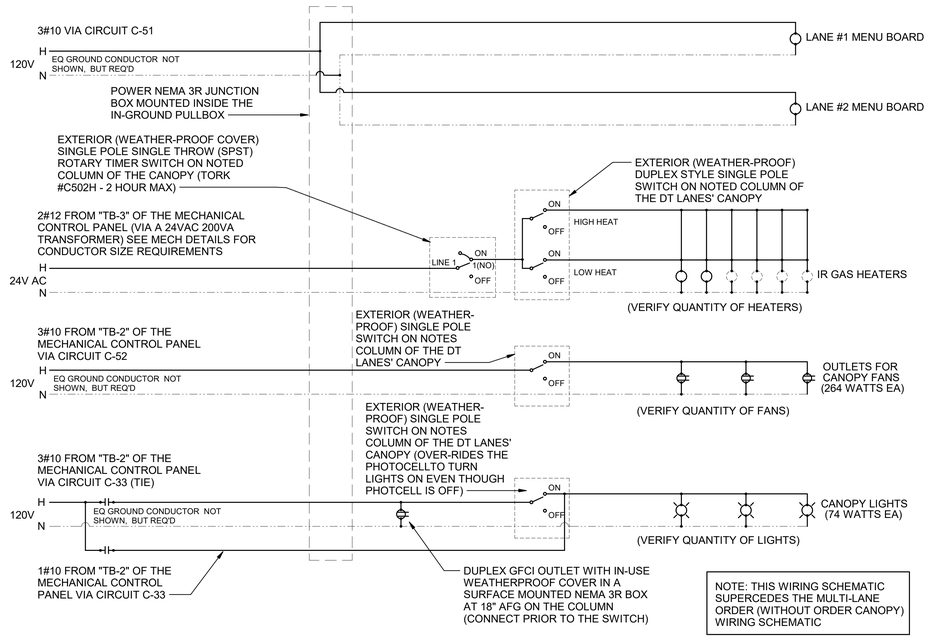
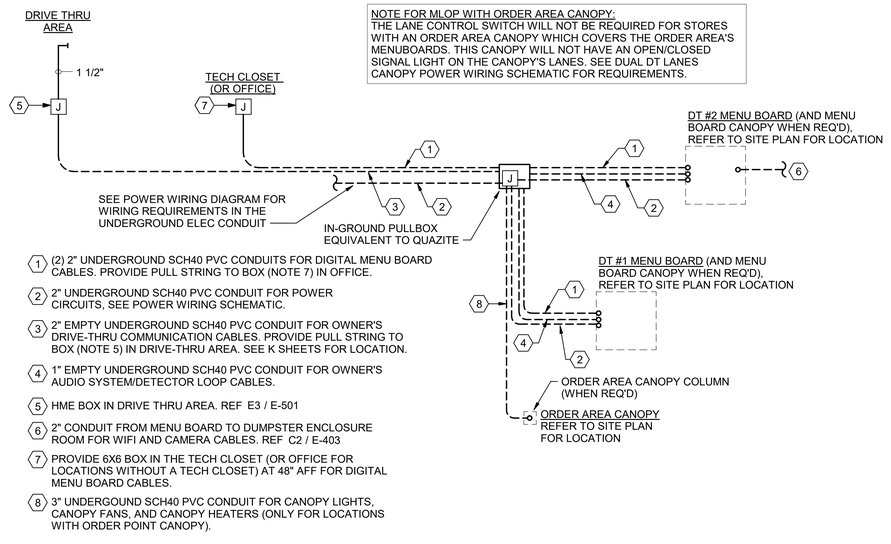


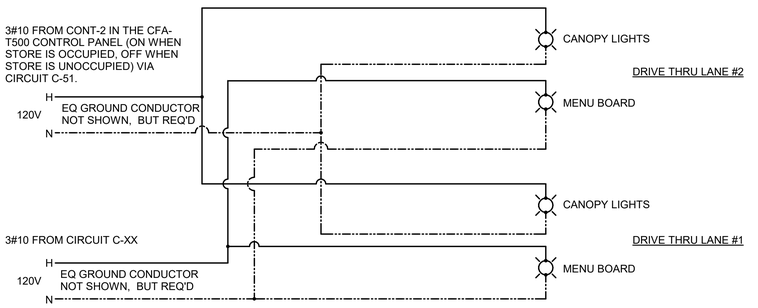
C4 OUTSIDE MEAL DELIVERY (OMD) CANOPY POWER WIRING SCHEMATIC
N.T.S.



A4 MULTI-LANE ORDER CANOPY POWER WIRING SCHEMATIC
N.T.S.



C1 MULTI-LANE ORDER POINT (MLOP) DRIVE-THRU CONDUIT REQUIREMENTS
NO SCALE



A1 MLOP DRIVE-THRU WITH CANOPY POWER WIRING SCHEMATIC - NO ORDER AREA F2F CANOPY
NO SCALE

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FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
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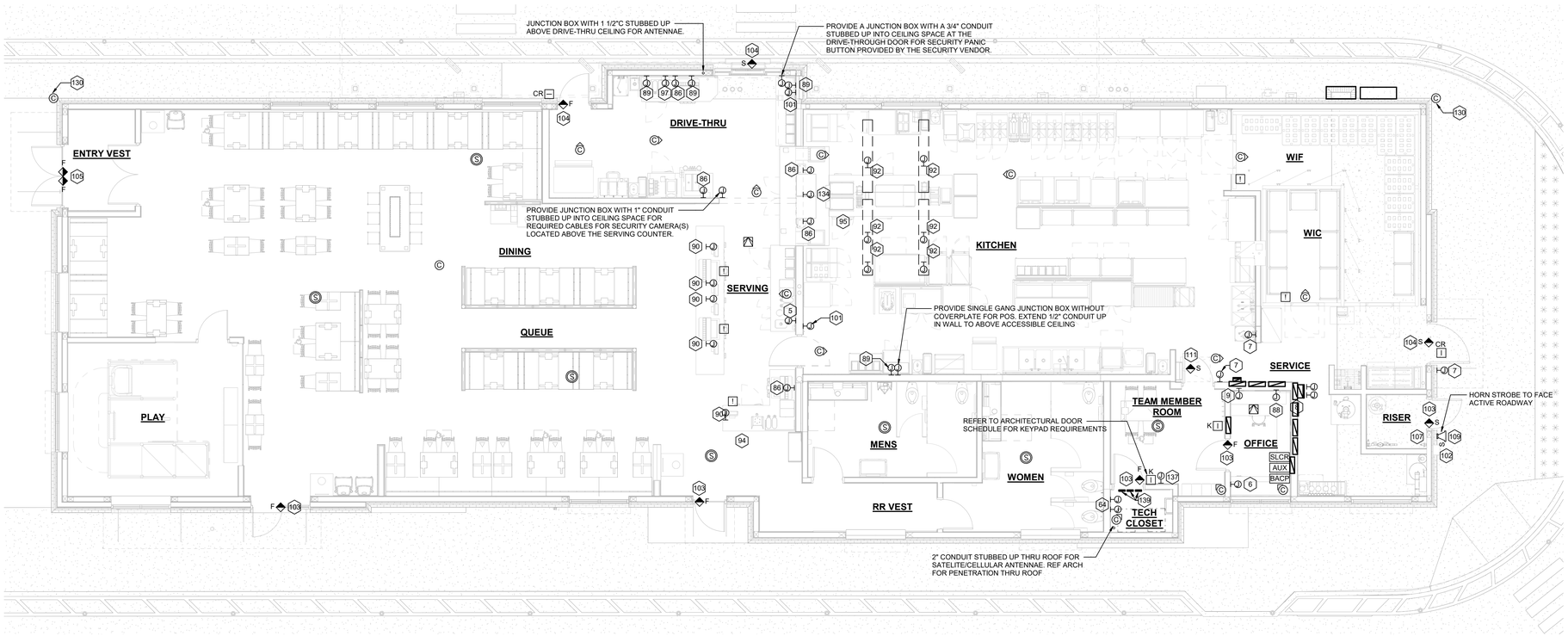

C4 LOW VOLTAGE GUIDANCE PLAN
3/16" = 1'-0"

ELECTRICAL KEYNOTES

5	PROVIDE SINGLE-GANG JUNCTION BOX WITH A 3/4" EMPTY CONDUIT STUBBED UP INTO THE ACCESSIBLE CEILING SPACE FOR THE DIGITAL MENU BOARD MEDIA ENGINE CABLES.
6	CO2 CENTRAL CONTROL UNIT - PROVIDE SINGLE-GANG BACKBOX AT 60" AFF WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE
7	CO2 ANNUNCIATOR UNIT - PROVIDE SINGLE-GANG BACKBOX AT 60" AFF WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE
8	CO2 SENSOR UNIT - PROVIDE SINGLE-GANG BACKBOX AT 12" AFF WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE
9	CO2 POWER SUPPLY - PROVIDE SINGLE-GANG BACKBOX AT 18" BELOW CEILING WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE. PROVIDE DUPLEX OUTLET, AND CONNECT TO A LOCAL GENERAL OUTLET CIRCUIT. FIELD VERIFY EXACT LOCATION WITH STRONG SYSTEMS 800-500-5566
64	PROVIDE TWO 6"H X 6"W X 4"D J-BOXES (ONE FOR TELEPHONE AND ONE FOR ISP) AT 6'-6" AFF AND EXTEND A 2" CONDUIT WITH PULL STRING IN THE WALL FROM EACH J-BOX INTO THE ACCESSIBLE CEILING SPACE. PROVIDE A 36" X 36" X 3/4" PLYWOOD BACKBOARD ON THE WALL ABOVE THE J-BOXES (AT THE CEILING) FOR USE BY THE ISP. PROVIDE A COPPER GROUND BAR (EQUAL TO ERICO TGBA24L14P) AT THE BOTTOM OF THE BACKBOARD WITH A #6 AWG INSULATED CU GROUNDING CONDUCTOR IN A 3/4"C FROM THE GROUND BAR TO THE INTER SYSTEM BONDING TERMINATION NEXT TO THE SERVICE ENTRANCE. THE GROUND BAR SHALL HAVE TAPS FOR USE BY THE TELEPHONE AND ISP UTILITY COMPANIES AND FOR THE #6 COMMUNICATIONS GROUNDING CONDUCTOR TO THE GES. PROVIDE A 15 AMP ISOLATED GROUND (IG) ORANGE-FACED DUPLEX RECEPTACLE IN THE WALL BESIDE THE BACKBOARD AND LABEL THE RECEPTACLE "FOR FIBER TO CABLE MODEM USE ONLY". BOND NETWORK RACKS TO GROUND BAR.
86	PROVIDE SINGLE-GANG JUNCTION BOX WITH A 1" CONDUIT EXTENDING UP INTO THE CEILING SPACE FOR POS MONITOR(S). COVER PLATE PROVIDED BY OWNER'S POS SYSTEM VENDOR.
88	PROVIDE A 'RETROFIT' SINGLE GANG RING (CARLON #SC100RR) FOR OWNER'S DEVICE PLATE WITH A 1" EMPTY CONDUIT AT THE OPENING STUBBED UP INTO THE CEILING SPACE FOR OWNER'S DATA CABLES.
89	PROVIDE SINGLE-GANG JUNCTION BOX WITH A 1" CONDUIT EXTENDING UP INTO THE CEILING SPACE FOR POS TERMINAL. POS SYSTEM SUPPLIER WILL PROVIDE COVER PLATE ON BOX.
90	PROVIDE SINGLE-GANG EXTRA DEEP JUNCTION BOX MOUNTED ON THE MOUNTING PLATE WITHIN THE FRONT SERVING COUNTER CASEWORK. MOUNT BOX ADJACENT TO THE RECEPTACLE FOR EQUIPMENT 180. DO NOT MOUNT BOX BETWEEN EQUIPMENT 180 AND EQUIPMENT 182 RECEPTACLES.
92	3/4" FLEX PROVIDED FOR DATA CABLES IN CHASE.
94	PROVIDE GROUND FAULT PROTECTION FOR THESE DEVICES VIA A GROUND FAULT CIRCUIT BREAKER IF LOCAL CODE DEFINES THIS A FOOD PREPARATION AREA.
95	USE TYPE MC CABLE FOR THE ISOLATED GROUND CIRCUIT: #12 HOT, NEUTRAL, GREEN GROUND, STRIPED ISOLATED GROUND. EACH 15 AMP HOMERUN SHALL BE DEDICATED TO A CIRCUIT BREAKER VIA DEDICATED CONDUCTORS WITHIN A CABLE ASSEMBLY. ALL MC CABLES SHALL BE RUN OVERHEAD ABOVE THE CEILING AND RACKED TOGETHER ON J-HOOKS. NO SPLICES IN ANY HOMERUN CABLES FROM FIRST RECEPTACLE TO BREAKER.
97	PROVIDE SINGLE GANG JUNCTION BOX AND STAINLESS STEEL COVER PLATE WITH 7/8" HOLE IN CENTER FOR VIDEO MONITOR. EXTEND 1" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING.
101	PROVIDE SINGLE GANG BOX WITHOUT COVER PLATE FOR RECEIPT PRINTER. EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING.
102	PROVIDE A 1/2" CONDUIT THRU THE EXTERIOR WALL AND STUBBED INTO THE ACCESSIBLE CEILING SPACE FOR THE EXTERIOR WALL MOUNTED AUDIO-VISUAL ALARM NOTIFICATION DEVICE. VERIFY LOCATION WITH THE EXTERIOR ELEVATIONS AND WITH THE SECURITY INSTALLER - TYPICALLY TO BE LOCATED NEAR THE FIRE PROTECTION SYSTEM'S EXTERIOR ALARM UNIT AND VISIBLE FROM THE STREET.
103	EXTEND 1/2" RIGID CONDUIT FROM TOP OF STRIKE-SIDE DOOR FRAME CHANNEL TO ABOVE ACCESSIBLE CEILING.
104	EXTEND 3/4" RIGID CONDUIT FROM TOP OF STRIKE-SIDE DOOR FRAME CHANNEL TO ABOVE ACCESSIBLE CEILING.
105	EXTEND 1/2" CONDUIT FROM A POINT 3" WITHIN EITHER HINGE-SIDE DOOR VERTICAL FRAME MULLION TO ABOVE ACCESSIBLE CEILING.
107	PROVIDE SINGLE GANG JUNCTION BOX WITH STAINLESS STEEL COVER PLATE MOUNTED ABOVE THE CEILING SPACE AND ABOVE ON THE INTERIOR SIDE OF THE REAR DOOR. ROUTE 1" CONDUIT FROM THE BOX TO THE "109" BOX NOTED BELOW.
109	PROVIDE SINGLE GANG, WEATHER-PROOF JUNCTION BOX WITH STAINLESS STEEL COVER PLATE MOUNTED ABOVE THE REAR DOOR ON THE EXTERIOR WALL. ROUTE 1" CONDUIT FROM THE BOX AND INTO THE BUILDING AND TERMINATE CONDUIT IN THE BOX NOTED IN "107" ABOVE.
111	PROVIDE JUNCTION BOX ON THE LATCH SIDE OF THE ROOF ACCESS HATCH WITH 1/2" CONDUIT ABOVE THE CEILING TO AN ACCESSIBLE CEILING SPACE FOR A DOOR CONTACT.
130	LOCATION OF A 360 DEGREE BUILDING MOUNTED EXTERIOR CAMERA (BY OTHERS). PROVIDE A 3/4" CONDUIT AT 9'-4" AFF TO AN EXTERIOR WALL MOUNTED WP JUNCTION BOX WITH THE CONDUIT ABOVE THE INTERIOR CEILING AND EXTENDED TO AN ACCESSIBLE CEILING AREA FOR CAMERA CABLES BY OTHERS.
134	PROVIDE A JUNCTION BOX WITH A 1" CONDUIT FOR DATA AND/OR SYSTEMS STUBBED UP INTO CEILING SPACE FOR APPROVED OPERATOR OPTIONAL EQUIPMENT.
137	SINGLE GANG JUNCTION BOX AT +72" A.F.F. WITH 3/4" CONDUIT STUB-UP INTO CEILING SPACE FOR TV.
139	ACCESS CONTROL PANELS LOCATED ABOVE DOOR. SECURITY CONTRACTOR TO INSTALL AND PROVIDE POE.

A1 LOW-VOLTAGE SYMBOL LEGEND

SYMBOL	DESCRIPTION	MTG HT AFF TO CL
	DATA NETWORK	
	DATA DEVICE JUNCTION-BOX - REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION	
	TELEPHONE	
	TELEPHONE OUTLET	60" UON
	CCTV / SECURITY SYSTEM	
BACP	BURGLAR ALARM CONTROL PANEL	
AUX	AUXILLARY ENCLOSURE	
SLRC	STARLINK CONNECT CELLULAR RADIO	
K	SECURITY ALARM KEYPAD	
	360° CELING-MOUNT MOTION DETECTOR	
F	FLUSH DOOR SENSOR	
S	SURFACE DOOR SENSOR	
CR	DOOR ACCESS CONTROL CARD READER	
K	DOOR ACCESS CONTROL KEYPAD ENTRY	
T	HOLD-UP/PANIC BUTTON	
C	360° VIEW CAMERA	
C	DIRECTIONAL VIEW CAMERA	
S	SIREN/HORN	
	AUDIO/VISUAL INTRUSION ALARM	

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FSR#05484

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SHEET
LOW VOLTAGE GUIDANCE PLAN

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2

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50-LS-05484-E-800P-LOW VOLTAGE GUIDANCE PLAN

PLUMBING NOTES

1. PLUMBING CONTRACTOR TO VERIFY ALL INCOMING SERVICES AND TO MAKE ALL EXTERNAL, INTERNAL INTERCONNECTIONS, AND FINAL CONNECTIONS TO EQUIPMENT AND PROVIDE ALL PIPING, FITTINGS, PARTS, ETC. NECESSARY TO MAKE EQUIPMENT FUNCTIONAL UNLESS SPECIFICALLY STATED OTHERWISE.
2. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL INDIVIDUAL SHUT-OFF VALVES ON ALL WATER AND GAS LINES.
3. ALL FLOOR AND WALL PENETRATIONS MUST BE SEALED WATER-TIGHT AND VERMIN PROOF.
4. ALL PLUMBING OUTLETS AND CONNECTIONS SHOWN IN ELEVATIONS ARE FOR FOODSERVICE EQUIPMENT ITEMS ONLY. (SEE PLUMBING SHEETS FOR ADDITIONAL REQUIREMENTS AND INFORMATION).
5. ALL HORIZONTAL DIMENSIONS SHOWN ARE FROM FINISHED FACE OF WALL OR GRID LINE TO CENTERLINE OF STUB-OUT OR FROM CENTERLINE OF STUB-OUT TO CENTERLINE OF STUB-OUT UNLESS OTHERWISE NOTED ON PLANS OR DETAILS. (VERIFY ALL DIMENSIONS AT JOB SITE).
6. ALL FLOOR SINKS SHOWN ARE TO BE SET FLUSH WITH FINISHED FLOOR UNLESS LOCAL CODES DICTATE OTHERWISE.
7. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL REMOVABLE GRILLS OR COVERS FOR ALL FULLY OR PARTIALLY EXPOSED FLOOR SINKS.
8. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL DRAIN LINES FROM ALL APPLICABLE EQUIPMENT TO FLOOR SINKS (INCLUDING WALK-IN COOLER AND FREEZER COILS) AND TO INSULATE ALL DRAIN LINES FROM ICE BINS, REFRIGERATION EQUIPMENT, OR OTHER EQUIPMENT CAPABLE OF PRODUCING CONDENSATION.
9. PLUMBING CONTRACTOR IS NOT TO HARD-PIPE THE CENTERLINE TABLE.
10. ALL COMPARTMENT SINKS SHOULD HAVE INDIRECT WASTE UNLESS OTHERWISE SPECIFIED BY JURISDICTION.
11. IF INLET PRESSURE ON HOT WATER LINES IS IN EXCESS OF 25 PSI, PLUMBING CONTRACTOR TO PROVIDE AND INSTALL PRESSURE REGULATING VALVE.
12. PLUMBING CONTRACTOR TO PROVIDE PIPES AND FITTINGS FOR ALL EXPOSED CONNECTING RUNS AS REQUIRED.
13. PLUMBING CONTRACTOR TO VERIFY ALL DIMENSIONS AT JOB SITE.
14. PLUMBING CONTRACTOR TO VERIFY PLUMBING RELATED EQUIPMENT PROVIDED BY KITCHEN EQUIPMENT CONTRACTOR ON SCHEDULE.
15. PLUMBING CONTRACTOR TO USE EXISTING SERVICES TO CONNECT NEW AND REUSED EQUIPMENT WHENEVER POSSIBLE AND TO CAP-OFF ANY EXISTING SERVICES MADE OBSOLETE BY THESE PLANS.
16. PLUMBING CONTRACTOR TO INSTALL KITCHEN EQUIPMENT CONTRACTOR SUPPLIED ITEMS SUCH AS FAUCETS & LOOSE COMPONENTS RELATED TO THE PLUMBING FIXTURES.
17. PLUMBING CONTRACTOR TO INSTALL, MOUNT, AND PLUMB ALL KITCHEN HAND SINKS AND COMPARTMENT SINKS.
18. PLUMBING CONTRACTOR TO PROVIDE STANDOFFS FOR SINKS IF REQUIRED.
19. PLUMBING ENGINEER TO DETERMINE THE NEED FOR A DOMESTIC WATER BOOSTER PUMP TO BE LOCATED PER THE KITCHEN EQUIPMENT PLANS AS REQUIRED.
20. GENERAL CONTRACTOR TO PROVIDE BLOCKING FOR ALL WALL HUNG HAND SINKS.
21. PLUMBING CONTRACTOR TO PROVIDE CONDENSER WATER PIPING CONNECTIONS TO WALK-IN COOLER / FREEZER AND ICE MACHINES.
22. WATER FILTRATION SYSTEM TO BE INSTALLED BY CHICK-FIL-A SPECIFIED VENDOR.

BUILDING WORK NOTES

1. ALL DIMENSIONS INDICATED ARE FROM FINISHED SURFACES UNLESS SPECIFICALLY STATED OTHERWISE.
2. GENERAL CONTRACTOR TO VERIFY WITH KITCHEN EQUIPMENT CONTRACTOR DELIVERY AND ACCESSIBILITY OF FOODSERVICE EQUIPMENT AND FIXTURES TO THE BUILDING.
3. GENERAL CONTRACTOR TO LAY OUT, PROVIDE, AND INSTALL ALL BACKING FOR WALL MOUNTED SHELVING AND OTHER WALL MOUNTED EQUIPMENT AS SPECIFIED IN PLANS.
4. GENERAL CONTRACTOR TO PROVIDE BLOCKING FOR ALL WALL HUNG HAND SINKS AND VANITIES.
5. ANY ATTACHMENT TO BUILDING STRUCTURE FOR LOAD BEARING WEIGHT TO BE PROVIDED BY OTHERS.
6. GENERAL CONTRACTOR TO PROVIDE UNISTRUT FOR SUSPENDED SHELVING AND SUSPENDED STAINLESS STEEL SHROUDS.
7. CONDENSING UNIT RACK TO BE PROVIDED AND INSTALLED BY OTHERS IF REQUIRED.
8. GENERAL CONTRACTOR TO HOIST ALL KITCHEN RELATED EQUIPMENT TO THE ROOF / MEZZANINE AS NEEDED.

INSTALLATION NOTES

1. GENERAL CONTRACTOR MUST INSTALL BLOCKING AS SPECIFIED ON KITCHEN AND ARCHITECTURAL SHEETS TO ENSURE PROPER BLOCKING IS IN PLACE FOR EQUIPMENT INSTALLATION.
2. SITE READINESS MUST BE COMPLETE IN PREPARATION FOR INSTALLATION BASED ON THE FOLLOWING CRITERIA:
   - A. COMPLETED PARKING LOT AND SIDEWALKS SERVING THE SITE
   - B. CLEAR ACCESS FROM THE STREET OR PARKING LOT TO EACH AREA WHERE EQUIPMENT WILL BE INSTALLED
   - C. A FULLY ENCLOSED BUILDING ENVELOPE, CREATING A WATER-TIGHT ENVIRONMENT
   - D. BROOM CLEAN CONDITIONS WITH DIRT, DUST, TRASH, AND CONSTRUCTION MATERIALS MITIGATED
   - E. NO TRADES WORKING OVERHEAD ABOVE THE EQUIPMENT
   - F. TRADE WORK SHOULD BE COMPLETE IN THE VICINITY OF THE EQUIPMENT TO MINIMIZE REPEATED SHIFTING OR MOVING OF KITCHEN EQUIPMENT
   - G. PROHIBIT USE OF THE KITCHEN EQUIPMENT BY ANY TRADE AS A WORK SURFACE, STANDING SURFACE, OR PLACE TO STORE TOOLS AND MATERIALS
   - H. PROVIDE AT A MINIMUM TEMPORARY SPACE LIGHTING SUFFICIENT TO ALLOW SAFE WORKING CONDITIONS FOR EQUIPMENT ASSEMBLY AND INSTALLATION
   - I. IF APPLICABLE, ALL SERVICE COUNTER CURBS AND FLOOR PENETRATIONS NEED TO BE COMPLETE
   - J. ALL FLOOR FINISHES AND BASE MATERIAL, INCLUDING GROUT IF APPLICABLE, MUST BE COMPLETE
   - K. ALL WALL FINISHES IN THE VICINITY OF THE EQUIPMENT MUST BE COMPLETE
   - L. ALL CEILING FINISHES, CEILING GRID, LIGHT FIXTURES, AND CEILING TILE NEED TO BE COMPLETE IN THE AREAS ABOVE THE EQUIPMENT. NOTE: IF BACK OF HOUSE SHELVING THAT IS SUSPENDED FROM OVERHEAD STRUCTURE IS USED, ONLY THE GRID IS REQUIRED – LEAVE THE CEILING TILES OUT UNTIL THE SHELVING INSTALLATION IS COMPLETE
   - M. ALL CEILING MOUNTED LIGHTING SHOULD BE IN PLACE AND COMPLETE
   - N. ALL OVERHEAD UTILITIES ABOVE THE EQUIPMENT INCLUDING FIRE SPRINKLERS, CONDUIT RUNS, SANITARY PIPING, DOMESTIC WATER LINES, CONDENSER WATER SUPPLY LINES, CONDENSER WATER RETURN LINES, HVAC DUCT, AND SIMILAR INFRASTRUCTURE SHOULD BE FINISHED
   - O. ALL HOOD SYSTEMS MUST BE IN PLACE
   - P. ALL EQUIPMENT UTILITY ROUGH-INS MUST BE COMPLETE AND READY FOR CONNECTION

KITCHEN SHEET INDEX

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K-201	OVERALL EQUIPMENT FLOOR PLAN
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K-212	ENLARGED EQUIPMENT FLOOR PLAN
K-601	ELECTRICAL ROUGH-IN ELEVATIONS
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K-802	EQUIPMENT SCHEDULE
K-901	KITCHEN DETAILS
K-902	KITCHEN DETAILS
K-903	KITCHEN DETAILS

ELECTRICAL NOTES

1. ELECTRICAL CONTRACTOR TO VERIFY ALL INCOMING SERVICES AND FINAL HOOK-UPS TO ALL APPLICABLE EQUIPMENT AND TO PROVIDE ALL SWITCHES, BREAKERS, CONDUIT, PULL BOXES, ETC. UNLESS SPECIFICALLY STATED OTHERWISE.
2. ALL ELECTRICAL OUTLETS AND CONNECTIONS SHOWN ON THIS PLAN ARE FOR EQUIPMENT AND RELATED ITEMS SHOWN ON FOODSERVICE EQUIPMENT PLAN ONLY (SEE ELECTRICAL SHEETS FOR ADDITIONAL ELECTRICAL REQUIREMENTS). ELECTRICAL CONTRACTOR TO VERIFY REQUIREMENTS FOR ADDITIONAL CONVENIENCE OUTLETS AND ITEMS NOT IN CONTRACT.
3. ALL HORIZONTAL DIMENSIONS SHOWN ARE FROM FINISHED FACE OF WALL OR GRID LINE TO CENTERLINE OF STUB-OUT OR FROM CENTERLINE OF STUB-OUT TO CENTERLINE OF STUB-OUT UNLESS OTHERWISE NOTED ON PLANS OR DETAILS. (VERIFY ALL DIMENSIONS AT JOB SITE)
4. ELECTRICAL CONTRACTOR TO RUN IN CONDUIT ALL LINES OR LOW VOLTAGE CONTROL WIRING FROM WALK-IN FREEZER EVAPORATOR AS DETAILED ON FOODSERVICE REFRIGERATION SYSTEM DETAILS DRAWINGS.
5. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL STAINLESS STEEL COVER PLATES FOR ALL RECEPTACLES AND SWITCHES IN FOOD PREPARATION AREAS UNLESS OTHERWISE NOTED.
6. ELECTRICAL CONTRACTOR TO PROVIDE CAPS AND CORDS FOR ALL ITEMS WHICH USE CONVIENENCE OUTLETS WHEN NOT SUPPLIED BY MANUFACTURER AND SHORTEN ANY CORDS AS REQUIRED.
7. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL CONDUIT FOR PULL-THRU OF REFRIGERATION AND BEVERAGE LINES AS SHOWN ON PLAN WITH A MINIMUM BENDING RADIUS OF 24" FOR 4" Ø CONDUIT OR A MINIMUM BENDING RADIUS OF 36" FOR 6" Ø CONDUIT OR LARGER. LONG SWEEP CONDUIT RECOMMENDED. (NO FACTORY "L'S" PERMITTED).
8. ELECTRICAL CONTRACTOR TO CONNECT ALL INDIVIDUAL COMPRESSORS AND/OR CONDENSERS. ELECTRICAL CONTRACTOR SHALL ALSO PROVIDE DISCONNECT SWITCHES AND MAGNETIC STARTERS AS REQUESTED (UNLESS THERE IS A PRE-WIRED COMPRESSOR RACK THAT INCLUDES DISCONNECT SWITCH).
9. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL WIRING FOR WALK-IN COOLERS AND FREEZERS ON THE EXTERIOR OF THE BOX WHENEVER POSSIBLE. VERIFY REQUIREMENTS WITH REFRIGERATION CONTRACTOR PRIOR TO INSTALL. WALK-IN COOLERS / FREEZERS CANNOT BE PROVIDED PRE-WIRED.
10. ELECTRICAL CONTRACTOR TO WIRE LOOSE WALK-IN LIGHT FIXTURES AS SUPPLIED BY KITCHEN EQUIPMENT CONTRACTOR. WALK-IN CONTRACTOR TO SUPPLY LAMPS FOR ALL WALK-IN COOLERS / FREEZERS.
11. ELECTRICAL CONTRACTOR SHALL USE CONDUIT SEALS ON ALL PENETRATIONS THRU WALK-IN PANELS.
12. ELECTRICAL CONTRACTOR TO SEAL AROUND CONDUIT PENETRATIONS IN WALK-IN COOLERS / FREEZER TO AVOID CONDENSATION INSIDE LIGHT FIXTURES.
13. ELECTRICAL CONTRACTOR TO VERIFY ALL DIMENSIONS AT JOB SITE.
14. ELECTRICAL CONTRACTOR TO USE EXISTING ELECTRICAL SERVICES TO CONNECT NEW AND RE-USED EQUIPMENT WHENEVER POSSIBLE AND TO CAP-OFF ANY EXISTING SERVICES MADE OBSOLETE BY THESE PLANS.
15. ELECTRICAL CONTRACTOR TO WIRE THE CENTERLINE TABLE WITH FIVE WIRES. (SEE ELECTRICAL SHEETS FOR ADDITIONAL ELECTRICAL REQUIREMENTS)
16. ELECTRICAL CONTRACTOR TO WIRE POS REGISTERS ON SEPARATE CIRCUITS (SEE ELECTRICAL SHEETS FOR ADDITIONAL ELECTRICAL REQUIREMENTS)

GENERAL NOTES

1. ANY DISCREPANCIES BETWEEN PLANS, BUILDING, AND LOCAL CODE REQUIREMENTS THAT MAY AFFECT THE INSTALLATION OR OVERALL FABRICATION WORK IN ANY WAY SHALL BE BROUGHT TO THE ATTENTION OF THE KITCHEN EQUIPMENT CONTRACTOR IMMEDIATELY BY THE GENERAL CONTRACTOR.
2. GENERAL CONTRACTOR TO PROVIDE ALL PENETRATIONS BETWEEN FLOORS AND / OR CEILINGS FOR GAS, WATER, ELECTRICAL, OR REFRIGERATION CONDUIT SERVICES AS REQUIRED ON PLANS.
3. GENERAL CONTRACTOR TO PROVIDE AND INSTALL ROOF JACKS OR PITCH POCKET FOR REFRIGERATION LINE PENETRATIONS THROUGH ROOF. (VERIFY LOCATION WITH REFRIGERATION CONTRACTOR).
4. GENERAL CONTRACTOR TO PROVIDE DUCT WRAP OR SHAFT(S) AND OPENING(S) THROUGH WALLS, CEILING, AND ROOF FOR EXHAUST AND MAKE-UP AIR DUCTS WITH CURB ON ROOF FLASHED AND SEALED TO MEET ALL CODES.
5. GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL WALL BACKING IN WALLS FOR MOUNTING OF WALL SHELVES, POT RACKS, HAND SINKS, VANITIES, ETC. AS SHOWN ON BUILDING WORKS PLANS.
6. ALL HORIZONTAL DIMENSIONS ARE FROM GRID LINE, FINISHED FACE OF WALL TO FINISHED FACE OF WALL, OR CENTERLINE OF COLUMN OR CASED OPENING.
7. ALL VERTICAL DIMENSIONS ARE FROM FINISHED FLOOR TO FINISHED TOP OF WALL OR WALL OPENING.
8. ALL WALLS IN CONTACT WITH OR WITHIN 18" OF COOKING EQUIPMENT SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS AS PER LOCAL CODES.
9. WHERE REQUIRED, SPRINKLER HEADS IN WALK-IN FREEZER WILL BE PROVIDED BY AND PROTECTED AGAINST FREEZING BY GENERAL CONTRACTOR.
10. IT SHALL BECOME THE RESPONSIBILITY OF THE OWNER, ARCHITECT, ENGINEERS, AND / OR GENERAL CONTRACTOR TO ENSURE THAT THE KITCHEN EQUIPMENT CONTRACTOR RECEIVES COPIES OF ALL ADDENDUMS AND CHANGES TO THE BUILDING PLANS PRIOR TO OR DURING CONSTRUCTION, WHEREAS ADDENDUMS AND / OR CHANGES AFFECT ANY AREAS PERTINENT TO THE FOOD AND BEVERAGE PORTION.
11. GENERAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL NECESSARY PENETRATION (HOLES / CHASES) FOR LINE RUNS THROUGH (WALLS / FLOORS / CEILINGS / ROOF) AS REQUIRED FOR ALL FOODSERVICE EQUIPMENT AND TO SEAL ALL PENETRATIONS WITH PROPER SEALANT.
12. FIRE EXTINGUISHERS FURNISHED AND INSTALLED BY HALTON. GENERAL CONTRACTOR TO COORDINATE WITH FIRE MARSHAL FOR HALTON'S INSTALLATION AND GC WILL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ANY ADDITIONAL FIRE EXTINGUISHER AFTER HALTON'S INSTALLATION.
13. GENERAL CONTRACTOR TO PROVIDE BUILDING ACCESS FOR OVERSIZED KITCHEN EQUIPMENT TO BE COORDINATED WITH KITCHEN EQUIPMENT CONTRACTOR.
14. GENERAL CONTRACTOR TO COORDINATE EQUIPMENT STARTUP AFTER KITCHEN EQUIPMENT CONTRACTOR INSTALLS EQUIPMENT. KITCHEN EQUIPMENT CONTRACTOR TO PROVIDE STARTUP CONTACTS TO GENERAL CONTRACTOR AFTER INSTALLATION.
15. ALL RECESSED MOP SINKS TO BE CONSTRUCTED BY GENERAL CONTRACTOR. GENERAL CONTRACTOR TO PROVIDE STAINLESS STEEL PANELS UP TO 42" AFF AND GRATE FOR RECESSED MOP SINK. BASIN MOP SINK AND STAINLESS STEEL PANELS TO BE PROVIDED BY KITCHEN EQUIPMENT CONTRACTOR UNLESS OTHERWISE NOTED.

REFRIGERATION NOTES

1. REFRIGERATION CONTRACTOR SHALL RUN ALL REFRIGERATION LINES, WHICH EXTEND DOWN THROUGH WALL(S) BEFORE WALL(S) ARE CLOSED UP WHEN CONDUIT IS NOT PROVIDED.
2. REFRIGERATION CONTRACTOR SHALL INSULATE ALL REFRIGERATION SUCTION LINES.
3. ALL PENETRATIONS THROUGH TO ROOF TO BE DONE BY GENERAL CONTRACTOR.
4. REFRIGERATION CONTRACTOR TO SEAL BOTH ENDS OF CONDUIT WITH FOMOFIL AFTER ALL LINES HAVE BEEN RUN.
5. GENERAL CONTRACTOR TO ALLOW 3'-0" OF CLEAR SPACE AROUND ROOF PAD FOR MAINTENANCE.
6. GENERAL CONTRACTOR TO VERIFY REFRIGERATION LINE RUN THROUGH TO ROOF OR MULTI-STORY BUILDING PRIOR TO CONSTRUCTION WITH REFRIGERATION CONTRACTOR FOR ACCESSIBILITY.
7. GENERAL CONTRACTOR TO VERIFY ACCESS OF CRANE WITH REFRIGERATION CONTRACTOR PRIOR TO CONSTRUCTION (IF REQUIRED).
8. REFRIGERATION CONTRACTOR TO SUPPLY AND INSTALL HEAT TAPE ON INDIRECT DRAIN LINES FOR WALK-IN FREEZERS & FREEZER BASES.
9. GENERAL CONTRACTOR TO PROVIDE CURBS FOR CONDENSING UNITS ON ROOF UNLESS RACKS ARE SPECIFIED. GENERAL CONTRACTOR TO USE PROPER SEALANT AND FLASHING ON CURBS.
10. GENERAL CONTRACTOR TO PLACE ICE MACHINE AND WALK-IN FREEZER / COOLER CONDENSING UNITS PER MECHANICAL SHEETS.
11. ICE MACHINE VENDOR AND WALK-IN CONTRACTOR RESPONSIBLE FOR PROVIDING, RUNNING, AND CONNECTING REFRIGERANT PIPING.

ABBREVIATIONS

ADJ	ADJUSTABLE	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	LH	LEFT HINGE
ALT	ALTERNATE	MAX	MAXIMUM
AMP	AMPERAGE	MC	MECHANICAL CONTRACTOR
AOR	ARCHITECT OF RECORD	MECH	MECHANICAL
APPROX	APPROXIMATE	MEZZ	MEZZANINE
AVG	AVERAGE	MIN	MINIMUM
BOH	BACK OF HOUSE	ML	MIDLINE
BLDG	BUILDING	MTD	MOUNTED
BTU	BRITISH THERMAL UNIT	MWK	MILLWORK VENDOR
CAD	COMPUTER AIDED DESIGN	N/A	NOT APPLICABLE
CC	CENTER TO CENTER	NIC	NOT IN CONTRACT
CFA	CHICK-FIL-A	NO.	NUMBER
CL	CENTERLINE	NTS	NOT TO SCALE
CLG	CEILING	OC	ON CENTER
CO	CASED OPENING	OWN	OWNER
CU FT	CUBIC FEET	P	PLUG
CW	COLD WATER	PC	PLUMBING CONTRACTOR
D	DUCT SMOKE ANNUNCIATOR	PH	PHASE
DBL	DOUBLE	PLYWD	PLYWOOD
DIA	DIAMETER (Ø)	PRI	PLUMBING ROUGH-IN
DIM	DIMENSION	QTY	QUANTITY
DL	DUAL LINE	R	RECEPTACLE
DW	DIRECT WASTE	RCP	REFLECTED CEILING PLAN
DWG	DRAWING	RE:	REFERENCE
EA	EACH	REF	REFRIGERATOR
EC	ELECTRICAL CONTRACTOR	REQ'D	REQUIRED
ELEC	ELECTRICAL	REV	REVISION
EQ	EQUIPMENT	RH	RIGHT HINGE
ERI	ELECTRICAL ROUGH-IN	RI	ROUGH-IN
EXT	EXTERIOR	RM	ROOM
FAB	FABRICATE	RSUB	REFRIGERATION SUBCONTRACTOR
FLEX	FLEXIBLE		
FOH	FRONT OF HOUSE	RVT	REVIT
FSD	FOODSERVICE DIRECTOR	SML	SMALLWARES VENDOR
FSP	FOODSERVICE PROVIDER	SOW	SCOPE OF WORK
FURN	FURNITURE VENDOR	SPEC	SPECIFICATION
FW	FILTERED WATER	SQ FT	SQUARE FEET
GC	GENERAL CONTRACTOR	SS	SOLID SURFACE
GEN	GENERAL	S/S	STAINLESS STEEL
GYP	GYPSUM	STD	STANDARD
HC	HUMIDITY CONTROLLER	T	THERMOSTAT
HGT	HEIGHT	TL	TWIST LOCK
HORZ	HORIZONTAL	TW	TEPID WATER
HP	HORSEPOWER	TYP	TYPICAL
HW	HOT WATER	V	VOLTS
IN	INCH	VEN	VENDOR
INCL	INCLUDE	VERT	VERTICAL
INT	INTERIOR	WARE	CHICK-FIL-A WAREHOUSE
IT	CHICK-FIL-A IT (DTT)	WH	WATER HEATER
IW	INDIRECT WASTE	WIC	WALK-IN COOLER
J-BOX	JUNCTION BOX	WIF	WALK-IN FREEZER
KEC	KITCHEN EQUIPMENT CONTRACTOR	WP	WEATHERPROOF

HEALTH DEPARTMENT NOTES

1. ALL EQUIPMENT IS TO BE CONSTRUCTED AND INSTALLED PER THE REQUIREMENTS OF THE COUNTY'S BOARD OF HEALTH (DIVISION OF ENVIRONMENTAL HEALTH). ACCEPTANCE OF THESE PLANS BY THE COUNTY'S BOARD OF HEALTH IS SUBJECT TO FINAL INSPECTION BY SAID AGENCY. TRIMARK ASSUMES NO RESPONSIBILITY FOR ANY ADDITIONAL EQUIPMENT, TRIM, OR LABOR REQUIRED TO MEET ANY UNFORESEEN REQUIREMENTS THAT MAY ARISE FROM THE INSPECTION.
2. EMPLOYEE LOCKERS TO BE INSTALLED WITH METAL LEGS OR WALL MOUNTED AT A MINIMUM OF 6" OFF FINISHED FLOOR. GENERAL CONTRACTOR TO PROVIDE BLOCKING FOR WALL MOUNTED LOCKERS PER ARCHITECTURAL SHEETS IF REQUIRED.
3. ALL WALLS AND CEILING IN FOOD HANDLING AREAS TO BE SMOOTH, NON-ABSORBENT, LIGHT IN COLOR, AND EASILY CLEANABLE AS DEFINED BY THE LOCAL HEALTH DEPARTMENT.

MISCELLANEOUS NOTES

1. WHEN SOUND / MUSIC SYSTEM(S) ARE INSTALLED, ELECTRICAL CONTRACTOR TO PROVIDE CIRCUITS AND MAKE ALL NECESSARY ELECTRICAL HOOK-UPS.
2. MILLWORK VENDOR TO PROVIDE NETWORK CABINET IF REQUIRED. GENERAL CONTRACTOR TO INSTALL NETWORK CABINET PRIOR TO OFFICE MILLWORK INSTALLATION.

MECHANICAL NOTES

1. MECHANICAL ENGINEER TO PROVIDE MAKE-UP AIR WHICH SHALL BE DELIVERED TO THE SUPPLY AIR PLENUM OF THE EXHAUST HOOD OR IN THE PROXIMITY OF THE EXHAUST HOOD IN SUCH A MANNER AS TO NOT CREATE UNDUE TURBULENCE IN THE WORKING AREAS.
2. MECHANICAL CONTRACTOR TO VERIFY THE LOCATION(S) OF THE EXHAUST AND MAKE-UP AIR DUCT(S) AT JOB SITE WITH KITCHEN EQUIPMENT CONTRACTOR.
3. HVAC RETURNS SHOULD BE A MINIMUM OF 8'-0" AWAY FROM BREADING AREA.
4. AVOID HVAC DIFFUSERS ABOVE CENTERLINE TABLE.

SYMBOLS & LINETYPES

- #K-### — ERI ELEVATION MARKER
- #K-### — PRI ELEVATION MARKER
- INTERNATIONAL FIRE CODE CLEARANCE
- ELEVATION HEIGHT MARKER
- BLOCKING
- CLEARANCE
- EXISTING
- DEMO
- NEW
- FUTURE
- OBSTRUCTED
- SURFACE
- ABOVE

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CUSTER & WASHINGTON

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HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS CUSTOM
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SHEET
GENERAL NOTES

SHEET NUMBER
K-001

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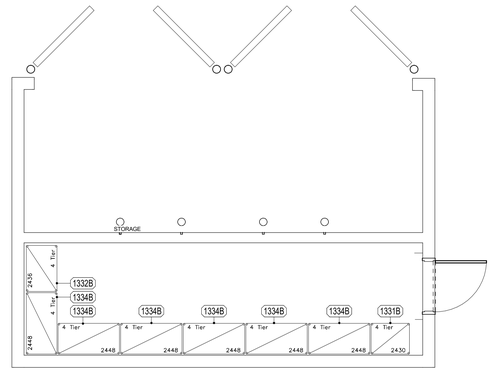
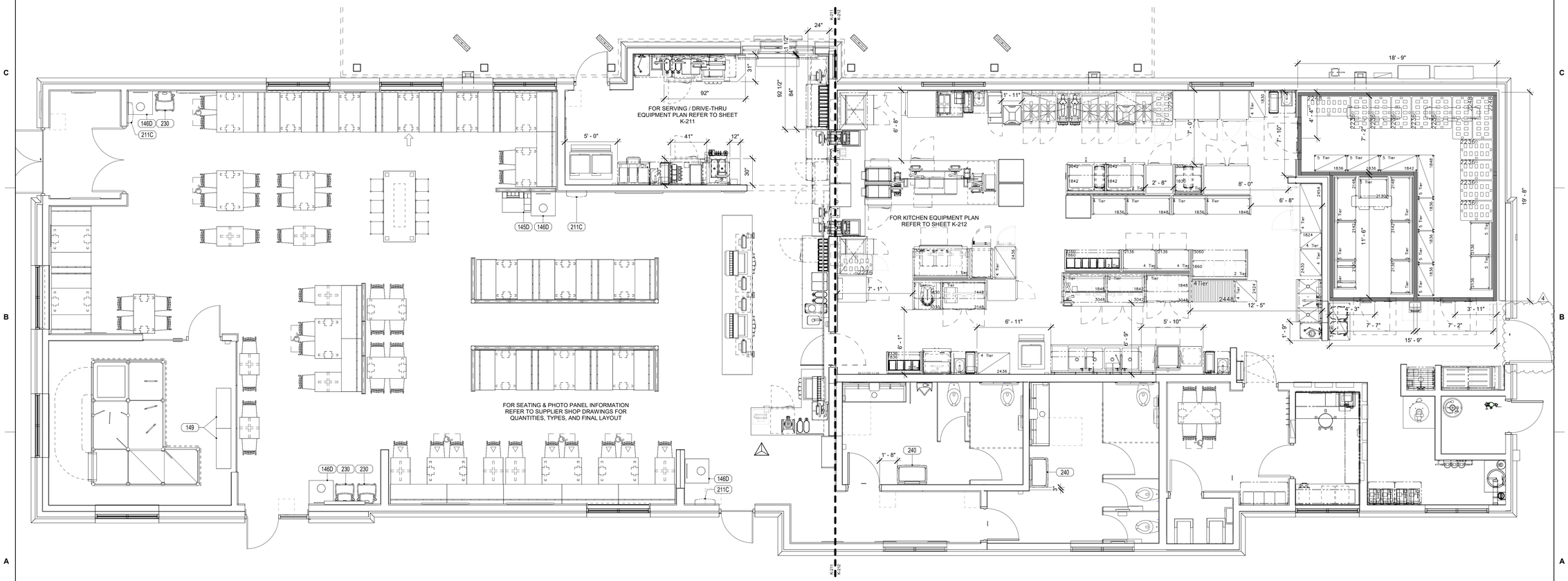
60-LS-05484-K-001-GENERAL NOTES



NOTE:
REFUSE ENCLOSURE SHOWN FOR PROTOTYPICAL SHELVING LOCATIONS AND SPACING PURPOSES ONLY. VERIFY ACTUAL REFUSE ENCLOSURE INFORMATION AND LOCATION ON ARCHITECTURAL SHEETS

2 REFUSE ENCLOSURE FLOOR PLAN
1/4" = 1'-0"



1 PARTIAL EQUIPMENT PLAN - DINING
1/4" = 1'-0"

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REVISION SCHEDULE

NO.	DATE	DESCRIPTION
2	08/19/2025	CITY SUBMITTAL/CLIENT REVISIONS
4	10/20/2025	PLAN CHECK

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SHEET
OVERALL EQUIPMENT FLOOR PLAN

SHEET NUMBER
K-201

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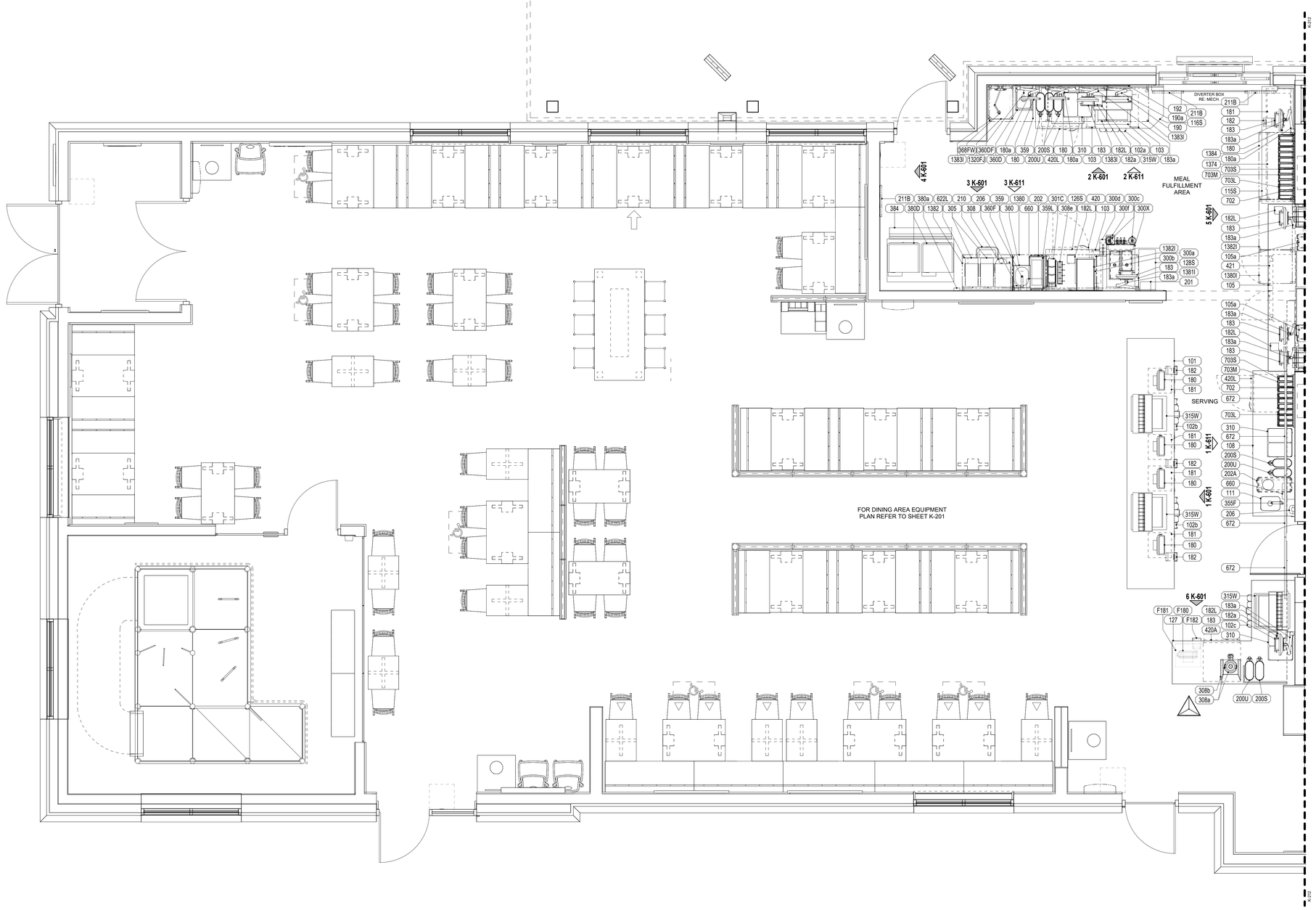

1 PARTIAL EQUIPMENT PLAN - SERVING / DRIVE - THRU
3/8" = 1'-0"

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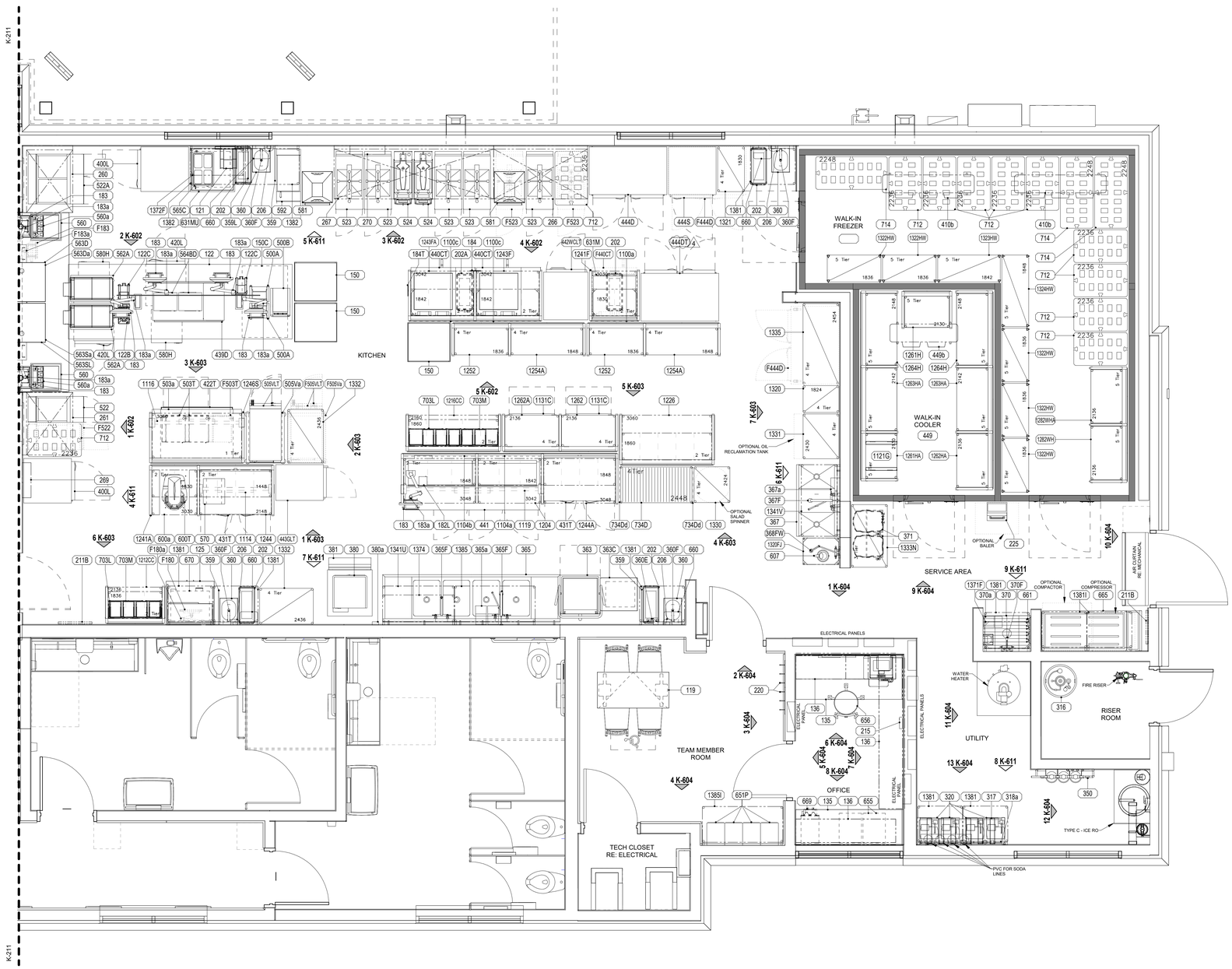
SHEET
ENLARGED EQUIPMENT FLOOR PLAN

SHEET NUMBER
K-211

10/24/2025 9:49:51 AM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_EQK.rvt
60-LS-05484-K-211-ENLARGED EQUIPMENT FLOOR PLAN



1 PARTIAL EQUIPMENT PLAN - KITCHEN/BOH
3/8" = 1'-0"

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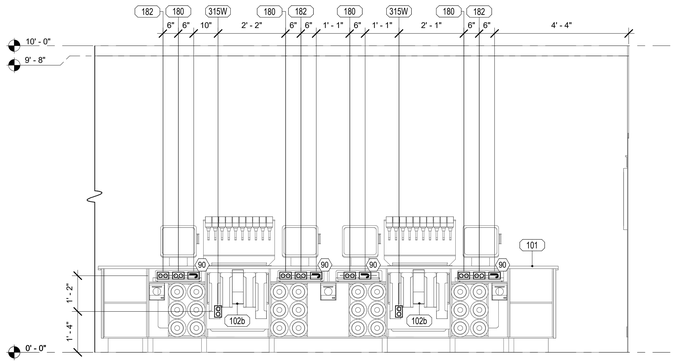
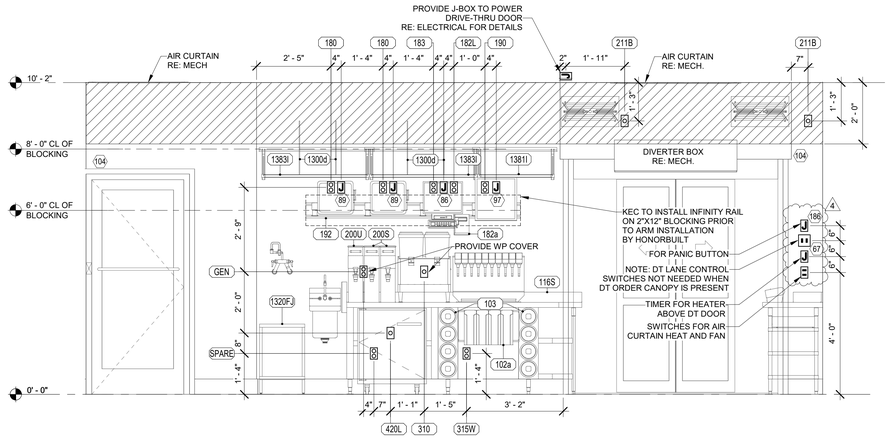
SHEET
ENLARGED EQUIPMENT FLOOR PLAN

SHEET NUMBER
K-212

10/24/2025 9:49:57 AM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_EQK.rvt
60-LS-05484-K-212-ENLARGED EQUIPMENT FLOOR PLAN



1 SERVING
1/2" = 1'-0"



2 MEAL FULFILLMENT AREA
1/2" = 1'-0"

3 MEAL FULFILLMENT AREA
1/2" = 1'-0"

4 MEAL FULFILLMENT AREA
1/2" = 1'-0"

5 MEAL FULFILLMENT AREA
1/2" = 1'-0"

6 SERVING
1/2" = 1'-0"

ELECTRICAL LEGEND

###As	EQUIPMENT ITEM NUMBER
###AR	REUSED EQUIPMENT ITEM NUMBER
A#	REFER TO KEYNOTES ON E-SHEETS
J	JUNCTION BOX (SINGLE GANG)
J	JUNCTION BOX (DOUBLE GANG)
	SIMPLEX RECEPTACLE (SINGLE GANG)
	SIMPLEX RECEPTACLE (DOUBLE GANG)
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE (DOUBLE GANG)
	QUADRAPLEX RECEPTACLE
T	SIDE VIEW SURFACE MOUNTED RECEPTACLE
	SWITCH
	PHONE
H	HUMIDITY SENSOR
T	TEMPERATURE SENSOR
D	SMOKE DETECTOR LED (DOUBLE GANG BOX)
SK	SECURITY KEYPAD

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4	10/20/2025	PLAN CHECK

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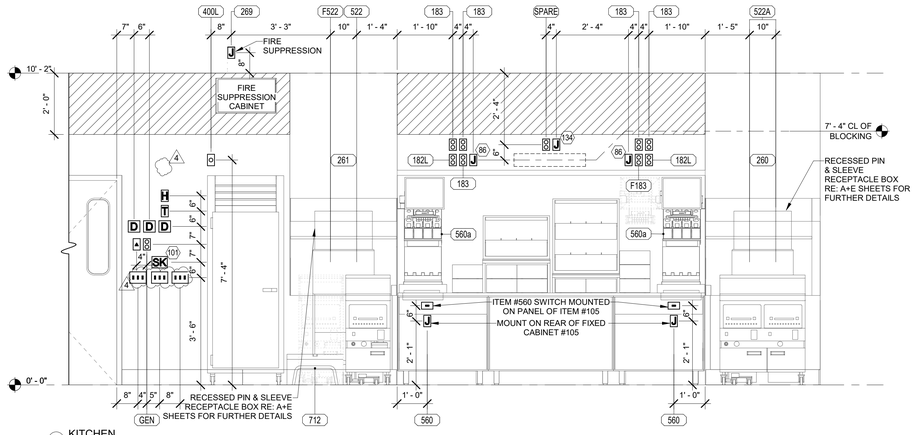
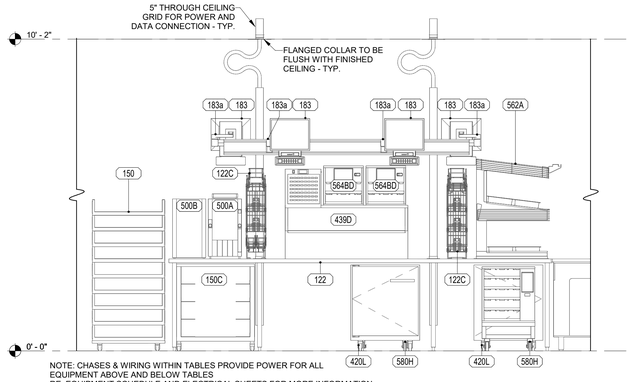
SHEET
ELECTRICAL ROUGH-IN ELEVATIONS

SHEET NUMBER
K-601

10/24/2025 9:50:04 AM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_EQK.rvt
60-LS-05484-K-601-ELECTRICAL ROUGH-IN ELEVATIONS



1 KITCHEN
1/2" = 1'-0"



NOTE: CHASES & WIRING WITHIN TABLES PROVIDE POWER FOR ALL EQUIPMENT ABOVE AND BELOW TABLES
RE: EQUIPMENT SCHEDULE AND ELECTRICAL SHEETS FOR MORE INFORMATION

2 KITCHEN
1/2" = 1'-0"

FLEXIBLE ELECTRICAL CHASES

POINT OF CONNECTION - J-BOX AT TOP OF CHASE

CIRCUIT IG
ISOLATED GROUND

CIRCUIT A
DUPLEX RECEPTACLE
FRANKE HDH 18017713 OR ROUNDUP VCT-2

CIRCUIT B
DUPLEX RECEPTACLE
MERCO MHC22SNL2T OR RANDELL CR9048W-290-CFA OR ROUNDUP VCT-2 OR ANTUNES CW-100

CIRCUIT C
DUPLEX RECEPTACLE

CIRCUIT D
DUPLEX RECEPTACLE
MERCO MHC22SNL2T OR RANDELL CR9048W-290-CFA OR ROUNDUP VCT-2 OR ANTUNES CW-100

CIRCUIT E
DUPLEX RECEPTACLE
MERCO MHC52SNT1T

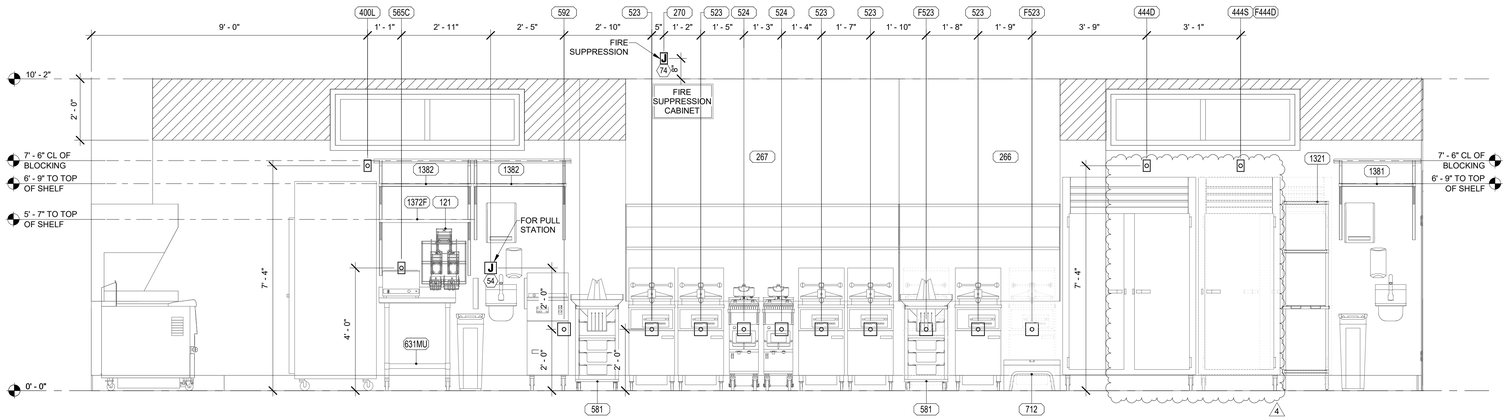
CIRCUIT F
DUPLEX RECEPTACLE

CIRCUIT G
DUPLEX RECEPTACLE
TRAULSEN UHT-27

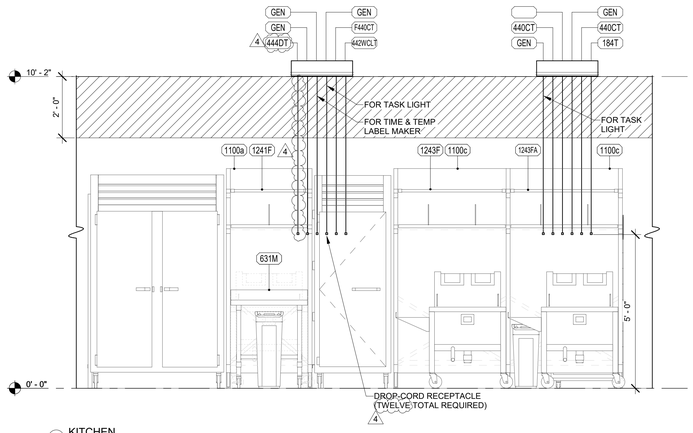
LOCKING RECEPTACLE
NEMA L6-30R 220VAC
ROUNDUP RT-2

ELECTRICAL LEGEND

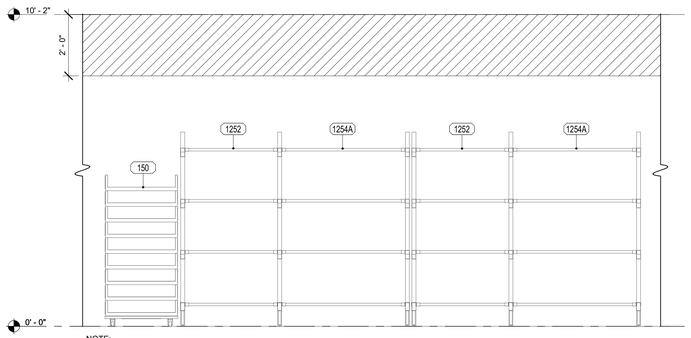
###Aa	EQUIPMENT ITEM NUMBER
###AR	REUSED EQUIPMENT ITEM NUMBER
A#	REFER TO KEYNOTES ON E-SHEETS
J	JUNCTION BOX (SINGLE GANG)
J	JUNCTION BOX (DOUBLE GANG)
	SIMPLEX RECEPTACLE (SINGLE GANG)
	SIMPLEX RECEPTACLE (DOUBLE GANG)
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE (DOUBLE GANG)
	QUADRAPLEX RECEPTACLE
	SIDE VIEW SURFACE MOUNTED RECEPTACLE
	SWITCH
	PHONE
H	HUMIDITY SENSOR
T	TEMPERATURE SENSOR
D	SMOKE DETECTOR LED (DOUBLE GANG BOX)
SK	SECURITY KEYPAD



3 KITCHEN
1/2" = 1'-0"



4 KITCHEN
1/2" = 1'-0"



NOTE:
SEE ELEVATION 4K-602 FOR DROP-CORD RECEPTACLES

5 KITCHEN
1/2" = 1'-0"

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4	10/20/2025	PLAN CHECK

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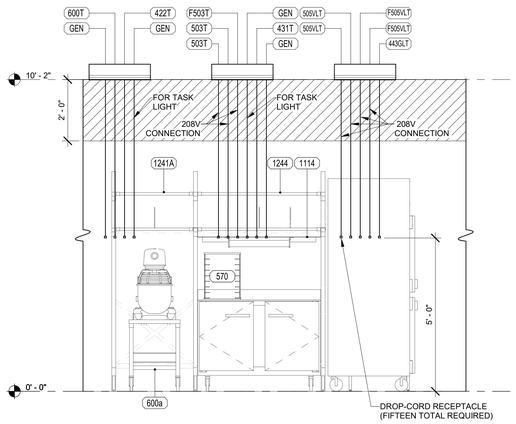
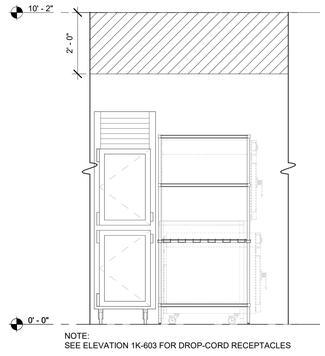
SHEET
ELECTRICAL ROUGH-IN ELEVATIONS

SHEET NUMBER
K-602

10/24/2025 9:50:10 AM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_EQK.rvt
60-LS-05484-K-602-ELECTRICAL ROUGH-IN ELEVATIONS

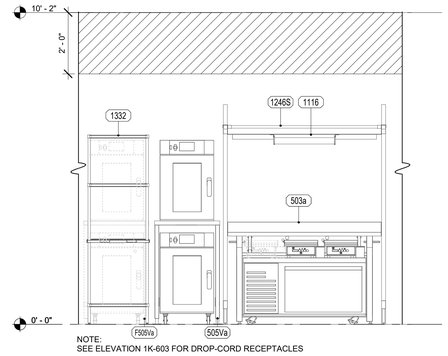


1 KITCHEN
1/2" = 1'-0"



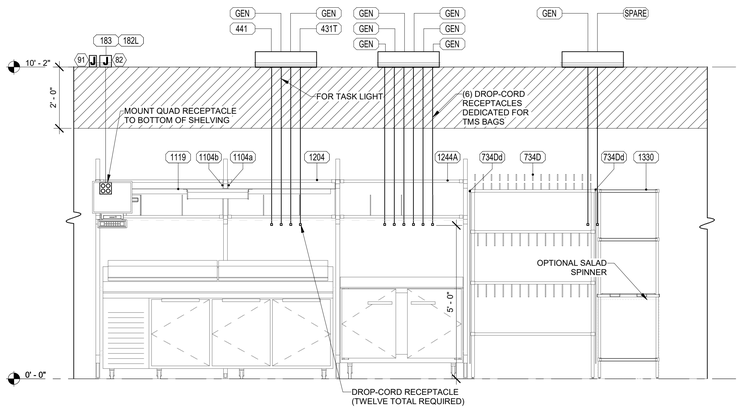
NOTE:
SEE ELEVATION 1K-603 FOR DROP-CORD RECEPTACLES

2 KITCHEN
1/2" = 1'-0"

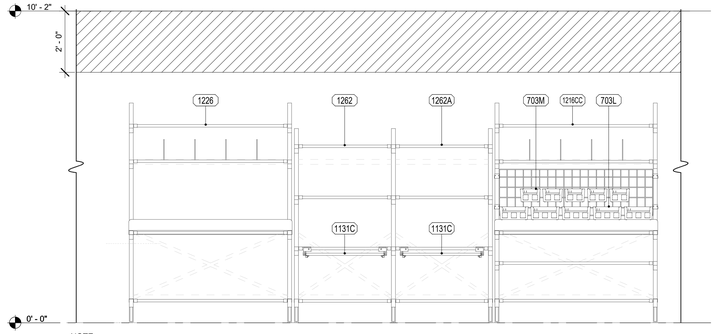


NOTE:
SEE ELEVATION 1K-603 FOR DROP-CORD RECEPTACLES

3 KITCHEN
1/2" = 1'-0"

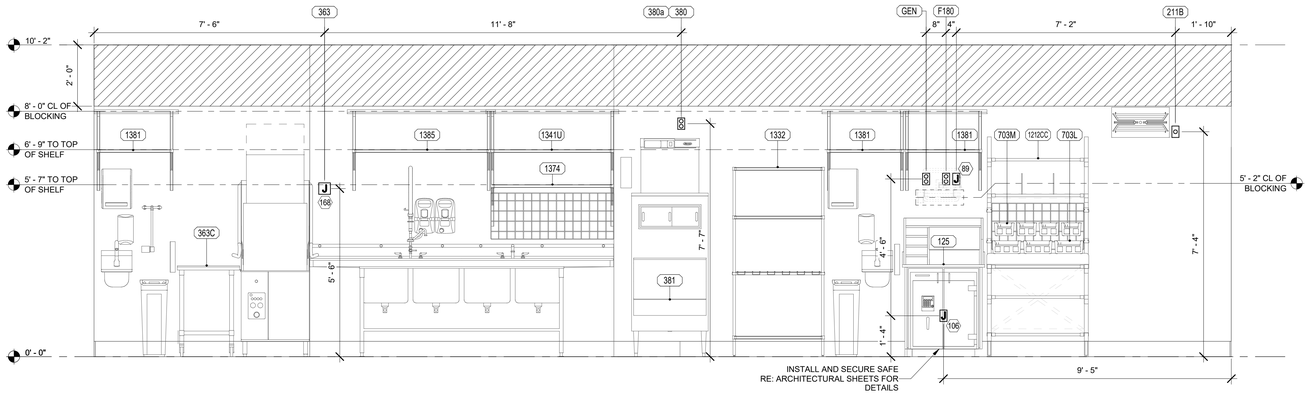


4 KITCHEN
1/2" = 1'-0"

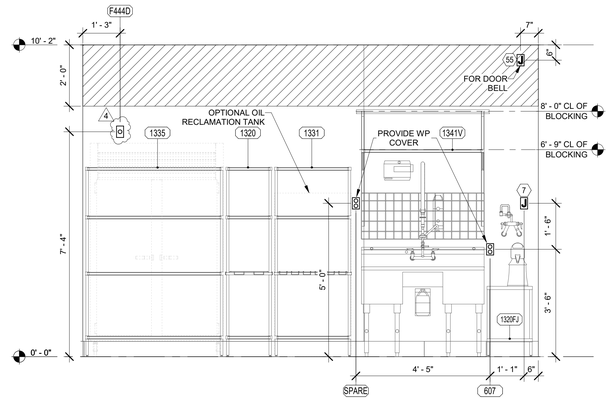


NOTE:
SEE ELEVATION 4K-603 FOR DROP-CORD RECEPTACLES

5 KITCHEN
1/2" = 1'-0"



6 KITCHEN
1/2" = 1'-0"



7 KITCHEN
1/2" = 1'-0"

ELECTRICAL LEGEND	
###Ao	EQUIPMENT ITEM NUMBER
###AR	REUSED EQUIPMENT ITEM NUMBER
Ao	REFER TO KEYNOTES ON E-SHEETS
J	JUNCTION BOX (SINGLE GANG)
J	JUNCTION BOX (DOUBLE GANG)
	SIMPLEX RECEPTACLE (SINGLE GANG)
	SIMPLEX RECEPTACLE (DOUBLE GANG)
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE (DOUBLE GANG)
	QUADRAPLEX RECEPTACLE
	SIDE VIEW SURFACE MOUNTED RECEPTACLE
	SWITCH
	PHONE
H	HUMIDITY SENSOR
T	TEMPERATURE SENSOR
D	SMOKE DETECTOR LED (DOUBLE GANG BOX)
SK	SECURITY KEYPAD

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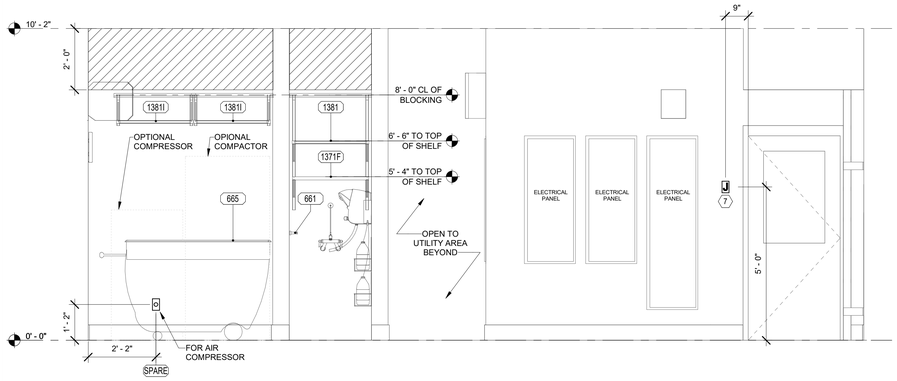
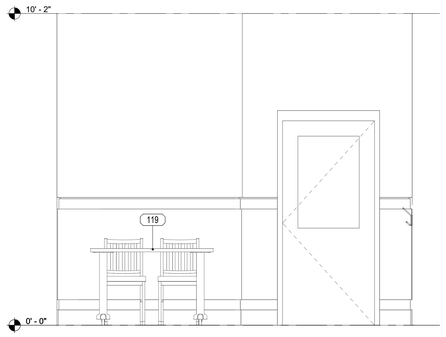
SHEET
ELECTRICAL ROUGH-IN ELEVATIONS

SHEET NUMBER
K-603

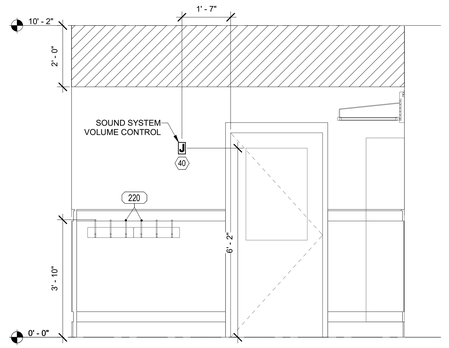
10/24/2025 9:50:15 AM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_EQK.rvt
60-LS-05484-K-603-ELECTRICAL ROUGH-IN ELEVATIONS



1 SERVICE AREA
1/2" = 1'-0"



2 TEAM MEMBER ROOM
1/2" = 1'-0"



3 TEAM MEMBER ROOM
1/2" = 1'-0"

4 TEAM MEMBER ROOM
1/2" = 1'-0"

5 OFFICE
1/2" = 1'-0"

6 OFFICE
1/2" = 1'-0"

7 OFFICE
1/2" = 1'-0"

8 OFFICE
1/2" = 1'-0"

9 SERVICE AREA
1/2" = 1'-0"

10 SERVICE AREA
1/2" = 1'-0"

11 UTILITY
1/2" = 1'-0"

12 UTILITY
1/2" = 1'-0"

13 UTILITY
1/2" = 1'-0"

ELECTRICAL LEGEND

###Aa	EQUIPMENT ITEM NUMBER
###AR	REUSED EQUIPMENT ITEM NUMBER
A#	REFER TO KEYNOTES ON E-SHEETS
J	JUNCTION BOX (SINGLE GANG)
J	JUNCTION BOX (DOUBLE GANG)
	SIMPLEX RECEPTACLE (SINGLE GANG)
	SIMPLEX RECEPTACLE (DOUBLE GANG)
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE (DOUBLE GANG)
	QUADRAPLEX RECEPTACLE
	SIDE VIEW SURFACE MOUNTED RECEPTACLE
	SWITCH
	PHONE
H	HUMIDITY SENSOR
T	TEMPERATURE SENSOR
D	SMOKE DETECTOR LED (DOUBLE GANG BOX)
SK	SECURITY KEYPAD

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SHEET
ELECTRICAL ROUGH-IN ELEVATIONS

SHEET NUMBER
K-604

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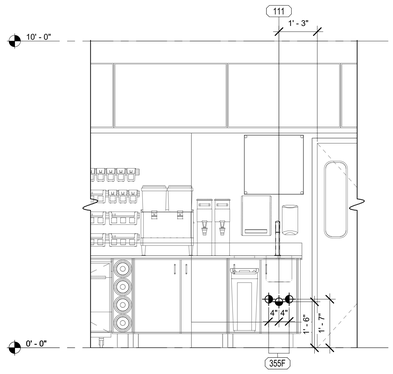
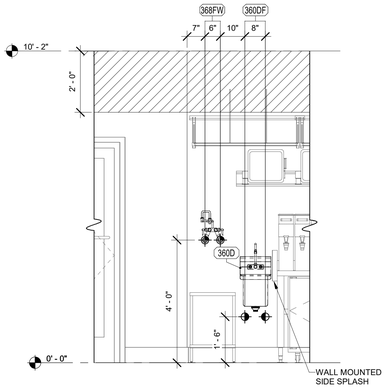
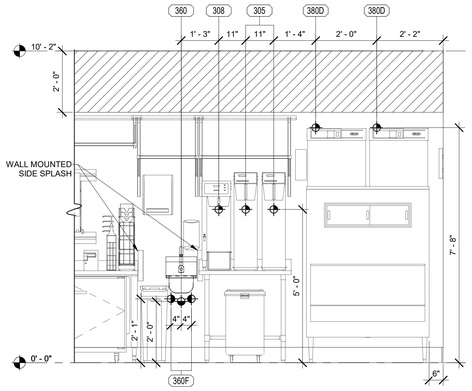
60-LS-05484-K-604-ELECTRICAL ROUGH-IN ELEVATIONS



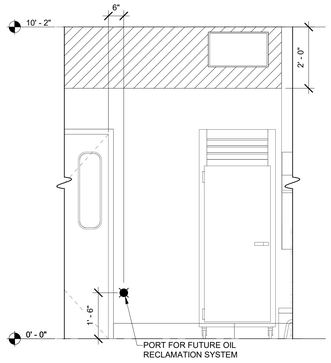
1 SERVING - PLUMBING
1/2" = 1'-0"



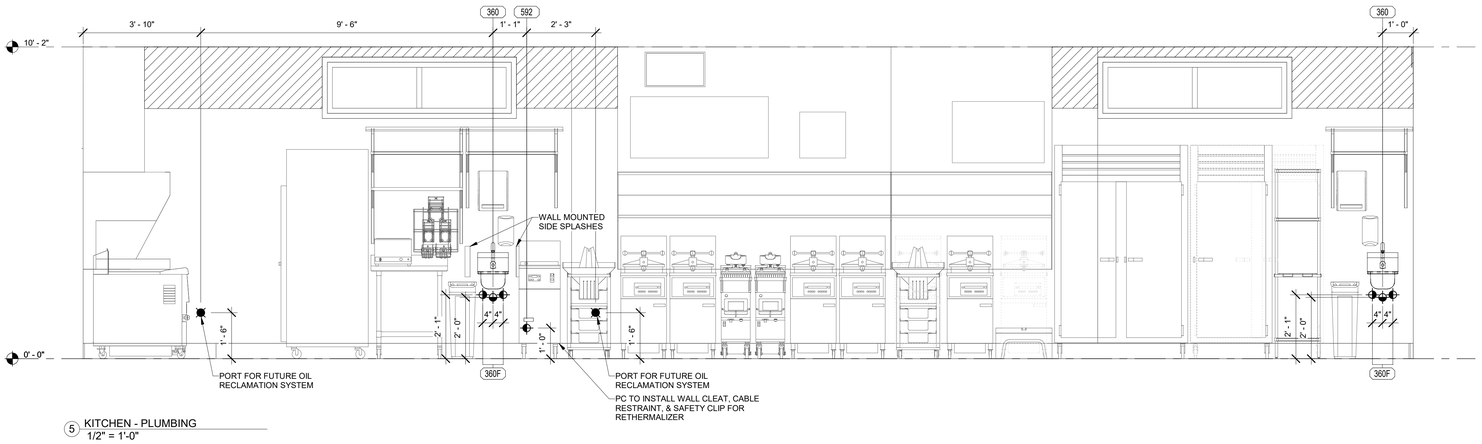
2 MEAL FULFILLMENT AREA - PLUMBING
1/2" = 1'-0"



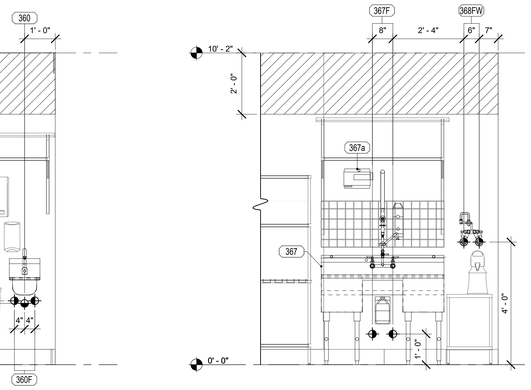
3 MEAL FULFILLMENT AREA - PLUMBING
1/2" = 1'-0"



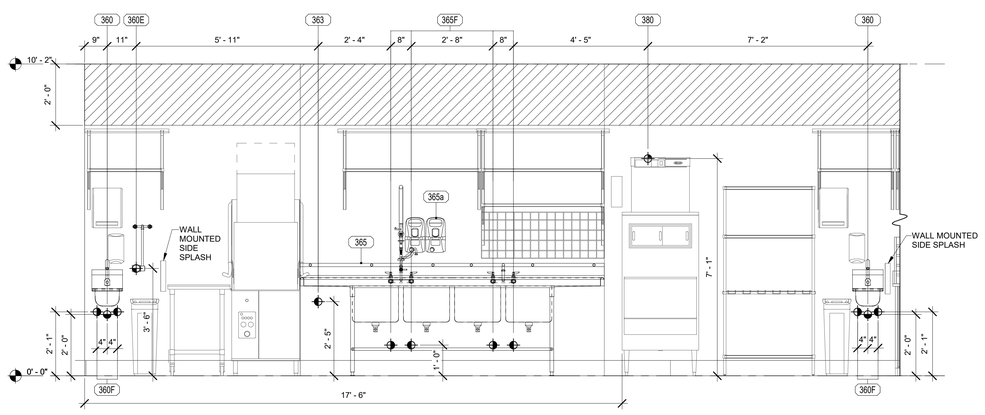
4 KITCHEN - PLUMBING
1/2" = 1'-0"



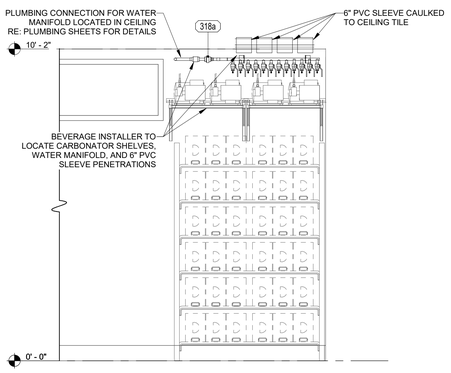
5 KITCHEN - PLUMBING
1/2" = 1'-0"



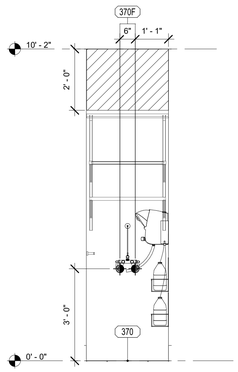
6 KITCHEN - PLUMBING
1/2" = 1'-0"



7 KITCHEN - PLUMBING
1/2" = 1'-0"



8 UTILITY - PLUMBING
1/2" = 1'-0"



9 SERVICE AREA - PLUMBING
1/2" = 1'-0"

PLUMBING LEGEND	
###a	EQUIPMENT ITEM NUMBER
	HOT WATER (HW)
	COLD WATER (CW)
	TEPID WATER (TW)
	FILTERED WATER (FW)
	FILTERED WATER (FW2)
	DIRECT WASTE (DW)
	OIL RECLAMATION PORT
	GAS

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SHEET
PLUMBING ROUGH-IN ELEVATIONS

SHEET NUMBER
K-611

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60-LS-05484-K-611-PLUMBING ROUGH-IN ELEVATIONS

EQUIPMENT SCHEDULE (NEW)

ITEM NO.	QUANTITY	DESCRIPTION OF EQUIPMENT	APPROVED MANUFACTURER	FURNISHED BY	INSTALLED BY	MECHANICAL													ITEM NO.	REMARKS
						ELECTRICAL						PLUMBING								
						VOLT	PH	KW	AMP	HP	PLUG TYPE	HW	CW	TW	FW	FW2	IW	DW		
101	1	SERVING COUNTER	CLAYTON FIXTURE	MLK	KEC														101	REFER TO MANUFACTURER SHOP DRAWINGS
102a	1	MODULAR BEVERAGE CADDY KIT 1	MILLWORK PROVIDER	MWK	KEC														102a	KIT INCLUDES (1) BACKPLATE AND (4) LID HOLDERS
102b	2	MODULAR BEVERAGE CADDY KIT 2	MILLWORK PROVIDER	MWK	KEC														102b	KIT INCLUDES (1) BACKPLATE, (2) LID HOLDERS, (1) STRAW HOLDER, AND (2) TABLE MARKER HOLDERS - (1) DRINK CARRIER TO BE PROVIDED PER RESTAURANT (NOT SHOWN ON DRAWINGS)
102c	1	MODULAR BEVERAGE CADDY KIT 3	MILLWORK PROVIDER	MWK	KEC														102c	KIT INCLUDES (1) BACKPLATE, (4) LID HOLDERS, AND (1) STRAW HOLDER - (1) DRINK CARRIER TO BE PROVIDED PER RESTAURANT (NOT SHOWN ON DRAWINGS)
103	12	CUP DISPENSER	SAN JAMAR MODEL #C2410C	KEC	KEC														103	
105	1	PASS-THRU COUNTER	MILLWORK PROVIDER	MWK	KEC														105	REFER TO MANUFACTURER SHOP DRAWINGS
105a	11	STAINLESS STEEL BIN HOLDER	MILLWORK PROVIDER	MWK	KEC														105a	LOCATED ON PASS-THRU
108	1	BACKLINE COUNTER	MILLWORK PROVIDER	MWK	KEC														108	REFER TO MANUFACTURER SHOP DRAWINGS
111	1	STAINLESS STEEL UNDER COUNTER MOUNT HAND SINK	VOLLRATH MODEL #10101-1	MWK	KEC													1 1/2"	111	PROVIDED IN MILLWORK PACKAGE BY CLAYTON FIXTURE
115S	1	STANDARD DRIVE-THRU CASH COUNTER (24"x84")	ATLANTA CUSTOM FABRICATORS MODEL #3ACF653	KEC	KEC														115S	
116S	1	STANDARD DRIVE-THRU BEVERAGE COUNTER (31"x92")	ATLANTA CUSTOM FABRICATORS MODEL #3ACF740	KEC	KEC														116S	
119	1	MULTI-PURPOSE TABLE	FURNITURE PROVIDER	FURN	KEC														119	RE: FURNITURE SHEETS FOR DETAILS
121	1	WALL MOUNTED SOUP PACKAGING HOLDER	FRANKE MODEL #27807101	KEC	KEC														121	SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
122	1	CENTERLINE 3.0 TABLE WITH INFINITY RAIL (150")	ATLANTA CUSTOM FABRICATORS MODEL #3ACF680	KEC	KEC														122	ORDER WITH (2) 3ACF298 CHASES
122B	1	XL MENU TAB PACKAGING HOLDER	FRANKE MODEL #27807100	KEC	KEC														122B	
122C	1	MIDLINE PRIMARY PACKAGING SYSTEM	FRANKE MODEL #27803615	KEC	KEC														122C	MODEL INCLUDES (2) PACKAGING TOWERS
125	1	SAFE COUNTER	MILLWORK PROVIDER	MWK	KEC														125	REFER TO MANUFACTURER SHOP DRAWINGS
126S	1	STANDARD DRIVE-THRU DESSERT COUNTER (30"x41")	ATLANTA CUSTOM FABRICATORS MODEL #3ACF382	KEC	KEC														126S	
127	1	MOBILE COCKPIT COUNTER	MILLWORK PROVIDER	MLK	KEC														127	REFER TO MANUFACTURER SHOP DRAWINGS
128S	1	DRIVE-THRU DESSERT STAGING TABLE (30"x12")	ATLANTA CUSTOM FABRICATORS MODEL #3ACF377	KEC	KEC														128S	
135	2	COUNTERTOP	MILLWORK PROVIDER	MWK	KEC														135	REFER TO MANUFACTURER SHOP DRAWINGS
136	5	UPPER SHELF	MILLWORK PROVIDER	MWK	KEC														136	REFER TO MANUFACTURER SHOP DRAWINGS
145D	1	CONDIMENT COUNTER	MILLWORK PROVIDER	MWK	KEC														145D	REFER TO MANUFACTURER SHOP DRAWINGS
146D	4	TRASH CONTAINER	MILLWORK PROVIDER	MWK	KEC														146D	REFER TO MANUFACTURER SHOP DRAWINGS
149	2	SNEAKER KEEPER BENCH	MILLWORK PROVIDER	MWK	KEC														149	REFER TO MANUFACTURER SHOP DRAWINGS
150	3	BREAD RACK	LOCAL SUPPLIER	OWN	OWN														150	
150C	1	BREAD RACK CART (30.5"x48")	ATLANTA CUSTOM FABRICATORS MODEL #3ACF820	KEC	KEC														150C	
180	7	ORDER REGISTER	NCR MODEL #P1230	IT	IT	120	1		0.70		5-20P								180	
180a	3	RADIAL ARM	INNOVATIVE MODEL #7000	IT	IT														180a	USED TO MOUNT ORDER MONITORS
181	5	CASH DRAWER	APG MODEL #4000	IT	IT														181	PROVIDED BY CFA IT
182	4	RECEIPT PRINTER	EPSON MODEL #TM-T88IV	IT	IT	24	1		1.80		5-20P								182	PROVIDED BY CFA IT WITH 120V/24V POWER SUPPLY ADAPTER FOR USE WITH 120V IG OUTLET
182a	2	PRINTER CADDY	ONSITE	IT	IT														182a	USED TO MOUNT PRINTER TO ORDER MONITOR
182L	6	LABEL PRINTER	EPSON MODEL #TM-L90	IT	IT	24	1		1.70		5-20P								182L	PROVIDED BY CFA IT WITH 120V/24V POWER SUPPLY ADAPTER FOR USE WITH 120V IG OUTLET
183	14	ORDER MONITOR	RADIANT KITCHEN PRODUCTION SYSTEM	IT	IT	120	1		0.125		5-20P								183	PROVIDED BY CFA IT
183a	14	RADIAL ARM	INNOVATIVE MODEL #7000	IT	IT														183a	USED TO MOUNT ORDER MONITORS
184	1	IPAD	APPLE	VEN	IT	120	1	0.120	1.00		5-20P								184	PROVIDED BY CONNECTION
184T	1	ITIMER	APPLE	SML	IT	120	1	0.120	1.00		5-20P								184T	PROVIDED BY CLARK
190	1	DRIVE-THRU VIDEO MONITOR	ACER MODEL #V173DJB	IT	IT	120	1		0.8		5-20P								190	
190a	1	RADIAL ARM	INNOVATIVE MODEL #7000	IT	IT														190a	USED TO MOUNT ORDER MONITORS
192	1	INFINITY RAIL (84")	ERGOMART MODEL #RT-84-CAB-16HC	KEC	KEC														192	MOUNT TO WALL WITH INCLUDED HARDWARE
200S	4	SLIM LINE TEA DISPENSER (SWEET)	WILBUR CURTIS MODEL #TCN040-SW	KEC	KEC														200S	
200U	3	SLIM LINE TEA DISPENSER (UNSWEET)	WILBUR CURTIS MODEL #TCN040-US	KEC	KEC														200U	
201	1	ICE CREAM CONE DISPENSER	DISPENSE-RITE MODEL #BCDS-BFL	KEC	KEC														201	
202	6	SLIM JIM TRASH CAN	RUBBERMAID MODEL #FG354060GRAY	SML	OWN														202	PROVIDED BY CLARK
202A	2	UNDER-COUNTER SLIM JIM TRASH CAN	RUBBERMAID MODEL #1971258	MWK	OWN														202A	
206	6	SOAP DISPENSER	ECOLAB MODEL #92211379	VEN	VEN														206	RE: ARCHITECTURAL SHEETS FOR DETAILS ON MOUNTING HEIGHTS AND LOCATIONS
210	1	INGREDIENT BIN	RUBBERMAID MODEL #3602-88	SML	OWN														210	PROVIDED BY CLARK
211B	5	FLY LIGHT (MANTIS QUALIS)	PESTWEST MODEL #125-000502	KEC	EC	120	1	0.013	0.11		5-20P								211B	CLOCK STYLE RECEPTACLE REQUIRED
211C	3	FLY LIGHT (MANTIS SIRIUS X)	PESTWEST MODEL #125-000513	KEC	EC	120	1	0.013	0.11		5-20P								211C	CLOCK STYLE RECEPTACLE REQUIRED - RE: ARCHITECTURAL SHEETS FOR MOUNTING DETAILS
215	1	KEY CABINET	BARSKA MODEL #CB13364	SML	OWN														215	PROVIDED BY CLARK
220	2	COAT RACK	SAFCO MODEL #4161	SML	GC														220	PROVIDED BY CLARK
225	1	FAT VAT	PITCO FRIALATOR MODEL FAT VAT	SML	OWN														225	PROVIDED BY CLARK
230	6	HIGH CHAIR	RUBBERMAID MODEL #FG780508	SML	OWN														230	PROVIDED BY CLARK
240	2	BABY CHANGING STATION	RUBBERMAID MODEL #FG781888	KEC	KEC														240	RE: ARCHITECTURAL SHEETS FOR MOUNTING DETAILS
260	1	42" BACKSHELF HOOD + 3" STANDOFF	HALTON	VEN	GC														260	HOOD SHROUD BY VENT HOOD MANUFACTURER - REFER TO SHOP DRAWINGS
261	1	42" BACKSHELF HOOD	HALTON	VEN	GC														261	HOOD SHROUD BY VENT HOOD MANUFACTURER - REFER TO SHOP DRAWINGS
266	1	63" BACKSHELF HOOD	HALTON	VEN	GC														266	HOOD SHROUD BY VENT HOOD MANUFACTURER - REFER TO SHOP DRAWINGS
267	1	107" BACKSHELF HOOD	HALTON	VEN	GC														267	HOOD SHROUD BY VENT HOOD MANUFACTURER - REFER TO SHOP DRAWINGS
269	1	FIRE SUPPRESSION SYSTEM	HALTON	VEN	GC	120	1		VERIFY		DIRECT CONNECTION								269	REMOTE CABINET - REFER TO SHOP DRAWINGS - FED FROM CFA-T500 PANEL
270	1	FIRE SUPPRESSION SYSTEM	HALTON	VEN	GC	120	1		VERIFY		DIRECT CONNECTION								270	LOCATED ABOVE HOOD BEHIND CLOSURE PANEL - REFER TO SHOP DRAWINGS - FED FROM CFA-T500 PANEL
300a	1	MILKSHAKE BASE DISPENSER	KANPAK MODEL #CDE211	KEC	KEC	120	1		2.00		5-15P								300a	MOUNTED ON ITEM #300b
300b	1	MILKSHAKE BASE DISPENSER SHELF	ALL SOUTHERN FABRICATORS	KEC	KEC														300b	
300c	2	SINGLE-SPINDLE MIXER	HAMILTON BEACH MODEL #HMD300M-CFA	KEC	KEC														300c	
300d	1	TOPPING DISPENSER/HOLDER	ALL SOUTHERN FABRICATORS MODEL #7200-NCH	KEC	KEC														300d	RIGHT HAND MOUNT - ORDER (1) #3FRA112
300f	1	DOUBLE SLIMLINE COOKIE DISPENSER	SERVER MODEL #100416	KEC	KEC														300f	
300X	1	DOUBLE BARREL ICE CREAM MACHINE	TAYLOR MODEL #079333BWDC (AIR COOLED)	KEC	KEC	208	3		13.00/13.00	1.50/1.50	15-30P/15-20P								300X	PROVIDED WITH HUBBELL #HBL8432C AND #HBL8421C ANGLE PLUGS
301C	1	CUP DISPENSER & LID ORGANIZER	WIREWORKS #C8504WF	KEC	OWN														301C	
305	2	TEA BREWER	WILBUR CURTIS MODEL #TCTT-10000	KEC	PC	120	1	1.650	13.80		5-15P				3/8"				305	PROVIDE QUICK DISCONNECT HOSES
308	1	SINGLE COFFEE MAKER	WILBUR CURTIS MODEL #TP2S10A3140	KEC	KEC	208	1	4.000	19.20		L14-30P				3/8"				308	QUICK DISCONNECT HOSES PROVIDED BY CFA WAREHOUSE
308a	2	COFFEE DISPENSER	WILBUR CURTIS MODEL #TFT1G3040	KEC	OWN														308a	ORDER (2) ADDITIONAL DISPENSERS (NOT SHOWN ON DRAWINGS)
308b	1	COFFEE WARMER STAND	QUADRA TECH MODEL #CFA3QDT008	KEC	OWN														308b	
308e	1	SYRUP RACK	MONIN MODEL #P573	SML	OWN														308e	PROVIDED BY CLARK
310	3	DOUBLE LEMONADE BUBBLER	CRATHCO MODEL #CS-2D-16	KEC	KEC	120	1		8.50	0.10	5-15P								310	ORDER (1) #3CRA016 BOWL KIT AND (1) #3CRA018 BASE PER BUBBLER AND ORDER TOTAL OF (1) #3CRA021 SET OF (2) 2.4 GAL BOWLS
315W	4	10-HEAD BEVERAGE DISPENSER WITH ICE BIN	LANCER MODEL #85-23710T-111-07-CFA	KEC	VEN	115	1		10.00		5-15P/5-15P						3/4"		315W	PROVIDED WITH (2) CORDS AND PLUGS PER TOWER
316	1	CO2 TANK	CHART INDUSTRIES MODEL #CARBO-MAX 600	KEC	VEN														316	SECURE TO WALL WITH CHAIN - VENT LINE NOT TO EXCEED 100 FT - CO2 FILL BOX TO BE WITHIN 15 FT OF TANK
317	1	BEVERAGE RACK SYSTEM (6 SHELF - 6 WIDE)	PROFITMASTER MODEL #3PMD010	KEC	KEC														317	
318a	1	12-STOP WATER MANIFOLD PANEL	ELLIS ENTERPRISE MODEL #636319	KEC	PC										3/4"				318a	RE: PLUMBING SHEETS FOR DETAILS
320	4	TURBO CARBONATOR	LANCER MODEL #85-1923-03	KEC	VEN	115	1		6.2		5-20P								320	ORDER (6) #44231, (2) #44233, (6) DR. PEPPER PUMPS, & (2) #C77004
350	1	WATER FILTRATION SYSTEM - TYPE A	SELECTO SCIENTIFIC T1 FILTER SYSTEM MODEL #80-6203CFB-PEX	KEC	PC									3/4"					350	RE: PLUMBING SHEETS FOR DETAILS
355F	1	SENSOR FAUCET (DECK MOUNTED HAND SINK)	TOTO MODEL #T24T51ET#CP	PC	PC							1/2"	1/2"						355F	PROVIDED BY HJC
359	5	WALL MOUNTED SPLASH GUARD	ATLANTA CUSTOM FABRICATORS MODEL #3ACF460	KEC	GC														359	RIGHT HAND MOUNT - 12 IN HIGH x 24 IN WIDE S/S WALL MOUNTED SIDE SPLASH WITH HEMMED EDGE
359L	2	WALL MOUNTED SPLASH GUARD	ATLANTA CUSTOM FABRICATORS MODEL #3ACF459	KEC	GC														359L	LEFT HAND MOUNT - 12 IN HIGH x 24 IN WIDE S/S WALL MOUNTED SIDE SPLASH WITH HEMMED EDGE
360	5	HAND SINK	EAGLE MODEL #YCFA-HSAN-0004-00	KEC	PC													1 1/2"	360	WITH SIDE MOUNTING BRACKETS
360D	1	DUMP SINK	ATLANTA CUSTOM FABRICATORS MODEL #3ACF354	KEC	PC													1 1/2"	360D	PROVIDED WITH BASKET DRAIN AND PERFORATED SCRAP BASKET
360DF	1	FAUCET (DUMP SINK)	T&S MODEL #B-1146-CFA-VF05	PC	PC							1/2"	1/2"						360DF	PROVIDED BY HJC
360E	1	EMERGENCY EYEWASH STATION	ACORN MODEL #S0660-RH	PC	PC									1/2"					360E	TO BE MOUNTED TO WALL BETWEEN 33 IN AND 45 IN AFF - PROVIDED BY HJC
360F	5	SENSOR FAUCET (WALL MOUNTED HAND SINK)	TOTO MODEL #TEL165-C20E#CP	PC	PC							1/2"	1/2"						360F	PROVIDED BY HJC WITH THP3094 NOZZLE
363	1	HIGH-TEMP UPRIGHT DISHWASHER	CHAMPION MODEL #DH600T	KEC	PC	208	3		46	2.00	15-60P			3/4"				1 1/2"	363	PROVIDED WITH DRAIN WATER TEMPERING KIT
363C	1	CLEAN DISH TABLE	ATLANTA CUSTOM FABRICATORS MODEL #3ACF251	KEC	KEC														363C	WITH UNDERSHELF ON 5 IN CASTERS
365	1	4 COMPARTMENT UTENSIL SINK	EAGLE GROUP MODEL #YCFA 314-18-4-19.5	KEC	PC													1 1/2"	365	(4) IW - WITH (2) 18" DRAIN BOARDS - HJC TO PROVIDE (4) FISHER #22209 DRAINS W/FLAT STRAINERS
365a	1	4 COMPARTMENT SINK CHEMICAL DISPENSER	SOLIDSENSE	OWN	PC														365a	PROVIDED BY OPERATOR
365F	1	UTENSIL SINK FAUCET	T&S MODEL #B-0152-14-CRBCT & B2299-CR	PC	PC							1/2"	1/2"						365F	(2) HW, (2) CW - PROVIDED BY HJC
367	1	DOUBLE BOWL VEGETABLE PREP SINK	EAGLE GROUP MODEL #YCFA-2472-00	KEC	PC													1 1/2"	367	(2) IW - W/16" CENTER DRAIN BOARD & HOLE IN BACKSPLASH - HJC TO PROVIDE (2) FISHER #22209 DRAINS W/FLAT STRAINERS - RE: PLUMBING SHEETS FOR STANDOFF DETAIL
367a	1	VEGETABLE WASH DISPENSER	ECOLAB ANTIMICROBIAL FRUIT & VEGETABLE TREATMENT	OWN	PC														367a	
367F	1	VEGETABLE PREP SINK FAUCET	T&S MODEL #B-0152-14-CRBCT	PC	PC							1/2"	1/2"						367F	PROVIDED BY HJC
368FW	2	FILTERED WATER FAUCET (WALL MOUNTED)	T&S MODEL #B-0599-CR	PC	PC										1/2"				368FW	(2) FW - PROVIDED BY HJC
370	1	MOP SINK	BUILT-IN BY G.C.	GC	GC							1/2"	1/2"				3"		370	SUNKEN 24"x36" - WALL @ (3) SIDES - STAINLESS STEEL WALL PANELS TO 42" A.F.F.
370a	1	MOP SINK CHEMICAL DISPENSER	SOLIDSENSE	OWN	PC														370a	
370F	1	MOP SINK FAUCET	T&S MODEL #B-2345	PC	PC							1/2"	1/2"						370F	
371	2	MOP BUCKET		SML	OWN														371	PROVIDED BY CLARK
380	1	ICE MACHINE (AIR-COOLED REMOTE)	FOLLETT MODEL #D1412R-C	KEC	VEN	115	1	0.600	5.00		5-15P				1/2"		3/4"		380	ORDER WITH 35' LINE SETS - PROVIDED WITH 6' CORD AND PLUG
380a	2	ICE BIN SANITATION SYSTEM	BIOZONE MODEL #IZ-X-20	KEC	RSUB	120	1	0.0096			5-15P								380a	INSTALLED ON WALL ABOVE ICE BIN - SHARES DUPLEX WITH (1) ICE MACHINE
380C	1	ICE MACHINE REMOTE CONDENSING UNIT (AIR COOLED)	FOLLETT MODEL #F1412CU	KEC	GC	208	3	3.000	12.00		DIRECT CONNECTION								380C	GC SHALL INSTALL CONDENSER - NOT SHOWN ON DRAWINGS - RE: MECHANICAL SHEETS FOR DETAILS
380CD	2	ICE MACHINE REMOTE CONDENSING UNIT (AIR COOLED)	FOLLETT MODEL #01571181	KEC	GC	208	3	3.600	15.70		DIRECT CONNECTION								380CD	GC SHALL INSTALL CONDENSER - NOT SHOWN ON DRAWINGS - RE: MECHANICAL SHEETS FOR DETAILS
380D	2	ICE MACHINE (AIR-COOLED REMOTE)	FOLLETT MODEL #D1810R-C	KEC	VEN	115	1	0.368	5.00		5-15P				1/2"		3/4"		380D	ORDER WITH 35' LINE SETS - PROVIDED WITH 6' CORD AND PLUG
381	1	ICE BIN (30" WIDE X 64" HIGH)	FOLLETT MODEL #SG700S-30	KEC	KEC												1"		381	ORDER WITH 10 IN LEGS AND ICE PADDLE
384	1	ICE BIN (48" WIDE X 69" HIGH)	FOLLETT MODEL #SG1300S-48	KEC	KEC												1"		384	ORDER WITH 10 IN LEGS AND ICE PADDLE
400L	2	SINGLE UPRIGHT FREEZER (30" WIDE)	TRAULSEN MODEL #RLT132WUT-FHS	KEC	KEC	115	1	1.100	9.40		5-15P								400L	HINGE LEFT - PROVIDE FINISHED BACK - ORDER ON 4 5/8 IN CASTERS
410	1	WALK-IN FREEZER	THERMOKOOL	KEC	RSUB	120	1		3.30		DIRECT CONNECTION								410	ORDER WITHOUT FLOOR - REFER TO LIGHTING PLAN
410a	2	WALK-IN FREEZER CONDENSER	THERMOKOOL MODEL #BCH0035LCACZ	KEC	RSUB	208	3		16.30	3.5	DIRECT CONNECTION								410a	GC SHALL INSTALL CONDENSER - NOT SHOWN ON DRAWINGS - RE: MECHANICAL SHEETS FOR DETAILS
410b	2	WALK-IN FREEZER EVAPORATOR	THERMOKOOL MODEL #BEL0130BS6EEA	KEC	RSUB	208	1		1.50		DIRECT CONNECTION							3/4"	410b	POWER FED FROM CONDENSER
420	1	SINGLE UNDERCOUNTER REFRIGERATOR (27")	TRAULSEN MODEL #UHT27-ZCF	KEC	KEC	115	1		7.50	0.25	5-15P								420	HINGE RIGHT - ORDER WITH 4 1/8" CASTERS
420A	1	SINGLE UNDERCOUNTER REFRIGERATOR (27")	TRAULSEN MODEL #UHT27-ZCF	KEC	KEC	115	1		7.50	0.25	5-15P								420A	HINGE RIGHT - ORDER WITH 2 3/16" CASTERS
420L	4	SINGLE UNDERCOUNTER REFRIGERATOR (27")	TRAULSEN MODEL #UHT27-ZCF	KEC	KEC	115	1		7.50	0.25	5-15P								420L	HINGE LEFT - ORDER WITH 4 1/8" CASTERS
421	1	DOUBLE UNDERCOUNTER REFRIGERATOR	TRAULSEN MODEL #UHT48-ZCF-LR	KEC	KEC	115	1	0.756	6.30	0.20	5-15P								421	ORDER ON 4 IN CASTERS
422T	1	REFRIGERATED EQUIPMENT STAND (48")	TRAULSEN MODEL #TE048HT-ZCFO1	KEC	KEC	115	1	0.80	6.70	0.33	L5-15P								422T	EC TO CHANGE PLUG TO TWIST LOCK - PROVIDED W/9' CORD - ORDER ON 4" CASTERS
431T	2	DOUBLE WORKTOP REFRIGERATOR (48")	TRAULSEN MODEL #UHT48-ZCF-LR	KEC	KEC	115	1		7.50	0.25	L5-20P (BY EC)								431T	ORDER WITH 6 1/4" CASTERS AND BACKSPLASH TOP - EC TO CHANGE PLUG TO TWIST LOCK
439D	1	DUAL-SIDED COLD RAIL (48")	RANDELL MODEL #CR9048W-290-CFA	KEC	KEC	115	1		3.50	0.25	5-15P								439D	SUPPLIED WITH 9' CORD AND PLUG
440CT	2	ICE BATH BREADING TABLE	DUKE MODEL #BSTA-120-US	KEC	KEC	120	1		1.00		L5-15P (BY EC)								440CT	EC TO CHANGE PLUG TO TWIST LOCK - 10 FT CORD AND PLUG - LEAF INCLUDED WITH TABLE - INSTALL IF SHOWN ON PLANS
441	1	SALAD PREP TABLE (90")	TRAULSEN MODEL #TS090HT-ZCF03	KEC	KEC	115	1		7.70	0.50	L5-15P								441	ORDER WITH 4" CASTERS - INCLUDES PAN PACKAGE - PROVIDED WITH TWIST LOCK PLUG
442WCLT	1	SINGLE UPRIGHT REFRIGERATOR (30" WIDE)	TRAULSEN MODEL #RH132W-ZCF17	KEC	KEC	115	1		7	0.333	L5-15P (BY EC)								442WCLT	HINGE LEFT - PROVIDE FINISHED BACK - ORDER ON 6 IN CASTERS - EC TO CHANGE PLUG TO TWIST LOCK
443GLT	1	SINGLE UPRIGHT REFRIGERATOR (24" WIDE)	TRAULSEN MODEL #RHT132GUT-HHG	KEC	KEC	115	1		8.00	0.30	L5-15P (BY EC)								443GLT	HINGE LEFT - HALF HEIGHT GLASS DOORS - PROVIDE FINISHED BACK - ORDER ON 6 IN CASTERS - EC TO CHANGE PLUG TO TWIST LOCK
4 444D	1	DOUBLE THAWING CABINET (52 1/8")	TRAULSEN MODEL #RE232N-ZCF02	KEC	KEC	115	1		14.00	0.5	5-20P								444D	HINGE STANDARD - ORDER WITH 6 1/4" CASTERS - PROVIDED WITH 9' CORD AND PLUG
4 444DT	1	DOUBLE THAWING CABINET (52 1/8")	TRAULSEN MODEL #RE232N-ZCF02	KEC	KEC	115	1		14.00	0.5	L5-20P (BY EC)								444DT	HINGE STANDARD - ORDER WITH 6 1/4" CASTERS - PROVIDED WITH 9' CORD AND PLUG - EC TO CHANGE PLUG TO TWIST LOCK
4 444S	1	SINGLE THAWING CABINET (32")	TRAULSEN MODEL #RE132E-ZCF03	KEC	KEC	115	1		12.00	0.5	5-20P								444S	HINGE RIGHT - ORDER WITH 6 1/4" CASTERS - PROVIDED WITH 9' CORD AND PLUG
449	1	WALK-IN COOLER	THERMOKOOL	KEC	RSUB	120	1		2.40		DIRECT CONNECTION								449	ORDER WITHOUT FLOOR - REFER TO LIGHTING PLAN
449a	1	WALK-IN COOLER CONDENSER	THERMOKOOL MODEL #BCH0010MCACZ	KEC	RSUB	208	3		9.50	1	DIRECT CONNECTION								449a	GC SHALL INSTALL CONDENSER - NOT SHOWN ON DRAWINGS - RE: MECHANICAL SHEETS FOR DETAILS
449b	1	WALK-IN COOLER EVAPORATOR	THERMOKOOL MODEL #BEL0095BS6AMA	KEC	RSUB	208	1	0.110	1.00		DIRECT CONNECTION							3/4"	449b	POWER FED FROM CONDENSER
500A	2	VERTICAL CONTACT TOASTER	ROUNDUP MODEL #VCT-2	KEC	KEC	120	1	1.80	15.00		5-15P								500A	
500B	1	RADIANT TOASTER	ROUNDUP MODEL #RT-2	KEC	KEC	208	1	5.50	24.00		L6-30P								500B	PROVIDED WITH TWIST LOCK PLUG
503a	1	EGG TABLE (60")	ATLANTIC CUSTOM FABRICATORS MODEL #CFA-ET-501	KEC	KEC														503a	
503T	2	EGG STATION	ANTUNES MODEL #ES-600R 9300657	KEC	KEC	208	1	2.5	12.5		L6-20P								503T	PROVIDED W/TWIST LOCK PLUG
505Va	1	VECTOR OVEN STAND	ALTO-SHAAM MODEL #5034382-0	KEC	KEC														505Va	INCLUDES GASKET FOR STACKING VECTOR OVENS
505VLT	2	VECTOR OVEN	ALTO-SHAAM MODEL #VMC-H3H 106226	KEC	KEC	208	3	7.90	22.00		L15-30P (BY EC)								505VLT	HINGE LEFT - EC TO CHANGE PLUG TO TWIST LOCK
522	1	SINGLE OPEN FRYER	HENNY PENNY MODEL #CFE-410	KEC	KEC	208	3	22.000	62.00		PIN & SLEEVE								522	PIN & SLEEVE PROVIDED WITH EQUIPMENT AND RECEPTACLE BOX PROVIDED WITH HALTON ITEMS - (1) POWER CONNECTION PER WELL
522A	1	DOUBLE OPEN FRYER	HENNY PENNY MODEL #CFE-420	KEC	KEC	208	3	22/22	62/62		PIN & SLEEVE								522A	PIN & SLEEVE PROVIDED WITH EQUIPMENT AND RECEPTACLE BOX PROVIDED WITH HALTON ITEMS - (1) POWER CONNECTION PER WELL
523	5	PRESSURE FRYER	HENNY PENNY MODEL #PFE-500	KEC	KEC	208	3	13.500	38.00		15-50P								523	PROVIDED WITH 6 FT CORD AND PLUG
524	2	DUAL SIDE CLAMSHELL GRILL	GARLAND MODEL #CXPB12	KEC	KEC	208	3	3.3	24.1/28.2/23.1		15-50P								524	PROVIDED WITH 5' CORD & PLUG
560	2	FRY HOLDING STATION	BKI MODEL #FW-15BB 312007F (FW15-00000018)	KEC	KEC	120	1	1.900	15.40		DIRECT CONNECTION								560	
560a	2	FRY CARTON DISPENSER ASSEMBLY	SAN JAMAR MODEL #WFD210 AND #WFD230	KEC	KEC														560a	ORDER MOUNTING RACK AND 4-PIECE CHUTE KIT
562A	2	HIGH DENSITY HOT HOLDING TOWER	FRANKE MODEL #18017713	KEC	KEC	120	1	1.80	16.00		5-20P								562

EQUIPMENT SCHEDULE (NEW)

ITEM NO.	QUANTITY	DESCRIPTION OF EQUIPMENT	APPROVED MANUFACTURER	FURNISHED BY	INSTALLED BY	MECHANICAL						PLUMBING							ITEM NO.	REMARKS
						ELECTRICAL														
						VOLT	PH	KW	AMP	HP	PLUG TYPE	HW	CW	TW	FW	FW2	IW	DW		
600T	1	MIXER	HOBART MODEL #HL200-1	KEC	KEC	120	1		8.00	0.50	L5-20P (BY EC)								600T	EC TO CHANGE PLUG TO TWIST LOCK - ORDER WITH (1) 3HOB405, (1) 3HOB061, (2) 3HOB318, (2) 3HOB319, AND (1) 3HOB058
605	1	MOBILE CART	INTERMETRO MODEL #MV206	KEC	KEC														605	NOT SHOWN ON DRAWING; ORDER ON 5" CASTERS
607	1	COUNTERTOP LEMON JUICER	SUNKIST MODEL #JL-1	KEC	KEC	115	1			0.25	5-15P								607	
622L	1	FOOD PREP TABLE	EAGLE MODEL #T2436STE-BS	KEC	KEC														622L	WITH BACKSPLASH - ORDER WITH 1 5/8 IN DIAMETER LEGS
631M	1	FILET TABLE (30"X30")	ATLANTA CUSTOM FABRICATORS MODEL #3ACF355	KEC	KEC														631M	WITH MARINE EDGE AND BACKSPLASH ON 5 IN CASTERS
631MU	1	FOOD PREP TABLE	EAGLE MODEL #T3030SEM4-BS	KEC	KEC														631MU	WITH MARINE EDGE, UNDERSHELF, AND BACKSPLASH - ORDER ON 5 IN CASTERS
651P	4	LOCKERS	SALSBURY INDUSTRIES #64165GY-A	KEC	KEC														651P	STD. METAL LOCKER - 4-TIER, 1 WIDE - DEEP GRAY - WITHOUT LEGS
651Pa	16	LOCKER ACCESSORIES	SALSBURY INDUSTRIES #77795, 77760	KEC	KEC														651Pa	NOT SHOWN ON DRAWING - FACTORY INSTALLED LOCK W/RECESSED HASP; NAME NUMBER PLATES
655	2	FILE CABINET	HIRSH INDUSTRIES MODEL #18574	SML	OWN														655	3-DRAWER
656	1	DESK CHAIR	BOSS MODEL #B6456-BK	SML	OWN														656	
660	6	PAPER TOWEL DISPENSER	SAN JAMAR MODEL #T1490TBK	KEC	KEC														660	RE: ARCHITECTURAL SHEETS FOR DETAILS ON MOUNTING HEIGHTS AND LOCATIONS
661	1	MOP RACK	ECOLAB MODEL #89990057	SML	GC														661	PROVIDED BY CLARK
665	1	TRASH CART WITH LID	RUBBERMAID MODEL #1011 & #1028	KEC	KEC														665	
669	1	OFFICE SAFE	TIDEL MODEL TITAN	IT	IT	120	1												669	INSTALL SAFE PER MANUFACTURE'S WRITTEN INSTRUCTIONS
670	1	SAFE	AMERICAN SECURITY PRODUCTS MODEL #9336356	KEC	KEC														670	DIGITAL KEYPAD OUTER DOOR HINGE RIGHT
672	4	DIGITAL MENU BOARD	SAMSUNG MODEL #QM50R	IT	IT	120	1				5-15P								672	PROVIDED BY COATES
680	15	YELLOW MAGNETIC SAFETY POST	THE PARKING ZONE MODEL #GPMP48Y SHIM	KEC	GC														680	ORDER CFA ITEM #3TPZ001 - GC TO INSTALL PER GC INSTALL GUIDE - SEE CIVIL SITE PLAN FOR PLACEMENT
680a	2	EPOXY GUN REFILL	THE PARKING ZONE MODEL #GP	KEC	GC														680a	ORDER CFA ITEM #3TPZ002 - GC TO USE PER GC INSTALL GUIDE - NOT SHOWN ON DRAWINGS
680b	2	ZINC-PLATED BASE PLATE	THE PARKING ZONE MODEL #GPPLATE	KEC	GC														680b	ORDER CFA ITEM #3TPZ008 - GC TO INSTALL PER GC INSTALL GUIDE - SEE CIVIL SITE PLAN FOR PLACEMENT
686	20	YELLOW RUBBER BASE DELINEATOR	FRONT LINE SAFETY MODEL #6290Y	KEC	GC														686	ORDER CFA ITEM #3FLT007 - GC TO INSTALL PER GC INSTALL GUIDE - SEE CIVIL SITE PLAN FOR PLACEMENT
702	8	WALL MOUNT SINGLE RAIL	U-LINE MODEL #H-4681	KEC	KEC														702	SUPPORT FOR CONDIMENT BINS
703L	17	LARGE CONDIMENT BIN	CARLISLE MODEL #104976GY	KEC	KEC														703L	ORDER DOUBLE THE QUANTITY OF BINS ON THE SCHEDULE FOR KANBAN SET
703M	31	MEDIUM CONDIMENT BIN	CARLISLE MODEL #104977GY	KEC	KEC														703M	ORDER DOUBLE THE QUANTITY OF BINS ON THE SCHEDULE FOR KANBAN SET
703S	43	SMALL CONDIMENT BIN	CARLISLE MODEL #104978GY	KEC	KEC														703S	ORDER DOUBLE THE QUANTITY OF BINS ON THE SCHEDULE FOR KANBAN SET
712	11	DUNNAGE RACK (22"x36")	INTERMETRO MODEL #HP2236PDMB	KEC	KEC														712	
714	3	DUNNAGE RACK (22"x48")	INTERMETRO MODEL #HP2248PDMB	KEC	KEC														714	
734D	1	DRYING RACK (24"x48")	INTERMETRO MODEL #CFA48DR	KEC	KEC														734D	METROMAX - KIT INCLUDES (4) MX74P, (2) MX2448G, (2) M4F2448, (2) RPMX48-CBEAM, (2) DR48S, AND (1) XTR2448XE
734Dd	2	STAINLESS STEEL SIDE PANEL	ATLANTA CUSTOM FABRICATORS (24"x68" W/HEMMED EDGE)	KEC	KEC														734Dd	INSTALLED ON #734D WITH HEMMED EDGE FACING AWAY FROM DRYING RACK
1100a	1	STAINLESS STEEL BACK PANEL	ATLANTA CUSTOM FABRICATORS (33"x80" W/HEMMED EDGE)	KEC	KEC														1100a	MOUNTED TO POSTS WITH HARDWARE BY INTERMETRO - HEMMED EDGE FACING AWAY FROM BREADING OR FILLET TABLE
1100c	2	STAINLESS STEEL BACK PANEL	ATLANTA CUSTOM FABRICATORS (45"x80" W/HEMMED EDGE)	KEC	KEC														1100c	MOUNTED TO POSTS WITH HARDWARE BY INTERMETRO - HEMMED EDGE FACING AWAY FROM BREADING OR FILLET TABLE
1104a	1	FLAT PLEXIGLASS PANEL	CUSTOM FABRICATION (41-3/4"x14-3/4"x1/4")	KEC	KEC														1104a	MOUNTED BETWEEN 18X42 & 30X42 SHELVES AT VEGGIE PREP AREA W/CLIPS BY INTERMETRO
1104b	1	FLAT PLEXIGLASS PANEL	CUSTOM FABRICATION (47-3/4"x14-3/4"x1/4")	KEC	KEC														1104b	MOUNTED BETWEEN 18X48 & 30X48 SHELVES AT VEGGIE PREP AREA W/CLIPS BY INTERMETRO
1114	1	CANTILEVERED SHELVING TASK LIGHT BRACKET (48" LONG)	INTERMETRO	KEC	KEC														1114	MOUNTED ON UPPER TIER OF SHELVING UNIT FOR TASK LIGHT
1116	1	CANTILEVERED SHELVING TASK LIGHT BRACKET (60" LONG)	INTERMETRO	KEC	KEC														1116	MOUNTED ON UPPER TIER OF SHELVING UNIT FOR TASK LIGHT
1119	1	CANTILEVERED SHELVING TASK LIGHT BRACKET (90" LONG)	INTERMETRO	KEC	KEC														1119	MOUNTED ON UPPER TIER OF SHELVING UNIT FOR TASK LIGHT
1121G	1	TRAY SLIDES (21" DEEP)	INTERMETRO	KEC	KEC														1121G	METROSEAL GRAY - INSTALLED BETWEEN TOP TWO SHELVES OF SHELVING UNIT IN COOLER
1131C	2	PULL OUT WORK SURFACE (18"x30")	INTERMETRO MODEL #SL-POW2136-30	KEC	KEC														1131C	MOUNTED UNDERNEATH 21X36 CANTILEVERED SHELF
1204	1	CANTILEVERED SHELVING (90° VEGGIE PREP KIT)	INTERMETRO	KEC	KEC														1204	METROSEAL GRAY - WITH 86" UPRIGHTS, 2 TIERS, & SHELF DIVIDERS
1212CC	1	CANTILEVERED SHELVING (2136 CATERING WORKSTATION KIT)	INTERMETRO	KEC	KEC														1212CC	METROSEAL GRAY - WITH 86" UPRIGHTS, 21x36 TOP TIER, 18x36 SECOND TIER, 18" DEEP SHELF DIVIDERS, 21x36 WORK SURFACE, & (2) 21x36 UNDERSHELVES
1216CC	1	CANTILEVERED SHELVING (2160 CATERING WORKSTATION KIT)	INTERMETRO	KEC	KEC														1216CC	METROSEAL GRAY - WITH 86" UPRIGHTS, 21x60 TOP TIER, 18x60 SECOND TIER, 18" DEEP SHELF DIVIDERS, 21x60 WORK SURFACE, & (2) 21x60 UNDERSHELVES
1226	1	CANTILEVERED SHELVING (3060 WORK SURFACE KIT)	INTERMETRO	KEC	KEC														1226	METROSEAL GRAY - WITH 86" UPRIGHTS, 30x60 TOP TIER, 18x60 SECOND TIER, 18" DEEP SHELF DIVIDERS, 30x60 WORK SURFACE, & 30x60 UNDERSHELF
1241A	1	CANTILEVERED SHELVING (30"x30" OVERHEAD ADD)	INTERMETRO	KEC	KEC														1241A	METROSEAL GRAY - WITH 86" UPRIGHT, 30"x30" TOP TIER, 18"x30" SECOND TIER, AND 18" DEEP SHELF DIVIDER
1241F	1	CANTILEVERED SHELVING (30"x30" OVERHEAD KIT - SOLID)	INTERMETRO	KEC	KEC														1241F	METROSEAL GRAY - WITH 86" UPRIGHTS, 30"x30" TOP TIER, 18"x30" SOLID SECOND TIER, AND 18" DEEP SHELF DIVIDER
1243F	1	CANTILEVERED SHELVING (30"x42" OVERHEAD KIT - SOLID)	INTERMETRO	KEC	KEC														1243F	METROSEAL GRAY - WITH 86" UPRIGHTS, 30"x42" TOP TIER, 18"x42" SOLID SECOND TIER, AND 18" DEEP SHELF DIVIDERS
1243FA	1	CANTILEVERED SHELVING (30"x42" OVERHEAD ADD - SOLID)	INTERMETRO	KEC	KEC														1243FA	METROSEAL GRAY - WITH 86" UPRIGHT, 30"x42" TOP TIER, 18"x42" SOLID SECOND TIER, AND 18" DEEP SHELF DIVIDERS
1244	1	CANTILEVERED SHELVING (3048 OVERHEAD KIT)	INTERMETRO	KEC	KEC														1244	METROSEAL GRAY - WITH 86" UPRIGHTS, 30x48 TOP TIER, 18x48 SECOND TIER, & 18" DEEP SHELF DIVIDERS
1244A	1	CANTILEVERED SHELVING (30"x48" OVERHEAD ADD)	INTERMETRO	KEC	KEC														1244A	METROSEAL GRAY - WITH 86" UPRIGHT, 30"x48" TOP TIER, 18"x48" SECOND TIER, AND 18" DEEP SHELF DIVIDERS
1246S	1	CANTILEVERED SHELVING (30"x60" OVERHEAD KIT)	INTERMETRO	KEC	KEC														1246S	METROSEAL GRAY - WITH 86" UPRIGHTS AND 30"x60" TOP TIER
1252	2	CANTILEVERED SHELVING (4T 18"x36" DRY STORAGE KIT)	INTERMETRO	KEC	KEC														1252	METROSEAL GRAY - WITH 76" UPRIGHTS AND (4) 18"x36" WIRE SHELVES
1254A	2	CANTILEVERED SHELVING (4T 18"x48" DRY STORAGE ADD)	INTERMETRO	KEC	KEC														1254A	METROSEAL GRAY - WITH 76" UPRIGHT AND (4) 18"x48" WIRE SHELVES
1261H	1	CANTILEVERED SHELVING (5T 21"x30" DRY STORAGE KIT)	INTERMETRO	KEC	KEC														1261H	METROSEAL GRAY - WITH 86" UPRIGHTS AND (5) 21"x30" WIRE SHELVES
1261HA	1	CANTILEVERED SHELVING (5T 21"x30" DRY STORAGE ADD)	INTERMETRO	KEC	KEC														1261HA	METROSEAL GRAY - WITH 86" UPRIGHT AND (5) 21"X30" WIRE SHELVES
1262	1	CANTILEVERED SHELVING (4T 21"x36" DRY STORAGE KIT)	INTERMETRO	KEC	KEC														1262	METROSEAL GRAY - WITH 76" UPRIGHTS AND (4) 21"x36" WIRE SHELVES
1262A	1	CANTILEVERED SHELVING (4T 21"x36" DRY STORAGE ADD)	INTERMETRO	KEC	KEC														1262A	METROSEAL GRAY - WITH 76" UPRIGHT AND (4) 21"x36" WIRE SHELVES
1262HA	1	CANTILEVERED SHELVING (5T 21"x36" DRY STORAGE ADD)	INTERMETRO	KEC	KEC														1262HA	METROSEAL GRAY - WITH 86" UPRIGHT AND (5) 21"X36" WIRE SHELVES
1263HA	2	CANTILEVERED SHELVING (5T 21"x42" DRY STORAGE ADD)	INTERMETRO	KEC	KEC														1263HA	METROSEAL GRAY - WITH 86" UPRIGHT AND (5) 21"X42" WIRE SHELVES
1264H	2	CANTILEVERED SHELVING (5T 21"x48" DRY STORAGE KIT)	INTERMETRO	KEC	KEC														1264H	METROSEAL GRAY - WITH 86" UPRIGHTS AND (5) 21"x48" WIRE SHELVES
1282WH	1	CANTILEVERED SHELVING (5T 21"x36" WALK-IN KIT WITH FEET)	INTERMETRO	KEC	KEC														1282WH	METROSEAL GRAY - WITH 86" UPRIGHTS, (5) 21"x36" WIRE SHELVES, AND FLANGED FEET
1282WHA	1	CANTILEVERED SHELVING (5T 21"x36" WALK-IN ADD WITH FEET)	INTERMETRO	KEC	KEC														1282WHA	METROSEAL GRAY - WITH 86" UPRIGHT, (5) 21"x36" WIRE SHELVES, AND FLANGED FEET
1300d	4	VERTICAL SHELF DIVIDER (21" HIGH X 24" DEEP)	INTERMETRO MODEL #DD24K4-21H	KEC	KEC														1300d	METROSEAL GRAY- MOUNTED TO SHELF - NOT SHOWN ON PLAN
1320	1	FLOOR SHELF UNIT (74" POST, 18"x24")	INTERMETRO	KEC	KEC														1320	METROSEAL GRAY - 2 SHELVES ABOVE DUNNAGE SHELF & 1 SHELF BELOW DUNNAGE SHELF
1320FJ	2	JUICER WORK TABLE (18x24)	INTERMETRO	KEC	KEC														1320FJ	WITH (2) SOLID SHELVES AND 27-1/2 IN LEGS - ORDER (2) 1824FS AND (4) 27PK4
1321	1	FLOOR SHELF UNIT (74" POST, 18"x30")	INTERMETRO	KEC	KEC														1321	METROSEAL GRAY - 2 SHELVES ABOVE DUNNAGE SHELF & 1 SHELF BELOW DUNNAGE SHELF
1322HW	5	FREEZER FLOOR SHELF UNIT (86" POST, 18"x36")	INTERMETRO	KEC	KEC														1322HW	METROSEAL GRAY - (1) #1836NK4, (4) #DD9807A, (4) #86PK4, AND (4) #9993S
1323HW	1	FREEZER FLOOR SHELF UNIT (86" POST, 18"x42")	INTERMETRO	KEC	KEC														1323HW	METROSEAL GRAY - (1) #1842NK4, (4) #DD9807B, (4) #86PK4, AND (4) #9993S
1324HW	1	FREEZER FLOOR SHELF UNIT (86" POST, 18"x48")	INTERMETRO	KEC	KEC														1324HW	METROSEAL GRAY - (1) #1848NK4, (4) #DD9807C, (4) #86PK4, AND (4) #9993S
1330	1	FLOOR SHELF UNIT (74" POST, 24"x24")	INTERMETRO	KEC	KEC														1330	METROSEAL GRAY - 2 SHELVES ABOVE DUNNAGE SHELF & 1 SHELF BELOW DUNNAGE SHELF
1331	1	FLOOR SHELF UNIT (74" POST, 24"x30")	INTERMETRO	KEC	KEC														1331	METROSEAL GRAY - 2 SHELVES ABOVE DUNNAGE SHELF & 1 SHELF BELOW DUNNAGE SHELF
1331B	1	FLOOR SHELF UNIT (74" POST, 24"x30")	INTERMETRO	KEC	KEC														1331B	METROSEAL GRAY - 3 SHELVES & BOTTOM DUNNAGE SHELF - LOCATED IN REFUSE ENCLOSURE STORAGE ROOM
1332	2	FLOOR SHELF UNIT (74" POST, 24"x36")	INTERMETRO	KEC	KEC														1332	METROSEAL GRAY - 2 SHELVES ABOVE DUNNAGE SHELF & 1 SHELF BELOW DUNNAGE SHELF
1332B	1	FLOOR SHELF UNIT (74" POST, 24"x36")	INTERMETRO	KEC	KEC														1332B	METROSEAL GRAY - 3 SHELVES & BOTTOM DUNNAGE SHELF - LOCATED IN REFUSE ENCLOSURE STORAGE ROOM
1333N	1	FLOOR SHELF UNIT (74" POST, 24"x42")	INTERMETRO	KEC	KEC														1333N	METROSEAL GRAY - (3) 2442NK4; (4) 74PK4;(1) SF54N3K4
1334B	6	FLOOR SHELF UNIT (74" POST, 24"x48")	INTERMETRO	KEC	KEC														1334B	METROSEAL GRAY - 3 SHELVES & BOTTOM DUNNAGE SHELF - LOCATED IN REFUSE ENCLOSURE STORAGE ROOM
1335	1	FLOOR SHELF UNIT (74" POST, 24"x54")	INTERMETRO	KEC	KEC														1335	METROSEAL GRAY - 4 SHELVES
1341U	1	WALL SHELF KIT (UTILITY)	INTERMETRO	KEC	KEC														1341U	METROSEAL GRAY - (1) 24"x48" SHELF + MOUNTING COMPONENTS, (1) 48" GRID + UTILITY ACCESSORIES - SEE INTERIOR ELEVATIONS FOR MOUNTING INFO.
1341V	1	WALL SHELF KIT (VEGGIE PREP)	INTERMETRO	KEC	KEC														1341V	METROSEAL GRAY - (1) 24"x48" SHELF + MOUNTING COMPONENTS, (1) 48" GRID + VEGGIE PREP ACCESSORIES - SEE INTERIOR ELEVATIONS FOR MOUNTING INFO.
1371F	1	SOLID WALL SHELF (18"x30")	INTERMETRO	KEC	KEC														1371F	SOLID - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1372F	1	SOLID WALL SHELF (18"x36")	INTERMETRO	KEC	KEC														1372F	SOLID - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1374	2	WALL SHELF (18"x48")	INTERMETRO	KEC	KEC														1374	METROSEAL GRAY - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1380	1	WALL SHELF (24"x24")	INTERMETRO	KEC	KEC														1380	METROSEAL GRAY - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1380I	1	INVERTED WALL SHELF KIT (24"x24")	INTERMETRO	KEC	KEC														1380I	METROSEAL GRAY - (1) 24"x24" SHELF, (1) 40" TRACK, (2) 12" UPRIGHTS, (2) INVERTED BRACKETS - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1381	7	WALL SHELF (24"x30")	INTERMETRO	KEC	KEC														1381	METROSEAL GRAY - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1381I	4	INVERTED WALL SHELF KIT (24"x30")	INTERMETRO	KEC	KEC														1381I	METROSEAL GRAY - (1) 24"x30" SHELF, (1) 40" TRACK, (2) 12" UPRIGHTS, (2) INVERTED BRACKETS - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1382	3	WALL SHELF (24"x36")	INTERMETRO	KEC	KEC														1382	METROSEAL GRAY - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1382I	2	INVERTED WALL SHELF KIT (24"x36")	INTERMETRO	KEC	KEC														1382I	METROSEAL GRAY - (1) 24"x36" SHELF, (1) 40" TRACK, (2) 12" UPRIGHTS, (2) INVERTED BRACKETS - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1383I	2	INVERTED WALL SHELF KIT (24"x42")	INTERMETRO	KEC	KEC														1383I	METROSEAL GRAY - (1) 24"x42" SHELF, (1) 56" TRACK, (2) 12" UPRIGHTS, (2) INVERTED BRACKETS - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1384	1	WALL SHELF (24"x48")	INTERMETRO	KEC	KEC														1384	METROSEAL GRAY - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1385	1	WALL SHELF (24"x54")	INTERMETRO	KEC	KEC														1385	METROSEAL GRAY - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1385I	1	INVERTED WALL SHELF KIT (24"x54")	INTERMETRO	KEC	KEC														1385I	METROSEAL GRAY - (1) 24"x54" SHELF, (1) 72" TRACK, (2) 12" UPRIGHTS, (2) INVERTED BRACKETS - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION

EQUIPMENT SCHEDULE (FUTURE)

ITEM NO.	QUANTITY	DESCRIPTION OF EQUIPMENT	APPROVED MANUFACTURER	FURNISHED BY	INSTALLED BY	MECHANICAL						PLUMBING							ITEM NO.	REMARKS
						ELECTRICAL														
						VOLT	PH	KW	AMP	HP	PLUG TYPE	HW	CW	TW	FW	FW2	IW	DW		
F180	2	FUTURE ORDER REGISTER	NCR MODEL #P1230	IT	IT	120	1		0.70		5-20P								F180	
F180a	1	FUTURE RADIAL ARM	INNOVATIVE MODEL #7000	IT	IT														F180a	USED TO MOUNT ORDER MONITORS
F181	1	FUTURE CASH DRAWER	APG MODEL #4000	IT	IT														F181	PROVIDED BY CFA IT
F182	1	FUTURE RECEIPT PRINTER	EPSON MODEL #TM-T88IV	IT	IT	24	1		1.80		5-20P								F182	PROVIDED BY CFA IT WITH 120V/24V POWER SUPPLY ADAPTER FOR USE WITH 120V IG OUTLET
F183	1	FUTURE ORDER MONITOR	RADIANT KITCHEN PRODUCTION SYSTEM	IT	IT	120	1		0.125		5-20P								F183	PROVIDED BY CFA IT
F183a	1	FUTURE RADIAL ARM	INNOVATIVE MODEL #7000	IT	IT														F183a	USED TO MOUNT ORDER MONITORS
F440CT	1	FUTURE ICE BATH BREADING TABLE	DUKE MODEL #BSTA-120-US	KEC	KEC	120	1		1.00		L5-15P (BY EC)								F440CT	EC TO CHANGE PLUG TO TWIST LOCK - 10 FT CORD AND PLUG - LEAF INCLUDED WITH TABLE - INSTALL IF SHOWN ON PLANS
F444D	2	FUTURE DOUBLE THAWING CABINET (52 1/8")	TRAULSEN MODEL #RE232N-ZCF02	KEC	KEC	115	1		14.00	0.5	5-20P								F444D	HINGE STANDARD - ORDER WITH 6 1/4" CASTERS - PROVIDED WITH 9' CORD AND PLUG
F503T	1	FUTURE EGG STATION	ANTUNES MODEL #ES-600R 9300657	KEC	KEC	208	1	2.50	12.50		L6-20P								F503T	PROVIDED W/TWIST LOCK PLUG
F505Va	1	FUTURE VECTOR OVEN STAND	ALTO-SHAAM MODEL #5034382-0	KEC	KEC														F505Va	INCLUDES GASKET FOR STACKING VECTOR OVENS
F505VLT	2	FUTURE VECTOR OVEN	ALTO-SHAAM MODEL #VMC-H3H 106226	KEC	KEC	208	3	7.90	22.00		L15-30P (BY EC)								F505VLT	HINGE LEFT - EC TO CHANGE PLUG TO TWIST LOCK
F522	1	FUTURE SINGLE OPEN FRYER	HENNY PENNY MODEL #CFE-410	KEC	KEC	208	3	22.000	62.00		PIN & SLEEVE								F522	PIN & SLEEVE PROVIDED WITH EQUIPMENT AND RECEPTACLE BOX PROVIDED WITH HALTON ITEMS - (1) POWER CONNECTION PER WELL
F523	2	FUTURE PRESSURE FRYER	HENNY PENNY MODEL #PFE-500	KEC	KEC	208	3	13.500	38.00		15-50P								F523	PROVIDED WITH 6 FT CORD AND PLUG

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Foodservice Equipment, Supplies and Design

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HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS CUSTOM
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NO.	DATE	DESCRIPTION
2	08/19/2025	CITY SUBMITTAL/CLIENT REVISIONS

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CONSULTANT PROJECT #
DATE 10/20/2025
DRAWN BY KD

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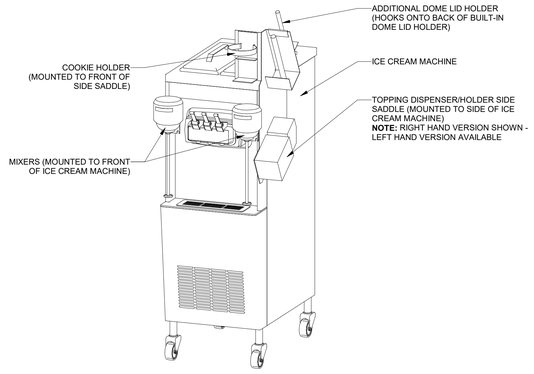
SHEET
EQUIPMENT SCHEDULE

SHEET NUMBER
K-802

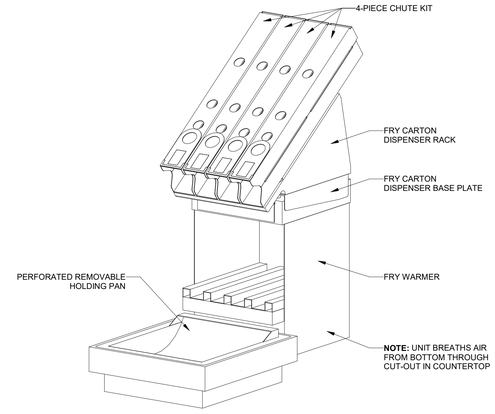
10/24/2025 9:50:39 AM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_EQK.rvt
60-LS-05484-K-802-EQUIPMENT SCHEDULE



1 ICE CREAM MACHINE & ACCESSORIES

SCALE: N.T.S.

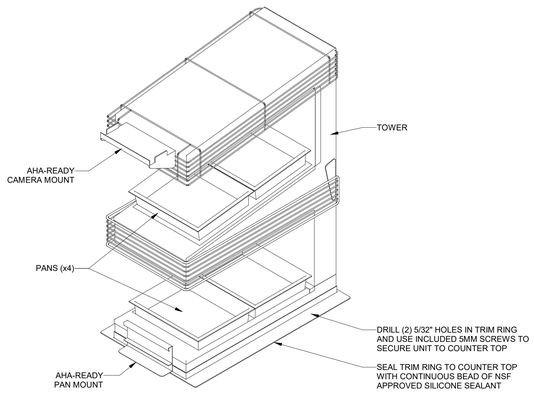
NOTE:
- MACHINE & PAN HOOK TOGETHER TO FORM ONE UNIT
- HOT AIR PASSES FROM BASE OF MACHINE TO INSERT PAN, HEATING THE UNDERSIDE OF THE PERFORATED PAN
- CUT-OUTS REQUIRED FOR INSERT PAN AND BOTTOM BREATHING AREA OF PACKAGE CHUTE



2 FRY PACKAGING & FRY DUMP

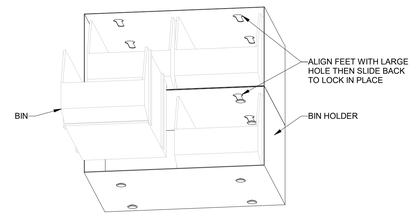
SCALE: N.T.S.

NOTE:
- MARK AND DRILL (2) 5/32" DIA. (3.8mm) HOLES TO FASTEN UNIT TO COUNTERTOP
- INSTALL (2) 5mm SCREWS (PROVIDED) TO SECURE UNIT TO COUNTERTOP
- SEAL TRIM RING TO COUNTERTOP WITH CLEAR NSF APPROVED SILICONE SEALENT (PROVIDED)



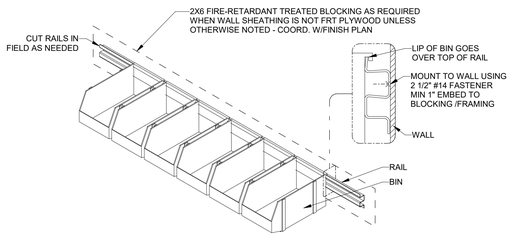
3 HIGH DENSITY HOT HOLD TOWER

SCALE: N.T.S.



4 BIN HOLDER WITH BINS

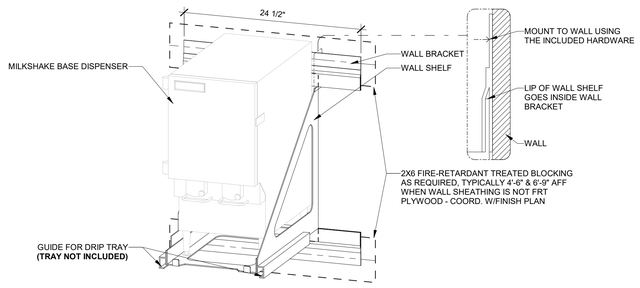
SCALE: N.T.S.



NOTE:
- RAILS MUST BE MOUNTED TO STUDS AND BLOCKING ON EITHER SIDE OF THE PIN & SLEEVE BOX
- ENSURE THAT MOUNTING HARDWARE DOES NOT PENETRATE BACK OF PIN & SLEEVE
- BIN SIZES & QUANTITIES WILL VARY - SEE K-SHEETS FOR SPECIFICS & ADJUST BIN ARRANGEMENT IF NEEDED TO AVOID CONFLICTS

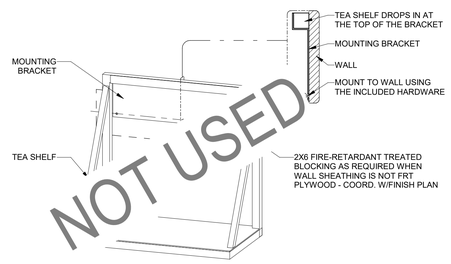
5 RAIL & BINS

SCALE: N.T.S.



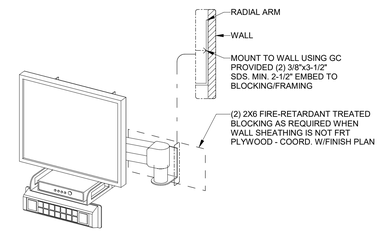
6 MILKSHAKE BASE DISPENSER & SHELF

SCALE: N.T.S.



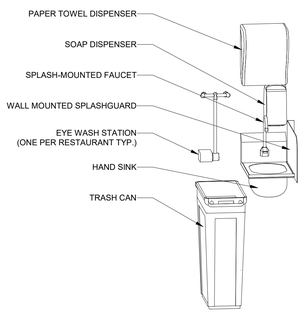
7 TEA SHELF

SCALE: N.T.S.



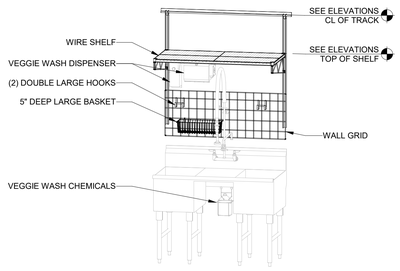
8 MONITOR ARM

SCALE: N.T.S.



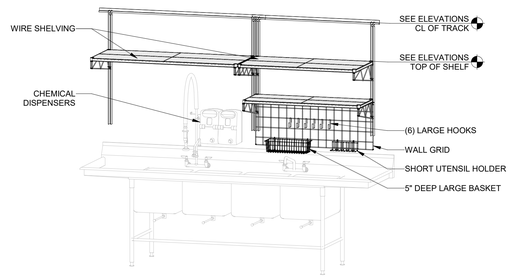
9 HAND SINK & ACCESSORIES

SCALE: N.T.S.



10 2-COMP VEGGIE PREP SINK SHELF & ACCESSORIES

SCALE: N.T.S.



11 4 COMP UTILITY SINK SHELVES & ACCESSORIES

SCALE: N.T.S.

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2770 N WASHINGTON ST
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FSR#05484

BUILDING TYPE / SIZE: BTS LS CUSTOM
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CONSULTANT PROJECT #
DATE 10/20/2025
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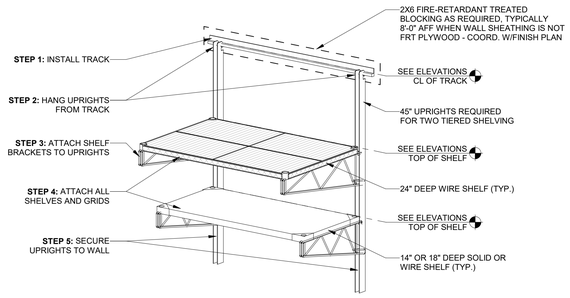
SHEET
KITCHEN DETAILS

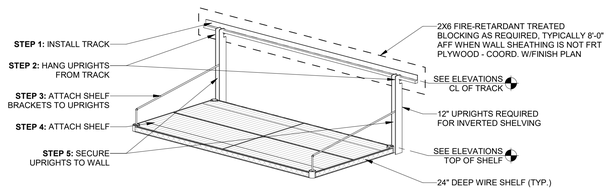
SHEET NUMBER
K-901

10/24/2025 9:50:40 AM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_EQK.rvt
60-LS-05484-K-901-KITCHEN DETAILS



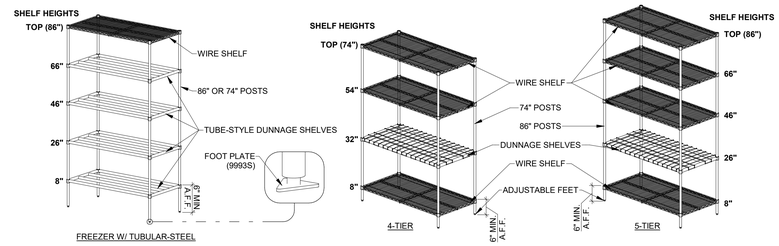
1 SHELVING INSTALL DETAIL: WALL MTD.

SCALE: N.T.S.



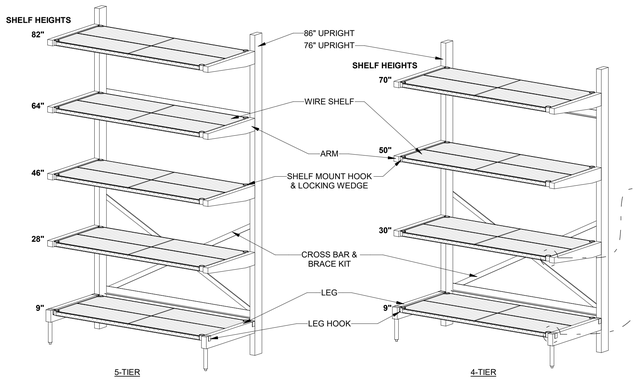
2 SHELVING INSTALL DETAIL: WALL MTD. - INVERTED

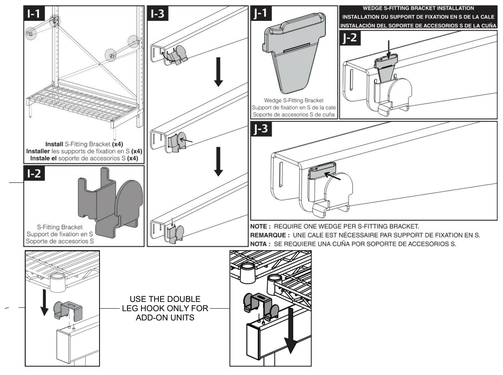
SCALE: N.T.S.



3 SHELVING DETAIL: FLOOR SHELVES

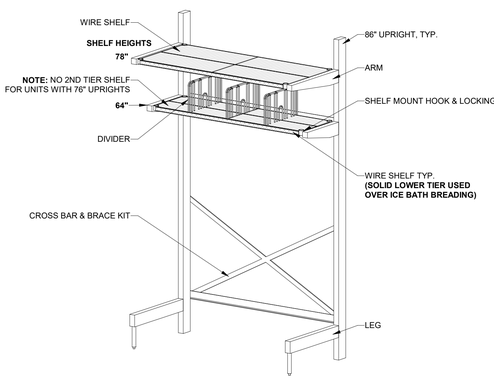
SCALE: N.T.S.





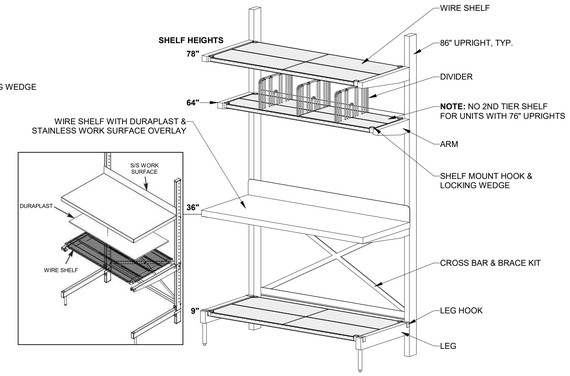
4 CANTILEVER - DRY STORAGE

SCALE: N.T.S.



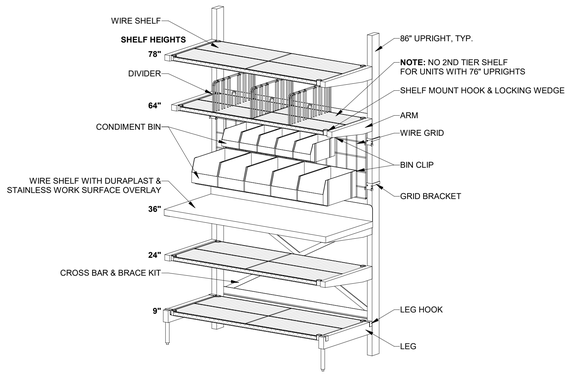
5 CANTILEVER SHELVING - OVERHEAD

SCALE: N.T.S.



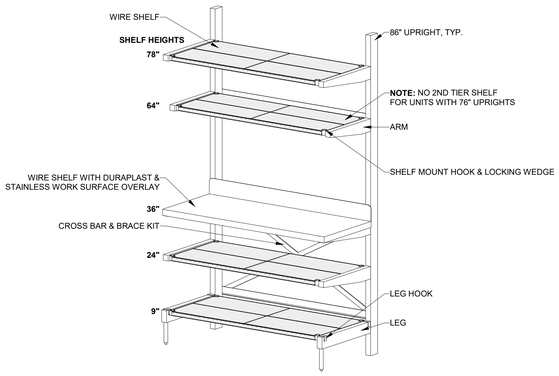
6 CANTILEVER SHELVING - WORK SURFACE

SCALE: N.T.S.



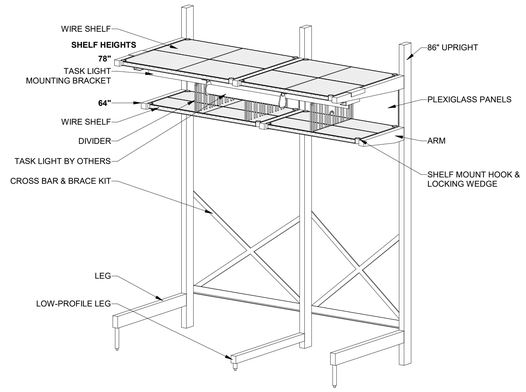
7 CANTILEVER SHELVING - CATERING WORKSTATION

SCALE: N.T.S.



8 CANTILEVER SHELVING - DELIVERY WORKSTATION

SCALE: N.T.S.



9 CANTILEVER SHELVING - VEGGIE PREP

SCALE: N.T.S.

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FSR#05484

BUILDING TYPE / SIZE: BTS LS CUSTOM
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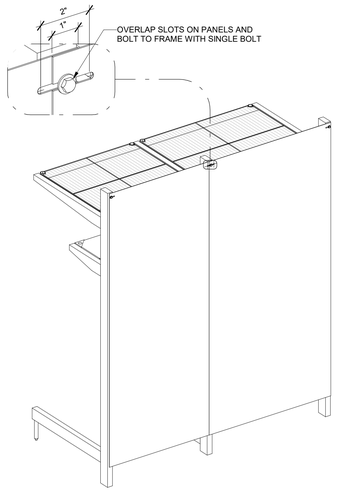
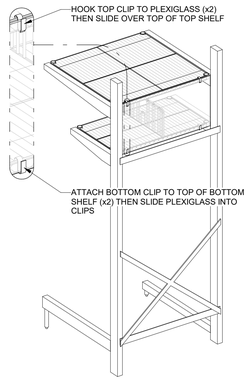
SHEET
KITCHEN DETAILS

SHEET NUMBER
K-902

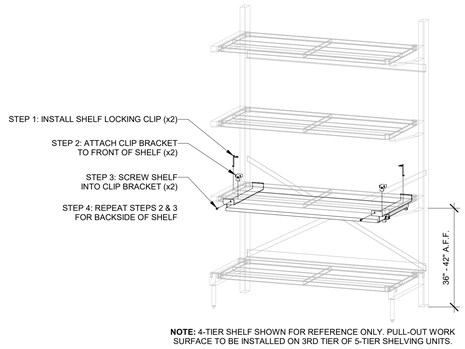
10/24/2025 9:50:41 AM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR05484_Custer & Washington FSU_EQK.rvt
60-LS-05484-K-902-KITCHEN DETAILS



1 STAINLESS STEEL PANELS
SCALE: N.T.S.

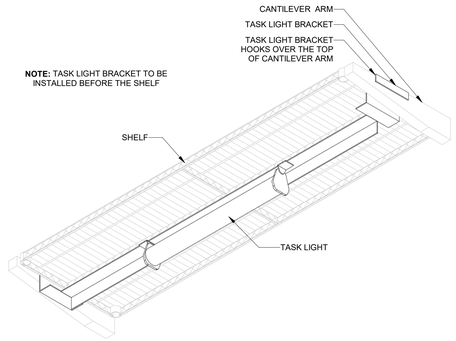


2 PLEXIGLASS PANELS
SCALE: N.T.S.

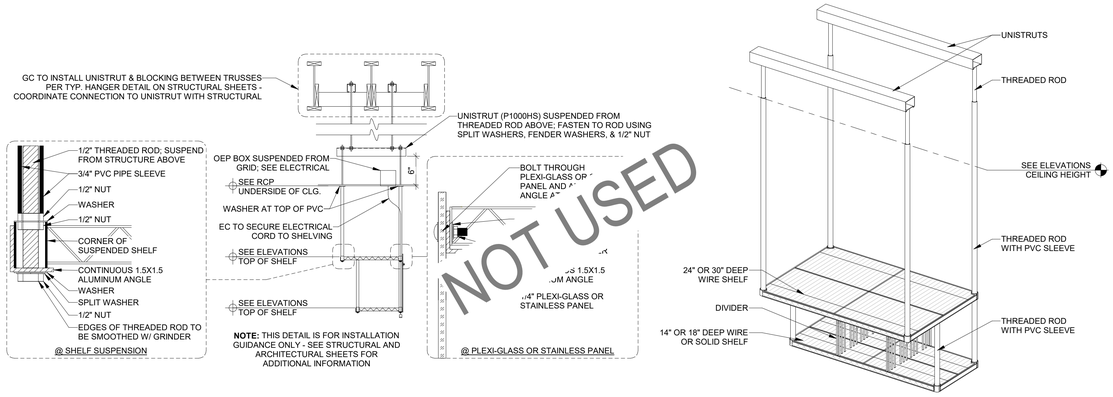


NOTE: 4-TIER SHELF SHOWN FOR REFERENCE ONLY. PULL-OUT WORK SURFACE TO BE INSTALLED ON 3RD TIER OF 5-TIER SHELVING UNITS.

3 PULL-OUT SHELF
SCALE: N.T.S.



4 TASK LIGHT
SCALE: N.T.S.



5 SUSPENDED SHELVING
SCALE: N.T.S.

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60-LS-0548d-K-903-KITCHEN DETAILS

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SHEET
KITCHEN DETAILS

SHEET NUMBER
K-903

Q42426-25

These drawings represent our understanding of the requirements of your order. We submit them to you for the purpose of securing complete approval of sizes, finishes, framing, insulation, dimensions, specifications, and interpretations. The return of these drawings to us with instructions to proceed, or subsequent instructions to that effect, shall constitute complete approval.

Approved by _____ Date _____

WARNING

DO NOT EXPOSE CARTONED OR STACKED PANELS TO MOISTURE OR HIGH HUMIDITY CONDITIONS DURING STORAGE. STAINING OR OXIDIZING OF METAL SKINS MAY OCCUR.

NOTICE

THIS ORDER CANNOT BE PLACED INTO PRODUCTION UNTIL WE RECEIVE FINAL APPROVED DRAWING AND SPECIFICATIONS. THE DATE OF RECEIPT CAN AFFECT YOUR PROMISED DELIVERY DATE.

THIS THERMO-KOOL WALK-IN WILL BE MANUFACTURED TO UL & NSF REQUIREMENTS. THERMO-KOOL ACCEPTS NO LIABILITY FOR LOCAL CODE REQUIREMENTS OF WHICH THERMO-KOOL HAS NOT BEEN MADE AWARE IN WRITING PRIOR TO FABRICATION.

Thermo-Kool®
WALK-IN PANEL
Thermo-Kool/Mid-South Industries, Inc.
R-14761

BUILDING UNITS
1F68

USA
SURFACE BURNING CHARACTERISTICS

MATERIAL DETAILS	FLAME SPREAD	SMOKE DEVELOPED
ALUMINUM PANELS, PAINTED OR UNPAINTED, 5" OR LESS	15	300-400
GALVANIZED OR STAINLESS STEEL PANELS, PAINTED OR UNPAINTED, 5" OR LESS	20	450-OVER 500
CORE MATERIAL, 6" THICK	20	250

CANADA
SURFACE BURNING CHARACTERISTICS / CARACTERISTIQUES DE COMBUSTION SUPERFICIELLE IN ACCORDANCE WITH THE STANDARD / SELON LA NORME CAN/ULC-S102

MATERIAL DETAILS / DETAILS DU MATERIAL	FLAME SPREAD / INDICE DE PROPAGATION DE LA FLAMME	SMOKE DEVELOPED / INDICE DE DEGAGEMENT DES FUMEES
ALUMINUM PANELS, PAINTED OR UNPAINTED, 127 MM (5 IN.) THICK OR LESS, PANNEAUX EN ALUMINUM, PEINTS OU NON PEINTS, 127 MM (5 PO) D'EPAISSEUR OU MOINS	10	105
GALVANIZED OR STAINLESS STEEL PANELS, PAINTED OR UNPAINTED, 127 MM (5 IN.) THICK OR LESS, PANNEAUX EN ACIER GALVANISE OU EN ACIER INOXYDABLE, PEINTS OU NON (5 PO) D'EPAISSEUR OU MOINS	5	175
CORE MATERIAL, 150 MM (6 IN.) MATERIAU DE BASE, 150 MM (6 PO)	295	100

PULL DOWN RATE TO 45° F IS UNRESTRICTED. AFTER 45 ° F, PULL DOWN RATE SHOULD BE RESTRICTED TO 10° F PER/ 24 HOUR PERIOD.

NOT APPLICABLE TO BLAST CHILLER CABINETS.

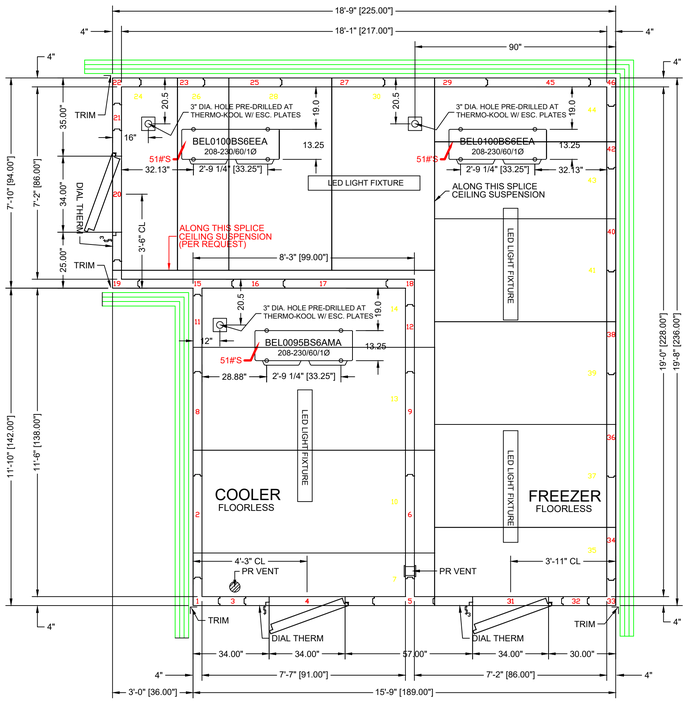
"THERMO-KOOL WALK-IN COOLERS AND FREEZERS COMPLY WITH 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), SECTION C403.11

REVISED

HANGER BRACKET DETAIL SHOWN WITH CEILING SUSPENSION (SEE DETAIL)

VERIFY !!!

* VERIFY HEIGHT AFF FOR TRIM & ENCLOSURES



TRIMARK STRATEGIC

NOTE: OVERALL WALK-IN DIMENSIONS ARE: 18'-9" X 19'-8" X 9'-6"

NOTE: THERMO-KOOL RECOMMENDS A 1" MIN. CLEARANCE BETWEEN WALK-IN & BUILDING WALLS

DOOR CLEARANCE:

MININMUM CLEARANCE REQUIRED FOR 34" X 78" DOOR IS 48" X 87"

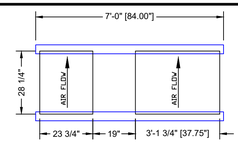
NOTE!!!
(REQUIRED CLEARANCE @ DOORS)

* INT. SIDE OF DOOR: 6" MIN. CLEARANCE REQ'D ON LATCH SIDE OF DOOR. SHELVING CAN FLUSH W/ OPENING ON HINGE SIDE.
* EXT. SIDE OF DOOR: 7" MIN. CLEARANCE REQ'D ON BOTH SIDES OF DOOR.

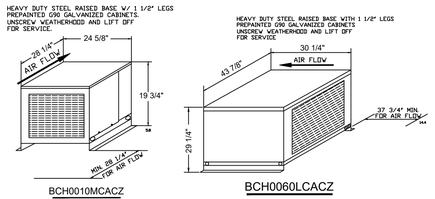
DESIGN CRITERIA
BASIC DESIGN LOADS:
CEILING DL = 5 PSF
CEILING LL = 10 PSF
MINIMUM INDOOR LATERAL LOAD = 5 PSF

SEISMIC DESIGN DATA:
S_s = 0.485 g
S_1 = 0.153 g
S_{DS} = 0.456 g
SDC = D
SITE CLASS = D-DEFAULT
RISK CATEGORY = II
IMPORTANCE FACTOR, I = 1.0
RESPONSE MODIFICATION FACTOR, R = 2.0 (SHEAR WALL)

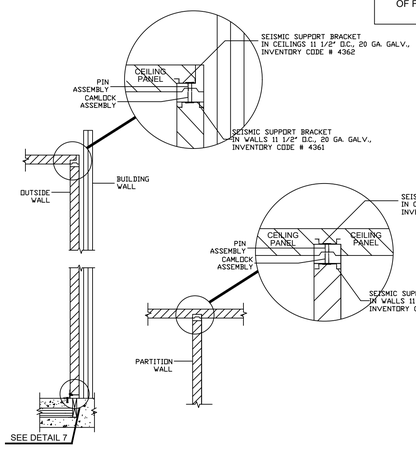
*ANY FUTURE ROOF/CEILING LID MOUNTED EQUIPMENT NOT CURRENTLY SHOWN ON THE APPROVED SHOP DRAWINGS SHALL BE COORDINATED WITH THE EOR PRIOR TO ANY INSTALLATION, TYP.



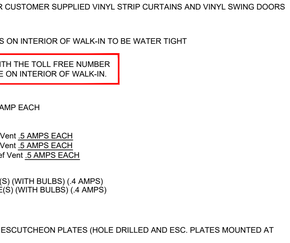
CONDENSING UNIT LAYOUT (BY OTHERS)



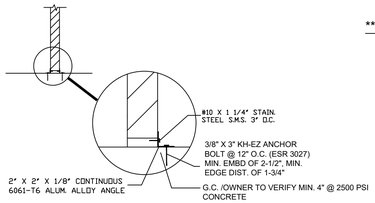
1. ALL COPPER LINES
2. UNIONS AT EVAPORATORS FOR SERVICE.
3. FREEZER P-TRAP SHALL BE IN COOLER
4. COOLER DRAIN SHALL BE PIPED IN DOWN STREAM OF FREEZER P-TRAP
5. CONDENSATE LINES SHALL RUN TO BACK WALL, NOT TO COMMON WALL.
6. SEE INSTALLATION AND START-UP CHECK LIST FOR DETAILS
7. PROVIDE PICTURES OF THE INSTALLATION ALONG WITH THE CHECK LIST AND INVOICE FOR PAYMENT.



SEISMIC SUPPORT BRACKET DETAIL



SECTION @ COIL

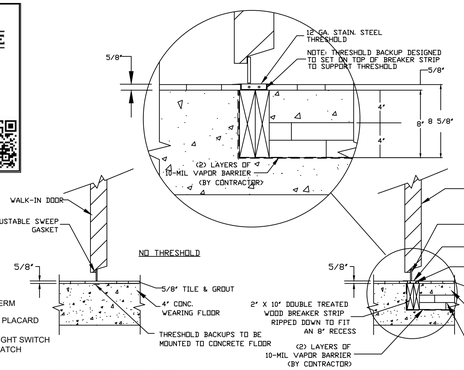


7 DETAIL
TYP. ANCHORAGE FOR: PARTITION WALL & OUTSIDE WALL

NOTE: CONTINUOUS ANGLE REQ'D ON ONE SIDE OF WALL PANELS

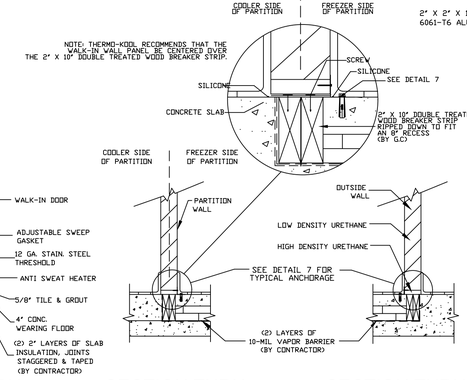
SEE PAGE 2 FOR CEILING SUSPENSION DETAIL USING HANGER PLATES

ADDITIONAL DETAILS ON PAGE 2



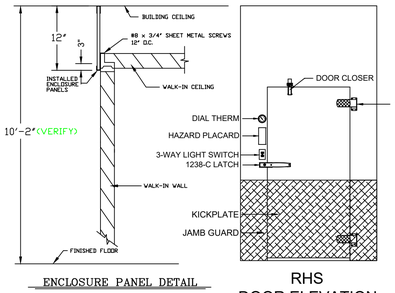
SECTION THRU COOLER DOOR

SECTION THRU FREEZER DOOR



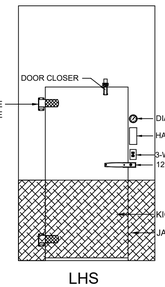
SECTION THRU PARTITION WALL

SECTION THRU OUTSIDE FREEZER WALL



ENCLOSURE PANEL DETAIL

RHS DOOR ELEVATION
DOOR SECTION 1.5 AMPS



LHS DOOR ELEVATION
DOOR SECTION 1.5 AMPS

FOR REFERENCE ONLY
PLEASE REFER TO ARCHITECTURAL & STRUCTURAL DRAWINGS FOR SLAB DETAILS

STAMP

TAMARACK GROVE ENGINEERING
851 N. Hickory Ave.
Suite 200
Meridian, ID 83642
(208) 345-8941
www.tamarackgrove.com
Firm No. E074815
Project No. 25-25576

OVERALL DIMENSIONS WIDTH 18'-9" DEPTH 19'-8" HEIGHT 9'-6"

46

FINISH-Exterior
- ☐ 26 Ga. Stucco Embossed Galv. Steel
- ◉ .040 Stucco Aluminum
- ☐ 20 Ga. Type 304 #3 Finish Stainless Steel
- ☐ White Stucco Aluminum
- ☐ White Smooth Aluminum
- ☐ White Stucco Galv.
- ☐ White Smooth Galv.

Interior (walls and ceiling)
- ☐ 26 Ga. Stucco Embossed Galv. Steel
- ◉ .040 Stucco Aluminum
- ☐ 20 Ga. Type 304 #3 Finish Stainless Steel
- ☐ White Stucco Aluminum
- ☐ White Smooth Aluminum
- ☐ White Stucco Galv.
- ☐ White Smooth Galv.

FINISH-Interior Floor
- ◉ Built-in by others. (Breaker strip must be under all wall panels including partitions)
- ☐ 4" x 2" Vinyl U-Channel Screeds ◉ Wall Anchors ☐ 4 1/4" Foam Screeds
- ☐ 14 Ga. Bright Galvanized Steel
- ☐ 16 Ga. Stainless Steel. SEE DETAIL BELOW
- ☐ Smooth Aluminum
- ☐ 1/8" SMOOTH Aluminum Foamed-In-Place

THERMO-KOOL WALK-IN FLOOR PANELS WITH DURA-FLOOR SUPPORT ARE DESIGNED TO WITHSTAND UNIFORMLY DISTRIBUTED STATIONARY LOADS OF 12,000 LBS. PER SQUARE FOOT. THERMO-KOOL'S WARRANTY DOES NOT COVER DAMAGE DUE TO PALLET JACKS, MOBILE CARTS, MOBILE SHELVING, FORK LIFTS, OR ANY OTHER FORM OF ROLLING TRAFFIC. A CONC. WEARING FLOOR MUST BE INSTALLED ON TOP OF THE WALK-IN FLOOR PANELS FOR THIS APPLICATION.

SECTION FASTENERS-Thermo-Kool cam type Insta-Lok
INSULATION-4" thickness "Foamed-in-place" urethane-DURATHANE CONSTRUCTION CLASS I

☐ OUTDOOR INSTALLATION
- ☐ Vinyl weather roof W/ Facia Bar & Cover
- ☐ Sloped Foam ☐ _____SQ. FT. OF 4-MIL POLYETHYLENE (BETWEEN SLOPED FOAM & VINYL WEATHERCAP)

◉ INDOOR INSTALLATION
ELECTRICAL-All wiring contained within the door sections is 115/60/1Ø. Connections to this and all other lights and refrigeration supplied by others.
ENTRANCE DOOR-Flush inlitting type with poly vinyl magnetic gasket and vinyl sweep gasket on bottom edge. Heater cables are built in around door opening to prevent frost accumulation and sweating. Ext. has a thermometer, indicating light and toggle switch. Interior has vapor proof light. Hinges are cam action type.
* Door finishes will be the same as adjacent panels unless specified otherwise under Door Accessories.

DOOR SIZE & QTY	HARDWARE	SWING
◉ (3) 34" x 78"	◉ 1238-C LATCH, (2) 1346 PERFORMER ADJUSTABLE HINGES, DOOR CLOSER	◉ RH ◉ LH

◉ DOOR ACCESSORIES
- ☐ ( ) 14" x 14" Peep Window(s) W/ HEATED FRAME & GLASS
- ☐ ( ) 14" x 24" Peep Window(s)W/ HEATED FRAME & GLASS

1/8" ALUMINUM TREADPLATE INT/EXT KICKPLATES & JAMBGUARDS 36" HIGH
STAINLESS STEEL TO INTERIOR & EXTERIOR OF DOOR & FRAME
(1) COOLER I. D. PLATE TO READ "COOLER" (SHIPPED LOOSE)
(2) COOLER I. D. PLATE TO READ "FREEZER" (SHIPPED LOOSE)
NO THRESHOLD AT COOLER DOOR
12 Ga. STAINLESS STEEL SPECIAL THRESHOLD AT FREEZER DOOR
BACKUPS IN BOTH DOOR FRAMES FOR CUSTOMER SUPPLIED VINYL STRIP CURTAINS AND VINYL SWING DOORS
NO VP LIGHTS AT DOORS
2- 3-WAY LIGHT SWITCHES
ALL FIELD SERVICE BOXES & SWITCHES ON INTERIOR OF WALK-IN TO BE WATER TIGHT

THERMO-KOOL'S SERVICE STICKER WITH THE TOLL FREE NUMBER TO BE APPLIED NEXT TO SERIAL PLATE ON INTERIOR OF WALK-IN.

◉ MISCELLANEOUS EQUIPMENT
- ☐ ( ) Lights (NOT MOUNTED) 1 AMP EACH
- ☐ Interior Floor Ramp
- ☐ Exterior Floor Ramp
- ☐ # 1825 Heated Pressure Relief Vent .5 AMPS EACH
- 1- ◉ # 1830 Heated Pressure Relief Vent .5 AMPS EACH
- ☐ # 1832-4 Heated Pressure Relief Vent .5 AMPS EACH
- ◉ Trim & Enclosures (see detail)

1- 4 FT. L.E.D. COOLER LIGHT FIXTURE(S) (WITH BULBS) (.4 AMPS)
3- 4 FT. L.E.D. FREEZER LIGHT FIXTURE(S) (WITH BULBS) (.4 AMPS)
SEISMIC PACKAGE (SEE DETAILS)
WALL ANCHORS
ESCUTCHEON PLATES (SEE DETAILS)
3" DIA. HOLE IN CEILING PANELS WITH ESCUTCHEON PLATES (HOLE DRILLED AND ESC. PLATES MOUNTED AT THERMO-KOOL, SEE PLAN)
1- OFFSET
CEILING SPLICE
CEILING SUSPENSION (SEE DETAIL) (SEE PLAN)
2" X 2" X 1/4" ALUMINUM ANGLE FOR EVAP COIL (SEE DETAIL)
(12) 3/8" X 6" NYLON BOLT W/ NUT & FLAT WASHER
ALL FIELD SERVICE BOXES & SWITCHES ON INTERIOR OF WALK-IN TO BE WATER TIGHT

CUSTOM REFRIGERATION - NOT CHICK-FIL-A STANDARD

REFRIGERATION- ◉ Aircooled ☐ Watercooled ☐ By Others

1 HP MED TEMP BCH0010MCACZ 208-230/60/3Ø W/ BEL0095BS6AMAY0200 208-230/60/1Ø
CONDENSING UNIT AMPS: MCA 15 MOPD 15 (COMPRESSOR AMPS: 7.2)
COIL AMPS: 1.0 MCA (1.1) MOPD (15)
R-448A REFRIGERANT, SCROLL
BTU CAPACITY @ 35°F ROOM TEMP @ 95°F AMBIENT= 10,050
LIQUID LINE SIZE = 3/8"
SUCTION LINE SIZE = 5/8"
BASE SIZE = 24 5/8" X 28 1/4" X 19 3/4"H
RECEIVER CAPACITY AT 90% FULL: 9 #
CONDENSING UNIT WEIGHT: 179#
HEAT OF REJECTION - 13,065 BTUS

6 HP LOW TEMP BCH0060LCACZ 208-230/60/3Ø W/ (2) BEL0100BS6EEA 208-230/60/1Ø
CONDENSING UNIT AMPS: MCA 30.3 MOPD 50 (COMPRESSOR AMPS: 21.5)
COIL FAN AMPS: 2.0 EACH MCA (1.1) MOPD (15)
COIL HEATER AMPS: 18.3 EACH
R-448A REFRIGERANT, SCROLL
BTU CAPACITY @ -10°F ROOM TEMP @ 90°F AMBIENT = 20,110
LIQUID LINE SIZE = 1/2"
SUCTION LINE SIZE = 7/8"
BASE SIZE = 30 1/4" X 43 7/8" X 29 1/4"H
RECEIVER CAPACITY AT 90% FULL: 20.0#
CONDENSING UNIT WEIGHT: 327#
HEAT OF REJECTION: 31,171 BTUS

- BOTH SYSTEMS W/ LOW AMBIENT KIT WITH HEATED AND INSULATED RECIEVER, LOW PRESSURE BYPASS RELAY
BOTH SYSTEMS W/ HEATCRAFT INTELLIGEN CONTROLLER W/ EVAPORATOR CIRCUIT BREAKER
2 FT. ELECTRICAL WIRING HARNESS WILL BE PROVIDED AND PRE-WIRED TO EACH EVAPORATOR BY THERMO-KOOL
BOTH W/ 40 FT PRE-CHARGED LINE KITS
12 FT. DRAIN LINE HEATER FOR THE LOW TEMP. UNIT (115/60/1Ø)
1" THICK LINE KIT INSULATION
COMPLETE COOLER/FREEZER DRAIN LINE KIT TO BE PROVIDED BY THERMO-KOOL

◉ Condensing unit outdoor
◉ Remote Quick Connect

CONTROL KIT-The following controls indicated with a mark are included.
- ◉ Expansion valve
- ◉ Dryer
- ◉ Sight glass
- ◉ Pressure control
- ◉ Winter control
- ◉ Crankcase heater
- ◉ Condensing unit cover
- ◉ Coil Mounting Kit

NOTES: Aircooled condensing units should be placed in a well ventilated area with a minimum of 1000 CFM's per/H.P.
Evaporator drain connections by others.
NOTE: THERMO-KOOL recommends a 1" min. clearance between walk-in & building walls.

BLUECAD

DATE	REV. BY	REVISIONS DESCRIPTION
3-4-24	CF	ADD REDLINES
11-26-24	CF	CHNGE WALK-IN SIZE TO 19'-9" X 19'-11"; CHNGE LOW TEMP REF.; RE-SEND FOR ENG. STAMPS
1-13 & 1-16-25	CF	ADD REDLINES
8-27-25	CF	TOTAL RE-DRAW, CHNGE OVERALL SIZE, COMPARTMENT, & DOOR LOCATION; MOVE BUILDING WALLS; CHNGE SWINGS; DELETE CORNER GUARD;
9-3-25	CF	ADD REDLINES 11-19-25 CF UPDATE ADDRESS

NOTE: THIS DRAWING, AND ALL DRAWINGS OR SPECIFICATIONS SUBMITTED BY THERMO-KOOL, AND REPRODUCTIONS THEREOF IN WHOLE OR IN PART SHALL REMAIN THE LEGAL PROPERTY OF MID-SOUTH INDUSTRIES, INC., SUBJECT TO RECALL AT ANY TIME AND SHALL NOT BE USED FOR INSTALLATIONS OR PRODDUCTION BY OTHERS EXCEPT BY OUR SPECIAL PERMISSION IN WRITING.

Walk-in panels manufactured under Patent # 5,424,118.

Thermo-Kool®
Mid-South Industries, Inc. ●P.O. Box 989
Laurel Mississippi 39441 ●Phone 601/649-4600
FAX 601/649-0558

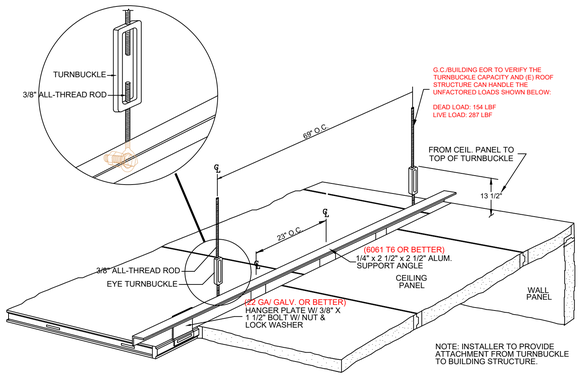
SUBJECT
WALK-IN REFRIGERATION

FOR
5484 CUSTER AND WASHINGTON

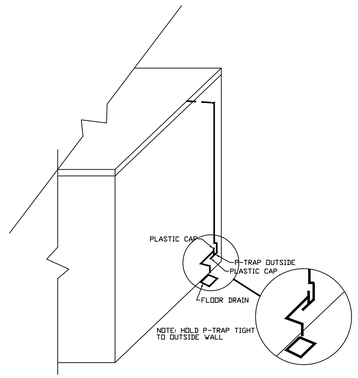
2770 N WASHINGTON ST.
HELENA, MT 59602

DR. BY	CH. BY	DWG. NO.
CF		Q42426-25
DATE	SCALE	SHEET NO.
1-22-24	3/8"=1'-0"	1 OF 2

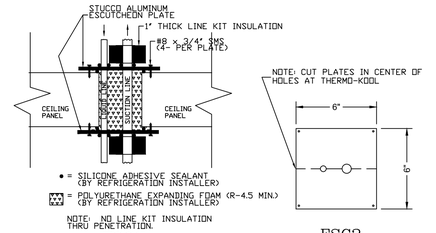
PERMIT COPY
THIS SET OF APPROVED PLANS TO BE ON JOB SITE AT ALL TIMES



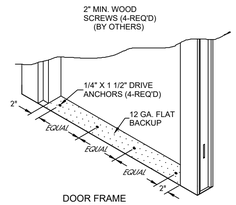
EXTERIOR ANGLE CEILING SUSPENSION



DRAIN LINE DETAIL



REFRIG. LINE ESCUTCHEON PLATE DETAIL



DOOR FRAME ANCHORMENT

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Walk-in panels manufactured under Patent # 5,424,116

Thermo-Kool®

Mid-South Industries, Inc. ●P.O. Box 989
Laurel Mississippi 39441 ●Phone 601/649-4600
FAX 601/649-0558

SUBJECT: WALK-IN REFRIGERATION		
FOR: 5484 CUSTER AND WASHINGTON		
2770 N WASHINGTON ST. HELENA, MT 59602		
DR. BY: CF	CH. BY:	DWG. NO.: Q42426-25
DATE: 1-22-24	SCALE: 3/8"=1'-0"	SHEET NO.: 2 OF 2

PERMIT COPY
THIS SET OF APPROVED PLANS TO BE ON JOB SITE AT ALL TIMES

FLOOR PLAN KEY	ELEVATION TAG	DECOR TAG
	---	1

WALL/ QUEUE KEY	STEEL LOW WALL, BY FCC 4.5" BASE PLATE	STEEL FULL HEIGHT WALL, BY FCC 2.5" DEPTH	STREAMLINE, QUEUE, BY FCC 2.5" RAIL DEPTH	STREAMLINE, QUEUE, BY FCC 2.5" RAIL + PLATES	REFER TO ARCHITECTURAL PLAN FOR INTERIOR GC BUILT PARTITION TYPES/ DETAILS.
	BOLT DOWN	*BOLT DOWN*	*CORED*	*BOLT DOWN*	WALL KEY REFERS TO FCC MANUF. PRODUCT ONLY.

SEATING & TABLE SCHEDULE_BTS

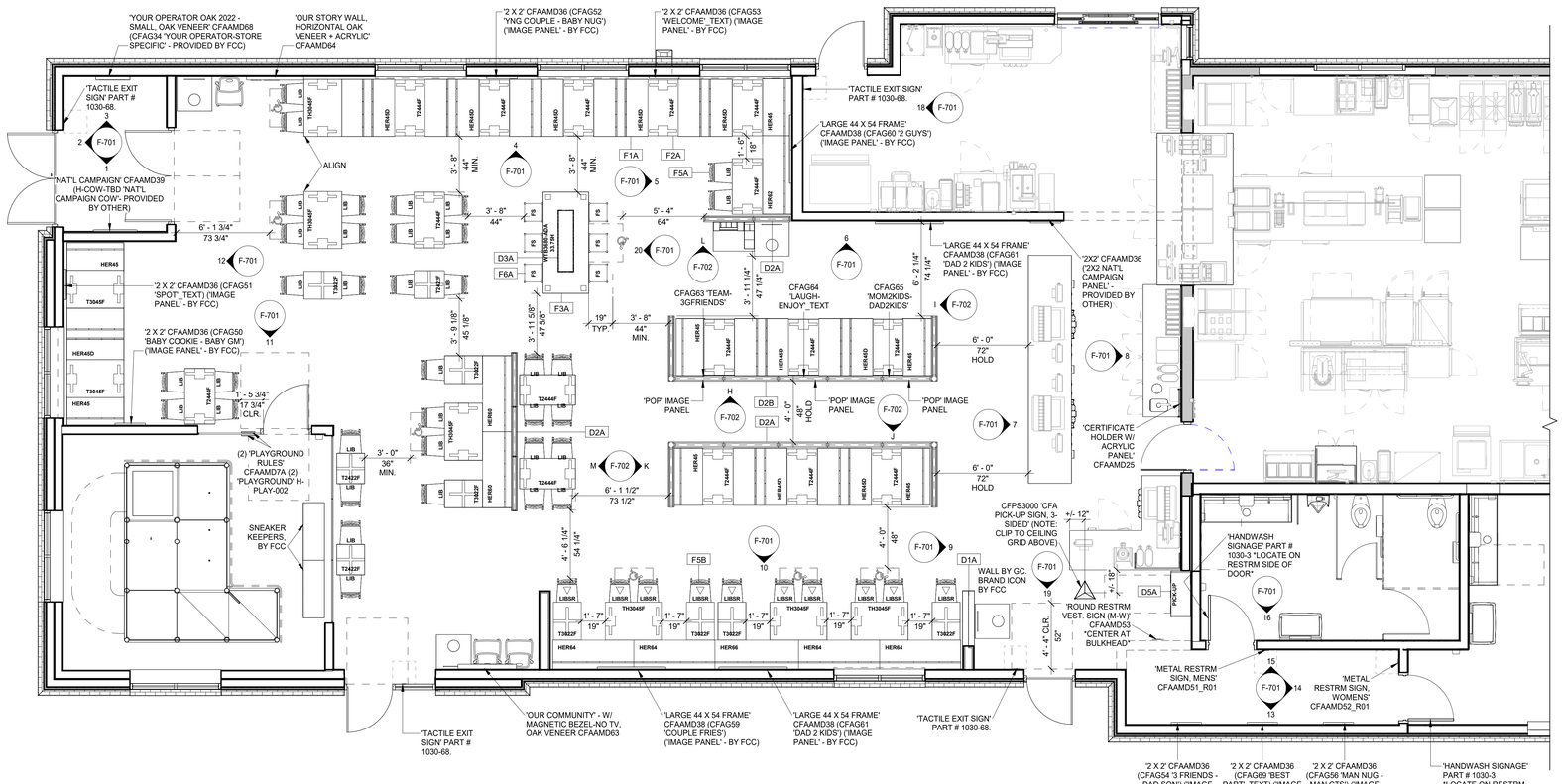
TABLE TOP STYLE	TABLE TOP QUANTITY	SEAT QUANTITY
2-TOP	10	20
4-TOP	24	96
6-TOP	1	6
	35	122

SEATING RATIOS

SEATING TO TABLE RATIO: 122/ 35 = 3.9
ACCESSIBLE TABLE RATIO: 5
NUMBER OF PARTIES: 21

STEEL KEY	CORE-DRILLED SYMBOLS	GENERIC CORE	12"x12" PLATE CORE	12"x12" PLATE (OFFSET)	1x3 STEEL	1x3 STEEL (OFFSET)	BOLT DOWN SYMBOLS	GENERIC BOLT DOWN	12"x12" PLATE	12"x12" PLATE (OFFSET)	1x3 STEEL	1x3 STEEL (OFFSET)	FREESTANDING SYMBOLS	X-BASE	BI-POD

NOTE: THIS KEY REPRESENTS GENERAL STEEL SYMBOLS. REFERENCE PROJECT FOR PRODUCT SPECIFICATIONS/ STEEL TYPES.

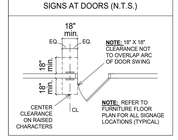


A1 FURNITURE FLOOR PLAN_BTS

1/4" = 1'-0"

TACTILE SIGNAGE

TYP. LOCATION / CLEARANCE OF TACTILE SIGNS AT DOORS (N.T.S.)



Chick-fil-A			
STORE #: 05484	BLDG SHELL:	BTS LS XPS	
LOCATION: WASHINGTON STREET HELENA, MT			
NICKNAME: CUSTER & WASHINGTON			
DESIGN: LC	FDD SET: ---	CHECKED: ALM	
PROJECT MGR: CHELSEA CROSS			
SALES MGR: MICHELLE GANSKO			
SET ISSUED DATE: 10/20/25			
DRAWING TITLE: FURNITURE FLOOR PLAN			

Project Contacts

PLEASE CONTACT ONE OF THE FOLLOWING FCC TEAM MEMBERS TO ADDRESS CONCERNS YOU MAY HAVE:

FCC COMMERCIAL FURNITURE INC.
8452 Old Hwy 99 N | Roseburg, OR 97470
Phone: 800.322.7328 | Fax: 541.673.7441

Regional Sales Manager: Michelle Gansko
Phone: 541.464.5235
Email: michelle.gansko@fccfurn.com

Project Management Team:

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Violet Disko	Phone: 800.322.7328 x610
Adam Alexander	Phone: 800.322.7328 x228
Aaron McCraw	Phone: 800.322.7328 x203

Customer Service Inquiries:
Phone: 800.322.7328

FCC Project Log

DATE	#	DESCRIPTION	INITIALS
01.24.24		DRAWING SET ISSUED	ALM
02.27.24	1	ISSUED FOR PERMIT	ALM
07.03.24	2	ISSUED FOR PLAN CHECK	ALM
07.10.24	3	ISSUED FOR BID	ALM
08.22.25	4	PLAN CHECK - REV 2	ALM
10.20.25	5	PLAN CHECK - REV 4	ALM
00.00.00	6	---	---
00.00.00	7	---	---

FURNITURE SHEET INDEX

Sheet Number	Sheet Name
F-201	FURNITURE FLOOR PLAN
F-202	TABLE NUMBER PLACEMENT PLAN
F-211	FURNITURE CORE DRILL PLAN
F-701	DECOR ELEVATIONS
F-702	FURNITURE PRODUCT DETAILS

BUILDING SHELL USED FOR FURNITURE PLANS PROVIDED BY SITE ADAPT ARCHITECT.
VERIFY DINING ROOM DIMENSIONS FOR FURNITURE & MESSAGING.

SEATING LAYOUT PROVIDED BY ARCHITECT. ARCHITECT IS RESPONSIBLE FOR SEATING PLAN MEETING CODE REQUIREMENTS (LOCAL OR OTHER)

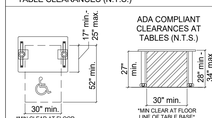
SEATING & DECOR KEY

F1A	HERITAGE BOOTH/ BANQUETTE	F6A	FARM STOOL - 22" HEIGHT
F2A	TABLES (TYP)	D1A	BRAND ICON, TWO-SIDED (44" X 44")
F2B	MULTI-PURPOSE TABLE	D2A	LOW STEEL WALL
F3A	GATHERING TABLE, 6-TOP *ACCESSIBLE*	D2B	LOW STEEL MESSAGING WALL
F5A	LIBRARY CHAIR, STANDARD	D3A	COKE FIXTURE
F5B	LIBRARY CHAIR, STANDARD (RED)	D5A	PICK-UP SHELF

ACCESSIBILITY KEY

THESE PLANS, AS DRAWN, COMPLY WITH ALL APPLICABLE LAWS, REGULATIONS OR RULES OF ANY LOCAL, COUNTY, STATE, FEDERAL, AND OTHER GOVERNMENTAL AUTHORITY AND ANY BUREAU OR DEPARTMENT THERE OF, WHICH MAY BE APPLICABLE INCLUDING, BUT NOT LIMITED TO THE AMERICANS WITH DISABILITIES ACT AND THE REGULATIONS THERE UNDER.

TABLE CLEARANCES (N.T.S.)



MANEUVERING CLEARANCES AT DOORS (N.T.S.)

General Contractor Notes & Information

*FCC COMMERCIAL FURNITURE INC.

GENERAL CONSTRUCTION

1. ALL WORK, CONSTRUCTION, FURNITURE AND MATERIALS SHALL COMPLY WITH ALL PROVISIONS OF LOCAL BUILDING CODES AND WITH OTHER RULES, REGULATIONS AND ORDINANCES GOVERNING THE LOCATION OF CONSTRUCTION.
2. FCC COMMERCIAL FURNITURE CONTRACT DOCUMENTS STRIVE TO CONFORM TO THE INTERNATIONAL BUILDING CODE. FCC COMMERCIAL FURNITURE IS NOT LICENSED TO PROVIDE SIGNED/SEALED DRAWINGS. FCC COMMERCIAL FURNITURE COOPERATES WITH OWNER/CLIENT'S LICENSED PROFESSIONALS TO PROVIDE DRAWINGS AND SPECIFICATIONS THAT MEET LOCAL BUILDING CODES.
3. FCC COMMERCIAL FURNITURE CONTRACT DOCUMENTS STRIVE TO CONFORM TO THE TITLE III OF THE AMERICANS WITH DISABILITY ACT (ADA). FCC COMMERCIAL FURNITURE IS NOT LICENSED TO PROVIDE SIGNED/SEALED DRAWINGS. FCC COMMERCIAL FURNITURE COOPERATES WITH OWNER/CLIENT'S LICENSED PROFESSIONALS TO PROVIDE DRAWINGS AND SPECIFICATIONS THAT ARE IN COMPLIANCE WITH ADA. FCC CANNOT BE RESPONSIBLE FOR CONSTRUCTION DEVIATIONS BY OTHERS FROM THE DESIGN THAT MAY BE OUT OF COMPLIANCE.
4. IT IS THE RESPONSIBILITY OF ALL PARTIES SUPPLYING LABOR, MATERIAL, OR BOTH TO BRING TO THE ATTENTION OF FCC'S CUSTOMER SERVICE MANAGER, THE PROJECT ARCHITECT, AND THE OWNER ANY DISCREPANCIES OR CONFLICT BETWEEN THE CODE REQUIREMENT AND THESE DESIGN INTENT DRAWINGS.
5. THE APPLICABLE CODES SHOULD INCLUDE, BUT SHALL NOT BE LIMITED TO THE INTERNATIONAL BUILDING CODE, BOCA NATIONAL BUILDING CODE, UNIFORM PLUMBING CODE, UNIFORM ELECTRICAL CODE, UNIFORM MECHANICAL CODE AND THE UNIFORM FIRE CODE.
6. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL WORK IN ACCORDANCE WITH ALL LOCAL AND CITY BUILDING CODES/ ORDINANCES.
7. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL AMERICANS WITH DISABILITIES ACT GUIDELINES, INCLUDING BUT NOT LIMITED TO TABLE TOP/BASE INSTALLATIONS, AISLE WAY CLEARANCES, AND QUEUE LINE AREA CLEARANCES.
8. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED BUILDING CONSTRUCTION AND INSTALLATION PERMITS.
9. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COPYING AND DISTRIBUTING ALL FCC COMMERCIAL FURNITURE INC'S PLANS AND DOCUMENTS TO ALL SUBCONTRACTORS INVOLVED.
10. FCC PROVIDED DIMENSIONS ARE INDICATED FROM INSIDE WALL FACES.
11. ALL SEATING, FINISH, AND DECOR ITEMS INDICATED AS BEING SUPPLIED AND OR INSTALLED BY GENERAL CONTRACTOR ARE THE RESPONSIBILITY OF THE OWNER. THE OWNER'S RESPONSIBILITIES INCLUDE ALL CONTRACTS WITH THE GENERAL AND SUB-CONTRACTORS AND THEIR COMPLIANCE WITH THESE DOCUMENTS AND SPECIFICATIONS.
12. THESE DRAWINGS AND DOCUMENTS REPRESENT THE DESIGN INTENT AND CONCEPTS FOR THIS PROJECT. THE DRAWINGS AND DOCUMENTS MUST BE SIGNED AND APPROVED BY OWNER. DO NOT USE FOR CONSTRUCTION.

STANDARD STORES / PROJECTS

1. THESE DRAWINGS, SCHEDULES, AND SPECIFICATIONS, AS WELL AS, OTHER SEGMENTS OF SERVICES ARE AND SHALL REMAIN THE PROPERTY OF FCC COMMERCIAL FURNITURE WHETHER OR NOT THE PROJECT THESE DOCUMENTS WERE PREPARED FOR IS COMPLETED OR EXECUTED. IF THE OWNER/CLIENT HAS COMPENSATED FCC COMMERCIAL FURNITURE UNDER SIGNED CONTRACT, THE OWNER IS PERMITTED TO RETAIN COPIES OF THE DRAWINGS, SCHEDULES AND SPECIFICATIONS. FCC COMMERCIAL FURNITURE IS NOT RESPONSIBLE FOR ANY LOSS, COSTS OR DAMAGES RELATING TO USE OR APPLICATION. THE OWNER/CLIENT MAY NOT USE THE DRAWINGS, SCHEDULES, SPECIFICATIONS PROVIDED HEREIN FOR ANY PROJECT OTHER THAN THE ORIGINAL PROJECT. FCC COMMERCIAL FURNITURE IS THE OWNER OF THE INTELLECTUAL PROPERTY PROVIDED AND RETAINS ALL STATUTORY AND COMMON LAW COPYRIGHTS. IF OWNER/CLIENT AND FCC COMMERCIAL FURNITURE TERMINATE THIS CONTRACT FOR DESIGN SERVICES, THE OWNER/CLIENT SHALL NO LONGER HAVE THE RIGHTS TO THE DRAWINGS, SCHEDULES, AND SPECIFICATIONS. THE OWNER/CLIENT MAY NOT PERMIT ANY THIRD PARTY TO USE SUCH DRAWINGS, SCHEDULES, AND SPECIFICATIONS FOR DESIGN SERVICES FOR FUTURE ADDITIONS OR ALTERATIONS TO THE PROJECT. THE DESIGN DEPICTED WITHIN THE CONTENTS OF THESE DRAWINGS MAY NOT BE USED BY THE OWNER TO SHOP FOR OTHER SEATING AND DECOR MANUFACTURES TO FULFILL THE INTENDED DESIGN. UNAUTHORIZED USE WILL RESULT IN PAYMENT FOR DESIGN SERVICES AT FCC COMMERCIAL FURNITURE'S STANDARD DESIGN RATE. ALL COMPUTER GENERATED IMAGERY, GRAPHICS, DRAWINGS AND ILLUSTRATIONS WITHIN THESE DOCUMENTS REMAIN THE PROPERTY OF FCC COMMERCIAL FURNITURE. ALL RIGHTS RESERVED.
2. THE OWNER/CLIENT AND GENERAL CONTRACTOR AGREE THAT FCC COMMERCIAL FURNITURE REPRESENTATIVES MAY VISIT THE SITE AT ANY POINT DURING CONSTRUCTION IN THE INTEREST OF COMPLETING FCC'S WORK.
3. THE OWNER/CLIENT'S GENERAL CONTRACTOR AGREES TO PROVIDE CONDITIONS CONDUCIVE TO COMPLETE INSTALLATION OF FCC'S WORK UPON DELIVERY OF SEATING AND DECOR ELEMENTS. THE GENERAL CONTRACTOR AGREES TO COOPERATE WITH FCC'S INSTALLATION CREWS IN THE INTEREST OF COMPLETION OF WORK. THE GENERAL CONTRACTOR WILL NOTIFY FCC IN A TIMELY MANNER, ANY PHYSICAL RESTRICTIONS THAT MAY IMPEDE THE COMPLETION OF THE SEATING AND DECOR PACKAGE.
4. WRITTEN DIMENSIONS SUPERSEDE SCALED MEASUREMENTS IN ALL CASES. DO NOT SCALE OFF OF PLANS. FOR ADDITIONAL DIMENSIONS CALL FCC'S PROJECT COORDINATOR AT 800.322.7328.
5. FCC REQUIRES VERIFICATION OF FIELD DIMENSIONS FROM THE ARCHITECT / GENERAL CONTRACTOR FOR THE FABRICATION OF COMMERCIAL FURNITURE, DECOR, CORE DRILL AND SEATING SPACE PLANS. WHEN FIELD DIMENSIONS CANNOT BE ATTAINED, SHIPMENTS MAY BE SUBJECT TO TIME DELAYS. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE AND NOTIFY FCC COMMERCIAL FURNITURE OF ALL DISCREPANCIES PRIOR TO COMMENCING DECOR DESIGN.
6. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR DISPOSAL OF ALL PACKAGING MATERIAL FROM SEATING AND DECOR PRODUCTS.
7. THE CREW ROOM AND VESTIBULE FINISHES TO BE THE SAME AS THE MAIN DINING ROOM, UNLESS OTHERWISE STATED BY THE OWNER OR NOTED ON PLANS AND IN THE SPECIFICATION BY FCC.

REBUILDS AND REMODEL PROJECTS

1. IN CASES OF REBUILDING OR REMODELING PROJECTS, ALL EXISTING SEATING, DECOR, AND WALL FINISHES ARE TO BE PREPPED AND READY TO RECEIVE NEW FINISHES BY THE OWNER AND/OR GENERAL CONTRACTOR, UNLESS OTHERWISE NOTED.
2. FLOOR AND BASE TILE MUST BE IN GOOD REPAIR BEFORE ANY CORE DRILLING IS ALLOWED.
3. ALL DIMENSIONS ARE FROM EXISTING FINISHES, UNLESS OTHERWISE NOTED. MAKE APPROPRIATE ALLOWANCES FOR NEW FINISH WORK. CONTACT FCC'S PROJECT COORDINATORS FOR ANY CONFLICTS BETWEEN FCC'S DECOR AND ELECTRICAL OR HVAC EQUIPMENT.

GENERAL FLOORING NOTES

1. ALL FLOOR, SCHLUTER STRIP, AND COVE BASE TILE TO BE PROVIDED BY AND INSTALLED BY GENERAL CONTRACTOR, UNLESS OTHERWISE NOTED. FCC IS NOT LIABLE FOR CORED STEEL THAT MAY BECOME UNSTABLE AS A RESULT OF DRILLING THROUGH A CONCRETE SLAB. NOTIFY FCC, ARCHITECT, AND GENERAL CONTRACTOR OF ANY SLAB LESS THAN FIVE (5") INCHES THICK.
2. FCC IS NOT RESPONSIBLE FOR DAMAGE OF ANY MECHANICAL ELEMENTS LOCATED IN THE FINISHED FLOOR.
3. COVE BASE AND/OR BULLNOSE TILE ON FCC DIVIDER WALLS TO BE SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR UNLESS OTHERWISE NOTED.

GENERAL ELECT. / HVAC / CEILING NOTES

1. FCC LIGHTING PLANS ARE GUIDELINES ONLY. FCC WILL NOT BE HELD LIABLE FOR ADDITIONAL COSTS DUE TO ADJUSTING LIGHTING QUANTITIES OR LOCATIONS. VARIATIONS WITH ARCHITECTURAL PLANS OR LOCAL CODES.
2. GENERAL CONTRACTOR TO SUPPLY AND CONNECT ELECTRICAL PIGTAILS AT ALL CODED LOCATIONS FOR FCC DECOR PRODUCTS.
3. ALL ELECTRICAL FIXTURES, WIRING AND INSTALLATION TO BE "U.L. APPROVED."
4. LIGHTING FIXTURES AND/OR HVAC MAY NEED TO BE RELOCATED BY GENERAL CONTRACTOR TO ACCOMMODATE DECOR. REFER TO CEILING PLANS.
5. GENERAL CONTRACTOR TO CONTACT CONSTRUCTION ENGINEER TO VERIFY ALL LIGHTING PLACEMENTS AND FINAL HVAC LOCATIONS.

GENERAL WARRANTIES

1. LIMITED WARRANTY: FCC COMMERCIAL FURNITURE WARRANTS TO THE OWNER/CLIENT THAT THE PRODUCTS SOLD WILL BE FREE FROM MATERIAL DEFECTS IN WORKMANSHIP UNDER NORMAL USE AND SERVICE FOR A PERIOD OF ONE YEAR FROM THE DATE OF FCC COMMERCIAL FURNITURE'S DELIVERY OF PRODUCTS TO THE DELIVERED LOCATION. THERE IS NO WARRANTY IN CASES OF DAMAGES IN TRANSIT, NEGLIGENCE, ABUSE, ABNORMAL USAGE, MISUSE, ACCIDENTS, NORMAL WEAR AND TEAR, DAMAGE DUE TO ENVIRONMENTAL OR NATURAL ELEMENTS, FAILURE TO FOLLOW FCC'S INSTRUCTIONS, OR IMPROPER INSTALLATION, STORAGE AND/OR MAINTENANCE.
2. THE OWNER/CLIENT SHALL VERIFY THE CONDITIONS OF THE SHIPMENT AND NOTIFY FCC COMMERCIAL FURNITURE OF ANY DAMAGES WITHIN 24 HOURS. TRANSFER OF TITLE OCCURS UPON SHIPMENT F.O.B. FROM FCC'S FACILITY.
3. THE OWNER/CLIENT SHALL ACCOMPANY A FCC COMMERCIAL FURNITURE REPRESENTATIVE ON A PROJECT COMPLETION WALK THROUGH TO IDENTIFY INCOMPLETE WORK.

IMPORTANT NOTES

1. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALE IN ALL CASES.
2. DO NOT SCALE OFF PLANS. CONTACT FCC COMMERCIAL FURNITURE'S REPRESENTATIVE TO VERIFY ANY QUESTIONABLE DIMENSIONS AT TELEPHONE # 800.322.7328.
3. THE GENERAL CONTRACTOR MUST VERIFY ALL BUILDING DIMENSIONS, EQUIPMENT, FURNITURE PLACEMENT, UTILITY LOCATIONS, AND CONDITIONS AT THE JOB SITE.
4. THE GENERAL CONTRACTOR MUST NOTIFY FCC COMMERCIAL FURNITURE OF ALL DISCREPANCIES AND/OR REQUIRED ADJUSTMENTS PRIOR TO STARTING WORK.
5. FCC COMMERCIAL FURNITURE HAS PREPARED THESE DOCUMENTS AS ACCURATELY AS POSSIBLE WITH THE ARCHITECTURAL INFORMATION PROVIDED. DUE TO LACK OF ACCURATE AND AND COMPLETE DIMENSIONED ARCHITECTURAL PLANS, OWNER UNDERSTANDS THAT ADJUSTMENTS TO THE FINAL LOCATIONS OF EQUIPMENT AND/OR FURNITURE PLACEMENT MAY BE REQUIRED AT THE OWNER'S EXPENSE DUE TO DISCREPANCIES BASED ON ACTUAL JOB SITE DIMENSIONS AND CONDITIONS.
6. REFER TO ARCHITECTURAL OR ENGINEER DRAWINGS FOR COMPLETE AND ACCURATE DIMENSIONS OF BUILDING STRUCTURE.
7. THESE CONTRACT DOCUMENTS AND THE INFORMATION THEY CONTAIN ARE THE PROPERTY OF FCC COMMERCIAL FURNITURE INC., ROSEBURG, OREGON, 97470.
8. ALL PREPARED CONTRACT DOCUMENTS MAY NOT BE COPIED, REPRODUCED, USED OR IMPLEMENTED IN ANY WAY, IN PART OR IN WHOLE, WITHOUT THE EXPRESS WRITTEN CONSENT OF FCC COMMERCIAL FURNITURE INC.
9. ANY UNAUTHORIZED USE OF THESE PLANS WILL RESULT IN PAYMENT DUE FOR SERVICES RENDERED BY FCC COMMERCIAL FURNITURE INC.
10. ANY DEVIATIONS FROM THESE DRAWINGS FOR ANY REASON SHALL NOT BE DONE WITHOUT CONSENT OF FCC COMMERCIAL FURNITURE INC, IN ADVANCE, IN WRITING. FCC COMMERCIAL FURNITURE IS NOT RESPONSIBLE FOR DEVIATIONS, CHANGES, ADDITIONS, OR DELETIONS NOT REVIEWED AND APPROVED IN ADVANCE BY FCC COMMERCIAL FURNITURE INC.
11. THESE DOCUMENTS REFLECT SPECIFIC SEATING AND DECOR EQUIPMENT ORDERED OF DATE SHOWN.

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CUSTER & WASHINGTON

WASHINGTON STREET
HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
PRINTED FOR

PERMIT SET

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
0	03-01-2024	PLAN CHECK
1	07-03-2024	PLAN CHECK - REV1
2	08-22-2025	PLAN CHECK - REV2
4	10-20-2025	PLAN CHECK - REV4

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AT ALL TIMES

CONSULTANT PROJECT #	24832-001
DATE	10/20/25
DRAWN BY	AARON MCCRAW

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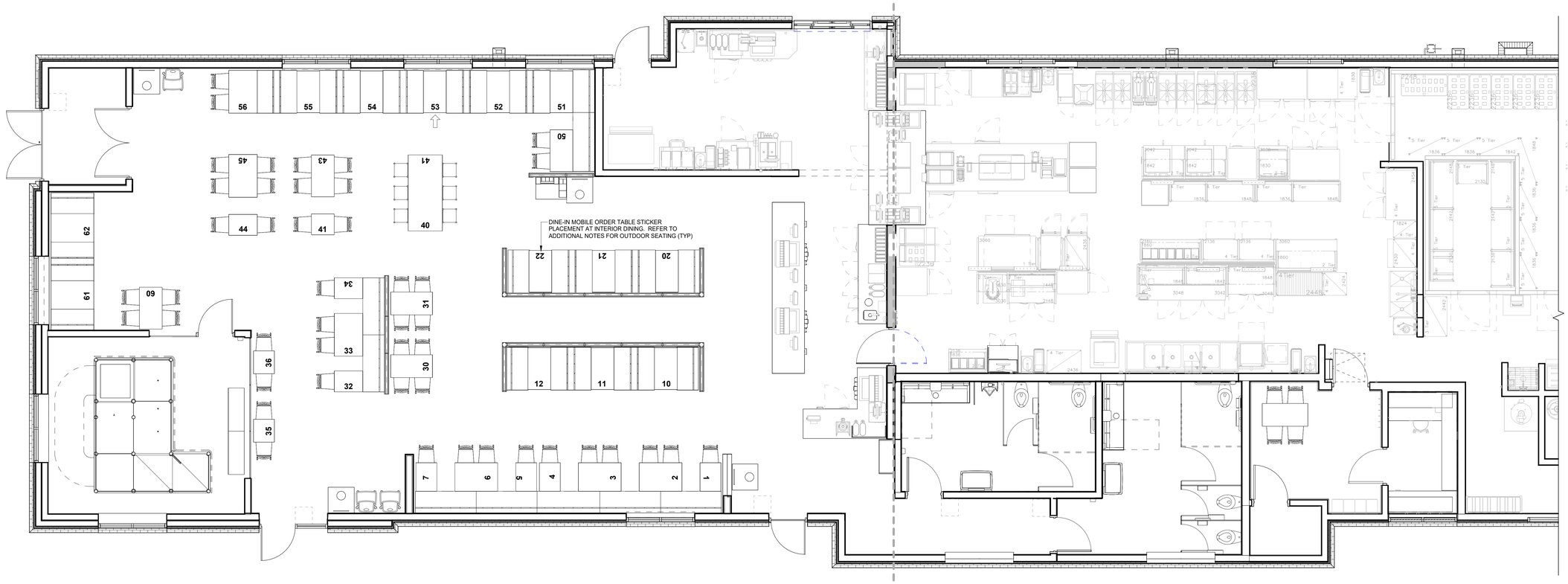
SHEET
FURNITURE FLOOR PLAN

SHEET NUMBER
F-201

10/17/2025 6:34:14 AM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_FRN.rvt
70-LS XPS-05484-F-201-FURNITURE FLOOR PLAN



B1 TABLE NUMBER PLACEMENT PLAN_BTS
1/4" = 1'-0"

IMPORTANT NOTES

** READ INSTALLATION GUIDE BEFORE BEGINNING TO INSTALL TABLE NUMBERS **

INTERIOR TABLES

1. GROUP ZONES OF TABLE NUMBERS BY 10'S, STARTING AT 1.
2. WITHIN EACH ZONE, TABLE NUMBERS SHOULD BE PLACED IN ASCENDING ORDER ALONG THE TEAM MEMBER PATH OF DELIVERY.
3. TABLE NUMBERS SHOULD ALWAYS BE ORIENTED TOWARDS THE TEAM MEMBER DELIVERY SIDE OF THE TABLE AND PARALLEL TO THE EDGE OF THE TABLE. DO NOT PLACE TABLE NUMBERS WHERE A GUEST MAY SIT.
4. NUMBER EVERY TABLE TOP EXCEPT IN THE FOLLOWING SCENARIO: TWO TABLES THAT ARE ALWAYS KEPT TOGETHER AGAINST A WALL. NUMBER THE TABLE MOST VISIBLE FROM THE TEAM MEMBER DELIVERY PATH.
5. COUNTER SEATING: PLACE TABLE NUMBER ON EACH END OF THE COUNTER.
6. SHARED SEATING (GATHERING TABLE, ETC.): APPLY TWO CONSECUTIVE TABLE NUMBERS ON SHARED SEATING TABLE, ONE ON EACH END. IF THE SHARED SEATING TABLE HAS A PLAQUE, PLACE THE NUMBER TO ITS LEFT, CENTER ALIGNED TO THE PLAQUE. IF THE SHARED SEATING TABLE DOES NOT HAVE A PLAQUE, CENTER TABLE NUMBERS ON EACH END.

EXTERIOR TABLES

1. START TABLE NUMBERS AT 70 TO CREATE A CLEAR JUMP IN THE NUMBERING SEQUENCE SO TEAM MEMBERS WILL KNOW TO DELIVER MEALS OUTDOORS.
2. WITHIN ZONE, TABLE NUMBERS SHOULD BE PLACED IN ASCENDING ORDER STARTING FROM THE DOOR.
3. OUTDOOR TABLE NUMBERS SHOULD BE ORIENTED TOWARDS THE TEAM MEMBER DELIVERY PATH.
4. SQUARE TABLES: SELECT THE CORNER CLOSEST TO THE TEAM MEMBER DELIVERY PATH.
5. ROUND TABLES: SELECT THE EDGE CLOSEST TO THE TEAM MEMBER DELIVERY PATH. DO NOT PLACE TABLE NUMBERS IN THE CENTER OR WHERE A GUEST MAY SIT.

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FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION
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SHEET
TABLE NUMBER PLACEMENT PLAN

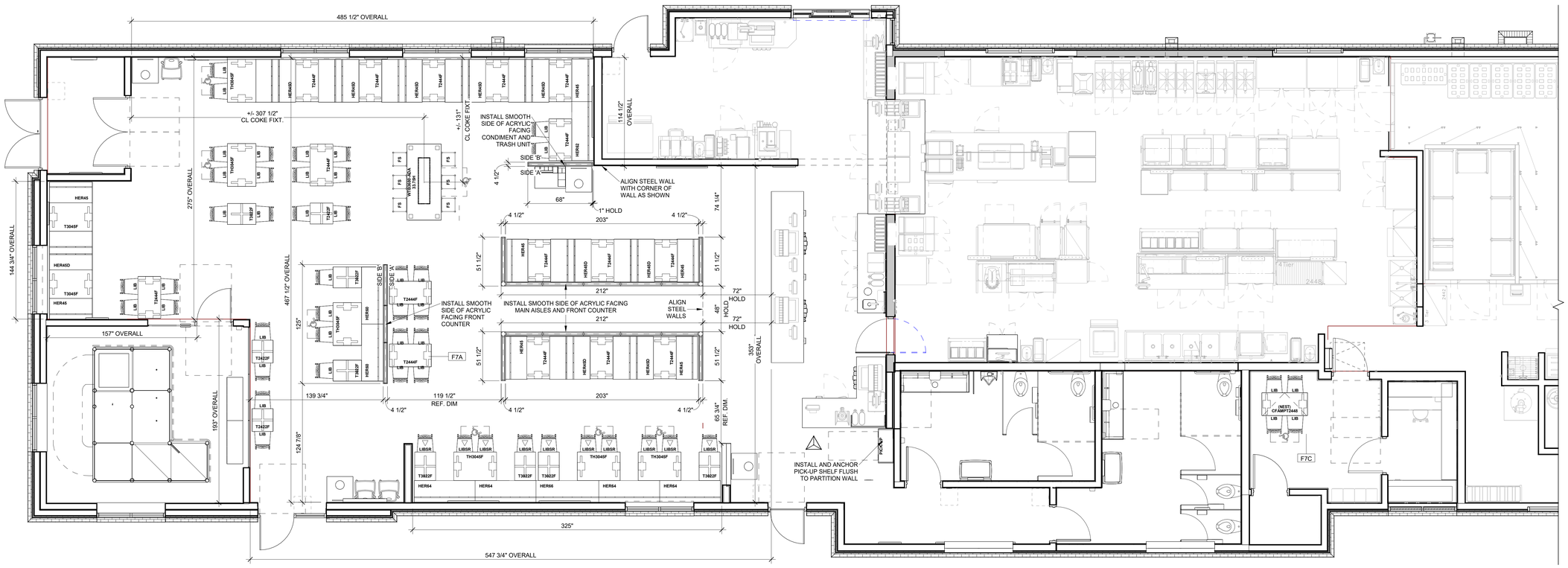
SHEET NUMBER
F-202

10/17/2025 6:34:39 AM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_FRN.rvt
70-LS XPS-05484-F-202-TABLE NUMBER PLACEMENT PLAN

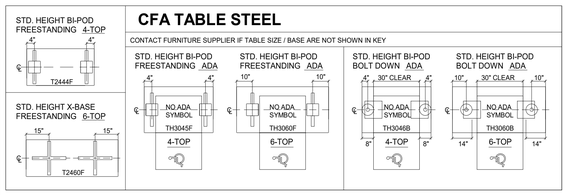
WALL/ QUEUE KEY	STEEL LOW WALL, BY FCC 4.5" BASE PLATE	STEEL FULL HEIGHT WALL, BY FCC 2.5" DEPTH	STREAMLINE, QUEUE, BY FCC 2.5" RAIL DEPTH	STREAMLINE, QUEUE, BY FCC 2.5" RAIL + PLATES	REFER TO ARCHITECTURAL PLAN FOR INTERIOR GC BUILT PARTITION TYPES/ DETAILS. WALL KEY REFERS TO FCC MANUF. PRODUCT ONLY.
	BOLT DOWN	*BOLT DOWN*	*CORED*	*BOLT DOWN*	

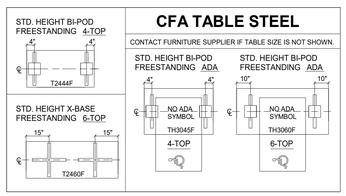
STEEL KEY	CORE DRILLED SYMBOLS	GENERIC CORE	12"x12" PLATE CORE	12"x12" PLATE (OFFSET)	1x3 STEEL	1x3 STEEL (OFFSET)	BOLT DOWN SYMBOLS	GENERIC BOLT DOWN	12"x12" PLATE	12"x12" PLATE (OFFSET)	1x3 STEEL	1x3 STEEL (OFFSET)	FREESTANDING SYMBOLS	X-BASE	BI-POD

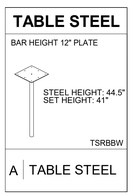
NOTE: THIS KEY REPRESENTS GENERAL STEEL SYMBOLS. REFERENCE PROJECT FOR PRODUCT SPECIFICATIONS/ STEEL TYPES.

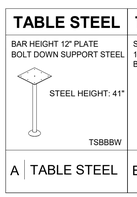


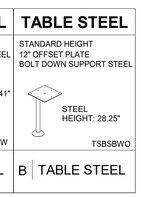
C1 CORE DRILL PLAN_BTS
1/4" = 1'-0"

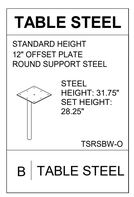


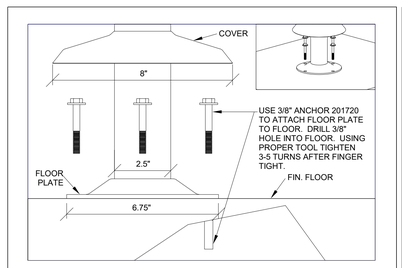




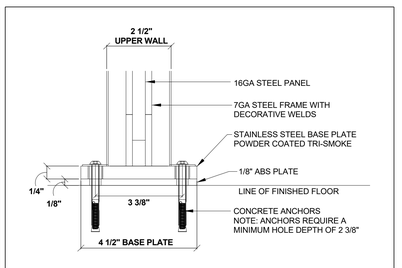








BOLT DOWN STEEL INSTRUCTIONS
SCALE: N.T.S



STEEL LOW WALL - BASE PLATE (BOLT DOWN)
SCALE: N.T.S

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FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
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CONSULTANT PROJECT # 24832-001
DATE 10/20/25
DRAWN BY AARON MCCRAW

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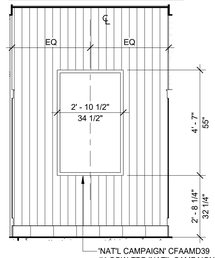
SHEET
FURNITURE CORE DRILL PLAN

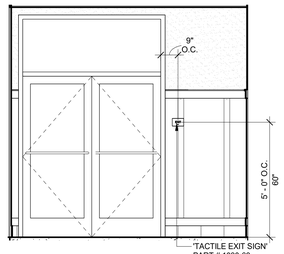
SHEET NUMBER
F-211

10/17/2025 6:35:06 AM Autodesk Docs://MT_05484_Custer & Washington FSU_2023-10_FSR/05484_Custer & Washington FSU_FRN.rvt
70-LS XPS-05484-F-211-FURNITURE CORE DRILL PLAN

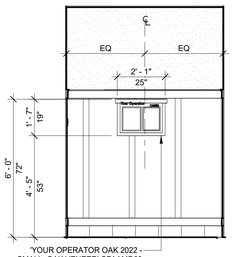
INSTALL NOTE: INSTALLER TO CUT BOARD/ BATTEN TRIM AS REQ'D FOR MESSAGING PANEL(S). COORDINATE WORK WITH GC.



1 NATIONAL CAMPAIGN PANEL
3/8" = 1'-0"

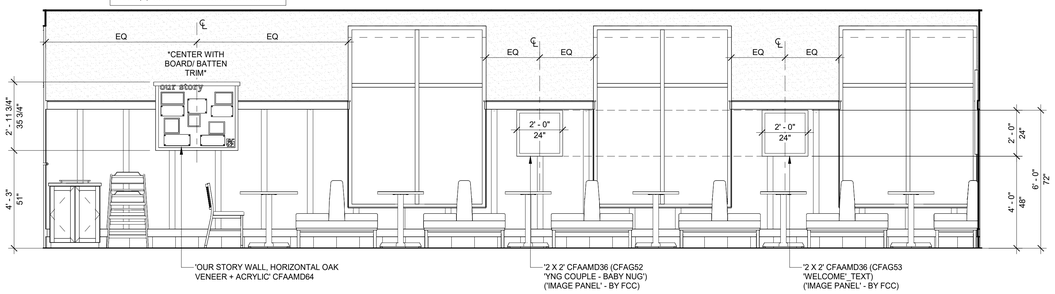


2 TACTILE EXIT SIGN AT DOUBLE DOOR ENTRY
3/8" = 1'-0"



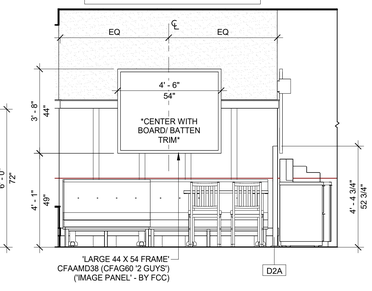
3 YOUR OPERATOR PANEL
3/8" = 1'-0"

INSTALL NOTE: INSTALLER TO CUT BOARD/ BATTEN TRIM AS REQ'D FOR MESSAGING PANEL(S). COORDINATE WORK WITH GC.



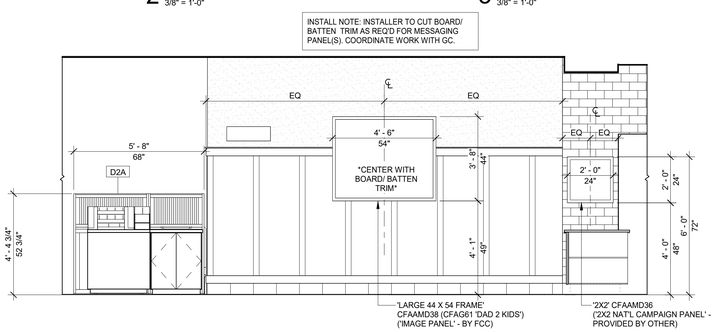
4 OUR STORY & INTERIOR MESSAGING
3/8" = 1'-0"

INSTALL NOTE: INSTALLER TO CUT BOARD/ BATTEN TRIM AS REQ'D FOR MESSAGING PANEL(S). COORDINATE WORK WITH GC.

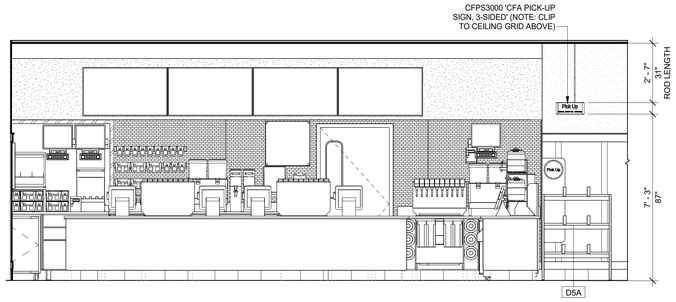


5 LARGE 44X54 FRAME
3/8" = 1'-0"

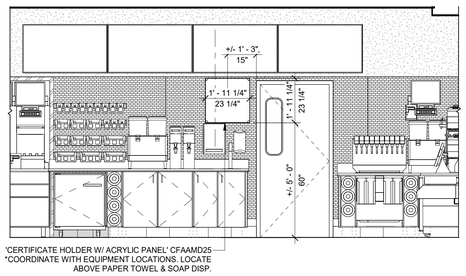
INSTALL NOTE: INSTALLER TO CUT BOARD/ BATTEN TRIM AS REQ'D FOR MESSAGING PANEL(S). COORDINATE WORK WITH GC.



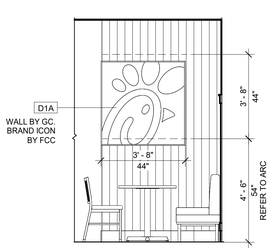
6 LARGE 44 X 54 FRAME & NAT'L CAMP. 2X2 PANEL
3/8" = 1'-0"



7 PICK-UP SHELF & PICK-UP SIGN
3/8" = 1'-0"



8 CERTIFICATE HOLDER
3/8" = 1'-0"

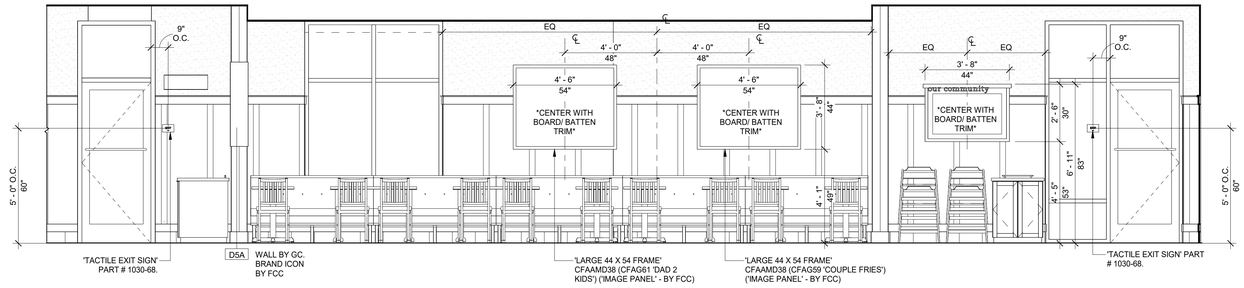


9 BRAND ICON
3/8" = 1'-0"

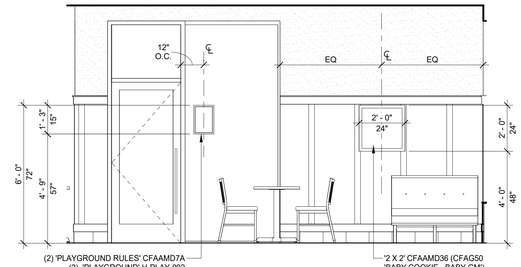
INSTALL NOTE: INSTALLER TO CUT BOARD/ BATTEN TRIM AS REQ'D FOR MESSAGING PANEL(S). COORDINATE WORK WITH GC.

INSTALL NOTE: INSTALLER TO CUT BOARD/ BATTEN TRIM AS REQ'D FOR MESSAGING PANEL(S). COORDINATE WORK WITH GC.

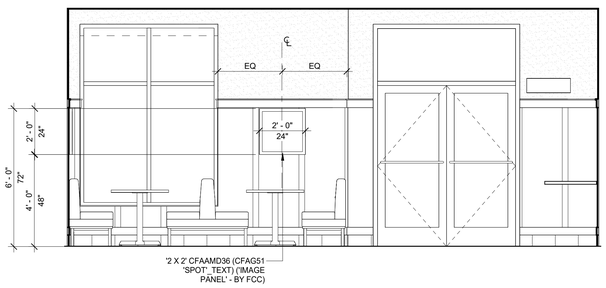
INSTALL NOTE: INSTALLER TO CUT BOARD/ BATTEN TRIM AS REQ'D FOR MESSAGING PANEL(S). COORDINATE WORK WITH GC.



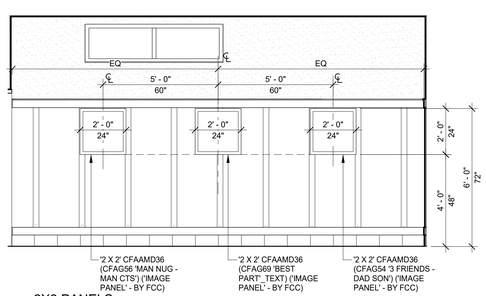
10 2X2 PANEL & TACTILE EXIT SIGN
3/8" = 1'-0"



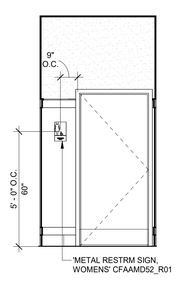
11 PLAYGROUND RULES & 2X2 PANEL
3/8" = 1'-0"



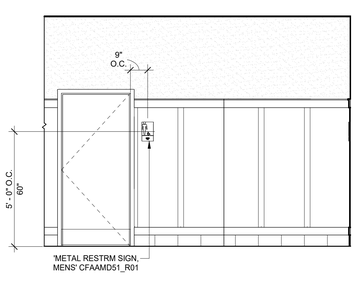
12 2X2 PANEL
3/8" = 1'-0"



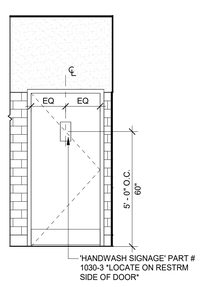
13 2X2 PANELS
3/8" = 1'-0"



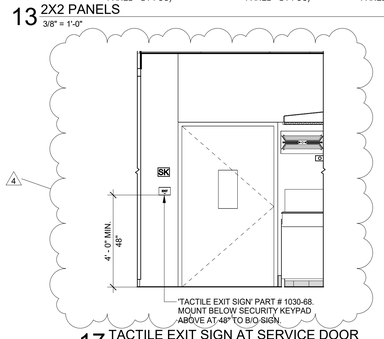
14 WOMENS RESTROOM SIGN
3/8" = 1'-0"



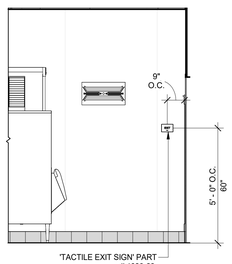
15 MENS RESTROOM SIGN
3/8" = 1'-0"



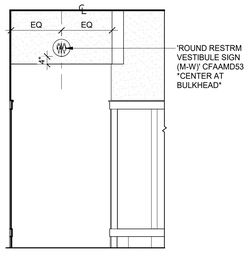
16 HANDWASH SIGNAGE
3/8" = 1'-0"



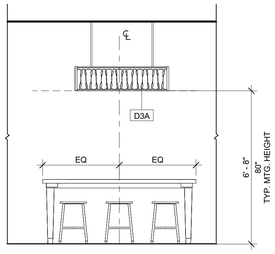
17 TACTILE EXIT SIGN AT SERVICE DOOR
3/8" = 1'-0"



18 BTS_TACTILE EXIT SIGN AT DRIVE THRU
3/8" = 1'-0"



19 ROUND RESTROOM SIGN
3/8" = 1'-0"



20 COKE FIXTURE (TYP)
3/8" = 1'-0"

INTERIOR MESSAGING PANELS TO GET MOUNTED DIRECTLY OVER BOARD/ BATTEN WALL FINISH AS SHOWN UNLESS NOTED OTHERWISE TO CUT UPPER HORIZONTAL TRIM & VERTICAL BOARD/ BATTEN TRIM.

REFER TO ELEVATIONS FOR INTERIOR MESSAGING, FURNITURE, AND/OR DECOR LOCATIONS ONLY. REFER TO ARCHITECTURAL SHEETS FOR ALL INTERIOR FINISH & WALL PARTITION TYPE INFORMATION.

10/17/2025 6:35:29 AM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_FRN.rvt
70-LS XPS-05484-F-701-DECOR ELEVATIONS

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

FCC COMMERCIAL FURNITURE INC.
8452 OLD HWY 99 N
ROSEBURG, OR 97470 USA
T. 800.322.7328 | F. 541.673.7441 |
WWW.FCC-CREATE.COM
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CHICK-FIL-A
CUSTER & WASHINGTON

WASHINGTON STREET
HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
PRINTED FOR
PERMIT SET

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
03-01-2024		PLAN CHECK
1	07-03-2024	PLAN CHECK - REV1
2	08-22-2025	PLAN CHECK - REV2
4	10-20-2025	PLAN CHECK - REV4

PERMIT COPY
THIS SET OF APPROVED PLANS TO BE ON JOB SITE AT ALL TIMES

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CONSULTANT PROJECT # 24832-001
DATE 10/20/25
DRAWN BY AARON MCCRAW

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SHEET
DECOR ELEVATIONS

SHEET NUMBER
F-701

_FURNITURE SYSTEM SCHEDULE_BTS

Item Number	Description	Part Number	Manufacturer	Qty.	Type Comments
500241	Millwork_Low Steel Wall_39	CFAW101-39-R04	Furniture Vendor	1	Bolt Down Base Plate
500241	Millwork_Low Steel Wall_43	CFAW101-43-R04	Furniture Vendor	2	Bolt Down Base Plate
500241	Millwork_Low Steel Wall_68	CFAW101-68-R04	Furniture Vendor	1	Bolt Down Base Plate
500241	Millwork_Low Steel Wall_50.75 x 159.5 x 50.75	CFAW101U-50.75x159.5x50.75-R04	Furniture Vendor	1	Bolt Down Base Plate
500241	Millwork_Low Steel Wall_50.75 x 210.5 x 50.75	CFAW103U-50.75x210.5x50.75-R04	Furniture Vendor	1	Bolt Down Base Plate
Grand total: 6				6	

MATERIALS & FINISH SCHEDULE (FURNITURE & DECOR) - Heritage

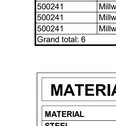
05-2023

MATERIAL	CODE	MANUFACTURER	PRODUCT SPECIFICATION	SIZE	CONTACT / ADDITIONAL INFORMATION	ADDITIONAL NOTES
STEEL						
	S-1	N/A	RESOLVE SILVER METALLIC	N/A	FURNITURE SUPPLIER/ MANUF.	--
	S-2	NOT USED				
	S-3	N/A	DARK CHERRY	N/A	FURNITURE SUPPLIER/ MANUF.	
	S-4	N/A	TRI-SMOKE MINI TEX. #T1-7060	N/A	FURNITURE SUPPLIER/ MANUF.	
	S-5	N/A	ALUMINUM, BLACK	N/A	FURNITURE SUPPLIER/ MANUF.	
	S-6	N/A	TIGER 89/80419 RAL 9011-FINE TEXTURE	N/A	FURNITURE SUPPLIER/ MANUF.	
	S-7	N/A	BLACK WRINKLE	N/A	FURNITURE SUPPLIER/ MANUF.	
UPHOLSTERY						
	UPH-1	MOMENTUM	CFA COMB, JH4648A6 W/ MPC	N/A	UPHOLSTERY DISTRIBUTOR	
	UPH-2	CF STINSON	MONTANA, CFASB, SABLE BROWN (VINYL)	N/A	UPHOLSTERY DISTRIBUTOR	
	UPH-3	ARC COM	DURANGO, AC-67567 RED (VINYL)	N/A	UPHOLSTERY DISTRIBUTOR	
PLASTIC LAMINATE						
	PL-1	PIONITE	AT660, CRISSCROSS	N/A	LOCAL DISTRIBUTOR	
	PL-2	NEVAMAR	S1027T, LIBERTY RED	N/A	LOCAL DISTRIBUTOR	
	PL-3	WILSONART	4846-60, MORRO ZEPHYR	N/A	LOCAL DISTRIBUTOR	
	PL-4	FORMICA	20949-90 WHITE DRY ERASE MARKER BOARD, POLISHED	N/A	LOCAL DISTRIBUTOR	
	PL-5	NOT USED				
	PL-6	WILSONART	D96-60 SHADOW	N/A	LOCAL DISTRIBUTOR	
EDGE BAND						
	EB-1	N/A	REHAU, 309423-014/592E (DOELLKEN MULTIPLEX MATCH) -384-12	N/A	FURNITURE SUPPLIER/ MANUF.	
	EB-2	N/A	REHAU, SLATE GRAY WD91	N/A	FURNITURE SUPPLIER/ MANUF.	
DECORATIVE BOARD						
	DB-1	N/A	BALTIC BIRCH EDGE, CHI-001 CLEAR FINISH	N/A	FURNITURE SUPPLIER/ MANUF.	
ACRYLIC						
	AC-1	3-FORM	VARIA ECO-RESIN, CFA CUSTOM TEXTURE PATENT FINISH + CLEAR	N/A	FURNITURE SUPPLIER/ MANUF.	
	AC-2	CLEAR FORM	CAST WHITE 7508	N/A	FURNITURE SUPPLIER/ MANUF.	
WOOD						
	WD-1	N/A	SOLID WHITE OAK	N/A	FURNITURE SUPPLIER/ MANUF.	
SOLID SURFACE						
	SS-1	NOT USED				
	SS-2	AVONITE	ELEVATION	N/A	FURNITURE SUPPLIER/ MANUF.	
GLASS						
	GL-1	NOT USED				
	GL-2	N/A	COKE GLASS - SMART GLASS JEWELRY *COKE FIXTURE*	N/A	FURNITURE SUPPLIER/ MANUF.	

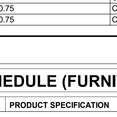
GENERAL NOTES:
1. MATERIAL SPECIFICATIONS LISTED ABOVE ARE TYPICAL TO SEATING PACKAGE. NOT ALL FINISHES MAY BE USED. REFER TO FURNITURE DETAILS FOR SPECIFIC MATERAILS USED IN PROJECT.

_FURNITURE SCHEDULE_BTS

Item Number	Description	Type	Part Number	Code	Manufacturer	Qty.	Type Comments
500236	Table Steel_FS_Bipod	Table Steel_Freestanding_Bipod	1040-1BW		Furniture Vendor	48	Refer to Furniture Plan for Locations.
500236	Table_Base_Flip Top_Casters	Table Steel_Freestanding_Castor Base_Flip Top_22 Base Spread	CFAMPTLG22-FT		Furniture Vendor	2	Freestanding (Tilt / Nest)
500236	Table Steel_FS_X	Table Steel_Freestanding_X	1040-2BW		Furniture Vendor	10	Refer to Furniture Plan for Locations.
500236	Table_Base_FS_ADA 30x45	30 x 45	TABLE3045PC-SQ-S	TH3045F	Furniture Vendor	6	Freestanding
500236	Table_Base_FS_24x44	24 x 44	TABLE2444PC-SQ-S	T2444F	Furniture Vendor	16	Freestanding
500236	Table_Base_FS_30x45	30 x 45	TABLE3045PC-SQ-S	T3045F	Furniture Vendor	2	Freestanding
500236	Table_Base_FS_24x22	24 x 22	TABLE2224PC-SQ-S	T2422F	Furniture Vendor	3	Freestanding
500236	Table_Base_FS_30x22	30 x 22	TABLE2230PC-SQ-S	T3022F	Furniture Vendor	7	Freestanding
500236	Table_Top_MP_Tilt_Nest_24x48	24 X 48_Tilt_Nest_ADA	CFAMPT2448	CFAMPT2448	Furniture Vendor	1	Caster Style Base (Flip Top): CFAMPTLG22-FT
500236	Table_Gathering_Accessible_33.75 Height_6-top	6-Top (Accessible)_33.75" Height	CFAGT7-LP	WTB3680-ADA 33.75H	A Better Way Ministries	1	Furniture Vendor
500237	Chair_Farm Stool_22" H	Chair_Farm Stool_22" H Frame	FARMSTWO	FS	Furniture Vendor	6	Use with Accessible Max 34" Dining Surface
500237	Chair_Library_Standard	Chair_Library_Standard	LIBRARYCHUPH1-CFA-R02	LIB	Furniture Vendor	40	Standard Height Chair
500237	Chair_Library_Red	Chair_Library_Standard_Red	LIBRARYCHUPH1R-CFA-R01	LIBSR	Furniture Vendor	10	Standard Height Chair, Red
500238	Booth_Heritage_Double 45"	45"	HERITAGE45DCBMBAL	HER45D	Furniture Vendor	10	
500238	Booth_Heritage_Single 45"	45"	HERITAGE45SCBMBAL	HER45	Furniture Vendor	7	
500238	Booth_Heritage_Single 60"	60"	HERITAGE60SCBMBAL	HER60	Furniture Vendor	2	
500238	Booth_Heritage_Single 62"	62"	HERITAGE62SCBMBAL	HER62	Furniture Vendor	1	
500238	Booth_Heritage_Single 64"	64"	HERITAGE64SCBMBAL	HER64	Furniture Vendor	4	
500238	Booth_Heritage_Single 66"	66"	HERITAGE66SCBMBAL	HER66	Furniture Vendor	1	
500241	Millwork_Shelf_Pick Up	16 x 36	CFAPICKUP1636-MDD_R02	PICK-UP	Furniture Vendor	1	Anchor to Wall or Millwork.
500246	Interior Signage_2x2 Frame	Signage_2x2 Frame_CFAAMD36_24" x 24"	CFAAMD36		AMD	7	Supplied by Furniture Vendor
500246	Interior Signage_2x2 Frame	Signage_2x2 Frame_CFAAMD36_24" x 24"_Sticker w/ Contact info Nat'l Camp	CFAAMD36		AMD	1	Supplied by Furniture Vendor
500246	Interior Signage_Certificate Holder	Signage_Certificate Holder with Acrylic Panel_CFAAMD25_23.25" x 23.25"	CFAAMD25		AMD	1	Supplied by Furniture Vendor
500246	Signage_DIMO Table Markers	DIMO	-----		Furniture Vendor	1	Refer to Table Number Placement Plan.
500246	Interior Signage_Handwash	Signage_Handwash_Clayton_1030-3	1030-3		Clayton Signs	3	Supplied by Furniture Vendor
500246	Wall Graphic_Image Panel Backer_24x24	Image Panel Backer_24x24	CFAG66		SGK	7	Supplied by Furniture Vendor
500246	Wall Graphic_Image Panel Backer_24x24_Sticker	Image Panel Backer_24x24_Nat'l Camp-Contact Sticker	CFAG66-S		SGK	1	Supplied by Furniture Vendor
500246	Wall Graphic_Image Panel Backer_44x54	Image Panel Backer_44x54_8 Magnets	CFAG67		SGK	4	Supplied by Furniture Vendor
500246	Wall Graphic_Image Panel Backer_Vestibule Frame	Image Panel Backer_Nat'l Campaign-Vestibule Frame	CFAG68		SGK	1	Supplied by Furniture Vendor
500246	Interior Signage_Mens RR Sign_Metal	Signage Mens Restroom Sign_CFAAMD51_10" x 6"	CFAAMD51_R01		AMD	1	Supplied by Furniture Vendor
500246	Interior Signage_Pick-Up	Signage Pick-Up Sign 10'-0" / 10'-4"	CFPS3000		PORTICO	1	Supplied by Furniture Vendor
500246	Interior Signage_Playground Rules_standard_play & see	Signage_Playground Rules_CFAAMD7-1_ 15" x 10.5"	CFAAMD7-1		AMD	2	Supplied by Furniture Vendor
500246	Interior Signage_Round Vestibule RR Sign_Metal	Signage_Round Vestibule Restroom Sign_CFAAMD53_9" DIA (M-W)	CFAAMD53		AMD	1	Supplied by Furniture Vendor
500246	Interior Signage_Tactile Exit	Signage_Tactile Exit_1030-68_4" x 6"	1030-68		Clayton Signs	5	Supplied by Furniture Vendor
500246	Interior Signage_Womens RR Sign_Metal	Signage_Womens Restroom Sign_CFAAMD52_10" x 6"	CFAAMD52_R01		AMD	1	Supplied by Furniture Vendor
500250	Wall Graphic_24x24_Two-Sided	Image Panel_24x24_Baby Cookie-Baby GM	CFAG50		SGK	1	Supplied by Furniture Vendor
500250	Wall Graphic_24x24_One-Sided	Image Panel_24x24_Spot_Text	CFAG51		SGK	1	Supplied by Furniture Vendor
500250	Wall Graphic_24x24_Two-Sided	Image Panel_24x24_Yng Couple-Baby Nug	CFAG52		SGK	1	Supplied by Furniture Vendor
500250	Wall Graphic_24x24_One-Sided	Image Panel_24x24_Welcome_Text	CFAG53		SGK	1	Supplied by Furniture Vendor
500250	Wall Graphic_24x24_Two-Sided	Image Panel_24x24_3 Friends-Dad Son	CFAG54		SGK	1	Supplied by Furniture Vendor
500250	Wall Graphic_24x24_Two-Sided	Image Panel_24x24_Man Nug-Man Cts	CFAG56		SGK	1	Supplied by Furniture Vendor
500250	Wall Graphic_24x24_One-Sided	Image Panel_24x24_Best Part_Text	CFAG69		SGK	1	Supplied by Furniture Vendor
500250	Wall Graphic_44x54_One-Sided	Image Panel_44x54_Couple Fries	CFAG59		SGK	2	Supplied by Furniture Vendor
500250	Wall Graphic_44x54_One-Sided	Image Panel_44x54_2 Guys	CFAG60		SGK	1	Supplied by Furniture Vendor
500250	Wall Graphic_44x54_One-Sided	Image Panel_44x54_Dad 2 Kids	CFAG61		SGK	1	Supplied by Furniture Vendor
500250	Wall Graphic_Your Operator Store Specific	Image Panel_CFAG34-Your Operator Store Specific	CFAG34		By Other	1	Your Operator Image Panel, Supplied by Other
500250	Wall Graphic_Nat'l Campaign Cow	Image Panel_H-COW-TBD-Nat'l Campaign Cow	By Other		Print Direction	1	National Campaign Image Panel, Supplied By Other
500250	Wall Graphic_Nat'l Campaign Panel	Image Panel_2x2 Nat'l Campaign Panel	By Other		By Other	1	National Campaign Image Panel, Supplied by Other
500250	Wall Graphic_CFA Branded_Two-Sided	Image Panel_LWM_Team-3 GFriends	CFAG63		SGK	1	Supplied by Furniture Vendor
500250	Wall Graphic_CFA Branded_Two-Sided	Image Panel_LWM_Laugh-Enjoy_Text	CFAG64		SGK	1	Supplied by Furniture Vendor
500250	Wall Graphic_CFA Branded_Two-Sided	Image Panel_LWM_Mom 2 Kids-Dad 2 Kids	CFAG65		SGK	1	Supplied by Furniture Vendor
500250	Wall Graphic_POP	Image Panel_LWM_POP Image	By Other		By Other	3	Low Wall Messaging Graphics, Provided By Other. Shipped directly to store with other store marketing materials.
500250	Wall Graphic_Playground Rules_Play & See	Image Panel_Playground Rules_Play & See	H-PLAY-001-1		---	2	Supplied by Furniture Vendor
500250	Messaging_Large 44x54 Frame	Signage_Large 44x54 Frame_CFAAMD38_44" x 54"	CFAAMD38		AMD	4	Supplied by Furniture Vendor
500250	Messaging_National Campaign	Signage_National Campaign_CFAAMD39_55" x 34.5"	CFAAMD39		AMD	1	Supplied by Furniture Vendor
500250	Our Community Board	Signage_Our Community, Magnetic Bezel-No TV, Oak Veneer_CFAAMD63_30" x 46"	CFAAMD63		AMD	1	Supplied by Furniture Vendor
500250	Messaging_Our Story Wall_Horizontal	Signage_Our Story Wall, Horizontal-Oak Veneer + Acrylic_CFAAMD64_35.75" x 45"	CFAAMD64		AMD	1	Supplied by Furniture Vendor
500250	Your Operator Panel	Signage_Your Operator Oak 2022 - Small, Oak Veneer_CFAAMD68_19" x 27"	CFAAMD68		AMD	1	Supplied by Furniture Vendor
500250	Brand Elements_Two Sided_Metal_44x44	44x44_9.25D	CH4444-DSIV4		Furniture Vendor	1	
500250	Brand Elements_Coca-Cola Pendant	Coke Light	Coke Light		Furniture Supplier	1	
Grand total: 247						247	

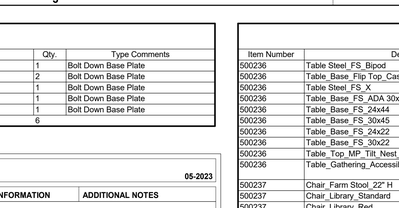


A LIBRARY CHAIR, STANDARD HT
N.T.S.

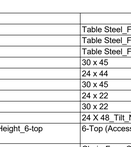


B LIBRARY CHAIR, STANDARD HT (RED)
N.T.S.

C FARM STOOL - 22" HEIGHT
N.T.S.

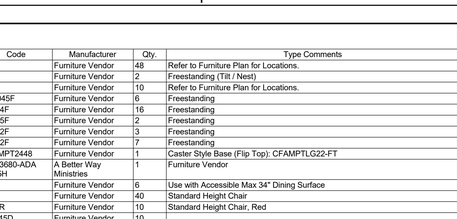


D HERITAGE BOOTH / BANQUETTE
N.T.S.

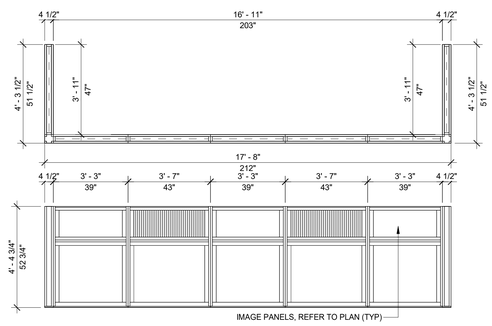


E TABLES (TYP)
N.T.S.

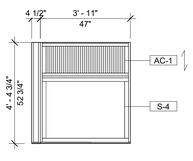
F GATHERING TABLE, 6-TOP (ACCESSIBLE)
3/8" = 1'-0"



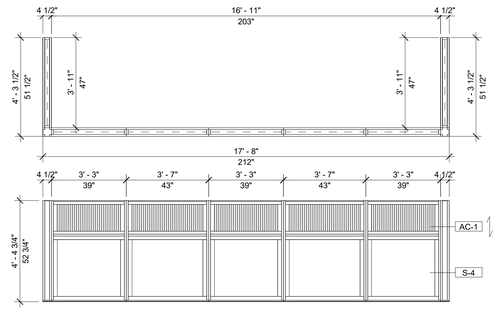
G BRAND ICON, TWO-SIDED (44" x 44")
3/8" = 1'-0"



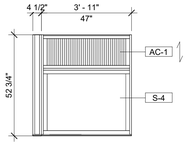
H STEEL MESSAGING LOW WALL_U-SHAPE_212"
3/8" = 1'-0"



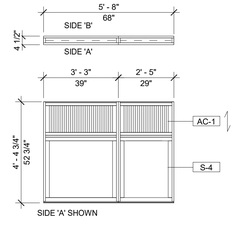
I STEEL LOW WALL_SIDE
3/8" = 1'-0"
WALL OCCURS (2) TIMES



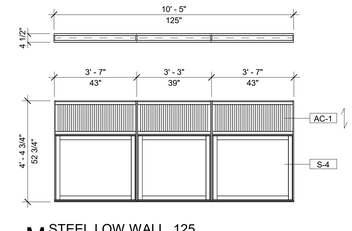
J STEEL LOW WALL_U-SHAPE_212"
3/8" = 1'-0"



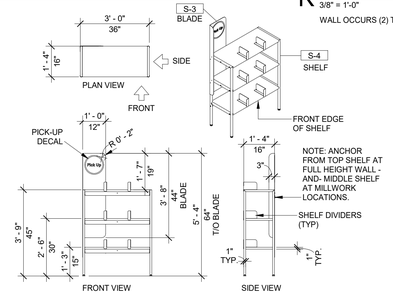
K STEEL LOW WALL-SIDE
3/8" = 1'-0"
WALL OCCURS (2) TIMES



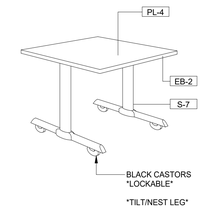
L STEEL LOW WALL_68
3/8" = 1'-0"



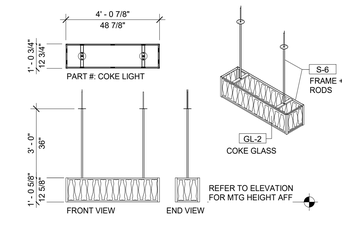
M STEEL LOW WALL_125
3/8" = 1'-0"



N PICK-UP SHELF_BTS
3/8" = 1'-0"



O MULTI-PURPOSE TABLE
N.T.S.



P COKE FIXTURE
3/8" = 1'-0"

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

FCC COMMERCIAL FURNITURE INC.
8452 OLD HWY 99 N
ROSEBURG, OR 97470 USA
T. 800.322.7328 | F. 541.673.7441 |
WWW.FCC-CREATE.COM
DESIGNED AND BUILT IN U.S.A.

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CHICK-FIL-A
CUSTER & WASHINGTON
WASHINGTON STREET
HELENA, MT 59602

FSR#05484

BUILDING TYPE / SIZE: BTS LS XPS
RELEASE: 23.09
PRINTED FOR
PERMIT SET

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
0	03-01-2024	PLAN CHECK
1	07-03-2024	PLAN CHECK - REV1
2	08-22-2025	PLAN CHECK - REV2
4	10-20-2025	PLAN CHECK - REV4

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PLANS APPROVED
PLANS TO BE ON JOB SITE AT ALL TIMES

CONSULTANT PROJECT # 24832-001
DATE 10/20/25
DRAWN BY AARON MCCRAW

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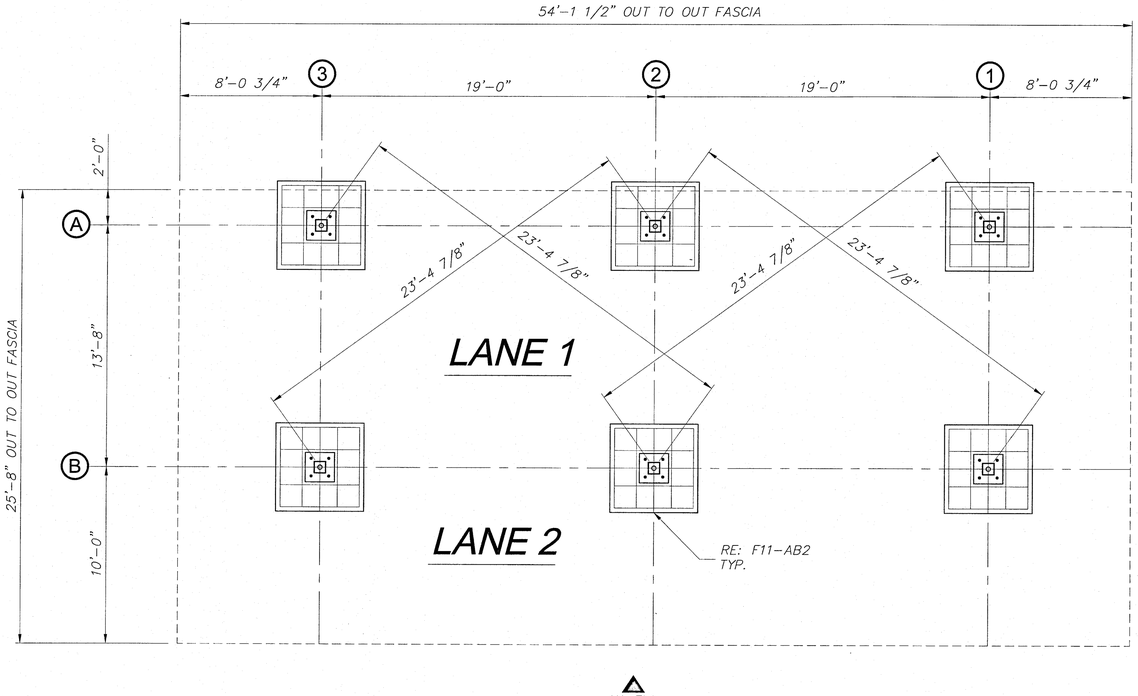
SHEET
FURNITURE PRODUCT DETAILS

SHEET NUMBER
F-702

10/17/2025 6:35:53 AM Autodesk Docs://MT_05484_Custer & Washington FSU_2023.10_FSR/05484_Custer & Washington FSU_FRN.rvt
70-LS XPS-05484-F-702-FURNITURE PRODUCT DETAILS



FI COLUMN AND FOOTING LOCATIONS

1/4" = 1'-0"

1. ALL FOUNDATION WORK BY OTHERS AND SUBJECT TO LOCAL APPROVAL.
2. THE FOUNDATION DESIGN IS BASED UPON SECTION 1807.3.2.2-IBC 2021 EDITION. THE DESIGN CRITERIA SELECTED BASED ON GEOTECHNICAL SOILS REPORT BY: TERRACON CONSULTANTS, INC, REPORT NO. C4235014, DATED APRIL 27, 2023 SITE CLASS D, SOIL BEARING CAPACITY OF 3,500 p.s.f. AND A PASSIVE SOIL PRESSURE OF 195 p.s.f. PER FOOT OF DEPTH.
3. DRILLED SHAFT FOOTINGS SHALL BE INSTALLED PER ACI STD. 336.
4. CONCRETE DESIGN AND CONSTRUCTION SHALL CONFORM TO ACI STANDARD 318-19 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE."
5. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE (F'C) AT THE END OF 28 DAYS SHALL BE 3000 PSI MIN.
6. REINFORCING STEEL SHALL BE GRADE 60 AND CONFORM TO ASTM A615 LATEST REVISION.
7. DETAILING, FABRICATION AND PLACEMENT OF REINFORCING BARS SHALL COMPLY WITH ACI 315, ACI 318 AND CRSI STANDARDS.
8. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554-GR36.
9. LANE IS NOT RESPONSIBLE FOR FOOTING POURED PRIOR TO PERMITTING.
10. FOOTINGS ARE DESIGNED TO BE CONSTRAINED AT THE TOP BY A 6" SLAB. IF THEY ARE NOT, PLEASE NOTIFY LANE SUPPLY CO.
11. POUR FOOTINGS TO SAME TOP ELEVATION.
12. USE MASTER FLOW 928 NON-SHRINK GROUT OR EQUIVALENT F'm=5000 p.s.i.
13. G.C. TO ENSURE THAT FOOTINGS DO NOT INTERFERE WITH CONTAINMENT SUMP.

A1 FOUNDATION NOTES

N.T.S.

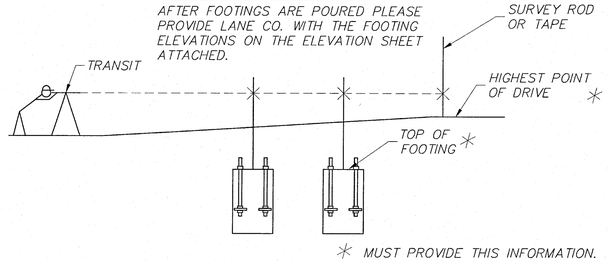
1. TOP OF ALL CANOPY FOOTINGS ARE TO BE POURED A MINIMUM OF 12" BELOW FINISHED GRADE OR AS REQUIRED BY LOCAL CODES AND ORDINANCES.
2. IT IS THE OWNERS RESPONSIBILITY TO CONVEY TO ALL CONTRACTORS THAT IT IS THEIR RESPONSIBILITY TO INSURE THAT THE SITE IS PROPERLY EXCAVATED AND GRADED. DURING CONCRETE FORMING PRIOR TO AND AFTER THE POUR, THE CONCRETE SHOULD BE CHECKED FOR PROPER ELEVATION, SQUARE AND CORRECT DIMENSIONS.
3. MEASUREMENTS FOR ANCHOR BOLTS ARE EXACT AND SHOULD BE RECHECKED TO INSURE PROPER LOCATION.
4. CORRECTION OF LOCATION, OF ELEVATION AND OF DIMENSIONAL ERRORS MUST BE MADE PRIOR TO THE ARRIVAL OF THE ERECTION CREW AND PRIOR TO THE ERECTION OF THE STRUCTURE.
5. AFTER THE FORMS HAVE BEEN REMOVED, ALL TRENCHES, HOLES AND UNEVEN SITE CONDITIONS MUST BE LEVELED TO INSURE A SAFE WORKING AND ACCESS AREA ACCEPTABLE TO LOCAL, STATE, FEDERAL AND OSHA AGENCIES.

A5 GENERAL NOTES

N.T.S.

VERY IMPORTANT:

AFTER FOOTINGS ARE POURED PLEASE PROVIDE LANE CO. WITH THE FOOTING ELEVATIONS ON THE ELEVATION SHEET ATTACHED.



* MUST PROVIDE THIS INFORMATION.

A9 FOOTING ELEVATIONS

N.T.S.

DEAD LOAD = 3 P.S.F.(DECK + LIGHTS) + WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 P.S.F.
SNOW LOAD = 30 P.S.F.
V, ULT = 116 M.P.H. EXP. C
V, ASD = 90 M.P.H. EXP. C
2021 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM = CANTILEVERED COLUMN SYSTEM-ORDINARY STEEL MOMENT FRAME
PF = 30 P.S.F., CE = 1.2, CT = 1.2, IS = 1.0
PD = DRIFT LOADS NOT CONSIDERED
W = DRIFT LOADS NOT CONSIDERED
SITE CLASS = D
SS (0.2) = 0.484
S1 (1.0) = 0.153
SDS = 0.456
SD1 = 0.234
FA = 1.413
FV = 2.294
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = D
CS = 0.365
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = A2
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS = 4.08 KIPS

A14 DESIGN LOADS

N.T.S.

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

LANE SUPPLY, INC.
120 Fairview
Arlington, TX. 76010
(817) 261-9116

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MONTANA
MICHAEL WINSTON CUSTER
No. 16168PE
LICENSED PROFESSIONAL ENGINEER
10-27-24

CHICK-FIL-A
CUSTER & WASHINGTON FSU
2770 N. WASHINGTON ST.
HELENA, MT 59602

FSR# 05484

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
2	07/16/2024	ISSUED FOR BID
1	10/24/2024	PLAN CHECK

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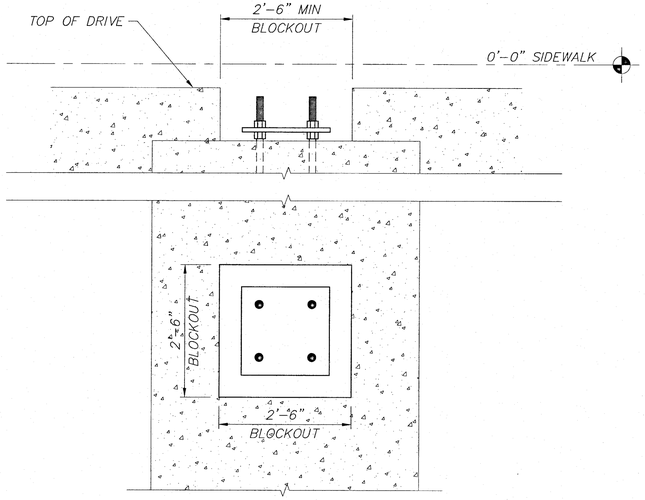
SHEET
CANOPY FOOTING LOCATIONS
SHEET NUMBER
F2FC-1

ABI OF 2

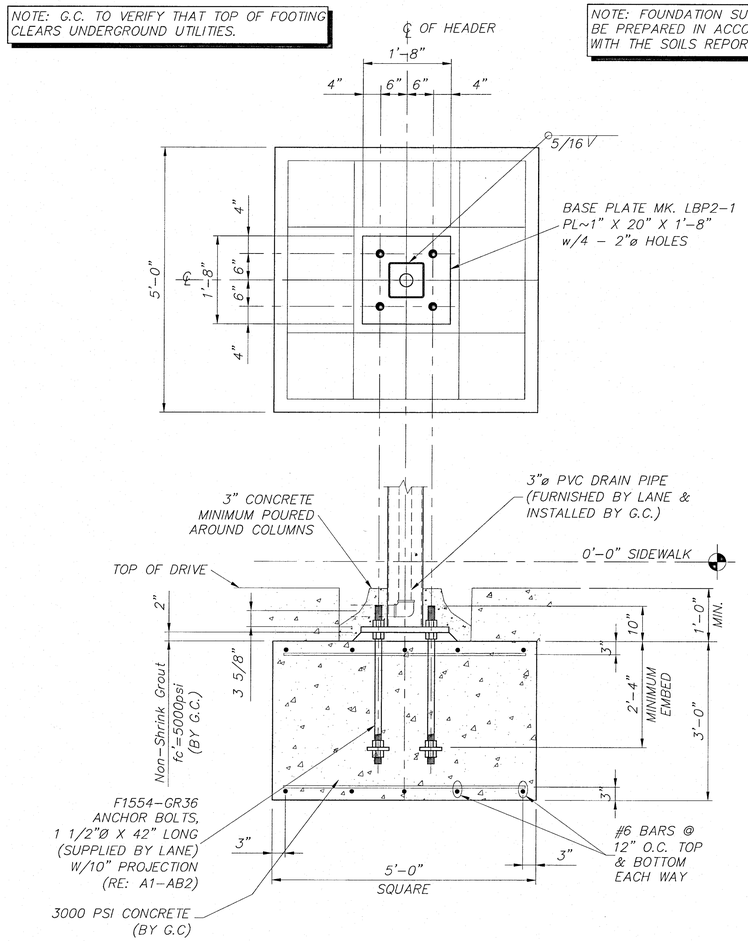


F1	NOT USED
.	.

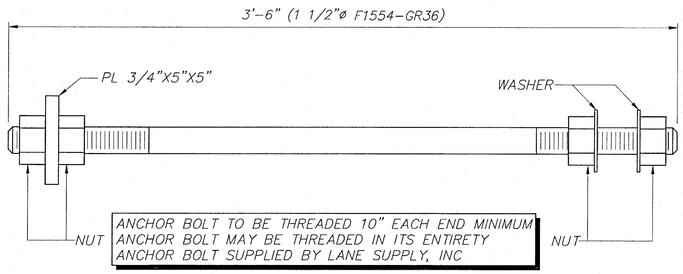
F6	BLOCKOUT FOR ANCHOR BOLTS
N.T.S	.

NOTE: G.C. TO VERIFY THAT TOP OF FOOTING CLEARS UNDERGROUND UTILITIES.

NOTE: FOUNDATION SUBGRADE TO BE PREPARED IN ACCORDANCE WITH THE SOILS REPORT



F11	SPREAD FOOTING OPTION
N.T.S	F1-AB1



ANCHOR BOLT TO BE THREADED 10" EACH END MINIMUM
ANCHOR BOLT MAY BE THREADED IN ITS ENTIRETY
ANCHOR BOLT SUPPLIED BY LANE SUPPLY, INC

A1	ANCHOR BOLT DETAIL
N.T.S.	F11-AB2

A6	NOT USED
.	.

NOTE:
FOUNDATION DESIGN BASED ON GEOTECHNICAL SOILS REPORT
REPORT BY: TERRACON CONSULTANTS, INC
PROJECT NO. C4235014
DATED: APRIL 27, 2023

A10	GEOTECHNICAL SOILS REPORT
N.T.S.	.

DEAD LOAD = 3 P.S.F.(DECK + LIGHTS) +
WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 P.S.F.
SNOW LOAD = 30 P.S.F.
V, ULT = 116 M.P.H. EXP. C
V, ASD = 90 M.P.H. EXP. C
2021 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM =
CANTILEVERED COLUMN SYSTEM-
ORDINARY STEEL MOMENT FRAME
PF = 30 P.S.F., CE = 1.2, CT = 1.2, IS = 1.0
PD = DRIFT LOADS NOT CONSIDERED
W = DRIFT LOADS NOT CONSIDERED
SITE CLASS = D
SS (0.2) = 0.484
S1 (1.0) = 0.153
SDS = 0.456
SD1 = 0.234
FA = 1.413
FV = 2.294
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = D
CS = 0.365
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = A2
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS = 4.08 KIPS

A14	DESIGN LOADS
N.T.S.	.

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

LANE SUPPLY, INC.
120 Fairview
Arlington, TX. 76010
(817) 261-9116

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MONTANA
MICHAEL WINSTON CUSTER
No. 16168PE
LICENSED PROFESSIONAL ENGINEER
10-27-23

CHICK-FIL-A
CUSTER & WASHINGTON FSU
2770 N. WASHINGTON ST.
HELENA, MT 59602

FSR# 05484

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
2	07/16/2024	ISSUED FOR BID
1	02/01/2024	PLAN CHECK

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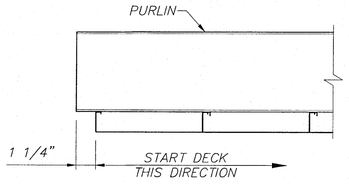
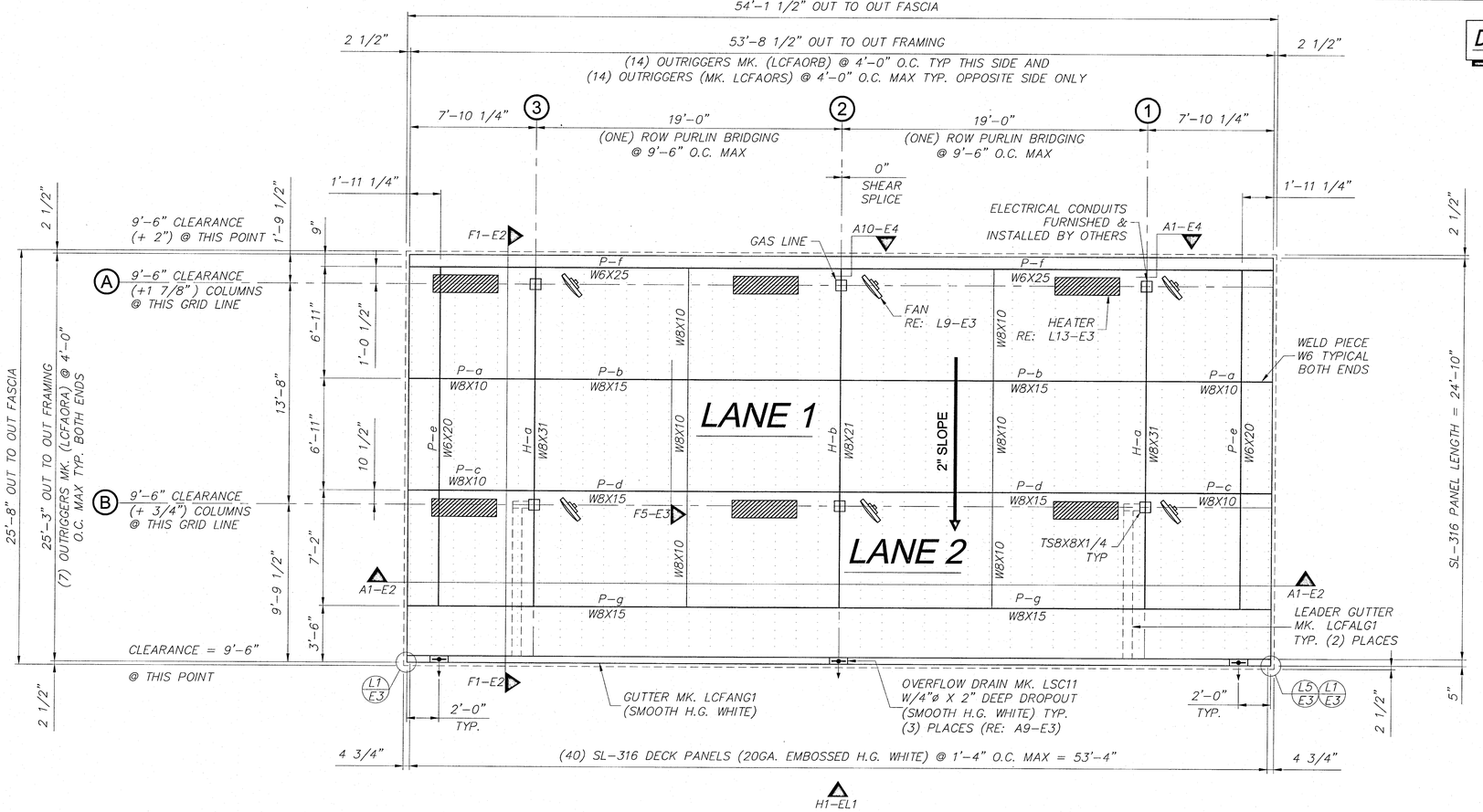
SHEET
CANOPY FOOTINGS

SHEET NUMBER
F2FC-2
AB2 OF 2



NOTE: DOUBLE CLIP ANGLES ALL BEAM CONNECTIONS

DOUBLE DECK CLIP



LANE 1 ENTRANCE

LANE 2 ENTRANCE

LANE 1 EXIT

LANE 2 EXIT

F1 CANOPY FRAMING LAYOUT

1/4" = 1'-0"

STRUCTURAL STEEL SHALL MEET THE AISC 2017 SPECIFICATION 15TH EDITION AND THE AISC CODE OF STANDARD PRACTICE, CURRENT VERSION.
COLUMNS TO BE ASTM A500, GRADE B
BOLTS TO BE ASTM A325 OR ASTM F1852 (A325-TC)
INSTALLATION OF BOLTS SHALL BE BROUGHT TO A SNUG TIGHT CONDITION-DEFINED AS THE CONDITION THAT EXISTS WHEN ALL OF THE PLIES IN A CONNECTION HAVE BEEN PULLED INTO FIRM CONTACT BY THE BOLTS IN THE JOINT AND ALL OF THE BOLTS IN THE JOINT HAVE BEEN TIGHTENED SUFFICIENTLY TO PREVENT THE REMOVAL OF THE NUTS WITHOUT THE USE OF A WRENCH.

WIDE FLANGE BEAMS TO BE ASTM A992
ANGLES, & PLATES TO BE ASTM A36
REINFORCING STEEL TO BE ASTM 615, GRADE 60
DECK PANELS TO BE ASTM 653, GRADE C MINIMUM
WELD FILLER METALS SHALL MEET THE MINIMUM CHARPY V-NOTCH REQUIREMENT OF 20 FT-LB AT 0°F WELDING SHALL MEET THE REQUIREMENTS OF THE AWS FOR BUILDING CONSTRUCTION USING E70XX ELECTRODES
ALL STRUCTURAL STEEL TO BE PAINTED WITH ONE SHOP COAT PRIMER
CANOPY FABRICATOR SHALL BE AISC CERTIFIED
LANE SUPPLY INC. IS AN AISC CERTIFIED FABRICATOR (AISC # C-00026892)

A1 GENERAL NOTES

N.T.S.

1. REFERENCE SEALANT SCHEDULE FOR ALL APPLICATIONS
2. SEAL ALL JOINTS WITH A SMOOTH, CLEAN APPLICATION
3. APPLY CAULK CLEAR AROUND THE COLUMNS ON THE TOP SIDE OF THE DECK AFTER BOTTOM SIDE HAS BEEN CAULKED.
4. DECK PANELS AND TRIM WILL BE WIPED CLEAN AFTER INSTALLATION
5. ALL TRASH AND EXTRA MATERIALS WILL BE HAULED OFF JOBSITE
6. CHECK WITH GENERAL CONTRACTOR FOR DRAIN ORIENTATION
7. FURNISH & INSTALL LANE DESIGNED AND ENGINEERED "HUNG" DECK
8. FURNISH & INSTALL SUPPORT FRAMING FOR (6) FANS & (6) HEATERS (FANS & HEATERS FURNISHED & INSTALLED BY OTHERS.)
9. FURNISH & INSTALL (6) LSI CRUS-CS-LED-LW-30-UE-WHT CANOPY DECK LIGHTS.
10. FURNISH & INSTALL SHEET METAL FASCIA "CHICK-FIL-A BRONZE".

SEALANT SCHEDULE

SEALANT	COLOR	APPLICATION
SOUDASEAL FC	WHITE	DECK TO COLUMN @ BOTTOM
SOUDASEAL FC	WHITE	GUTTER JOINTS
SOUDASEAL FC	WHITE	DECK TO COLUMN @ TOP
SOUDASEAL FC	WHITE	SEAL @ OVERFLOW DROPOUTS
SOUDASEAL FC	WHITE	SEAL BOLTS @ HEATER SUPPORTS
SOUDASEAL FC	WHITE	DAM UP DECK @ DECK CLOSURE
SOUDASEAL FC	WHITE	SEAL FASCIA @ DECK CLOSURE

A6 ERECTOR'S NOTES

N.T.S.

A11 NOT USED

A14 DESIGN LOADS

N.T.S.

DEAD LOAD = 3 P.S.F.(DECK + LIGHTS) + WEIGHT OF STRUCTURAL COMPONENTS
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V, ASD = 90 M.P.H. EXP. C
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IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = D
CS = 0.365
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = A2
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS = 4.08 KIPS

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MONTANA
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LICENSED PROFESSIONAL ENGINEER
10-27-25

CHICK-FIL-A
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HELENA, MT 59602

FSR# 05484

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
2	07/16/2024	ISSUED FOR BID
4	10/20/2025	PLAN CHECK

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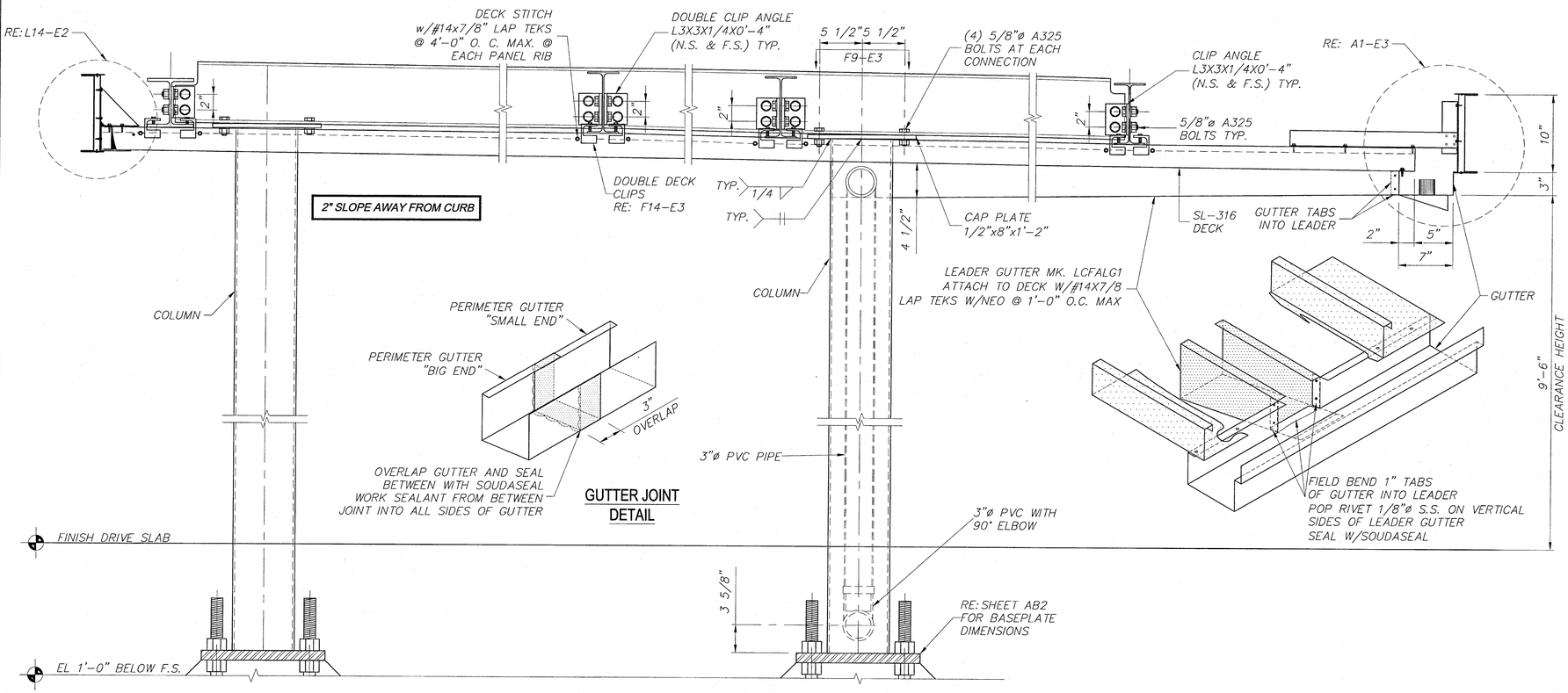
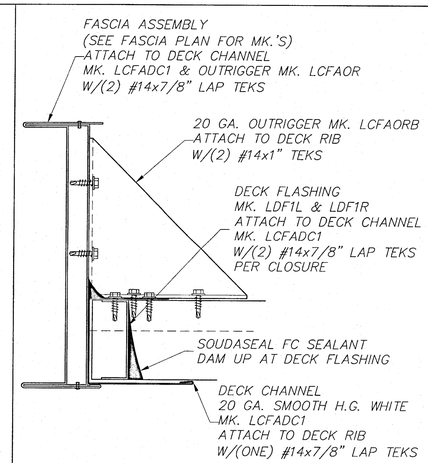
SHEET
CANOPY FRAMING PLAN
SHEET NUMBER
F2FC-3

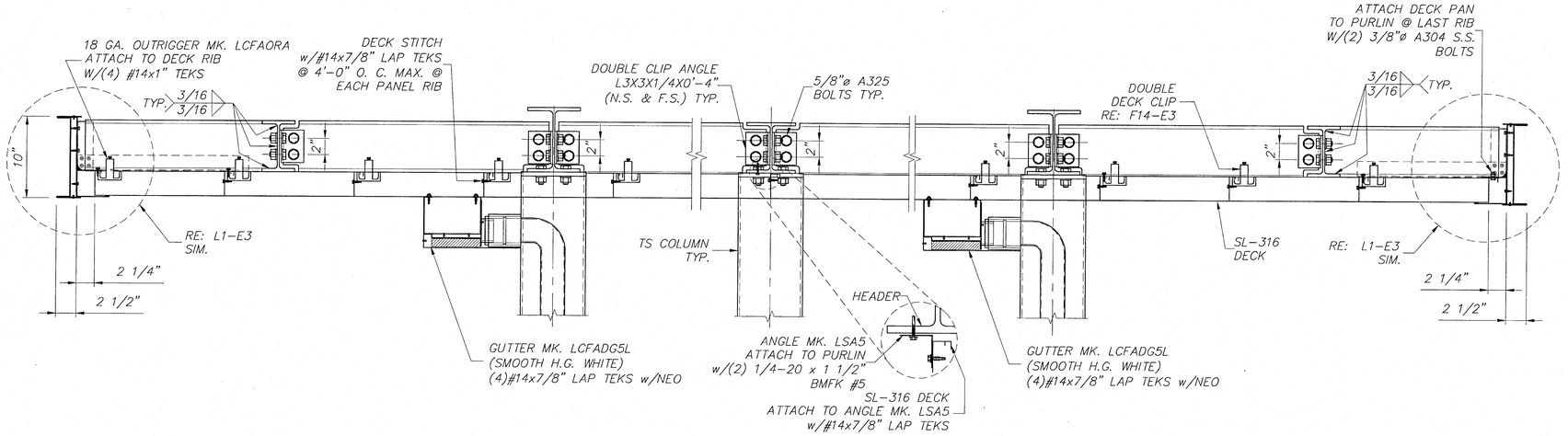


F1	CANOPY SECTION
1 1/2" = 1'–0"	F1-E1



L14	SECTION AT FASCIA
N.T.S.	F1-E2

F14	NOT USED
.	.



A1	CANOPY SECTION
1 1/2" = 1'–0"	F1-E1

A14	DESIGN LOADS
N.T.S.	.

DEAD LOAD = 3 P.S.F.(DECK + LIGHTS) + WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 P.S.F.
SNOW LOAD = 30 P.S.F.
V, ULT = 116 M.P.H. EXP. C
V, ASD = 90 M.P.H. EXP. C
2021 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM = CANTILEVERED COLUMN SYSTEM–ORDINARY STEEL MOMENT FRAME
PF = 30 P.S.F., CE = 1.2, CT = 1.2, IS = 1.0
PD = DRIFT LOADS NOT CONSIDERED
W = DRIFT LOADS NOT CONSIDERED
SITE CLASS = D
SS (0.2) = 0.484
S1 (1.0) = 0.153
SDS = 0.456
SD1 = 0.234
FA = 1.413
FV = 2.294
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = D
CS = 0.365
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = A2
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS = 4.08 KIPS

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

LANE SUPPLY, INC.
120 Fairview
Arlington, TX. 76010
(817) 261-9116

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MONTANA
MICHAEL WINSTON CUSTER
No. 16168PE
LICENSED PROFESSIONAL ENGINEER
10-27-24

CHICK-FIL-A
CUSTER & WASHINGTON FSU
2770 N. WASHINGTON ST.
HELENA, MT 59602

FSR# 05484

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NO.	DATE	DESCRIPTION
2	07/16/2024	ISSUED FOR BID
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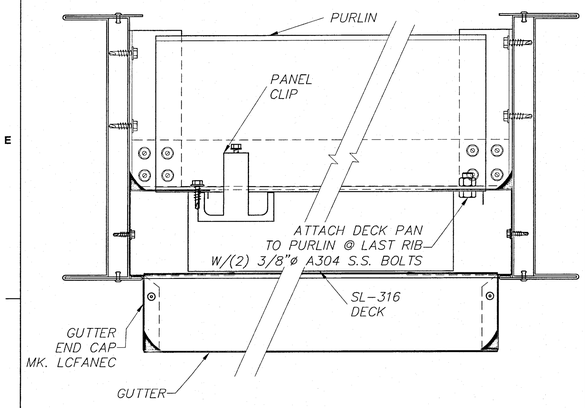
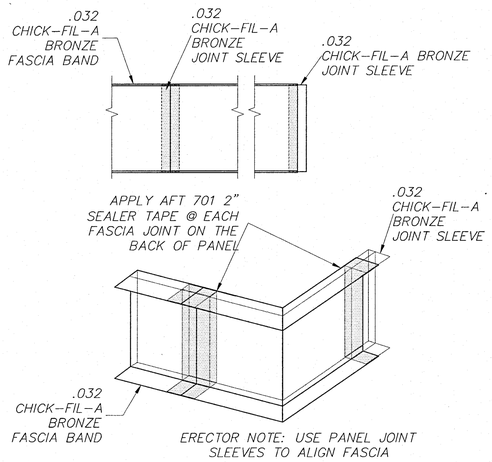
SHEET
CANOPY SECTIONS
SHEET NUMBER
F2FC-4



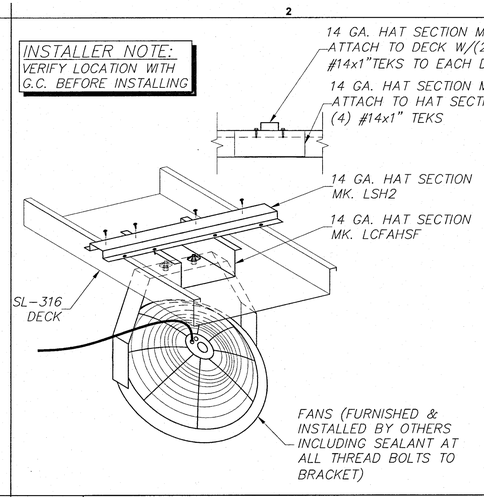
L1 DETAIL AT SIDES OF CANOPY

N.T.S. | AI-E2, FI-EI



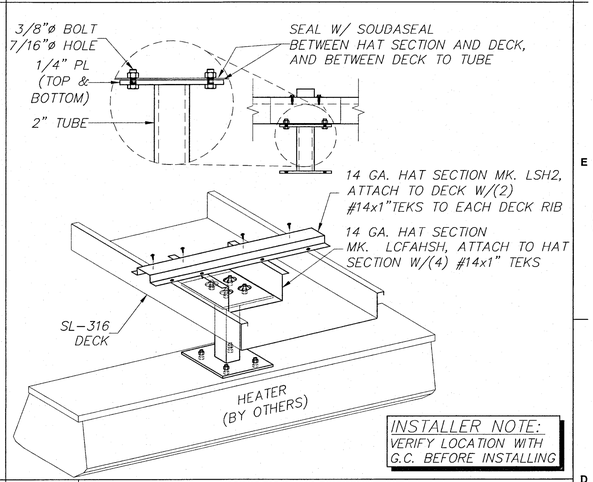
L5 DETAIL AT FASCIA CORNER AND SPLICE

N.T.S. | FI-EI



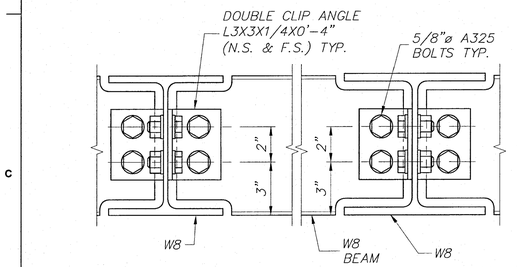
L9 SECTION AT FAN SUPPORT

N.T.S. | FI-EI



LI3 SECTION AT HEATER SUPPORT

N.T.S. | FI-EI

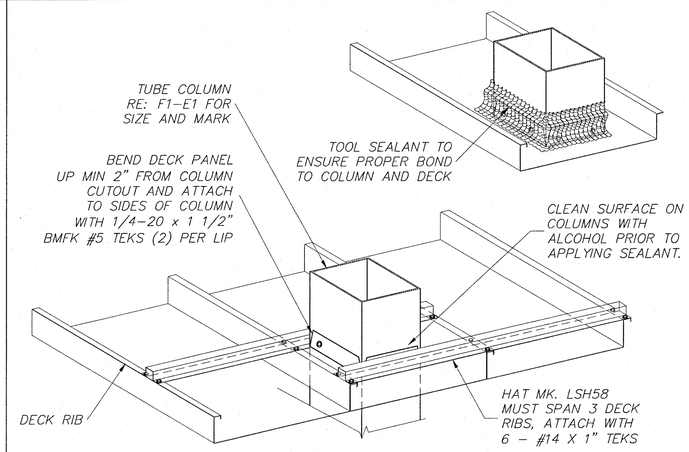


FI SECTION AT PURLIN BRIDGING

N.T.S. | FI-EI

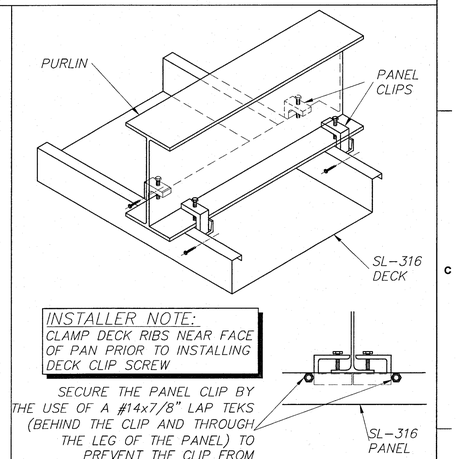
F5 NOT USED

.



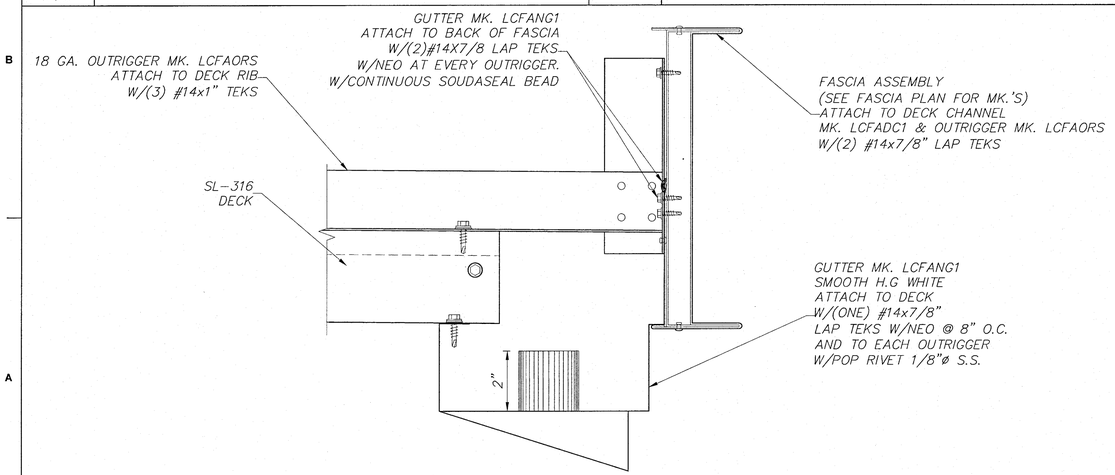
F9 DETAIL AT DECK SUPPORT

1 1/2" = 1'-0" | FI-E2



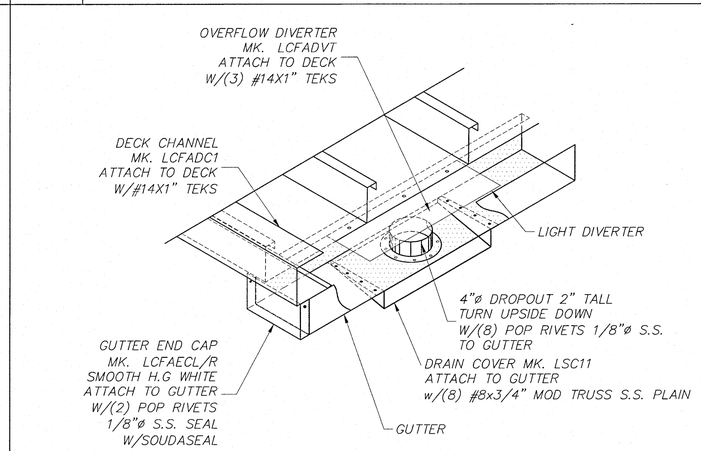
FI4 DETAIL AT DECK CLIP

N.T.S. | AI-E2, FI-E2



AI DETAIL AT END OF CANOPY

N.T.S. | FI-EI, FI-E2



A9 DETAIL OF OVERFLOW DRAIN

N.T.S. | FI-EI

DEAD LOAD = 3 P.S.F.(DECK + LIGHTS) + WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 P.S.F.
SNOW LOAD = 30 P.S.F.
V, ULT = 116 M.P.H. EXP. C
V, ASD = 90 M.P.H. EXP. C
2021 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM = CANTILEVERED COLUMN SYSTEM-ORDINARY STEEL MOMENT FRAME
PF = 30 P.S.F., CE = 1.2, CT = 1.2, IS = 1.0
PD = DRIFT LOADS NOT CONSIDERED
W = DRIFT LOADS NOT CONSIDERED
SITE CLASS = D
SS (0.2) = 0.484
S1 (1.0) = 0.153
SDS = 0.456
SD1 = 0.234
FA = 1.413
FV = 2.294
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = D
CS = 0.365
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = A2
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS = 4.08 KIPS

AI4 DESIGN LOADS

N.T.S. | .

Chick-fil-A
5200 Buffington Road
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120 Fairview
Arlington, TX. 76010
(817) 261-9116

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MONTANA
MICHAEL WINSTON CUSTER
No. 16168PE
LICENSED PROFESSIONAL ENGINEER

CHICK-FIL-A
CUSTER & WASHINGTON FSU
2770 N. WASHINGTON ST.
HELENA, MT 59602

FSR# 05484

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
2	07/16/2024	ISSUED FOR BID
4	10/08/2024	PLAN CHECK

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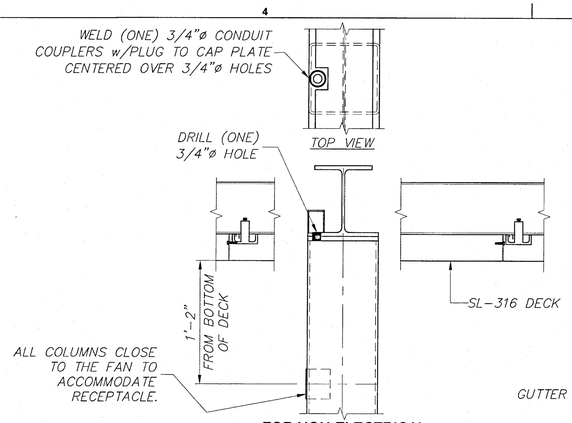
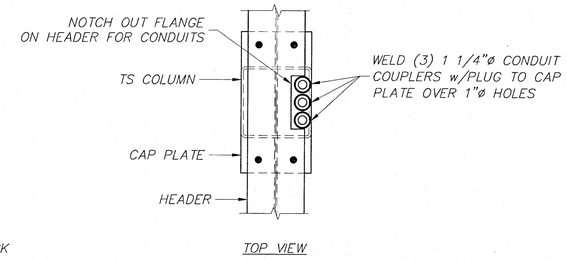
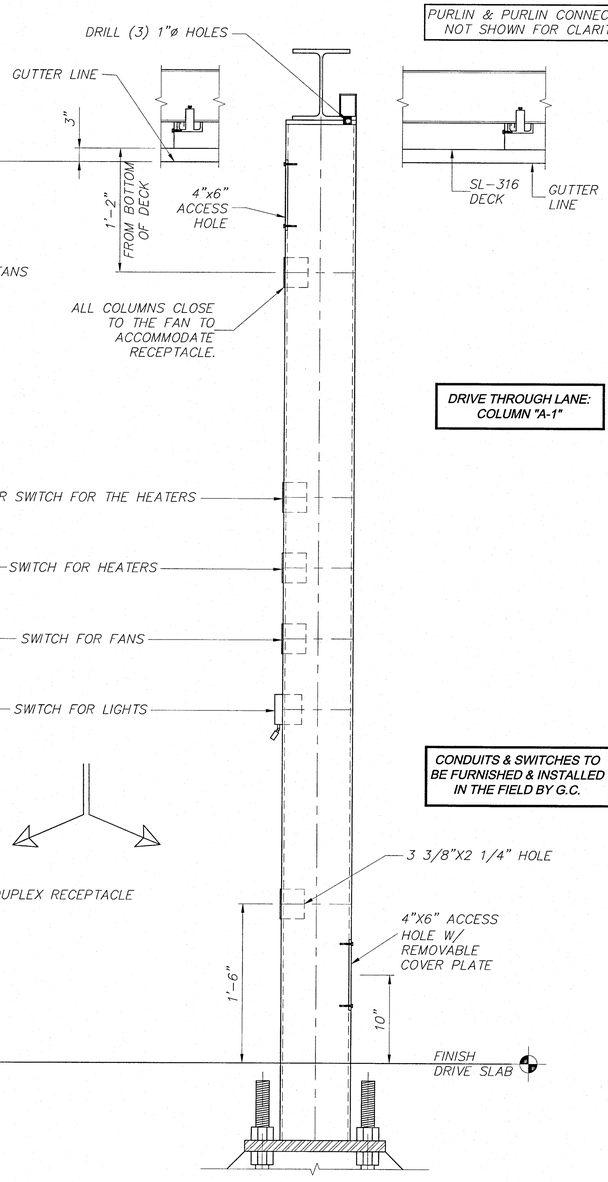
SHEET
CANOPY SECTIONS
SHEET NUMBER
F2FC-5
E3 OF 4



FOR NON-ELECTRICAL COLUMNS WITH FANS



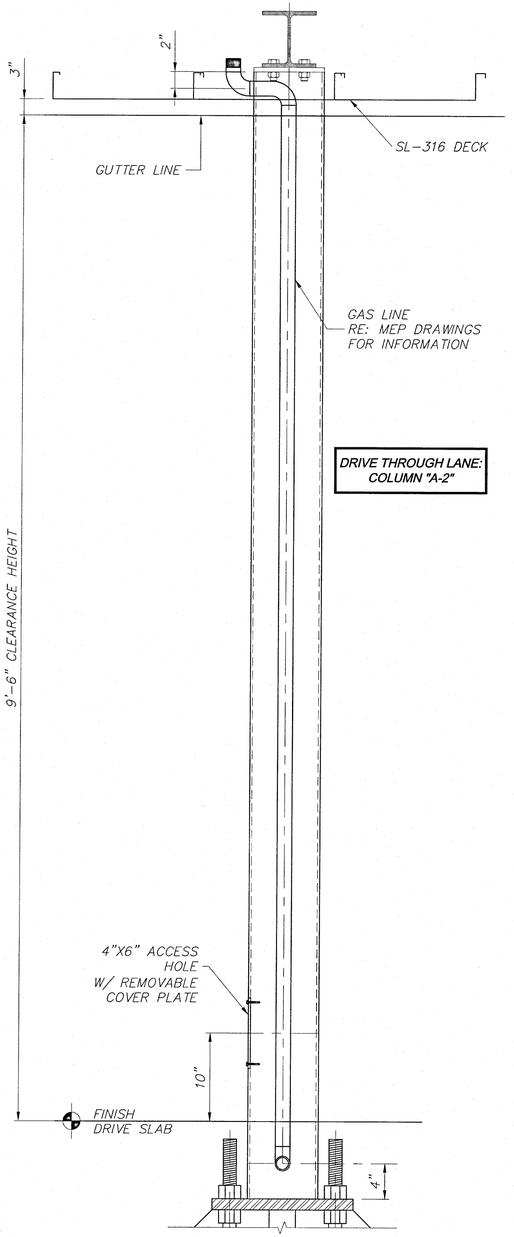


PURLIN & PURLIN CONNECTION NOT SHOWN FOR CLARITY

DRIVE THROUGH LANE: COLUMN "A-1"

CONDUITS & SWITCHES TO BE FURNISHED & INSTALLED IN THE FIELD BY G.C.

A1	SECTION @ COLUMN "A-1"
1 1/2" = 1'-0"	F1-E1



DRIVE THROUGH LANE: COLUMN "A-2"

A10	SECTION @ COLUMN "A-2"
1 1/2" = 1'-0"	F1-E1

F14	NOT USED
.	.

DEAD LOAD = 3 P.S.F.(DECK + LIGHTS) + WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 P.S.F.
SNOW LOAD = 30 P.S.F.
V, ULT = 116 M.P.H. EXP. C
V, ASD = 90 M.P.H. EXP. C
2021 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM = CANTILEVERED COLUMN SYSTEM-ORDINARY STEEL MOMENT FRAME
PF = 30 P.S.F., CE = 1.2, CT = 1.2, IS = 1.0
PD = DRIFT LOADS NOT CONSIDERED
W = DRIFT LOADS NOT CONSIDERED
SITE CLASS = D
SS (0.2) = 0.484
S1 (1.0) = 0.153
SDS = 0.456
SD1 = 0.234
FA = 1.413
FV = 2.294
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = D
CS = 0.365
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = A2
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS = 4.08 KIPS

A14	DESIGN LOADS
N.T.S.	.

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

LANE SUPPLY, INC.
120 Fairview
Arlington, TX. 76010
(817) 261-9116

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MONTANA
MICHAEL WINSTON CUSTER
No. 16168PE
LICENSED PROFESSIONAL ENGINEER
10/27/25

CHICK-FIL-A
CUSTER & WASHINGTON FSU
2770 N. WASHINGTON ST.
HELENA, MT 59602

FSR# 05484

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	07/16/2024	ISSUED FOR BID
2	10/20/2025	PLAN CHECK

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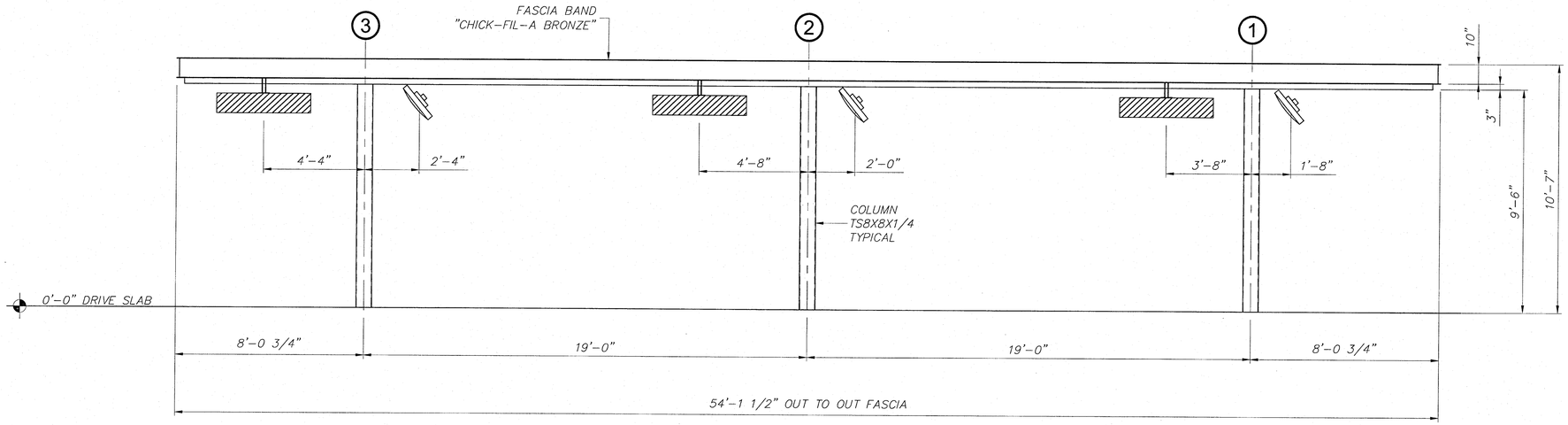
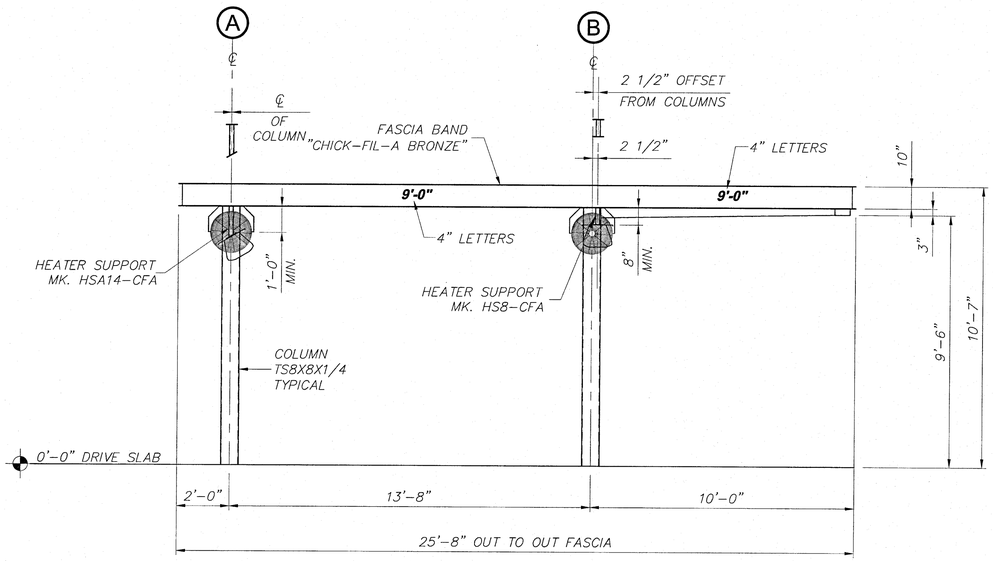
SHEET
CANOPY SECTIONS
SHEET NUMBER
F2FC-6
E4 OF 4



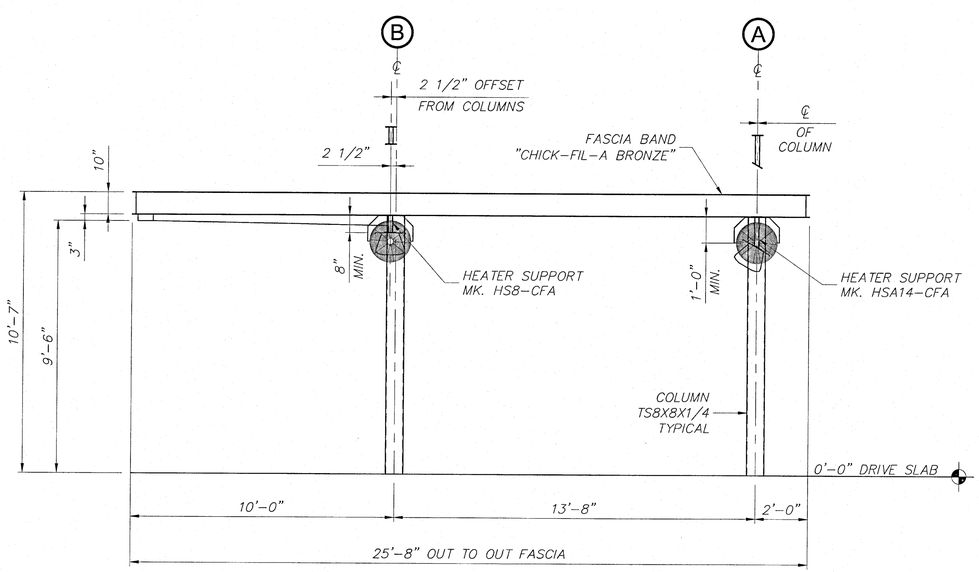
HI | CANOPY SIDE ELEVATION

3/8" = 1'-0" | FI-ABI, FI-EI, FI-LLI



AI | CANOPY END ELEVATION

3/8" = 1'-0" | FI-ABI, FI-EI, FI-LLI



A9 | CANOPY END ELEVATION

3/8" = 1'-0" | FI-ABI, FI-EI, FI-LLI

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

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120 Fairview
Arlington, TX. 76010
(817) 261-9116

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MICHAEL WINSTON CUSTER
No. 16168PE
LICENSED PROFESSIONAL ENGINEER
10/27/24

CHICK-FIL-A

CUSTER & WASHINGTON FSU
2770 N. WASHINGTON ST.
HELENA, MT 59602 ⚠2

FSR# 05484

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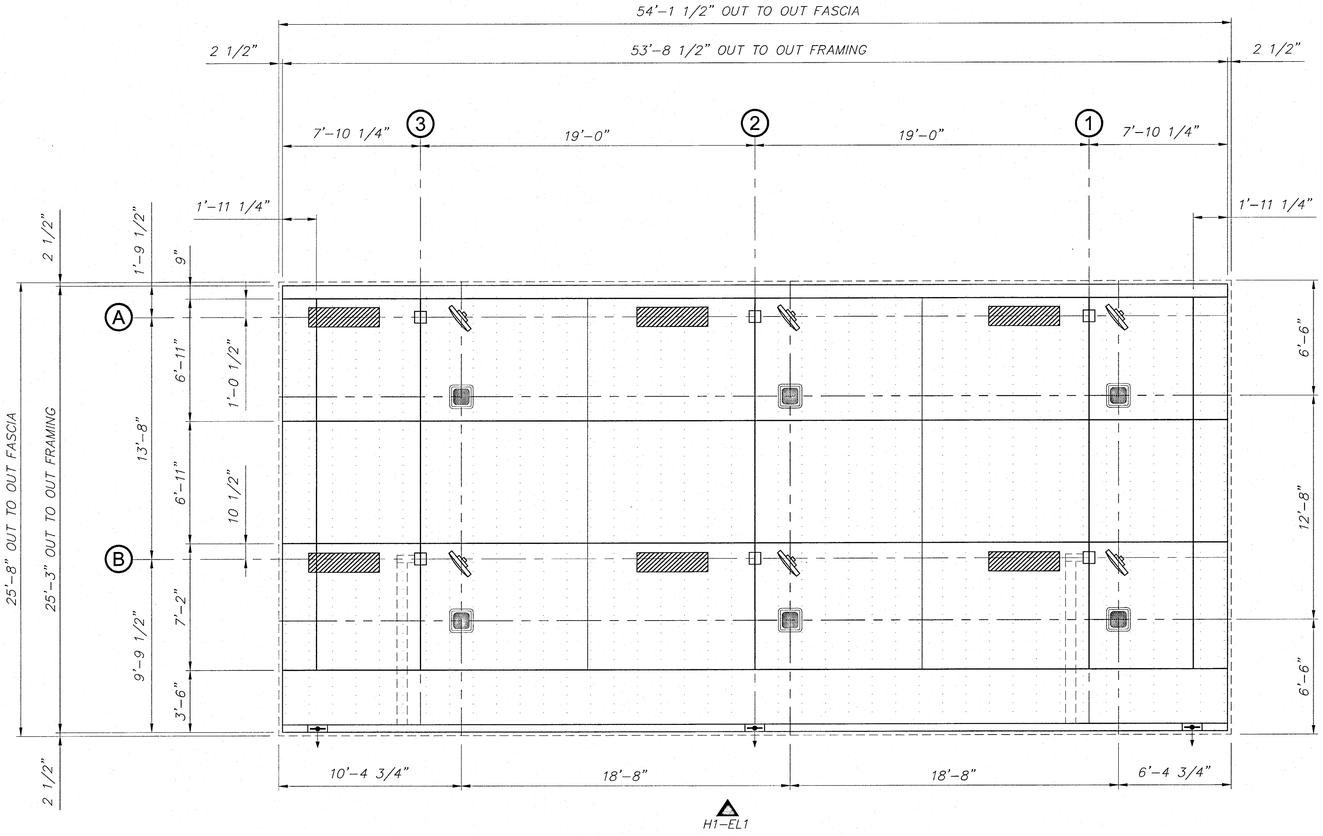
SHEET
CANOPY ELEVATION PLAN

SHEET NUMBER
F2FC-7

ELI OF I



FI CANOPY LIGHT LAYOUT

1/4" = 1'-0"

1. THE LIGHT LAYOUT IS A SUGGESTED PLAN ONLY. IT IS PROVIDED BY LANE AS A SERVICE TO ITS CUSTOMER AND IS TO BE USED AS A GUIDE ONLY.
2. THESE LIGHT FIXTURES NEED TO BE CENTERED IN DECK PANELS.
3. ENSURE ADEQUATE CLEARANCE FROM STRUCTURAL MEMBERS PRIOR TO CUTTING DECK.
4. INSTALLATION OF FIXTURES TO BE DONE IN ACCORDANCE WITH MANUFACTURES INSTRUCTIONS AND RECOMMENDATIONS.
5. IF LIGHTS INTERFERE WITH LEADER GUTTERS MOVE ROW LIGHTS TO THE NEXT DECK.

LEGEND:

INDICATES LSI CRUS-SC-LED-LW-30-CW-UE-WHT CANOPY DECK LIGHTS.

INDICATES DECK STITCHING.

MOUNTED FANS/HEATERS (BY OTHERS) RE: SHEET E3 FOR MOUNTING SUPPORT

INDICATES MOUNTED FAN

INDICATES MOUNTED HEATER

A1 GENERAL NOTES

N.T.S.

A6 NOT USED

A10 NOT USED

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

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HELENA, MT 59602

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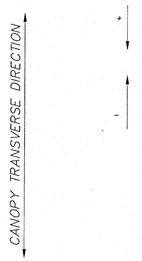
SHEET
CANOPY LIGHT LAYOUT
SHEET NUMBER
F2FC-8

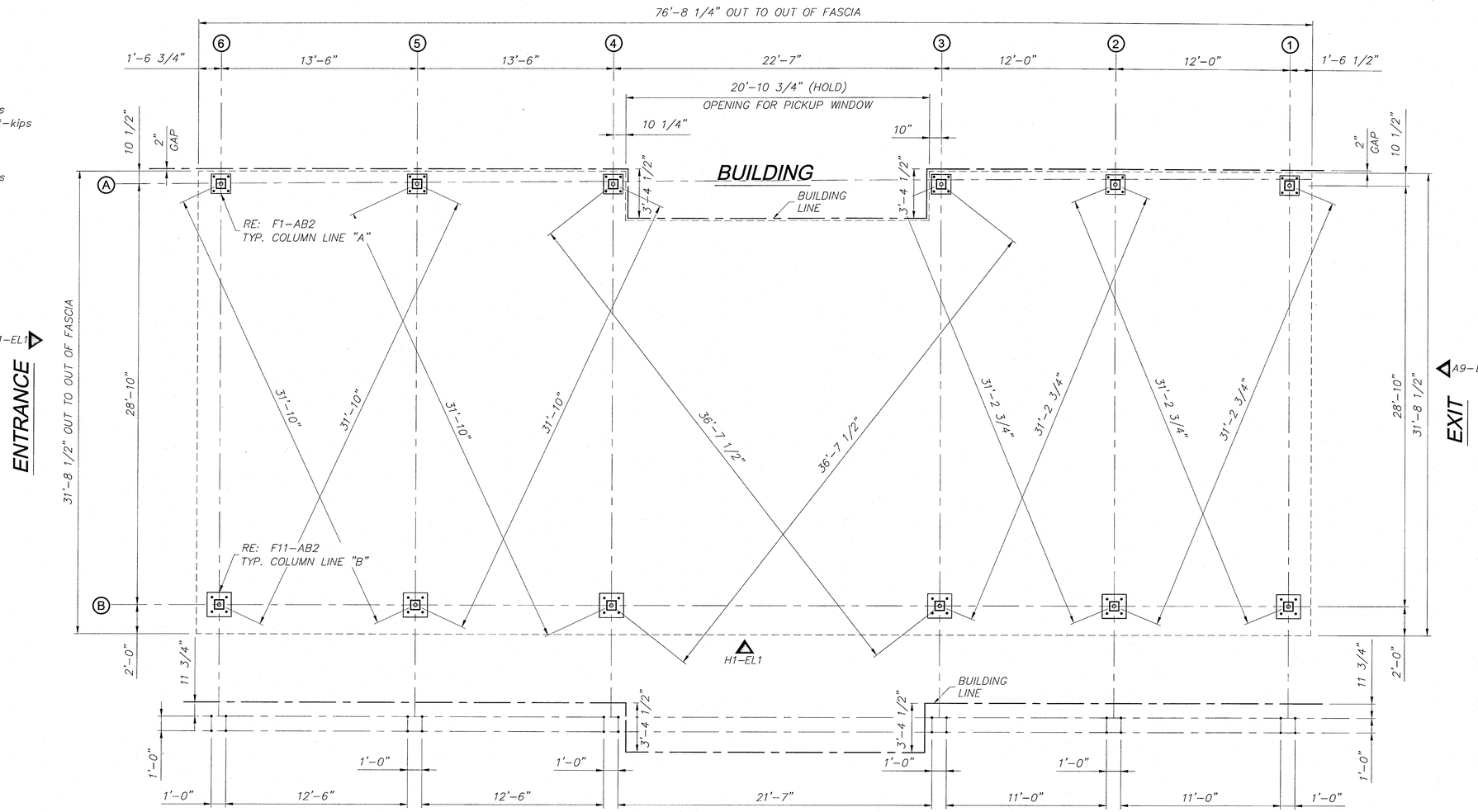
CANOPY LONGITUDINAL DIRECTION

LOADS PRESENTED ARE ASD LOADS WITH FACTOR OF 1.0, EXCEPT WIND FACTORED WITH 0.6

COLUMN DESIGN LOADS :
DEAD LOAD = 3.00 kips
LIVE LOAD = 9.25 kips
WIND LOAD = -4.25 kips
TRANSVERSE BASE MOMENT WIND Mw = +/- 5.00 ft-kips
BASE MOMENT SEISMIC BOTH DIRECTIONS Ms = +/- 11.25 ft-kips
Mdl(Nod) = 0.29 ft-kips
Mll(nod) = 0.91 ft-kips
TRANSVERSE BASE SHEAR WIND = +/- 0.47 kips
BASE SHEAR SEISMIC BOTH DIRECTIONS = +/- 1.05 kips

VERTICAL SIGN CONVENTION





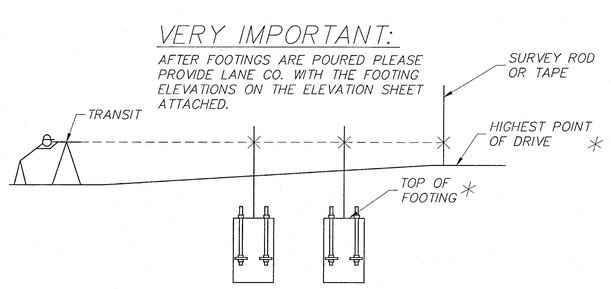
FI	COLUMN AND FOOTING LOCATIONS ⚠1
1/4" = 1'-0"	.

1. ALL FOUNDATION WORK BY OTHERS AND SUBJECT TO LOCAL APPROVAL.
2. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554-GR36.
3. LANE IS NOT RESPONSIBLE FOR FOOTING POURED PRIOR TO PERMITTING.
4. POUR FOOTINGS TO SAME TOP ELEVATION.
5. USE MASTER FLOW 928 NON-SHRINK GROUT OR EQUIVALENT F'm=5000 p.s.i.
6. G.C. TO ENSURE THAT FOOTINGS DO NOT INTERFERE WITH UNDERGROUND UTILITIES

1. TOP OF ALL CANOPY FOOTINGS ARE TO BE POURED A MINIMUM OF 24" BELOW FINISHED GRADE OR AS REQUIRED BY LOCAL CODES AND ORDINANCES.
2. IT IS THE OWNERS RESPONSIBILITY TO CONVEY TO ALL CONTRACTORS THAT IT IS THEIR RESPONSIBILITY TO INSURE THAT THE SITE IS PROPERLY EXCAVATED AND GRADED. DURING CONCRETE FORMING PRIOR TO AND AFTER THE POUR, THE CONCRETE SHOULD BE CHECKED FOR PROPER ELEVATION, SQUARE AND CORRECT DIMENSIONS.
3. MEASUREMENTS FOR ANCHOR BOLTS ARE EXACT AND SHOULD BE RECHECKED TO INSURE PROPER LOCATION.
4. CORRECTION OF LOCATION, OF ELEVATION AND OF DIMENSIONAL ERRORS MUST BE MADE PRIOR TO THE ARRIVAL OF THE ERECTION CREW AND PRIOR TO THE ERECTION OF THE STRUCTURE.
5. AFTER THE FORMS HAVE BEEN REMOVED, ALL TRENCHES, HOLES AND UNEVEN SITE CONDITIONS MUST BE LEVELED TO INSURE A SAFE WORKING AND ACCESS AREA ACCEPTABLE TO LOCAL, STATE, FEDERAL AND OSHA AGENCIES.

VERY IMPORTANT:

AFTER FOOTINGS ARE POURED PLEASE PROVIDE LANE CO. WITH THE FOOTING ELEVATIONS ON THE ELEVATION SHEET ATTACHED.



* MUST PROVIDE THIS INFORMATION.

DEAD LOAD = 3 P.S.F.(DECK + LIGHTS) + WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 P.S.F.
SNOW LOAD = 30 P.S.F.
V, ULT = 116 M.P.H. EXP. C
V, ASD = 90 M.P.H. EXP. C
2021 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM = CANTILEVERED COLUMN SYSTEM-ORDINARY STEEL MOMENT FRAME
PF = 30 P.S.F., CE = 1.2, CT = 1.2, IS = 1.0
PD = 25.81 P.S.F.
W = 5.77 FT
SITE CLASS = D
SS (0.2) = 0.484
S1 (1.0) = 0.153
SDS = 0.456
SD1 = 0.234
FA = 1.413
FV = 2.294
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = D
CS = 0.365
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = A2
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS = 8.94 KIPS

A1	FOUNDATION NOTES	A5	GENERAL NOTES	A9	FOOTING ELEVATIONS	A14	DESIGN LOADS ⚠1
N.T.S.	.	N.T.S.	.	N.T.S.	.	N.T.S.	.

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

LANE SUPPLY, INC.
120 Fairview
Arlington, TX. 76010
(817) 261-9116

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MONTANA
MICHAEL WINSTON CUSTER
No. 16168PE
LICENSED PROFESSIONAL ENGINEER

CHICK-FIL-A
CUSTER & WASHINGTON FSU
2770 N. WASHINGTON ST.
HELENA, MT 59602 ⚠1

FSR# 05484

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
⚠1	07/11/2024	PLAN CHECK
⚠2	07/16/2024	ISSUE FOR BID
⚠3	07/25/2024	PLAN CHECK

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JOB NO. SSC: 77009
PROJECT STATUS: ISSUED FOR PERMIT
DATE 02/01/2024
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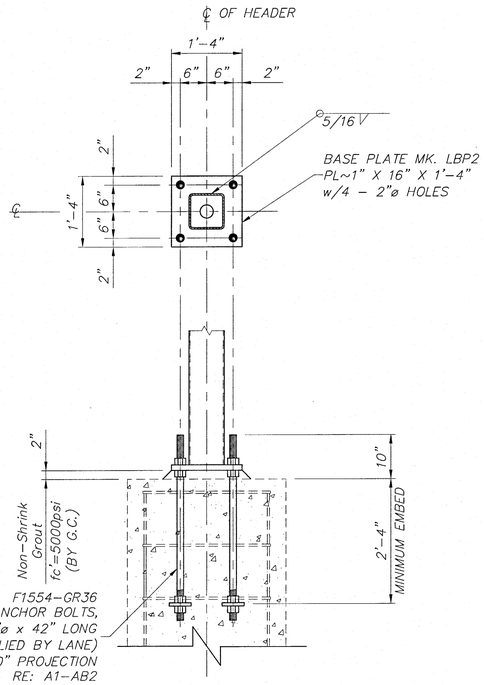
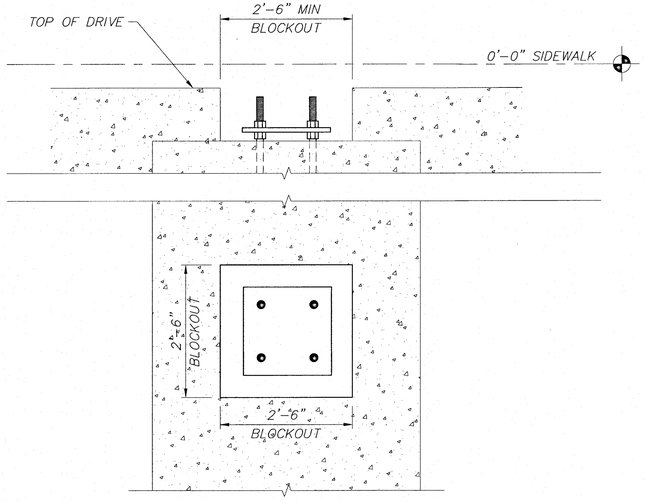
SHEET
CANOPY FOOTING LOCATIONS
SHEET NUMBER
OMD-I
ABI OF 2

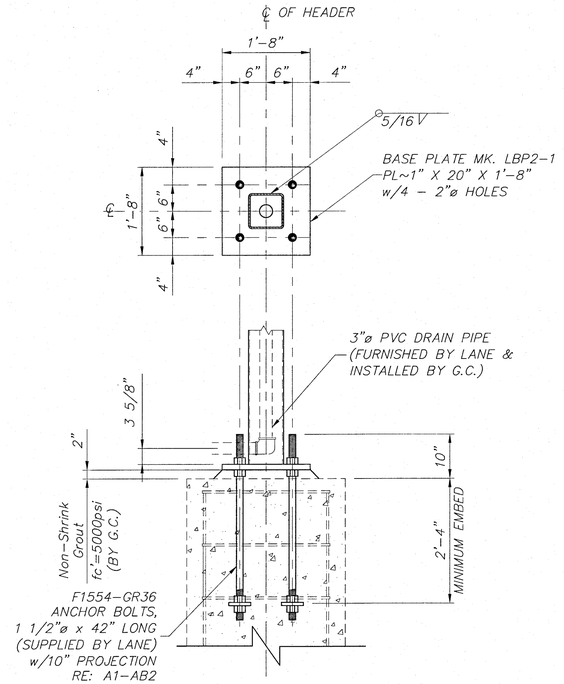


FOOTING BY OTHERS

F1	ANCHOR BOLT LAYOUT
N.T.S	F1-AB1

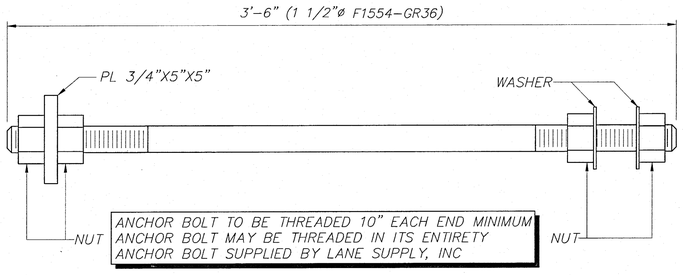


F6	BLOCKOUT FOR ANCHOR BOLTS
N.T.S	.



FOOTING BY OTHERS

FII	ANCHOR BOLT LAYOUT
N.T.S	F1-AB1



AI	ANCHOR BOLT DETAIL
N.T.S.	F1-AB2, FII-AB2

A6	NOT USED
.	.

AI0	NOT USED
N.T.S	.

DEAD LOAD = 3 P.S.F.(DECK + LIGHTS) +
WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 P.S.F.
SNOW LOAD = 30 P.S.F.
V, ULT = 116 M.P.H. EXP. C
V, ASD = 90 M.P.H. EXP. C
2021 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM =
CANTILEVERED COLUMN SYSTEM-
ORDINARY STEEL MOMENT FRAME
PF = 30 P.S.F., CE = 1.2, CT = 1.2, IS = 1.0
PD = 25.81 P.S.F.
W = 5.77 FT
SITE CLASS = D
SS (0.2) = 0.484
S1 (1.0) = 0.153
SDS = 0.456
SD1 = 0.234
FA = 1.413
FV = 2.294
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = D
CS = 0.365
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = A2
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS = 8.94 KIPS

AI4	DESIGN LOADS ⚠1
N.T.S.	.

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

LANE SUPPLY, INC.
120 Fairview
Arlington, TX. 76010
(817) 261-9116

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MONTANA
MICHAEL WINSTON CUSTER
No. 16168PE
LICENSED PROFESSIONAL ENGINEER
10-27-24

CHICK-FIL-A
CUSTER & WASHINGTON FSU
2770 N. WASHINGTON ST. ⚠1
HELENA, MT 59602

FSR# 05484

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
⚠1	07/11/2024	PLAN CHECK
⚠2	07/19/2024	ISSUE FOR BID
⚠4	10/02/2024	PLANCHECK

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JOB NO. 2024-

PRINTED FOR ISSUED FOR PERMIT

DATE 02/01/2024

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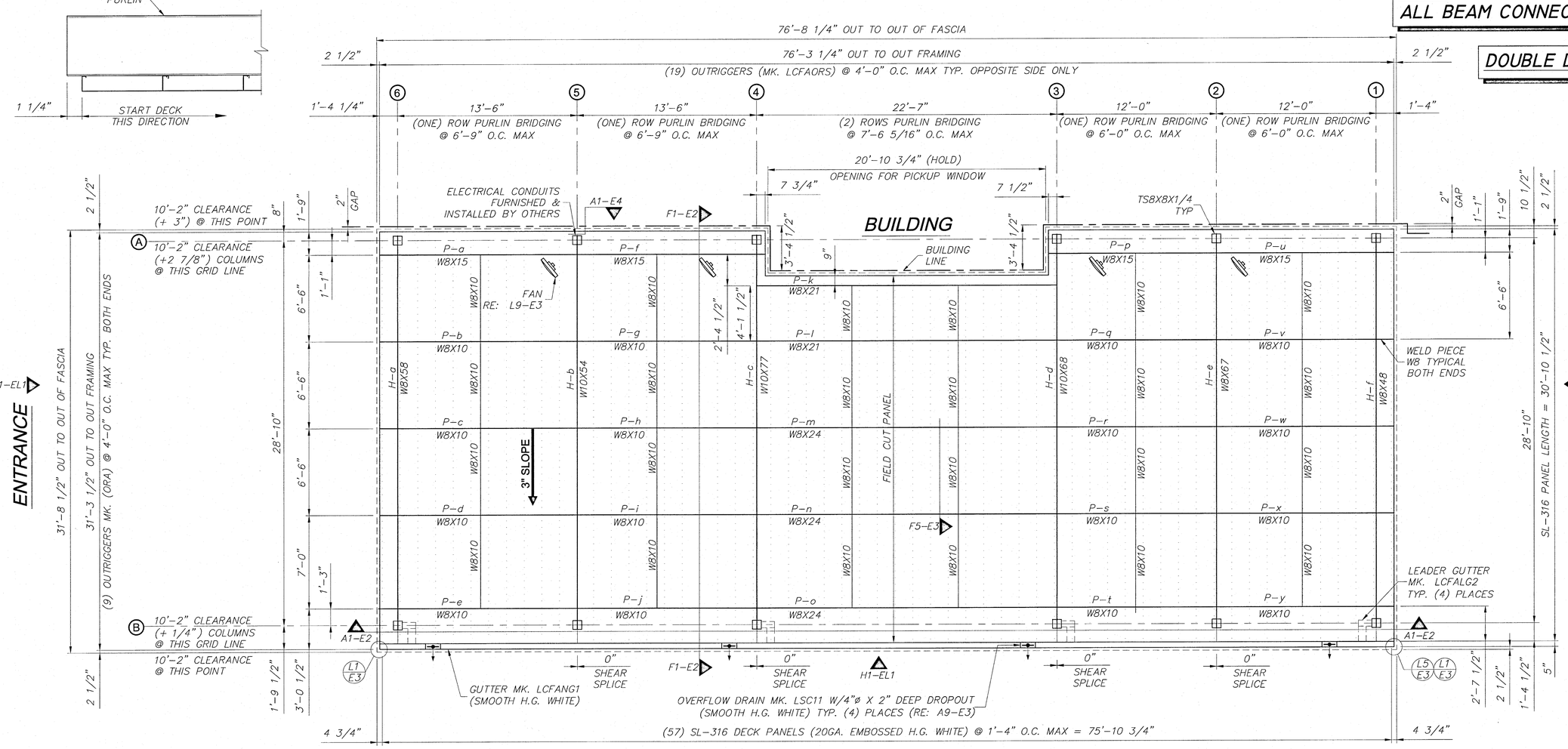
SHEET

CANOPY FOOTINGS

SHEET NUMBER

OMD-2

AB2 OF 2



F1 CANOPY FRAMING LAYOUT ⚠1

1/4" = 1'-0"

STRUCTURAL STEEL SHALL MEET THE AISC 2017 SPECIFICATION 15TH EDITION AND THE AISC CODE OF STANDARD PRACTICE, CURRENT VERSION.
COLUMNS TO BE ASTM A500, GRADE B
BOLTS TO BE ASTM A325 OR ASTM F1852 (A325-TC)
INSTALLATION OF BOLTS SHALL BE BROUGHT TO A SNUG TIGHT CONDITION-DEFINED AS THE CONDITION THAT EXISTS WHEN ALL OF THE PLIES IN A CONNECTION HAVE BEEN PULLED INTO FIRM CONTACT BY THE BOLTS IN THE JOINT AND ALL OF THE BOLTS IN THE JOINT HAVE BEEN TIGHTENED SUFFICIENTLY TO PREVENT THE REMOVAL OF THE NUTS WITHOUT THE USE OF A WRENCH.

WIDE FLANGE BEAMS TO BE ASTM A992
ANGLES, & PLATES TO BE ASTM A36
REINFORCING STEEL TO BE ASTM 615, GRADE 60
DECK PANELS TO BE ASTM 653, GRADE C MINIMUM
WELD FILLER METALS SHALL MEET THE MINIMUM CHARPY V-NOTCH REQUIREMENT OF 20 FT-LB AT 0°F WELDING SHALL MEET THE REQUIREMENTS OF THE AWS FOR BUILDING CONSTRUCTION USING E70XX ELECTRODES
ALL STRUCTURAL STEEL TO BE PAINTED WITH ONE SHOP COAT PRIMER
CANOPY FABRICATOR SHALL BE AISC CERTIFIED
LANE SUPPLY INC. IS AN AISC CERTIFIED FABRICATOR (AISC # C-00026892)

1. REFERENCE SEALANT SCHEDULE FOR ALL APPLICATIONS
2. SEAL ALL JOINTS WITH A SMOOTH, CLEAN APPLICATION
3. APPLY CAULK CLEAR AROUND THE COLUMNS ON THE TOP SIDE OF THE DECK AFTER BOTTOM SIDE HAS BEEN CAULKED.
4. DECK PANELS AND TRIM WILL BE WIPED CLEAN AFTER INSTALLATION
5. ALL TRASH AND EXTRA MATERIALS WILL BE HAULED OFF JOBSITE
6. CHECK WITH GENERAL CONTRACTOR FOR DRAIN ORIENTATION
7. FURNISH & INSTALL LANE DESIGNED AND ENGINEERED "HUNG" DECK
8. FURNISH & INSTALL SUPPORT FRAMING FOR (4) FANS (FANS FURNISHED & INSTALLED BY OTHERS.)
9. FURNISH & INSTALL (10) LSI CRUS-CS-LED-LW-30-UE-WHT CANOPY DECK LIGHTS.
10. FURNISH & INSTALL SHEET METAL FASCIA "CHICK-FIL-A BRONZE".

SEALANT SCHEDULE

SEALANT	COLOR	APPLICATION
SOUDASEAL FC	WHITE	DECK TO COLUMN @ BOTTOM
SOUDASEAL FC	WHITE	GUTTER JOINTS
SOUDASEAL FC	WHITE	DECK TO COLUMN @ TOP
SOUDASEAL FC	WHITE	SEAL @ OVERFLOW DROPOUTS
SOUDASEAL FC	WHITE	SEAL BOLTS @ HEATER SUPPORTS
SOUDASEAL FC	WHITE	DAM UP DECK @ DECK CLOSURE
SOUDASEAL FC	WHITE	SEAL FASCIA @ DECK CLOSURE

DEAD LOAD = 3 P.S.F.(DECK + LIGHTS) + WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 P.S.F.
SNOW LOAD = 30 P.S.F.
V, ULT = 116 M.P.H. EXP. C
V, ASD = 90 M.P.H. EXP. C
2021 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM = CANTILEVERED COLUMN SYSTEM-ORDINARY STEEL MOMENT FRAME
PF = 30 P.S.F., CE = 1.2, CT = 1.2, IS = 1.0
PD = 25.81 P.S.F.
W = 5.77 FT
SITE CLASS = D
SS (0.2) = 0.484
S1 (1.0) = 0.153
SDS = 0.456
SD1 = 0.234
FA = 1.413
FV = 2.294
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = D
CS = 0.365
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = A2
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS = 8.94 KIPS

A1	GENERAL NOTES	A6	ERECTOR'S NOTES	A11	NOT USED	A14	DESIGN LOADS ⚠1
N.T.S.	.	N.T.S.	.	.	.	N.T.S.	.

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

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MONTANA
MICHAEL WINSTON CUSTER
No. 16166PE
LICENSED PROFESSIONAL ENGINEER

CHICK-FIL-A
CUSTER & WASHINGTON FSU
2770 N. WASHINGTON ST.
HELENA, MT 59602 ⚠1

FSR# 05484

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
⚠1	07/11/2024	PLAN CHECK
⚠2	07/19/2024	ISSUE FOR BID
⚠4	10/2/2024	PLAN CHECK

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JOB NO. LSC 27005
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DATE 02/01/2024
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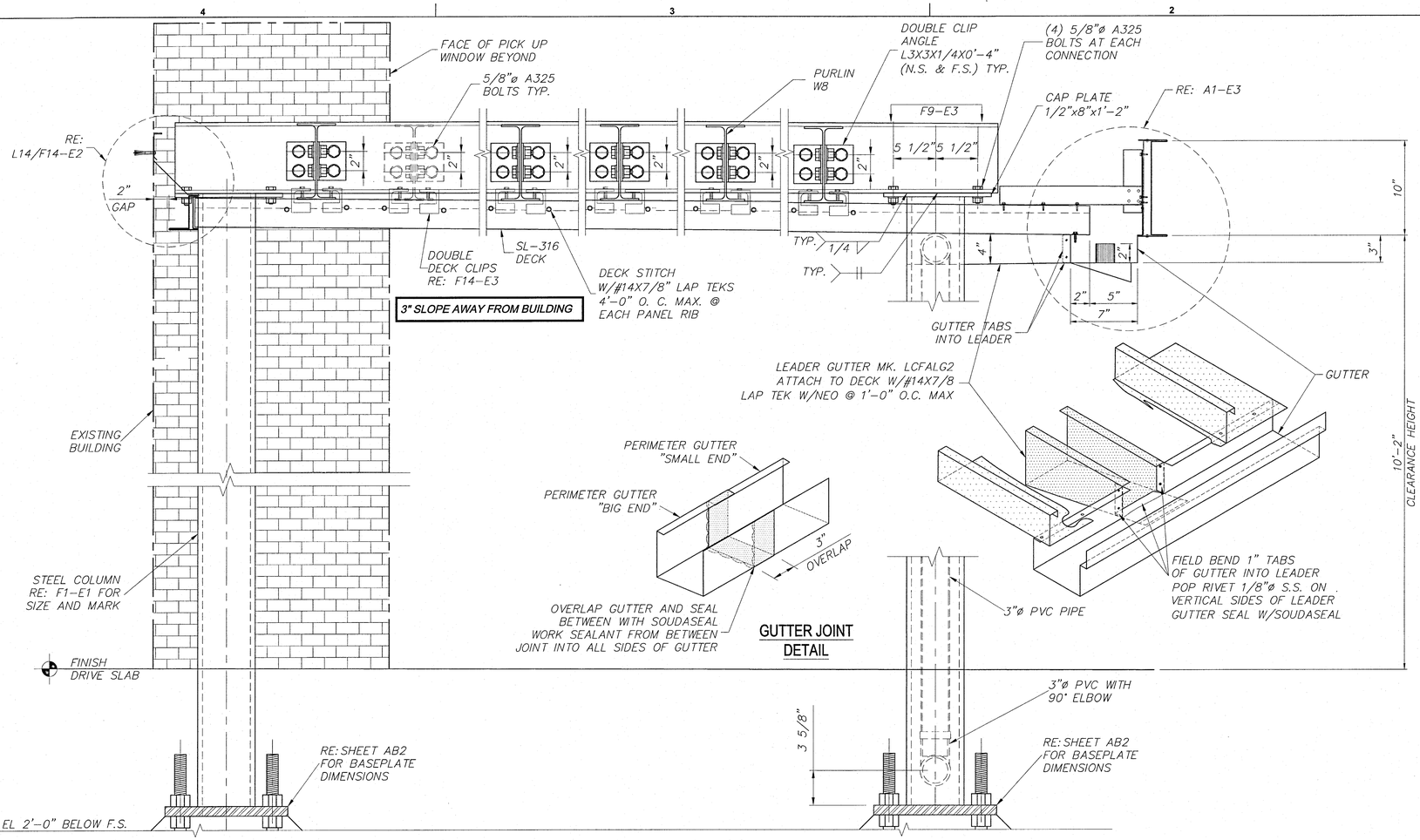
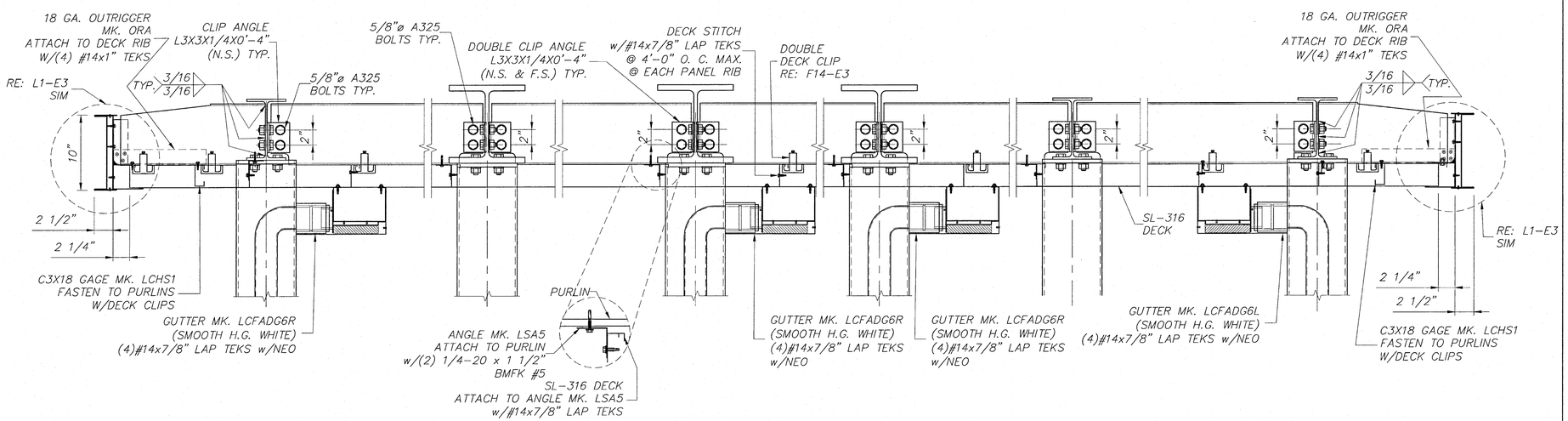
SHEET
CANOPY FRAMING PLAN
SHEET NUMBER
OMD-3
E1 OF 4



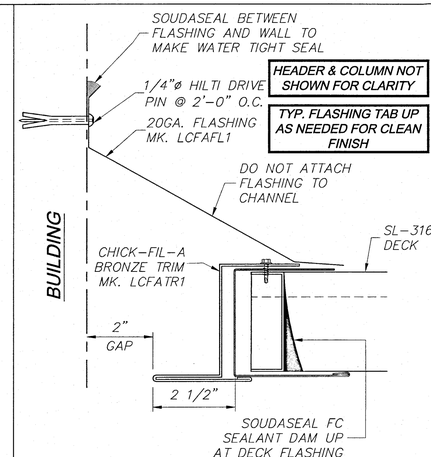
FI CANOPY SECTION

1 1/2" = 1'-0" | FI-EI



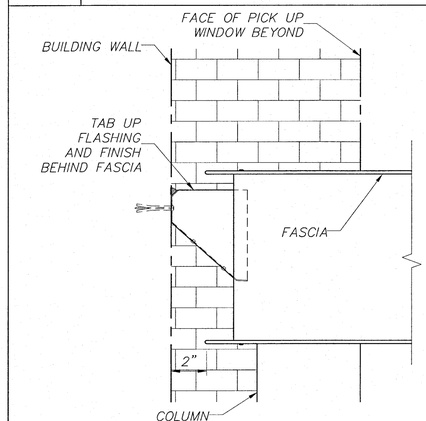
AI CANOPY SECTION

1 1/2" = 1'-0" | FI-EI



LI4 SECTION AT FASCIA

N.T.S. | FI-E2



FI4 DETAIL AT FLASHING TERMINATION

N.T.S. | FI-E2

DEAD LOAD = 3 P.S.F.(DECK + LIGHTS) +
WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 P.S.F.
SNOW LOAD = 30 P.S.F.
V, ULT = 116 M.P.H. EXP. C
V, ASD = 90 M.P.H. EXP. C
2021 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM =
CANTILEVERED COLUMN SYSTEM-
ORDINARY STEEL MOMENT FRAME
PF = 30 P.S.F., CE = 1.2, CT = 1.2, IS = 1.0
PD = 25.81 P.S.F.
W = 5.77 FT
SITE CLASS = D
SS (0.2) = 0.484
S1 (1.0) = 0.153
SDS = 0.456
SD1 = 0.234
FA = 1.413
FV = 2.294
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = D
CS = 0.365
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = A2
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS = 8.94 KIPS

AI4 DESIGN LOADS ⚠1

N.T.S. | .

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

LANE BUILDING SUPPLY, INC.
120 Fairview
Arlington, TX. 76010
(817) 261-9116

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MICHAEL WINSTON CUSTER
No. 16168PE
LICENSED PROFESSIONAL ENGINEER
10-27-24

CHICK-FIL-A
CUSTER & WASHINGTON FSU
2770 N. WASHINGTON ST.
HELENA, MT 59602

FSR# 05484

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	07/11/2024	PLAN CHECK
2	07/16/2024	ISSUE FOR BID
4	10/28/2024	PLAN CHECK

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ISSUED FOR PERMIT
DATE 02/01/2024
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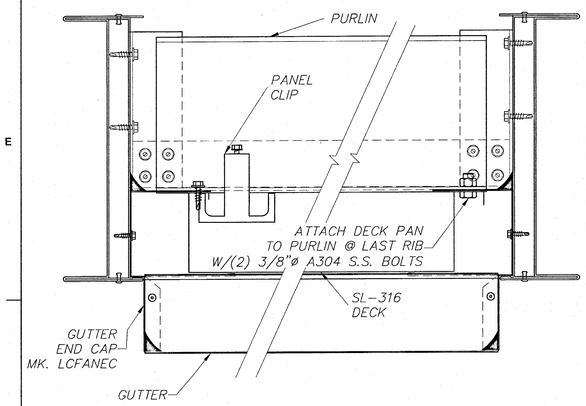
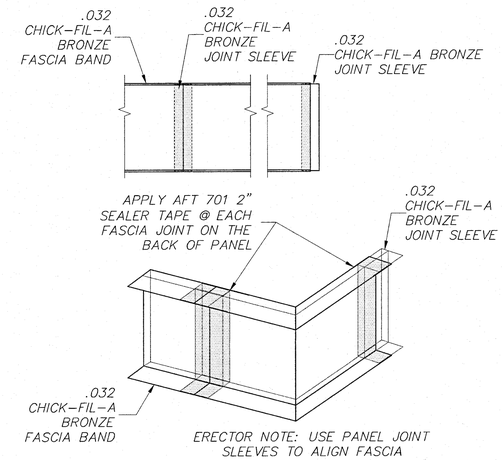
SHEET
CANOPY SECTIONS
SHEET NUMBER
OMD-4
E2 OF 4



L1 DETAIL AT SIDES OF CANOPY

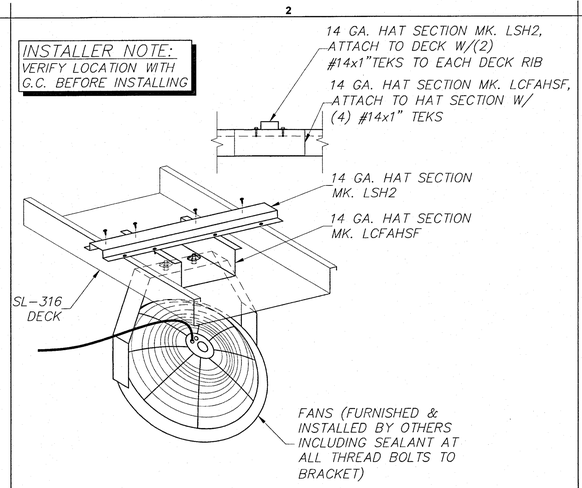
N.T.S. | A1-E2, F1-E1



L5 DETAIL AT FASCIA CORNER AND SPLICE

N.T.S. | F1-E1

INSTALLER NOTE:
VERIFY LOCATION WITH G.C. BEFORE INSTALLING

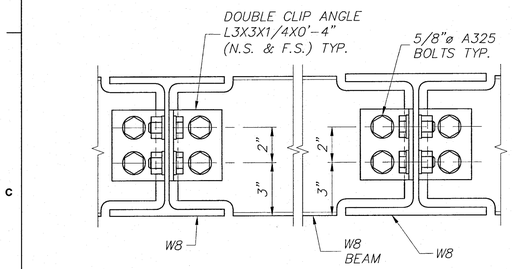


L9 SECTION AT FAN SUPPORT

N.T.S. | F1-E1

L13 NOT USED

.

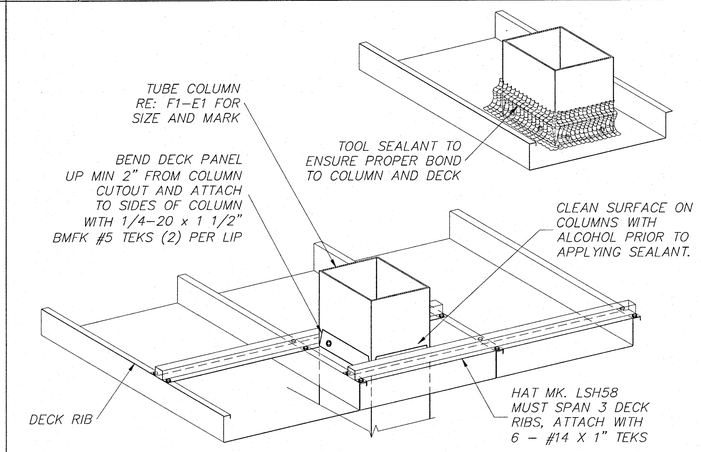


F1 SECTION AT PURLIN BRIDGING

N.T.S. | F1-E1

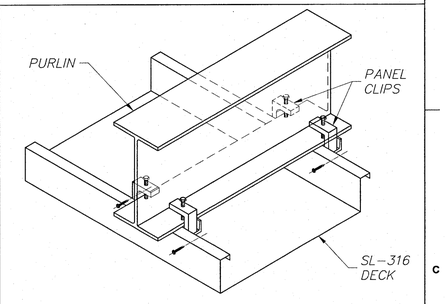
F5 NOT USED

.



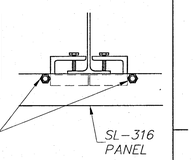
F9 DETAIL AT DECK SUPPORT

1 1/2" = 1'-0" | F1-E2



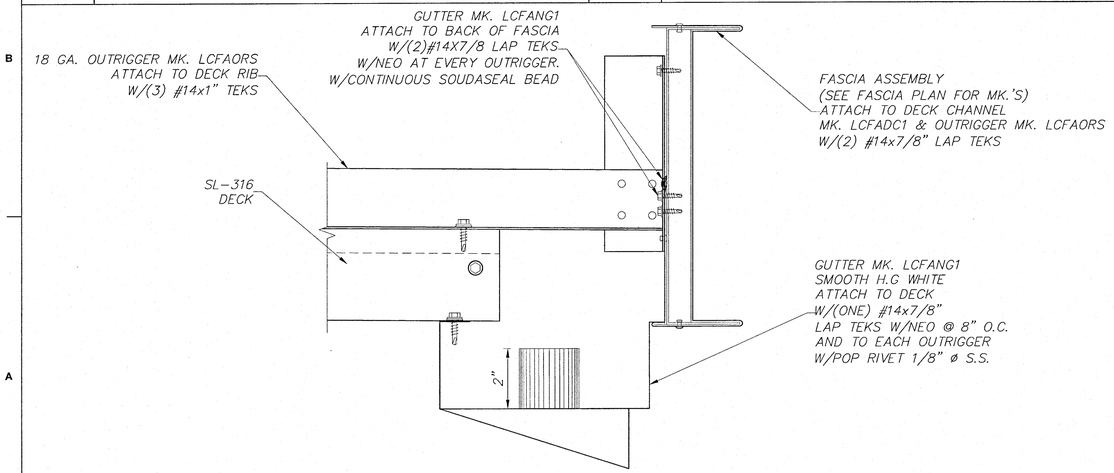
INSTALLER NOTE:
CLAMP DECK RIBS NEAR FACE OF PAN PRIOR TO INSTALLING DECK CLIP SCREW

SECURE THE PANEL CLIP BY THE USE OF A #14x7/8" LAP TEK (BEHIND THE CLIP AND THROUGH THE LEG OF THE PANEL) TO PREVENT THE CLIP FROM RELEASING FROM THE PURLIN.



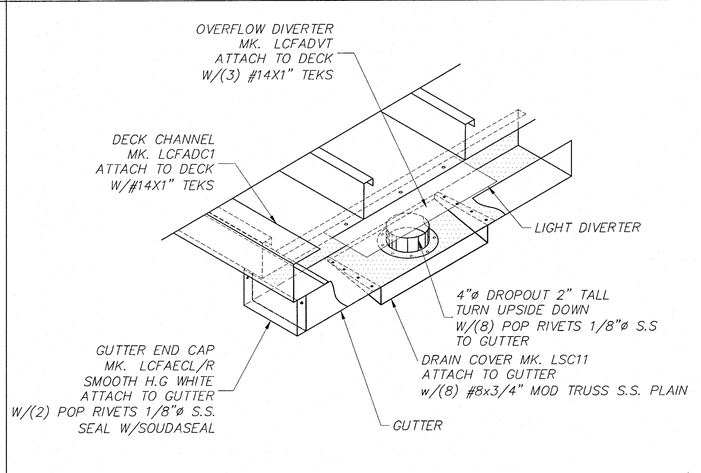
F14 DETAIL AT DECK CLIP

N.T.S. | A1-E2, F1-E2



A1 DETAIL AT END OF CANOPY

N.T.S. | F1-E1, F1-E2



A9 DETAIL OF OVERFLOW DRAIN

N.T.S. | F1-E1

DEAD LOAD = 3 P.S.F.(DECK + LIGHTS) +
WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 P.S.F.
SNOW LOAD = 30 P.S.F.
V, ULT = 116 M.P.H. EXP. C
V, ASD = 90 M.P.H. EXP. C
2021 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM =
CANTILEVERED COLUMN SYSTEM-
ORDINARY STEEL MOMENT FRAME
PF = 30 P.S.F., CE = 1.2, CT = 1.2, IS = 1.0
PD = 25.81 P.S.F.
W = 5.77 FT
SITE CLASS = D
SS (0.2) = 0.484
S1 (1.0) = 0.153
SDS = 0.456
SD1 = 0.234
FA = 1.413
FV = 2.294
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = D
CS = 0.365
CONSTRUCTION TYPE = IIB
OCCUPANCY CATEGORY = A2
TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS = 8.94 KIPS

A14 DESIGN LOADS ⚠1

N.T.S. | .

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

LANE BUILDING SUPPLY, INC.
120 Fairview
Arlington, TX. 76010
(817) 261-9116

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MONTANA
MICHAEL WINSTON CUSTER
No. 16168PE
LICENSED PROFESSIONAL ENGINEER

CHICK-FIL-A
CUSTER & WASHINGTON FSU
2770 N. WASHINGTON ST.
HELENA, MT 59602
⚠1

FSR# 05484

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
⚠1	07/11/2024	PLAN CHECK
⚠2	07/16/2024	ISSUE FOR BID
⚠3	10/24/2024	PLAN CHECK

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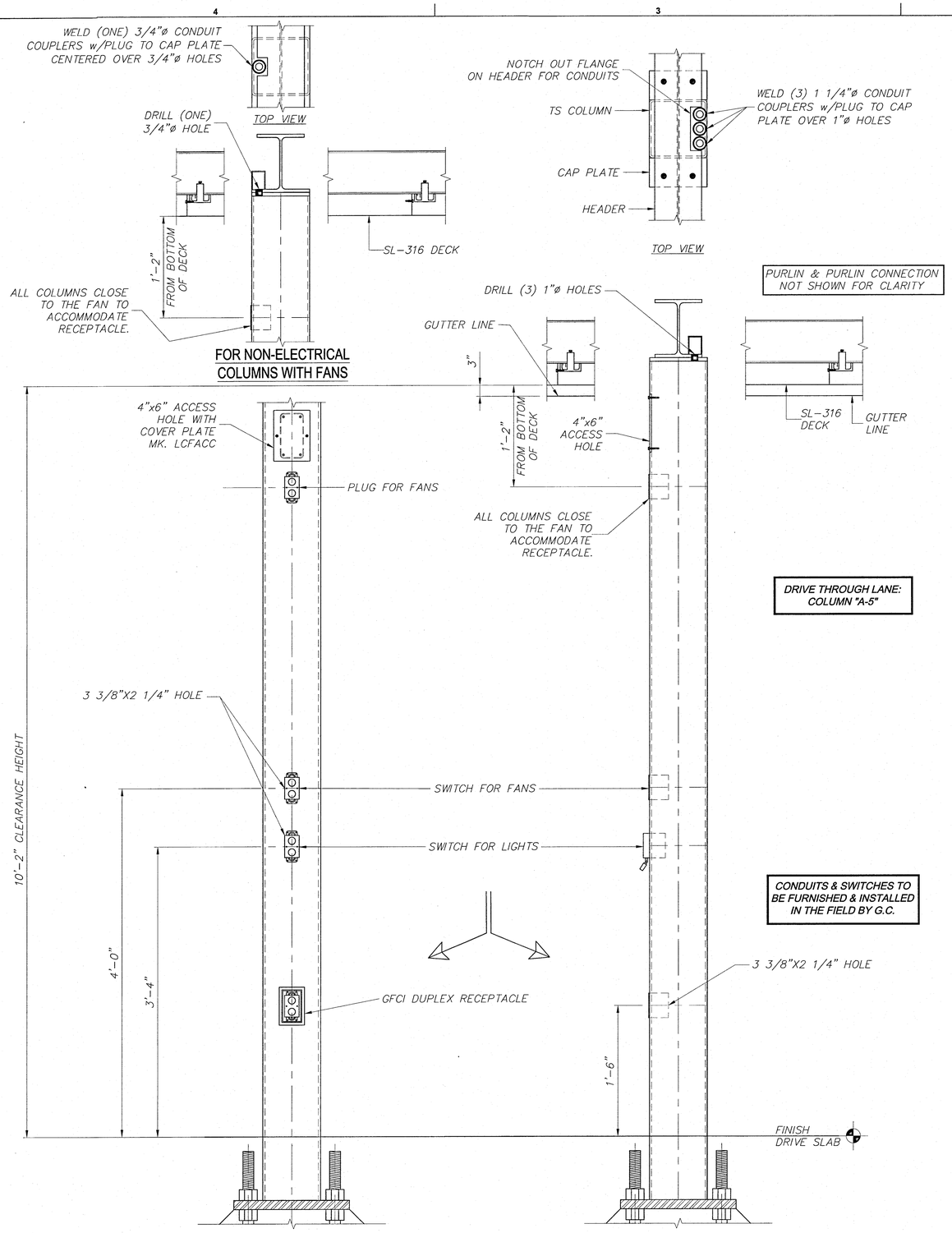
SHEET
CANOPY SECTIONS

SHEET NUMBER
OMD-5
E3 OF 4



A1	SECTION @ COLUMN "A-5"	A10 NOT USED	A14 DESIGN LOADS ⚠1
1 1/2" = 1'-0"	F1-E1	. .	N.T.S. .

F14	NOT USED
.	.

DEAD LOAD = 3 P.S.F.(DECK + LIGHTS) +
WEIGHT OF STRUCTURAL COMPONENTS
LIVE LOAD = 20 P.S.F.
SNOW LOAD = 30 P.S.F.
V, ULT = 116 M.P.H. EXP. C
V, ASD = 90 M.P.H. EXP. C
2021 INTERNATIONAL BUILDING CODE
EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEM =
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ORDINARY STEEL MOMENT FRAME
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W = 5.77 FT
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S1 (1.0) = 0.153
SDS = 0.456
SD1 = 0.234
FA = 1.413
FV = 2.294
R = 1.25
IMPORTANCE FACTOR = 1.0
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY = D
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CONSTRUCTION TYPE = IIB
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TOTAL SEISMIC BASE SHEAR BOTH DIRECTIONS = 8.94 KIPS

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10-27-24

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FSR# 05484

REVISION SCHEDULE

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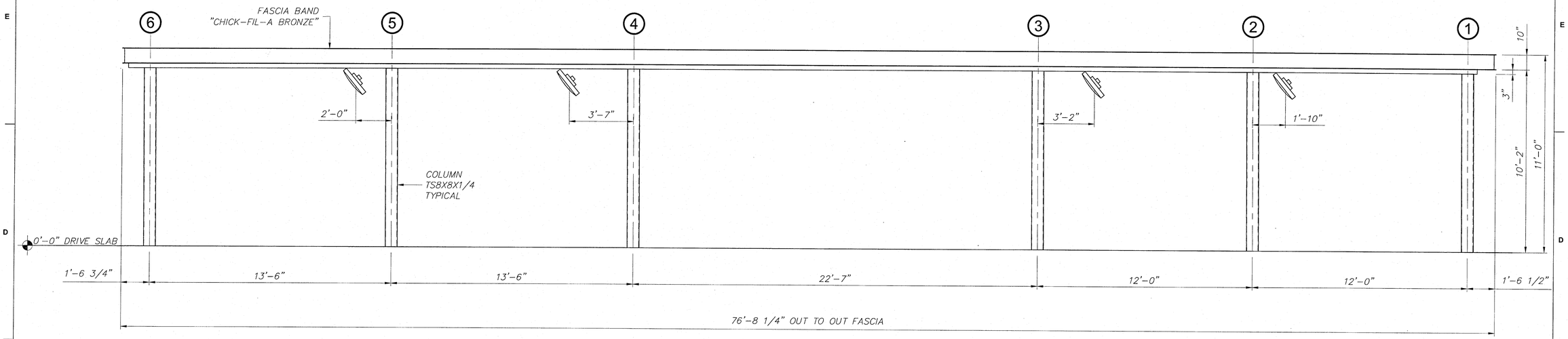
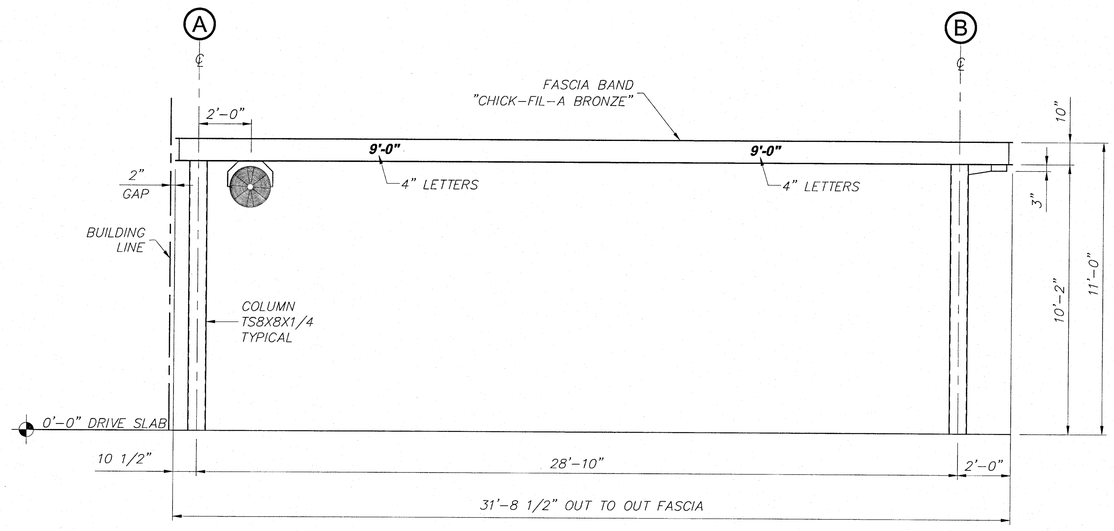
SHEET
CANOPY SECTIONS
SHEET NUMBER
OMD-6
E4 OF 4



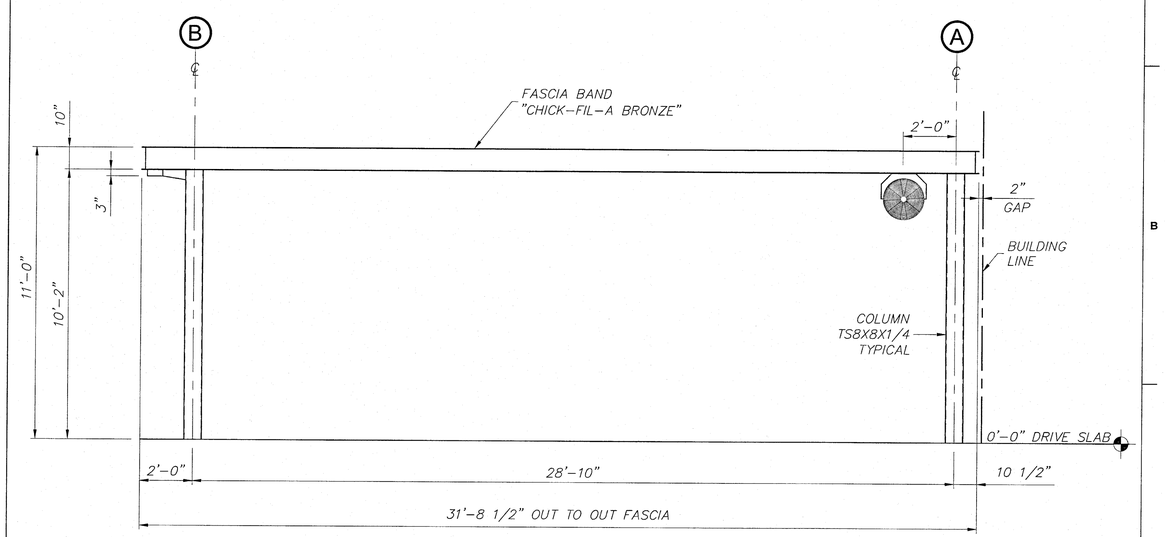
HI **CANOPY SIDE ELEVATION** ⚠1

3/8" = 1'-0" | FI-ABI, FI-EI, FI-LLI



AI **CANOPY END ELEVATION** ⚠1

3/8" = 1'-0" | FI-ABI, FI-EI, FI-LLI



A9 **CANOPY END ELEVATION** ⚠1

3/8" = 1'-0" | FI-ABI, FI-EI, FI-LLI

Chick-fil-A
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10-7-24

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FSR# 05484

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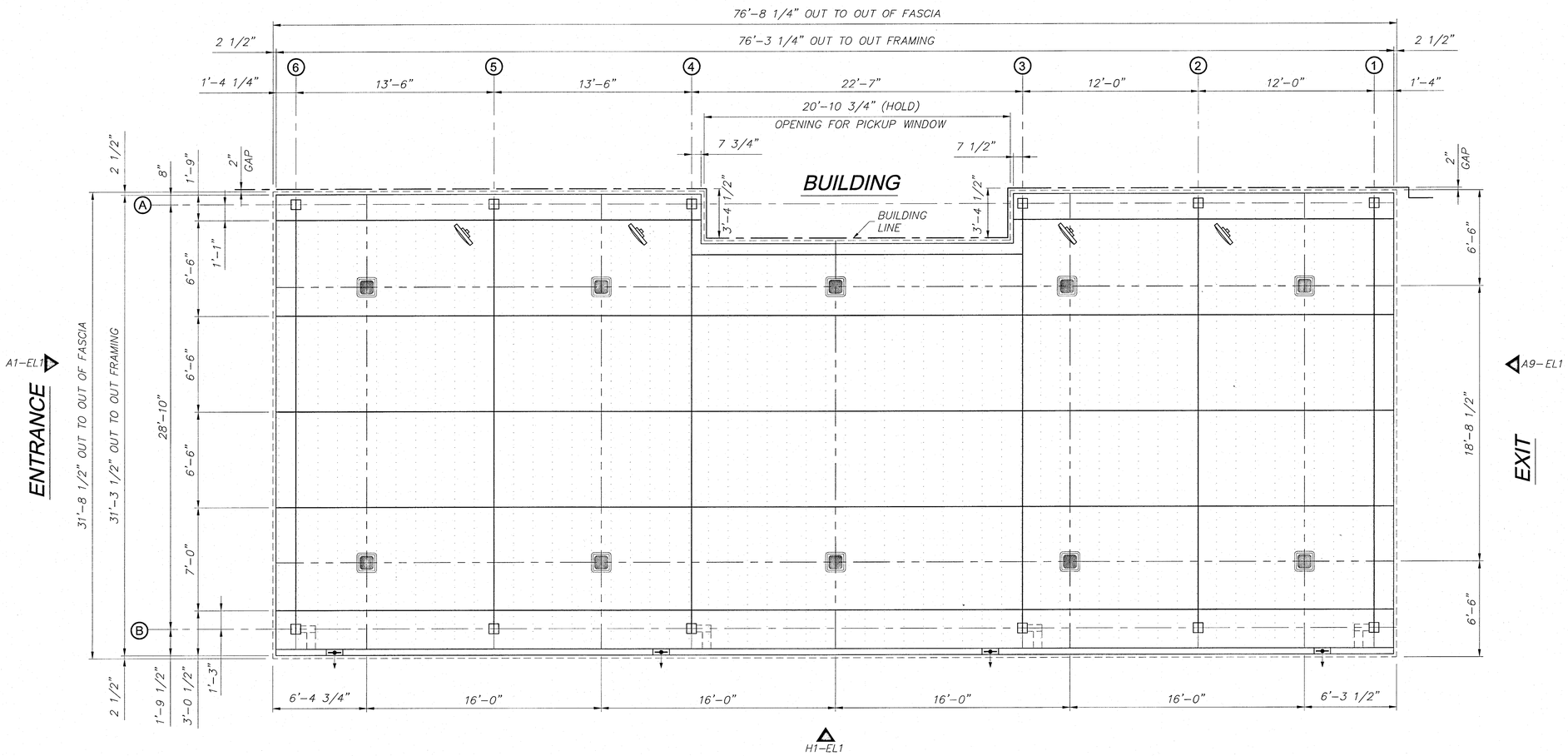
SHEET
CANOPY ELEVATION PLAN
SHEET NUMBER
OMD-7
ELI OF I



F1 CANOPY LIGHT LAYOUT 1

1/4" = 1'-0"

1. THE LIGHT LAYOUT IS A SUGGESTED PLAN ONLY. IT IS PROVIDED BY LANE AS A SERVICE TO ITS CUSTOMER AND IS TO BE USED AS A GUIDE ONLY.
2. THESE LIGHT FIXTURES NEED TO BE CENTERED IN DECK PANELS.
3. ENSURE ADEQUATE CLEARANCE FROM STRUCTURAL MEMBERS PRIOR TO CUTTING DECK.
4. INSTALLATION OF FIXTURES TO BE DONE IN ACCORDANCE WITH MANUFACTURES INSTRUCTIONS AND RECOMMENDATIONS.
5. IF LIGHTS INTERFERE WITH LEADER GUTTERS MOVE ROW LIGHTS TO THE NEXT DECK.

LEGEND:

INDICATES LSI CRUS-SC-LED-LW-30-CW-UE-WHT CANOPY DECK LIGHTS.

INDICATES DECK STITCHING.

MOUNTED FANS (BY OTHERS) RE: SHEET E3 FOR MOUNTING SUPPORT

INDICATES MOUNTED FAN

A1 GENERAL NOTES

N.T.S.

A6 NOT USED

A10 NOT USED

Chick-fil-A
5200 Buffington Road
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30349-2998

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1

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SHEET
CANOPY LIGHT LAYOUT

SHEET NUMBER
OMD-8

LLI OF 1