Hellgate High School Design Progress

MMW Architects

Brainspaces and FIT Analysis
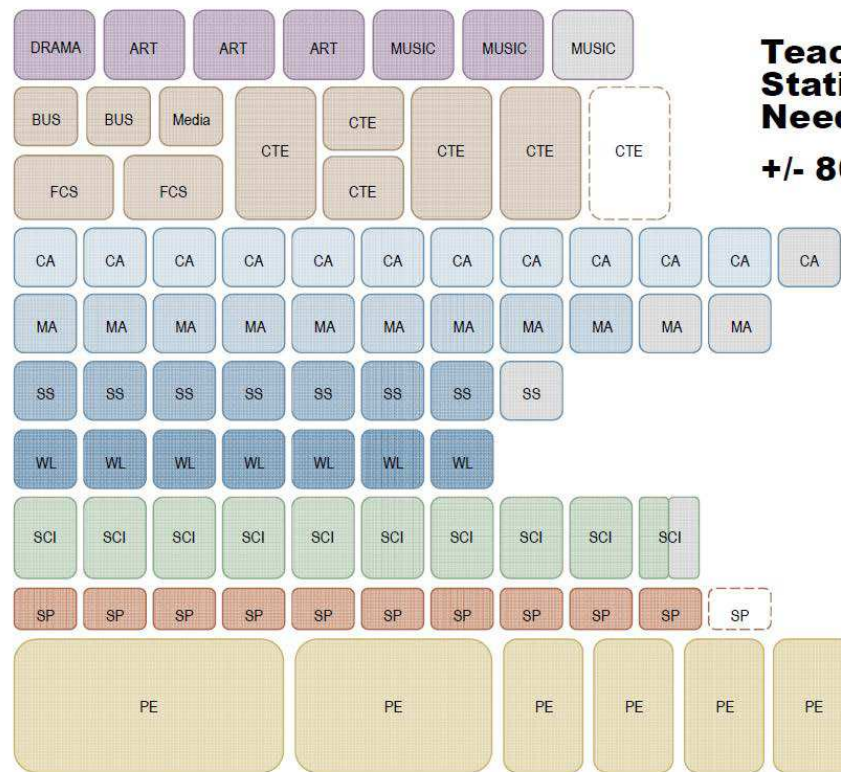
teaching stations

Teaching Stations Needed:

+/- 80

	Current Teaching Stations	TS for Current Students @71%	TS for 1,500 students @75%
ART & DRAMA	4	4	4
BUSINESS, FCS & CTE	11	7	10
COMMUNICATION ARTS	10.5	10	12
MATH	8.5	9	10
MUSIC	2	2	3
SCIENCE	9.5	8	10
SOCIAL STUDIES	7.5	7	8
WORLD LANGUAGES	7	5	7
HEALTH / PE	5	5	6
SPECIALIZED / SUPPORTIVE	11	9	10
COMPUTER LAB	3		
totals	79	66	80

IMPORTANT NOTE: The departmental analyses included in this presentation are based on the 2015-16 Master Schedule, and may not include schedule nuances. Data generated for this exercise is used to simply analyze existing conditions, and NOT to directly determine future plans.

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Business / FCS / CTE

BUSINESS, FCS & CTE

RM#	Use	P1	P2	P3	P4	P5	P6	P7
1	113 Business		20	18	27	19		
2	120 Business		23	28		20	19	19
3	122 FCS Fo	27	25	27	10	24	25	25
4	126 FCS (no	20	27			25	23	20
5	326 Media		6	3		22		
6	402 Metals	28	22					
7	403 Design	27	15		24		24	13
8	404 Clsrm	20						
9	405 Clsrm							
10	406 Tech/Shop							
11	407 Woods				27	SH	8	19
12	BSHS		10	10	7	7		28	28
13	SHS		8	8				8	8

TOTALS & ANALYSES:

Pd/Day	Avg Util	Avg St/Pc	#St/Day	Area	sf/st	bnchmk	ok	COMMENTS
4	57%	21	84	726	34.6	45	0.77	
5	71%	22	109	1027	47.1	45	1.05	
7	100%	23	163	1207	51.8	60	0.86	
5	71%	23	115	1557	67.7	60	1.13	
3	43%	10	31	1102	106.6	60	1.78	
2	29%	25	50	1910	76.4	80	0.96	
5	71%	21	103	1211	58.8	60	0.98	
1	14%	20	20	950	47.5	45	1.06	
0	0%		0	946		45		Room Not Scheduled
0	0%		0	1918		120		Room Not Scheduled
3	43%	18	54	2427	134.8	80	1.69	
6	86%	15	90					Off-site
4	57%	8	32					Off-site

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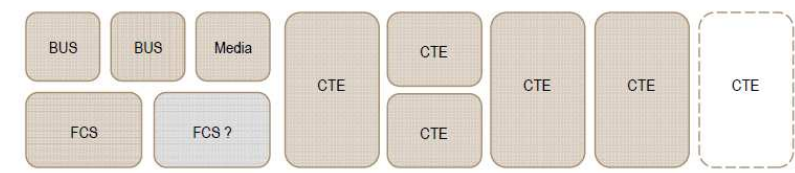|	P1	P2	P3	P4	P5	P6	P7	CALCS
No. Rooms Used:	7	9	5	5	5	7	7	6.8
Students per period	140	156	83	95	110	135	132	
% of Rooms Used:	64%	82%	45%	45%	45%	64%	64%	71%
								7
								25

SUMMARY:

- **11.0** Total Teaching Stations (2 are off-site, 2 unused)
- **851** Total Students per Day (122 students are off-site)
- **49%** Average Room Utilization (% P/Day)
- **3.5** Average Room Utilization (# P/Day)
- **18.9** Average Class Size
- **114%** Average Classroom Size (% of benchmark)
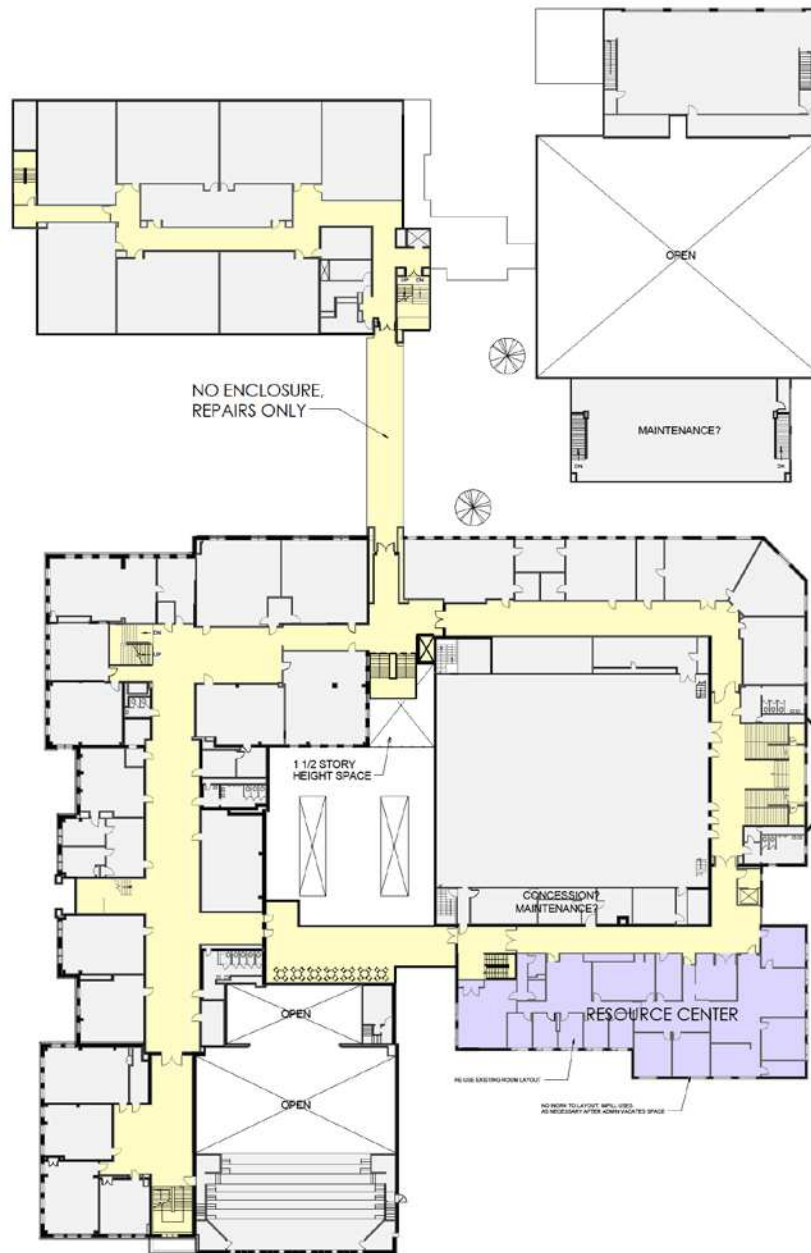
Analysis/Recommendations:

1. CTE rooms are over-sized and/or under-utilized
2. Foods lab is booked solid, consider adding 1
3. 2 CTE rooms are not scheduled
4. Re-purpose 2-3 CTE rooms for other uses
5. Media program could share Yearbook room?

T.S. Counts:

Have: 11

Need: 9-11

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COURTYARD

COURTYARD

NO ENCLOSURE,
REPAIRS ONLY

LOCKER
ROOM
(G)

COACH
OFFICE

T.S.

ENTRY
VESTIBULE

ADMIN

COMMONS

COACH
OR PT

COACH

KITCHEN

GREAT HALL

LOCKER ROOM

EXIT
ONLY

LIBRARY
LEARNING
COMMONS

1 1/2 STORY
HEIGHT SPACE

STOR.

RENOVATED
TEACHING

LOCKER ROOM (B)

LAUNDRY

COACH OFFICE

GREEN
ROOM

STOR

OPEN

OPEN

OPEN

1 First Floor Option C

NORTH

NO ENCLOSURE,
REPAIRS ONLY

OPEN

MAINTENANCE?

1 1/2 STORY
HEIGHT SPACE

CONCESSION?
MAINTENANCE?

RESOURCE CENTER

OPEN

RE-USE EXISTING ROOM LAYOUT

NO WORK TO LAYOUT, INFILL USED
AS NECESSARY AFTER ADMIN VACATES SPACE

OPEN

Second Floor Option C
1/16" = 1'-0"

Hellgate High School
900 S Higgins Ave, Missoula, MT 59801

MMW

5/18/16

COST CAN BE REDUCED BY DOING OPEN STUDIO STYLE

NEW TEACHING SPACE

NO ENCLOSURE,
REPAIRS ONLY

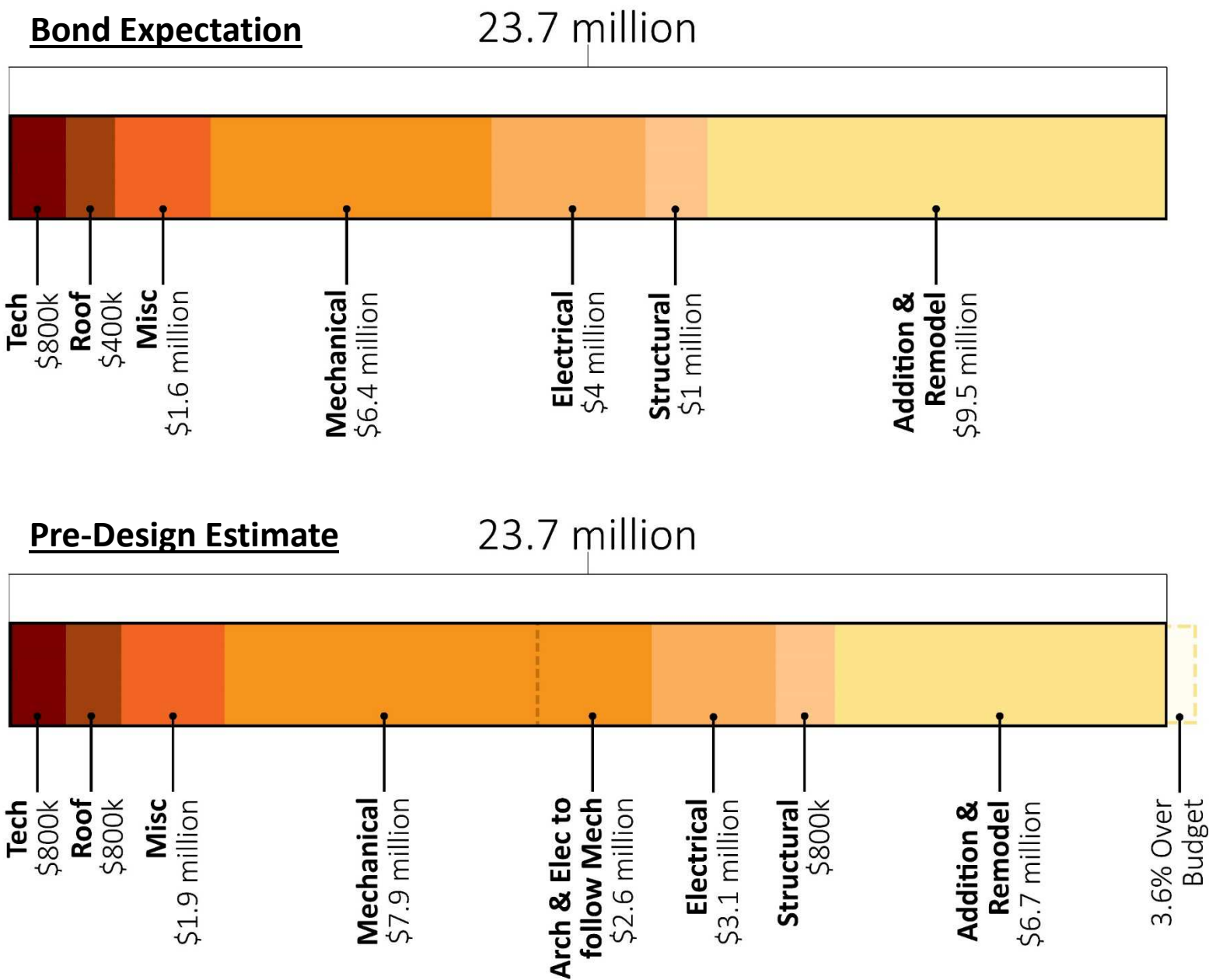OPEN

POTENTIAL
ADDITIONAL
CLASSROOM

Third Floor Option C

Budget

Bond Expectation — 23.7 million

- **Tech** $800k
- **Roof** $400k
- **Misc** $1.6 million
- **Mechanical** $6.4 million
- **Electrical** $4 million
- **Structural** $1 million
- **Addition & Remodel** $9.5 million

Pre-Design Estimate — 23.7 million

- **Tech** $800k
- **Roof** $800k
- **Misc** $1.9 million
- **Mechanical** $7.9 million
- **Arch & Elec to follow Mech** $2.6 million
- **Electrical** $3.1 million
- **Structural** $800k
- **Addition & Remodel** $6.7 million
- 3.6% Over Budget

Bond Requirements

- Fulfilling deferred maintenance needs, including roof and boiler repairs.
- Improving capacity and functionality of technology.
- Building an identifiable front entrance with a security desk.
- Upgrading/Enhancing security.
- Improving common areas.
- Relocating library/media center.
- Expanding visual arts education center.
- Acquiring necessary property for improvements.

Schedule

Timeline labels (top): March 2016 · Now · Mid-September 2016 · November 2016 · February 2017 · April 2017 · November 30th 2018 · December 15th 2018

Phases: Planning and Programming · Schematic Design · Design Development · Construction Documents · Bidding · Construction · Punch List

Milestones: SD approval for EIT/Staff · Contract Awarded