

Schematic Design (SD) Presentation

Agenda

- Purpose of SD
- Proposed Site Location
- General Building Info
- Basic Building Layout
- Cost Estimate
- Construction Schedule

Present for 3 Sites:

- 1) NHS Center for the Sciences
- 2) NHS PAC
- 3) SMHS STEM Building

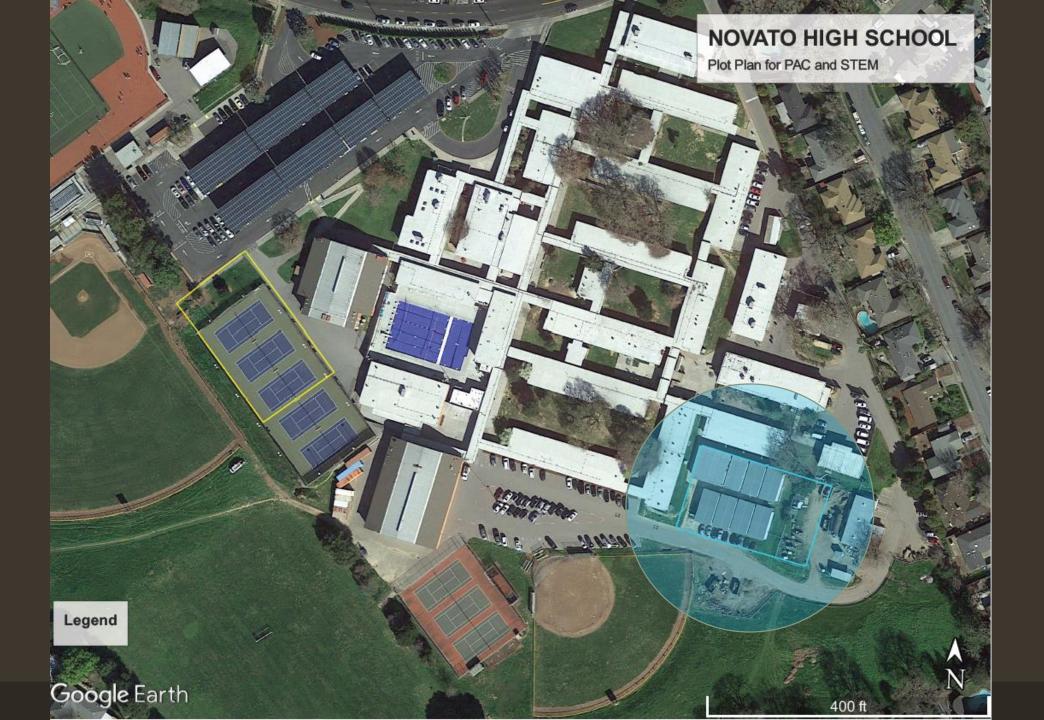
Current Plan for SMHS PAC Building

Purpose of SD

- For each facility, determine:
 - * Building size
 - Building shape
 - Building site location
- Ensure proposed building meets programmatic needs



Novato High School Center for the Sciences



Novato HS Center for the Sciences

- 20,170 ft² (gross) building footprint
- 10 lecture-lab rooms total (vary 1,200 ft 2 to 1,300 ft 2)
 - > 4 rooms for General Science / Biology
 - > 3 rooms for Chemistry
 - > 3 rooms for Engineering / Physics
- Support spaces for staff prep & student demos
- Mechanical spaces, restrooms, storage & circulation



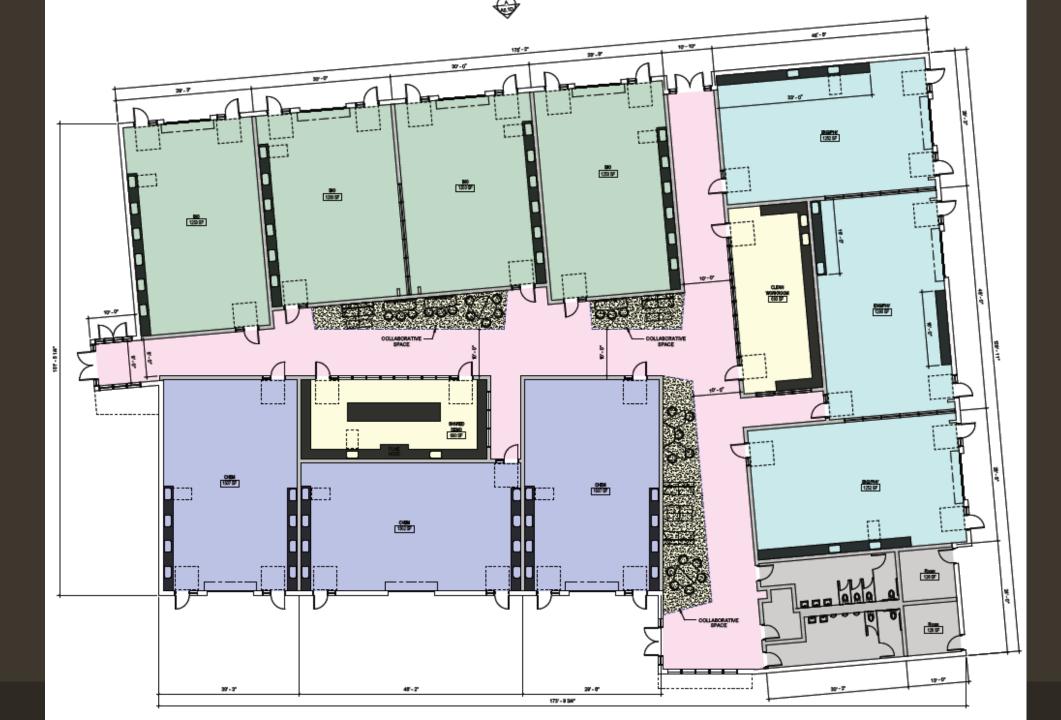


NOVATO HIGH SCHOOL - STEM BUILDING 625 ARTHUR ST, NOVATO, CA 94947
NOVATO UNIFIED SCHOOL DISTRICT

Job#: 1724100 04/17/2018

STEM BUILDING Schematic Site Plan





























Cost Estimate

Overall Project Cost

Description	Quanti	ty	Unit Cost	Subtotal		
Construction Budget	1	ls		\$	9,506,363	
Design Contingency	10	%		\$	950,636	
Construction Contingency	10	%		\$	950,636	
Architect Fees	1	ls		\$	657,882	
Architect Contingency	1	ls		\$	95,064	
Architect Reimbursable Expenses	1	ls		\$	32,894	
Misc. Consultants	1	ls	50,000	\$	50,000	
Blueprinting	1	ls		\$	5,000	
Topographic Survey	1	ls	10,000	\$	10,000	
Soils Report & Testing	1	%		\$	95,064	
CM Fees	1	ls		\$	562,818	
DSA Inspector	13	mos.	14,800	\$	192,400	
Testing Laboratory	1	%		\$	95,064	
Bid Advertisements	1	ls		\$	5,000	
DSA Fees	1.2	%		\$	136,892	
CGS Fees	1	ls	3,600	\$	3,600	
CEQA	1	ls	5,000	\$	5,000	
FF&E	1	ls	300,000	\$	300,000	
Utility Fees	1	ls	25,000	\$	25,000	
Legal	1	ls	10,000	\$	10,000	
Moving Expenses	1	ls	10,000	\$	10,000	
Misc. Expenses	1	ls	50,000	\$	50,000	

Total Estimated Project Cost

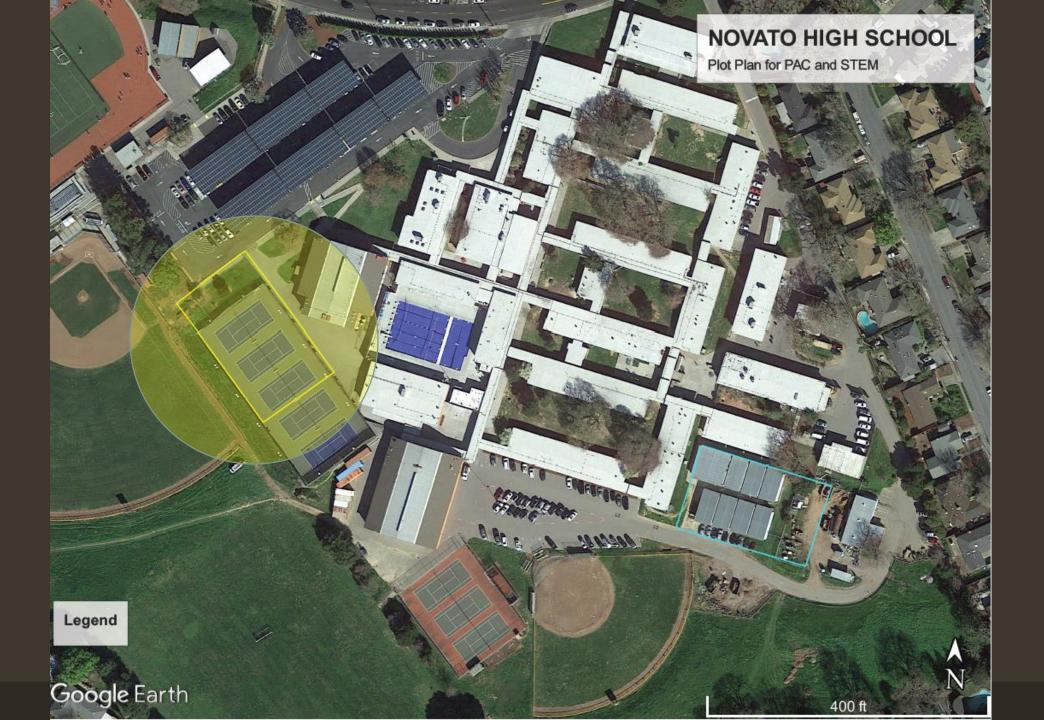
\$ 13,749,312

NHS Stem Update 10.23.17

					10.25.17							
ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	2017		2018	2019	2020	
1	iviode	Form Design Committee	30 days	Mon 8/21/17	Fri 9/29/17	100	2017		12010	2013	12020	
2	4	Program Meetings	46 days	Mon 11/6/17					and h			1
3	-	Schematic Design	40 days	Tue 1/9/18	Mon 3/5/18	2			4			
4	70	Schematic Estimate	10 days	Tue 3/6/18	Mon 3/19/18				1			
5	4	BOT Approval Schematic	1 day	Tue 4/3/18	Tue 4/3/18				x			
6	100	Soils Report	40 days	Tue 3/6/18	Mon 4/30/18	3	1 1	1	4			
7	200	Design Development	80 days	Tue 3/6/18	Mon 6/25/18							
8	1	CGS Review	60 days	Tue 5/1/18	Mon 7/23/18							1
9	-	Construction Documents	60 days	Tue 6/26/18	Mon 9/17/18					h		1
10	78	DSA Submittal	3 days	Tue 9/18/18	Thu 9/20/18	9			=	Ğ		
11	7P	DSA Review	100 days	Fri 9/21/18	Thu 2/7/19	10				*		
12	7P	DSA Back Check	5 days	Fri 2/8/19	Thu 2/14/19	11		1		मॅ		
13	78 th	Scrub Drawings	10 days	Fri 2/8/19	Thu 2/21/19	11		1		T.		
14	196	Bid & Award	33 days	Fri 2/22/19	Tue 4/9/19	13				ă,		
15	NA.	Bonds & Insurance	10 days	Wed 4/10/19	Tue 4/23/19	14		- 1		孟		
16	pt.	Legal Review	5 days	Wed 4/24/19	Tue 4/30/19	15		1		玉		
17	A	Notice to Proceed	1 day	Wed 5/1/19	Wed 5/1/19	16	1 1	- 1		式		
18	78	Submittals & Procurement	27 days	Thu 5/2/19	Fri 6/7/19	17	1	1		ă,		
19	78 T	Mobilization	5 days	Mon 6/10/19	Fri 6/14/19	18				7		
20	28.	Last Day of School	1 day	Thu 6/13/19	Thu 6/13/19					I		
21	AP.	Earthwork & Utilities	30 days	Fri 6/14/19	Thu 7/25/19	20				a		1
22	78ª	Foundations	40 days	Fri 7/26/19	Thu 9/19/19	21				ě.	1	3.
23	74	Building Shell	60 days	Fri 9/20/19	Thu 12/12/19	22				i		
24	787	Systems install	80 days	Fri 12/13/19	Thu 4/2/20	23					—	
25	78	Finishes	60 days	Fri 4/3/20	Thu 6/25/20	24						
26	78	Punch / Test /Sell	30 days	Fri 6/26/20	Thu 8/6/20	25					Č	
27	78	Occupancy	11 days	Fri 7/31/20	Fri 8/14/20	26SS+25 days					- Ja	



Novato High School Performing Arts Center (PAC)



Novato HS Performing Arts Center

- 20,100 ft² (gross) building footprint
- 450-seat capacity in balcony setting
- Stage area
- Lobby, visual/digital arts gallery & restrooms
- Dressing rooms, green room & student restrooms
- Mechanical spaces, storage & circulation space

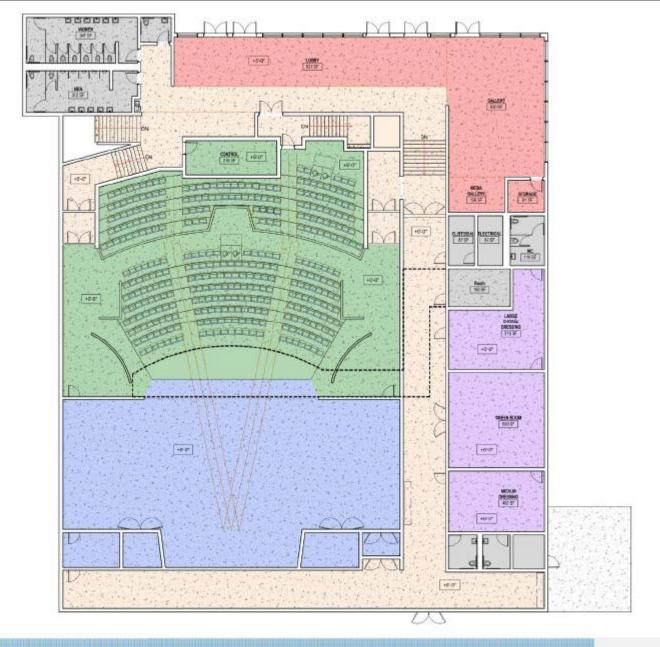






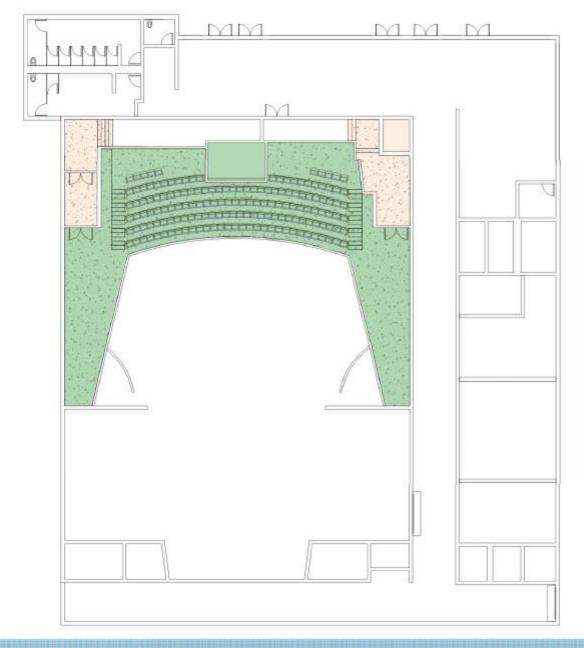
ALC BUILDING Schematic Site Plan





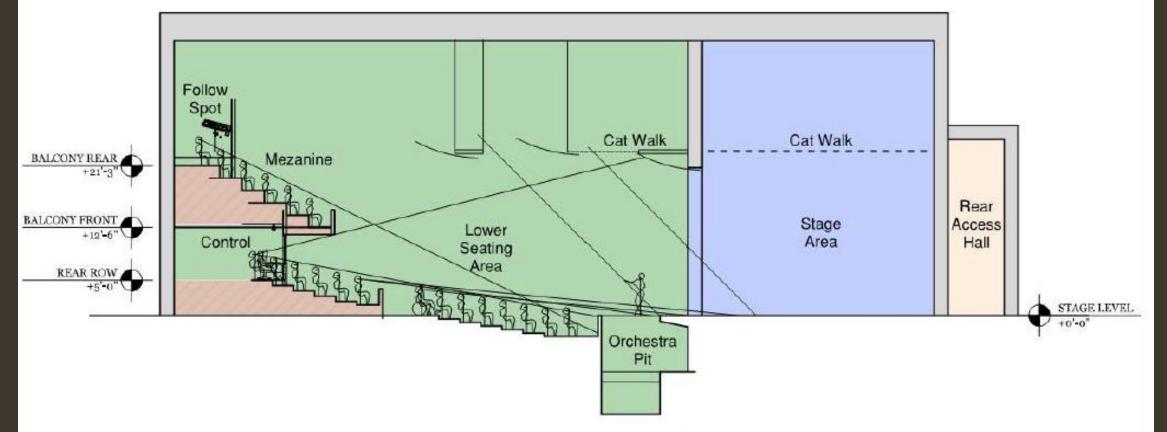
ALC BUILDING Schematic Floor Plan: Lower Levels





ALC BUILDING Schematic Floor Plan: Balcony Level





(1a) CENTERLINE SECTION, TRADITIONAL LAYOUT

ALC BUILDING Schematic Section























Cost Estimate

Description	Qty		Unit Cost	Subtotal
Construction Budget	1	ls		\$18,070,512.54
Design Contingency	10	%		\$1,807,051.25
Construction Contingency	10	%		\$1,807,051.25
Architect Fees	1	ls		\$1,091,025.63
Architect Contingency	1	ls		\$180,705.13
Architect Reimbursable Expenses	1	ls		\$54,551.28
Misc. Consultants	1	ls	\$350,000	\$350,000.00
Blueprinting	1	ls		\$10,000.00
Topographic Survey	1	ls	\$10,000	\$10,000.00
Soils Report & Testing	1	%		\$180,705.13
CM Fees	1	ls		\$910,320.50
DSA Inspector	18	mos.	\$14,800	\$266,400.00
Testing Laboratory	1	%		\$180,705.13
Bid Advertisements	1	ls		\$5,000.00
DSA Fees	1	%		\$260,215.38
CGS Fees	1	ls	\$3,600	\$3,600.00
CEQA	1	ls	\$10,000	\$10,000.00
FF&E	1	ls	\$500,000	\$500,000.00
Utility Fees	1	ls	\$25,000	\$25,000.00
Legal	1	ls	\$10,000	\$10,000.00
Moving Expenses	1	ls	\$10,000	\$10,000.00
Misc. Expenses	1	ls	\$100,000	\$100,000.00
Orchestra Pit	1	ls	\$781,209	\$781,208.75
Construct New Tennis Courts (5)	1	ls	\$350,000	\$350,000.00

Total Estimated Project Cost \$26,974,051.96

NHS PAC Update 10.23.17

ID	Task Name	Duration	Start	Finish	Predecessors						
						2017		018	2019	2020	2021
1	Form Design Committee	40 days	Tue 8/8/17	Mon 10/2/17							
2	Program Meetings	81 days	Mon 10/30/17	Mon 2/19/18							
3	Schematic Design	100 days	Mon 11/27/1	Fri 4/13/18	25S+20 days		HE	3			
4	Schematic Estimate	5 days	Mon 4/16/18	Fri 4/20/18	3			I			
5	BOT Approval Schematic	1 day	Tue 4/24/18	Tue 4/24/18				E	0		
6	Soils Report	40 days	Wed 4/25/18	Tue 6/19/18	5			ф,			
7	Design Development	80 days	Wed 4/25/18	Tue 8/14/18	5						
8	CGS Review	60 days	Wed 6/20/18	Tue 9/11/18	6						
9	Construction Documents	60 days	Wed 8/15/18	Tue 11/6/18	7			ď	In .		
10	DSA Submittal	1 day	Wed 11/7/18	Wed 11/7/18	9			:	r.		
11	Lease-Lease Back Sequence	40 days	Thu 12/13/18	Wed 2/6/19							
12	DSA Review	100 days	Thu 11/8/18	Wed 3/27/19	10						
13	DSA Back Check	5 days	Thu 3/28/19	Wed 4/3/19	12				I		
14	Scrub Drawings	10 days	Thu 3/28/19	Wed 4/10/19	12				T.		
15	Bid GMP	20 days	Thu 4/11/19	Wed 5/8/19	14				ď		
16	Award GMP	1 day	Tue 5/14/19	Tue 5/14/19					I		
17	Mobilization	5 days	Mon 6/10/19	Fri 6/14/19	16				主		
1.8	Earthwork & Utilities	30 days	Mon 6/17/19	Fri 7/26/19					0		
19	Foundations	40 days	Mon 7/29/19	Fri 9/20/19	18				Ď)	
20	Building Shell	80 days	Mon 9/23/19	Fri 1/10/20	19				ì		
21	Systems install	100 days	Mon 1/13/20	Fri 5/29/20	20	1 1				2 3	
22	Finishes	120 days	Mon 6/1/20	Frl 11/13/20	21					t	5,
23	Punch / Test /Sell	30 days	Mon 11/16/20	Fri 12/25/20	22						Ď
24	Occupancy	5 days	Mon 12/28/20	Fri 1/1/21	23						*



San Marin High School STEM Building



San Marin HS STEM Building

- 20,325 ft² (gross) building footprint
- 10 lecture-lab rooms total (vary 1,240 $\mathrm{ft^2}$ to 1,412 $\mathrm{ft^2}$)
 - > 4 rooms for Biology
 - **2** rooms for Chemistry
 - > 2 rooms for Bio-Tech + specialized prep room
 - **2** rooms for Physics
- 2 student group study rooms
- Office
- Support spaces for staff prep & work area
- Mechanical spaces, storage & circulation

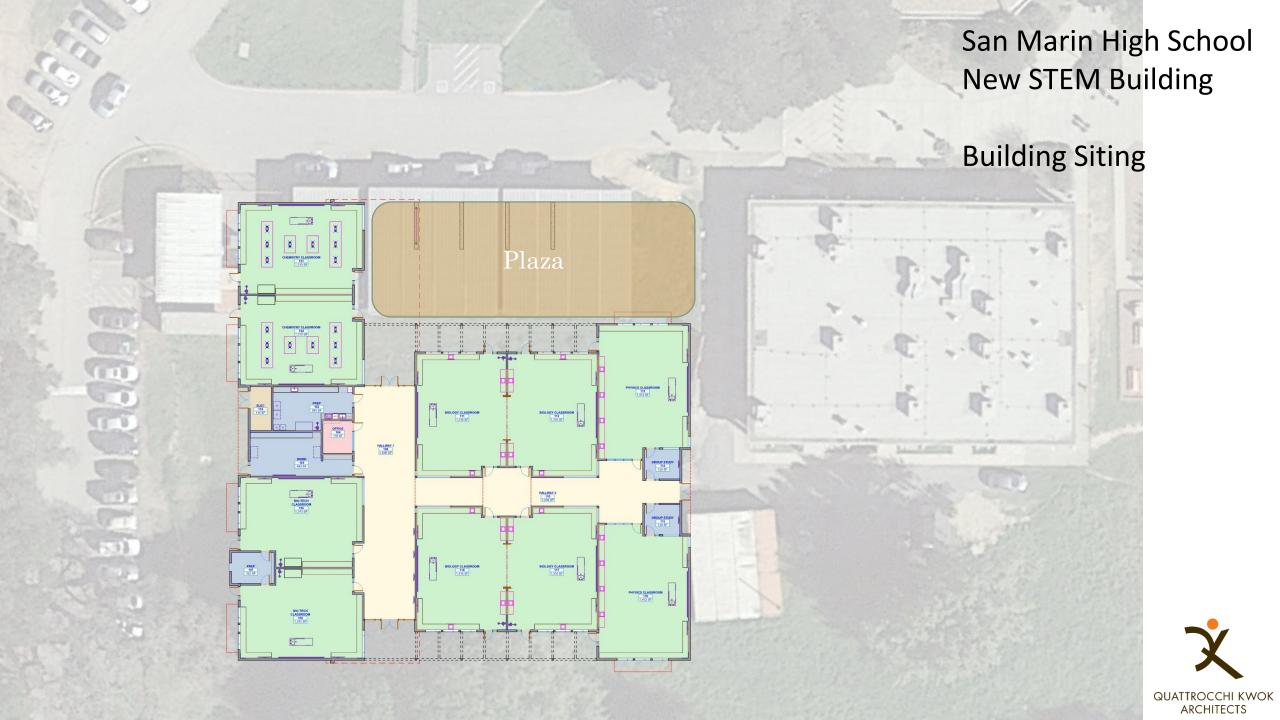




San Marin High School New STEM Building

Initial Concept Sketch















New STEM Building







Cost Estimate

Project Cost

Description	Quantity	U	nit Cost	Subtotal	
Construction Budget	1 ls			\$	9,559,569
Design Contingency	10 %			\$	955,957
Construction Contingency	10 %			\$	955,957
Architect Fees	1 ls			\$	665,478
Architect Contingency	1 ls			\$	95,596
Architect Reimbursable Expenses	1 ls			\$	33,274
Misc Consultants	1 ls	\$	50,000	\$	50,000
Blueprinting	1 ls			\$	10,000
Topographic Survey	1 ls	\$	10,000	\$	10,000
Soils Report & Testing	1 %			\$	95,596
CM Fees	1 ls			\$	569,883
DSA Inspector	13 mos.	\$	14,800	\$	192,400
Testing Laboratory	1 %			\$	95,596
Bid Advertisements	1 ls			\$	5,000
DSA Fees	0.09 %			\$	103,243
CGS Fees	1 ls	\$	3,600	\$	3,600
CEQA	1 ls	\$	10,000	\$	10,000
FF&E	1 ls	\$	300,000	\$	300,000
Utility Fees	1 ls	\$	25,000	\$	25,000
Legal	1 ls	\$	10,000	\$	10,000
Moving Expenses	1 ls	\$	10,000	\$	10,000
Misc. Expenses	1 ls	\$	50,000	\$	50,000

Total Estimated Project Cost \$ 13,806,149

SMHS Stem Update 4.20.18

ID		Task		Duration Start	Start	Finish		Warning and the same of the sa		
		Mode					2017	2018	2019	2020
1		A	Form Design Committee	30 days	Mon 8/21/17	A 2		1		
2		78	Program Meetings	46 days		Mon 12/4/17				
3		No	Schematic Design	95 days	Tue 12/5/17	Mon 4/16/18				
4		N	Schematic Estimate	6 days	Tue 4/17/18	Tue 4/24/18		7		
5		THE	BOT Approval Schematic	1 day	Tue 5/8/18	Tue 5/8/18		15		
6		250	Soils Report	40 days	Wed 5/9/18	Tue 7/3/18		ďo j		
7		No	Design Development	80 days	Wed 5/9/18	Tue 8/28/18		2	1	
8		MA	CGS Review	60 days	Wed 7/4/18	Tue 9/25/18		Ž.	9	
9		7P	Construction Documents	60 days	Wed 8/29/18	Tue 11/20/18		i		
10		78	DSA Submittal	3 days	Wed 11/21/18	Fri 11/23/18			主	
11		A	DSA Review	80 days	Mon 11/26/18	Fri 3/15/19				
12		N	DSA Back Check	5 days	Mon 3/18/19	Fri 3/22/19			I I	
13		N	Bid & Award	42 days	Mon 3/25/19	Tue 5/21/19			Ža-	
14		20	Bonds & Insurance	5 days	Wed 5/22/19	Tue 5/28/19			T.	
15		78	Legal Review	2 days	Wed 5/29/19	Thu 5/30/19			=	
16		NA	Notice to Proceed	1 day	Fri 5/31/19	Fri 5/31/19			Ŧ,	
17		THE	Mobilization	5 days	Mon 6/10/19	Fri 6/14/19			I	
18	1	THE	Last Day of School	1 day	Thu 6/13/19	Thu 6/13/19		7	H	
19		A	Earthwork & Utilities	30 days		Thu 7/25/19			*	
20		A	Foundations	40 days	Fri 7/26/19	Thu 9/19/19			*	
21		7800	Building Shell	60 days	Fri 9/20/19	Thu 12/12/19			2	
22		7800	Systems install	80 days		Thu 4/2/20				
23	1	N	Finishes	60 days	Fri 4/3/20	Thu 6/25/20				200
24		78/2	Punch / Test /Sell	30 days	Fri 6/26/20	Thu 8/6/20				
25		T	Occupancy	11 days		Fri 8/14/20				L)a



San Marin High School Performing Arts Center (PAC)

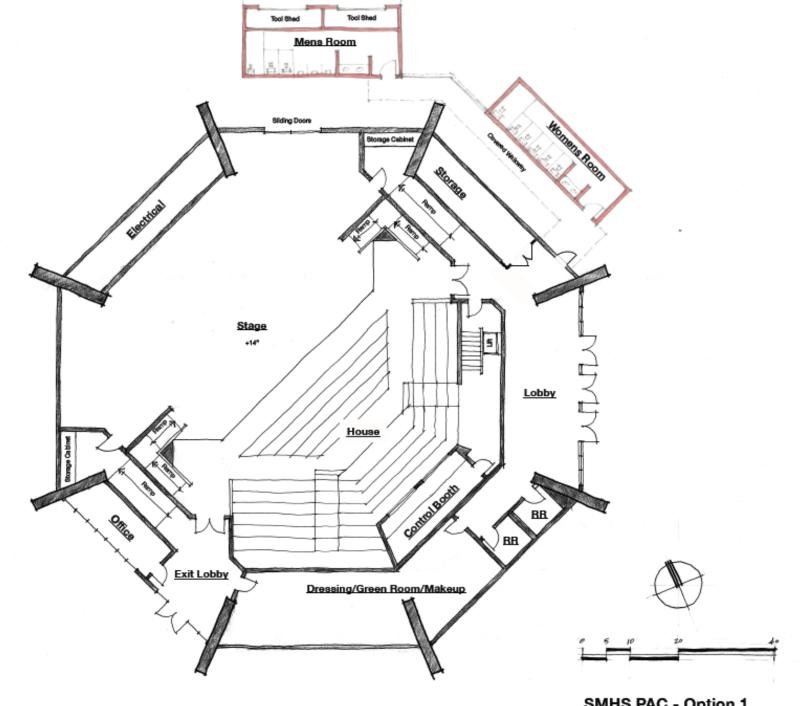


Renovation Restrictions

- Original construction ~ octagon-shaped cafeteria
- Low perimeter ceilings, high center dome
- Pre-tension structure
 - Inability to modify floor/foundation
 - > Inability to add loads to existing structural members
- DSA structural wall rule triggers seismic upgrades
- Existing building is 40+ year old (service life)

Renovation Option 1

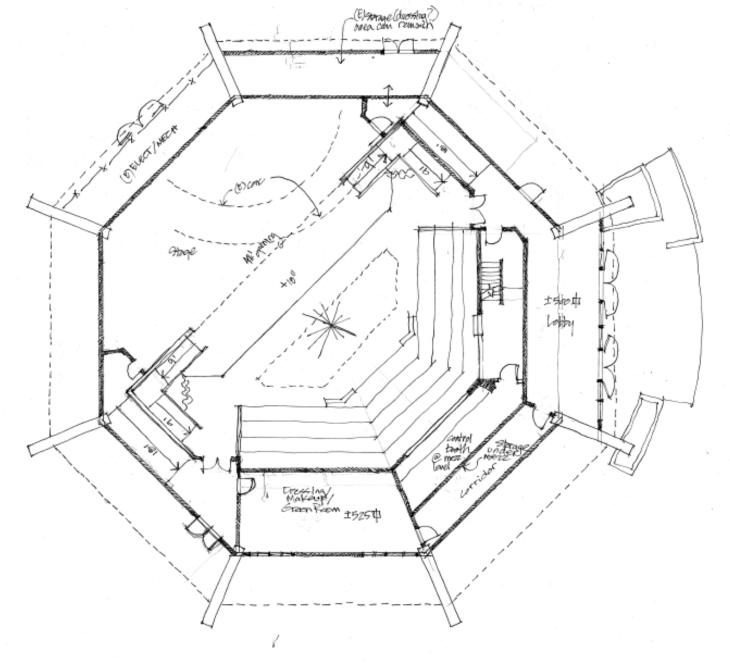
- 250-seat capacity
- Stage area & control booth
- Dressing rooms, green room & make-up area
- Lobby, exit lobby & office
- Audience restrooms & student restrooms
- · Mechanical spaces, storage & circulation space
- Expanded ft² estimated cost of \$8.1 million



SMHS PAC - Option 1

Renovation Option 2

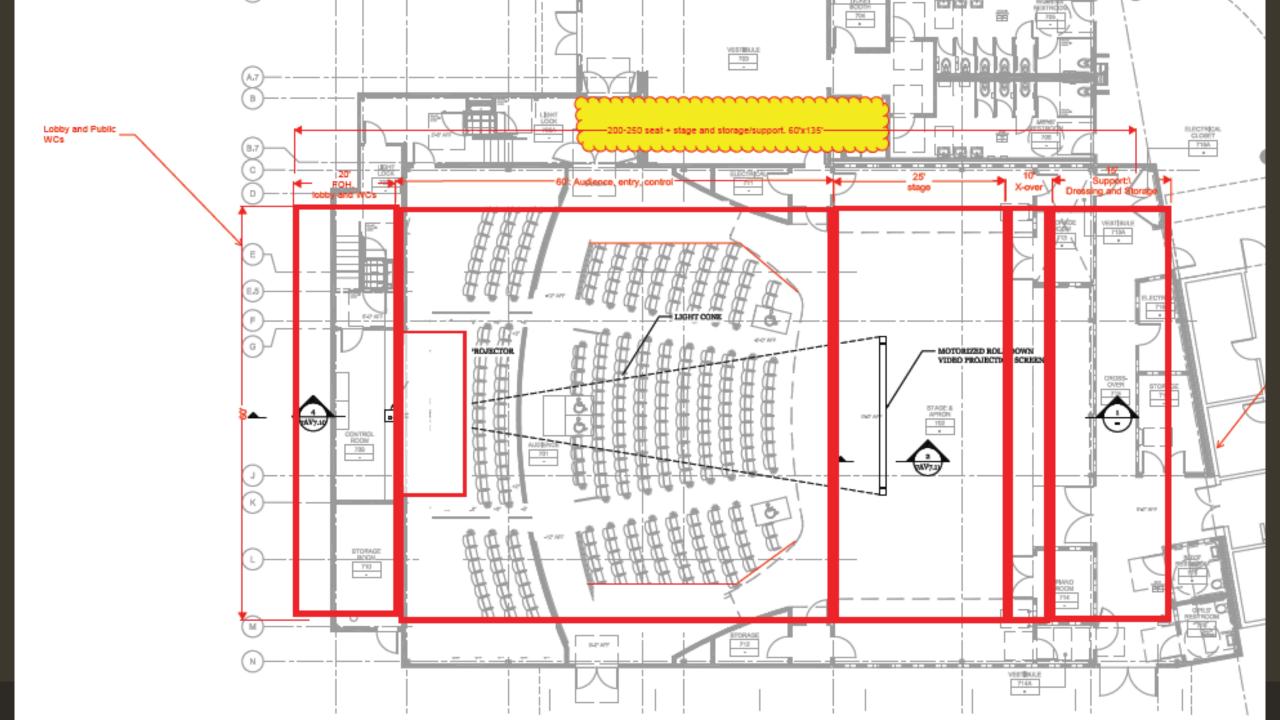
- 250-seat capacity
- Reduced stage area & control booth
- Smaller dressing rooms, green room & make-up area
- Lobby, exit lobby & office
- No audience or student restrooms
- Mechanical spaces, less storage & circulation space
- Same ft² estimated cost of \$6.5 million

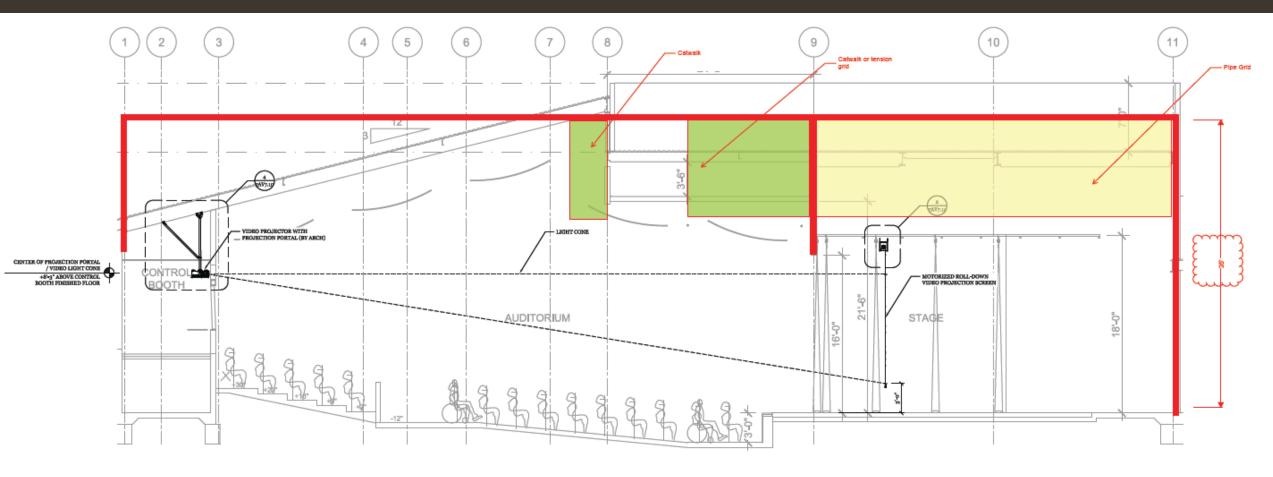


SAN MARIN PAC 3.12.18 1/8" = 1'-0"

New Construction Option

- 200 to 250-seat capacity stadium seating
- Provides all program needs in theater building
- New construction (50-year service life)
- No renovation no construction restrictions
- Options for building shape & orientation
- \$7.25 million cost estimate





AUDIO COVERAGE SECTION

Board Approval

- Develop "Build New" option:
 - > Cost falls between renovation options

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\$6.5M > \$7.25M > \$8.1M
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- ➤ New construction vs. renovation to 40-year old facility
- Constructs true Performing Arts Center facility (not a modified cafeteria)
- > Fits within existing footprint on San Marin campus

Questions?