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PSR Options Cost Estimate

Lexington High School

Town of Lexington, MA

Prepared for:

Dore + Whittier

October 7, 2024



Lexington High School
Town of Lexington, MA
7-Oct-24

PSR Options Cost Estimate

INTRODUCTION

NOTE: The costs for the various PSR Options indicated above are intended to be an analysis of the relative costs between options and NOT a prediction of the actual final cost of any individual option. Major variables such as geotechnical, site grading, structural system and final MEP systems have yet to be designed and costs will vary significantly from the benchmark cost estimating included as part of this PSR cost analysis. The costs outlined in this report should not be represented as the FINAL construction budget.

This PSR Design Submission cost estimate was produced from narratives and outline drawings dated September 27th, 2024 prepared by SMMA and their design team.

This estimate includes all direct construction costs, Construction Managers fee and design contingency. Cost escalation assumes start dates indicated.

Bidding conditions are expected to be public bidding under 149a of the Massachusetts General Laws to pre-qualified construction managers, and pre-qualified sub-contractors, open specifications for materials and manufacturers.

The estimate is based on prevailing wage rates for construction in this market and represents a reasonable opinion of cost. It is not a prediction of the successful bid from a contractor as bids will vary due to fluctuating market conditions, errors and omissions, proprietary specifications, lack or surplus of bidders, perception of risk, etc. Consequently the estimate is expected to fall within the range of bids from a number of competitive contractors or subcontractors, however we do not warrant that bids or negotiated prices will not vary from the final construction cost estimate.

ITEMS NOT CONSIDERED IN THIS ESTIMATE

Items not included in this estimate are:

All professional fees and insurance
Building Permit costs
Rock excavation other than allowances included in estimate
Land acquisition, feasibility, and financing costs
All Furnishings, Fixtures and Equipment
Items identified in the design as Not In Contract (NIC)
Items identified in the design as by others
Owner supplied and/or installed items (e.g. fixtures, furniture and equipment)
Utility company back charges, including work required off-site
Work to City streets and sidewalks, (except as noted in this estimate)



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PSR PRICING OPTIONS

MAIN CONSTRUCTION COST SUMMARY

	Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION A.1 - Base Repair/Code Update	352,000	\$654.34	\$230,327,240
OPTION B.1 - Add/Reno Quad	440,816	\$1,118.64	\$493,113,002
OPTION B.4 - Add/Reno Figure Eight	440,816	\$1,116.74	\$492,275,055
OPTION C1d - New Construction Branch	440,816	\$1,074.91	\$473,839,290
OPTION C2b - New Construction Braid	440,816	\$1,062.07	\$468,179,460
OPTION C5b - New Construction Bloom	440,816	\$1,078.95	\$475,619,351
OPTION D.2 - New Construction Phased in Place	440,816	\$1,143.01	\$503,855,866
Breakout/Alternate Pricing (Includes all markups)			
F.1 New FH OPTION 1	36,000	\$854.49	\$30,761,771
F.2 New FH OPTION 2	72,000	\$788.95	\$56,804,589
G.1 Add/Reno FH OPTION 3	48,000	\$700.08	\$33,604,013
F.3 New FH OPTION 4	60,000	\$809.93	\$48,596,066
G.o Renovate FH OPTION $_{5}$	34,000	\$644.65	\$21,918,092
G.2 Renovate FH OPTION 6	34,600	\$56.89	\$1,968,552
Central Office	20,700	\$957.09	\$19,811,723
Mass Timber Structure - OPTION A		ADD	\$12,227,320
Mass Timber Structure - OPTION B		ADD	\$9,107,490
Mass Timber Structure - OPTION C		ADD	\$2,212,000
HVAC ALTERNATE (ASHP) - Includes C2 Softball Field Credit		DEDUCT	(\$16,058,560)

NOTE: It is our opinion that any cost premiums associated with the radial footprint options (Branch, Bloom + Braid) are de minimis and are not a cost factor in determining the relative costs between options.

NOTE: Mass Timber Options need to vetted with manufacturers + installers which will require more design information; Pricing above needs verification

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	Start Date	Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION A.1 - Base Repair/Code U	Jpdate			
CODE UPGRADES TO EXISTING SCHOOL		352,000	\$400.00	\$140,800,000
REMOVE HAZARDOUS MATERIALS ¹ TRANSITE PIPE REMOVAL				\$2,100,000 \$1,000,000
SITEWORK - Allowance (code upgrades only) SITEWORK - Premium Contaminated Soils				\$7,000,000 NIC
SUB-TOTAL	Jun-27	352,000	\$428.69	\$150,900,000
ESCALATION TO MID-POINT	8.40%			\$12,675,600
DESIGN AND PRICING CONTINGENCY	15.0%			\$24,536,340
SUB-TOTAL		352,000	\$534.41	\$188,111,940
GENERAL CONDITIONS GENERAL REQUIREMENTS PHASING BONDS INSURANCES PERMIT	36 4.00% 3.00% 0.75% 2.00%	MTHS	\$350,000	\$12,600,000 \$7,524,478 \$5,643,358 \$1,410,840 \$3,762,239 Excl
SUB-TOTAL				\$219,052,855
CM FEE GMP CONTINGENCY	3.0% 2.5%			\$6,571,586 \$4,702,799
MODULAR CLASSROOMS				Excluded
TOTAL OF ALL CONSTRUCTION		352,000	\$654.34	\$230,327,240

¹ Costs from CDW report



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	Start Date		Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION B.1 - Add/Reno Quad					
NEW ADDITION + RENOVATE EXISTING SCHOOL			440,816	\$622.59	\$274,448,126
DEMOLITION			234,150	\$12.00	\$2,809,800
REMOVE HAZARDOUS MATERIALS ¹ TRANSITE PIPE REMOVAL					\$2,100,000 \$1,000,000
SITEWORK -Allowance SITEWORK - Premium Contaminated Soils		_			\$32,850,758 \$1,000,000
SUB-TOTAL	Jun-27	-	440,816	\$712.79	\$314,208,684
ESCALATION TO MID-POINT	12.90%				\$40,532,920
DESIGN AND PRICING CONTINGENCY	15.0%				\$53,211,241
SUB-TOTAL		-	440,816	\$925.45	\$407,952,845
GENERAL CONDITIONS GENERAL REQUIREMENTS PHASING BONDS INSURANCES PERMIT	4.00% 2.00% 0.75% 2.00%	72	MTHS	\$350,000	\$25,200,000 \$16,318,114 \$8,159,057 \$3,059,646 \$8,159,057 Excl
SUB-TOTAL CM FEE GMP CONTINGENCY	3.0% 2.5%	_			\$468,848,719 \$14,065,462 \$10,198,821
MODULAR CLASSROOMS					Excluded
TOTAL OF ALL CONSTRUCTION			440,816	\$1,118.64	\$493,113,002

¹ Costs from CDW report



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	Start Date	Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION B.4 - Add/Reno Figure Eigl	ht			
NEW ADDITION + RENOVATE EXISTING SCHOOL		440,816	\$613.91	\$270,622,200
DEMOLITION		179,740	\$12.00	\$2,156,880
REMOVE HAZARDOUS MATERIALS ¹ TRANSITE PIPE REMOVAL				\$2,100,000 \$1,000,000
SITEWORK - Allowance SITEWORK - Premium Contaminated Soils				\$31,642,436 \$1,000,000
SUB-TOTAL	Jun-27	440,816	\$699.89	\$308,521,516
ESCALATION TO MID-POINT	13.40%			\$41,341,883
DESIGN AND PRICING CONTINGENCY	15.0%			\$52,479,510
SUB-TOTAL		440,816	\$912.72	\$402,342,909
GENERAL CONDITIONS GENERAL REQUIREMENTS PHASING BONDS INSURANCES PERMIT	76 4.00% 3.00% 0.75% 2.00%	MTHS	\$350,000	\$26,600,000 \$16,093,716 \$12,070,287 \$3,017,572 \$8,046,858 Excl
SUB-TOTAL				\$468,171,342
CM FEE GMP CONTINGENCY	3.0% 2.5%			\$14,045,140 \$10,058,573
MODULAR CLASSROOMS				NR
TOTAL OF ALL CONSTRUCTION		440,816	\$1,116.74	\$492,275,055

¹ Costs from CDW report



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	Start Date	Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION C1d - New Construction	Branch			
NEW CONSTRUCTION		440,816	\$626.26	\$276,065,091
DEMOLITION		320,720	\$10.00	\$3,207,200
REMOVE HAZARDOUS MATERIALS ¹ TRANSITE PIPE REMOVAL				\$2,100,000 \$1,000,000
SITEWORK -Allowance SITEWORK - Premium Contaminated Soils				\$35,966,651 \$1,000,000
SUB-TOTAL	Jun-27	440,816	\$724.43	\$319,338,942
ESCALATION TO MID-POINT	10.20%			\$32,572,572
DESIGN AND PRICING CONTINGENCY	15.0%			\$52,786,727
SUB-TOTAL		440,816	\$918.07	\$404,698,241
GENERAL CONDITIONS GENERAL REQUIREMENTS PHASING BONDS INSURANCES PERMIT	52 4.00% 0.75% 2.00%	MTHS	\$350,000	\$18,200,000 \$16,187,930 NR \$3,035,237 \$8,093,965 Excl
SUB-TOTAL				\$450,215,373
CM FEE GMP CONTINGENCY	3.0% 2.5%			\$13,506,461 \$10,117,456
TOTAL OF ALL CONSTRUCTION		440,816	\$1,074.91	\$473,839,290

¹ Costs from CDW report



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	Start Date		Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION C2b - New Construction Br	aid				
NEW CONSTRUCTION			440,816	\$615.65	\$271,388,482
DEMOLITION			320,720	\$10.00	\$3,207,200
REMOVE HAZARDOUS MATERIALS ¹ TRANSITE PIPE REMOVAL					\$2,100,000 \$1,000,000
SITEWORK -Allowance					\$36,671,757
SITEWORK - Premium Contaminated Soils		_			\$1,000,000
SUB-TOTAL	Jun-27		440,816	\$715.42	\$315,367,439
ESCALATION TO MID-POINT	10.20%				\$32,167,479
DESIGN AND PRICING CONTINGENCY	15.0%				\$52,130,238
SUB-TOTAL		-	440,816	\$906.65	\$399,665,156
GENERAL CONDITIONS GENERAL REQUIREMENTS PHASING BONDS INSURANCES PERMIT	4.00% 0.75% 2.00%	52	MTHS	\$350,000	\$18,200,000 \$15,986,606 NR \$2,997,489 \$7,993,303 Excl
SUB-TOTAL					\$444,842,554
CM FEE GMP CONTINGENCY	3.0% 2.5%				\$13,345,277 \$9,991,629
TOTAL OF ALL CONSTRUCTION			440,816	\$1,062.07	\$468,179,460

¹ Costs from CDW report



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	Start Date	Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION C5b - New Construction	Bloom			
NEW CONSTRUCTION		440,816	\$625.42	\$275,694,472
DEMOLITION		320,720	\$10.00	\$3,207,200
REMOVE HAZARDOUS MATERIALS ¹ TRANSITE PIPE REMOVAL				\$2,100,000 \$1,000,000
SITEWORK -Allowance				\$37,210,509
SITEWORK - Premium Contaminated Soils				\$1,000,000
SUB-TOTAL	Jun-27	440,816	\$726.41	\$320,212,181
ESCALATION TO MID-POINT	10.20%			\$32,661,642
DESIGN AND PRICING CONTINGENCY	15.0%			\$52,931,073
SUB-TOTAL		440,816	\$920.58	\$405,804,896
GENERAL CONDITIONS GENERAL REQUIREMENTS PHASING BONDS INSURANCES PERMIT	52 4.00% 0.75% 2.00%	MTHS	\$360,000	\$18,720,000 \$16,232,196 NR \$3,043,537 \$8,116,098 Excl
SUB-TOTAL				\$451,916,727
CM FEE GMP CONTINGENCY	3.0% 2.5%			\$13,557,502 \$10,145,122
TOTAL OF ALL CONSTRUCTION		440,816	\$1,078.95	\$475,619,351

¹ Costs from CDW report



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	Start Date	Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION D.2 - New Construction Ph	nased in Plac	ce		
NEW CONSTRUCTION		440,816	\$618.64	\$272,705,679
DEMOLITION		320,720	\$10.00	\$3,207,200
REMOVE HAZARDOUS MATERIALS ¹ TRANSITE PIPE REMOVAL				\$2,100,000 \$1,000,000
SITEWORK -Allowance SITEWORK - Premium Contaminated Soils				\$33,799,050 \$1,000,000
SUB-TOTAL	Jun-27	440,816	\$711.89	\$313,811,929
ESCALATION TO MID-POINT	13.90%			\$43,619,858
DESIGN AND PRICING CONTINGENCY	15.0%			\$53,614,768
SUB-TOTAL		440,816	\$932.47	\$411,046,555
GENERAL CONDITIONS GENERAL REQUIREMENTS PHASING BONDS INSURANCES PERMIT	78 4.00% 3.00% 0.75% 2.00%	MTHS	\$360,000	\$28,080,000 \$16,441,862 \$12,331,397 \$3,082,849 \$8,220,931 Excl
SUB-TOTAL				\$479,203,594
CM FEE GMP CONTINGENCY	3.0% 2.5%			\$14,376,108 \$10,276,164
TOTAL OF ALL CONSTRUCTION		440,816	\$1,143.01	\$503,855,866



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	Start Date	Gross Floor Area	\$/sf	Estimated Construction Cost
F.1 NEW FIELD HOUSE OPTION 1				
NEW CONSTRUCTION		36,000	\$455.68	\$16,404,658
PREMIUM FOR GEOTHERMAL				\$1,950,000
PREMIUM FOR PV				\$1,296,000
DEMOLITION		34,000	\$10.00	\$340,000
SITEWORK - Separate Utilities				\$250,000
SUB-TOTAL	Jun-28	36,000	\$562.24	\$20,240,658
ESCALATION TO MID-POINT	11.40%			\$2,307,435
DESIGN AND PRICING CONTINGENCY	15.0%			\$3,382,214
SUB-TOTAL		36,000	\$720.29	\$25,930,307
GENERAL CONDITIONS	6.00%			\$1,555,818
GENERAL REQUIREMENTS	4.00%			\$1,037,212
BONDS	0.75%			\$194,477
INSURANCES PERMIT	2.00%			\$518,606 Excl
SUB-TOTAL				\$29,236,420
CM FEE	3.0%			\$877,093
GMP CONTINGENCY	2.5%			\$648,258
TOTAL OF ALL CONSTRUCTION		36,000	\$854.49	\$30,761,771



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	Start Date	Gross Floor Area	\$/sf	Estimated Construction Cost
F.2 NEW FIELD HOUSE OPTION 2				
NEW CONSTRUCTION		72,000	\$420.75	\$30,294,335
PREMIUM FOR GEOTHERMAL				\$3,900,000
PREMIUM FOR PV				\$2,592,000
DEMOLITION		34,000	\$10.00	\$340,000
SITEWORK - Separate Utilities				\$250,000
SUB-TOTAL	Jun-28	72,000	\$519.12	\$37,376,335
ESCALATION TO MID-POINT	11.40%			\$4,260,902
DESIGN AND PRICING CONTINGENCY	15.0%			\$6,245,586
SUB-TOTAL		72,000	\$665.04	\$47,882,823
GENERAL CONDITIONS	6.00%			\$2,872,969
GENERAL REQUIREMENTS	4.00%			\$1,915,313
BONDS	0.75%			\$359,121
INSURANCES PERMIT	2.00%			\$957,656 Excl
SUB-TOTAL				\$53,987,882
CM FEE	3.0%			\$1,619,636
GMP CONTINGENCY	2.5%			\$1,197,071
TOTAL OF ALL CONSTRUCTION		72,000	\$788.95	\$56,804,589



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	Start Date	Gross Floor Area	\$/sf	Estimated Construction Cost
G.1 ADD/RENO FIELD HOUSE O	PTION 3			
RENOVATION/ADDITION		48,000	\$365.27	\$17,532,798
PREMIUM FOR GEOTHERMAL				\$2,600,000
PREMIUM FOR PV				\$1,728,000
DEMOLITION				NR
SITEWORK - Separate Utilities				\$250,000
SUB-TOTAL	Jun-28	48,000	\$460.64	\$22,110,798
ESCALATION TO MID-POINT	11.40%			\$2,520,631
DESIGN AND PRICING CONTINGENCY	15.0%			\$3,694,714
SUB-TOTAL		48,000	\$590.13	\$28,326,143
GENERAL CONDITIONS	6.00%			\$1,699,569
GENERAL REQUIREMENTS	4.00%			\$1,133,046
BONDS	0.75%			\$212,446
INSURANCES PERMIT	2.00%			\$566,523 Excl
SUB-TOTAL				\$31,937,727
CM FEE	3.0%			\$958,132
GMP CONTINGENCY	2.5%			\$708,154
TOTAL OF ALL CONSTRUCTION		48,000	\$700.08	\$33,604,013



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	Start Date	Gross Floor Area	\$/sf	Estimated Construction Cost
F.3 NEW FIELD HOUSE OPTION 4				
NEW CONSTRUCTION		60,000	\$432.92	\$25,975,283
PREMIUM FOR GEOTHERMAL				\$3,250,000
PREMIUM FOR PV				\$2,160,000
DEMOLITION		34,000	\$10.00	\$340,000
SITEWORK - Separate Utilities				\$250,000
SUB-TOTAL	Jun-28	60,000	\$532.92	\$31,975,283
ESCALATION TO MID-POINT	11.40%			\$3,645,182
DESIGN AND PRICING CONTINGENCY	15.0%			\$5,343,070
SUB-TOTAL		60,000	\$682.73	\$40,963,535
GENERAL CONDITIONS	6.00%			\$2,457,812
GENERAL REQUIREMENTS	4.00%			\$1,638,541
BONDS	0.75%			\$307,227
INSURANCES	2.00%			\$819,271
PERMIT				Excl
SUB-TOTAL				\$46,186,386
CM FEE	3.0%			\$1,385,592
GMP CONTINGENCY	2.5%			\$1,024,088
TOTAL OF ALL CONSTRUCTION		60,000	\$809.93	\$48,596,066



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	Start Date	Gross Floor Area	\$/sf	Estimated Construction Cost
G.o RENO FIELD HOUSE OPTION 5				
RENOVATION		34,000	\$326.65	\$11,106,019
PREMIUM FOR GEOTHERMAL				\$1,841,667
PREMIUM FOR PV				\$1,224,000
DEMOLITION				NR
SITEWORK - Separate Utilities				\$250,000
SUB-TOTAL	Jun-28	34,000	\$424.17	\$14,421,686
ESCALATION TO MID-POINT	11.40%			\$1,644,072
DESIGN AND PRICING CONTINGENCY	15.0%			\$2,409,864
SUB-TOTAL		34,000	\$543.40	\$18,475,622
GENERAL CONDITIONS	6.00%			\$1,108,537
GENERAL REQUIREMENTS	4.00%			\$739,025
BONDS	0.75%			\$138,567
INSURANCES PERMIT	2.00%			\$369,512 Excl
SUB-TOTAL				\$20,831,263
CM FEE	3.0%			\$624,938
GMP CONTINGENCY	2.5%			\$461,891
TOTAL OF ALL CONSTRUCTION		34,000	\$644.65	\$21,918,092



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	Start Date	Gross Floor Area	\$/sf	Estimated Construction Cost
G.2 RENO FIELD HOUSE OPTION 6				
RENOVATION		34,600	\$35.99	\$1,245,270
PREMIUM FOR GEOTHERMAL PREMIUM FOR PV				NR NR
DEMOLITION				NR
SITEWORK - Separate Utilities				\$50,000
SUB-TOTAL	Jun-28	34,600	\$37.44	\$1,295,270
ESCALATION TO MID-POINT	11.40%			\$147,661
DESIGN AND PRICING CONTINGENCY	15.0%			\$216,440
SUB-TOTAL		34,600	\$47.96	\$1,659,371
GENERAL CONDITIONS	6.00%			\$99,562
GENERAL REQUIREMENTS	4.00%			\$66,375
BONDS	0.75%			\$12,445
INSURANCES PERMIT	2.00%			\$33,187 Excl
SUB-TOTAL				\$1,870,940
CM FEE	3.0%			\$56,128
GMP CONTINGENCY	2.5%			\$41,484
TOTAL OF ALL CONSTRUCTION		34,600	\$56.89	\$1,968,552



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	Start Date	Gross Floor Area	\$/sf	Estimated Construction Cost
H.1 NEW POOL				
NEW POOL BUILDING		16,400	\$650.00	\$10,660,000
PREMIUM FOR GEOTHERMAL PREMIUM FOR PV				\$2,625,000 \$354,240
DEMOLITION				NR
SITEWORK - Separate Utilities				\$250,000
SUB-TOTAL	Jun-28	16,400	\$846.90	\$13,889,240
ESCALATION TO MID-POINT	11.40%			\$1,583,373
DESIGN AND PRICING CONTINGENCY	15.0%			\$2,320,892
SUB-TOTAL		16,400	\$1,084.97	\$17,793,505
GENERAL CONDITIONS	6.00%			\$1,067,610
GENERAL REQUIREMENTS	4.00%			\$711,740
PHASING BONDS	2.00% 0.75%			\$355,870
INSURANCES	2.00%			\$133,451 \$355,870
PERMIT	2.00%			Excl
SUB-TOTAL				\$20,418,046
CM FEE	3.0%			\$612,541
GMP CONTINGENCY	2.5%			\$444,838
TOTAL OF ALL CONSTRUCTION		16,400	\$1,309.48	\$21,475,425



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	Start Date	Gross Floor Area	\$/sf	Estimated Construction Cost
CENTRAL OFFICE				
NEW CONSTRUCTION		20,700	\$500.00	\$10,350,000
PREMIUM FOR GEOTHERMAL				\$750,000
PREMIUM FOR PV				\$432,000
SITEWORK -Allowance for 100 car spots				\$1,000,000
SUB-TOTAL	Jun-26	20,700	\$605.41	\$12,532,000
ESCALATION TO MID-POINT	13.90%			\$1,741,948
DESIGN AND PRICING CONTINGENCY	15.0%			\$2,141,092
SUB-TOTAL		20,700	\$793.00	\$16,415,040
GENERAL CONDITIONS	6.00%			\$984,902
GENERAL REQUIREMENTS	4.00%			\$656,602
PHASING	2.00%			\$328,301
BONDS	0.75%			\$123,113
INSURANCES PERMIT	2.00%			\$328,301 Excl
SUB-TOTAL				\$18,836,259
CM FEE	3.0%			\$565,088
GMP CONTINGENCY	2.5%			\$410,376
TOTAL OF ALL CONSTRUCTION		20,700	\$957.09	\$19,811,723



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GFA 440,816

		CONSTRUCT	TION COST SUMMA	ARY		
	BUILDIN	G SYSTEM	SUB-TOTAL	TOTAL	\$/SF	%
BUILDIN	NG SUMI	MARY - OPTION B.1				
A10	FOUNI	DATIONS				
	A1010	Standard Foundations	\$5,019,491			
	A1020	Special Foundations	\$6,040,405			
	A1030	Lowest Floor Construction	\$5,305,026	\$16,364,922	\$37.12	6.0%
A20	BASEN	IENT CONSTRUCTION				
	A2010	Basement Excavation	\$o			
	A2020	Basement Walls	\$ 0	\$0	\$0.00	0.0%
В10	SUPER	STRUCTURE				
	B1010	Upper Floor Construction	\$13,081,193			
	B1020	Roof Construction	\$9,333,996	\$22,415,189	\$50.85	8.2%
B20	EXTER	IOR CLOSURE				
	B2010	Exterior Walls	\$20,350,566			
	B2020	Windows	\$9,009,917			
	B2030	Exterior Doors	\$440,816	\$29,801,299	\$67.60	10.9%
Взо	ROOFI	NG				
	B3010	Roof Coverings	\$9,179,923			
	B3020	Roof Openings	\$54,000	\$9,233,923	\$20.95	3.4%
C10	INTER	IOR CONSTRUCTION				
	C1010	Partitions	\$19,786,516			
	C1020	Interior Doors	\$5,399,528			
	C1030	Specialties/Millwork	\$6,680,093	\$31,866,137	\$72.29	11.6%
C20	STAIR	CASES				
	C2010	Stair Construction	\$1,162,250			
	C2020	Stair Finishes	\$340,000	\$1,502,250	\$3.41	0.5%
С30	INTER	IOR FINISHES				
	C3010	Wall Finishes	\$7,493,872			
	C3020	Floor Finishes	\$7,045,090			
	C3030	Ceiling Finishes	\$6,612,240	\$21,151,202	\$47.98	7.7%
D10	CONVE	EYING SYSTEMS				
	D1010	Elevator	\$1,207,200	\$1,207,200	\$2.74	0.4%



Lexington High School Town of Lexington, MA

PSR Options Cost Estimate

07-Oct-24

GFA

440,816

	BUILDING	a arramas s				
		SYSTEM	SUB-TOTAL	TOTAL	\$/SF	%
UILDIN	G SUMN	MARY - OPTION B.1				
D20	PLUMB	ING				
	D20	Plumbing	\$13,342,848	\$13,342,848	\$30.27	4.9%
D30	HVAC					
	D30	HVAC	\$62,423,440	\$62,423,440	\$141.61	22.7%
D40	FIRE PI	ROTECTION				
	D40	Fire Protection	\$4,117,344	\$4,117,344	\$9.34	1.5%
D50	ELECTI	RICAL				
	D5010	Complete System	\$48,579,300	\$48,579,300	\$110.20	17.7%
E10	EQUIP	MENT				
	E10	Equipment	\$5,111,385	\$5,111,385	\$11.60	1.9%
E20	FURNIS	SHINGS				
	E2010	Fixed Furnishings	\$5,704,012			
	E2020	Movable Furnishings	NIC	\$5,704,012	\$12.94	2.1%
F10	SPECIA	L CONSTRUCTION				
	F10	Special Construction	\$150,000	\$150,000	\$0.34	0.1%
F20	HAZMA	AT REMOVALS				
	F2010	Building Elements Demolition	\$1,477,675			
	F2020	Hazardous Components Abatement	\$ 0	\$1,477,675	\$3.35	0.5%
	- DID=	CT COST (Trade Costs)		\$274,448,126	\$622.59	100.0%





PSR Options Cost Estimate GFA 440,816

CSI				UNIT	EST'D	SUB	TOTAL	l
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST	l

BUILDING BACKUP - OPTION B.1

GROSS FLOOR AREA CALCULATION

 Level 1
 172,583

 Level 2
 61,437

 Level 3
 60,113

 Level 4
 60,113

 Heavy Renovation
 86,570

TOTAL GROSS FLOOR AREA (GFA)	440,816 sf

A10	FOUNDATIONS					
A1010	STANDARD FOUNDATIONS					
	Strip Footings; 1 x 3					
	Formwork	6,388	sf	15.00	95,820	
	Re-bar	42,161	lbs.	2.50	105,403	
	Concrete material	373	cy	160.00	59,680	
	Placing concrete	373	cy	120.00	44,760	
	Perimeter foundation walls; 20" Thick x 3.5 ft H					
	Formwork	22,358	sf	21.00	469,518	
	Re-bar	55,895	lbs.	2.50	139,738	
	Concrete material	726	cy	160.00	116,160	
	Placing concrete	726	cy	120.00	87,120	
	Form shelf	3,194	lf	8.00	25,552	
	Spread Footings; 9 x 9 x 2 (Three Story)	281	ea			
	Formwork	20,232	sf	18.00	364,176	
	Re-bar	136,566	lbs.	2.50	341,415	
	Concrete material	1,770	cy	160.00	283,200	
	Placing concrete	1,770	cy	120.00	212,400	
	Set anchor bolts grout plates	281	ea	250.00	70,250	
	Spread Footings; 10 x 10 x 2 (Four Story)	150	ea			
	Formwork	12,000	sf	18.00	216,000	
	Re-bar	90,000	lbs.	2.50	225,000	
	Concrete material	1,167	cy	160.00	186,720	
	Placing concrete	1,167	cy	120.00	140,040	
	Set anchor bolts grout plates	150	ea	250.00	37,500	
	Piers	431	ea			
	Formwork	5,172	sf	24.00	124,128	
	Re-bar	58,185	lbs	2.50	145,463	
	Concrete material	201	cy	160.00	32,160	
	Placing concrete	201	cy	160.00	32,160	
	Housekeeping pads	1	ls	30,000.00	30,000	
0001	WATERPROOFING, DAMPPROOFING AND CAULKING					
	Damproofing @ foundation wall	12,776	sf	4.00	51,104	
2100	THERMAL INSULATION					
	Rigid insulation to face of foundation wall; 4" R-20	12,776	sf	5.00	63,880	
	Brick Shelf 4" insulation	3,194	lf	20.00	63,880	
2000	EARTHWORK					
	Strip footings					
	Excavation	3,549	cy	14.00	49,686	
	Reuse excess material on site	1,099	cy	15.00	16,485	
	Backfill with select fill	2,450	cy	25.00	61,250	
	Spread footings					
	Excavation	8,237	cy	14.00	115,318	
	Reuse excess material on site	3,138	cy	15.00	47,070	
	Backfill with select fill	5,099	cy	25.00	127,475	
	Miscellaneous		-	-		





PSR Options Cost Estimate GFA 440,816

	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
DING BA	CKUP - OPTION B.1						
	Foundation drain	3,194	lf	30.00	95,820		
	New brick ledge tied to existing foundation wall	1,387	lf	200.00	277,400		
	Excavation + backfill to expose existing foundations	822	cy	80.00	65,760		
	New foundations in existing building for bracing etc.	1	ls	150,000.00	150,000		
	Temporary dewatering for foundation work	1	ls	250,000.00	250,000		
	SUBTOTAL					5,019,491	
A1020	SPECIAL FOUNDATIONS						
	Rigid inclusions	172,583	sf	35.00	6,040,405		
	SUBTOTAL					6,040,405	
A1030	LOWEST FLOOR CONSTRUCTION						
033000	CONCRETE						
	Vapor barrier, 15mils	172,583	sf	1.25	215,729		
	Slab on grade	172,583	sf				
	WWF reinforcement	198,470	sf	1.85	367,170		
	Concrete - 5" thick	2,752	cy	170.00	467,840		
	Placing concrete	2,752	cy	65.00	178,880		
	Finishing and curing concrete	172,583	sf	3.00	517,749		
	Control joints - saw cut	172,583	sf	0.10	17,258		
	Miscellaneous						
	Patch existing floors	48,870	sf	5.00	244,350		
	Equipment pads	1	ls	30,000.00	30,000		
	Loading dock	1	ls	50,000.00	50,000		
	Elevator pits	3	ea	40,000.00	120,000		
	Radon system				Excluded; NR		
072100	THERMAL INSULATION						
	Perimeter insulation, 4" thick R-20 - 6ft at perimeter	19,164	sf	5.00	95,820		
	Under slab insulation, 2" thick under slab	153,419	sf	3.00	460,257		
312000	EARTHWORK						
	Gravel base, 12"	6,392	cy	45.00	287,640		
	Structural fill	28,400	cy	55.00	1,562,000		
	Allowance for underslab drainage	172,583	sf	2.00	345,166		
	Compact existing sub-grade	172,583	sf	0.50	86,292		
	Underslab E&B for plumbing	172,583	sf	1.50	258,875		
	SUBTOTAL					5,305,026	

TOTAL - FOUNDATIONS \$16,364,922

A20 BASEMENT CONSTRUCTION

A2010 BASEMENT EXCAVATION

No Work in this section

SUBTOTAL

A2020 BASEMENT WALLS

No Work in this section $\,$

SUBTOTAL

TOTAL - BASEMENT CONSTRUCTION

B10 SUPERSTRUCTURE

B1010 FLOOR CONSTRUCTION

11.6 lbs/sf 2,564 tns include

2,564 tns including canopies + roof screens

\$6,680 *\$/Ton*

033000 CONCRETE

WWF reinforcement 208,912 sf 1.85 386,487 Concrete Fill to metal deck; lightweight, total thickness 6 $\ensuremath{\text{1/4}}\xspace"$ 698,060 3,674 cy 190.00 Place and finish concrete 181,663 sf 3.00 544,989 Rebar to decks 54,499 lbs 2.00 108,998

051200 STRUCTURAL STEEL FRAMING





440,816 GFA PSR Options Cost Estimate

				UNIT	EST'D	SUB	TOTAL
	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
DING BA	CKUP - OPTION B.1						
	Structural steel framing; Complete; 15 lbs per SF	1,362	tns	5,000.00	6,810,000		
	New bracing steel at existing; 1 PSF	43	tns	8,000.00	344,000		
	Steel premium for lateral system due to poor soils; 1 PSF	91	tns	5,000.00	455,000		
	Moment connections	68	ea	750.00	51,000		
	Shear studs	45,416	ea	3.50	158,956		
	3" metal galvanized floor deck	181,663	sf	8.00	1,453,304		
	Expansion joints	1	ls	100,000.00	100,000		
	Seismic upgrades	86,570	sf	10.00	865,700		
078100	FIREPROOFING/FIRESTOPPING						
	Fire proofing to columns and beams; 2 hr	268,233	sf	3.00	804,699		
	Intumes cent paint $@$ architecturally exposed beams and columns - allow	1	ls	300,000.00	300,000		
	SUBTOTAL					13,081,193	
B1020	ROOF CONSTRUCTION						
033000	CONCRETE						
	$6^{\rm "}$ Normal weight concrete deck at low roof and at mechanical equipment pads	35,000	sf	9.00	315,000		
051200	STRUCTURAL STEEL FRAMING						
	Structural steel framing; Complete; 13 lbs per SF	1,122	tns	5,000.00	5,610,000		
	Structural steel framing; 2 lbs per SF premium at RTU's	35	tns	4,800.00	168,000		
	Steel premium for lateral system due to poor soils; 1 PSF	86	tns	5,000.00	430,000		
	Roof screens	80	tns	5,500.00	440,000		
	Decking						
	1 1/2" galvanized metal deck, typical	172,583	sf	7.00	1,208,081		
078100	FIREPROOFING/FIRESTOPPING						
	Fireproofing to columns, beams and deck; 1 hr - includes Intumescent	172,583	sf	5.00	862,915		
	Intumescent paint $@$ architecturally exposed beams and columns - allow	1	ls	300,000.00	300,000		
	SUBTOTAL					9,333,996	

B20	EXTERIOR CLOSURE				
B2010	EXTERIOR WALLS Exterior Wall Area	165,687 104,735		osure area area solid	
042000	MASONRY				
	Mockup	1	ls	100,000.00	100,000
	Brick veneer; 60% of Solid	43,311	sf	44.00	1,905,684
	Repoint existing brick	19,530	sf	45.00	878,850
	Granite veneer base; 2%	2,095	sf	120.00	251,400
	Precast trim allowance	1	ls	1,000,000.00	1,000,000
	4" CMU wall at auditorium	9,000	sf	30.00	270,000
	8" Mineral wool at exterior closure (2 layers 4")	104,735	sf	7.50	785,513
	Miscellaneous flashings and sealants	104,735	sf	1.50	157,103
	Staging to exterior wall	104,735	sf	4.00	418,940
055000	MISC. METALS				
	Misc. metals at masonry including loose lintels (relieving angles included in steel tns)	43,311	sf	1.50	64,967
070001	WATERPROOFING, DAMPPROOFING AND CAULKING				
	Air barrier	104,735	sf	10.00	1,047,350
	Miscellaneous sealants to closure	104,735	sf	1.00	104,735
072100	THERMAL INSULATION				
	4" cellulose insulation in stud	104,735	sf	3.25	340,389





PSR Options Cost Estimate GFA 440,816

	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
DING BA	CKUP - OPTION B.1					I .	
	Insulation at glazed openings	13,807	lf	6.00	82,842		
076400	CLADDING						
.,.,.	Composite metal panel, Alucobond or equal; 18%	18,852	sf	100.00	1,885,200		
	Terracotta; 20%	40,477	sf	160.00	6,476,320		
	12' high Acoustic Equipment Screen	16,000	sf	95.00	1,520,000		
	Canopies; soffit + framing	4,000	sf	100.00	400,000		
	EXPANSION JOINT COVERS						
	Thermal breaks	1	ls	50,000.00	50,000		
	Expansion joints	1	ls	100,000.00	100,000		
092900	GYPSUM BOARD ASSEMBLIES						
	Exterior wall;						
	6" Stud backup	104,735	sf	16.00	1,675,760		
	Gypsum Sheathing	104,735	sf	3.50	366,573		
	Drywall lining to interior face of stud backup	104,735	sf	4.00	418,940		
101400	SIGNAGE						
	Exterior signage - allowance	1	ls	50,000.00	50,000		
	SUBTOTAL					20,350,566	
B2020	WINDOWS						
	Exterior Wall Area	41,422	sf				
061000	ROUGH CARPENTRY						
	Wood blocking at openings	13,807	lf	10.00	138,070		
070001	WATERPROOFING, DAMPPROOFING AND CAULKING						
	Air barrier/flashing at windows	13,807	lf	10.00	138,070		
	Backer rod & double sealant	13,807	lf	11.00	151,877		
080001	METAL WINDOWS						
	Aluminum windows, triple glazed including interior and exterior trim per details	20,711	sf	175.00	3,624,425		
	Curtainwall, triple glazed including allowance for interior and exterior trim details	20,711	sf	225.00	4,659,975		
	Horizontal aluminum fin sunshades @ 40% of windows, custom color	1,700	lf	175.00	297,500		
089000	LOUVERS						
	Louvers				N/A		
	SUBTOTAL					9,009,917	
B2030	EXTERIOR DOORS						
	Allowance for exterior doors	440,816	gsf	1.00	440,816		
	SUBTOTAL					440,816	
	TOTAL - EXTERIOR CLOSURE						\$29,801,

Взо	ROOFING				
055000	MISCELLANOUS METALS				
	Terrace top rail/ladders/stairs	1	ls	80,000.00	80,000
061000	ROUGH CARPENTRY				
	Rough carpentry and blocking @ roof	224,978	sf	1.50	337,467
070002	ROOFING AND FLASHING	224,978	total area		
	PVC roof membrane system, white or gray, 1/2" coverboard, 10" polyiso insulation, vapor barrier	224,978	sf	33.00	7,424,274
	Canopy roofing	4,000	sf	28.00	112,000
	Plaza deck pavers system at terrace	4,661	sf	70.00	326,270
	Miscellaneous Roofing				
	Miscellaneous flashings/copings/walkway pads etc.	224,978	sf	4.00	899,912



\$9,233,923



PSR Options Cost Estimate GFA 440,816

CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

BUILDING BACKUP - OPTION B.1

SUBTOTAL 9,179,923

B3020 ROOF OPENINGS

086300 ROOF SKYLIGHTS

TOTAL - ROOFING

Aluminum framed skylight (4loc)

None Assumed

Smoke vents; 7'x7' 3 ea 18,000.00 54,000

SUBTOTAL 54,000

	TOTAL - ROOTING						Ψ9,≃3
C10	INTERIOR CONSTRUCTION						
C1010	PARTITIONS						
040001	MASONRY						
	Allowance for masonry partitions	440,816	gsf	6.00	2,644,896		
061000	ROUGH CARPENTRY						
	Backer panels in electrical closets	1	ls	10,000.00	10,000		
	Wood blocking at interiors	440,816	gsf	0.50	220,408		
078400	FIREPROOFING/FIRESTOPPING						
	Fire stopping including slab edges and core	440,816	gsf	1.00	440,816		
070001	WATERPROOFING, DAMPPROOFING AND CAULKING						
	Miscellaneous sealants throughout building	440,816	gsf	1.25	551,020		
078150	EXPANSION JOINTS						
	Allowance for expansion joint covers	1	ls	50,000.00	50,000		
081110	INTERIOR GLAZING						
	Allowance for interior glazing	440,816	gsf	3.00	1,322,448		
092900	GYPSUM BOARD ASSEMBLIES						
	Allowance for GWB partitions	440,816	gsf	33.00	14,546,928		
	SUBTOTAL					19,786,516	
C1020	INTERIOR DOORS						
	Doors, frames, hardware; complete	440,816	gsf	8.00	3,526,528		
	Fire shutters	1	ls	150,000.00	150,000		
	Security doors	16	loc	25,000.00	400,000		
	Premium for electronic hardware; Hardwired	882	set	1,500.00	1,323,000	0	
	SUBTOTAL					5,399,528	
C1030	SPECIALTIES / MILLWORK						
055000	MISCELLANEOUS METALS						
	Miscellaneous metals throughout building	440,816	gsf	5.00	2,204,080		
061000	ROUGH CARPENTRY						
062000	INTERIOR ARCHITECTURAL WOODWORK						
	Interior millwork package	440,816	gsf	3.00	1,322,448		
	WAYNA DIANAWAYANAARA						
101100	VISUAL DISPLAY SURFACES Mayleyboard and toolshoot poolege	440 946	aaf	0.00	881,632		
	Markerboard and tackboard package	440,816	gsf	2.00	001,032		
101400	SIGNAGE						
	Room identification, directional & safety signage, building directory + environmental graphics	440,816	gsf	2.00	881,632		
102800	TOILET ACCESSORIES						
	Toilet accessories/compartments	440,816	gsf	1.00	440,816		
104400	FIRE PROTECTION SPECIALTIES						



PSR Options Cost Estimate GFA 440,816

	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
DIC 5		VII	CIVII	5031	.031	TOTAL	2031
ING BA	CKUP - OPTION B.1	_	1	6= 0=o =r	6= 8=0		
	Fire extinguisher cabinets AED cabinets	1	ls ls	65,852.71 2,000.00	65,853 2,000		
	AED Capillets		15	2,000.00	2,000		
105000	LOCKERS						
	Student lockers	440,816	gsf	2.00	881,632		
	SUBTOTAL					6,680,093	
	TOTAL - INTERIOR CONSTRUCTION						\$31,86
C20	STAIRCASES						
	STAIR CONSTRUCTION						
033000	CONCRETE		α.		0		
	Concrete to stairs	17	flt	5,000.00	85,000		
055000	MISCELLANEOUS METALS						
	Egress stairs w/ stainless steel rails and handrails	14	flt	50,000.00	700,000		
	Projection room stair, 4' wide	1	flt	40,000.00	40,000		
	<u>Learning stair</u>						
	Stainless steel guardrail	65	lf	425.00	27,625		
	Stainless steel handrail	55	lf	175.00	9,625		
	Adjacent stairs; 5'-3" wide	2	flt	75,000.00	150,000		
	Learning stair framing						
	Framing at learning stair - premium	1	ls	150,000.00	150,000		
	SUBTOTAL					1,162,250	
C2020	STAIR FINISHES						
090005	RESILIENT FLOORS						
	Stair finishes	17	flts	20,000.00	340,000		
	SUBTOTAL						
	SUBTUTAL					340,000	
	TOTAL - STAIRCASES					340,000	\$1,50
Cao	TOTAL - STAIRCASES					340,000	\$1,50
C30	TOTAL - STAIRCASES INTERIOR FINISHES					340,000	\$1,50
	TOTAL - STAIRCASES INTERIOR FINISHES WALL FINISHES					340,000	\$1,50
	INTERIOR FINISHES WALL FINISHES Wall finishes complete package	440,816	gsf	17.00	7,493,872		\$1,50
	TOTAL - STAIRCASES INTERIOR FINISHES WALL FINISHES	440,816	gsf	17.00	7,493,872	7,493,872	\$1,50
C3010	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL	440,816	gsf	17.00	7,493,872		\$1,50
C3010	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL FLOOR FINISHES		gsf	17.00			\$1,50
C3010	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL	440,816 440,816 86,570			7,493,872 6,612,240 432,850		\$1,50
C3010	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL FLOOR FINISHES Floor finishes complete package	440,816	gsf	15.00	6,612,240		\$1,50
C3010	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL FLOOR FINISHES Floor finishes complete package Floor prep at existing SUBTOTAL	440,816	gsf	15.00	6,612,240	7,493,872	\$1,50
C3010	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL FLOOR FINISHES Floor finishes complete package Floor prep at existing SUBTOTAL CEILING FINISHES	440,816 86,570	gsf sf	15.00 5.00	6,612,240 432,850	7,493,872	\$1,50
C3010	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL FLOOR FINISHES Floor finishes complete package Floor prep at existing SUBTOTAL	440,816	gsf	15.00	6,612,240	7,493,872	\$1,50
C3010	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL FLOOR FINISHES Floor finishes complete package Floor prep at existing SUBTOTAL CEILING FINISHES Ceiling finishes complete package	440,816 86,570	gsf sf	15.00 5.00	6,612,240 432,850	7,493,872 7,045,090	
C3010	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL FLOOR FINISHES Floor finishes complete package Floor prep at existing SUBTOTAL CEILING FINISHES Ceiling finishes complete package SUBTOTAL	440,816 86,570	gsf sf	15.00 5.00	6,612,240 432,850	7,493,872 7,045,090	
C3010	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL FLOOR FINISHES Floor finishes complete package Floor prep at existing SUBTOTAL CEILING FINISHES Ceiling finishes complete package SUBTOTAL	440,816 86,570	gsf sf	15.00 5.00	6,612,240 432,850	7,493,872 7,045,090	\$1,50 \$21,15
C3020 C3020	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL FLOOR FINISHES Floor finishes complete package Floor prep at existing SUBTOTAL CEILING FINISHES Ceiling finishes complete package SUBTOTAL TOTAL - INTERIOR FINISHES	440,816 86,570	gsf sf	15.00 5.00	6,612,240 432,850	7,493,872 7,045,090	
C3020 C3020	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL FLOOR FINISHES Floor finishes complete package Floor prep at existing SUBTOTAL CEILING FINISHES Ceiling finishes complete package SUBTOTAL TOTAL - INTERIOR FINISHES CONVEYING SYSTEMS	440,816 86,570	gsf sf	15.00 5.00	6,612,240 432,850	7,493,872 7,045,090	
C3020 C3020 C3030 D100	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL FLOOR FINISHES Floor finishes complete package Floor prep at existing SUBTOTAL CEILING FINISHES Ceiling finishes complete package SUBTOTAL TOTAL - INTERIOR FINISHES CONVEYING SYSTEMS ELEVATOR	440,816 86,570	gsf sf	15.00 5.00	6,612,240 432,850	7,493,872 7,045,090	
C3020 C3020 C3030 D100	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL FLOOR FINISHES Floor finishes complete package Floor prep at existing SUBTOTAL CEILING FINISHES Ceiling finishes complete package SUBTOTAL TOTAL - INTERIOR FINISHES CONVEYING SYSTEMS ELEVATOR MISCELLANEOUS METALS	440,816 86,570 440,816	gsf sf gsf	15.00 5.00	6,612,240 432,850 6,612,240	7,493,872 7,045,090	
C3020 C3020 C3030 D100 D1010	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL FLOOR FINISHES Floor finishes complete package Floor prep at existing SUBTOTAL CEILING FINISHES Ceiling finishes complete package SUBTOTAL TOTAL - INTERIOR FINISHES CONVEYING SYSTEMS ELEVATOR MISCELLANEOUS METALS Pit ladder and miscellaneous metals Sill angles	440,816 86,570 440,816	gsf sf gsf	15.00 5.00 15.00	6,612,240 432,850 6,612,240	7,493,872 7,045,090	
C3020 C3020 C3030 D100	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL FLOOR FINISHES Floor finishes complete package Floor prep at existing SUBTOTAL CEILING FINISHES Ceiling finishes complete package SUBTOTAL TOTAL - INTERIOR FINISHES CONVEYING SYSTEMS ELEVATOR MISCELLANEOUS METALS Pit ladder and miscellaneous metals Sill angles ELEVATOR	440,816 86,570 440,816	gsf sf gsf ea ls	15.00 5.00 15.00 900.00 1,500.00	6,612,240 432,850 6,612,240 2,700 4,500	7,493,872 7,045,090	
C3020 C3020 C3030 D100 D1010	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL FLOOR FINISHES Floor finishes complete package Floor prep at existing SUBTOTAL CEILING FINISHES Ceiling finishes complete package SUBTOTAL TOTAL - INTERIOR FINISHES CONVEYING SYSTEMS ELEVATOR MISCELLANEOUS METALS Pit ladder and miscellaneous metals Sill angles	440,816 86,570 440,816	gsf sf gsf	15.00 5.00 15.00	6,612,240 432,850 6,612,240	7,493,872 7,045,090	



GFA PSR Options Cost Estimate 440,816

CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

BUILDING BACKUP - OPTION B.1

D20 PLUMBING

PLUMBING, GENERALLY D20 Air source heat pump water heater (2) 500MBH

Plumbing package complete

SUBTOTAL

ls 1,000,000,00 1,000,000

440,816 gsf 28.00 12,342,848

13,342,848

TOTAL - PLUMBING \$13,342,848

D30 HVAC

HVAC, GENERALLY D30

> Geothermal Wells 800' well wells 65,000.00 22,750,000 350 HVAC System; Water Source Heat Pump 440,816 gsf 90.00 39,673,440

SUBTOTAL 62,423,440

> TOTAL - HVAC \$62,423,440

D40 FIRE PROTECTION

D40 FIRE PROTECTION, GENERALLY

Fire Equipment

Fire pump with controller 750GPM, incl Jockey pump with controller Sprinkler system; complete

SUBTOTAL

150,000 440,816 gsf 9.00 3,967,344

150,000,00

185,000.00

812,500.00

8.00

3.00

36.00

60.00

200.00

2,500,000

370,000

3,526,528

812,500

1,322,448

4,342,788

5,583,600

2,500,000

983,600

1,763,264

200,000

250,000

4,187,752

1,125,000

23,849,624

7,934,688

4,117,344

TOTAL - FIRE PROTECTION \$4,117,344

ea

gsf

ls

gsf

sf

sf

ls

 sf

440,816

440,816

120,633

93,060

4,918

440,816

440,816

440,816

440,816

225

ea

D50 ELECTRICAL

D5010 ELECTRICAL SYSTEMS

Gear & Distribution

Normal power distribution system 4000A 277/480V main switchboard Panelboards/feeders Emergency power

Emergency Generator; 1250 kW Diesel Emergency power feeders Photovoltaic - 3500 kW

PV system equipment; roof top PV system equipment; canopy

Battery Storage Transparent + opaque vertical cladding BIPV **Equipment Wiring**

Feeders + Electrical to equipment SUBTOTAL

440,816 gsf 4,408,160 10.00

D5020 LIGHTING & POWER

Lighting, Controls + Power SUBTOTAL

18.00 440,816 gsf 7,934,688

D5030 COMMUNICATION & SECURITY SYSTEMS

Telecommunications/PA + Clock Performance lighting Theater AV Stage lighting fixture package

Audio Visual Systems Classroom speech + AV Specialty Communications Systems

BDA system, antenna and annunciator Cell repeater/Distributed antenna system, not specified Emergency 2 way communication system at elevator lobbies +stairs

200,000.00 ls ls 250,000.00

gsf

sf

sf

ls

gsf 9.50 rms 5,000.00

0.65

1.00

100,000.00

4.00

286,530 440,816

100,000





PSR Options Cost Estimate GFA 440,816

ı	1	1		IMT	ECTIN	CITE	TOTAL
	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
ING BAC	CKUP - OPTION B.1						
	Fire Alarm	440,816	gsf	4.00	1,763,264		
	Security System	440,816	gsf	10.00	4,408,160		
	SUBTOTAL	11-7-	0-		1,1,	14,524,786	
						-1,0-1,7 = =	
D5040	OTHER ELECTRICAL SYSTEMS						
٠.	Common Work Results for Electrical						
	Lightning prevention	440,816	gsf	0.30	132,245		
	Grounding	440,816	gsf	0.40	176,326		
	Misc. demolition work	440,816	gsf	0.25	110,204		
	Temp power and lights	440,816	gsf	1.20	528,979		
	Seismic restraints/Coordination/misc.	440,816	gsf	3.00	1,322,448		
	SUBTOTAL	440,000	8*-	3.00	-,0,	2,270,202	
							4.0
	TOTAL - ELECTRICAL						\$48,579
E10	EQUIPMENT						
E10	EQUIPMENT, GENERALLY						
112000	LOADING DOCK EQUIPMENT						
	Loading dock leveler(2), truck restraints (2) and bumpers	1	ls	50,000.00	50,000		
110620		_	-	J-/	0-,		
110020	THEATRICAL EQUIPMENT		,	0			
	Stage lighting and fixtures - equipment only	1	ls	358,000.00	358,000		
	Stage rigging, installed	1	ls	275,000.00	275,000		
	Stage curtains, installed	1	ls	88,385.00	88,385		
	Forestage Platforms, installed	1	ls	100,000.00	100,000		
	Orchestra Enclosure, installed	1	ls	175,000.00	175,000		
	Orchestra Pit Lift	1	ls	150,000.00	150,000		
	Auditorium AV Equipment				See Electrical		
113100	APPLIANCES						
	Residential appliances - allowance	1	ls	60,000.00	60,000		
114000	FOOD SERVICE EQUIPMENT						
	Kitchen equipment	1	ls	2,500,000.00	2,500,000		
115300	EDUCATIONAL EQUIPMENT						
00			ls	400 000 00	400.000		
	Science equipment;	1		400,000.00	400,000		
	Kiln Allowance for miscellaneous equipment	1	ea ls	5,000.00	5,000		
	Allowance for miscellaneous equipment	1	IS	50,000	50,000		
116600	GYM EQUIPMENT						
	Gym Equipment	1	ls	500,000.00	500,000		
126000	SEATING						
	Auditorium seating	1,000	seat	400.00	400,000		
	SUBTOTAL					5,111,385	
	TOTAL - EQUIPMENT						\$5,11
							₩ 3,11
E20	FURNISHINGS						
E2010	FIXED FURNISHINGS						
122100	WINDOW TREATMENT						
	Window shades at exterior glazing including blackout shades at art &	41,422	sf	10.00	414,220		
	window shades at exterior glazing including blackout shades at art & science classrooms - allowance	41,442	31	10.00	414,220		
123553	CASEWORK						
	Casework package	440,816	gsf	12.00	5,289,792		
	SUBTOTAL	/	_		=: 7//7	5,704,012	
E2020	MOVABLE FURNISHINGS						
	All movable furnishings to be provided and installed by owner						
	SUBTOTAL					NIC	



07-Oct-24

GFA 440,816

TOTAL CODE DESCRIPTION QTY UNIT COST TOTAL COST

BUILDING BACKUP - OPTION B.1

SPECIAL CONSTRUCTION F10

F10 SPECIAL CONSTRUCTION

> Pre-engineered Greenhouse ls 150,000.00 150,000

SUBTOTAL 150,000

TOTAL - SPECIAL CONSTRUCTION \$150,000

SELECTIVE BUILDING DEMOLITION F20

F2010 BUILDING ELEMENTS DEMOLITION

Roof demolition 52,395 sf5.00 261,975 Gut demolition 86,570 sf 10.00 865,700 Temporary shoring ls 350,000.00 350,000

SUBTOTAL 1,477,675

F2020 HAZARDOUS COMPONENTS ABATEMENT

See main summary for HazMat allowance See Summary

SUBTOTAL

TOTAL - SELECTIVE BUILDING DEMOLITION \$1,477,675

> SUBTOTAL \$274,448,126





CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

SITEWORK B.1

G	SITEWORK					
G10	SITE PREPARATION & DEMOLITION	2,015,000	sf			
311000	GENERAL CONDITIONS					
	Mobilizations/Temp Parking/Etc.	1	ls	500,000.00	500,000	
	6' high site construction fence - perimeter	7,500	lf	18.00	135,000	
311000	SITE DEMOLITION AND RELOCATIONS					
	Demolish existing site conditions	1	ls	900,000.00	900,000	
311000	UTILITY DEMOLITION					
	Demolish existing utility lines	1	ls	250,000.00	250,000	
	Utility Support/Ground Improvements	1	ls	1,500,000.00	1,500,000	
311000	VEGETATION & TOPSOIL MANAGEMENT					
	Strip + dispose topsoil (swell 25%)	23,264	cy	37.00	860,768	
	Street sweeping allowance during hauling	1	ls	50,000.00	50,000	
311000	CLEAR GRASSY KNOLL					
	Remove trees/vegetation	1	ls	10,000.00	10,000	
	Strip + dispose topsoil	1,600	cy	37.00	59,200	
	Rock removal; mechanical	1,600	cy	85.00	136,000	
312000	EROSION & SEDIMENT CONTROL					
	Silt Fence; installation and removal	7,500	lf	12.00	90,000	
	Erosion Control monitoring & maintenance	1	ls	80,000.00	80,000	
312000	SITE EARTHWORK					
	Site cut to design subgrade	o	cy			
	Cut	0	cy	20.00		
	Store cut onsite				NR	
	Process cut and amend with additional soils for reuse				NR	
	Imported fill	4,100	cy	40.00	164,000	
	General rock removal	3,400	cy	85.00	289,000	
312000	SOIL DISPOSAL - conversion factor 1.7 to tons Load excess soils for disposal					
	Less than RCS-1 - clean non-regulated	1	ls		NR	
312000	ESTABLISHING GRADE					
	Sub grade establishment	2,015,000	sf	0.15	302,250	
	Fine grading throughout the site	2,015,000	sf	0.25	503,750	
312000	HAZARDOUS MATERIALS					
	UST removal allowance				NR	
	Soil disposal & replacement allowance				See Summary	
	SUBTOTAL					5,829,968
G20	SITE IMPROVEMENTS					
	Roadways and Parking Lots					
	Bituminous concrete pavement - standard	264,000	sf			
	gravel base; 8" thick	20,411	cy	50.00	1,020,550	
	asphalt top; 1.5" thick	2,524	tns	200.00	504,800	
	asphalt binder; 2" thick	3,372	tns	190.00	640,680	
	Porous Pavement	66,000	sf			
	Choker course; 4" thick crushed stone	1,039	cy	75.00	77,925	
	Filter course; 8" thick gravel	2,047	cy	65.00	133,055	
	Reservoir course; 8" thick crushed stone	2,047	cy	55.00	112,585	
	Porous pavement; 4" thick	1,666	tns	400.00	666,400	
	Geotextiles to paving	330,000	sf	1.50	495,000	





CSI CODE		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
SITEWO	PK P -	DESCRIPTION	ŲIY	UNII	COSI	COSI	IOIAL	COSI
SHEWU	320000	CURBING						
	<u>J</u> 20000	Vertical granite curb	18,000	lf	55.00	990,000		
	320000	ROAD MARKINGS AND SIGNS	,		55			
		Parking spot	470	ea	85.00	39,950		
		Parking spot ADA premium	45	ea	250.00	11,250		
		Pavement markings/signage allowance	1	ls	100,000.00	100,000		
		SUBTOTAL					4,792,195	
	320000	PEDESTRIAN PAVING						
	•	Concrete sidewalks	115,000	sf				
		gravel base; 12" thick	5,324	cy	50.00	266,200		
		Broom finish concrete paving; 5" thick	115,000	sf	16.00	1,840,000		
		Concrete pads	1,500	sf				
		gravel base; 12" thick	104	cy	50.00	5,200		
		Broom finish concrete paving; 8" thick Porous concrete pavers; 20% of Plaza	1,500	sf sf	24.00	36,000		
		Open graded stone subbase AASHTO #2; 32" thick	9,000 1,113	cy	50.00	55,650		
		Open graded base AASHTO #57; 6" thick	208	cy	50.00	10,400		
		Open graded bedding course AASHTO #8; 2" thick	70	cy	65.00	4,550		
		Pavers	9,000	sf	28.00	252,000		
		Geotextiles on top, bottom and sides of subbase	10,000	sy	3.00	30,000		
		Concrete paving; 80% of Plaza gravel base; 12" thick	36,000	sf ov	50.00	80.050		
		Broom finish concrete paving; 5" thick	1,667 36,000	cy sf	50.00 18.00	83,350 648,000		
		proof monetore paring, y then	30,000	01	10.00	040,000		
	320000	STAIRS AND RAMPS						
		Ramp/stairs premium	1	ls	250,000.00	250,000		
		SUBTOTAL					3,481,350	
	320000	SITE IMPROVEMENTS						
	320000	SITE FURNISHINGS						
		Bollards/bike racks/benches/flag poles etc.	1	ls	1,000,000.00	1,000,000		
		New restroom/tickets/concessions building	1,000	sf	700.00	700,000		
	320000	EXISTING STADIUM + TRACK ETR				No Costs Assum	ed	
	320000	ATHLETIC FIELDS						
		Grass fields; sod	360,000	sf				
		Varsity Baseball Diamond; C1	100,000	sf	6.00	600,000		
		Backstops/benches etc.	100,000	ea	90,000.00	90,000		
		Infield	1	ea	60,000.00	60,000		
		Varsity Softball Diamond; C2	55,000	sf	6.00	330,000		
		Backstops/benches etc.	1	ea	90,000.00	90,000		
		Infield	1	ea	30,000.00	30,000		
		Junior Varsity Baseball Diamond; C3 + Cricket	60,000	sf	6.00	360,000		
		Backstops/benches etc.	1	ea	90,000.00	90,000		
		Infield	1	ea	50,000.00	50,000		
		Little League Diamond; C4	40,000	sf	6.00	240,000		
		Backstops/benches etc. Infield	1	ea ea	90,000.00	90,000 30,000		
		- -			50,000.00	55,000		
		Crumb football field; C5	60,000	sf	6.00	360,000		
		77 1 2 611 24			_			
		Worthen practice field; C6	45,000	sf	6.00	270,000		
		Tennis courts + Basketball courts				ETR		





CSI CODE		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
SITEWO	RK B.1							
51120	2012							
	320000	ATHLETIC EQUIPMENT						
		Equipment allowance	1	ls	180,000.00	180,000		
	320000	BLEACHERS AND SCOREBOARDS						
		Bleachers + pressbox	1,000	seat	900.00	900,000		
		Electronic scoreboard; wireless controls, multiboard	1	ea	75,000.00	75,000		
		Electronic scoreboard; softball	1	ea	45,000.00	45,000		
	320000	FENCING						
		Fencing allowance	1	ls	500,000.00	500,000		
		SUBTOTAL					6,090,000	
	320000	SITE WALLS						
	320000	Retaining walls/site walls/seat walls	1	ls	750,000.00	750,000		
		SUBTOTAL		10	/50,000.00	/50,000	750,000	
		COLIGINAL					7,50,000	
		Landscaping						
	329900							
		Topsoil - imported 12" thick; swell 25%	15,741	cy	65.00	1,023,165		
		General Seeding	850,000	sf	0.50	425,000		
		Trees, Shrubs and Perennial planting area	1	ls	1,500,000.00	1,500,000		
		Courtyard IRRIGATION	1	ls	150,000.00	150,000		
		Irrigation area at athletic fields	360,000	sf	1.50	540,000		
		0	0		.0.	0 (12)		
		Wetlands reconstruction				NR		
		SUBTOTAL					3,638,165	
	G30	CIVIL MECHANICAL UTILITIES						
	210000	FIRE PROTECTION						
		12" CLDI	4,000	lf	150.00	600,000		
		8" CLDI	200	lf	100.00	20,000		
		6" CLDI	100	lf	95.00	9,500		
		Fire department connection	1	ea	2,500.00	2,500		
		Gate valve; hydrants	1	ls	60,000.00	60,000		
	331000	CONNECTIONS						
		Connect to existing water line; 12" live tap	2	ea	15,000.00	30,000		
	312000	EXCAVATION & BACKFILL DI piping excavation/backfill (inside site)	4,300	lf	50.00	215,000		
		Pressure test & chlorinate	4,300	lf	7.50	32,250		
		Allowance for temporary water service	4,300	ea	25,000.00	25,000		
		Allowance for temporary support of existing utilities			0,	NR		
		SUBTOTAL					994,250	
	333000	SANITARY SEWER PVC sower pipe	400-	1£	60.0=	110 000		
		PVC sewer pipe	1,980	lf	60.00	118,800		
		Sewer manholes Connection to existing	7 2	ea loc	6,000.00 15,000.00	42,000 30,000		
		Grease trap - 6,000 gal.	2	ea	35,000.00	70,000		
		SUBTOTAL	_	ou.	33,000.00	70,000	260,800	
	334000	STORM DRAINAGE	44.00-	a.c	·= c=	405 005		
		Infiltration systems Hydrodynamic separators	11,000	sf ea	45.00 20,000.00	495,000 100,000		
		Storm systems; complete at parking; piping; CB + MH etc.	5 264,000	ea sf	10.00	2,640,000		
		Sodded Athletic fields	-54,000	31	10.00	_,040,000		
		Drainage at field	360,000	sf	1.00	Included w/fields		
		SUBTOTAL					3,235,000	
	C .	EV ECKENICAL VIIIV PROVINCE						
	G40	ELECTRICAL UTILITIES Concrete:						
		Primary duct bank 6-5" duct bank	900	lf	50.00	45,000		
			,50		55.50	70,000		





CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
ITEWO	ORK B.1						
	Secondary service 4000A - two services	200	lf	50.00	10,000		
	Generator duct bank	100	lf	40.00	4,000		
	PV 5000A secondary service (10) - 4"C	100	lf	60.00	6,000		
	Communications duct bank 6-4"	750	lf	40.00	30,000		
	Transformer/generator pad	6	ea	3,000.00	18,000		
	Site lighting pole bases	56	ea	500.00	28,000		
	Excavation and backfill:						
	Primary duct bank 2-5" duct bank	900	lf	25.00	22,500		
	Secondary service 4000A	200	lf	30.00	6,000		
	Storage building 400A service	40	lf	22.00	880		
	Generator duct bank	100	lf	30.00	3,000		
	PV 5000A secondary service (10) - 4"C	100	lf	45.00	4,500		
	EV conduits			.0	See Below		
	Communications duct bank 4-4"	750	lf	25.00	18,750		
	Site lighting circuitry	5,200	lf	6.00	31,200		
	2-2" PVC to sports field lighting	1,200	lf	10.00	12,000		
	CCTV circuitry	1,200	lf	6.00	7,200		
	Scoreboard power & data, misc. sports field power, allow	1,000	lf	6.00	6,000		
	SUBTOTAL	2,000		0.00	0,000	253,030	
						33, 3	
	<u>Power</u>						
	Site electrical 15 kVOLT- Transformers etc.	1	ls	2,500,000.00	By Owner		
	Utility co. back charges				Included above		
	Primary duct bank	900	lf	180.00	162,000		
	Electric manhole	6	ea	12,500.00	75,000		
	Transformers + 15kVolt switchgear by Owner				Included above		
	Secondary service 4000A	200	lf	1,400.00	280,000		
	Generator:						
	Generator service	100	lf	400.00	40,000		
	PV:						
	PV 5000A secondary service (10) - 4"C	400	lf	600.00	240,000		
	Communications						
	Connect to existing utility pole	1	ea	1,500.00	1,500		
	Communications duct bank	750	lf	150.00	112,500		
	Communication manhole	2	ea	12,500.00	25,000		
	Site Lighting						
	Allowance	360,000	sf	2.00	720,000		
	EV Stations						
	EV stations; single	20	loc	15,000.00	300,000		
	EV stations; EV ready; conduit only	75	loc	4,000.00	300,000		
	EV stations; EV ready; conduit + wiring	50	loc	7,000.00	350,000		
	Sports Fields						
	Sports field lighting, allow 1 baseball field; 1 softball field +	2	loc	460,000.00	920,000		
	rectangle field			•			
	Fixture MUSCO				Included above		
	Sports field lighting circuitry	1,200	lf	12.00	Included above		
	Scoreboard power & data, misc. sports field power, allow	1	ls	10,000.00	Included above		
	Rough-in, allow	1	ls	35,000.00	Included above		
	Site Demolition						
	Site demolition work				Included w/ build	ing	
	SUBTOTAL					3,526,000	

TOTAL - SITE DEVELOPMENT \$32,850,758



Lexington High School Town of Lexington, MA

PSR Options Cost Estimate

Lown of Lexington, MA

07-Oct-24

GFA 440,816

		CONSTRUCT	TION COST SUMMA	ARY		
	BUILDIN	G SYSTEM	SUB-TOTAL	TOTAL	\$/SF	%
BUILDIN	NG SUMI	MARY - OPTION B.4				
A10	FOUNI	DATIONS				
	A1010	Standard Foundations	\$4,934,163			
	A1020	Special Foundations	\$5,295,745			
	A1030	Lowest Floor Construction	\$4,752,925	\$14,982,833	\$33.99	5.5%
A20	BASEN	IENT CONSTRUCTION				
	A2010	Basement Excavation	\$ 0			
	A2020	Basement Walls	\$ 0	\$0	\$0.00	0.0%
В10	SUPER	STRUCTURE				
	B1010	Upper Floor Construction	\$11,959,981			
	B1020	Roof Construction	\$8,333,684	\$20,293,665	\$46.04	7.5%
B20	EXTER	IOR CLOSURE				
	B2010	Exterior Walls	\$18,460,169			
	B2020	Windows	\$8,008,751			
	B2030	Exterior Doors	\$440,816	\$26,909,736	\$61.05	9.9%
В30	ROOFI	NG				
	B3010	Roof Coverings	\$9,943,819			
	B3020	Roof Openings	\$54,000	\$9,997,819	\$22.68	3.7%
C10	INTER	IOR CONSTRUCTION				
	C1010	Partitions	\$19,786,516			
	C1020	Interior Doors	\$5,399,528			
	C1030	Specialties/Millwork	\$6,680,093	\$31,866,137	\$72.29	11.8%
C20	STAIR	CASES				
	C2010	Stair Construction	\$942,250			
	C2020	Stair Finishes	\$260,000	\$1,202,250	\$2.73	0.4%
C30	INTER	IOR FINISHES				
	C3010	Wall Finishes	\$7,493,872			
	C3020	Floor Finishes	\$7,317,140			
	C3030	Ceiling Finishes	\$6,612,240	\$21,423,252	\$48.60	7.9%
D10	CONVE	EYING SYSTEMS				
	D1010	Elevator	\$907,200	\$907,200	\$2.06	0.3%



Lexington High School Town of Lexington, MA

PSR Options Cost Estimate

07-Oct-24

GFA

440,816

		CONSTRUCTIO	N COST SUMM	ARY		
	BUILDING	G SYSTEM	SUB-TOTAL	TOTAL	\$/SF	%
BUILDIN	NG SUMI	MARY - OPTION B.4				
D20	PLUME	BING				
	D20	Plumbing	\$13,342,848	\$13,342,848	\$30.27	4.9%
D30	HVAC					
	D30	HVAC	\$62,423,440	\$62,423,440	\$141.61	23.1%
D40	FIRE P	ROTECTION				
	D40	Fire Protection	\$4,117,344	\$4,117,344	\$9.34	1.5%
D50	ELECT	RICAL				
	D5010	Complete System	\$48,268,144	\$48,268,144	\$109.50	17.8%
E10	EQUIP	MENT				
	E10	Equipment	\$5,111,385	\$5,111,385	\$11.60	1.9%
E20	FURNIS	SHINGS				
	E2010	Fixed Furnishings	\$5,656,412			
	E2020	Movable Furnishings	NIC	\$5,656,412	\$12.83	2.1%
F10	SPECIA	AL CONSTRUCTION				
	F10	Special Construction	\$1,850,000	\$1,850,000	\$4.20	0.7%
F20	HAZMA	AT REMOVALS				
	F2010	Building Elements Demolition	\$2,269,735			
	F2020	Hazardous Components Abatement	\$o	\$2,269,735	\$5.15	0.8%
	44 DID=				*	
TOTA	AL DIKE	CT COST (Trade Costs)		\$270,622,200	\$613.91	100.0%





PSR Options Cost Estimate GFA 440,816

С	SI				UNIT	EST'D	SUB	TOTAL
cc	ODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

BUILDING BACKUP - OPTION B.4

GROSS FLOOR AREA CALCULATION

 Level 1
 151,307

 Level 2
 74,265

 Level 3
 74,264

 Heavy Renovation
 140,980

	TOTAL GROSS FLOOR AREA (GFA)	440,816 sf	
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A1010	STANDARD FOUNDATIONS					
	Strip Footings; 1 x 3					
	Formwork	6,908	sf	15.00	103,620	
	Re-bar	45,593	lbs.	2.50	113,983	
	Concrete material	403	cy	160.00	64,480	
	Placing concrete	403	cy	120.00	48,360	
	Perimeter foundation walls; 20" Thick x 3.5 ft H					
	Formwork	24,178	sf	21.00	507,738	
	Re-bar	60,445	lbs.	2.50	151,113	
	Concrete material	785	cy	160.00	125,600	
	Placing concrete	785	cy	120.00	94,200	
	Form shelf	3,454	lf	8.00	27,632	
	Spread Footings; 9 x 9 x 2 (Three Story)	<i>37</i> 8	ea			
	Formwork	27,216	sf	18.00	489,888	
	Re-bar	183,708	lbs.	2.50	459,270	
	Concrete material	2,381	cy	160.00	380,960	
	Placing concrete	2,381	cy	120.00	285,720	
	Set anchor bolts grout plates	378	ea	250.00	94,500	
	Spread Footings; 10 x 10 x 2 (Four Story)					
	Formwork		sf	18.00		
	Re-bar		lbs.	2.50		
	Concrete material		cy	160.00		
	Placing concrete		cy	120.00		
	Set anchor bolts grout plates		ea	250.00		
	<u>Piers</u>	378	ea			
	Formwork	4,536	sf	24.00	108,864	
	Re-bar	51,030	lbs	2.50	127,575	
	Concrete material	176	cy	160.00	28,160	
	Placing concrete	176	cy	160.00	28,160	
	Housekeeping pads	1	ls	30,000.00	30,000	
70001	$WATERPROOFING, DAMPPROOFING\ AND\ CAULKING$					
	Damproofing @ foundation wall	13,816	sf	4.00	55,264	
72100	THERMAL INSULATION					
	Rigid insulation to face of foundation wall; 4" R-20	13,816	sf	5.00	69,080	
	Brick Shelf 4" insulation	3,454	lf	20.00	69,080	
12000	EARTHWORK					
	Strip footings					
	Excavation	3,838	cy	14.00	53,732	
	Reuse excess material on site	1,188	cy	15.00	17,820	
	Backfill with select fill	2,650	cy	25.00	66,250	
	Spread footings					
	Excavation	6,776	cy	14.00	94,864	
	Reuse excess material on site	2,557	cy	15.00	38,355	
	Backfill with select fill	4,219	cy	25.00	105,475	





	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL
	CKUP - OPTION B.4					-	
DING BA	New brick ledge tied to existing foundation wall	2,186	lf	200.00	437,200		
	Excavation + backfill to expose existing foundations	1,295	cy	80.00	103,600		
	New foundations in existing building for bracing etc.	-,-,5	ls	200,000.00	200,000		
	Temporary dewatering for foundation work	1	ls	250,000.00	250,000		
	SUBTOTAL			3 /	0 /	4,934,163	
A1020	SPECIAL FOUNDATIONS						
	Rigid inclusions	151,307	sf	35.00	5,295,745		
	SUBTOTAL					5,295,745	
A1030	LOWEST FLOOR CONSTRUCTION						
033000	CONCRETE						
	Vapor barrier, 15mils	151,307	sf	1.25	189,134		
	Slab on grade	151,307	sf				
	WWF reinforcement	174,003	sf	1.85	321,906		
	Concrete - 5" thick	2,413	cy	170.00	410,210		
	Placing concrete	2,413	cy	65.00	156,845		
	Finishing and curing concrete	151,307	sf	3.00	453,921		
	Control joints - saw cut	151,307	sf	0.10	15,131		
	Miscellaneous						
	Patch existing floors	115,000	sf	5.00	575,000		
	Equipment pads	1	ls	30,000.00	30,000		
	Loading dock	1	ls	50,000.00	50,000		
	Elevator pits	3	ea	40,000.00	120,000		
	Radon system				Excluded; NR		
072100	THERMAL INSULATION						
	Perimeter insulation, 4" thick R-20 - 6ft at perimeter	20,724	sf	5.00	103,620		
	Under slab insulation, 2" thick under slab	130,583	sf	3.00	391,749		
312000	EARTHWORK						
	Gravel base, 12"	5,604	cy	45.00	252,180		
	Structural fill	19,600	cy	55.00	1,078,000		
	Allowance for underslab drainage	151,307	sf	2.00	302,614		
	Compact existing sub-grade	151,307	sf	0.50	75,654		
	Underslab E&B for plumbing	151,307	sf	1.50	226,961		
	SUBTOTAL					4,752,925	
	TOTAL - FOUNDATIONS						\$14.082

TOTAL - FOUNDATIONS \$14,982,833

A20 BASEMENT CONSTRUCTION

A2010 BASEMENT EXCAVATION

No Work in this section SUBTOTAL

A2020 BASEMENT WALLS

No Work in this section

SUBTOTAL

TOTAL - BASEMENT CONSTRUCTION

В10	SUPERSTRUCTURE					
B1010	FLOOR CONSTRUCTION	9.9 2,177 \$6,809	lbs/sf tns \$/Ton	including canopies +	roof screens	
033000	CONCRETE					
	WWF reinforcement	170,808	sf	1.85	315,995	
	Concrete Fill to metal deck; lightweight, total thickness 6 1/4"	3,004	cy	190.00	570,760	
	Place and finish concrete	148,529	sf	3.00	445,587	
	Rebar to decks	44,559	lbs	2.00	89,118	
051200	STRUCTURAL STEEL FRAMING Structural steel framing; Complete; 15 lbs per SF	1.114	tns	5 000 00	5 570 000	
	Structural steel framing; Complete; 15 lbs per SF	1,114	tns	5,000.00	5,570,000	





				UNIT	EST'D	SUB	TOTAL
'	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
DING BA	CKUP - OPTION B.4						
	Steel premium for lateral system due to poor soils; 1 PSF	74	tns	5,000.00	370,000		
	New bracing steel at existing; 1 PSF	70	tns	8,000.00	560,000		
	Moment connections	56	ea	750.00	42,000		
	Shear studs	37,132	ea	3.50	129,962		
	3" metal galvanized floor deck	148,529	sf	8.00	1,188,232		
	Expansion joints	1	ls	100,000.00	100,000		
	Seismic upgrades	140,980	sf	10.00	1,409,800		
078100	FIREPROOFING/FIRESTOPPING						
	Fire proofing to columns and beams; 2 hr	289,509	sf	3.00	868,527		
	Intumescent paint @ architecturally exposed beams and columns - allow	1	ls	300,000.00	300,000		
	SUBTOTAL					11,959,981	
B1020	ROOF CONSTRUCTION						
033000	CONCRETE						
	6" Normal weight concrete deck at low roof and at mechanical equipment pads	35,000	sf	9.00	315,000		
051200	STRUCTURAL STEEL FRAMING						
	Structural steel framing; Complete; 13 lbs per SF	983	tns	5,000.00	4,915,000		
	Structural steel framing; 2 lbs per SF premium at RTU's	35	tns	4,800.00	168,000		
	Steel premium for lateral system due to poor soils; 1 PSF	76	tns	5,000.00	380,000		
	Roof screens	80	tns	5,500.00	440,000		
	Decking						
	1 1/2" galvanized metal deck, typical	151,307	sf	7.00	1,059,149		
078100	FIREPROOFING/FIRESTOPPING						
	Fireproofing to columns, beams and deck; 1 hr - includes Intumescent	151,307	sf	5.00	756,535		
	Intumescent paint $@$ architecturally exposed beams and columns - allow	1	ls	300,000.00	300,000		
	SUBTOTAL					8,333,684	
	TOTAL - SUPERSTRUCTURE						\$20,293,6

B2010 EXTERIOR WALLS 146,649 51 total area solid	B20	EXTERIOR CLOSURE]			
### Mackup ### Mockup ### Brick veneer; 60% of Solid ### Repoint existing brick ### Granite veneer base; 2% ### CMU wall at auditorium ### Precast trim allowance ### Brick veneer; 2% ### CMU wall at auditorium ### Precast trim allowance ### Mineral wool at exterior closure (2 layers 4") ### Miscellaneous flashings and sealants ### Staging to exterior wall ### Staging to exterior wallead to a staging to exterior wall ### Staging to exterior wall ##	B2010	EXTERIOR WALLS				
Mockup		Exterior Wall Area	91,087	sf total	area solid	
Brick veneer; 60% of Solid Repoint existing brick Repoint existing brick Granite veneer base; 2% 4" CMU wall at auditorium Precast trim allowance 8" Mineral wool at exterior closure (2 layers 4") Miscellaneous flashings and sealants Staging to exterior wall 91,087 Misc. metals at masonry including loose lintels (relieving angles included in steel tns) 91,087 Miscellaneous sealants to closure 91,087 Sf 1.50 1.50 53,628 1.50 1.50 53,628 1.50 1.	042000	MASONRY				
Repoint existing brick 18,900 sf 45,00 850,500 Granite veneer base; 2% 1,822 sf 120,00 218,640 4" CMU wall at auditorium 9,000 sf 30,00 270,000 Precast trim allowance 1 ls 1,000,000,00 1,000,000 8" Mineral wool at exterior closure (2 layers 4") 91,087 sf 7.50 683,153 Miscellaneous flashings and sealants 91,087 sf 1.50 136,631 Staging to exterior wall 91,087 sf 4.00 364,348 O55000 MISC. METALS Misc. metals at masonry including loose lintels (relieving angles included in steel tns) 35,752 sf 1.50 53,628 O70001 WATERPROOFING, DAMPPROOFING AND CAULKING Air barrier 91,087 sf 10.00 910,870 Miscellaneous sealants to closure 91,087 sf 1.00 91,087 O72100 THERMAL INSULATION THERMAL INSULATION		Mockup	1	ls	100,000.00	100,000
Granite veneer base; 2%		Brick veneer; 60% of Solid	35,752	sf	44.00	1,573,088
4" CMU wall at auditorium 9,000 sf 30.00 270,000 Precast trim allowance 8" Mineral wool at exterior closure (2 layers 4") 91,087 sf 7.50 683,153 Miscellaneous flashings and sealants 91,087 sf 1.50 136,631 Staging to exterior wall 91,087 sf 4.00 364,348 055000 MISC. METALS Misc. metals at masonry including loose lintels (relieving angles included in steel tns) 070001 WATERPROOFING, DAMPPROOFING AND CAULKING Air barrier Miscellaneous sealants to closure 91,087 sf 10.00 910,870 Miscellaneous sealants to closure 91,087 sf 10.00 910,870 THERMAL INSULATION		Repoint existing brick	18,900	sf	45.00	850,500
Precast trim allowance 1 ls 1,000,000.00 1,000,000 8" Mineral wool at exterior closure (2 layers 4") 91,087 sf 7.50 683,153 Miscellaneous flashings and sealants 91,087 sf 1.50 136,631 Staging to exterior wall 91,087 sf 4.00 364,348 055000 MISC. METALS Misc. metals at masonry including loose lintels (relieving angles included in steel tns) 35,752 sf 1.50 53,628 included in steel tns) 53,628 included in steel tns) 70,0001 WATERPROOFING, DAMPPROOFING AND CAULKING Air barrier 91,087 sf 10.00 910,870 Miscellaneous sealants to closure 91,087 sf 1.00 91,087 07,2100 THERMAL INSULATION		Granite veneer base; 2%	1,822	sf	120.00	218,640
8" Mineral wool at exterior closure (2 layers 4") 91,087 sf 7.50 683,153 Miscellaneous flashings and sealants 91,087 sf 1.50 136,631 Staging to exterior wall 91,087 sf 4.00 364,348 055000 MISC. METALS Misc. metals at masonry including loose lintels (relieving angles included in steel tns) 070001 WATERPROOFING, DAMPPROOFING AND CAULKING Air barrier 91,087 sf 10.00 910,870 Miscellaneous sealants to closure 91,087 sf 1.00 91,087		4" CMU wall at auditorium	9,000	sf	30.00	270,000
Miscellaneous flashings and sealants 91,087 sf 1.50 136,631 Staging to exterior wall 91,087 sf 4.00 364,348 055000 MISC. METALS Misc. metals at masonry including loose lintels (relieving angles included in steel tns) 35,752 sf 1.50 53,628 070001 WATERPROOFING, DAMPPROOFING AND CAULKING Air barrier 91,087 sf 10.00 910,870 Miscellaneous sealants to closure 91,087 sf 1.00 91,087 072100 THERMAL INSULATION		Precast trim allowance	1	ls	1,000,000.00	1,000,000
Staging to exterior wall 91,087 sf 4.00 364,348 955000 MISC. METALS Misc. metals at masonry including loose lintels (relieving angles included in steel tns) 970001 WATERPROOFING, DAMPPROOFING AND CAULKING Air barrier 91,087 sf 10.00 910,870 Miscellaneous sealants to closure 91,087 sf 1.00 91,087		8" Mineral wool at exterior closure (2 layers 4")	91,087	sf	7.50	683,153
Misc. METALS Misc. metals at masonry including loose lintels (relieving angles included in steel tns) MATERPROOFING, DAMPPROOFING AND CAULKING Air barrier Miscellaneous sealants to closure 91,087 sf 10.00 910,870 Miscellaneous sealants to relieving angles 35,752 sf 10.00 910,870 Miscellaneous THERMAL INSULATION		Miscellaneous flashings and sealants	91,087	sf	1.50	136,631
Misc. metals at masonry including loose lintels (relieving angles included in steel tns) Misc. metals at masonry including loose lintels (relieving angles included in steel tns) Material Reproof Ing. Dampproof Ing And Caulking Air barrier 91,087 sf 10.00 910,870 Miscellaneous sealants to closure 91,087 sf 1.00 91,087 Digital Thermal Insulation		Staging to exterior wall	91,087	sf	4.00	364,348
included in steel tns) 70001 WATERPROOFING, DAMPPROOFING AND CAULKING Air barrier 91,087 sf 10.00 910,870 Miscellaneous sealants to closure 91,087 sf 1.00 91,087 72100 THERMAL INSULATION	55000	MISC. METALS				
Air barrier 91,087 sf 10.00 910,870 Miscellaneous sealants to closure 91,087 sf 1.00 91,087 072100 THERMAL INSULATION			35,752	sf	1.50	53,628
Miscellaneous sealants to closure 91,087 sf 1.00 91,087 072100 THERMAL INSULATION	070001	WATERPROOFING, DAMPPROOFING AND CAULKING				
072100 THERMAL INSULATION		Air barrier	91,087	sf	10.00	910,870
		Miscellaneous sealants to closure	91,087	sf	1.00	91,087
4" cellulose insulation in stud 91,087 sf 3.25 296,033	72100	THERMAL INSULATION				
		4" cellulose insulation in stud	91,087	sf	3.25	296,033
Insulation at glazed openings 12,221 lf 6.00 73,326		Insulation at glazed openings	12,221	lf	6.00	73,326





	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
OING BA	ACKUP - OPTION B.4						
076400	CLADDING						
	Composite metal panel, Alucobond or equal; 18%	16,396	sf	100.00	1,639,600		
	Terracotta; 20%	37,117	sf	160.00	5,938,720		
	Canopies; soffit + framing	4,000	sf	100.00	400,000		
	12' high Acoustic Equipment Screen	16,000	sf	95.00	1,520,000		
	EXPANSION JOINT COVERS						
	Thermal breaks	1	ls	50,000.00	50,000		
	Expansion joints	1	ls	100,000.00	100,000		
092900	GYPSUM BOARD ASSEMBLIES						
	Exterior wall;						
	6" Stud backup	91,087	sf	16.00	1,457,392		
	Gypsum Sheathing	91,087	sf	3.50	318,805		
	Drywall lining to interior face of stud backup	91,087	sf	4.00	364,348		
	Passive house premium				NR		
101400	SIGNAGE						
	Exterior signage - allowance	1	ls	50,000.00	50,000		
	SUBTOTAL					18,460,169	
B2020	WINDOWS	06.660	"£				
	Exterior Wall Area	36,662	sf				
061000	ROUGH CARPENTRY						
	Wood blocking at openings	12,221	lf	10.00	122,210		
070001	WATERPROOFING, DAMPPROOFING AND CAULKING						
	Air barrier/flashing at windows	12,221	lf	10.00	122,210		
	Backer rod & double sealant	12,221	lf	11.00	134,431		
080001	METAL WINDOWS						
	Aluminum windows, triple glazed including interior and exterior trim per details	18,331	sf	175.00	3,207,925		
	Curtainwall, triple glazed including allowance for interior and exterior trim details	18,331	sf	225.00	4,124,475		
	Horizontal aluminum fin sunshades @ 40% of windows, custom color	1,700	lf	175.00	297,500		
	Passive house premium				NR		
089000	LOUVERS						
	Louvers				N/A		
	SUBTOTAL					8,008,751	
B2030	EXTERIOR DOORS						
	Allowance for exterior doors	440,816	gsf	1.00	440,816		
	SUBTOTAL					440,816	
	TOTAL - EXTERIOR CLOSURE						\$26,909,

Взо	ROOFING				
055000	MISCELLANOUS METALS				
	Terrace top rail/ladders/stairs	1	ls	80,000.	00 80,000
061000	ROUGH CARPENTRY				
	Rough carpentry and blocking @ roof	253,294	sf	1.	50 379,941
070002	ROOFING AND FLASHING	253,294	total a	area	
	PVC roof membrane system, white or gray, 1/2" coverboard, 10" polyiso insulation, vapor barrier	253,294	sf	33.	00 8,358,702
	Canopy roofing	4,000	sf	28.	112,000





SI				UNIT	EST'D	SUB	TOTAL
DDE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
ILDING BA	ACKUP - OPTION B.4						
	Plaza deck pavers system at terrace				NR		
	Miscellaneous Roofing						
	Miscellaneous flashings/copings/walkway pads etc.	253,294	sf	4.00	1,013,176		
	SUBTOTAL					9,943,819	
B3020	O ROOF OPENINGS						
086300	ROOF SKYLIGHTS						
	Aluminum framed skylight (4loc)				None Assumed		
	Smoke vents; 7'x7'	3	ea	18,000.00	54,000		
	SUBTOTAL					54,000	
	TOTAL - ROOFING						\$9,997,819

C10	INTERIOR CONSTRUCTION					
C1010	PARTITIONS					
040001	MASONRY					
	Allowance for masonry partitions	440,816	gsf	6.00	2,644,896	
061000	ROUGH CARPENTRY					
	Backer panels in electrical closets	1	ls	10,000.00	10,000	
	Wood blocking at interiors	440,816	gsf	0.50	220,408	
078400	FIREPROOFING/FIRESTOPPING					
	Fire stopping including slab edges and core	440,816	gsf	1.00	440,816	
070001	$WATERPROOFING, DAMPPROOFING\ AND\ CAULKING$					
	Miscellaneous sealants throughout building	440,816	gsf	1.25	551,020	
078150	EXPANSION JOINTS					
	Allowance for expansion joint covers	1	ls	50,000.00	50,000	
081110	INTERIOR GLAZING					
	Allowance for interior glazing	440,816	gsf	3.00	1,322,448	
092900	GYPSUM BOARD ASSEMBLIES					
	Allowance for GWB partitions	440,816	gsf	33.00	14,546,928	
	SUBTOTAL					19,786,516
C1020	INTERIOR DOORS					
	Doors, frames, hardware; complete	440,816	gsf	8.00	3,526,528	
	Fire shutters	1	ls	150,000.00	150,000	
	Security doors	16	loc	25,000.00	400,000	
	Premium for electronic hardware	882	set	1,500.00	1,323,000	
	SUBTOTAL					5,399,528
C1030	SPECIALTIES / MILLWORK					
055000	MISCELLANEOUS METALS					
	Miscellaneous metals throughout building	440,816	gsf	5.00	2,204,080	
061000	ROUGH CARPENTRY					
062000	INTERIOR ARCHITECTURAL WOODWORK					
	Interior millwork package	440,816	gsf	3.00	1,322,448	
101100	VISUAL DISPLAY SURFACES					
	Markerboard and tackboard package	440,816	gsf	2.00	881,632	
101400	SIGNAGE					
	Room identification, directional & safety signage, building directory	440 816	act	2.00	881,632	
	+ environmental graphics	440,816	gsf	2.00	001,032	
102800	TOILET ACCESSORIES					



				UNIT	EST'D	SUB	TOTAL
	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
OING BA	CKUP - OPTION B.4						
	Toilet accessories/compartments	440,816	gsf	1.00	440,816		
104400	FIRE PROTECTION SPECIALTIES						
	Fire extinguisher cabinets	1	ls	65,852.71	65,853		
	AED cabinets	1	ls	2,000.00	2,000		
	THE COMECO	•	10	2,000.00	2,000		
105000	LOCKERS						
	Student lockers	440,816	gsf	2.00	881,632		
	SUBTOTAL					6,680,093	
	TOTAL - INTERIOR CONSTRUCTION						\$31,866
C20	STAIRCASES						
C2010	STAIR CONSTRUCTION						
033000	CONCRETE						
033000		10	£1+	5,000,00	65,000		
	Concrete to stairs	13	flt	5,000.00	65,000		
055000	MISCELLANEOUS METALS						
	Egress stairs w/ stainless steel rails and handrails	10	flt	50,000.00	500,000		
	Projection room stair, 4' wide	1	flt	40,000.00	40,000		
	Learning stair						
	Stainless steel guardrail	65	lf	425.00	27,625		
	Stainless steel handrail	55	lf	175.00	9,625		
	Adjacent stairs; 5'-3" wide	2	flt	75,000.00	150,000		
	Learning stair framing						
	Framing at learning stair - premium	1	ls	150,000.00	150,000		
	SUBTOTAL					942,250	
	CTLAYD WAYNOY DO						
C2020	STAIR FINISHES						
090005	RESILIENT FLOORS						
	Stair finishes	13	flts	20,000.00	260,000		
	SUBTOTAL					260,000	
	TOTAL - STAIRCASES						\$1,202
	TOTAL - STAIRCASES						\$1,202
Сзо	TOTAL - STAIRCASES INTERIOR FINISHES						\$1,202
L							\$1,202
L	INTERIOR FINISHES	440,816	gsf	17.00	7,493,872		\$1,202
L	INTERIOR FINISHES WALL FINISHES	440,816	gsf	17.00	7,493,872	7,493,872	\$1,202
C3010	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL	440,816	gsf	17.00	7,493,872	7,493,872	\$1,202
C3010	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL FLOOR FINISHES					7,493,872	\$1,202
C3010	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL FLOOR FINISHES Floor finishes complete package	440,816	gsf	15.00	6,612,240	7,493,872	\$1,202
C3010	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL FLOOR FINISHES Floor finishes complete package Floor prep at existing						\$1,202
C3010	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL FLOOR FINISHES Floor finishes complete package	440,816	gsf	15.00	6,612,240	7,493,872 7,317,140	\$1,202
C3010	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL FLOOR FINISHES Floor finishes complete package Floor prep at existing	440,816	gsf	15.00	6,612,240		\$1,202
C3010	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL FLOOR FINISHES Floor finishes complete package Floor prep at existing SUBTOTAL	440,816	gsf	15.00	6,612,240		\$1,202
C3010	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL FLOOR FINISHES Floor finishes complete package Floor prep at existing SUBTOTAL CEILING FINISHES	440,816 140,980	gsf sf	15.00 5.00	6,612,240 704,900		\$1,202
C3010	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL FLOOR FINISHES Floor finishes complete package Floor prep at existing SUBTOTAL CEILING FINISHES Ceiling finishes complete package SUBTOTAL	440,816 140,980	gsf sf	15.00 5.00	6,612,240 704,900	7,317,140	
C3010	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL FLOOR FINISHES Floor finishes complete package Floor prep at existing SUBTOTAL CEILING FINISHES Ceiling finishes complete package	440,816 140,980	gsf sf	15.00 5.00	6,612,240 704,900	7,317,140	
C3010	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL FLOOR FINISHES Floor finishes complete package Floor prep at existing SUBTOTAL CEILING FINISHES Ceiling finishes complete package SUBTOTAL	440,816 140,980	gsf sf	15.00 5.00	6,612,240 704,900	7,317,140	
C3020	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL FLOOR FINISHES Floor finishes complete package Floor prep at existing SUBTOTAL CEILING FINISHES Ceiling finishes complete package SUBTOTAL TOTAL - INTERIOR FINISHES	440,816 140,980	gsf sf	15.00 5.00	6,612,240 704,900	7,317,140	
C3020	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL FLOOR FINISHES Floor finishes complete package Floor prep at existing SUBTOTAL CEILING FINISHES Ceiling finishes complete package SUBTOTAL TOTAL - INTERIOR FINISHES CONVEYING SYSTEMS	440,816 140,980	gsf sf	15.00 5.00	6,612,240 704,900	7,317,140	
C3020 C3020 C3020 D1010	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL FLOOR FINISHES Floor finishes complete package Floor prep at existing SUBTOTAL CEILING FINISHES Ceiling finishes complete package SUBTOTAL TOTAL - INTERIOR FINISHES CONVEYING SYSTEMS ELEVATOR MISCELLANEOUS METALS	440,816 140,980 440,816	gsf sf gsf	15.00 5.00	6,612,240 704,900 6,612,240	7,317,140	
C3020 C3020 C3030 D1010	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL FLOOR FINISHES Floor finishes complete package Floor prep at existing SUBTOTAL CEILING FINISHES Ceiling finishes complete package SUBTOTAL TOTAL - INTERIOR FINISHES CONVEYING SYSTEMS ELEVATOR MISCELLANEOUS METALS Pit ladder and miscellaneous metals	440,816 140,980 440,816	gsf sf gsf	15.00 5.00 15.00	6,612,240 704,900 6,612,240	7,317,140	
C3020 C3020 C3030 D1010 055000	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL PLOOR FINISHES Floor finishes complete package Floor prep at existing SUBTOTAL CEILING FINISHES Ceiling finishes complete package SUBTOTAL TOTAL - INTERIOR FINISHES CONVEYING SYSTEMS ELEVATOR MISCELLANEOUS METALS Pit ladder and miscellaneous metals Sill angles	440,816 140,980 440,816	gsf sf gsf	15.00 5.00	6,612,240 704,900 6,612,240	7,317,140	
C3020 C3020 C3030 D1010	INTERIOR FINISHES WALL FINISHES Wall finishes complete package SUBTOTAL FLOOR FINISHES Floor finishes complete package Floor prep at existing SUBTOTAL CEILING FINISHES Ceiling finishes complete package SUBTOTAL TOTAL - INTERIOR FINISHES CONVEYING SYSTEMS ELEVATOR MISCELLANEOUS METALS Pit ladder and miscellaneous metals	440,816 140,980 440,816	gsf sf gsf	15.00 5.00 15.00	6,612,240 704,900 6,612,240	7,317,140	\$1,202, \$21,423,



CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

BUILDING BACKUP - OPTION B.4

SUBTOTAL 907,200

TOTAL - CONVEYING SYSTEMS \$907,200

D20 PLUMBING

D20 PLUMBING, GENERALLY

Air source heat pump water heater (2) 500MBH **1** ls 1,000,000.00 1,000,000

Plumbing package complete **440,816** gsf 28.00 12,342,848

SUBTOTAL 13,342,848

TOTAL - PLUMBING \$13,342,848

D30 HVAC

D30 HVAC, GENERALLY

 Geothermal Wells 800' well
 350
 wells
 65,000.00
 22,750,000

 HVAC System; Water Source Heat Pump
 440,816
 gsf
 90.00
 39,673,440

SUBTOTAL 62,423,440

TOTAL - HVAC \$62,423,440

D40 FIRE PROTECTION

D40 FIRE PROTECTION, GENERALLY

Fire Equipment

Fire pump with controller 750GPM, incl Jockey pump with controller 1 ea 150,000.00 150,000

Sprinkler system; complete **440,816** gsf 9.00 3,967,344

SUBTOTAL 4,117,344

TOTAL - FIRE PROTECTION \$4,117,344

D50 ELECTRICAL

D5010 ELECTRICAL SYSTEMS

Gear & DistributionNormal power distribution system

 4000A 277/480V main switchboard
 2
 ea
 185,000.00
 370,000

 Panelboards/feeders
 440,816
 gsf
 8.00
 3,526,528

 Emergency power

 Emergency Generator; 1250 kW Diesel
 1
 ls
 812,500.00
 812,500

Emergency power feeders **440,816** gsf 3.00 1,322,448

 Photovoltaic - 3500 kW

 PV system equipment; roof top
 139,312
 sf
 36.00
 5,015,232

PV system equipment; root top 139,312 si 36.00 5,015,232 PV system equipment; canopy 93,060 sf 60.00 5,583,600 Battery Storage 1 ls 2,500,000 2,500,000

Transparent + opaque vertical cladding BIPV sf 200.00 N/A Equipment Wiring

Feeders + Electrical to equipment 440,816 gsf 10.00 4,408,160 SUBTOTAL

SUBTOTAL 23,538,468

D5020 LIGHTING & POWER

Lighting, Controls + Power 440,816 gsf 18.00 7,934,688
SUBTOTAL 7,934,688

D5030 COMMUNICATION & SECURITY SYSTEMS

 Telecommunications/PA + Clock
 440,816
 gsf
 4.00
 1,763,264

 Performance lighting
 1
 ls
 200,000
 200,000

 Theater AV
 1
 ls
 200,000.00
 200,000

 Stage lighting fixture package
 1
 ls
 250,000.00
 250,000

 Audio Visual Systems
 440,816
 gsf
 9.50
 4,187,752

 Classroom speech + AV
 225
 rms
 5,000.00
 1,125,000

Specialty Communications Systems





DESCRIPTION QTV LNT COST COST COST COST COST COST TOTAL	*48,268,14
BDA system, antenna and annunciator	\$48,268,144
Cell repeater/Distributed antenna system, not specified 440,816 Emergency away communication system at elevator lobbies +stairs 1	\$48,268,144
Emergency 2 way communication system at elevator lobbies +stairs	\$48,268,144
Fire Alarm	\$48,268,144
Security System SUBTOTAL SU	\$48,268,144
14,524,786 14,5	\$48,268,144
D5040 OTHER ELECTRICAL SYSTEMS Common Work Results for Electrical Lightning prevention 440,816 gsf 0.30 132,245 Grounding 440,816 gsf 0.40 176,326 Misc. demolition work 440,816 gsf 0.25 110,204 Temp power and lights 440,816 gsf 1.20 528,979 Seismic restraints/Coordination/misc. 440,816 gsf 3.00 1,322,448 SUBTOTAL S	\$48,268,144
Common Work Results for Electrical Lightning prevention	\$48,268,144
Lightning prevention	\$48,268,144
Grounding	\$48,268,14 <i>2</i>
Misc. demolition work Temp power and lights 440,816 gsf 1.20 528,979 Seismic restraints/Coordination/misc. 440,816 gsf 3.00 1,322,448 SUBTOTAL TOTAL - ELECTRICAL E10 EQUIPMENT E10 EQUIPMENT Loading dock leveler(2), truck restraints (2) and bumpers 1 ls 50,000.00 50,000 110620 THEATRICAL EQUIPMENT Allowance per Architect Stage lighting and fixtures - equipment only 1 ls 358,000.00 358,000 Stage curtains, installed 1 ls 275,000.00 275,000 Stage curtains, installed 1 ls 883,385,00 883,385 Forestage Platforms, installed 1 ls 100,000.00 100,000 Orchestra Enclosure, installed 1 ls 175,000.00 175,000 Orchestra Pit Lift 1 ls 150,000.00 150,000 Auditorium AV Equipment See Electrical	\$48,268,144
Temp power and lights 440,816 gsf 1.20 528,979 Seismic restraints/Coordination/misc. 440,816 gsf 3.00 1,322,448 2,270,202	\$48,268,144
Seismic restraints/Coordination/mise. 440,816 gsf 3.00 1,322,448 2,270,202	\$48,268,144
TOTAL - ELECTRICAL	\$48,268,144
### TOTAL - ELECTRICAL E10	\$48,268,144
E10 EQUIPMENT, GENERALLY	\$48,268,144
E10 EQUIPMENT, GENERALLY 112000 LOADING DOCK EQUIPMENT Loading dock leveler(2), truck restraints (2) and bumpers 1	
112000 LOADING DOCK EQUIPMENT Loading dock leveler(2), truck restraints (2) and bumpers 1	
Loading dock leveler(2), truck restraints (2) and bumpers 1 ls 50,000.00 50,000 110620 THEATRICAL EQUIPMENT Allowance per Architect Stage lighting and fixtures - equipment only Stage rigging, installed Stage curtains, installed Stage curtains, installed Stage curtains, installed Stage Platforms, installed Stage P	
### THEATRICAL EQUIPMENT Allowance per Architect Stage lighting and fixtures - equipment only 1 1s 358,000.00 358,000	
Allowance per Architect Stage lighting and fixtures - equipment only Stage rigging, installed Stage curtains, installed S	
Stage lighting and fixtures - equipment only 1	
Stage rigging, installed 1	
Stage curtains, installed 1	
Forestage Platforms, installed 1	
Orchestra Enclosure, installed Orchestra Pit Lift Auditorium AV Equipment APPLIANCES 1 ls 175,000.00 175,000 150,000 150,000 See Electrical	
Orchestra Pit Lift Auditorium AV Equipment 1 ls 150,000.00 150,000 See Electrical 113100 APPLIANCES	
Orchestra Pit Lift Auditorium AV Equipment see Electrical APPLIANCES	
113100 APPLIANCES	
Residential appliances - allowance 1 ls 60,000.00 60,000	
114000 FOOD SERVICE EQUIPMENT	
Kitchen equipment 1 ls 2,500,000.00 2,500,000	
115300 EDUCATIONAL EQUIPMENT	
Science equipment; 1 ls 400,000.00 400,000	
Kiln 1 ea 5,000.00 5,000	
Allowance for miscellaneous equipment 1 ls 50,000 50,000	
116600 GYM EQUIPMENT	
Gym Equipment 1 ls 500,000.00 500,000	
126000 SEATING	
Auditorium seating 1,000 seat 400.00 400,000	
SUBTOTAL 5,111,385	
TOTAL - EQUIPMENT	\$5,111,385
E20 FURNISHINGS	
E2010 FIXED FURNISHINGS	
122100 WINDOW TREATMENT	
Window shades at exterior glazing including blackout shades at art & 36,662 sf 10.00 366,620 science classrooms - allowance	_

123553 CASEWORK

Casework package

SUBTOTAL

440,816 gsf

12.00

5,289,792

5,656,412



exington High School 07-Oct-24

CSI UNIT EST'D SUB TOTAL
CODE DESCRIPTION QTY UNIT COST COST TOTAL COST

BUILDING BACKUP - OPTION B.4

E2020 MOVABLE FURNISHINGS

All movable furnishings to be provided and installed by owner

SUBTOTAL

TOTAL - FURNISHINGS \$5,656,412

F10 SPECIAL CONSTRUCTION

F10 SPECIAL CONSTRUCTION

 Temporary kitchen
 1
 ls
 500,000.00
 500,000

 Temporary dining; tent structure
 12,000
 sf
 100.00
 1,200,000

 Pre-engineered Greenhouse
 1
 ls
 150,000.00
 150,000

 SUBTOTAL

SUBTOTAL 1,850,000

F20 SELECTIVE BUILDING DEMOLITION

TOTAL - SPECIAL CONSTRUCTION

F2010 BUILDING ELEMENTS DEMOLITION

 Roof demolition
 101,987
 sf
 5.00
 509,935

 Gut demolition
 140,980
 sf
 10.00
 1,409,800

 Temporary shoring
 1
 ls
 350,000.00
 350,000

SUBTOTAL 2,269,735

F2020 HAZARDOUS COMPONENTS ABATEMENT

See main summary for HazMat allowance See Summary

 ${\bf SUBTOTAL}$

TOTAL - SELECTIVE BUILDING DEMOLITION \$2,269,735

SUBTOTAL \$270,622,200

GFA

440,816

\$1,850,000





CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

SITEWORK B.4

G	SITEWORK					
G10	SITE PREPARATION & DEMOLITION	2,015,000	sf			
311000	GENERAL CONDITIONS					
	Mobilizations/Temp Parking/Etc.	1	ls	500,000.00	500,000	
	6' high site construction fence - perimeter	7,500	lf	18.00	135,000	
311000	SITE DEMOLITION AND RELOCATIONS					
	Demolish existing site conditions	1	ls	900,000.00	900,000	
311000	UTILITY DEMOLITION					
	Demolish existing utility lines	1	ls	250,000.00	250,000	
	Utility Support/Ground Improvements	1	ls	1,500,000.00	1,500,000	
311000	VEGETATION & TOPSOIL MANAGEMENT					
	Strip + dispose topsoil (swell 25%)	23,264	cy	37.00	860,768	
	Street sweeping allowance during hauling	1	ls	50,000.00	50,000	
311000	CLEAR GRASSY KNOLL					
	Remove trees/vegetation	1	ls	10,000.00	10,000	
	Strip + dispose topsoil	1,600	cy	37.00	59,200	
	Rock removal; mechanical	1,600	cy	85.00	136,000	
312000	EROSION & SEDIMENT CONTROL		16			
	Silt Fence; installation and removal	7,500	lf	12.00	90,000	
	Erosion Control monitoring & maintenance	1	ls	80,000.00	80,000	
312000	SITE EARTHWORK					
	Site cut to design subgrade	0	cy			
	Cut	0	cy	20.00		
	Store cut onsite				NR	
	Process cut and amend with additional soils for reuse				NR	
	Imported fill	4,100	cy	40.00	164,000	
312000	SOIL DISPOSAL - conversion factor 1.7 to tons Load excess soils for disposal					
	Less than RCS-1 - clean non-regulated	1	ls]	NR	
312000	ESTABLISHING GRADE					
	Sub grade establishment	2,015,000	sf	0.15	302,250	
	Fine grading throughout the site	2,015,000	sf	0.25	503,750	
	General rock removal	3,400	cy	85.00	289,000	
312000	HAZARDOUS MATERIALS					
3-1	UST removal allowance				NR	
	Soil disposal & replacement allowance SUBTOTAL				See Summary	5,829,968
						3,,,,
G20	SITE IMPROVEMENTS					
	Roadways and Parking Lots		c			
	Bituminous concrete pavement - standard	240,000	sf			
	gravel base; 8" thick	18,556	cy	50.00	927,800	
	asphalt top; 1.5" thick	2,294	tns	200.00	458,800	
	asphalt binder; 2" thick	3,065	tns	190.00	582,350	
	Porous Pavement	60,000	sf			
	Choker course; 4" thick crushed stone	944	cy	75.00	70,800	
	Filter course; 8" thick gravel	1,861	cy	65.00	120,965	
	Reservoir course; 8" thick crushed stone	1,861	cy	55.00	102,355	
	Porous pavement; 4" thick	1,514	tns	400.00	605,600	
	Geotextiles to paving	300,000	sf	1.50	450,000	
320000	CURBING					





PSR Opti	ons Cost Est	imate						
CSI					UNIT	EST'D	SUB	TOTAL
CODE		DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
SITEW	ORK B.4							
		Vertical granite curb	14,500	lf	55.00	797,500		
	320000	ROAD MARKINGS AND SIGNS			0			
		Parking spot	470	ea	85.00	39,950		
		Parking spot ADA premium Pavement markings/signage allowance	45	ea ls	250.00 100,000.00	11,250		
		SUBTOTAL	1	18	100,000.00	100,000	4,267,370	
		SUBTOTAL					4,20/,3/0	
	320000	PEDESTRIAN PAVING						
	_	Concrete sidewalks	115,000	sf				
		gravel base; 12" thick	5,324	cy	50.00	266,200		
		Broom finish concrete paving; 5" thick	115,000	sf	16.00	1,840,000		
		Concrete pads	1,500	sf				
		gravel base; 12" thick	104	cy	50.00	5,200		
		Broom finish concrete paving; 8" thick	1,500	sf	24.00	36,000		
		Porous concrete pavers; 20% of Plaza	14,000	sf				
		Open graded stone subbase AASHTO #2; 32" thick	1,731	cy	50.00	86,550		
		Open graded base AASHTO #57; 6" thick	324	cy	50.00	16,200		
		Open graded bedding course AASHTO #8; 2" thick	108	cy	65.00	7,020		
		Pavers	14,000	sf	28.00	392,000		
		Geotextiles on top, bottom and sides of subbase	3,111	sy	3.00	9,333		
		Concrete paving; 80% of Plaza	56,000	sf ov	50.00	100 650		
		gravel base; 12" thick Broom finish concrete paving; 5" thick	2,593 56,000	cy sf	50.00 18.00	129,650 1,008,000		
	320000	STAIRS AND RAMPS	50,000	51	18.00	1,008,000		
	J20000	Ramp/stairs premium	1	ls	250,000.00	250,000		
		SUBTOTAL	_		_0-,	_0-,	4,046,153	
							17-1-7-00	
	320000	SITE IMPROVEMENTS						
	320000	SITE FURNISHINGS						
		Bollards/bike racks/benches/flag poles etc.	1	ls	1,000,000.00	1,000,000		
		New restroom/tickets/concessions building	1,000	sf	700.00	700,000		
		ENTOGENIC OF A DATE A STREET OF THE					,	
	320000	$EXISTING\ STADIUM + TRACK\ ETR$				No Costs Assum	ea	
	320000	ATHLETIC FIELDS						
	320000	Grass fields; sod	360,000	sf				
		Grass fields, sod	300,000	3)				
		Varsity Baseball Diamond; C1	100,000	sf	6.00	600,000		
		Backstops/benches etc.	1	ea	90,000.00	90,000		
		Infield	1	ea	60,000.00	60,000		
		Varsity Softball Diamond; C2	55,000	sf	6.00	330,000		
		Backstops/benches etc.	1	ea	90,000.00	90,000		
		Infield	1	ea	30,000.00	30,000		
		Junior Varsity Baseball Diamond; C3 + Cricket	60,000	sf	6.00	360,000		
		Backstops/benches etc.	1	ea	90,000.00	90,000		
		Infield	1	ea	50,000.00	50,000		
		Little League Diamond; C4	40,000	sf	6.00	240,000		
		Backstops/benches etc.	40,000	ea	90,000.00	90,000		
		Infield	1	ea	30,000.00	30,000		
					g ,	3.,		
		Crumb football field; C5	60,000	sf	6.00	360,000		
		Worthen practice field; C6	45,000	sf	6.00	270,000		
		Torris counts : Postesthall counts				Dan		
		Tennis courts + Basketball courts				ETR		

320000 ATHLETIC EQUIPMENT





CSI	ions Cost Est				UNIT	EST'D	SUB	TOTAL
CODE		DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
SITEW	ORK B.4							
		Equipment allowance	1	ls	180,000.00	180,000		
	320000	BLEACHERS AND SCOREBOARDS						
		Bleachers + pressbox	1,000	seat	900.00	NIC		
		Electronic scoreboard; wireless controls, multiboard	1	ea	75,000.00	NIC		
		Electronic scoreboard; softball	1	ea	45,000.00	NIC		
	000000	EENGING						
	320000	FENCING Fencing allowance	1	ls	500,000,00	500,000		
		SUBTOTAL	1	18	500,000.00	500,000	5,070,000	
		SOBIOTAL					5,070,000	
	320000	SITE WALLS						
	-	Retaining walls/site walls/seat walls	1	ls	750,000.00	750,000		
		SUBTOTAL					750,000	
		Landscaping						
	329900	LAWN AND SEED						
		Topsoil - imported 12" thick; swell 25%	15,741	cy	65.00	1,023,165		
		General Seeding	850,000	sf	0.50	425,000		
		Trees, Shrubs and Perennial planting area	1	ls	1,500,000.00	1,500,000		
		Courtyard	1	ls	150,000.00	150,000		
		IRRIGATION						
		Irrigation area	360,000	sf	1.50	540,000		
		Wetlands reconstruction	28,500	sf	20.00	NR		
		SUBTOTAL					3,638,165	
	~							
	G30 210000	CIVIL MECHANICAL UTILITIES FIRE PROTECTION						
	210000	12" CLDI	4,000	lf	150.00	600,000		
		8" CLDI	200	lf	100.00	20,000		
		6" CLDI	100	lf	95.00	9,500		
		Fire department connection	1	ea	2,500.00	2,500		
		Gate valve; hydrants	1	ls	60,000.00	60,000		
	331000	CONNECTIONS						
		Connect to existing water line; 12" live tap	2	ea	15,000.00	30,000		
	312000	EXCAVATION & BACKFILL						
		DI piping excavation/backfill (inside site)	4,300	lf	50.00	215,000		
		Pressure test & chlorinate	4,300	lf	7.50	32,250		
		Allowance for temporary water service	1	ea	25,000.00	25,000		
		Allowance for temporary support of existing utilities SUBTOTAL				NR	004.050	
		SUBTUTAL					994,250	
	333000	SANITARY SEWER						
	333000	PVC sewer pipe	1,800	lf	60.00	108,000		
		Sewer manholes	7	ea	6,000.00	42,000		
		Connection to existing	2	loc	15,000.00	30,000		
		Grease trap - 6,000 gal.	2	ea	35,000.00	70,000		
		SUBTOTAL					250,000	
	334000	STORM DRAINAGE						
		Infiltration systems	11,500	sf	45.00	517,500		
		Hydrodynamic separators	5	ea	20,000.00	100,000		
		Storm systems; complete at parking; piping; CB + MH etc. Sodded Athletic fields	240,000	sf	10.00	2,400,000		
			260.000	sf	1.00	Included w/fields	,	
		Drainage at field SUBTOTAL	360,000	SI	1.00	menueu w/neids	3,017,500	
		505.0 LIL					3,01/,500	
	G40	ELECTRICAL UTILITIES						
	-40	Concrete:						
		Primary duct bank 6-5" duct bank	900	lf	50.00	45,000		
		Secondary service 4000A - two services	200	lf	50.00	10,000		
		Generator duct bank	100	lf	40.00	4,000		





CSI CODE		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	DV D ·	DESCRI HOW	VIII	0.1111	CO31	0031	TOTAL	2031
IIEWU	ORK B.4	PV 5000 A secondary service (10) 4"C	100	lf	60.00	6,000		
		PV 5000A secondary service (10) - 4"C Communications duct bank 6-4"		lf		6,000		
		Communications duct bank 6-4" Transformer/generator pad	750		40.00	30,000 18,000		
			6	ea	3,000.00	*		
		Site lighting pole bases	56	ea	500.00	28,000		
		Excavation and backfill:		16				
		Primary duct bank 2-5" duct bank	900	lf 16	25.00	22,500		
		Secondary service 4000A	200	lf	30.00	6,000		
		Storage building 400A service	40	lf	22.00	880		
		Generator duct bank	100	lf	30.00	3,000		
		PV 5000A secondary service (10) - 4"C	100	lf	45.00	4,500		
		EV conduits				See Below		
		Communications duct bank 4-4"	750	lf	25.00	18,750		
		Site lighting circuitry	5,200	lf	6.00	31,200		
		2-2" PVC to sports field lighting	1,200	lf	10.00	12,000		
		CCTV circuitry	1,200	lf	6.00	7,200		
		Scoreboard power & data, misc. sports field power, allow	1,000	lf	6.00	6,000		
		SUBTOTAL					253,030	
		<u>Power</u>						
		Site electrical 15 kVOLT- Transformers etc.	1	ls	2,500,000.00	By Owner		
		Utility co. back charges	•	15	2,500,000.00	Included above		
		Primary duct bank	900	lf	180.00	162,000		
		Electric manhole	6	ea	12,500.00	75,000		
		Transformers + 15kVolt switchgear by Owner	U	ca	12,500.00	Included above		
		Secondary service 4000A	200	lf	1 400 00	280,000		
		Generator:	200	11	1,400.00	280,000		
		Generator service	100	lf	400.00	40.000		
		PV:	100	11	400.00	40,000		
			***	16	600.00	0.40.000		
		PV 5000A secondary service (10) - 4"C	400	lf	600.00	240,000		
		Communications	_		4 =05	4 =0 -		
		Connect to existing utility pole	1	ea	1,500.00	1,500		
		Communications duct bank	750	lf	150.00	112,500		
		Communication manhole	2	ea	12,500.00	25,000		
		Site Lighting	0(-6				
		Allowance	360,000	sf	2.00	720,000		
		EV stations		1		05		
		EV stations; single	20	loc	15,000.00	300,000		
		EV stations; EV ready; conduit only	75	loc	4,000.00	300,000		
		EV stations; EV ready; conduit + wiring	50	loc	7,000.00	350,000		
		Sports Fields		1.				
		Sports field lighting, allow 1 baseball field; 1 softball field + rectangle field	2	loc	460,000.00	920,000		
		Fixture MUSCO				Included above		
		Sports field lighting circuitry	1,200	lf	19.00	Included above		
		Scoreboard power & data, misc. sports field power, allow	1,200	ls		Included above		
		Rough-in, allow	1	ls		Included above		
			1	15	კე,000.00	menueu apove		
		Site Demolition				Included/ b:13:	· · ·	
		Site demolition work				Included w/ buildir	_	
		SUBTOTAL					3,526,000	

TOTAL - SITE DEVELOPMENT \$31,642,436



Lexington High School Town of Lexington, MA

PSR Options Cost Estimate

07-Oct-24

GFA

440,816

		CONSTRUCT	TION COST SUMMA	ARY		
	BUILDIN	G SYSTEM	SUB-TOTAL	TOTAL	\$/SF	%
BUILDIN	NG SUMMARY - OPTION C.1.d					
A10	FOUNI	DATIONS				
	A1010	Standard Foundations	\$4,402,553			
	A1020	Special Foundations	\$5,934,250			
	A1030	Lowest Floor Construction	\$5,472,417	\$15,809,220	\$35.86	5.7%
A20	BASEN	IENT CONSTRUCTION				
	A2010	Basement Excavation	\$o			
	A2020	Basement Walls	\$ 0	\$0	\$0.00	0.0%
В10	SUPER	STRUCTURE				
	B1010	Upper Floor Construction	\$17,143,803			
	B1020	Roof Construction	\$9,192,600	\$26,336,403	\$59.74	9.5%
B20	EXTER	IOR CLOSURE				
	B2010	Exterior Walls	\$19,835,307			
	B2020	Windows	\$8,930,842			
	B2030	Exterior Doors	\$440,816	\$29,206,965	\$66.26	10.6%
Взо	ROOFI	NG				
	B3010	Roof Coverings	\$7,581,795			
	B3020	Roof Openings	\$54,000	\$7,635,795	\$17.32	2.8%
C10	INTER	IOR CONSTRUCTION				
	C1010	Partitions	\$19,786,516			
	C1020	Interior Doors	\$5,399,528			
	C1030	Specialties/Millwork	\$6,680,093	\$31,866,137	\$72.29	11.5%
C20	STAIR	CASES				
	C2010	Stair Construction	\$1,217,250			
	C2020	Stair Finishes	\$360,000	\$1,577,250	\$3.58	0.6%
С30	INTER	IOR FINISHES				
	C3010	Wall Finishes	\$7,493,872			
	C3020	Floor Finishes	\$6,612,240			
	C3030	Ceiling Finishes	\$6,612,240	\$20,718,352	\$47.00	7.5%
D10	CONVE	EYING SYSTEMS				
	D1010	Elevator	\$1,207,200	\$1,207,200	\$2.74	0.4%



Lexington High School Town of Lexington, MA

PSR Options Cost Estimate GFA 440,816

07-Oct-24

	BUILDING	SYSTEM	SUB-TOTAL	TOTAL	\$/SF	%
JILDIN	G SUMN	IARY - OPTION C.1.d				
D20	PLUMBING					
	D20	Plumbing	\$13,342,848	\$13,342,848	\$30.27	4.8%
D30	HVAC					
	D30	HVAC	\$62,423,440	\$62,423,440	\$141.61	22.6%
D40	FIRE PI	ROTECTION				
	D40	Fire Protection	\$4,117,344	\$4,117,344	\$9.34	1.5%
D50	ELECTI	RICAL				
	D5010	Complete System	\$50,862,500	\$50,862,500	\$115.38	18.4%
E10	EQUIP	MENT				
	E10	Equipment	\$5,111,385	\$5,111,385	\$11.60	1.9%
E20	FURNIS	SHINGS				
	E2010	Fixed Furnishings	\$5,700,252			
	E2020	Movable Furnishings	NIC	\$5,700,252	\$12.93	2.1%
F10	SPECIA	L CONSTRUCTION				
	F10	Special Construction	\$150,000	\$150,000	\$0.34	0.1%
F20	HAZMA	T REMOVALS				
	F2010	Building Elements Demolition	\$o			
	F2020	Hazardous Components Abatement	\$o	\$0	\$0.00	0.0%



CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

BUILDING BACKUP - OPTION C.1.d

GROSS FLOOR AREA CALCULATION

 Level 1
 169,550

 Level 2
 111,060

 Level 3
 90,000

 Level 4
 70,206

TOTAL GROSS FLOOR AREA (GFA)	440,816 sf

A1010	STANDARD FOUNDATIONS				
	Strip Footings; 1 x 3				
	Formwork	5,750	sf 	15.00	86,250
	Re-bar	37,950	lbs.	2.50	94,875
	Concrete material	335	cy	160.00	53,600
	Placing concrete	335	cy	120.00	40,200
	Perimeter foundation walls; 20" Thick x 3.5 ft H				
	Formwork	20,125	sf	21.00	422,625
	Re-bar	50,313	lbs.	2.50	125,783
	Concrete material	654	cy	160.00	104,640
	Placing concrete	654	cy	120.00	78,480
	Form shelf	2,875	lf	8.00	23,000
	Spread Footings; 9 x 9 x 2 (Three Story)	199	ea		
	Formwork	14,328	sf	18.00	257,904
	Re-bar	96,714	lbs.	2.50	241,785
	Concrete material	1,254	cy	160.00	200,640
	Placing concrete	1,254	cy	120.00	150,480
	Set anchor bolts grout plates	199	ea	250.00	49,750
	Spread Footings; 10 x 10 x 2 (Four Story)	225	ea		
	Formwork	18,000	sf	18.00	324,000
	Re-bar	135,000	lbs.	2.50	337,500
	Concrete material	1,750	cy	160.00	280,000
	Placing concrete	1,750	cy	120.00	210,000
	Set anchor bolts grout plates	225	ea	250.00	56,250
	<u>Piers</u>	424	ea		
	Formwork	5,088	sf	24.00	122,112
	Re-bar	57,240	lbs	2.50	143,100
	Concrete material	198	cy	160.00	31,680
	Placing concrete	198	cy	160.00	31,680
	Housekeeping pads	1	ls	30,000.00	30,000
70001	WATERPROOFING, DAMPPROOFING AND CAULKING				
	Damproofing @ foundation wall	11,500	sf	4.00	46,000
72100	THERMAL INSULATION				
	Rigid insulation to face of foundation wall; 4" R-20	11,500	sf	5.00	57,500
	Brick Shelf 4" insulation	2,875	lf	20.00	57,500
12000	EARTHWORK				
	Strip footings				
	Excavation	3,194	cy	14.00	44,716
	Reuse excess material on site	989	cy	15.00	14,835
	Backfill with select fill	2,205	cy	25.00	55,125
	Spread footings				
	Excavation	8,367	cy	14.00	117,138
	Reuse excess material on site	3,202	cy	15.00	48,030
	Backfill with select fill	5,165	cy	25.00	129,125
	Miscellaneous				
	Miscelaneous				



				UNIT	EST'D	SUB	TOTAL
	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
DING BA	CKUP - OPTION C.1.d						
	Temporary dewatering for foundation work	1	ls	250,000.00	250,000		
	SUBTOTAL					4,402,553	
A1020	SPECIAL FOUNDATIONS						
	Rigid inclusions	169,550	sf	35.00	5,934,250		
	SUBTOTAL					5,934,250	
A1030	LOWEST FLOOR CONSTRUCTION						
033000	CONCRETE						
	Vapor barrier, 15mils	169,550	sf	1.25	211,938		
	Slab on grade	169,550	sf				
	WWF reinforcement	194,983	sf	1.85	360,719		
	Concrete - 5" thick	2,703	cy	170.00	459,510		
	Placing concrete	2,703	cy	65.00	175,695		
	Finishing and curing concrete	169,550	sf	3.00	508,650		
	Control joints - saw cut	169,550	sf	0.10	16,955		
	Miscellaneous						
	Equipment pads	1	ls	30,000.00	30,000		
	Loading dock	1	ls	50,000.00	50,000		
	Elevator pits	3	ea	40,000.00	120,000		
	Radon system				Excluded; NR		
072100	THERMAL INSULATION						
	Perimeter insulation, 4" thick R-20 - 6ft at perimeter	17,250	sf	5.00	86,250		
	Under slab insulation, 2" thick under slab	152,300	sf	3.00	456,900		
312000	EARTHWORK						
	Gravel base, 12"	6,280	cy	45.00	282,600		
	Structural fill	37,000	cy	55.00	2,035,000		
	Allowance for underslab drainage	169,550	sf	2.00	339,100		
	Compact existing sub-grade	169,550	sf	0.50	84,775		
	Underslab E&B for plumbing	169,550	sf	1.50	254,325		
	SUBTOTAL					5,472,417	

A20 BASEMENT CONSTRUCTION

A2010 BASEMENT EXCAVATION

No Work in this section

SUBTOTAL

A2020 BASEMENT WALLS

No Work in this section SUBTOTAL

TOTAL - BASEMENT CONSTRUCTION

B10	SUPERSTRUCTURE

Rioio	FLOOR CONSTRUCTION		lbs/sf tns	including canopies + roof screens		
DIOIO	PLOOR CONSTRUCTION	3,216 \$6,550	\$/Ton	meruding canopies 4	1001 screens	
033000	CONCRETE	\$ 0,550	<i>ъ/ 101</i> 1			
	WWF reinforcement	311,956	sf	1.85	577,119	
	Concrete Fill to metal deck; lightweight, total thickness 6 1/4"	5,486	cy	190.00	1,042,340	
	Place and finish concrete	271,266	sf	3.00	813,798	
	Rebar to decks	81,380	lbs	2.00	162,760	
051200	STRUCTURAL STEEL FRAMING					
	Structural steel framing; Complete; 15 lbs per SF	2,034	tns	5,000.00	10,170,000	
	Steel premium for lateral system due to poor soils; 1 PSF	136	tns	5,000.00	680,000	
	Moment connections	102	ea	750.00	76,500	
	Shear studs	67,817	ea	3.50	237,360	
	3" metal galvanized floor deck	271,266	sf	8.00	2,170,128	



\$26,336,403



PSR Options Cost Estimate GFA 440,816

CSI CODE		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
BUILD	ING BAG	CKUP - OPTION C.1.d						
		Expansion joints	1	ls	100,000.00	100,000		
	078100	FIREPROOFING/FIRESTOPPING						
		Fire proofing to columns and beams; 2 hr	271,266	sf	3.00	813,798		
		Intumescent paint $\ensuremath{@}$ architecturally exposed beams and columns - allow	1	ls	300,000.00	300,000		
		SUBTOTAL					17,143,803	
	B1020	ROOF CONSTRUCTION						
	033000	CONCRETE						
		6" Normal weight concrete deck at low roof and at mechanical equipment pads	35,000	sf	9.00	315,000		
	051200	STRUCTURAL STEEL FRAMING						
		Structural steel framing; Complete; 13 lbs per SF	1,102	tns	5,000.00	5,510,000		
		Structural steel framing; 2 lbs per SF premium at RTU's	35	tns	4,800.00	168,000		
		Steel premium for lateral system due to poor soils; 1 PSF	85	tns	5,000.00	425,000		
		Roof screens	80	tns	5,500.00	440,000		
		Decking						
		1 1/2" galvanized metal deck, typical	169,550	sf	7.00	1,186,850		
	078100	FIREPROOFING/FIRESTOPPING						
		Fireproofing to columns, beams and deck; 1 hr	169,550	sf	5.00	847,750		
		Intumescent paint $@$ architecturally exposed beams and columns - allow	1	ls	300,000.00	300,000		
		SUBTOTAL					9,192,600	

B20	EXTERIOR CLOSURE]			
B2010	EXTERIOR WALLS Exterior Wall Area			osure area area solid	
042000	MASONRY				
	Mockup	1	ls	100,000.00	100,000
	Brick veneer; 60% of Solid	73,882	sf	44.00	3,250,808
	Granite veneer base; 2%	2,463	sf	120.00	295,560
	Precast trim allowance	1	ls	1,200,000.00	1,200,000
	4" CMU wall at auditorium	9,000	sf	30.00	270,000
	8" Mineral wool at exterior closure (2 layers 4")	123,137	sf	7.50	923,528
	Miscellaneous flashings and sealants	123,137	sf	1.50	184,706
	Staging to exterior wall	123,137	sf	4.00	492,548
000	MISC. METALS				
	Misc. metals at masonry including loose lintels (relieving angles included in steel tns)	73,882	sf	1.50	110,823
001	WATERPROOFING, DAMPPROOFING AND CAULKING				
	Air barrier	123,137	sf	10.00	1,231,370
	Miscellaneous sealants to closure	123,137	sf	1.00	123,137
100	THERMAL INSULATION				
	4" cellulose insulation in stud	123,137	sf	3.25	400,195
	Insulation at glazed openings	13,682	lf	6.00	82,092
6400	CLADDING				
	Composite metal panel, Alucobond or equal; 18%	22,165	sf	100.00	2,216,500
	Terracotta; 20%	24,627	sf	160.00	3,940,320
	Canopies; soffit + framing	4,000	sf	100.00	400,000

TOTAL - SUPERSTRUCTURE





	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL
DING BA	ACKUP - OPTION C.1.d						
	12' high Acoustic Equipment Screen	16,000	sf	95.00	1,520,000		
	EXPANSION JOINT COVERS						
	Thermal breaks	1	ls	50,000.00	50,000		
	Expansion joints	1	ls	100,000.00	100,000		
				,	,		
092900	GYPSUM BOARD ASSEMBLIES						
	Exterior wall;						
	6" Stud backup	123,137	sf	16.00	1,970,192		
	Gypsum Sheathing	123,137	sf	3.50	430,980		
	Drywall lining to interior face of stud backup	123,137	sf	4.00	492,548		
101400	SIGNAGE						
	Exterior signage - allowance	1	ls	50,000.00	50,000		
	SUBTOTAL					19,835,307	
B2020	o WINDOWS						
	Exterior Wall Area	41,046	sf				
061000	ROUGH CARPENTRY						
	Wood blocking at openings	13,682	lf	10.00	136,820		
070001	WATERPROOFING, DAMPPROOFING AND CAULKING						
	Air barrier/flashing at windows	13,682	lf	10.00	136,820		
	Backer rod & double sealant	13,682	lf	11.00	150,502		
080001	METAL WINDOWS						
	Aluminum windows, triple glazed including interior and exterior trim per details	20,523	sf	175.00	3,591,525		
	Curtainwall, triple glazed including allowance for interior and exterior trim details	20,523	sf	225.00	4,617,675		
	Horizontal aluminum fin sunshades @ 40% of windows, custom color	1,700	lf	175.00	297,500		
	Passive house premium				NR		
089000	LOUVERS						
	Louvers				N/A		
	SUBTOTAL				,	8,930,842	
B2030	EXTERIOR DOORS						
	Allowance for exterior doors	440,816	gsf	1.00	440,816		
	SUBTOTAL					440,816	
	TOTAL - EXTERIOR CLOSURE						\$29,206,
1							

Взо	ROOFING					
055000	MISCELLANOUS METALS					
	Terrace top rail/ladders/stairs	1	ls	80,000.00	80,000	
061000	ROUGH CARPENTRY					
	Rough carpentry and blocking @ roof	169,550	sf	1.50	254,325	
070002	ROOFING AND FLASHING	169,550	total area			
	PVC roof membrane system, white or gray, 1/2" coverboard, 10" polyiso insulation, vapor barrier	169,550	sf	33.00	5,595,150	
	Canopy roofing	4,000	sf	28.00	112,000	
	Plaza deck pavers system at terrace	12,316	sf	70.00	862,120	
	Miscellaneous Roofing					
	Miscellaneous flashings/copings/walkway pads etc.	169,550	sf	4.00	678,200	
	SUBTOTAL					7,581,795



54,000



PSR Options Cost Estimate GFA 440,816

CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

BUILDING BACKUP - OPTION C.1.d

086300 ROOF SKYLIGHTS

Aluminum framed skylight (4loc)

None Assumed

Smoke vents; 7'x7' **3** ea 18,000.00 54,000 SUBTOTAL

TOTAL - ROOFING \$7,635,795

	INTERIOR CONSTRUCTION					
C1010	PARTITIONS					
40001	MASONRY					
	Allowance for masonry partitions	440,816	gsf	6.00	2,644,896	
061000	ROUGH CARPENTRY					
	Backer panels in electrical closets	1	ls	10,000.00	10,000	
	Wood blocking at interiors	440,816	gsf	0.50	220,408	
78400	FIREPROOFING/FIRESTOPPING					
	Fire stopping including slab edges and core	440,816	gsf	1.00	440,816	
070001	WATERPROOFING, DAMPPROOFING AND CAULKING					
	Miscellaneous sealants throughout building	440,816	gsf	1.25	551,020	
78150	EXPANSION JOINTS					
, ,	Allowance for expansion joint covers	1	ls	50,000.00	50,000	
081110	INTERIOR GLAZING					
	Allowance for interior glazing	440,816	gsf	3.00	1,322,448	
092900	GYPSUM BOARD ASSEMBLIES					
, ,	Allowance for GWB partitions	440,816	gsf	33.00	14,546,928	
	SUBTOTAL					19,786,51
C1020	INTERIOR DOORS					<i>311</i> 10
C1020		9.6		0.00	0.506.500	
	Doors, frames, hardware; complete	440,816	gsf	8.00	3,526,528	
	Fire shutters	1	ls	150,000.00	150,000	
	Security doors Premium for electronic hardware	16 882	loc	25,000.00	400,000	
	SUBTOTAL	862	set	1,500.00	1,323,000	5,399,52
C1030	SPECIALTIES / MILLWORK					
055000	MISCELLANEOUS METALS					
155000	Miscellaneous metals throughout building	440,816	gsf	5.00	2,204,080	
		440,010	80-	5.00	2,204,000	
061000	ROUGH CARPENTRY					
062000	INTERIOR ARCHITECTURAL WOODWORK					
	Interior millwork package	440,816	gsf	3.00	1,322,448	
01100	VISUAL DISPLAY SURFACES					
01100	VISUAL DISPLAY SURFACES Markerboard and tackboard package	440,816	gsf	2.00	881,632	
101100	Markerboard and tackboard package	440,816	gsf	2.00	881,632	
01100	Markerboard and tackboard package SIGNAGE					
	Markerboard and tackboard package	440,816 440,816	gsf gsf	2.00	881,632 881,632	
01400	Markerboard and tackboard package SIGNAGE Room identification, directional & safety signage, building directory					
	Markerboard and tackboard package SIGNAGE Room identification, directional & safety signage, building directory + environmental graphics					
01400 02800	Markerboard and tackboard package SIGNAGE Room identification, directional & safety signage, building directory + environmental graphics TOILET ACCESSORIES	440,816	gsf	2.00	881,632	
01400	Markerboard and tackboard package SIGNAGE Room identification, directional & safety signage, building directory + environmental graphics TOILET ACCESSORIES Toilet accessories/compartments	440,816	gsf	2.00	881,632	
01400 02800	Markerboard and tackboard package SIGNAGE Room identification, directional & safety signage, building directory + environmental graphics TOILET ACCESSORIES Toilet accessories/compartments FIRE PROTECTION SPECIALTIES	440,816 440,816	gsf	2.00	881,632 440,816	



				UNIT	EST'D	SUB	TOTAL
	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
ING BAG	CKUP - OPTION C.1.d			<u>-</u>	·		
	Student lockers	440,816	gsf	2.00	881,632		
	SUBTOTAL					6,680,093	
	TOTAL - INTERIOR CONSTRUCTION						\$31,86
C20	STAIRCASES						
C2010	STAIR CONSTRUCTION						
033000	CONCRETE						
	Concrete to stairs	18	flt	5,000.00	90,000		
055000	MISCELLANEOUS METALS						
	Egress stairs w/ stainless steel rails and handrails	15	flt	50,000.00	750,000		
	Projection room stair, 4' wide	1	flt	40,000.00	40,000		
	<u>Learning stair</u>						
	Stainless steel guardrail	65	lf	425.00	27,625		
	Stainless steel handrail	55	lf	175.00	9,625		
	Adjacent stairs; 5'-3" wide	2	flt	75,000.00	150,000		
	Learning stair framing						
	Framing at learning stair - premium	1	ls	150,000.00	150,000		
	SUBTOTAL					1,217,250	
C2020	STAIR FINISHES						
	RESILIENT FLOORS						
090003	Stair finishes	18	flts	20,000,00	360,000		
	SUBTOTAL	10	1113	20,000.00	300,000	360,000	
						300,000	
	TOTAL - STAIRCASES						\$1,57
Сзо	INTERIOR FINISHES						
C3010	WALL FINISHES						
	Wall finishes complete package	440,816	gsf	17.00	7,493,872		
	SUBTOTAL					7,493,872	
Canan	FLOOR FINISHES						
0,020	Floor finishes complete package	440,816	gsf	15.00	6,612,240		
	SUBTOTAL	440,010	851	13.00	0,012,240	6,612,240	
	562101112					0,012,240	
C3030	CEILING FINISHES		c - C		6.6		
	Ceiling finishes complete package	440,816	gsf	15.00	6,612,240	6 (40 5 :-	
	SUBTOTAL					6,612,240	
	TOTAL - INTERIOR FINISHES						\$20,71
D	CONVEYING SYSTEMS						
D10							
D1010	ELEVATOR						
055000	MISCELLANEOUS METALS						
	Pit ladder and miscellaneous metals	3	ea	900.00	2,700		
	Sill angles	3	ls	1,500.00	4,500		
142100	ELEVATOR						
	Electric traction elevator, 3 stop, 5,000lbs	3	ea	400,000.00	1,200,000		
	SUBTOTAL	Ū				1,207,200	
	TOTAL - CONVEYING SYSTEMS						\$1,20
D20	PLUMBING						
D20	PLUMBING, GENERALLY						
	Air source heat pump water heater (2) 500MBH	1	ls	1,000,000.00	1,000,000		
	Plumbing package complete	440,816	gsf	28.00	12,342,848		

Plumbing package complete

28.00

12,342,848

gsf

440,816



CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

BUILDING BACKUP - OPTION C.1.d

SUBTOTAL 13,342,848

TOTAL - PLUMBING \$13,342,848

HVAC D30

D30 HVAC, GENERALLY

> Geothermal Wells 800' well wells 65,000.00 22,750,000 350 HVAC System; Water Source Heat Pump 440,816 gsf 39,673,440 90.00

SUBTOTAL 62,423,440

TOTAL - HVAC \$62,423,440

D40 FIRE PROTECTION

D40 FIRE PROTECTION, GENERALLY

Fire Equipment

Fire pump with controller 750GPM, incl Jockey pump with controller 1 ea 150,000.00 150,000

Sprinkler system; complete 440,816 gsf 9.00 3,967,344

SUBTOTAL 4,117,344

TOTAL - FIRE PROTECTION \$4,117,344

ea

gsf

440,816

185,000.00

8.00

18.00

370,000

3,526,528

D50 ELECTRICAL

D5010 ELECTRICAL SYSTEMS **Gear & Distribution**

Panelboards/feeders

Normal power distribution system 4000A 277/480V main switchboard

Emergency power Emergency Generator; 1250 kW Diesel ls 812,500.00 812,500 Emergency power feeders 440,816 gsf 3.00 1,322,448 Photovoltaic - 3500 kW PV system equipment; roof top; low roof 33,808 36.00 1,217,088 sf PV system equipment; roof top; High roof (with Structure) 84,825 sf 60.00 5,089,500 sf PV system equipment; canopy 102,250 60.00 6,135,000 Battery Storage ls 2,500,000 2,500,000 Transparent + opaque vertical cladding BIPV 3,758 sf 200.00 751,600 **Equipment Wiring** Feeders + Electrical to equipment 440,816 gsf 10.00 4,408,160

SUBTOTAL 26,132,824

D5020 LIGHTING & POWER

Lighting, Controls + Power

7,934,688 SUBTOTAL 7,934,688

440,816

gsf

D5030 COMMUNICATION & SECURITY SYSTEMS

Telecommunications/PA + Clock440,816 gsf 4.00 1,763,264 Performance lighting Theater AV ls 1 200,000.00 200,000 Stage lighting fixture package ls250,000.00 250,000 gsf Audio Visual Systems 440,816 4,187,752 9.50 Classroom speech + AV 225 rms 5,000.00 1,125,000 Specialty Communications Systems BDA system, antenna and annunciator 440,816 sf 0.65 286,530

Cell repeater/Distributed antenna system, not specified 440,816 sf 1.00 440,816 Emergency 2 way communication system at elevator lobbies +stairs ls 100,000.00 100,000 Fire Alarm 440,816 gsf 4.00 1,763,264 Security System 440,816 gsf 10.00 4,408,160

SUBTOTAL 14,524,786

D5040 OTHER ELECTRICAL SYSTEMS





tions cost	Estimate					GFA	4
	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
DING BA	CKUP - OPTION C.1.d	•					
	Common Work Results for Electrical						
	Lightning prevention	440,816	gsf	0.30	132,245		
	Grounding	440,816	gsf	0.40	176,326		
	Misc. demolition work	440,816	gsf	0.25	110,204		
	Temp power and lights	440,816	gsf	1.20	528,979		
	Seismic restraints/Coordination/misc.	440,816	gsf	3.00	1,322,448		
	SUBTOTAL					2,270,202	
	TOTAL - ELECTRICAL						\$50,862
E10	EQUIPMENT						
E10	EQUIPMENT, GENERALLY						
112000	LOADING DOCK EQUIPMENT						
	Loading dock leveler(2), truck restraints (2) and bumpers	1	ls	50,000.00	50,000		
110620	THEATRICAL EQUIPMENT						
	Allowance per Architect		,	. 0			
	Stage lighting and fixtures - equipment only	1	ls	358,000.00	358,000		
	Stage rigging, installed	1	ls	275,000.00	275,000		
	Stage curtains, installed	1	ls	88,385.00	88,385		
	Forestage Platforms, installed	1	ls	100,000.00	100,000		
	Orchestra Enclosure, installed	1	ls	175,000.00	175,000		
	Orchestra Pit Lift	1	ls	150,000.00	150,000		
	Auditorium AV Equipment				See Electrical		
113100	APPLIANCES						
	Residential appliances - allowance	1	ls	60,000.00	60,000		
114000	FOOD SERVICE EQUIPMENT						
	Kitchen equipment	1	ls	2,500,000.00	2,500,000		
115300	EDUCATIONAL EQUIPMENT						
	Science equipment;	1	ls	400,000.00	400,000		
	Kiln	1	ea	5,000.00	5,000		
	Allowance for miscellaneous equipment	1	ls	50,000	50,000		
116600	GYM EQUIPMENT						
	Gym Equipment	1	ls	500,000.00	500,000		
126000	SEATING						
120000		1.000	cont	100.00	100.000		
	Auditorium seating SUBTOTAL	1,000	seat	400.00	400,000	= 444 00=	
	SUBIOTAL					5,111,385	
	TOTAL - EQUIPMENT						\$5,11
E20	FURNISHINGS						
E2010	FIXED FURNISHINGS						
122100	WINDOW TREATMENT						
122100	Window shades at exterior glazing including blackout shades at art & science classrooms - allowance	41,046	sf	10.00	410,460		
123553	CASEWORK						
	Casework package	440,816	gsf	12.00	5,289,792		
	SUBTOTAL	/	-		=: 24/2	5,700,252	
E2020	MOVABLE FURNISHINGS						
22020	All movable furnishings to be provided and installed by owner						
	SUBTOTAL					NIC	

F10 SPECIAL CONSTRUCTION

F10 SPECIAL CONSTRUCTION



07-Oct-24

GFA 440,816 **PSR Options Cost Estimate**

TOTAL CODE DESCRIPTION QTY UNIT COST TOTAL COST

BUILDING BACKUP - OPTION C.1.d

Pre-engineered Greenhouse ls 150,000.00 150,000

SUBTOTAL 150,000

TOTAL - SPECIAL CONSTRUCTION \$150,000

F20 SELECTIVE BUILDING DEMOLITION

F2010 BUILDING ELEMENTS DEMOLITION

No items in this section SUBTOTAL

F2020 HAZARDOUS COMPONENTS ABATEMENT

See main summary for HazMat allowance

See Summary SUBTOTAL

TOTAL - SELECTIVE BUILDING DEMOLITION

SUBTOTAL \$276,065,091





CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

SITEWORK C.1.d

G	SITEWORK					
G10	SITE PREPARATION & DEMOLITION	2,015,000	sf			
311000	GENERAL CONDITIONS					
	Mobilizations/Temp Parking/Etc.	1	ls	500,000.00	500,000	
	6' high site construction fence - perimeter	7,500	lf	18.00	135,000	
311000	SITE DEMOLITION AND RELOCATIONS					
	Demolish existing site conditions	1	ls	900,000.00	900,000	
311000	UTILITY DEMOLITION					
	Demolish existing utility lines	1	ls	250,000.00	250,000	
	Utility Support/Ground Improvements	1	ls	1,000,000.00	1,000,000	
311000	VEGETATION & TOPSOIL MANAGEMENT					
	Strip + dispose topsoil (swell 25%)	23,264	cy	37.00	860,768	
	Street sweeping allowance during hauling	1	ls	50,000.00	50,000	
311000	CLEAR GRASSY KNOLL					
	Remove trees/vegetation	1	ls	10,000.00	10,000	
	Strip + dispose topsoil	1,600	cy	37.00	59,200	
	Rock removal; mechanical	1,600	cy	85.00	136,000	
312000	EROSION & SEDIMENT CONTROL					
	Silt Fence; installation and removal	7,500	lf	12.00	90,000	
	Erosion Control monitoring & maintenance	1	ls	80,000.00	80,000	
312000	SITE EARTHWORK					
	Site cut to design subgrade	o	cy			
	Cut	0	cy	20.00		
	Store cut onsite				NR	
	Process cut and amend with additional soils for reuse Imported fill	64,000	cy	40.00	NR 2,560,000	
312000	SOIL DISPOSAL - conversion factor 1.7 to tons					
	Load excess soils for disposal					
	Less than RCS-1 - clean non-regulated	1	ls		NR	
	General rock removal	3,400	cy	85.00	289,000	
312000	ESTABLISHING GRADE					
	Sub grade establishment	2,015,000	sf	0.15	302,250	
	Fine grading throughout the site	2,015,000	sf	0.25	503,750	
312000	HAZARDOUS MATERIALS					
	UST removal allowance				NR	
	Soil disposal & replacement allowance				See Summary	
	SUBTOTAL					7,725,968
G20	SITE IMPROVEMENTS					
	Rituminaus congreto payament standard	286,400	of			
	Bituminous concrete pavement - standard gravel base; 8" thick	280,400 22,143	sf cv	50.00	1 107 150	
	asphalt top; 1.5" thick	2,738	cy tns	200.00	1,107,150 547,600	
	asphalt top, 1.5 thick asphalt binder; 2" thick	3,658	tns	190.00	695,020	
	Porous Pavement	71,600	sf	190.00	090,020	
	Choker course; 4" thick crushed stone	1,127	cy	75.00	84,525	
	Filter course; 8" thick gravel	2,221	cy	65.00	144,365	
	Reservoir course; 8" thick crushed stone	2,221	cy	55.00	122,155	
	Porous pavement; 4" thick	1,807	tns	400.00	722,800	
	Geotextiles to paving	358,000	sf	1.50	537,000	
320000	CURBING	3,50,000		٠.,٠	557,000	





CSI		DESCRIPTION	OTV	UNUT	UNIT	EST'D	SUB	TOTAL
CODE	DI/ C	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
SITEWO	RK C.1.d	Vertical granite curb	19,000	lf	55.00	1.045.000		
	320000	ROAD MARKINGS AND SIGNS	19,000	11	55.00	1,045,000		
	320000	Parking spot	500	ea	85.00	42,500		
		Parking spot ADA premium	45	ea	250.00	11,250		
		Pavement markings/signage allowance	1	ls	100,000.00	100,000		
		SUBTOTAL			,		5,159,365	
	320000	PEDESTRIAN PAVING						
		Concrete sidewalks	115,000	sf				
		gravel base; 12" thick	5,324	cy	50.00	266,200		
		Broom finish concrete paving; 5" thick	115,000	sf	16.00	1,840,000		
		Concrete pads	1,500	sf				
		gravel base; 12" thick	104	cy	50.00	5,200		
		Broom finish concrete paving; 8" thick	1,500	sf	24.00	36,000		
		Porous concrete pavers; 20% of Plaza	14,000	sf	5 0.00	96 ==0		
		Open graded been AASHTO #2; 32" thick	1,731	cy	50.00	86,550		
		Open graded base AASHTO #57; 6" thick Open graded bedding course AASHTO #8; 2" thick	324 108	cy cy	50.00 65.00	16,200 7,020		
		Pavers	14,000	sf	28.00	392,000		
		- 41-040	14,000	31	20.00	392,000		
		Geotextiles on top, bottom and sides of subbase	3,111	sy	3.00	9,333		
		Concrete paving; 80% of Plaza	56,000	sf	5.00	2,000		
		gravel base; 12" thick	2,593	cy	50.00	129,650		
		Broom finish concrete paving; 5" thick	56,000	sf	18.00	1,008,000		
	320000	STAIRS AND RAMPS						
		Ramp/stairs premium	1	ls	250,000.00	250,000		
		SUBTOTAL					4,046,153	
	320000	SITE IMPROVEMENTS						
	320000	SITE FURNISHINGS						
		Bollards/bike racks/benches/flag poles etc.	1	ls	1,000,000.00	1,000,000		
		New restroom/tickets/concessions building	1,000	sf	700.00	700,000		
	320000	$EXISTING\ STADIUM + TRACK\ ETR$				No Costs Assum	ed	
		0 (1)		c				
		Grass fields; sod	360,000	sf				
		Varsity Baseball Diamond; C1	100,000	sf	6.00	600,000		
		Backstops/benches etc.	100,000	ea	90,000.00	90,000		
		Infield	1	ea	60,000.00	60,000		
		······································	-	- Cu	00,000.00	00,000		
		Varsity Softball Diamond; C2	55,000	sf	6.00	330,000		
		Backstops/benches etc.	1	ea	90,000.00	90,000		
		Infield	1	ea	30,000.00	30,000		
		Junior Varsity Baseball Diamond; C3 + Cricket	60,000	sf	6.00	360,000		
		Backstops/benches etc.	1	ea	90,000.00	90,000		
		Infield	1	ea	50,000.00	50,000		
		Little League Diamond; C4	40,000	sf	6.00	240,000		
		Backstops/benches etc.	1	ea	90,000.00	90,000		
		Infield	1	ea	30,000.00	30,000		
		Crumb football field; C5	60,000	sf	6.00	360,000		
		Worthen practice field; C6	45,000	sf	6.00	270,000		
		Tennis courts + Basketball courts				ETR		
	220000	ATHI ETIC EQUIDMENT						
	320000	ATHLETIC EQUIPMENT Equipment allowance	1	ls	180,000.00	180,000		
		Equipment anowance	1	15	100,000.00	100,000		





CSI	1				UNIT	EST'D	SUB	TOTAL
CODE		DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
SITEWO	RK C.1.d							
	320000	BLEACHERS AND SCOREBOARDS						
		Bleachers + pressbox	1,000	seat	900.00	900,000		
		Electronic scoreboard; wireless controls, multiboard	1	ea	75,000.00	75,000		
		Electronic scoreboard; softball	1	ea	45,000.00	45,000		
	320000	FENCING						
		Fencing allowance	1	ls	500,000.00	500,000		
		SUBTOTAL					6,090,000	
	320000	SITE WALLS						
	320000	Retaining walls/site walls/seat walls	1	ls	750,000.00	750,000		
		SUBTOTAL	-	10	/50,000.00	/50,000	750,000	
		0021011112					7,50,000	
		Landscaping						
	329900	LAWN AND SEED						
		Topsoil - imported 6" thick; swell 25%	15,741	cy	65.00	1,023,165		
		General Seeding	850,000	sf	0.50	425,000		
		Trees, Shrubs and Perennial planting area	1	ls	1,500,000.00	1,500,000		
		Courtyard	1	ls	150,000.00	150,000		
		IRRIGATION						
		Irrigation area	360,000	sf	1.50	540,000		
		Wetlands reconstruction	4,714	sf	20.00	NR		
		SUBTOTAL	•//				3,638,165	
							0,-0-,0	
	G30	CIVIL MECHANICAL UTILITIES						
	210000	FIRE PROTECTION						
		12" CLDI	4,000	lf	150.00	600,000		
		8" CLDI	200	lf	100.00	20,000		
		6" CLDI	100	lf	95.00	9,500		
		Fire department connection	1	ea	2,500.00	2,500		
		Gate valve; hydrants	1	ls	60,000.00	60,000		
	331000	CONNECTIONS			45.000.00	22.000		
		Connect to existing water line; 12" live tap	2	ea	15,000.00	30,000		
	312000	EXCAVATION & BACKFILL DI piping excavation/backfill (inside site)	4,300	lf	50.00	215,000		
		Pressure test & chlorinate	4,300	lf	7.50	32,250		
		Allowance for temporary water service	1,300	ea	25,000.00	25,000		
		Allowance for temporary support of existing utilities			-0,	NR		
		SUBTOTAL					994,250	
							, 0	
	333000	SANITARY SEWER						
		PVC sewer pipe	2,337	lf	60.00	140,220		
		Sewer manholes	7	ea	6,000.00	42,000		
		Connection to existing	2	loc	15,000.00	30,000		
		Grease trap - 6,000 gal.	2	ea	35,000.00	70,000		
		SUBTOTAL					282,220	
	334000	STORM DRAINAGE						
		Infiltration systems	11,500	sf	45.00	517,500		
		Hydrodynamic separators	6	ea	20,000.00	120,000		
		Storm systems; complete at parking; piping; CB + MH etc.	286,400	sf	10.00	2,864,000		
		Sodded Athletic fields	06			To almida di 100 m² 3	1	
		Drainage at field	360,000	sf	1.00	Included with Field		
		SUBTOTAL					3,501,500	
	Gan	ELECTRICAL LITTLETIES						
	G40	ELECTRICAL UTILITIES Congrete:						
		Concrete: Primary duct bank 6-5" duct bank	900	lf	50.00	45 000		
		Secondary service 4000A - two services	200	lf	50.00 50.00	45,000 10,000		
		Generator duct bank	100	lf	40.00	4,000		
		PV 5000A secondary service (10) - 4"C	100	lf	60.00	6,000		
		, J. 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	100	**	00.00	5,000		





CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
TEWOR	RK C.1.d						
	Communications duct bank 6-4"	750	lf	40.00	30,000		
	Transformer/generator pad	6	ea	3,000.00	18,000		
	Site lighting pole bases	56	ea	500.00	28,000		
	Excavation and backfill:						
	Primary duct bank 2-5" duct bank	900	lf	25.00	22,500		
	Secondary service 4000A	200	lf	30.00	6,000		
	Storage building 400A service	40	lf	22.00	880		
	Generator duct bank	100	lf	30.00	3,000		
	PV 5000A secondary service (10) - 4"C	100	lf	45.00	4,500		
	EV conduits				See Below		
	Communications duct bank 4-4"	750	lf	25.00	18,750		
	Site lighting circuitry	5,200	lf	6.00	31,200		
	2-2" PVC to sports field lighting	1,200	lf	10.00	12,000		
	CCTV circuitry	1,200	lf	6.00	7,200		
	Scoreboard power & data, misc. sports field power, allow	1,000	lf	6.00	6,000		
	SUBTOTAL					253,030	
	<u>Power</u>						
	Site electrical 15 kVOLT- Transformers etc.	1	ls	2,500,000.00	By Owner		
	Utility co. back charges				Included above		
	Primary duct bank	900	lf	180.00	162,000		
	Electric manhole	6	ea	12,500.00	75,000		
	Transformers + 15kVolt switchgear by Owner				Included above		
	Secondary service 4000A	200	lf	1,400.00	280,000		
	Generator:						
	Generator service	100	lf	400.00	40,000		
	PV:						
	PV 5000A secondary service (10) - 4"C	400	lf	600.00	240,000		
	Communications						
	Connect to existing utility pole	1	ea	1,500.00	1,500		
	Communications duct bank	750	lf	150.00	112,500		
	Communication manhole	2	ea	12,500.00	25,000		
	Site Lighting			,0	0,		
	Allowance	360,000	sf	2.00	720,000		
	EV Stations	0			, -,		
	EV stations; single	20	loc	15,000.00	300,000		
	EV stations; EV ready; conduit only	75	loc	4,000.00	300,000		
	EV stations; EV ready; conduit + wiring	50	loc	7,000.00	350,000		
	Sports Fields	30		,,==3.00	55-,- 50		
	Sports field lighting, allow 1 baseball field; 1 softball field + rectangle field	2	loc	460,000.00	920,000		
	Fixture MUSCO				Included above		
	Sports field lighting circuitry	1,200	lf	19.00	Included above		
		1,200	ls		Included above		
		1	10	10,000.00	mended above		
	Scoreboard power & data, misc. sports field power, allow		le.	25 000 00	Included above		
	Rough-in, allow	1	ls	35,000.00	Included above		
		1	ls	35,000.00	Included above Included w/ buildi	na.	

TOTAL - SITE DEVELOPMENT \$35,966,651



Lexington High School Town of Lexington, MA

PSR Options Cost Estimate

07-Oct-24

GFA 440,816

		CONSTRUCT	TION COST SUMMA	ARY		
	BUILDIN	G SYSTEM	SUB-TOTAL	TOTAL	\$/SF	%
BUILDIN	NG SUMI	MARY - OPTION C.2.b				
A10	FOUNI	DATIONS				
	A1010	Standard Foundations	\$4,315,805			
	A1020	Special Foundations	\$5,892,775			
	A1030	Lowest Floor Construction	\$5,448,297	\$15,656,877	\$35.52	5.8%
A20	BASEN	IENT CONSTRUCTION				
	A2010	Basement Excavation	\$o			
	A2020	Basement Walls	\$ 0	\$0	\$0.00	0.0%
В10	SUPER	STRUCTURE				
	B1010	Upper Floor Construction	\$17,214,220			
	B1020	Roof Construction	\$9,140,380	\$26,354,600	\$59.79	9.7%
B20	EXTER	IOR CLOSURE				
	B2010	Exterior Walls	\$16,897,636			
	B2020	Windows	\$7,360,052			
	B2030	Exterior Doors	\$440,816	\$24,698,504	\$56.03	9.1%
В30	ROOFI	NG				
	B3010	Roof Coverings	\$9,629,383			
	B3020	Roof Openings	\$54,000	\$9,683,383	\$21.97	3.6%
C10	INTER	IOR CONSTRUCTION				
	C1010	Partitions	\$19,786,516			
	C1020	Interior Doors	\$5,399,528			
	C1030	Specialties/Millwork	\$6,680,093	\$31,866,137	\$72.29	11.7%
C20	STAIR	CASES				
	C2010	Stair Construction	\$1,327,250			
	C2020	Stair Finishes	\$400,000	\$1,727,250	\$3.92	0.6%
С30	INTER	IOR FINISHES				
	C3010	Wall Finishes	\$7,493,872			
	C3020	Floor Finishes	\$6,612,240			
	C3030	Ceiling Finishes	\$6,612,240	\$20,718,352	\$47.00	7.6%
D10	CONVE	EYING SYSTEMS				
	D1010	Elevator	\$1,205,700	\$1,205,700	\$2.74	0.4%



Lexington High School Town of Lexington, MA

PSR Options Cost Estimate

Town of Lexington, MA

07-Oct-24

440,816

GFA

		CONSTRUCTION	ON COST SUMM	ARY		
	BUILDING	G SYSTEM	SUB-TOTAL	TOTAL	\$/SF	%
BUILDIN	IG SUMN	MARY - OPTION C.2.b				
D20	PLUME	BING				
	D20	Plumbing	\$13,342,848	\$13,342,848	\$30.27	4.9%
D30	HVAC					
	D30	HVAC	\$62,423,440	\$62,423,440	\$141.61	23.0%
D40	FIRE P	ROTECTION				
	D40	Fire Protection	\$4,117,344	\$4,117,344	\$9.34	1.5%
D50	ELECT	RICAL				
	D5010	Complete System	\$50,957,100	\$50,957,100	\$115.60	18.8%
E10	EQUIP	MENT				
	E10	Equipment	\$2,861,385	\$2,861,385	\$6.49	1.1%
E20	FURNIS	SHINGS				
	E2010	Fixed Furnishings	\$5,625,562			
	E2020	Movable Furnishings	NIC	\$5,625,562	\$12.76	2.1%
F10	SPECIA	L CONSTRUCTION				
	F10	Special Construction	\$150,000	\$150,000	\$0.34	0.1%
F20	HAZMA	AT REMOVALS				
	F2010	Building Elements Demolition	\$o			
	F2020	Hazardous Components Abatement	See Summary	\$0	\$0.00	0.0%
TOTA	I DIDE	CT COST (Trade Costs)		\$271,388,482	\$615.65	100.0%





CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

BUILDING BACKUP - OPTION C.2.b

GROSS FLOOR AREA CALCULATION

 Level 1
 168,365

 Level 2
 120,000

 Level 3
 90,000

 Level 4
 62,451

TOTAL GROSS FLOOR AREA (GFA)	440.816 sf
TOTAL GROSS TLOOK AREA (GFA)	440,010 3)

A10	FOUNDATIONS				
11010	STANDARD FOUNDATIONS	_			
	Strip Footings; 1 x 3				
	Formwork	5,466	sf	15.00	81,990
	Re-bar	36,076	lbs.	2.50	90,190
	Concrete material	319	cy	160.00	51,040
	Placing concrete	319	cy	120.00	38,280
	Perimeter foundation walls; 20" Thick x 3.5 ft H				
	Formwork	19,131	sf	21.00	401,751
	Re-bar	47,828	lbs.	2.50	119,570
	Concrete material	621	cy	160.00	99,360
	Placing concrete	621	cy	120.00	74,520
	Form shelf	2,733	lf	8.00	21,864
	Spread Footings; 9 x 9 x 2 (Three Story)	196	ea		
	Formwork	14,112	sf	18.00	254,016
	Re-bar	95,256	lbs.	2.50	238,140
	Concrete material	1,235	cy	160.00	197,600
	Placing concrete	1,235	cy	120.00	148,200
	Set anchor bolts grout plates	196	ea	250.00	49,000
	Spread Footings; 10 x 10 x 2 (Four Story)	225	ea		
	Formwork	18,000	sf	18.00	324,000
	Re-bar	135,000	lbs.	2.50	337,500
	Concrete material	1,750	cy	160.00	280,000
	Placing concrete	1,750	cy	120.00	210,000
	Set anchor bolts grout plates	225	ea	250.00	56,250
	<u>Piers</u>	421	ea		
	Formwork	5,052	sf	24.00	121,248
	Re-bar	56,835	lbs	2.50	142,088
	Concrete material	196	cy	160.00	31,360
	Placing concrete	196	cy	160.00	31,360
	Housekeeping pads	1	ls	30,000.00	30,000
70001	WATERPROOFING, DAMPPROOFING AND CAULKING				
	Damproofing @ foundation wall	10,932	sf	4.00	43,728
2100	THERMAL INSULATION				
_100	Rigid insulation to face of foundation wall; 4" R-20	10,932	sf	E 00	54,660
	Brick Shelf 4" insulation	2,733	lf	5.00 20.00	54,660
	and the state of t	- ,/33	11	20.00	54,000
2000	EARTHWORK				
	Strip footings				
	Excavation	3,037	cy	14.00	42,518
	Reuse excess material on site	940	cy	15.00	14,100
	Backfill with select fill	2,097	cy	25.00	52,425
	Spread footings				
	Excavation	8,313	cy	14.00	116,382
	Reuse excess material on site	3,181	cy	15.00	47,715
	Backfill with select fill	5,132	cy	25.00	128,300
	<u>Miscellaneous</u>				



				UNIT	EST'D	SUB	TOTAL
	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
DING BA	CKUP - OPTION C.2.b						
	Temporary dewatering for foundation work	1	ls	250,000.00	250,000		
	SUBTOTAL					4,315,805	
A1020	SPECIAL FOUNDATIONS						
	Rigid inclusions	168,365	sf	35.00	5,892,775		
	SUBTOTAL					5,892,775	
A1030	LOWEST FLOOR CONSTRUCTION						
033000	CONCRETE						
	Vapor barrier, 15mils	168,365	sf	1.25	210,456		
	Slab on grade	168,365	sf				
	WWF reinforcement	193,620	sf	1.85	358,197		
	Concrete - 5" thick	2,684	cy	170.00	456,280		
	Placing concrete	2,684	cy	65.00	174,460		
	Finishing and curing concrete	168,365	sf	3.00	505,095		
	Control joints - saw cut	168,365	sf	0.10	16,837		
	Miscellaneous						
	Equipment pads	1	ls	30,000.00	30,000		
	Loading dock	1	ls	50,000.00	50,000		
	Elevator pits	3	ea	40,000.00	120,000		
	Radon system				Excluded; NR		
072100	THERMAL INSULATION						
	Perimeter insulation, 4" thick R-20 - 6ft at perimeter	16,398	sf	5.00	81,990		
	Under slab insulation, 2" thick under slab	151,967	sf	3.00	455,901		
312000	EARTHWORK						
	Gravel base, 12"	6,236	cy	45.00	280,620		
	Structural fill	37,000	cy	55.00	2,035,000		
	Allowance for underslab drainage	168,365	sf	2.00	336,730		
	Compact existing sub-grade	168,365	sf	0.50	84,183		
	Underslab E&B for plumbing	168,365	sf	1.50	252,548		
	SUBTOTAL					5,448,297	

A20 BASEMENT CONSTRUCTION

A2010 BASEMENT EXCAVATION

No Work in this section

SUBTOTAL

A2020 BASEMENT WALLS

No Work in this section SUBTOTAL

TOTAL - BASEMENT CONSTRUCTION

B10 SUPERSTRUCTURE

	TV COD CONOTRIVON	14.6	lbs/sf		C
B1010	FLOOR CONSTRUCTION	3,217	tns	including canopies +	roof screens
		\$6,551	\$/Ton		
033000	CONCRETE				
	WWF reinforcement	313,319	sf	1.85	579,640
	Concrete Fill to metal deck; lightweight, total thickness 6 1/4"	5,510	cy	190.00	1,046,900
	Place and finish concrete	272,451	sf	3.00	817,353
	Rebar to decks	81,735	lbs	2.00	163,470
051200	STRUCTURAL STEEL FRAMING				
	Structural steel framing; Complete; 15 lbs per SF	2,043	tns	5,000.00	10,215,000
	Steel premium for lateral system due to poor soils; 1 PSF	136	tns	5,000.00	680,000
	Moment connections	102	ea	750.00	76,500
	Shear studs	68,113	ea	3.50	238,396
	3" metal galvanized floor deck	272,451	sf	8.00	2,179,608



\$26,354,600



PSR Options Cost Estimate GFA 440,816

CODE		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
BUILDI	NG BAC	CKUP - OPTION C.2.b	ı. — l	·				
		Expansion joints	1	ls	100,000.00	100,000		
O	78100	FIREPROOFING/FIRESTOPPING						
		Fire proofing to columns and beams; 2 hr	272,451	sf	3.00	817,353		
		Intumescent paint $\ensuremath{\textit{@}}$ architecturally exposed beams and columns - allow	1	ls	300,000.00	300,000		
		SUBTOTAL					17,214,220	
	B1020	ROOF CONSTRUCTION						
o	33000	CONCRETE						
		6" Normal weight concrete deck at low roof and at mechanical equipment pads	35,000	sf	9.00	315,000		
0	051200	STRUCTURAL STEEL FRAMING						
		Structural steel framing; Complete; 13 lbs per SF	1,094	tns	5,000.00	5,470,000		
		Structural steel framing; 2 lbs per SF premium at RTU's	35	tns	5,000.00	175,000		
		Steel premium for lateral system due to poor soils; 1 PSF	84	tns	5,000.00	420,000		
		Roof screens	80	tns	5,500.00	440,000		
		Decking						
		1 1/2" galvanized metal deck, typical	168,365	sf	7.00	1,178,555		
o	78100	FIREPROOFING/FIRESTOPPING						
		Fireproofing to columns, beams and deck; 1 hr - includes Intumescent $$	168,365	sf	5.00	841,825		
		Intumescent paint $@$ architecturally exposed beams and columns - allow	1	ls	300,000.00	300,000		
		SUBTOTAL					9,140,380	

B2010	EXTERIOR WALLS	134,309		osure area	
	Exterior Wall Area	100,732	sf total o	area solid	
042000	MASONRY				
	Mockup	1	ls	100,000.00	100,000
	Brick veneer; 60% of Solid	60,439	sf	44.00	2,659,316
	Granite veneer base; 2%	2,015	sf	120.00	241,800
	Precast trim allowance	1	ls	1,200,000.00	1,200,000
	4" CMU wall at auditorium	9,000	sf	30.00	270,000
	8" Mineral wool at exterior closure (2 layers 4")	100,732	sf	7.50	755,490
	Miscellaneous flashings and sealants	100,732	sf	1.50	151,098
	Staging to exterior wall	100,732	sf	4.00	402,928
055000	MISC. METALS				
	Misc. metals at masonry including loose lintels (relieving angles included in steel tns) $$	60,439	sf	1.50	90,659
070001	WATERPROOFING, DAMPPROOFING AND CAULKING				
	Air barrier	100,732	sf	10.00	1,007,320
	Miscellaneous sealants to closure	100,732	sf	1.00	100,732
072100	THERMAL INSULATION				
	4" cellulose insulation in stud	100,732	sf	3.25	327,379
	Insulation at glazed openings	11,192	lf	6.00	67,152
076400	CLADDING				
	Composite metal panel, Alucobond or equal; 18%	18,132	sf	100.00	1,813,200
	Terracotta; 20%	20,146	sf	160.00	3,223,360
	Canopies; soffit + framing	4,000	sf	100.00	400,000
	12' high Acoustic Equipment Screen	16,000	sf	95.00	1,520,000
	EXPANSION JOINT COVERS				
	Initiation Continuo				

TOTAL - SUPERSTRUCTURE





				UNIT	EST'D	SUB	TOTAL
	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
DING BA	CKUP - OPTION C.2.b		U	•		•	
	Thermal breaks	1	ls	50,000.00	50,000		
	Expansion joints	1	ls	100,000.00	100,000		
092900	GYPSUM BOARD ASSEMBLIES						
	Exterior wall;						
	6" Stud backup	100,732	sf	16.00	1,611,712		
	Gypsum Sheathing	100,732	sf	3.50	352,562		
	Drywall lining to interior face of stud backup	100,732	sf	4.00	402,928		
101400	SIGNAGE						
	Exterior signage - allowance	1	ls	50,000.00	50,000		
	SUBTOTAL					16,897,636	
B2020	WINDOWS						
	Exterior Wall Area	33,577	sf				
061000	ROUGH CARPENTRY						
	Wood blocking at openings	11,192	lf	10.00	111,920		
070001	WATERPROOFING, DAMPPROOFING AND CAULKING						
	Air barrier/flashing at windows	11,192	lf	10.00	111,920		
	Backer rod & double sealant	11,192	lf	11.00	123,112		
080001	METAL WINDOWS						
	Aluminum windows, triple glazed including interior and exterior trim per details	16,789	sf	175.00	2,938,075		
	Curtainwall, triple glazed including allowance for interior and exterior trim details	16,789	sf	225.00	3,777,525		
	Horizontal aluminum fin sunshades $@$ 40% of windows, custom color	1,700	lf	175.00	297,500		
	Passive house premium				NR		
089000	LOUVERS						
	Louvers				N/A		
	SUBTOTAL					7,360,052	
B2030	EXTERIOR DOORS						
	Allowance for exterior doors	440,816	gsf	1.00	440,816		
	SUBTOTAL					440,816	
	TOTAL - EXTERIOR CLOSURE						\$24,698,

Взо	ROOFING				
055000	MISCELLANOUS METALS				
0,,,000	Terrace top rail/ladders/stairs	1	ls	80,000.00	80,000
	Terrace top ran/radders/stans	1	18	80,000.00	80,000
061000	ROUGH CARPENTRY				
	Rough carpentry and blocking @ roof	168,365	sf	1.50	252,548
070002	ROOFING AND FLASHING	168,365	total area		
	PVC roof membrane system, white or gray, 1/2" coverboard, 10"	168,365	sf	33.00	5,556,045
	polyiso insulation, vapor barrier				
	Canopy roofing	4,000	sf	28.00	112,000
	Plaza deck pavers system at terrace	42,219	sf	70.00	2,955,330
	Miscellaneous Roofing				
	Miscellaneous flashings/copings/walkway pads etc.	168,365	sf	4.00	673,460
	SUBTOTAL				
B3020	ROOF OPENINGS				
086300	ROOF SKYLIGHTS				
	Aluminum framed skylight (4loc)				None Assumed
				_	

3 ea

18,000.00

54,000

Smoke vents; 7'x7'





CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

BUILDING BACKUP - OPTION C.2.b

SUBTOTAL 54,000

	TOTAL - ROOFING						\$9,683,3
C10	INTERIOR CONSTRUCTION						
C1010	PARTITIONS						
040001	MASONRY						
	Allowance for masonry partitions	440,816	gsf	6.00	2,644,896		
061000	ROUGH CARPENTRY						
	Backer panels in electrical closets	1	ls	10,000.00	10,000		
	Wood blocking at interiors	440,816	gsf	0.50	220,408		
078400	FIREPROOFING/FIRESTOPPING						
	Fire stopping including slab edges and core	440,816	gsf	1.00	440,816		
070001	WATERPROOFING, DAMPPROOFING AND CAULKING						
7,0001	Miscellaneous sealants throughout building	440,816	gsf	1.25	551,020		
		440,010	801	-1-25	331,020		
078150	EXPANSION JOINTS						
	Allowance for expansion joint covers	1	ls	50,000.00	50,000		
081110	INTERIOR GLAZING						
	Allowance for interior glazing	440,816	gsf	3.00	1,322,448		
092900	GYPSUM BOARD ASSEMBLIES						
	Allowance for GWB partitions	440,816	gsf	33.00	14,546,928		
	SUBTOTAL					19,786,516	
						19,700,910	
C1020	INTERIOR DOORS						
	Doors, frames, hardware; complete	440,816	gsf	8.00	3,526,528		
	Fire shutters	1	ls	150,000.00	150,000		
	Security doors	16	loc	25,000.00	400,000		
	Premium for electronic hardware	882	set	1,500.00	1,323,000		
				1,000.00	70 07	= aaa =a0	
	SUBTOTAL			1,900100	70 07	5,399,528	
C1030				1,000.00	<i>(</i> 0)	5,399,528	
	SUBTOTAL			1,00000	,0 0,111	5,399,528	
	SUBTOTAL SPECIALTIES / MILLWORK	440,816	gsf	5.00	2,204,080	5,399,528	
	SUBTOTAL SPECIALTIES / MILLWORK MISCELLANEOUS METALS					5,399,528	
055000 061000	SUBTOTAL SPECIALTIES / MILLWORK MISCELLANEOUS METALS Miscellaneous metals throughout building ROUGH CARPENTRY					5,399,528	
055000	SUBTOTAL SPECIALTIES / MILLWORK MISCELLANEOUS METALS Miscellaneous metals throughout building ROUGH CARPENTRY INTERIOR ARCHITECTURAL WOODWORK	440,816	gsf	5.00	2,204,080	5,399,528	
055000 061000	SUBTOTAL SPECIALTIES / MILLWORK MISCELLANEOUS METALS Miscellaneous metals throughout building ROUGH CARPENTRY					5,399,528	
055000 061000	SUBTOTAL SPECIALTIES / MILLWORK MISCELLANEOUS METALS Miscellaneous metals throughout building ROUGH CARPENTRY INTERIOR ARCHITECTURAL WOODWORK	440,816	gsf	5.00	2,204,080	5,399,528	
055000 061000 062000	SUBTOTAL SPECIALTIES / MILLWORK MISCELLANEOUS METALS Miscellaneous metals throughout building ROUGH CARPENTRY INTERIOR ARCHITECTURAL WOODWORK Interior millwork package	440,816	gsf	5.00	2,204,080	5,399,528	
055000 061000 062000	SUBTOTAL SPECIALTIES / MILLWORK MISCELLANEOUS METALS Miscellaneous metals throughout building ROUGH CARPENTRY INTERIOR ARCHITECTURAL WOODWORK Interior millwork package VISUAL DISPLAY SURFACES	440,816 440,816	gsf gsf	5.00 3.00	2,204,080 1,322,448	5,399,528	
055000 061000 062000	SUBTOTAL SPECIALTIES / MILLWORK MISCELLANEOUS METALS Miscellaneous metals throughout building ROUGH CARPENTRY INTERIOR ARCHITECTURAL WOODWORK Interior millwork package VISUAL DISPLAY SURFACES	440,816 440,816	gsf gsf	5.00 3.00	2,204,080 1,322,448	5,399,528	
055000 061000 062000	SUBTOTAL SPECIALTIES / MILLWORK MISCELLANEOUS METALS Miscellaneous metals throughout building ROUGH CARPENTRY INTERIOR ARCHITECTURAL WOODWORK Interior millwork package VISUAL DISPLAY SURFACES Markerboard and tackboard package	440,816 440,816	gsf gsf	5.00 3.00	2,204,080 1,322,448	5,399,528	
055000 061000 062000	SUBTOTAL SPECIALTIES / MILLWORK MISCELLANEOUS METALS Miscellaneous metals throughout building ROUGH CARPENTRY INTERIOR ARCHITECTURAL WOODWORK Interior millwork package VISUAL DISPLAY SURFACES Markerboard and tackboard package SIGNAGE Room identification, directional & safety signage, building directory	440,816 440,816	gsf gsf gsf	5.00 3.00 2.00	2,204,080 1,322,448 881,632	5,399,528	
055000 061000 062000 001100	SUBTOTAL SPECIALTIES / MILLWORK MISCELLANEOUS METALS Miscellaneous metals throughout building ROUGH CARPENTRY INTERIOR ARCHITECTURAL WOODWORK Interior millwork package VISUAL DISPLAY SURFACES Markerboard and tackboard package SIGNAGE Room identification, directional & safety signage, building directory + environmental graphics	440,816 440,816	gsf gsf gsf	5.00 3.00 2.00	2,204,080 1,322,448 881,632	5,399,528	
055000 061000 062000 001100	SUBTOTAL SPECIALTIES / MILLWORK MISCELLANEOUS METALS Miscellaneous metals throughout building ROUGH CARPENTRY INTERIOR ARCHITECTURAL WOODWORK Interior millwork package VISUAL DISPLAY SURFACES Markerboard and tackboard package SIGNAGE Room identification, directional & safety signage, building directory + environmental graphics TOILET ACCESSORIES Toilet accessories/compartments	440,816 440,816 440,816	gsf gsf gsf	5.00 3.00 2.00 2.00	2,204,080 1,322,448 881,632 881,632	5,399,528	
055000 061000 062000 001100	SUBTOTAL SPECIALTIES / MILLWORK MISCELLANEOUS METALS Miscellaneous metals throughout building ROUGH CARPENTRY INTERIOR ARCHITECTURAL WOODWORK Interior millwork package VISUAL DISPLAY SURFACES Markerboard and tackboard package SIGNAGE Room identification, directional & safety signage, building directory + environmental graphics TOILET ACCESSORIES Toilet accessories/compartments FIRE PROTECTION SPECIALTIES	440,816 440,816 440,816 440,816	gsf gsf gsf gsf	5.00 3.00 2.00 2.00	2,204,080 1,322,448 881,632 881,632	5,399,528	
055000 061000 062000 001100	SUBTOTAL SPECIALTIES / MILLWORK MISCELLANEOUS METALS Miscellaneous metals throughout building ROUGH CARPENTRY INTERIOR ARCHITECTURAL WOODWORK Interior millwork package VISUAL DISPLAY SURFACES Markerboard and tackboard package SIGNAGE Room identification, directional & safety signage, building directory + environmental graphics TOILET ACCESSORIES Toilet accessories/compartments FIRE PROTECTION SPECIALTIES Fire extinguisher cabinets	440,816 440,816 440,816 440,816	gsf gsf gsf gsf	5.00 3.00 2.00 2.00 1.00 65,852.71	2,204,080 1,322,448 881,632 881,632 440,816 65,853	5,399,528	
055000 061000 062000 001100	SPECIALTIES / MILLWORK MISCELLANEOUS METALS Miscellaneous metals throughout building ROUGH CARPENTRY INTERIOR ARCHITECTURAL WOODWORK Interior millwork package VISUAL DISPLAY SURFACES Markerboard and tackboard package SIGNAGE Room identification, directional & safety signage, building directory + environmental graphics TOILET ACCESSORIES Toilet accessories/compartments FIRE PROTECTION SPECIALTIES Fire extinguisher cabinets AED cabinets	440,816 440,816 440,816 440,816	gsf gsf gsf gsf	5.00 3.00 2.00 2.00	2,204,080 1,322,448 881,632 881,632	5,399,528	
055000 061000 062000 001100	SUBTOTAL SPECIALTIES / MILLWORK MISCELLANEOUS METALS Miscellaneous metals throughout building ROUGH CARPENTRY INTERIOR ARCHITECTURAL WOODWORK Interior millwork package VISUAL DISPLAY SURFACES Markerboard and tackboard package SIGNAGE Room identification, directional & safety signage, building directory + environmental graphics TOILET ACCESSORIES Toilet accessories/compartments FIRE PROTECTION SPECIALTIES Fire extinguisher cabinets	440,816 440,816 440,816 440,816	gsf gsf gsf gsf	5.00 3.00 2.00 2.00 1.00 65,852.71	2,204,080 1,322,448 881,632 881,632 440,816 65,853	5,399,528	
055000 061000 062000 01100 01400	SPECIALTIES / MILLWORK MISCELLANEOUS METALS Miscellaneous metals throughout building ROUGH CARPENTRY INTERIOR ARCHITECTURAL WOODWORK Interior millwork package VISUAL DISPLAY SURFACES Markerboard and tackboard package SIGNAGE Room identification, directional & safety signage, building directory + environmental graphics TOILET ACCESSORIES Toilet accessories/compartments FIRE PROTECTION SPECIALTIES Fire extinguisher cabinets AED cabinets	440,816 440,816 440,816 440,816	gsf gsf gsf gsf	5.00 3.00 2.00 2.00 1.00 65,852.71	2,204,080 1,322,448 881,632 881,632 440,816 65,853	5,399,528 6,680,093	



CSI				UNIT	EST'D	SUB	TOTAL	l
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST	l

BUILDING BACKUP - OPTION C.2.b

C20	STAIRCASES						
C2010	STAIR CONSTRUCTION						
33000	CONCRETE						
	Concrete to stairs MISCELLANEOUS METALS	20	flt	5,000.00	100,000		
055000							
	Egress stairs w/ stainless steel rails and handrails	17	flt	50,000.00	850,000		
	Projection room stair, 4' wide	1	flt	40,000.00	40,000		
	Learning stair						
	Stainless steel guardrail	65	lf	425.00	27,625		
	Stainless steel handrail	55	lf	175.00	9,625		
	Adjacent stairs; 5'-3" wide	2	flt	75,000.00	150,000		
	Learning stair framing						
	Framing at learning stair - premium	1	ls	150,000.00	150,000		
	SUBTOTAL					1,327,250	
C2020	STAIR FINISHES						
90005	RESILIENT FLOORS						
	Stair finishes	20	flts	20,000.00	400,000		
	SUBTOTAL					400,000	
	TOTAL - STAIRCASES						\$1,727,2
Сзо	INTERIOR FINISHES						
C3010	WALL FINISHES						
	Wall finishes complete package	440,816	gsf	17.00	7,493,872		
	SUBTOTAL					7,493,872	
C3020	FLOOR FINISHES						
-0	Floor finishes complete package	440,816	gsf	15.00	6,612,240		
	SUBTOTAL	,.	0-	0.11	-7- 7 1-	6,612,240	
C3030	CEILING FINISHES						
	Ceiling finishes complete package	440,816	gsf	15.00	6,612,240		
	SUBTOTAL					6,612,240	
	TOTAL - INTERIOR FINISHES						\$20,718,3
D10	CONVEYING SYSTEMS						
D1010	ELEVATOR						
55000	MISCELLANEOUS METALS						
	Pit ladder and miscellaneous metals	3	ea	900.00	2,700		
	Sill angles	2	ls	1,500.00	3,000		
42100	ELEVATOR						
	Electric traction elevator, 4 stop, 5,000lbs	3	ea	400,000.00	1,200,000		
	SUBTOTAL	3	ou.	400,000.00	1,200,000	1,205,700	
	TOTAL - CONVEYING SYSTEMS						\$1,205,70
D20	PLUMBING						
D20	PLUMBING, GENERALLY						
	PLUMBING, GENERALLY Air source heat pump water heater (2) 500MBH	1	ls	1,000,000.00	1,000,000		
	PLUMBING, GENERALLY	1 440,816	ls gsf	1,000,000.00	1,000,000 12,342,848	13,342,848	

TOTAL - PLUMBING

\$13,342,848



CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

BUILDING BACKUP - OPTION C.2.b

D30 HVAC

D30 HVAC, GENERALLY

 Geothermal Wells 800' well
 350
 wells
 65,000.00
 22,750,000

 HVAC System; Water Source Heat Pump
 440,816
 gsf
 90.00
 39,673,440

SUBTOTAL 62,423,440

TOTAL - HVAC \$62,423,440

D40 FIRE PROTECTION

D40 FIRE PROTECTION, GENERALLY

Fire Equipment

Fire pump with controller 750GPM, incl Jockey pump with controller 1 ea 150,000.00 150,000 Sprinkler system; complete 440,816 gsf 9.00 3,967,344

SUBTOTAL 4,117,344

TOTAL - FIRE PROTECTION \$4,117,344

D₅₀ ELECTRICAL

D5010 ELECTRICAL SYSTEMS

Gear & Distribution

Normal power distribution system 4000A 277/480V main switchboard 185,000.00 ea 370,000 Panelboards/feeders 440,816 gsf 8.00 3,526,528 Emergency power Emergency Generator; 1250 kW Diesel ls 812,500.00 812,500 Emergency power feeders 440,816 gsf 3.00 1,322,448 Photovoltaic - 3500 kW

PV system equipment; low roof top sf 36.00 997,308 27,703 PV system equipment; roof top; High roof (with Structure) 69,258 sf 60.00 4,155,480 PV system equipment; canopy 102,250 sf 60.00 6,135,000 **Battery Storage** ls 2,500,000 2,500,000 Transparent + opaque vertical cladding BIPV 10,000 sf 200.00 2,000,000 **Equipment Wiring**

Feeders + Electrical to equipment

SUBTOTAL 26,227,424

440,816

gsf

10.00

10.00

4,408,160

4,408,160

D5020 LIGHTING & POWER

Lighting, Controls + Power 440,816 gsf 18.00 7,934,688
SUBTOTAL 7,934,688

D5030 COMMUNICATION & SECURITY SYSTEMS

Telecommunications/PA + Clock 440,816 gsf 4.00 1,763,264 Performance lighting Theater AV ls 200,000.00 200,000 Stage lighting fixture package ls 250,000.00 250,000 Audio Visual Systems 440,816 gsf 4,187,752 9.50 Classroom speech + AV 225 rms 5,000.00 1,125,000 Specialty Communications Systems 286,530 BDA system, antenna and annunciator 440,816 sf 0.65

Emergency 2 way communication system at elevator lobbies +stairs 1 ls 100,000.000 1,763,264

SUBTOTAL 14,524,786

440,816

gsf

D5040 OTHER ELECTRICAL SYSTEMS

Security System

Common Work Results for Electrical Lightning prevention 440,816 gsf 0.30 132,245 Grounding 440,816 gsf 0.40 176,326 Misc. demolition work 440,816 gsf 110,204 0.25





1				ITATET	portn	cim I	TOTA*
	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL
DING BA	CKUP - OPTION C.2.b		l.			I	
	Temp power and lights	440,816	gsf	1.20	528,979		
	Seismic restraints/Coordination/misc.	440,816	gsf	3.00	1,322,448		
	SUBTOTAL					2,270,202	
	TOTAL - ELECTRICAL						\$50,9
							10-750
E10	EQUIPMENT						
E10	EQUIPMENT, GENERALLY						
112000	LOADING DOCK EQUIPMENT						
	Loading dock leveler(2), truck restraints (2) and bumpers	1	ls	50,000.00	50,000		
110620	THEATRICAL EQUIPMENT						
	Allowance per Architect						
	Stage lighting and fixtures - equipment only	1	ls	358,000.00	358,000		
	Stage rigging, installed	1	ls	275,000.00	275,000		
	Stage curtains, installed	1	ls	88,385.00	88,385		
	Forestage Platforms, installed	1	ls	100,000.00	100,000		
	Orchestra Enclosure, installed	1	ls	175,000.00	175,000		
	Orchestra Pit Lift	1	ls	150,000.00	150,000		
	Auditorium AV Equipment				See Electrical		
113100	APPLIANCES						
	Residential appliances - allowance	1	ls	60,000.00	60,000		
114000	FOOD SERVICE EQUIPMENT						
	Kitchen equipment	1	ls	250,000.00	250,000		
115300	EDUCATIONAL EQUIPMENT						
	Science equipment;	1	ls	400,000.00	400,000		
	Kiln	1	ea	5,000.00	5,000		
	Allowance for miscellaneous equipment	1	ls	50,000	50,000		
116600	GYM EQUIPMENT						
	Gym Equipment	1	ls	500,000.00	500,000		
126000	SEATING						
	Auditorium seating	1,000	seat	400.00	400,000		
	SUBTOTAL					2,861,385	
	TOTAL - EQUIPMENT						\$2,80
E20	FURNISHINGS						
E2010	FIXED FURNISHINGS						
122100	WINDOW TREATMENT						
	Window shades at exterior glazing including blackout shades at art &	00.555	sf	10.00	335,770		
	science classrooms - allowance	33,577					
123553		33,3//					
123553	science classrooms - allowance	440,816	gsf	12.00	5,289,792	5,625,562	
	science classrooms - allowance CASEWORK Casework package			12.00	5,289,792	5,625,562	
	science classrooms - allowance CASEWORK Casework package SUBTOTAL			12.00	5,289,792	5,625,562	
	science classrooms - allowance CASEWORK Casework package SUBTOTAL MOVABLE FURNISHINGS			12.00	5,289,792	5,625,562 NIC	
	science classrooms - allowance CASEWORK Casework package SUBTOTAL MOVABLE FURNISHINGS All movable furnishings to be provided and installed by owner			12.00	5,289,792		\$5,62
E2020	science classrooms - allowance CASEWORK Casework package SUBTOTAL MOVABLE FURNISHINGS All movable furnishings to be provided and installed by owner SUBTOTAL TOTAL - FURNISHINGS			12.00	5,289,792		\$5,62
	science classrooms - allowance CASEWORK Casework package SUBTOTAL MOVABLE FURNISHINGS All movable furnishings to be provided and installed by owner SUBTOTAL			12.00	5,289,792		\$5,62
E2020	science classrooms - allowance CASEWORK Casework package SUBTOTAL MOVABLE FURNISHINGS All movable furnishings to be provided and installed by owner SUBTOTAL TOTAL - FURNISHINGS SPECIAL CONSTRUCTION SPECIAL CONSTRUCTION		gsf				\$5,62
E2020	science classrooms - allowance CASEWORK Casework package SUBTOTAL MOVABLE FURNISHINGS All movable furnishings to be provided and installed by owner SUBTOTAL TOTAL - FURNISHINGS SPECIAL CONSTRUCTION SPECIAL CONSTRUCTION Pre-engineered Greenhouse			150,000.00	5,289,792 150,000	NIC	\$5,62
E2020	science classrooms - allowance CASEWORK Casework package SUBTOTAL MOVABLE FURNISHINGS All movable furnishings to be provided and installed by owner SUBTOTAL TOTAL - FURNISHINGS SPECIAL CONSTRUCTION SPECIAL CONSTRUCTION	440,816	gsf				\$5,62



exington High School 07-Oct-24

PSR Options Cost Estimate GFA 440,816

CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

BUILDING BACKUP - OPTION C.2.b

F20 SELECTIVE BUILDING DEMOLITION

F2010 BUILDING ELEMENTS DEMOLITION

No items in this section

SUBTOTAL

F2020 HAZARDOUS COMPONENTS ABATEMENT

See main summary for HazMat allowance

SUBTOTAL

See Summary

TOTAL - SELECTIVE BUILDING DEMOLITION

SUBTOTAL \$271,388,482





CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

SITEWORK C.2.b

G	SITEWORK					
G10	SITE PREPARATION & DEMOLITION	2,015,000	sf			
311000	GENERAL CONDITIONS					
	Mobilizations/Temp Parking/Etc.	1	ls	500,000.00	500,000	
	6' high site construction fence - perimeter	7,500	lf	18.00	135,000	
311000	SITE DEMOLITION AND RELOCATIONS					
	Demolish existing site conditions	1	ls	900,000.00	900,000	
311000	UTILITY DEMOLITION					
	Demolish existing utility lines	1	ls	250,000.00	250,000	
	Utility Support/Ground Improvements	1	ls	1,500,000.00	1,500,000	
311000	VEGETATION & TOPSOIL MANAGEMENT					
	Strip + dispose topsoil (swell 25%)	23,264	cy	37.00	860,768	
	Street sweeping allowance during hauling	1	ls	50,000.00	50,000	
311000	CLEAR GRASSY KNOLL					
	Remove trees/vegetation	1	ls	10,000.00	10,000	
	Strip + dispose topsoil	1,600	cy	37.00	59,200	
	Rock removal; mechanical	1,600	cy	85.00	136,000	
312000	EROSION & SEDIMENT CONTROL					
	Silt Fence; installation and removal	7,500	lf	12.00	90,000	
	Erosion Control monitoring & maintenance	1	ls	80,000.00	80,000	
312000	SITE EARTHWORK					
	Site cut to design subgrade	0	cy			
	Cut	0	cy	20.00		
	Store cut onsite				NR	
	Process cut and amend with additional soils for reuse Imported fill	64,000	cy	40.00	NR 2,560,000	
312000	SOIL DISPOSAL - conversion factor 1.7 to tons	-4,	-5,	40000	_,0,	
	Load excess soils for disposal Less than RCS-1 - clean non-regulated	1	ls		NR	
	-	•	10		1410	
312000	ESTABLISHING GRADE Sub grade establishment	2,015,000	sf	0.15	302,250	
	Fine grading throughout the site	2,015,000	sf	0.15 0.25	503,750	
	General rock removal	3,400	cy	85.00	289,000	
312000	HAZARDOUS MATERIALS					
-	UST removal allowance				NR	
	Soil disposal & replacement allowance				See Summary	
	SUBTOTAL					8,225,968
G20	SITE IMPROVEMENTS					
	Roadways and Parking Lots	.01	,			
	Bituminous concrete pavement - standard	286,400	sf			
	gravel base; 8" thick	22,143	cy	50.00	1,107,150	
	asphalt top; 1.5" thick	2,738	tns	200.00	547,600	
	asphalt binder; 2" thick Porous Pavement	3,658	tns	190.00	695,020	
	Choker course; 4" thick crushed stone	71,600 1,127	sf cv	75.00	84 595	
	Filter course; 8" thick gravel	1,127 2,221	cy cy	75.00 65.00	84,525 144,365	
	Reservoir course; 8" thick crushed stone	2,221	-	55.00	144,305	
	Porous pavement; 4" thick	1,807	cy tns	400.00	722,800	
	Geotextiles to paving	358,000	sf	1.50	537,000	
320000	CURBING	330,000		1.,00	55/,000	
	Vertical granite curb	19,000	lf	55.00	1,045,000	





CSI CODE		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	RK C.2.b				1	<u> </u>	<u> </u>	1
	320000	ROAD MARKINGS AND SIGNS						
		Parking spot	500	ea	85.00	42,500		
		Parking spot ADA premium	45	ea	250.00	11,250		
		Pavement markings/signage allowance	1	ls	100,000.00	100,000		
		SUBTOTAL					5,159,365	
	320000	PEDESTRIAN PAVING						
	J	Concrete sidewalks	115,000	sf				
		gravel base; 12" thick	5,324	cy	50.00	266,200		
		Broom finish concrete paving; 5" thick	115,000	sf	16.00	1,840,000		
		Concrete pads	1,500	sf				
		gravel base; 12" thick	104	cy	50.00	5,200		
		Broom finish concrete paving; 8" thick Porous concrete pavers; 20% of Plaza	1,500 17,000	sf sf	24.00	36,000		
		Open graded stone subbase AASHTO #2; 32" thick	2,101	cy	50.00	105,050		
		Open graded base AASHTO #57; 6" thick	394	cy	50.00	19,700		
		Open graded bedding course AASHTO #8; 2" thick	131	cy	65.00	8,515		
		Pavers	17,000	sf	28.00	476,000		
		Geotextiles on top, bottom and sides of subbase	3,778	sy	3.00	11,334		
		Concrete paving; 80% of Plaza gravel base; 12" thick	68,000 3,148	sf cv	50.00	157,400		
		Broom finish concrete paving; 5" thick	68,000	cy sf	18.00	1,224,000		
	320000	STAIRS AND RAMPS	00,000	V-	10.00	-,		
		Ramp/stairs premium	1	ls	250,000.00	250,000		
		SUBTOTAL					4,399,399	
		avenue na provincia de la companya d						
	320000	SITE IMPROVEMENTS						
	320000	SITE FURNISHINGS Bollards/bike racks/benches/flag poles etc.	1	ls	1,000,000.00	1,000,000		
		Zonaraoj pine ruenoj venencoj nag porco etc.	1	10	1,000,000.00	1,000,000		
		New restroom/tickets/concessions building	1,000	sf	700.00	700,000		
	320000	EXISTING STADIUM + TRACK ETR				No Costs Assum	ed	
		Grass fields; sod	360,000	sf				
		Varsity Baseball Diamond; C1	100,000	sf	6.00	600,000		
		Backstops/benches etc.	1	ea	90,000.00	90,000		
		Infield	1	ea	60,000.00	60,000		
		Varsity Softball Diamond; C2	55,000	sf	6.00	330,000		
		Backstops/benches etc.	1	ea	90,000.00	90,000		
		Infield	1	ea	30,000.00	30,000		
			_					
		Junior Varsity Baseball Diamond; C3 + Cricket	60,000	sf	6.00	360,000		
		Backstops/benches etc. Infield	1	ea ea	90,000.00 50,000.00	90,000 50,000		
			1	Cu	50,000.00	50,000		
		Little League Diamond; C4	40,000	sf	6.00	240,000		
		Backstops/benches etc.	1	ea	90,000.00	90,000		
		Infield	1	ea	30,000.00	30,000		
		Crumb football field; C5	60,000	sf	6.00	360,000		
		Worthen practice field; C6	45,000	sf	6.00	270,000		
			45,000	J.	0.30			
		Tennis courts + Basketball courts				ETR		
	320000	ATHLETIC EQUIPMENT		,	.0.			
	220000	Equipment allowance BLEACHERS AND SCOREROARDS	1	ls	180,000.00	180,000		
	320000	BLEACHERS AND SCOREBOARDS						





CSI	ons Cost Est			1	UNIT	EST'D	SUB	TOTAL
CODE		DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
SITEWO	ORK C.2.b	-	·		<u> </u>	<u></u>		
		Bleachers + pressbox	1,000	seat	900.00	900,000		
		Electronic scoreboard; wireless controls, multiboard	1	ea	75,000.00	75,000		
		Electronic scoreboard; softball	1	ea	45,000.00	45,000		
	320000	FENCING						
	0	Fencing allowance	1	ls	500,000.00	500,000		
		SUBTOTAL					6,090,000	
	320000	SITE WALLS						
		Retaining walls/site walls/seat walls	1	ls	750,000.00	750,000		
		SUBTOTAL					750,000	
		Landscaping						
	329900	LAWN AND SEED						
		Topsoil - imported 12" thick; swell 25%	15,741	cy	65.00	1,023,165		
		General Seeding	850,000	sf	0.50	425,000		
		Trees, Shrubs and Perennial planting area	1	ls	1,500,000.00	1,500,000		
		IRRIGATION						
		Irrigation area	360,000	sf	1.50	540,000		
		717 d 1		c		N TD		
		Wetlands reconstruction	4,714	sf	20.00	NR	00 ./-	
		SUBTOTAL					3,488,165	
	G30	CIVIL MECHANICAL UTILITIES						
	210000	FIRE PROTECTION						
		12" CLDI	4,000	lf	150.00	600,000		
		8" CLDI	200	lf	100.00	20,000		
		6" CLDI	100	lf	95.00	9,500		
		Fire department connection Gate valve; hydrants	1	ea ls	2,500.00 60,000.00	2,500 60,000		
	331000	CONNECTIONS	•	10	00,000.00	00,000		
	331000	Connect to existing water line; 12" live tap	2	ea	15,000.00	30,000		
	312000	EXCAVATION & BACKFILL						
		DI piping excavation/backfill (inside site)	4,300	lf	50.00	215,000		
		Pressure test & chlorinate	4,300	lf	7.50	32,250		
		Allowance for temporary water service	1	ea	25,000.00	25,000		
		Allowance for temporary support of existing utilities SUBTOTAL				NR	004.250	
		SUBTOTAL					994,250	
	333000	SANITARY SEWER						
		PVC sewer pipe	2,368	lf	60.00	142,080		
		Sewer manholes	7	ea	6,000.00	42,000		
		Connection to existing	2	loc	15,000.00	30,000		
		Grease trap - 6,000 gal. SUBTOTAL	2	ea	35,000.00	70,000	284,080	
		SUBTOTAL					204,000	
	334000	STORM DRAINAGE						
		Infiltration systems	11,500	sf	45.00	517,500		
		Hydrodynamic separators	6	ea	20,000.00	120,000		
		Storm systems; complete at parking; piping; CB + MH etc.	286,400	sf	10.00	2,864,000		
		Sodded Athletic fields		- C		T11 - 1 /C -11-		
		Drainage at field SUBTOTAL	360,000	sf	1.00	Included w/fields		
		SUBTOTAL					3,501,500	
	G40	ELECTRICAL UTILITIES						
	•	Concrete:						
		Primary duct bank 6-5" duct bank	900	lf	50.00	45,000		
		Secondary service 4000A - two services	200	lf	50.00	10,000		
		Generator duct bank	100	lf	40.00	4,000		
		PV 5000A secondary service (10) - 4"C	100	lf 16	60.00	6,000		
		Communications duct bank 6-4" Transformer/generator pad	750 6	lf	40.00	30,000 18,000		
		rransionner/generator pau	6	ea	3,000.00	10,000		





CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
SITEWORK C.	2.b					1	
	Site lighting pole bases	56	ea	500.00	28,000		
	Excavation and backfill:						
	Primary duct bank 2-5" duct bank	900	lf	25.00	22,500		
	Secondary service 4000A	200	lf	30.00	6,000		
	Storage building 400A service	40	lf	22.00	880		
	Generator duct bank	100	lf	30.00	3,000		
	PV 5000A secondary service (10) - 4"C	100	lf	45.00	4,500		
	EV conduits				See Below		
	Communications duct bank 4-4"	750	lf	25.00	18,750		
	Site lighting circuitry	5,200	lf	6.00	31,200		
	2-2" PVC to sports field lighting	1,200	lf	10.00	12,000		
	CCTV circuitry	1,200	lf	6.00	7,200		
	Scoreboard power & data, misc. sports field power, allow	1,000	lf	6.00	6,000		
	SUBTOTAL	2,000		0.50	3,000	253,030	
						00/-0-	
	Power		,		D 0		
	Site electrical 15 kVOLT- Transformers etc.	1	ls	2,500,000.00	By Owner		
	Utility co. back charges				Included above		
	Primary duct bank	900	lf	180.00	162,000		
	Electric manhole	6	ea	12,500.00	75,000		
	Transformers + 15kVolt switchgear by Owner				Included above		
	Secondary service 4000A	200	lf	1,400.00	280,000		
	Generator:						
	Generator service	100	lf	400.00	40,000		
	PV:						
	PV 5000A secondary service (10) - 4"C	400	lf	600.00	240,000		
	Communications						
	Connect to existing utility pole	1	ea	1,500.00	1,500		
	Communications duct bank	750	lf	150.00	112,500		
	Communication manhole	2	ea	12,500.00	25,000		
	Site Lighting						
	Allowance	360,000	sf	2.00	720,000		
	EV Stations						
	EV stations; single	20	loc	15,000.00	300,000		
	EV stations; EV ready; conduit only	75	loc	4,000.00	300,000		
	EV stations; EV ready; conduit + wiring	50	loc	7,000.00	350,000		
	Sports Fields	3-		.,	_3 ,		
	Sports field lighting, allow 1 baseball field; 1 softball field + rectangle field	2	loc	460,000.00	920,000		
	Fixture MUSCO				Included above		
	Sports field lighting circuitry	1,200	lf	12.00	Included above		
	Scoreboard power & data, misc. sports field power, allow	1	ls		Included above		
	Rough-in, allow	1	ls		Included above		
	Site Demolition	•		33,000.00			
	Site demolition work				Included w/ build	:	

TOTAL - SITE DEVELOPMENT \$36,671,757



Lexington High School Town of Lexington, MA

PSR Options Cost Estimate

town of Lexington, MA

07-Oct-24

440,816

GFA

		CONSTRUCT	TION COST SUMMA	ARY		
	BUILDIN	G SYSTEM	SUB-TOTAL	TOTAL	\$/SF	%
BUILDI	NG SUMI	MARY - OPTION C.5b				
A10	FOUNI	DATIONS				
	A1010	Standard Foundations	\$4,492,250			
	A1020	Special Foundations	\$6,055,455			
	A1030	Lowest Floor Construction	\$5,537,720	\$16,085,425	\$36.49	5.8%
A20	BASEN	IENT CONSTRUCTION				
	A2010	Basement Excavation	\$o			
	A2020	Basement Walls	\$ 0	\$0	\$0.00	0.0%
В10	SUPER	STRUCTURE				
	B1010	Upper Floor Construction	\$16,933,043			
	B1020	Roof Construction	\$9,366,156	\$26,299,199	\$59.66	9.5%
B20	EXTER	IOR CLOSURE				
	B2010	Exterior Walls	\$19,689,774			
	B2020	Windows	\$8,853,029			
	B2030	Exterior Doors	\$440,816	\$28,983,619	\$65.75	10.5%
В30	ROOFI	NG				
	B3010	Roof Coverings	\$7,855,541			
	B3020	Roof Openings	\$54,000	\$7,909,541	\$17.94	2.9%
C10	INTER	IOR CONSTRUCTION				
	C1010	Partitions	\$19,786,516			
	C1020	Interior Doors	\$5,399,528			
	C1030	Specialties/Millwork	\$6,680,093	\$31,866,137	\$72.29	11.6%
C20	STAIR	CASES				
	C2010	Stair Construction	\$1,217,250			
	C2020	Stair Finishes	\$360,000	\$1,577,250	\$3.58	0.6%
С30	INTER	IOR FINISHES				
	C3010	Wall Finishes	\$7,493,872			
	C3020	Floor Finishes	\$6,612,240			
	C3030	Ceiling Finishes	\$6,612,240	\$20,718,352	\$47.00	7.5%
D10	CONVE	EYING SYSTEMS				
	D1010	Elevator	\$1,207,200	\$1,207,200	\$2.74	0.4%



Lexington High School Town of Lexington, MA

PSR Options Cost Estimate

07-Oct-24

GFA

440,816

		CONSTRUCTIO	N COST SUMM	ARY		
	BUILDING	G SYSTEM	SUB-TOTAL	TOTAL	\$/SF	%
UILDIN	IG SUMN	MARY - OPTION C.5b				
D20	PLUME					
	D20	Plumbing	\$13,342,848	\$13,342,848	\$30.27	4.8%
D30	HVAC					
	D30	HVAC	\$62,423,440	\$62,423,440	\$141.61	22.6%
D40	FIRE P	ROTECTION				
	D40	Fire Protection	\$4,117,344	\$4,117,344	\$9.34	1.5%
D50	ELECT	RICAL				
	D5010	Complete System	\$50,206,180	\$50,206,180	\$113.89	18.2%
E10	EQUIP	MENT				
	E10	Equipment	\$5,111,385	\$5,111,385	\$11.60	1.9%
E20	FURNIS	SHINGS				
	E2010	Fixed Furnishings	\$5,696,552			
	E2020	Movable Furnishings	NIC	\$5,696,552	\$12.92	2.1%
F10	SPECIA	L CONSTRUCTION				
	F10	Special Construction	\$150,000	\$150,000	\$0.34	0.1%
F20	HAZMA	AT REMOVALS				
	F2010	Building Elements Demolition	\$o			
	F2020	Hazardous Components Abatement	\$o	\$0	\$0.00	0.0%
		CT COST (Trade Costs)		\$275,694,472	\$625.42	100.0%





CSI				UNIT	EST'D	SUB	TOTAL	l
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST	l

BUILDING BACKUP - OPTION C.5b

GROSS FLOOR AREA CALCULATION

 Level 1
 173,013

 Level 2
 115,000

 Level 3
 110,000

 Level 4
 42,803

TOTAL GROSS FLOOR AREA (GFA) 440,816 sf	
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A1010	STANDARD FOUNDATIONS				
	Strip Footings; 1 x 3				
	Formwork	5,702	sf	15.00	85,530
	Re-bar	37,633	lbs.	2.50	94,083
	Concrete material	333	cy	160.00	53,280
	Placing concrete	333	cy	120.00	39,960
	Perimeter foundation walls; 20" Thick x 3.5 ft H				
	Formwork	19,957	sf	21.00	419,097
	Re-bar	49,893	lbs.	2.50	124,733
	Concrete material	648	cy	160.00	103,680
	Placing concrete	648	cy	120.00	77,760
	Form shelf	2,851	lf	8.00	22,808
	Spread Footings; 9 x 9 x 2 (Three Story)	158	ea		
	Formwork	11,376	sf	18.00	204,768
	Re-bar	76,788	lbs.	2.50	191,970
	Concrete material	995	cy	160.00	159,200
	Placing concrete	995	cy	120.00	119,400
	Set anchor bolts grout plates	158	ea	250.00	39,500
	Spread Footings; 10 x 10 x 2 (Four Story)	275	ea		
	Formwork	22,000	sf	18.00	396,000
	Re-bar	165,000	lbs.	2.50	412,500
	Concrete material	2,139	cy	160.00	342,240
	Placing concrete	2,139	cy	120.00	256,680
	Set anchor bolts grout plates	275	ea	250.00	68,750
	<u>Piers</u>	433	ea		
	Formwork	5,196	sf	24.00	124,704
	Re-bar	58,455	lbs	2.50	146,138
	Concrete material	202	cy	160.00	32,320
	Placing concrete	202	cy	160.00	32,320
	Housekeeping pads	1	ls	30,000.00	30,000
70001	WATERPROOFING, DAMPPROOFING AND CAULKING				
	Damproofing @ foundation wall	11,404	sf	4.00	45,616
72100	THERMAL INSULATION				
	Rigid insulation to face of foundation wall; 4" R-20	11,404	sf	5.00	57,020
	Brick Shelf 4" insulation	2,851	lf	20.00	57,020
12000	EARTHWORK				
	Strip footings				
	Excavation	3,168	cy	14.00	44,352
	Reuse excess material on site	981	cy	15.00	14,715
	Backfill with select fill	2,187	cy	25.00	54,675
	Spread footings				
	Excavation	8,699	cy	14.00	121,786
	Reuse excess material on site	3,336	cy	15.00	50,040
	Backfill with select fill	5,363	cy	25.00	134,075
		0,0 0	•	ŭ	5., 70
	Miscellaneous				



	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
DING BA	CKUP - OPTION C.5b	I					
	Temporary dewatering for foundation work	1	ls	250,000.00	250,000		
	SUBTOTAL					4,492,250	
A1020	SPECIAL FOUNDATIONS						
	Rigid inclusions	173,013	sf	35.00	6,055,455		
	SUBTOTAL					6,055,455	
A1030	LOWEST FLOOR CONSTRUCTION						
033000	CONCRETE						
	Vapor barrier, 15mils	173,013	sf	1.25	216,266		
	Slab on grade	173,013	sf				
	WWF reinforcement	198,965	sf	1.85	368,085		
	Concrete - 5" thick	2,759	cy	170.00	469,030		
	Placing concrete	2,759	cy	65.00	179,335		
	Finishing and curing concrete	173,013	sf	3.00	519,039		
	Control joints - saw cut	173,013	sf	0.10	17,301		
	Miscellaneous						
	Equipment pads	1	ls	30,000.00	30,000		
	Loading dock	1	ls	50,000.00	50,000		
	Elevator pits	3	ea	40,000.00	120,000		
	Radon system				Excluded; NR		
072100	THERMAL INSULATION						
	Perimeter insulation, 4" thick R-20 - 6ft at perimeter	17,106	sf	5.00	85,530		
	Under slab insulation, 2" thick under slab	155,907	sf	3.00	467,721		
312000	EARTHWORK						
	Gravel base, 12"	6,408	cy	45.00	288,360		
	Structural fill	37,000	cy	55.00	2,035,000		
	Allowance for underslab drainage	173,013	sf	2.00	346,026		
	Compact existing sub-grade	173,013	sf	0.50	86,507		
	Underslab E&B for plumbing	173,013	sf	1.50	259,520		
	SUBTOTAL					5,537,720	
	TOTAL - FOUNDATIONS						\$16,085,4

A20 BASEMENT CONSTRUCTION

A2010 BASEMENT EXCAVATION

No Work in this section SUBTOTAL

A2020 BASEMENT WALLS

No Work in this section

SUBTOTAL

TOTAL - BASEMENT CONSTRUCTION

В10	SUPERSTRUCTURE				
	FLOOR CONSTRUCTION	14.6 3,214 \$6,550	lbs/sf tns \$/Ton	including canopies -	roof screens
033000	CONCRETE				
	WWF reinforcement	307,973	sf	1.85	569,750
	Concrete Fill to metal deck; lightweight, total thickness 6 1/4"	5,416	cy	190.00	1,029,040
	Place and finish concrete	267,803	sf	3.00	803,409
	Rebar to decks	80,341	lbs	2.00	160,682
051200	STRUCTURAL STEEL FRAMING				
	Structural steel framing; Complete; 15 lbs per SF	2,009	tns	5,000.00	10,045,000
	Steel premium for lateral system due to poor soils; 1 PSF	134	tns	5,000.00	670,000
	Moment connections	100	ea	750.00	75,000
	Shear studs	66,951	ea	3.50	234,329
	3" metal galvanized floor deck	267,803	sf	8.00	2,142,424



\$26,299,199



PSR Options Cost Estimate GFA 440,816

CSI CODE		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
BUILD	ING BAG	CKUP - OPTION C.5b					l	
		Expansion joints	1	ls	100,000.00	100,000		
	078100	FIREPROOFING/FIRESTOPPING						
		Fire proofing to columns and beams; 2 hr	267,803	sf	3.00	803,409		
		Intumescent paint $@$ architecturally exposed beams and columns - allow	1	ls	300,000.00	300,000		
		SUBTOTAL					16,933,043	
	B1020	ROOF CONSTRUCTION						
	033000	CONCRETE						
		$6\ensuremath{^{\circ}}$ Normal weight concrete deck at low roof and at mechanical equipment pads	35,000	sf	9.00	315,000		
	051200	STRUCTURAL STEEL FRAMING						
		Structural steel framing; Complete; 13 lbs per SF	1,125	tns	5,000.00	5,625,000		
		Structural steel framing; 2 lbs per SF premium at RTU's	35	tns	5,000.00	175,000		
		Steel premium for lateral system due to poor soils; 1 PSF	87	tns	5,000.00	435,000		
		Roof screens	80	tns	5,500.00	440,000		
		Decking						
		1 1/2" galvanized metal deck, typical	173,013	sf	7.00	1,211,091		
	078100	FIREPROOFING/FIRESTOPPING						
		Fire proofing to columns, beams and deck; 1 $\ensuremath{\mathrm{hr}}$ - includes In tumescent	173,013	sf	5.00	865,065		
		Intumescent paint $\ensuremath{\textit{@}}$ architecturally exposed beams and columns - allow	1	ls	300,000.00	300,000		
		SUBTOTAL					9,366,156	

B20	EXTERIOR CLOSURE	1			
B2010	EXTERIOR WALLS Exterior Wall Area		Total clo		
042000	MASONRY				
	Mockup	1	ls	100,000.00	100,000
	Brick veneer; 60% of Solid	73,216	sf	44.00	3,221,504
	Granite veneer base; 2%	2,441	sf	120.00	292,920
	Precast trim allowance	1	ls	1,200,000.00	1,200,000
	4" CMU wall at auditorium	9,000	sf	30.00	270,000
	8" Mineral wool at exterior closure (2 layers 4")	122,027	sf	7.50	915,203
	Miscellaneous flashings and sealants	122,027	sf	1.50	183,041
	Staging to exterior wall	122,027	sf	4.00	488,108
055000	MISC. METALS				
	Misc. metals at masonry including loose lintels (relieving angles included in steel tns) $$	73,216	sf	1.50	109,824
070001	WATERPROOFING, DAMPPROOFING AND CAULKING				
	Air barrier	122,027	sf	10.00	1,220,270
	Miscellaneous sealants to closure	122,027	sf	1.00	122,027
072100	THERMAL INSULATION				
	4" cellulose insulation in stud	122,027	sf	3.25	396,588
	Insulation at glazed openings	13,559	lf	6.00	81,354
076400	CLADDING				
	Composite metal panel, Alucobond or equal; 18%	21,965	sf	100.00	2,196,500
	Terracotta; 20%	24,405	sf	160.00	3,904,800
	Canopies; soffit + framing	4,000	sf	100.00	400,000
	12' high Acoustic Equipment Screen	16,000	sf	95.00	1,520,000
	EXPANSION JOINT COVERS				

TOTAL - SUPERSTRUCTURE





	D.FOODVEWO	OM:-		UNIT	EST'D	SUB	TOTAL
	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
DING BA	CKUP - OPTION C.5b						
	Thermal breaks	1	ls	50,000.00	50,000		
	Expansion joints	1	ls	100,000.00	100,000		
092900	GYPSUM BOARD ASSEMBLIES						
	Exterior wall;						
	6" Stud backup	122,027	sf	16.00	1,952,432		
	Gypsum Sheathing	122,027	sf	3.50	427,095		
	Drywall lining to interior face of stud backup	122,027	sf	4.00	488,108		
101400	SIGNAGE						
	Exterior signage - allowance	1	ls	50,000.00	50,000		
	SUBTOTAL					19,689,774	
Ranan	WINDOWS						
D2020	Exterior Wall Area	40,676	sf				
061000							
061000	ROUGH CARPENTRY	40 ==0	lf	40.00	405 500		
	Wood blocking at openings	13,559	11	10.00	135,590		
070001	WATERPROOFING, DAMPPROOFING AND CAULKING						
	Air barrier/flashing at windows	13,559	lf	10.00	135,590		
	Backer rod & double sealant	13,559	lf	11.00	149,149		
080001	METAL WINDOWS						
	Aluminum windows, triple glazed including interior and exterior trim per details $% \left(1\right) =\left(1\right) \left(1\right) $	20,338	sf	175.00	3,559,150		
	Curtainwall, triple glazed including allowance for interior and exterior trim details	20,338	sf	225.00	4,576,050		
	Horizontal aluminum fin sunshades @ 40% of windows, custom color	1,700	lf	175.00	297,500		
	Passive house premium				NR		
089000	LOUVERS						
	Louvers				N/A		
	SUBTOTAL					8,853,029	
B2030	EXTERIOR DOORS						
	Allowance for exterior doors	440,816	gsf	1.00	440,816		
	SUBTOTAL					440,816	
	TOTAL - EXTERIOR CLOSURE						\$28,98

Взо	ROOFING				
055000	MISCELLANOUS METALS				
	Terrace top rail/ladders/stairs	1	ls	80,000.00	80,000
061000	ROUGH CARPENTRY				
	Rough carpentry and blocking @ roof	173,013	sf	1.50	259,520
070002	ROOFING AND FLASHING	173,013	total area		
	PVC roof membrane system, white or gray, 1/2" coverboard, 10" polyiso insulation, vapor barrier	173,013	sf	33.00	5,709,429
	Canopy roofing	4,000	sf	28.00	112,000
	Plaza deck pavers system at terrace	14,322	sf	70.00	1,002,540
	Miscellaneous Roofing				
	Miscellaneous flashings/copings/walkway pads etc.	173,013	sf	4.00	692,052
	SUBTOTAL				
B3020	ROOF OPENINGS				
086300	ROOF SKYLIGHTS				
	Aluminum framed skylight (4loc)				None Assumed

3 ea

18,000.00

54,000

Smoke vents; 7'x7'



CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

BUILDING BACKUP - OPTION C.5b

SUBTOTAL 54,000

C10	INTERIOR CONSTRUCTION						
C1010	PARTITIONS						
40001	MASONRY						
	Allowance for masonry partitions	440,816	gsf	6.00	2,644,896		
61000	ROUGH CARPENTRY						
	Backer panels in electrical closets	1	ls	10,000.00	10,000		
	Wood blocking at interiors	440,816	gsf	0.50	220,408		
78400	FIREPROOFING/FIRESTOPPING						
	Fire stopping including slab edges and core	440,816	gsf	1.00	440,816		
70001	WATERPROOFING, DAMPPROOFING AND CAULKING						
	Miscellaneous sealants throughout building	440,816	gsf	1.25	551,020		
78150	EXPANSION JOINTS						
	Allowance for expansion joint covers	1	ls	50,000.00	50,000		
81110	INTERIOR GLAZING						
	Allowance for interior glazing	440,816	gsf	3.00	1,322,448		
92900	GYPSUM BOARD ASSEMBLIES						
	Allowance for GWB partitions	440,816	gsf	33.00	14,546,928		
	SUBTOTAL					19,786,516	
C1020	INTERIOR DOORS						
	Doors, frames, hardware; complete	440,816	gsf	8.00	3,526,528		
	Fire shutters	1	ls	150,000.00	150,000		
	Security doors	16	loc	25,000.00	400,000		
	Premium for electronic hardware	882	set	1,500.00	1,323,000		
	SUBTOTAL					5,399,528	
C1030	SPECIALTIES / MILLWORK						
55000	MISCELLANEOUS METALS						
	Miscellaneous metals throughout building	440,816	gsf	5.00	2,204,080		
61000	ROUGH CARPENTRY						
62000	INTERIOR ARCHITECTURAL WOODWORK						
02000	Interior millwork package	440,816	gsf	3.00	1,322,448		
		,-	0-	0	70 711-		
01100	VISUAL DISPLAY SURFACES						
	Markerboard and tackboard package	440,816	gsf	2.00	881,632		
01400	SIGNAGE						
·	Room identification, directional & safety signage, building directory	440,816	gsf	2.00	881,632		
	+ environmental graphics						
02800	TOILET ACCESSORIES						
	Toilet accessories/compartments	440,816	gsf	1.00	440,816		
04400	FIRE PROTECTION SPECIALTIES						
	Fire extinguisher cabinets	1	ls	65,852.71	65,853		
	AED cabinets	1	ls	2,000.00	2,000		
05000	LOCKERS						
	Student lockers	440,816	gsf	2.00	881,632		
	SUBTOTAL					6,680,093	



CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

BUILDING BACKUP - OPTION C.5b

C20	STAIRCASES						
C2010	STAIR CONSTRUCTION						
33000	CONCRETE						
	Concrete to stairs	18	flt	5,000.00	90,000		
055000	MISCELLANEOUS METALS						
	Egress stairs w/ stainless steel rails and handrails	15	flt	50,000.00	750,000		
	Projection room stair, 4' wide	1	flt	40,000.00	40,000		
	Learning stair						
	Stainless steel guardrail	65	lf	425.00	27,625		
	Stainless steel handrail	55	lf	175.00	9,625		
	Adjacent stairs; 5'-3" wide	2	flt	75,000.00	150,000		
	Learning stair framing						
	Framing at learning stair - premium	1	ls	150,000.00	150,000		
	SUBTOTAL					1,217,250	
C2020	STAIR FINISHES						
90005	RESILIENT FLOORS						
,	Stair finishes	18	flts	20,000.00	360,000		
	SUBTOTAL	10	1113	20,000.00	300,000	360,000	
	TOTAL - STAIRCASES						Ø1 === 0
	TOTAL - STAIRCASES						\$1,577,2
Сзо	INTERIOR FINISHES						
С3010	WALL FINISHES	<u>,</u>					
	Wall finishes complete package	440,816	gsf	17.00	7,493,872		
	SUBTOTAL	440,010	801	17.00	/, 1 93,0/=	7,493,872	
C3020	FLOOR FINISHES						
	Floor finishes complete package	440,816	gsf	15.00	6,612,240		
	SUBTOTAL					6,612,240	
C3030	CEILING FINISHES						
	Ceiling finishes complete package	440,816	gsf	15.00	6,612,240		
	SUBTOTAL					6,612,240	
	TOTAL - INTERIOR FINISHES						\$20,718,3
D10	CONVEYING SYSTEMS						
D1010	ELEVATOR						
55000	MISCELLANEOUS METALS						
	Pit ladder and miscellaneous metals	3	ea	900.00	2,700		
	Sill angles	3	ls	1,500.00	4,500		
42100	ELEVATOR						
	Electric traction elevator, 4 stop, 5,000lbs	3	ea	400,000.00	1,200,000		
	SUBTOTAL	3	ou.	400,000.00	1,200,000	1,207,200	
	TOTAL - CONVEYING SYSTEMS						\$1,207,20
D20	PLUMBING						
D20	PLUMBING, GENERALLY						
	Air source heat pump water heater (2) 500MBH	1	ls	1,000,000.00	1,000,000		
	Plumbing package complete			-0	40 0 40 0 40		
	SUBTOTAL	440,816	gsf	28.00	12,342,848	13,342,848	

TOTAL - PLUMBING

\$13,342,848



С	SI				UNIT	EST'D	SUB	TOTAL
cc	ODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

BUILDING BACKUP - OPTION C.5b

D30 HVAC

D30 HVAC, GENERALLY

 Geothermal Wells 800' well
 350
 wells
 65,000.00
 22,750,000

 HVAC System; Water Source Heat Pump
 440,816
 gsf
 90.00
 39,673,440

SUBTOTAL 62,423,440

TOTAL - HVAC \$62,423,440

D40 FIRE PROTECTION

D40 FIRE PROTECTION, GENERALLY

Fire Equipment

Fire pump with controller 750GPM, incl Jockey pump with controller 1 ea 150,000.00 150,000 Sprinkler system; complete 440,816 gsf 9.00 3,967,344

SUBTOTAL 4,117,344

TOTAL - FIRE PROTECTION \$4,117,344

D50 ELECTRICAL

D5010 ELECTRICAL SYSTEMS

Gear & Distribution

Normal power distribution system 4000A 277/480V main switchboard 185,000.00 ea 370,000 Panelboards/feeders 440,816 gsf 8.00 3,526,528 Emergency power Emergency Generator; 1250 kW Diesel ls 812,500.00 812,500 Emergency power feeders 440,816 gsf 3.00 1,322,448 Photovoltaic - 3500 kW PV system equipment; low roof top 31,738 sf 36.00 1,142,568 PV system equipment; roof top; High roof (with Structure) sf 60.00 4,760,700 79,345 PV system equipment; canopy 102,250 sf 60.00 6,135,000 **Battery Storage** ls 2,500,000 2,500,000

Equipment Wiring
Feeders + Electrical to equipment 440,816 gsf 10.00 4,408,160
SUBTOTAL

2,493

sf

200.00

498,600

25,476,504

7,934,688

D5020 LIGHTING & POWER

Lighting, Controls + Power 440,816 gsf 18.00 7,934,688

SUBTOTAL

D5030 COMMUNICATION & SECURITY SYSTEMS

Transparent + opaque vertical cladding BIPV

Telecommunications/PA + Clock 440,816 1,763,264 gsf 4.00 Performance lighting Theater AV ls 200,000.00 200,000 Stage lighting fixture package ls 250,000.00 250,000 Audio Visual Systems 440,816 gsf 4,187,752 9.50 Classroom speech + AV 225 rms 5,000.00 1,125,000 Specialty Communications Systems BDA system, antenna and annunciator 286,530 440,816 sf 0.65 Cell repeater/Distributed antenna system, not specified 440,816 sf440,816 1.00

 Emergency 2 way communication system at elevator lobbies + stairs
 1
 ls
 100,000.00
 100,000

 Fire Alarm
 440,816
 gsf
 4.00
 1,763,264

 Security System
 440,816
 gsf
 10.00
 4,408,160

SUBTOTAL 14,524,786

D5040 OTHER ELECTRICAL SYSTEMS

Common Work Results for Electrical Lightning prevention 440,816 gsf 0.30 132,245 Grounding gsf 440,816 176,326 0.40 Misc. demolition work 440,816 gsf 0.25 110,204





	1			UNIT	EST'D	SUB	TOTAL
	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
DING BA	CKUP - OPTION C.5b		1				
	Temp power and lights	440,816	gsf	1.20	528,979		
	Seismic restraints/Coordination/misc.	440,816	gsf	3.00	1,322,448		
	SUBTOTAL					2,270,202	
	TOTAL - ELECTRICAL						\$50,20
E10	EQUIPMENT						
E10	EQUIPMENT, GENERALLY						
112000	LOADING DOCK EQUIPMENT						
112000	Loading dock leveler(2), truck restraints (2) and bumpers	1	ls	50,000.00	50,000		
				0 -,	0-7		
110620	THEATRICAL EQUIPMENT						
	Allowance per Architect		,				
	Stage lighting and fixtures - equipment only	1	ls	358,000.00	358,000		
	Stage rigging, installed Stage curtains, installed	1	ls	275,000.00	275,000		
	Forestage Platforms, installed	1	ls ls	88,385.00 100,000.00	88,385 100,000		
	Orchestra Enclosure, installed	1	ls	175,000.00	175,000		
	Orchestra Pit Lift	1	ls	150,000.00	150,000		
	Auditorium AV Equipment	•	15	1,0,000.00	See Electrical		
113100	APPLIANCES						
0	Residential appliances - allowance	1	ls	60,000.00	60,000		
114000	FOOD SERVICE EQUIPMENT						
114000	Kitchen equipment	1	ls	2,500,000.00	2,500,000		
				_,0==,======	_,,,,,,,,		
115300	EDUCATIONAL EQUIPMENT						
	Science equipment;	1	ls	400,000.00	400,000		
	Kiln Allowance for miscellaneous equipment	1	ea ls	5,000.00	5,000		
			15	50,000	50,000		
116600	GYM EQUIPMENT						
	Gym Equipment	1	ls	500,000.00	500,000		
126000	SEATING						
	Auditorium seating	1,000	seat	400.00	400,000		
	SUBTOTAL					5,111,385	
	TOTAL - EQUIPMENT						\$5,1
E20	FURNISHINGS						
<u> </u>	EINED EUDINGWING						
E2010	FIXED FURNISHINGS WINDOW TREATMENT						
122100	Window shades at exterior glazing including blackout shades at art & science classrooms - allowance	40,676	sf	10.00	406,760		
123553	CASEWORK						
5500	Casework package	440,816	gsf	12.00	5,289,792		
	SUBTOTAL					5,696,552	
E2020	MOVABLE FURNISHINGS All movable furnishings to be provided and installed by owner SUBTOTAL					NIC	
	TOTAL - FURNISHINGS					1110	\$5,69
							.0,-,
F10	SPECIAL CONSTRUCTION						
F10	SPECIAL CONSTRUCTION						
- 10	Pre-engineered Greenhouse	1	ls	150,000.00	150,000		
	1 re-engineered Greenhouse		15	150,000.00	130,000		

TOTAL - SPECIAL CONSTRUCTION

\$150,000



exington High School 07-Oct-24

PSR Options Cost Estimate GFA 440,816

CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

BUILDING BACKUP - OPTION C.5b

F20 SELECTIVE BUILDING DEMOLITION

F2010 BUILDING ELEMENTS DEMOLITION

No items in this section SUBTOTAL

F2020 HAZARDOUS COMPONENTS ABATEMENT

See main summary for HazMat allowance

SUBTOTAL

See Summary

TOTAL - SELECTIVE BUILDING DEMOLITION

\$275,694,472





CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

SITEWORK C.5.b

\boldsymbol{G}	SITEWORK					
G10	SITE PREPARATION & DEMOLITION	2,015,000	sf			
311000	GENERAL CONDITIONS					
	Mobilizations/Temp Parking/Etc.	1	ls	500,000.00	500,000	
	6' high site construction fence - perimeter	7,500	lf	18.00	135,000	
311000	SITE DEMOLITION AND RELOCATIONS					
	Demolish existing site conditions	1	ls	900,000.00	900,000	
311000	UTILITY DEMOLITION					
	Demolish existing utility lines	1	ls	250,000.00	250,000	
	Utility Support/Ground Improvements	1	ls	1,500,000.00	1,500,000	
311000	VEGETATION & TOPSOIL MANAGEMENT					
	Strip + dispose topsoil (swell 25%)	23,264	cy	37.00	860,768	
	Street sweeping allowance during hauling	1	ls	50,000.00	50,000	
311000	CLEAR GRASSY KNOLL					
	Remove trees/vegetation	1	ls	10,000.00	10,000	
	Strip + dispose topsoil	1,600	cy	37.00	59,200	
	Rock removal; mechanical	1,600	cy	85.00	136,000	
312000	EROSION & SEDIMENT CONTROL					
	Silt Fence; installation and removal	7,500	lf	12.00	90,000	
	Erosion Control monitoring & maintenance	1	ls	80,000.00	80,000	
312000	SITE EARTHWORK					
	Site cut to design subgrade	0	cy			
	Cut	0	cy	20.00		
	Store cut onsite				NR	
	Process cut and amend with additional soils for reuse				NR	
	Imported fill	64,000	cy	40.00	2,560,000	
312000	SOIL DISPOSAL - conversion factor 1.7 to tons Load excess soils for disposal					
	Less than RCS-1 - clean non-regulated	1	ls		NR	
312000	ESTABLISHING GRADE					
	Sub grade establishment	2,015,000	sf	0.15	302,250	
	Fine grading throughout the site	2,015,000	sf	0.25	503,750	
	General rock removal	3,400	cy	85.00	289,000	
312000	HAZARDOUS MATERIALS					
	UST removal allowance				NR	
	Soil disposal & replacement allowance SUBTOTAL				See Summary	8,225,968
G20	SITE IMPROVEMENTS					
	Roadways and Parking Lots					
	Bituminous concrete pavement - standard	300,800	sf			
	gravel base; 8" thick	23,256	cy	50.00	1,162,800	
	asphalt top; 1.5" thick	2,876	tns	200.00	575,200	
	asphalt binder; 2" thick	3,842	tns	190.00	729,980	
	Porous Pavement	75,200	sf			
	Choker course; 4" thick crushed stone	1,184	cy	75.00	88,800	
	Filter course; 8" thick gravel	2,333	cy	65.00	151,645	
	Reservoir course; 8" thick crushed stone	2,333	cy	55.00	128,315	
	Porous pavement; 4" thick	1,898	tns	400.00	759,200	
320000	Geotextiles to paving CURBING	376,000	sf	1.50	564,000	
	Vertical granite curb	18,900	lf	55.00	1,039,500	





CSI CODE		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
L	ORK C.5.b		***					
5112110	320000	ROAD MARKINGS AND SIGNS						
		Parking spot	500	ea	85.00	42,500		
		Parking spot ADA premium	45	ea	250.00	11,250		
		Pavement markings/signage allowance	1	ls	100,000.00	100,000		
		SUBTOTAL					5,353,190	
	320000	PEDESTRIAN PAVING						
	J _0000	Concrete sidewalks	115,000	sf				
		gravel base; 12" thick	5,324	cy	50.00	266,200		
		Broom finish concrete paving; 5" thick	115,000	sf	16.00	1,840,000		
		Concrete pads	1,500	sf				
		gravel base; 12" thick	104	cy	50.00	5,200		
		Broom finish concrete paving; 8" thick	1,500	sf	24.00	36,000		
		Porous concrete pavers; 20% of Plaza	15,600	sf				
		Open graded stone subbase AASHTO #2; 32" thick	1,928	cy	50.00	96,400		
		Open graded base AASHTO #57; 6" thick Open graded bedding course AASHTO #8; 2" thick	361 121	cy	50.00 65.00	18,050 7,865		
		Pavers	15,600	cy sf	28.00	436,800		
			20,000	J1	20.00	4,00,000		
		Geotextiles on top, bottom and sides of subbase	3,467	sy	3.00	10,401		
		Concrete paving; 80% of Plaza	62,400	sf				
		gravel base; 12" thick	2,889	cy	50.00	144,450		
		Broom finish concrete paving; 5" thick	62,400	sf	18.00	1,123,200		
	320000	STAIRS AND RAMPS						
		Ramp/stairs premium	1	ls	250,000.00	250,000		
		SUBTOTAL					4,234,566	
	320000	SITE IMPROVEMENTS						
	320000	SITE FURNISHINGS						
		Bollards/bike racks/benches/flag poles etc.	1	ls	1,000,000.00	1,000,000		
		, , , , ,						
		New restroom/tickets/concessions building	1,000	sf	700.00	700,000		
	320000	EXISTING STADIUM + TRACK ETR				No Costs Assum	ed	
		Grass fields; sod	360,000	sf				
		Varsity Baseball Diamond; C1	100,000	sf	6.00	600,000		
		Backstops/benches etc.	100,000	ea	90,000.00	90,000		
		Infield	1	ea	60,000.00	60,000		
		Varsity Softball Diamond; C2	55,000	sf	6.00	330,000		
		Backstops/benches etc.	1	ea	90,000.00	90,000		
		Infield	1	ea	30,000.00	30,000		
		Lunion Vannita Basahall Diamas 3 Co. Caidast	<i>(</i>			0(
		Junior Varsity Baseball Diamond; C3 + Cricket Backstops/benches etc.	60,000	sf	6.00	360,000		
		Infield	1	ea ea	50,000.00	90,000 50,000		
		- -	-		30,000.00	,5,000		
		Little League Diamond; C4	40,000	sf	6.00	240,000		
		Backstops/benches etc.	1	ea	90,000.00	90,000		
		Infield	1	ea	30,000.00	30,000		
			_	-				
		Crumb football field; C5	60,000	sf	6.00	360,000		
		Worthen practice field; C6	45,000	sf	6.00	270,000		
		Tennis courts + Basketball courts				ETR		
	320000	ATHLETIC EQUIPMENT				_		
	00000	Equipment allowance	1	ls	180,000.00	180,000		
	320000	BLEACHERS AND SCOREBOARDS						





CSI	ons Cost Est			1	UNIT	EST'D	SUB	TOTAL
CODE		DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
SITEWO	ORK C.5.b							
		Bleachers + pressbox	1,000	seat	900.00	900,000		
		Electronic scoreboard; wireless controls, multiboard Electronic scoreboard; softball	1	ea ea	75,000.00 45,000.00	75,000 45,000		
		Electronic scoreboard, sortban	1	ca	45,000.00	45,000		
	320000	FENCING						
		Fencing allowance	1	ls	500,000.00	500,000		
		SUBTOTAL					6,090,000	
		CHTE MALL C						
	320000	SITE WALLS Retaining walls/site walls/seat walls	1	ls	750,000.00	750,000		
		SUBTOTAL	•	10	7,30,000.00	7,50,000	750,000	
		Landscaping						
	329900	LAWN AND SEED						
		Topsoil - imported 12" thick; swell 25%	15,741 850,000	cy sf	65.00	1,023,165		
		General Seeding Trees, Shrubs and Perennial planting area	050,000	ls	0.50	425,000 1,500,000		
		Courtyard	1	ls	150,000.00	150,000		
		IRRIGATION						
		Irrigation area	360,000	sf	2.00	720,000		
		Wetlands reconstruction				NR		
		SUBTOTAL					3,818,165	
	G30	CIVIL MECHANICAL UTILITIES						
	210000	FIRE PROTECTION						
		12" CLDI	4,000	lf	150.00	600,000		
		8" CLDI	200	lf	100.00	20,000		
		6" CLDI	100	lf	95.00	9,500		
		Fire department connection Gate valve; hydrants	1	ea ls	2,500.00 60,000.00	2,500 60,000		
	331000	CONNECTIONS	-	10	00,000.00	00,000		
	00	Connect to existing water line; 12" live tap	2	ea	15,000.00	30,000		
	312000	EXCAVATION & BACKFILL						
		DI piping excavation/backfill (inside site)	4,300	lf 16	50.00	215,000		
		Pressure test & chlorinate Allowance for temporary water service	4,300	lf ea	7.50 25,000.00	32,250 25,000		
		Allowance for temporary support of existing utilities	•	ca	25,000.00	25,000 NR		
		SUBTOTAL					994,250	
	333000	SANITARY SEWER				_		
		PVC sewer pipe	2,964	lf	60.00	177,840		
		Sewer manholes Connection to existing	7 2	ea loc	6,000.00 15,000.00	42,000 30,000		
		Grease trap - 6,000 gal.	2	ea	35,000.00	70,000		
		SUBTOTAL					319,840	
	334000	STORM DRAINAGE		.c	.= .	=1=		
		Infiltration systems Hydrodynamic separators	11,500 6	sf ea	45.00 20,000.00	517,500 120,000		
		Storm systems; complete at parking; piping; CB + MH etc.	300,800	sf	10.00	3,008,000		
		Sodded Athletic fields	3,			3,,,,,,,,		
		Drainage at field	360,000	sf	1.00	Included w/fields	3	
		SUBTOTAL					3,645,500	
	0.5	ELECEDICAL LEM PAPE						
	G40	ELECTRICAL UTILITIES Concrete:						
		Concrete: Primary duct bank 6-5" duct bank	900	lf	50.00	45,000		
		Secondary service 4000A - two services	200	lf	50.00	10,000		
		Generator duct bank	100	lf	40.00	4,000		
		PV 5000A secondary service (10) - 4"C	100	lf	60.00	6,000		
		Communications duct bank 6-4"	750	lf	40.00	30,000		





CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
SITEWOR	eK C.s.h				1		
	Transformer/generator pad	6	ea	3,000.00	18,000		
	Site lighting pole bases	56	ea	500.00	28,000		
	Excavation and backfill:	0		9	-,		
	Primary duct bank 2-5" duct bank	900	lf	25.00	22,500		
	Secondary service 4000A	200	lf	30.00	6,000		
	Storage building 400A service	40	lf	22.00	880		
	Generator duct bank	100	lf	30.00	3,000		
	PV 5000A secondary service (10) - 4"C	100	lf	45.00	4,500		
	EV conduits				See Below		
	Communications duct bank 4-4"	750	lf	25.00	18,750		
	Site lighting circuitry	5,200	lf	6.00	31,200		
	2-2" PVC to sports field lighting	1,200	lf	10.00	12,000		
	CCTV circuitry	1,200	lf	6.00	7,200		
	Scoreboard power & data, misc. sports field power, allow	1,000	lf	6.00	6,000		
	SUBTOTAL					253,030	
	Power						
	Site electrical 15 kVOLT- Transformers etc.	1	ls	2,500,000.00	By Owner		
	Utility co. back charges			_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Included above		
	Primary duct bank	900	lf	180.00	162,000		
	Electric manhole	6	ea	12,500.00	75,000		
	Transformers + 15kVolt switchgear by Owner			,0	Included above		
	Secondary service 4000A	200	lf	1,400.00	280,000		
	Generator:			•			
	Generator service	100	lf	400.00	40,000		
	PV:						
	PV 5000A secondary service (10) - 4"C	400	lf	600.00	240,000		
	Communications						
	Connect to existing utility pole	1	ea	1,500.00	1,500		
	Communications duct bank	750	lf	150.00	112,500		
	Communication manhole	2	ea	12,500.00	25,000		
	Site Lighting						
	Allowance	360,000	sf	2.00	720,000		
	EV Stations						
	EV stations; single	20	loc	15,000.00	300,000		
	EV stations; EV ready; conduit only	75	loc	4,000.00	300,000		
	EV stations; EV ready; conduit + wiring	50	loc	7,000.00	350,000		
	Sports Fields	_	1	./			
	Sports field lighting, allow 1 baseball field; 1 softball field + rectangle field	2	loc	460,000.00	920,000		
	Fixture MUSCO				Included above		
	Sports field lighting circuitry	1,200	lf	12.00	Included above		
	Scoreboard power & data, misc. sports field power, allow	1	ls	10,000.00	Included above		
	Rough-in, allow	1	ls	35,000.00	Included above		
	Site Demolition						
	Site demolition work				Included w/ building	-	
	SUBTOTAL					3,526,000	

TOTAL - SITE DEVELOPMENT \$37,210,509



Lexington High School Town of Lexington, MA

PSR Options Cost Estimate

Lown of Lexington, MA

07-Oct-24

GFA 440,816

		CONSTRUCT	TION COST SUMMA	ARY		
	BUILDIN	G SYSTEM	SUB-TOTAL	TOTAL	\$/SF	%
BUILDIN	NG SUMI	MARY - OPTION D.2				
A10	FOUNI	DATIONS				
	A1010	Standard Foundations	\$4,153,071			
	A1020	Special Foundations	\$5,474,035			
	A1030	Lowest Floor Construction	\$5,068,730	\$14,695,836	\$33.34	5.4%
A20	BASEN	IENT CONSTRUCTION				
	A2010	Basement Excavation	\$ 0			
	A2020	Basement Walls	\$ 0	\$0	\$0.00	0.0%
В10	SUPER	STRUCTURE				
	B1010	Upper Floor Construction	\$17,954,546			
	B1020	Roof Construction	\$8,581,812	\$26,536,358	\$60.20	9.7%
B20	EXTER	IOR CLOSURE				
	B2010	Exterior Walls	\$18,742,750			
	B2020	Windows	\$8,346,536			
	B2030	Exterior Doors	\$440,816	\$27,530,102	\$62.45	10.1%
Взо	ROOFI	NG				
	B3010	Roof Coverings	\$6,798,499			
	B3020	Roof Openings	\$54,000	\$6,852,499	\$15.55	2.5%
C10	INTER	IOR CONSTRUCTION				
	C1010	Partitions	\$19,786,516			
	C1020	Interior Doors	\$5,399,528			
	C1030	Specialties/Millwork	\$6,680,093	\$31,866,137	\$72.29	11.7%
C20	STAIR	CASES				
	C2010	Stair Construction	\$1,382,250			
	C2020	Stair Finishes	\$420,000	\$1,802,250	\$4.09	0.7%
С30	INTER	IOR FINISHES				
	C3010	Wall Finishes	\$7,493,872			
	C3020	Floor Finishes	\$6,612,240			
	C3030	Ceiling Finishes	\$6,612,240	\$20,718,352	\$47.00	7.6%
D10	CONVE	EYING SYSTEMS				
	D1010	Elevator	\$1,207,200	\$1,207,200	\$2.74	0.4%



Lexington High School Town of Lexington, MA

PSR Options Cost Estimate

07-Oct-24

GFA

440,816

		CONSTRUCTIO	N COST SUMM	ARY		
	BUILDING	G SYSTEM	SUB-TOTAL	TOTAL	\$/SF	%
BUILDIN	IG SUMN	MARY - OPTION D.2				
D20	PLUME					
	D20	Plumbing	\$13,342,848	\$13,342,848	\$30.27	4.9%
D30	HVAC					
	D30	HVAC	\$62,423,440	\$62,423,440	\$141.61	22.9%
D40	FIRE P	ROTECTION				
	D40	Fire Protection	\$4,117,344	\$4,117,344	\$9.34	1.5%
D50	ELECT	RICAL				
	D5010	Complete System	\$50,679,456	\$50,679,456	\$114.97	18.6%
E10	EQUIP	MENT				
	E10	Equipment	\$5,111,385	\$5,111,385	\$11.60	1.9%
	FURNIS	SHINGS				
	E2010	Fixed Furnishings	\$5,672,472			
	E2020	Movable Furnishings	NIC	\$5,672,472	\$12.87	2.1%
F10	SPECIA	AL CONSTRUCTION				
	F10	Special Construction	\$150,000	\$150,000	\$0.34	0.1%
F20	HAZMA	AT REMOVALS				
	F2010	Building Elements Demolition	\$o			
	F2020	Hazardous Components Abatement	\$ 0	\$0	\$0.00	0.0%
TOTAL STATE OF THE PARTY OF THE	I DINE			.	46.06	
IOIA	LL DIKE	CT COST (Trade Costs)		\$272,705,679	\$618.64	100.0%





CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

BUILDING BACKUP - OPTION D.2

GROSS FLOOR AREA CALCULATION

 Level 1
 156,401

 Level 2
 100,000

 Level 3
 92,000

 Level 4
 92,415

TOTAL GROSS FLOOR AREA (GFA)	440,816 sf

A10	FOUNDATIONS				
A1010	STANDARD FOUNDATIONS				
	Strip Footings; 1 x 3				
	Formwork	5,510	sf	15.00	82,650
	Re-bar	36,366	lbs.	2.50	90,915
	Concrete material	321	cy	160.00	51,360
	Placing concrete	321	cy	120.00	38,520
	Perimeter foundation walls; 20" Thick x 3.5 ft H				
	Formwork	19,285	sf	21.00	404,985
	Re-bar	48,213	lbs.	2.50	120,533
	Concrete material	626	cy	160.00	100,160
	Placing concrete	626	cy	120.00	75,120
	Form shelf	2,755	lf	8.00	22,040
	Spread Footings; 9 x 9 x 2 (Three Story)	161	ea		
	Formwork	11,592	sf	18.00	208,656
	Re-bar	78,246	lbs.	2.50	195,615
	Concrete material	1,014	cy	160.00	162,240
	Placing concrete	1,014	cy	120.00	121,680
	Set anchor bolts grout plates	161	ea	250.00	40,250
	Spread Footings; 10 x 10 x 2 (Four Story)	230	ea		
	Formwork	18,400	sf	18.00	331,200
	Re-bar	138,000	lbs.	2.50	345,000
	Concrete material	1,789	cy	160.00	286,240
	Placing concrete	1,789	cy	120.00	214,680
	Set anchor bolts grout plates	230	ea	250.00	57,500
	<u>Piers</u>	391	ea		
	Formwork	4,692	sf	24.00	112,608
	Re-bar	52,785	lbs	2.50	131,963
	Concrete material	182	cy	160.00	29,120
	Placing concrete	182	cy	160.00	29,120
	Housekeeping pads	1	ls	30,000.00	30,000
70001	WATERPROOFING, DAMPPROOFING AND CAULKING				
	Damproofing @ foundation wall	11,020	sf	4.00	44,080
72100	THERMAL INSULATION				
	Rigid insulation to face of foundation wall; 4" R-20	11,020	sf	5.00	55,100
	Brick Shelf 4" insulation	2,755	lf	20.00	55,100
12000	EARTHWORK				
	Strip footings				
	Excavation	3,061	cy	14.00	42,854
	Reuse excess material on site	947	cy	15.00	14,205
	Backfill with select fill	2,114	cy	25.00	52,850
	Spread footings				
	Excavation	7,793	cy	14.00	109,102
	Reuse excess material on site	2,985	cy	15.00	44,775
	Backfill with select fill	4,808	cy	25.00	120,200
			•	=	
	Miscellaneous				





				UNIT	EST'D	SUB	TOTAL
	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
DING BA	CKUP - OPTION D.2						
	Temporary dewatering for foundation work	1	ls	250,000.00	250,000		
	SUBTOTAL					4,153,071	
A1020	SPECIAL FOUNDATIONS						
	Rigid inclusions	156,401	sf	35.00	5,474,035		
	SUBTOTAL					5,474,035	
A1030	LOWEST FLOOR CONSTRUCTION						
033000	CONCRETE						
	Vapor barrier, 15mils	156,401	sf	1.25	195,501		
	Slab on grade	156,401	sf				
	WWF reinforcement	179,861	sf	1.85	332,743		
	Concrete - 5" thick	2,494	cy	170.00	423,980		
	Placing concrete	2,494	cy	65.00	162,110		
	Finishing and curing concrete	156,401	sf	3.00	469,203		
	Control joints - saw cut	156,401	sf	0.10	15,640		
	<u>Miscellaneous</u>						
	Equipment pads	1	ls	30,000.00	30,000		
	Loading dock	1	ls	50,000.00	50,000		
	Elevator pits	3	ea	40,000.00	120,000		
	Radon system				Excluded; NR		
072100	THERMAL INSULATION						
	Perimeter insulation, 4" thick R-20 - 6ft at perimeter	16,530	sf	5.00	82,650		
	Under slab insulation, 2" thick under slab	139,871	sf	3.00	419,613		
312000	EARTHWORK						
	Gravel base, 12"	5,793	cy	45.00	260,685		
	Structural fill	34,200	cy	55.00	1,881,000		
	Allowance for underslab drainage	156,401	sf	2.00	312,802		
	Compact existing sub-grade	156,401	sf	0.50	78,201		
	Underslab E&B for plumbing	156,401	sf	1.50	234,602		
	SUBTOTAL					5,068,730	

A20 BASEMENT CONSTRUCTION

A2010 BASEMENT EXCAVATION

No Work in this section SUBTOTAL

A2020 BASEMENT WALLS

No Work in this section $\,$

SUBTOTAL

TOTAL - BASEMENT CONSTRUCTION

B10	SUPERSTRUCTURE				
B1010	FLOOR CONSTRUCTION	14.7 3,230 \$6,552	lbs/sf tns \$/Ton	including canopies	- roof screens
033000	CONCRETE				
	WWF reinforcement	327,077	sf	1.85	605,092
	Concrete Fill to metal deck; lightweight, total thickness 6 1/4"	5,752	cy	190.00	1,092,880
	Place and finish concrete	284,415	sf	3.00	853,245
	Rebar to decks	85,325	lbs	2.00	170,650
051200	STRUCTURAL STEEL FRAMING				
	Structural steel framing; Complete; 15 lbs per SF	2,133	tns	5,000.00	10,665,000
	Steel premium for lateral system due to poor soils; 1 PSF	142	tns	5,000.00	710,000
	Moment connections	107	ea	750.00	80,250
	Shear studs	71,104	ea	3.50	248,864
	3" metal galvanized floor deck	284,415	sf	8.00	2,275,320



\$26,536,358



PSR Options Cost Estimate GFA 440,816

CSI CODE		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
BUILI	OING BAG	CKUP - OPTION D.2						
		Expansion joints	1	ls	100,000.00	100,000		
	078100	FIREPROOFING/FIRESTOPPING						
		Fire proofing to columns and beams; 2 hr	284,415	sf	3.00	853,245		
		In tumescent paint $@$ architecturally exposed beams and columns - allow	1	ls	300,000.00	300,000		
		SUBTOTAL					17,954,546	
	B1020	ROOF CONSTRUCTION						
	033000	CONCRETE						
		6" Normal weight concrete deck at low roof and at mechanical equipment pads	35,000	sf	9.00	315,000		
	051200	STRUCTURAL STEEL FRAMING						
		Structural steel framing; Complete; 13 lbs per SF	1,017	tns	5,000.00	5,085,000		
		Structural steel framing; 2 lbs per SF premium at RTU's	35	tns	5,000.00	175,000		
		Steel premium for lateral system due to poor soils; 1 PSF	78	tns	5,000.00	390,000		
		Roof screens	80	tns	5,500.00	440,000		
		Decking						
		1 1/2" galvanized metal deck, typical	156,401	sf	7.00	1,094,807		
	078100	FIREPROOFING/FIRESTOPPING						
		Fire proofing to columns, beams and deck; 1 $\ensuremath{\mathrm{hr}}$ - includes In tumescent	156,401	sf	5.00	782,005		
		In tumescent paint $\ensuremath{@}$ architecturally exposed beams and columns - allow	1	ls	300,000.00	300,000		
		SUBTOTAL					8,581,812	

B20	EXTERIOR CLOSURE				
B2010	EXTERIOR WALLS Exterior Wall Area			osure area area solid	
042000	MASONRY				
	Mockup	1	ls	100,000.00	100,000
	Brick veneer; 60% of Solid	68,882	sf	44.00	3,030,808
	Granite veneer base; 2%	2,296	sf	120.00	275,520
	Precast trim allowance	1	ls	1,200,000.00	1,200,000
	4" CMU wall at auditorium	9,000	sf	30.00	270,000
	8" Mineral wool at exterior closure (2 layers 4")	114,804	sf	7.50	861,030
	Miscellaneous flashings and sealants	114,804	sf	1.50	172,206
	Staging to exterior wall	114,804	sf	4.00	459,216
055000	MISC. METALS				
	Misc. metals at masonry including loose lintels (relieving angles included in steel tns)	68,882	sf	1.50	103,323
070001	WATERPROOFING, DAMPPROOFING AND CAULKING				
	Air barrier	114,804	sf	10.00	1,148,040
	Miscellaneous sealants to closure	114,804	sf	1.00	114,804
072100	THERMAL INSULATION				
	4" cellulose insulation in stud	114,804	sf	3.25	373,113
	Insulation at glazed openings	12,756	lf	6.00	76,536
076400	CLADDING				
	Composite metal panel, Alucobond or equal; 18%	20,665	sf	100.00	2,066,500
	Terracotta; 20%	22,961	sf	160.00	3,673,760
	Canopies; soffit + framing	4,000	sf	100.00	400,000
	12' high Acoustic Equipment Screen	16,000	sf	95.00	1,520,000
	EXPANSION JOINT COVERS				

TOTAL - SUPERSTRUCTURE





	t Estimate					GFA	44
	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NING DA	ACKUP - OPTION D.2	4	0.111	0051	0001	101111	
JING DA	Thermal breaks	1	ls	50,000.00	50,000		
	Expansion joints	1	ls	100,000.00	100,000		
	•						
092900	GYPSUM BOARD ASSEMBLIES						
	Exterior wall; 6" Stud backup	114,804	sf	16.00	1,836,864		
	Gypsum Sheathing	114,804	sf	3.50	401,814		
	Drywall lining to interior face of stud backup	114,804	sf	4.00	459,216		
		., .		·	1037		
	Passive house premium				NR		
101400	SIGNAGE						
	Exterior signage - allowance	1	ls	50,000.00	50,000		
	SUBTOTAL					18,742,750	
B2020	o WINDOWS						
	Exterior Wall Area	38,268	sf				
061000	ROUGH CARPENTRY						
	Wood blocking at openings	12,756	lf	10.00	127,560		
070001	WATERPROOFING, DAMPPROOFING AND CAULKING						
	Air barrier/flashing at windows	12,756	lf	10.00	127,560		
	Backer rod & double sealant	12,756	lf	11.00	140,316		
080001	METAL WINDOWS						
	Aluminum windows, triple glazed including interior and exterior trim per details $% \left(1\right) =\left(1\right) \left(1\right) $	19,134	sf	175.00	3,348,450		
	Curtainwall, triple glazed including allowance for interior and exterior trim details	19,134	sf	225.00	4,305,150		
	Horizontal aluminum fin sunshades $@$ 40% of windows, custom color	1,700	lf	175.00	297,500		
	Passive house premium				NR		
089000	LOUVERS						
	Louvers				N/A		
	SUBTOTAL					8,346,536	
B2030	EXTERIOR DOORS						
	Allowance for exterior doors	440,816	gsf	1.00	440,816		
	SUBTOTAL					440,816	
	TOTAL - EXTERIOR CLOSURE						\$27,530,

Взо	ROOFING]				
055000	MISCELLANOUS METALS					
	Terrace top rail/ladders/stairs	1	ls	80,000.00	80,000	
061000	ROUGH CARPENTRY					
	Rough carpentry and blocking @ roof	156,401	sf	1.50	234,602	
070002	ROOFING AND FLASHING	156,401	total area			
	PVC roof membrane system, white or gray, 1/2" coverboard, 10" polyiso insulation, vapor barrier	156,401	sf	33.00	5,161,233	
	Canopy roofing	4,000	sf	28.00	112,000	
	Plaza deck pavers system at terrace	8,358	sf	70.00	585,060	
	Miscellaneous Roofing					
	Miscellaneous flashings/copings/walkway pads etc.	156,401	sf	4.00	625,604	
	SUBTOTAL					6,798,499
D	DOOF OPENINGS					

B3020 ROOF OPENINGS

086300 ROOF SKYLIGHTS



\$6,852,499



PSR Options Cost Estimate GFA 440,816

CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

BUILDING BACKUP - OPTION D.2

TOTAL - ROOFING

Aluminum framed skylight (4loc)

None Assumed

Smoke vents; 7'x7' **3** ea 18,000.00 54,000

SUBTOTAL 54,000

	PARTITIONS					
40001	MASONRY Allowance for masonry partitions	440,816	gsf	6.00	2,644,896	
		440,610	gsı	0.00	2,044,090	
061000	ROUGH CARPENTRY		la.	40,000,00	40.000	
	Backer panels in electrical closets Wood blocking at interiors	1 440,816	ls gsf	10,000.00 0.50	10,000 220,408	
	wood blocking at interiors	440,810	gsı	0.50	220,400	
078400	FIREPROOFING/FIRESTOPPING		•			
	Fire stopping including slab edges and core	440,816	gsf	1.00	440,816	
70001	WATERPROOFING, DAMPPROOFING AND CAULKING					
	Miscellaneous sealants throughout building	440,816	gsf	1.25	551,020	
078150	EXPANSION JOINTS					
	Allowance for expansion joint covers	1	ls	50,000.00	50,000	
081110	INTERIOR GLAZING					
	Allowance for interior glazing	440,816	gsf	3.00	1,322,448	
92900	GYPSUM BOARD ASSEMBLIES					
,92900	Allowance for GWB partitions	440,816	gsf	33.00	14,546,928	
	-	11-7-	0-	00.1	1001-75	10 =96 =1
	SUBTOTAL					19,786,51
C1020	INTERIOR DOORS					
	Doors, frames, hardware; complete	440,816	gsf	8.00	3,526,528	
	Fire shutters	1	ls	150,000.00	150,000	
	Security doors	16	loc	25,000.00	400,000	
	Premium for electronic hardware	882	set	1,500.00	1,323,000	
	SUBTOTAL					5,399,52
C1030	SPECIALTIES / MILLWORK					
055000	MISCELLANEOUS METALS					
	Miscellaneous metals throughout building	440,816	gsf	5.00	2,204,080	
061000	ROUGH CARPENTRY					
062000	INTERIOR ARCHITECTURAL WOODWORK					
	Interior millwork package	440,816	gsf	3.00	1,322,448	
		/	-	ŭ	/ * *	
01100	VISUAL DISPLAY SURFACES					
	Markerboard and tackboard package	440,816	gsf	2.00	881,632	
01400	SIGNAGE					
.01400	Room identification, directional & safety signage, building directory	440,816	gsf	2.00	881,632	
	+ environmental graphics	440,010	80-	2.00	001,032	
02800	TOILET ACCESSORIES					
	Toilet accessories/compartments	440,816	gsf	1.00	440,816	
	· -	112,000	<i>G</i>		112722	
04400	FIRE PROTECTION SPECIALTIES		,			
	Fire extinguisher cabinets AED cabinets	1	ls ls	65,852.71	65,853	
	ALLO CADITICES	1	15	2,000.00	2,000	
05000	LOCKERS					



CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

BUILDING BACKUP - OPTION D.2

SUBTOTAL 6,680,093

	TOTAL - INTERIOR CONSTRUCTION						\$31,866,137
C20	STAIRCASES						
C2010	STAIR CONSTRUCTION						
033000	CONCRETE						
	Concrete to stairs	2	21	flt	5,000.00	105,000	
055000	MISCELLANEOUS METALS						

18 flt

50,000.00

900,000

Projection room stair, 4' wide flt 40,000.00 40,000 Learning stair Stainless steel guardrail 65 lf 425.00 27,625 Stainless steel handrail 55 lf 175.00 9,625 Adjacent stairs; 5'-3" wide 2 flt 75,000.00 150,000 Learning stair framing

Framing at learning stair - premium **1** ls 150,000.00 150,000 SUBTOTAL 1,382,250

C2020 STAIR FINISHES

Egress stairs w/ stainless steel rails and handrails

090005 RESILIENT FLOORS

Stair finishes **21** flts 20,000.00 420,000

SUBTOTAL 420,000

TOTAL - STAIRCASES \$1,802,250

C30 INTERIOR FINISHES

C3010 WALL FINISHES

 Wall finishes complete package
 440,816
 gsf
 17.00
 7,493,872

 SUBTOTAL
 7,493,872

C3020 FLOOR FINISHES

Floor finishes complete package **440,816** gsf 15.00 6,612,240

SUBTOTAL 6,612,240

C3030 CEILING FINISHES

Ceiling finishes complete package **440,816** gsf 15.00 6,612,240

SUBTOTAL 6,612,240

TOTAL - INTERIOR FINISHES \$20,718,352

Dio CONVEYING SYSTEMS

D1010 ELEVATOR

055000 MISCELLANEOUS METALS

 Pit ladder and miscellaneous metals
 3
 ea
 900.00
 2,700

 Sill angles
 3
 ls
 1,500.00
 4,500

142100 ELEVATOR

Electric traction elevator, 4 stop, 5,000lbs **3** ea 400,000.00 1,200,000

SUBTOTAL 1,207,200

TOTAL - CONVEYING SYSTEMS \$1,207,200

D20 PLUMBING

 D20
 PLUMBING, GENERALLY

 Air source heat pump water heater (2) 500MBH
 1
 ls
 1,000,000.00
 1,000,000

 Plumbing package complete
 440,816
 gsf
 28.00
 12,342,848

SUBTOTAL 13,342,848



CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

BUILDING BACKUP - OPTION D.2

TOTAL - PLUMBING \$13,342,848

D30 HVAC

D30 HVAC, GENERALLY

 Geothermal Wells 800' well
 350
 wells
 65,000.00
 22,750,000

 HVAC System; Water Source Heat Pump
 440,816
 gsf
 90.00
 39,673,440

SUBTOTAL 62,423,440

TOTAL - HVAC \$62,423,440

D40 FIRE PROTECTION

D40 FIRE PROTECTION, GENERALLY

Fire Equipment

Fire pump with controller 750GPM, incl Jockey pump with controller 1 ea 150,000.00 150,000 Sprinkler system; complete 440,816 gsf 9.00 3,967,344

SUBTOTAL 4,117,344

TOTAL - FIRE PROTECTION \$4,117,344

ELECTRICAL D50 D5010 ELECTRICAL SYSTEMS **Gear & Distribution** Normal power distribution system 4000A 277/480V main switchboard 370,000 185,000.00 2 ea Panelboards/feeders 440,816 gsf 8.00 3,526,528 Emergency power Emergency Generator; 1250 kW Diesel ls 812,500.00 812,500 Emergency power feeders 440,816 gsf 3.00 1,322,448 Photovoltaic - 3500 kW PV system equipment; low roof top 29,609 sf 36.00 1,065,924 PV system equipment; roof top; High roof (with Structure) 74,022 sf60.00 4,441,320 PV system equipment; canopy sf 60.00 91,715 5,502,900 Battery Storage ls 2,500,000 2,500,000 Transparent + opaque vertical cladding BIPV 10,000 sf 200.00 2,000,000 **Equipment Wiring** Feeders + Electrical to equipment 440,816 gsf 10.00 4,408,160 SUBTOTAL 25,949,780 D5020 LIGHTING & POWER Lighting, Controls + Power 7,934,688 440,816 gsf 18.00 SUBTOTAL 7,934,688 D5030 COMMUNICATION & SECURITY SYSTEMS Telecommunications/PA + Clock 440,816 gsf 4.00 1,763,264 Performance lighting Theater AV ls 200,000.00 200,000 Stage lighting fixture package ls 250,000.00 250,000 1 Audio Visual Systems 440,816 gsf 4,187,752 9.50 Classroom speech + AV 225 rms 5,000.00 1,125,000 Specialty Communications Systems BDA system, antenna and annunciator 440,816 sf 0.65 286,530 Cell repeater/Distributed antenna system, not specified 440,816 sf1.00 440,816 Emergency 2 way communication system at elevator lobbies +stairs ls 100,000.00 100,000 Fire Alarm 440,816 gsf 4.00 1,763,264 Security System 440,816 gsf 10.00 4,408,160 SUBTOTAL 14,524,786

D5040 OTHER ELECTRICAL SYSTEMS

Common Work Results for Electrical

Lightning prevention

440,816

gsf

0.30

132,245



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
BUILD	ING BACKUP - OPTION D.2						
	Grounding	440,816	gsf	0.40	176,326		
	Misc. demolition work	440,816	gsf	0.25	110,204		
	Temp power and lights	440,816	gsf	1.20	528,979		
	Seismic restraints/Coordination/misc.	440,816	gsf	3.00	1,322,448		
	SUBTOTAL					2,270,202	
Ī	TOTAL - ELECTRICAL						\$50,679,456

E10	EQUIPMENT					
E10	EQUIPMENT, GENERALLY					
112000	LOADING DOCK EQUIPMENT					
	Loading dock leveler(2), truck restraints (2) and bumpers	1	ls	50,000.00	50,000	
110620	THEATRICAL EQUIPMENT					
	Allowance per Architect					
	Stage lighting and fixtures - equipment only	1	ls	358,000.00	358,000	
	Stage rigging, installed	1	ls	275,000.00	275,000	
	Stage curtains, installed	1	ls	88,385.00	88,385	
	Forestage Platforms, installed	1	ls	100,000.00	100,000	
	Orchestra Enclosure, installed	1	ls	175,000.00	175,000	
	Orchestra Pit Lift	1	ls	150,000.00	150,000	
	Auditorium AV Equipment				See Electrical	
113100	APPLIANCES					
	Residential appliances - allowance	1	ls	60,000.00	60,000	
114000	FOOD SERVICE EQUIPMENT					
	Kitchen equipment	1	ls	2,500,000.00	2,500,000	
115300	EDUCATIONAL EQUIPMENT					
	Science equipment;	1	ls	400,000.00	400,000	
	Kiln	1	ea	5,000.00	5,000	
	Allowance for miscellaneous equipment	1	ls	50,000	50,000	
116600	GYM EQUIPMENT					
	Gym Equipment	1	ls	500,000.00	500,000	
126000	SEATING					
	Auditorium seating	1,000	seat	400.00	400,000	
	SUBTOTAL					5,111,385

TOTAL - EQUIPMENT	\$5,111,385	

E20	FURNISHINGS						
E2010	FIXED FURNISHINGS						
122100	WINDOW TREATMENT						
	Window shades at exterior glazing including blackout shades at art $\&$ science classrooms - allowance	38,268	sf	10.00	382,680		
123553	CASEWORK						
	Casework package	440,816	gsf	12.00	5,289,792		
	SUBTOTAL					5,672,472	
E2020	MOVABLE FURNISHINGS All movable furnishings to be provided and installed by owner						
	SUBTOTAL					NIC	
	TOTAL - FURNISHINGS						\$5,672,472

F10	SPECIAL CONSTRUCTION	

F10 SPECIAL CONSTRUCTION

 Pre-engineered Greenhouse
 1
 ls
 150,000.00
 150,000

 SUBTOTAL
 150,000
 150,000
 150,000



exington High School 07-Oct-24

BUILDING BACKUP - OPTION D.2

TOTAL - SPECIAL CONSTRUCTION

\$150,000

440,816

GFA

F20 SELECTIVE BUILDING DEMOLITION

F2010 BUILDING ELEMENTS DEMOLITION

No items in this section SUBTOTAL

F2020 HAZARDOUS COMPONENTS ABATEMENT

See main summary for HazMat allowance

See Summary

UBTOTAL

TOTAL - SELECTIVE BUILDING DEMOLITION

SUBTOTAL \$272,705,679





CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

SITEWORK D.2

G	SITEWORK					
G10	SITE PREPARATION & DEMOLITION	2,015,000	sf			
311000	GENERAL CONDITIONS					
	Mobilizations/Temp Parking/Etc.	1	ls	500,000.00	500,000	
	6' high site construction fence - perimeter	7,500	lf	18.00	135,000	
311000	SITE DEMOLITION AND RELOCATIONS					
	Demolish existing site conditions	1	ls	900,000.00	900,000	
311000	UTILITY DEMOLITION					
	Demolish existing utility lines	1	ls	250,000.00	250,000	
	Utility Support/Ground Improvements	1	ls	1,500,000.00	1,500,000	
311000	VEGETATION & TOPSOIL MANAGEMENT					
	Strip + dispose topsoil (swell 25%)	23,264	cy	37.00	860,768	
	Street sweeping allowance during hauling	1	ls	50,000.00	50,000	
311000	CLEAR GRASSY KNOLL					
	Remove trees/vegetation	1	ls	10,000.00	10,000	
	Strip + dispose topsoil	1,600	cy	37.00	59,200	
	Rock removal; mechanical	1,600	cy	85.00	136,000	
312000	EROSION & SEDIMENT CONTROL		10			
	Silt Fence; installation and removal Erosion Control monitoring & maintenance	7,500	lf ls	12.00 80,000.00	90,000 80,000	
		1	15	80,000.00	80,000	
312000	SITE EARTHWORK	_				
	Site cut to design subgrade Cut	0	cy	00.00		
	Store cut onsite	О	cy	20.00	NR	
	Process cut and amend with additional soils for reuse				NR NR	
	Imported fill	4,100	cy	40.00	164,000	
312000	SOIL DISPOSAL - conversion factor 1.7 to tons					
	Locathon BCS 1. clean pan regulated		le.		NR	
	Less than RCS-1 - clean non-regulated	1	ls		NK	
312000	ESTABLISHING GRADE		- C			
	Sub grade establishment Fine grading throughout the site	2,015,000 2,015,000	sf sf	0.15 0.25	302,250 503,750	
	General rock removal	3,400	cy	85.00	289,000	
		3,400	Cy	05.00	209,000	
312000	HAZARDOUS MATERIALS UST removal allowance				NR	
	Soil disposal & replacement allowance				See Summary	
	SUBTOTAL					5,829,968
G20	SITE IMPROVEMENTS					
	Roadways and Parking Lots					
	Bituminous concrete pavement - standard	288,000	sf			
	gravel base; 8" thick	22,267	cy	50.00	1,113,350	
	asphalt top; 1.5" thick	2,753	tns	200.00	550,600	
	asphalt binder; 2" thick	3,678	tns	190.00	698,820	
	Porous Pavement Chalten assures at thick are should store	72,000	sf		0	
	Choker course; 4" thick crushed stone	1,133	cy	75.00	84,975	
	Filter course; 8" thick gravel	2,233	cy	65.00	145,145	
	Reservoir course; 8" thick crushed stone	2,233	cy	55.00	122,815	
	Porous pavement; 4" thick Geotextiles to paving	1,817 360,000	tns sf	400.00 1.50	726,800 540,000	
320000	CURBING	500,000	31	1.50	₀₄ 0,000	
	Vertical granite curb	15,500	lf	55.00	852,500	





CSI CODE		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
SITEWO	RK D.2		,		I			
	320000	ROAD MARKINGS AND SIGNS						
		Parking spot	500	ea	85.00	42,500		
		Parking spot ADA premium	45	ea	250.00	11,250		
		Pavement markings/signage allowance	1	ls	100,000.00	100,000		
		SUBTOTAL					4,988,755	
		NED FORTH AND ANY OF						
	320000	PEDESTRIAN PAVING Concrete sidewalks	115,000	sf				
		gravel base; 12" thick	5,324	cy	50.00	266,200		
		Broom finish concrete paving; 5" thick	115,000	sf	16.00	1,840,000		
		Concrete pads	1,500	sf	10.00	1,040,000		
		gravel base; 12" thick	104	cy	50.00	5,200		
		Broom finish concrete paving; 8" thick	1,500	sf	24.00	36,000		
		Porous concrete pavers; 20% of Plaza	13,000	sf		0 /		
		Open graded stone subbase AASHTO #2; 32" thick	1,607	cy	50.00	80,350		
		Open graded base AASHTO #57; 6" thick	301	cy	50.00	15,050		
		Open graded bedding course AASHTO #8; 2" thick	101	cy	65.00	6,565		
		Pavers	13,000	sf	28.00	364,000		
		Geotextiles on top, bottom and sides of subbase	2,889	sy	3.00	8,667		
		Concrete paving; 80% of Plaza	52,000	sf				
		gravel base; 12" thick	2,407	cy	50.00	120,350		
		Broom finish concrete paving; 5" thick	52,000	sf	18.00	936,000		
	320000	STAIRS AND RAMPS						
		Ramp/stairs premium	1	ls	250,000.00	250,000		
		SUBTOTAL					3,928,382	
	320000	SITE IMPROVEMENTS						
	320000	SITE FURNISHINGS						
	320000	Bollards/bike racks/benches/flag poles etc.	1	ls	1,000,000.00	1,000,000		
		bollards) blice racks) beliefies) has poles etc.	1	10	1,000,000.00	1,000,000		
		New restroom/tickets/concessions building	1,000	sf	700.00	700,000		
	320000	EXISTING STADIUM + TRACK ETR				No Costs Assum	ed	
		Grass fields; sod	360,000	sf				
		Varsity Baseball Diamond; C1	100,000	sf	6.00	600,000		
		Backstops/benches etc.	1	ea	90,000.00	90,000		
		Infield	1	ea	60,000.00	60,000		
		Wards 0.0k ll Diama 1.0			-			
		Varsity Softball Diamond; C2	55,000	sf	6.00	330,000		
		Backstops/benches etc.	1	ea	90,000.00	90,000		
		Infield	1	ea	30,000.00	30,000		
		Junior Varsity Baseball Diamond; C3 + Cricket	60,000	sf	6.00	360,000		
		Backstops/benches etc.	1	ea	90,000.00	90,000		
		Infield	1	ea	50,000.00	50,000		
		Little League Diamond; C4	40,000	sf	6.00	240,000		
		Backstops/benches etc.	1	ea	90,000.00	90,000		
		Infield	1	ea	30,000.00	30,000		
		Crumb football field; C5	60,000	sf	6.00	360,000		
		Worthen practice field; C6	45,000	sf	6.00	270,000		
		<u> </u>	70,000		0.00	_, 5,000		
		Tennis courts + Basketball courts				ETR		
	000000	ATHI ETIC EQUIDMENT						
	320000	ATHLETIC EQUIPMENT		1	190 000 5-	100 00-		
	320000	Equipment allowance BLEACHERS AND SCOREBOARDS	1	ls	180,000.00	180,000		
	J=0000	DILIACITERO AND OCOREDOARDO						



CSI					UNIT	EST'D	SUB	TOTAL
CODE		DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
SITEWOR	RK D.2							
		Bleachers + pressbox	1,000	seat	900.00	900,000		
		Electronic scoreboard; wireless controls, multiboard	1	ea	75,000.00	75,000		
		Electronic scoreboard; softball	1	ea	45,000.00	45,000		
	320000	FENCING						
J	20000	Fencing allowance	1	ls	500,000.00	500,000		
		SUBTOTAL	•	15	500,000.00	300,000	6,090,000	
							-,-,-,	
3	320000	SITE WALLS						
		Retaining walls/site walls/seat walls	1	ls	750,000.00	750,000		
		SUBTOTAL					750,000	
		Landscaping						
	329900	LAWN AND SEED						
		Topsoil - imported 12" thick; swell 25%	15,741	cy	65.00	1,023,165		
		General Seeding	850,000	sf	0.50	425,000		
		Trees, Shrubs and Perennial planting area IRRIGATION	1	ls	1,500,000.00	1,500,000		
			260 000	of	0.00	500.000		
		Irrigation area	360,000	sf	2.00	720,000		
		Wetlands reconstruction				NR		
						NK	0.669.46=	
		SUBTOTAL					3,668,165	
	G30	CIVIL MECHANICAL UTILITIES						
2	210000	FIRE PROTECTION						
		12" CLDI	4,000	lf	150.00	600,000		
		8" CLDI	200	lf	100.00	20,000		
		6" CLDI	100	lf	95.00	9,500		
		Fire department connection	1	ea	2,500.00	2,500		
		Gate valve; hydrants	1	ls	60,000.00	60,000		
3	331000	CONNECTIONS			45.000.00	22.222		
		Connect to existing water line; 12" live tap	2	ea	15,000.00	30,000		
3	312000	EXCAVATION & BACKFILL DI piping excavation/backfill (inside site)	4,300	lf	50.00	215,000		
		Pressure test & chlorinate	4,300	lf	7.50	32,250		
		Allowance for temporary water service	1,0	ea	25,000.00	25,000		
		Allowance for temporary support of existing utilities				NR		
		SUBTOTAL					994,250	
3	333000	SANITARY SEWER						
		PVC sewer pipe	1,850	lf	60.00	111,000		
		Sewer manholes	7	ea	6,000.00	42,000		
		Connection to existing Grease trap - 6,000 gal.	2	loc	15,000.00	30,000		
		SUBTOTAL	2	ea	35,000.00	70,000	253,000	
		SOBIOTIE.					255,000	
4	334000	STORM DRAINAGE						
	,0 ,	Infiltration systems	11,500	sf	45.00	517,500		
		Hydrodynamic separators	6	ea	20,000.00	120,000		
		Storm systems; complete at parking; piping; CB + MH etc.	288,000	sf	10.00	2,880,000		
		Sodded Athletic fields						
		Drainage at field	360,000	sf	1.00	Included w/fields	S	
		SUBTOTAL					3,517,500	
	C	ELECTRICAL IVELLIFIC						
	G40	ELECTRICAL UTILITIES Congretor						
		Concrete: Primary dust bank 6. "" dust bank	200	1£	=0.0-	45.005		
		Primary duct bank 6-5" duct bank Secondary service 4000A - two services	900 200	lf lf	50.00 50.00	45,000 10,000		
		Generator duct bank	100	lf	40.00	4,000		
		PV 5000A secondary service (10) - 4"C	100	lf	60.00	6,000		
		Communications duct bank 6-4"	750	lf	40.00	30,000		
		Transformer/generator pad	6	ea	3,000.00	18,000		





CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
SITEWORK D.:	2						
	Site lighting pole bases	56	ea	500.00	28,000		
	Excavation and backfill:						
	Primary duct bank 2-5" duct bank	900	lf	25.00	22,500		
	Secondary service 4000A	200	lf	30.00	6,000		
	Storage building 400A service	40	lf	22.00	880		
	Generator duct bank	100	lf	30.00	3,000		
	PV 5000A secondary service (10) - 4"C	100	lf	45.00	4,500		
	EV conduits				See Below		
	Communications duct bank 4-4"	750	lf	25.00	18,750		
	Site lighting circuitry	5,200	lf	6.00	31,200		
	2-2" PVC to sports field lighting	1,200	lf	10.00	12,000		
	CCTV circuitry	1,200	lf	6.00	7,200		
	Scoreboard power & data, misc. sports field power, allow	1,000	lf	6.00	6,000		
	SUBTOTAL	,			,	253,030	
	Power						
	Site electrical 15 kVOLT- Transformers etc.	1	ls	2,500,000.00	By Owner		
	Utility co. back charges	•		_,,	Included above		
	Primary duct bank	900	lf	180.00	162,000		
	Electric manhole	-					
		6	ea	12,500.00	75,000 Included above		
	Transformers + 15kVolt switchgear by Owner	20-	1¢	1 100			
	Secondary service 4000A	200	lf	1,400.00	280,000		
	Generator:	40-	1¢	400	10.005		
	Generator service	100	lf	400.00	40,000		
	PV:		1£	605	0.40.0		
	PV 5000A secondary service (10) - 4"C	400	lf	600.00	240,000		
	Communications Communication will be a least to the control of the						
	Connect to existing utility pole	1	ea	1,500.00	1,500		
	Communications duct bank	750	lf	150.00	112,500		
	Communication manhole	2	ea	12,500.00	25,000		
	Site Lighting		_				
	Allowance	360,000	sf	2.00	720,000		
	EV Stations						
	EV stations; single	20	loc	15,000.00	300,000		
	EV stations; EV ready; conduit only	75	loc	4,000.00	300,000		
	EV stations; EV ready; conduit + wiring	50	loc	7,000.00	350,000		
	Sports Fields						
	Sports field lighting, allow 1 baseball field; 1 softball field + rectangle field	2	loc	460,000.00	920,000		
	Fixture MUSCO				Included above		
	Sports field lighting circuitry	1,200	lf	12.00	Included above		
	Scoreboard power & data, misc. sports field power, allow	1	ls	10,000.00	Included above		
	Rough-in, allow	1	ls	35,000.00	Included above		
	Site Demolition						
	Site demolition work				Included w/ build	ing	
	SUBTOTAL					3,526,000	

TOTAL - SITE DEVELOPMENT \$33,799,050



CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

F.1 - NEW FIELDHOUSE - OPTION 1

GROSS FLOOR AREA CALCULATION

Level 1 36,000

	TOTAL GROSS FLOOR AREA (GFA)				36,000 sj	·
A10	FOUNDATIONS					
A1010	STANDARD FOUNDATIONS	_				
11010	Strip Footings: 1 x 3					
	Formwork	1,532	sf	15.00	22,980	
	Re-bar	10,111	lbs.	2.50	25,278	
	Concrete material	60	cy	160.00	9,600	
	Placing concrete	60	cy	120.00	7,200	
	Perimeter foundation walls; 20" Thick x 3.5 ft H	00	cy	120.00	7,200	
	Formwork	5,362	sf	21.00	112,602	
	Re-bar	13,405	lbs.	2.50	33,513	
	Concrete material	174	cy	160.00	27,840	
	Placing concrete	174	cy	120.00	20,880	
	Form shelf	766	lf	8.00	6,128	
	Spread Footings; 9 x 9 x 2	90	ea		-,	
	Formwork	6,480	sf	18.00	116,640	
	Re-bar	43,740	lbs.	2.50	109,350	
	Concrete material	567	cy	160.00	90,720	
	Placing concrete	567	cy	120.00	68,040	
	Set anchor bolts grout plates	90	ea	250.00	22,500	
	Piers	90	ea		==,0	
	Formwork	1,080	sf	24.00	25,920	
	Re-bar	12,150	lbs	2.50	30,375	
	Concrete material	42	cy	160.00	6,720	
	Placing concrete	42	cy	160.00	6,720	
70001	WATERPROOFING, DAMPPROOFING AND CAULKING					
	Damproofing @ foundation wall	3,064	sf	4.00	12,256	
72100	THERMAL INSULATION					
	Rigid insulation to face of foundation wall	3,064	sf	3.00	9,192	
	Brick Shelf 4" insulation	766	lf	20.00	15,320	
2000	EARTHWORK					
	Strip footings					
	Excavation	851	cy	14.00	11,914	
	Reuse excess material on site	234	cy	15.00	3,510	
	Backfill with select fill	617	cy	25.00	15,425	
	Spread footings					
	Excavation	1,613	cy	14.00	22,582	
	Reuse excess material on site	609	cy	15.00	9,135	
	Backfill with select fill	1,004	cy	25.00	25,100	
	Miscellaneous					
	Foundation drain	766	lf	30.00	22,980	
	SUBTOTAL					890,420
11020	SPECIAL FOUNDATIONS					
	Rigid inclusions	36,000	sf	35.00	1,260,000	
	SUBTOTAL	- /			•	1,260,000
A1030	LOWEST FLOOR CONSTRUCTION CONCRETE					
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Vapor barrier, 15mils	36,000	sf	1.95	45,000	
	Vapor parrier, 15mils Slab on grade	36,000 36,000	sf	1.25	45,000	
	WWF reinforcement	41,400	sf	1.85	76,590	
	Concrete - 5" thick	41,400		170.00	97,580	

\$2,830,485



PSR Options Cost Estimate GFA 36,000

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
F.1 - NEW FI	ELDHOUSE - OPTION 1	•				'	
	Placing concrete	574	cy	65.00	37,310		
	Finishing and curing concrete	36,000	sf	3.00	108,000		
	Control joints - saw cut	36,000	sf	0.10	3,600		
072100	THERMAL INSULATION						
	Under slab insulation, 2" thick under slab	36,000	sf	3.00	108,000		
312000	O EARTHWORK						
	Gravel base, 12"	1,333	cy	45.00	59,985		
	Allowance for underslab drainage	36,000	sf	2.00	72,000		
	Compact existing sub-grade	36,000	sf	0.50	18,000		
	Underslab E&B for plumbing	36,000	sf	1.50	54,000		
	SUBTOTAL					680,065	

A20 BASEMENT CONSTRUCTION

TOTAL - FOUNDATIONS

A2010 BASEMENT EXCAVATION

No Work in this section

SUBTOTAL

A2020 BASEMENT WALLS

No Work in this section

SUBTOTAL

TOTAL - BASEMENT CONSTRUCTION

B10 SUPERSTRUCTURE

B1010 FLOOR CONSTRUCTION

SUBTOTAL -

B1020 ROOF CONSTRUCTION

051200 STRUCTURAL STEEL FRAMING

Structural steel framing; Complete; 13 lbs per SF **234** tns 6,500.00 1,521,000

Decking

3" galvanized metal deck, acoustic **36,000** sf 12.00 432,000

078100 FIREPROOFING/FIRESTOPPING

Fireproofing to columns, beams and deck; 1 hr - includes 36,000 sf 5.00 NR

Intumescent

SUBTOTAL 1,953,000

TOTAL - SUPERSTRUCTURE \$1,953,000

B20 EXTERIOR CLOSURE

B2010 EXTERIOR WALLS 26,810 Total closure area

Exterior Wall Area 21,448 sf total area solid

042000 MASONRY

Brick veneer; 60% of Solid 12,869 sf566,236 44.00 8" Mineral wool at exterior closure (2 layers 4") sf 21,448 160,860 7.50 Miscellaneous flashings and sealants 21,448 sf 32,172 1.50 Staging to exterior wall 21,448 sf 4.00 85,792

 $o55000 \quad \textit{MISC. METALS}$

Misc. metals at masonry including loose lintels (relieving angles 12,869 sf 1.50 19,304 included in steel tns)





otions Cos	Listinate			TIMITY	row's	GFA	36
	DESCRIPTION	QTY	UNIT	UNIT	EST'D COST	SUB TOTAL	TOTAL
IEW FIE	LDHOUSE - OPTION 1		•			•	
070001	WATERPROOFING, DAMPPROOFING AND CAULKING						
	Air barrier	21,448	sf	10.00	214,480		
	Miscellaneous sealants to closure	21,448	sf	1.00	21,448		
072100	THERMAL INSULATION						
0/2100	4" Cellulose insulation in stud	01 449	sf	9.95	60.706		
	Insulation at glazed openings	21,448 1,787	lf	3.25 6.00	69,706 10,722		
		1,/0/	11	0.00	10,/22		
076400	CLADDING						
	Composite metal panel, Alucobond or equal; 40%	8,579	sf	100.00	857,900		
092900	GYPSUM BOARD ASSEMBLIES						
	Exterior wall;						
	6" Stud backup	21,448	sf	16.00	343,168		
	Gypsum Sheathing	21,448	sf	3.50	75,068		
	Drywall lining to interior face of stud backup; IRGWB	21,448	sf	6.00	128,688		
101400	SIGNAGE						
	Exterior signage - allowance	1	ls	10,000.00	10,000		
	SUBTOTAL					2,595,544	
_							
B2020	o WINDOWS	5,362	sf				
	Exterior Wall Area	3,302	51				
061000	ROUGH CARPENTRY		10				
	Wood blocking at openings	1,787	lf	10.00	17,870		
070001	WATERPROOFING, DAMPPROOFING AND CAULKING						
	Air barrier/flashing at windows	1,787	lf	10.00	17,870		
	Backer rod & double sealant	1,787	lf	11.00	19,657		
080001	METAL WINDOWS						
	Aluminum windows, triple glazed including interior and exterior trim per details $% \left(1\right) =\left(1\right) \left(1\right) $	5,362	sf	175.00	938,350		
	Passive house premium				NR		
089000	LOUVERS						
	Louvers				N/A		
	SUBTOTAL					993,747	
B2030	D EXTERIOR DOORS						
	Allowance for exterior doors	36,000	gsf	1.00	36,000		
	SUBTOTAL	= -			= *	36,000	
	TOTAL - EXTERIOR CLOSURE						\$3,625,
1							
Взо	ROOFING						
061000	ROUGH CARPENTRY						
	Rough carpentry and blocking @ roof	36,000	sf	1.50	54,000		
070002	ROOFING AND FLASHING	36,000	total area	a			
	PVC roof membrane system, white or gray, 1/2" coverboard, 10" polyiso insulation, vapor barrier	36,000	sf	33.00	1,188,000		
	Miscellaneous Roofing Miscellaneous flashings/copings/walkway pads etc.	36,000	sf	4.00	144,000		
	SUBTOTAL	3 . ,		1	10	1,386,000	
B3020	O ROOF OPENINGS					·	
5-20	SUBTOTAL					-	
							4. 00
	TOTAL - ROOFING						\$1,386,0





CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

F.1 - NEW FIELDHOUSE - OPTION 1

C10	INTERIOR CONSTRUCTION						
C1010	PARTITIONS						
040001	MASONRY						
	Allowance for masonry partitions	4,508	sf	35.00	157,780		
061000	ROUGH CARPENTRY						
	Backer panels in electrical closets	1	ls	10,000.00	10,000		
	Wood blocking at interiors	36,000	gsf	0.50	18,000		
070001	WATERPROOFING, DAMPPROOFING AND CAULKING						
	Miscellaneous sealants throughout building	36,000	gsf	1.00	36,000		
	SUBTOTAL					221,780	
C1020	INTERIOR DOORS						
	Doors, frames, hardware; complete	10	lvs	3,500.00	35,000		
	SUBTOTAL					35,000	
C1030	SPECIALTIES / MILLWORK						
055000	MISCELLANEOUS METALS						
	Miscellaneous metals throughout building	36,000	gsf	3.00	108,000		
101400	SIGNAGE						
	Room identification, directional & safety signage, building directory + environmental graphics	36,000	gsf	2.00	72,000		
102800	TOILET ACCESSORIES						
	Toilet accessories/compartments	2	rms	1,500.00	3,000		
104400	FIRE PROTECTION SPECIALTIES						
	Fire extinguisher cabinets	1	ls	8,021.86	8,022		
	AED cabinets	1	ls	2,000.00	2,000		
105000	LOCKERS						
	Student lockers	36,000	gsf	1.50	54,000		
	SUBTOTAL					247,022	
	TOTAL - INTERIOR CONSTRUCTION						\$503,802

C20	STAIRCASES
C20	STAIRCASES

C2010 STAIR CONSTRUCTION

SUBTOTAL

C2020 STAIR FINISHES

SUBTOTAL

TOTAL - STAIRCASES

Сзо	INTERIOR FINISHES					
C3010	WALL FINISHES					
	Wall finishes complete package SUBTOTAL	36,000	gsf	3.00	108,000	108,000
C3020	FLOOR FINISHES					
	Rubber flooring	26,700	sf	18.00	480,600	
	Floor finishes; track	7,500	sf	30.00	225,000	
	SUBTOTAL					705,600
C3030	CEILING FINISHES					

\$324,000



PSR Options Cost Estimate GFA 36,000

TOTAL CODE DESCRIPTION QTY UNIT COST TOTAL

F.1 - NEW FIELDHOUSE - OPTION 1

Cap over rooms sf30.00 126,720 4,224 Ceiling finishes; paint exposed structure 36,000 gsf 3.00 108,000

SUBTOTAL 234,720

TOTAL - INTERIOR FINISHES \$1,048,320

CONVEYING SYSTEMS D10

D1010 ELEVATOR

D20

SUBTOTAL

PLUMBING

TOTAL - CONVEYING SYSTEMS

PLUMBING, GENERALLY D20

Plumbing package complete

SUBTOTAL 360,000

36,000

TOTAL - PLUMBING \$360,000

10.00

360,000

gsf

D30 HVAC

D30 HVAC, GENERALLY

> HVAC System 1,800,000 36,000 gsf 50.00

SUBTOTAL 1,800,000

TOTAL - HVAC \$1,800,000

D40 FIRE PROTECTION

D40 FIRE PROTECTION, GENERALLY

Fire Equipment

Sprinkler system; complete

SUBTOTAL

36,000 gsf 9.00 324,000

324,000

D50 ELECTRICAL

TOTAL - FIRE PROTECTION

D5010 ELECTRICAL SYSTEMS

Gear & Distribution

Normal power distribution system

Panelboards/feeders 36,000 gsf 6.00 216,000

Equipment Wiring

Feeders + Electrical to equipment 36,000 gsf 7.00 252,000 SUBTOTAL

D5020 LIGHTING & POWER

Lighting, Controls + Power 36,000 gsf 12.00 432,000

SUBTOTAL 432,000

D5030 COMMUNICATION & SECURITY SYSTEMS

Telecommunications/PA + Clock 36,000 gsf 144,000 4.00 Fire Alarm 36,000 gsf 3.00 108,000

Security System 36,000 gsf 10.00 360,000 SUBTOTAL 612,000

D5040 OTHER ELECTRICAL SYSTEMS

Common Work Results for Electrical

Lightning prevention 36,000 gsf 0.30 10,800 Grounding 36,000 gsf 0.40 14,400 Misc. demolition work 36,000 $\operatorname{\mathsf{gsf}}$ 9,000 0.25 Temp power and lights 36,000 gsf 43,200 1.20

468,000

PSR Options Cost Estimate

07-Oct-24

CODE DESCRIPTION UNIT COST COST

F.1 - NEW FIELDHOUSE - OPTION 1

Seismic restraints/Coordination/misc.

gsf 36,000 SUBTOTAL 113,400

TOTAL - ELECTRICAL \$1,625,400

36,000

E10 **EQUIPMENT**

EQUIPMENT, GENERALLY **E10**

> AV Equipment ls 100,000.00 100,000

116600 GYM EQUIPMENT

> Gym Equipment ls 500,000.00 500,000

SEATING 126000

> Retractable bleachers **750** seat 250.00 187,500

SUBTOTAL 787,500

> TOTAL - EQUIPMENT \$787,500

1.00

E20 FURNISHINGS

E2010 FIXED FURNISHINGS

WINDOW TREATMENT

Window shades at exterior glazing; electric 5,362 sf30.00 160,860

SUBTOTAL 160,860

E2020 MOVABLE FURNISHINGS

All movable furnishings to be provided and installed by owner

SUBTOTAL NIC

TOTAL - FURNISHINGS \$160,860

SPECIAL CONSTRUCTION F10

F10 SPECIAL CONSTRUCTION

SUBTOTAL

TOTAL - SPECIAL CONSTRUCTION

SELECTIVE BUILDING DEMOLITION

F2010 BUILDING ELEMENTS DEMOLITION

No items in this section ${\bf SUBTOTAL}$

F2020 HAZARDOUS COMPONENTS ABATEMENT

See main summary for HazMat allowance See Summary

TOTAL - SELECTIVE BUILDING DEMOLITION

SUBTOTAL \$16,404,658

GFA

36,000



CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

F.2 - NEW FIELDHOUSE OPTION 2

GROSS FLOOR AREA CALCULATION

Level 1 72,000

	TOTAL GROSS FLOOR AREA (GFA)				72,000 sj	f
				_		
A10	FOUNDATIONS					
A1010	STANDARD FOUNDATIONS					
11010	Strip Footings; 1 x 3					
	Formwork	2,200	sf	15.00	33,000	
	Re-bar	14,520	lbs.	2.50	36,300	
	Concrete material	86	cy	160.00	13,760	
	Placing concrete	86	cy	120.00	10,320	
	Perimeter foundation walls; 20" Thick x 3.5 ft H		•			
	Formwork	7,700	sf	21.00	161,700	
	Re-bar	19,250	lbs.	2.50	48,125	
	Concrete material	250	cy	160.00	40,000	
	Placing concrete	250	cy	120.00	30,000	
	Form shelf	1,100	lf	8.00	8,800	
	Spread Footings; 9 x 9 x 2	180	ea			
	Formwork	12,960	sf	18.00	233,280	
	Re-bar	87,480	lbs.	2.50	218,700	
	Concrete material	1,134	cy	160.00	181,440	
	Placing concrete	1,134	cy	120.00	136,080	
	Set anchor bolts grout plates	180	ea	250.00	45,000	
	<u>Piers</u>	180	ea			
	Formwork	2,160	sf	24.00	51,840	
	Re-bar	24,300	lbs	2.50	60,750	
	Concrete material	84	cy	160.00	13,440	
	Placing concrete	84	cy	160.00	13,440	
70001	WATERPROOFING, DAMPPROOFING AND CAULKING					
	Damproofing @ foundation wall	4,400	sf	4.00	17,600	
72100	THERMAL INSULATION					
	Rigid insulation to face of foundation wall	4,400	sf	3.00	13,200	
	Brick Shelf 4" insulation	1,100	lf	20.00	22,000	
12000	EARTHWORK					
	Strip footings					
	Excavation	1,222	cy	14.00	17,108	
	Reuse excess material on site	336	cy	15.00	5,040	
	Backfill with select fill	886	cy	25.00	22,150	
	Spread footings					
	Excavation	3,227	cy	14.00	45,178	
	Reuse excess material on site	1,218	cy	15.00	18,270	
	Backfill with select fill	2,009	cy	25.00	50,225	
	Miscellaneous		-			
	Foundation drain	1,100	lf	30.00	33,000	
	SUBTOTAL					1,579,746
A1020	SPECIAL FOUNDATIONS					
-	Rigid inclusions	72,000	sf	35.00	2,520,000	
	SUBTOTAL				•	2,520,000
	LOWEST FLOOR CONSTRUCTION CONCRETE					
	Vapor barrier, 15mils	72,000	sf	1.25	90,000	
	Slab on grade	72,000	sf		,,,,,,,,	
	WWF reinforcement	82,800	sf	1.85	153,180	
	Concrete - 5" thick	1,148	cy	170.00	195,160	

\$5,459,921



PSR Options Cost Estimate GFA 72,000

CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
F.2 - NEW FI	ELDHOUSE OPTION 2						
	Placing concrete	1,148	cy	65.00	74,620		
	Finishing and curing concrete	72,000	sf	3.00	216,000		
	Control joints - saw cut	72,000	sf	0.10	7,200		
072100	THERMAL INSULATION						
	Under slab insulation, 2" thick under slab	72,000	sf	3.00	216,000		
312000	EARTHWORK						
	Gravel base, 12"	2,667	cy	45.00	120,015		
	Allowance for underslab drainage	72,000	sf	2.00	144,000		
	Compact existing sub-grade	72,000	sf	0.50	36,000		
	Underslab E&B for plumbing	72,000	sf	1.50	108,000		
	SUBTOTAL					1,360,175	

A20 BASEMENT CONSTRUCTION

TOTAL - FOUNDATIONS

A2010 BASEMENT EXCAVATION

No Work in this section SUBTOTAL

A2020 BASEMENT WALLS

No Work in this section SUBTOTAL

TOTAL - BASEMENT CONSTRUCTION

B10 SUPERSTRUCTURE

B1010 FLOOR CONSTRUCTION

SUBTOTAL -

B1020 ROOF CONSTRUCTION

051200 STRUCTURAL STEEL FRAMING

Decking

3" galvanized metal deck, acoustic **72,000** sf 12.00 864,000

078100 FIREPROOFING/FIRESTOPPING

Fireproofing to columns, beams and deck; 1 hr - includes 72,000 sf 5.00 NR

Intumescent

SUBTOTAL 3,906,000

TOTAL - SUPERSTRUCTURE \$3,906,000

B20 EXTERIOR CLOSURE

B2010 EXTERIOR WALLS 38,500 Total closure area

Exterior Wall Area 30,800 sf total area solid

042000 MASONRY

Brick veneer; 60% of Solid 18,480 sf 813,120 44.00 8" Mineral wool at exterior closure (2 layers 4") sf 30,800 231,000 7.50 Miscellaneous flashings and sealants 30,800 sf 46,200 1.50 Staging to exterior wall 30,800 sf 4.00 123,200

055000 MISC. METALS

Misc. metals at masonry including loose lintels (relieving angles 18,480 sf 1.50 27,720

included in steel tns)





	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
		ŲII	UNII	0031	0031	TOTAL	
	ELDHOUSE OPTION 2						
070001	WATERPROOFING, DAMPPROOFING AND CAULKING	_			_		
	Air barrier	30,800	sf	10.00	308,000		
	Miscellaneous sealants to closure	30,800	sf	1.00	30,800		
072100	THERMAL INSULATION						
	4" Cellulose insulation in stud	30,800	sf	3.25	100,100		
	Insulation at glazed openings	2,567	lf	6.00	15,402		
o=(.oo							
076400	CLADDING Composite metal panel, Alucobond or equal; 40%	12,320	sf	100.00	1,232,000		
	composite mean paner, rancosona or equal, 40%	12,320	01	100.00	1,2,2,000		
092900							
	Exterior wall;		c				
	6" Stud backup	30,800	sf	16.00	492,800		
	Gypsum Sheathing	30,800	sf	3.50	107,800		
	Drywall lining to interior face of stud backup; IRGWB	30,800	sf	6.00	184,800		
101400	SIGNAGE						
	Exterior signage - allowance	1	ls	10,000.00	10,000		
	SUBTOTAL					3,722,942	
B202	o WINDOWS						
	Exterior Wall Area	7,700	sf				
061000	ROUGH CARPENTRY						
	Wood blocking at openings	2,567	lf	10.00	25,670		
070001	WATERPROOFING, DAMPPROOFING AND CAULKING						
	Air barrier/flashing at windows	2,567	lf	10.00	25,670		
	Backer rod & double sealant	2,567	lf	11.00	28,237		
		,0 - ,			- 7 07		
080001							
	Aluminum windows, triple glazed including interior and exterior trim per details	7,700	sf	175.00	1,347,500		
	Passive house premium				NR		
089000	LOUVERS						
,	Louvers				N/A		
	SUBTOTAL				N/A	1 497 077	
	SOBIOTAL					1,427,077	
B203	o EXTERIOR DOORS						
	Allowance for exterior doors	72,000	gsf	1.00	72,000		
	SUBTOTAL					72,000	
	TOTAL - EXTERIOR CLOSURE						\$5,222,
Взо	ROOFING						
061000			•				
	Rough carpentry and blocking @ roof	72,000	sf	1.50	108,000		
070002			total area				
	PVC roof membrane system, white or gray, 1/2" coverboard, 10" polyiso insulation, vapor barrier	72,000	sf	33.00	2,376,000		
	Miscellaneous Roofing Miscellaneous flashings/copings/walkway pads etc.	72,000	sf	4.00	288,000		
	SUBTOTAL					2,772,000	
B302	o ROOF OPENINGS						
	SUBTOTAL					-	
	TOTAL - ROOFING						¢0 === :
	I OTAL - ROOFING						\$2,772,0



CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

F.2 - NEW FIELDHOUSE OPTION 2

C10	INTERIOR CONSTRUCTION						
C1010	PARTITIONS						
040001	MASONRY						
	Allowance for masonry partitions	6,678	sf	35.00	233,730		
061000	ROUGH CARPENTRY						
	Backer panels in electrical closets	1	ls	10,000.00	10,000		
	Wood blocking at interiors	72,000	gsf	0.50	36,000		
070001	WATERPROOFING, DAMPPROOFING AND CAULKING						
	Miscellaneous sealants throughout building	72,000	gsf	1.00	72,000		
	SUBTOTAL					351,730	
C1020	INTERIOR DOORS						
	Doors, frames, hardware; complete	17	lvs	3,500.00	59,500		
	SUBTOTAL					59,500	
C1030	SPECIALTIES / MILLWORK						
055000	MISCELLANEOUS METALS						
	Miscellaneous metals throughout building	72,000	gsf	3.00	216,000		
101400	SIGNAGE						
	Room identification, directional & safety signage, building directory + environmental graphics	72,000	gsf	2.00	144,000		
102800	TOILET ACCESSORIES						
	Toilet accessories/compartments	2	rms	1,500.00	3,000		
104400	FIRE PROTECTION SPECIALTIES						
	Fire extinguisher cabinets	1	ls	13,164.71	13,165		
	AED cabinets	1	ls	2,000.00	2,000		
105000	LOCKERS						
	Student lockers	72,000	gsf	1.50	108,000		
	SUBTOTAL					486,165	
	TOTAL - INTERIOR CONSTRUCTION						\$897,395

C20 STAIRCASES

C2010 STAIR CONSTRUCTION

SUBTOTAL

C2020 STAIR FINISHES

SUBTOTAL

TOTAL - STAIRCASES

C30	INTERIOR FINISHES					
C3010	WALL FINISHES					
	Wall finishes complete package SUBTOTAL	72,000	gsf	3.00	216,000	216,000
C3020	FLOOR FINISHES					
	Rubber flooring	50,400	sf	18.00	907,200	
	Floor finishes; Wood 50% of infield	14,000	sf	38.00	532,000	
	Floor finishes; track	18,000	sf	30.00	540,000	
	SUBTOTAL					1,979,200

C3030 CEILING FINISHES



F.2 - NEW FIELDHOUSE OPTION 2

 Cap over rooms
 6,700
 sf
 30.00
 201,000

 Ceiling finishes; paint exposed structure
 72,000
 gsf
 3.00
 216,000

SUBTOTAL 417,000

TOTAL - INTERIOR FINISHES \$2,612,200

10.00

9.00

720,000

648,000

D10 CONVEYING SYSTEMS

D1010 ELEVATOR

SUBTOTAL

TOTAL - CONVEYING SYSTEMS

D20 PLUMBING

D20 PLUMBING, GENERALLY

Plumbing package complete 72,000 gsf

SUBTOTAL 720,000

TOTAL - PLUMBING \$720,000

D30 HVAC

D30 HVAC, GENERALLY

HVAC System **72,000** gsf 50.00 3,600,000

SUBTOTAL 3,600,000

TOTAL - HVAC \$3,600,000

gsf

D40 FIRE PROTECTION

D40 FIRE PROTECTION, GENERALLY

Fire Equipment

Sprinkler system; complete

SUBTOTAL 648,000

5621611E

TOTAL - FIRE PROTECTION \$648,000

72,000

D50 ELECTRICAL

D5010 ELECTRICAL SYSTEMS

Gear & DistributionNormal power distribution system

Panelboards/feeders **72,000** gsf 6.00 432,000

 Equipment Wiring

 Feeders + Electrical to equipment
 72,000 gsf
 7.00 504,000

SUBTOTAL 936,000

D5020 LIGHTING & POWER

Lighting, Controls + Power 72,000 gsf 12.00 864,000 SUBTOTAL 864,000

D5030 COMMUNICATION & SECURITY SYSTEMS

 Telecommunications/PA + Clock
 72,000
 gsf
 4,00
 288,000

 Fire Alarm
 72,000
 gsf
 3,00
 216,000

 Security System
 72,000
 gsf
 10.00
 720,000

SUBTOTAL 1,224,000

D5040 OTHER ELECTRICAL SYSTEMS

Common Work Results for Electrical

Lightning prevention 72,000 gsf 0.30 21,600 Grounding 72,000 gsf 0.40 28,800 Misc. demolition work 18,000 72,000 gsf 0.25 Temp power and lights gsf 86,400 72,000 1.20

PSR Options Cost Estimate

exington High School 07-Oct-24

CSI UNIT EST'D SUB TOTAL
CODE DESCRIPTION QTY UNIT COST COST TOTAL COST

F.2 - NEW FIELDHOUSE OPTION 2

Seismic restraints/Coordination/misc. 72,000 gsf 1.00

SUBTOTAL 226,800

TOTAL - ELECTRICAL \$3,250,800

E10 EQUIPMENT

E10 EQUIPMENT, GENERALLY

AV Equipment 1 ls 100,000.00 100,000

116600 GYM EQUIPMENT

Gym Equipment **1** ls 500,000.00 500,000

126000 SEATING

Retractable bleachers 1,500 seat 250.00 375,000

SUBTOTAL 975,000

TOTAL - EQUIPMENT \$975,000

E20 FURNISHINGS

E2010 FIXED FURNISHINGS

122100 WINDOW TREATMENT

Window shades at exterior glazing; electric 7,700 sf 30.00 231,000

SUBTOTAL 231,000

E2020 MOVABLE FURNISHINGS

All movable furnishings to be provided and installed by owner

SUBTOTAL

TOTAL - FURNISHINGS \$231,000

F10 SPECIAL CONSTRUCTION

F10 SPECIAL CONSTRUCTION

SUBTOTAL -

TOTAL - SPECIAL CONSTRUCTION

F20 SELECTIVE BUILDING DEMOLITION

F2010 BUILDING ELEMENTS DEMOLITION

No items in this section SUBTOTAL

F2020 HAZARDOUS COMPONENTS ABATEMENT

See main summary for HazMat allowance See Summary

SUBTOTAL

TOTAL - SELECTIVE BUILDING DEMOLITION

SUBTOTAL \$30,294,335

GFA

72,000

72,000





CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

G.1 FIELDHOUSE - ADD/RENOVATION OPTION 3

GROSS FLOOR AREA CALCULATION

New 13,600 Reno 34,400

	TOTAL GROSS FLOOR AREA (GFA)				48,000 sf		
					40,000		
A10	FOUNDATIONS	_					
A1010	STANDARD FOUNDATIONS Strip Footings: 1 x 2						
	Strip Footings; 1 x 3 Formwork	600	sf	15.00	9,000		
	Re-bar	3,960	lbs.	2.50	9,900		
	Concrete material	23	cy	160.00	3,680		
	Placing concrete	23	cy	120.00	2,760		
	Perimeter foundation walls; 20" Thick x 3.5 ft H	-5	٠,	120.00	2,700		
	Formwork	2,100	sf	21.00	44,100		
	Re-bar	5,250	lbs.	2.50	13,125		
	Concrete material	68	cy	160.00	10,880		
	Placing concrete	68	cy	120.00	8,160		
	Form shelf	300	lf	8.00	2,400		
	Spread Footings; 9 x 9 x 2	34	ea				
	Formwork	2,448	sf	18.00	44,064		
	Re-bar	16,524	lbs.	2.50	41,310		
	Concrete material	214	cy	160.00	34,240		
	Placing concrete	214	cy	120.00	25,680		
	Set anchor bolts grout plates	34	ea	250.00	8,500		
	Piers	34	ea				
	Formwork	408	sf	24.00	9,792		
	Re-bar	4,590	lbs	2.50	11,475		
	Concrete material	16	cy	160.00	2,560		
	Placing concrete	16	cy	160.00	2,560		
70001	WATERPROOFING, DAMPPROOFING AND CAULKING						
	Damproofing @ foundation wall	1,200	sf	4.00	4,800		
72100	THERMAL INSULATION						
	Rigid insulation to face of foundation wall	1,200	sf	3.00	3,600		
	Brick Shelf 4" insulation	300	lf	20.00	6,000		
12000	EARTHWORK						
	Strip footings						
	Excavation	333	cy	14.00	4,662		
	Reuse excess material on site	91	cy	15.00	1,365		
	Backfill with select fill	242	cy	25.00	6,050		
	Spread footings						
	Excavation	609	cy	14.00	8,526		
	Reuse excess material on site	230	cy	15.00	3,450		
	Backfill with select fill	379	cy	25.00	9,475		
	Miscellaneous						
	Foundation drain	300	lf	30.00	9,000		
	SUBTOTAL					341,114	
A1020	SPECIAL FOUNDATIONS						
	Rigid inclusions SUBTOTAL	13,600	sf	35.00	476,000	476,000	
	LOWEST FLOOR CONSTRUCTION						
33000	CONCRETE						
-							
	Vapor barrier, 15mils Slab on grade	13,600	sf sf	1.25	17,000		





GFA PSR Options Cost Estimate 48,000

CSI ODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
1 FIELDHO	OUSE - ADD/RENOVATION OPTION 3	•				•	
	Concrete - 5" thick	217	cy	170.00	36,890		
	Placing concrete	217	cy	65.00	14,105		
	Finishing and curing concrete	13,600	sf	3.00	40,800		
	Control joints - saw cut	13,600	sf	0.10	1,360		
	Replace existing slab	34,400	sf	15.00	516,000		
072100	THERMAL INSULATION						
	Under slab insulation, 2" thick under slab	13,600	sf	3.00	40,800		
312000	EARTHWORK						
	Gravel base, 12"	504	cy	45.00	22,680		
	Allowance for underslab drainage	13,600	sf	2.00	27,200		
	Compact existing sub-grade	13,600	sf	0.50	6,800		
	Underslab E&B for plumbing	13,600	sf	1.50	20,400		
	SUBTOTAL					772,969	
	TOTAL - FOUNDATIONS						\$1,590,08

BASEMENT CONSTRUCTION

A2010 BASEMENT EXCAVATION

No Work in this section SUBTOTAL

A2020 BASEMENT WALLS

A20

No Work in this section SUBTOTAL

TOTAL - BASEMENT CONSTRUCTION

B10 SUPERSTRUCTURE

B1010 FLOOR CONSTRUCTION

SUBTOTAL

B1020 ROOF CONSTRUCTION

051200 STRUCTURAL STEEL FRAMING

Structural steel framing; Complete; 13 lbs per SF $\,$ 88 tns 6,500.00 572,000 Modify existing framing ls 150,000.00 150,000 Decking

3" galvanized metal deck, acoustic; assume all new 48,000 sf 12.00 576,000

FIREPROOFING/FIRESTOPPING

Fireproofing to columns, beams and deck; 1 hr - includes NR 48,000 sf 5.00

Intumescent

SUBTOTAL 1,298,000

TOTAL - SUPERSTRUCTURE \$1,298,000

EXTERIOR CLOSURE

B2010 EXTERIOR WALLS 28,000 Total closure area

22,400 sf total area solid **Exterior Wall Area**

042000 MASONRY

Brick veneer; 100% of Solid 22,400 sf 44.00 985,600 8" Mineral wool at exterior closure (2 layers 4") sf168,000 22,400 7.50 Miscellaneous flashings and sealants sf 22,400 1.50 33,600





	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
ELDHOU	USE - ADD/RENOVATION OPTION 3						
	Staging to exterior wall	22,400	sf	4.00	89,600		
055000	MISC. METALS						
	Misc. metals at masonry including loose lintels (relieving angles	22,400	sf	1.50	33,600		
	included in steel tns)			_			
070001	WATERPROOFING, DAMPPROOFING AND CAULKING						
	Air barrier	22,400	sf	10.00	224,000		
	Miscellaneous sealants to closure	22,400	sf	1.00	22,400		
072100	THERMAL INSULATION						
0/2100	4" Cellulose insulation in stud	22,400	sf	3.25	72,800		
	Insulation at glazed openings	1,867	lf	6.00	11,202		
		1,007		0.00	11,202		
076400	CLADDING						
	Composite metal panel, Alucobond or equal				NR		
092900	GYPSUM BOARD ASSEMBLIES						
0,2,00	Exterior wall;						
	6" Stud backup	22,400	sf	16.00	358,400		
	Gypsum Sheathing	22,400	sf	3.50	78,400		
	Drywall lining to interior face of stud backup; IRGWB	22,400	sf	6.00	134,400		
101400	SIGNAGE						
	Exterior signage - allowance	1	ls	10,000.00	10,000		
	SUBTOTAL			.,	-,	2,222,002	
Paga	WINDOWS						
B2020	Exterior Wall Area	5,600	sf				
061000	ROUGH CARPENTRY	. 0.4	16		.0.6		
	Wood blocking at openings	1,867	lf	10.00	18,670		
070001	WATERPROOFING, DAMPPROOFING AND CAULKING						
	Air barrier/flashing at windows	1,867	lf	10.00	18,670		
	Backer rod & double sealant	1,867	lf	11.00	20,537		
080001	METAL WINDOWS						
	Aluminum windows, triple glazed including interior and exterior trim	5,600	sf	175.00	980,000		
	per details						
	Passive house premium				NR		
089000	LOUVERS						
	Louvers				N/A		
	SUBTOTAL					1,037,877	
B2030	EXTERIOR DOORS						
	Allowance for exterior doors	48,000	gsf	1.00	48,000		
	SUBTOTAL					48,000	
	TOTAL - EXTERIOR CLOSURE						\$3,307,

Взо	ROOFING					
061000	ROUGH CARPENTRY					
	Rough carpentry and blocking @ roof	48,000	sf	1.50	72,000	
070002	ROOFING AND FLASHING	48,000	total area			
	PVC roof membrane system, white or gray, 1/2" coverboard, 10" polyiso insulation, vapor barrier	48,000	sf	33.00	1,584,000	
	Miscellaneous Roofing					
	Miscellaneous flashings/copings/walkway pads etc.	48,000	sf	4.00	192,000	
	SUBTOTAL					1,848,000





CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

G.1 FIELDHOUSE - ADD/RENOVATION OPTION 3 B3020 ROOF OPENINGS

SUBTOTAL -

	TOTAL - ROOFING						\$1,848,00
C10	INTERIOR CONSTRUCTION						
C1010	PARTITIONS						
040001	MASONRY						
	Allowance for masonry partitions	6,104	sf	35.00	NR		
061000	ROUGH CARPENTRY						
	Backer panels in electrical closets	1	ls	10,000.00	10,000		
	Wood blocking at interiors	48,000	gsf	0.50	24,000		
070001	WATERPROOFING, DAMPPROOFING AND CAULKING						
	Miscellaneous sealants throughout building	48,000	gsf	1.00	48,000		
	SUBTOTAL					82,000	
C1020	INTERIOR DOORS						
	Doors, frames, hardware; complete	17	lvs	3,500.00	NR		
	SUBTOTAL					-	
C1030	SPECIALTIES / MILLWORK						
055000	MISCELLANEOUS METALS						
	Miscellaneous metals throughout building	48,000	gsf	3.00	144,000		
101400	SIGNAGE						
101400	SIGNAGE Room identification, directional & safety signage, building directory + environmental graphics	48,000	gsf	2.00	96,000		
	Room identification, directional & safety signage, building directory	48,000	gsf	2.00	96,000		
	Room identification, directional & safety signage, building directory + environmental graphics	48,000	gsf	2.00	96,000 3,000		
101400	Room identification, directional & safety signage, building directory + environmental graphics **TOILET ACCESSORIES**		Ü				
102800	Room identification, directional & safety signage, building directory + environmental graphics **TOILET ACCESSORIES** Toilet accessories/compartments		Ü				
02800	Room identification, directional & safety signage, building directory + environmental graphics **TOILET ACCESSORIES** Toilet accessories/compartments **FIRE PROTECTION SPECIALTIES**	2	rms	1,500.00	3,000		
02800	Room identification, directional & safety signage, building directory + environmental graphics **TOILET ACCESSORIES** Toilet accessories/compartments **FIRE PROTECTION SPECIALTIES** Fire extinguisher cabinets	2	rms	1,500.00 9,736.14	3,000 9,736		
02800 04400	Room identification, directional & safety signage, building directory + environmental graphics **TOILET ACCESSORIES** Toilet accessories/compartments **FIRE PROTECTION SPECIALTIES** Fire extinguisher cabinets AED cabinets	2	rms	1,500.00 9,736.14	3,000 9,736		

C20 STAIRCASES

C2010 STAIR CONSTRUCTION

SUBTOTAL

C2020 STAIR FINISHES

SUBTOTAL -

TOTAL - STAIRCASES

C30 INTERIOR FINISHES

C3010 WALL FINISHES

Wall finishes complete package 48,000 gsf 3.00 144,000

SUBTOTAL 144,000

C3020 FLOOR FINISHES

Rubber flooring **36,900** sf 18.00 664,200



GFA PSR Options Cost Estimate 48.000

SI DDE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL
FIELDHO	USE - ADD/RENOVATION OPTION 3	<u> </u>					
	Floor finishes; Wood 50% of infield	15,000	sf	38.00	570,000		
	Floor finishes; track	8,700	sf	30.00	261,000		
	SUBTOTAL					1,495,200	
C3030	O CEILING FINISHES						
	Cap over rooms	5,664	sf	30.00	NR		
	Ceiling finishes; paint exposed structure	48,000	gsf	3.00	144,000		
	SUBTOTAL					144,000	

TOTAL - INTERIOR FINISHES

\$1,783,200

D10 CONVEYING SYSTEMS

D1010 ELEVATOR

SUBTOTAL

TOTAL - CONVEYING SYSTEMS

PLUMBING D20

PLUMBING, GENERALLY D20

Plumbing package complete Temporary restrooms ${\bf SUBTOTAL}$

480,000 48,000 $\operatorname{\mathsf{gsf}}$ 10.00 ls 60,000.00 60,000

540,000

TOTAL - PLUMBING \$540,000

D30 HVAC

D30 HVAC, GENERALLY

HVAC System

gsf 2,400,000 48,000 50.00

SUBTOTAL 2,400,000

> TOTAL - HVAC \$2,400,000

D40 FIRE PROTECTION

FIRE PROTECTION, GENERALLY

Fire Equipment

Sprinkler system; complete

SUBTOTAL

48,000 gsf 9.00 432,000

432,000

48,000

TOTAL - FIRE PROTECTION \$432,000

gsf

D50 ELECTRICAL

D5010 ELECTRICAL SYSTEMS

Equipment Wiring

Gear & Distribution

Normal power distribution system Panelboards/feeders

SUBTOTAL

6.00

288,000

Feeders + Electrical to equipment 48,000 gsf 7.00 336,000

D5020 LIGHTING & POWER

Lighting, Controls + Power 48,000 gsf 12.00 576,000

SUBTOTAL 576,000

D5030 COMMUNICATION & SECURITY SYSTEMS

Telecommunications/PA+Clock48,000 gsf 4.00 192,000 Fire Alarm 48,000 gsf 3.00 144,000 Security System 48,000 gsf 10.00 480,000

SUBTOTAL 816,000

624,000





CSI CODE		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
G.1 FIE	ELDHOUSE	ADD/RENOVATION OPTION 3						
	D5040 OTI	HER ELECTRICAL SYSTEMS						
	Com	amon Work Results for Electrical						
	Ligh	tning prevention	48,000	gsf	0.30	14,400		
	Grou	unding	48,000	gsf	0.40	19,200		
	Misc	c. demolition work	48,000	gsf	0.25	12,000		
	Tem	p power and lights	48,000	gsf	1.20	57,600		
	Seisi	mic restraints/Coordination/misc.	48,000	gsf	1.00	48,000		
	SUB	TOTAL					151,200	

TOTAL - ELECTRICAL \$2,167,200

E10 EQUIPMENT
E10 EQUIPMENT, GENERALLY

AV Equipment **1** ls 100,000.00 100,000

 116600
 GYM EQUIPMENT

 Gym Equipment
 1
 ls
 500,000.00
 500,000

 126000
 SEATING

 Retractable bleachers
 1,500 seat
 250.00
 375,000

SUBTOTAL 975,000

TOTAL - EQUIPMENT \$975,000

E20 FURNISHINGS

E2010 FIXED FURNISHINGS

122100 WINDOW TREATMENT

Window shades at exterior glazing; electric **5,600** sf 30.00 168,000

SUBTOTAL 168,000

E2020 MOVABLE FURNISHINGS

All movable furnishings to be provided and installed by owner

SUBTOTAL

TOTAL - FURNISHINGS \$168,000

F10 SPECIAL CONSTRUCTION

F10 SPECIAL CONSTRUCTION

SUBTOTAL -

TOTAL - SPECIAL CONSTRUCTION

F20 SELECTIVE BUILDING DEMOLITION

F2010 BUILDING ELEMENTS DEMOLITION

 Remove existing closure
 9,870
 sf
 10.00
 98,700

 Remove existing roofing
 34,400
 sf
 5.00
 172,000

 Gut demolition
 34,400
 sf
 10.00
 344,000

SUBTOTAL 614,700

F2020 HAZARDOUS COMPONENTS ABATEMENT

See main summary for HazMat allowance See Summary

SUBTOTAL

TOTAL - SELECTIVE BUILDING DEMOLITION \$614,700

SUBTOTAL \$17,532,798



CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

F.3 NEW FIELDHOUSE - OPTION 4

GROSS FLOOR AREA CALCULATION

Level 1 60,000

	TOTAL GROSS FLOOR AREA (GFA)				60,000 sj	•
A10	FOUNDATIONS					
A1010	STANDARD FOUNDATIONS					
	Strip Footings; 1 x 3					
	Formwork	2,008	sf	15.00	30,120	
	Re-bar	13,253	lbs.	2.50	33,133	
	Concrete material	78	cy	160.00	12,480	
	Placing concrete	78	cy	120.00	9,360	
	Perimeter foundation walls; 20" Thick x 3.5 ft H					
	Formwork	7,028	sf	21.00	147,588	
	Re-bar	17,570	lbs.	2.50	43,925	
	Concrete material	228	cy	160.00	36,480	
	Placing concrete	228	cy	120.00	27,360	
	Form shelf	1,004	lf	8.00	8,032	
	Spread Footings; 9 x 9 x 2	150	ea			
	Formwork	10,800	sf	18.00	194,400	
	Re-bar	72,900	lbs.	2.50	182,250	
	Concrete material	945	cy	160.00	151,200	
	Placing concrete	945	cy	120.00	113,400	
	Set anchor bolts grout plates	150	ea	250.00	37,500	
	<u>Piers</u>	150	ea			
	Formwork	1,800	sf	24.00	43,200	
	Re-bar	20,250	lbs	2.50	50,625	
	Concrete material	70	cy	160.00	11,200	
	Placing concrete	70	cy	160.00	11,200	
70001	$WATERPROOFING, DAMPPROOFING\ AND\ CAULKING$					
	Damproofing @ foundation wall	4,016	sf	4.00	16,064	
72100	THERMAL INSULATION					
	Rigid insulation to face of foundation wall	4,016	sf	3.00	12,048	
	Brick Shelf 4" insulation	1,004	lf	20.00	20,080	
312000	EARTHWORK					
	Strip footings					
	Excavation	1,116	cy	14.00	15,624	
	Reuse excess material on site	306	cy	15.00	4,590	
	Backfill with select fill	810	cy	25.00	20,250	
	Spread footings		-	-	. •	
	Excavation	2,689	cy	14.00	37,646	
	Reuse excess material on site	1,015	cy	15.00	15,225	
	Backfill with select fill	1,674	cy	25.00	41,850	
	Miscellaneous_	, , .	•	Ü	., 0	
	Foundation drain	1,004	lf	30.00	30,120	
	SUBTOTAL					1,356,950
A1020	SPECIAL FOUNDATIONS					
A1020	Rigid inclusions	60,000	sf	35.00	2,100,000	
	SUBTOTAL	,	-	00.44	_,,	2,100,000
-	LOWEST FLOOR CONSTRUCTION CONCRETE					
50-50	Vapor barrier, 15mils	60,000	sf	1.25	75,000	
	Slab on grade	60,000	sf	1.20	/5,000	
	WWF reinforcement	69,000	sf	1.85	127,650	
		- ,,	-	0	/,-0-	

\$4,590,485



PSR Options Cost Estimate GFA 60,000

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL
		*					
F.3 NEW FIE	LDHOUSE - OPTION 4						
	Placing concrete	957	cy	65.00	62,205		
	Finishing and curing concrete	60,000	sf	3.00	180,000		
	Control joints - saw cut	60,000	sf	0.10	6,000		
072100	THERMAL INSULATION						
	Under slab insulation, 2" thick under slab	60,000	sf	3.00	180,000		
312000	O EARTHWORK						
	Gravel base, 12"	2,222	cy	45.00	99,990		
	Allowance for underslab drainage	60,000	sf	2.00	120,000		
	Compact existing sub-grade	60,000	sf	0.50	30,000		
	Underslab E&B for plumbing	60,000	sf	1.50	90,000		
	SUBTOTAL					1,133,535	

A20 BASEMENT CONSTRUCTION

TOTAL - FOUNDATIONS

A2010 BASEMENT EXCAVATION

No Work in this section SUBTOTAL

A2020 BASEMENT WALLS

No Work in this section SUBTOTAL

TOTAL - BASEMENT CONSTRUCTION

B10 SUPERSTRUCTURE

B1010 FLOOR CONSTRUCTION

SUBTOTAL -

B1020 ROOF CONSTRUCTION

051200 STRUCTURAL STEEL FRAMING

Decking

3" galvanized metal deck, acoustic **60,000** sf 12.00 720,000

078100 FIREPROOFING/FIRESTOPPING

Fireproofing to columns, beams and deck; 1 hr - includes 60,000 sf 5.00 NR

Intumescent

SUBTOTAL 3,255,000

TOTAL - SUPERSTRUCTURE \$3,255,000

B20 EXTERIOR CLOSURE

B2010 EXTERIOR WALLS35,140 Total closure area

Exterior Wall Area 28,112 sf total area solid

042000 MASONRY

Brick veneer; 60% of Solid 16,867 sf 742,148 44.00 8" Mineral wool at exterior closure (2 layers 4") 28,112 sf 210,840 7.50 Miscellaneous flashings and sealants 28,112 sf 42,168 1.50 Staging to exterior wall 28,112 sf 4.00 112,448

055000 MISC. METALS

Misc. metals at masonry including loose lintels (relieving angles 16,867 sf 1.50 25,301

included in steel tns)





	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL
		•					
070001	WATERPROOFING, DAMPPROOFING AND CAULKING	00.440	c	40.00	004 400		
	Air barrier	28,112	sf	10.00	281,120		
	Miscellaneous sealants to closure	28,112	sf	1.00	28,112		
072100	THERMAL INSULATION						
	4" Cellulose insulation in stud	28,112	sf	3.25	91,364		
	Insulation at glazed openings	2,343	lf	6.00	14,058		
076400	CLADDING						
076400	Composite metal panel, Alucobond or equal; 40%	11,245	sf	100.00	1,124,500		
092900	GYPSUM BOARD ASSEMBLIES						
	Exterior wall;						
	6" Stud backup	28,112	sf	16.00	449,792		
	Gypsum Sheathing	28,112	sf	3.50	98,392		
	Drywall lining to interior face of stud backup; IRGWB	28,112	sf	6.00	168,672		
		0,11	01	0.00	100,0,2		
101400	SIGNAGE						
	Exterior signage - allowance	1	ls	10,000.00	10,000		
	SUBTOTAL					3,398,915	
B2026	o WINDOWS						
2202	Exterior Wall Area	7,028	sf				
061000	ROUGH CARPENTRY						
	Wood blocking at openings	2,343	lf	10.00	23,430		
070001	WATERPROOFING, DAMPPROOFING AND CAULKING						
	Air barrier/flashing at windows	2,343	lf	10.00	23,430		
	Backer rod & double sealant	2,343	lf	11.00	25,773		
080001	METAL WINDOWS						
	Aluminum windows, triple glazed including interior and exterior trim per details	7,028	sf	175.00	1,229,900		
	Passive house premium				NR		
.0	LOUNTING						
089000					***		
	Louvers				N/A		
	SUBTOTAL					1,302,533	
B2030	D EXTERIOR DOORS		ŕ				
	Allowance for exterior doors	60,000	gsf	1.00	60,000		
	SUBTOTAL					60,000	
	TOTAL - EXTERIOR CLOSURE						\$4,761,
Взо	ROOFING						
061000	ROUGH CARPENTRY						
002000	Rough carpentry and blocking @ roof	60,000	sf	1.50	90,000		
070002	ROOFING AND FLASHING	60.000	total area	l.			
	PVC roof membrane system, white or gray, 1/2" coverboard, 10"	60,000	sf	33.00	1,980,000		
	polyiso insulation, vapor barrier Miscellaneous Roofing	30,000	51	J3.00	2,900,000		
	Miscellaneous flashings/copings/walkway pads etc.	60,000	sf	4.00	240,000		
	SUBTOTAL					2,310,000	
B3020	O ROOF OPENINGS						
	SUBTOTAL					-	
	TOTAL - ROOFING						\$2,310,
	TOTAL - NOOTHO						φ=,310,



С	SI				UNIT	EST'D	SUB	TOTAL
cc	ODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

F.3 NEW FIELDHOUSE - OPTION 4

C10	INTERIOR CONSTRUCTION						
C1010	PARTITIONS						
040001	MASONRY						
	Allowance for masonry partitions	6,104	sf	35.00	213,640		
061000	ROUGH CARPENTRY						
	Backer panels in electrical closets	1	ls	10,000.00	10,000		
	Wood blocking at interiors	60,000	gsf	0.50	30,000		
070001	$WATERPROOFING, DAMPPROOFING\ AND\ CAULKING$						
	Miscellaneous sealants throughout building	60,000	gsf	1.00	60,000		
	SUBTOTAL					313,640	
C1020	INTERIOR DOORS						
	Doors, frames, hardware; complete	17	lvs	3,500.00	59,500		
	SUBTOTAL					59,500	
C1030	SPECIALTIES / MILLWORK						
055000	MISCELLANEOUS METALS						
	Miscellaneous metals throughout building	60,000	gsf	3.00	180,000		
101400	SIGNAGE						
	Room identification, directional & safety signage, building directory + environmental graphics	60,000	gsf	2.00	120,000		
102800	TOILET ACCESSORIES						
	Toilet accessories/compartments	2	rms	1,500.00	3,000		
104400	FIRE PROTECTION SPECIALTIES						
	Fire extinguisher cabinets	1	ls	11,450.43	11,450		
	AED cabinets	1	ls	2,000.00	2,000		
105000	LOCKERS						
	Student lockers	60,000	gsf	1.50	90,000		
	SUBTOTAL					406,450	
	TOTAL - INTERIOR CONSTRUCTION						\$779,590

C20	STAIRCASES	

C2010 STAIR CONSTRUCTION

SUBTOTAL

C2020 STAIR FINISHES

SUBTOTAL -

TOTAL - STAIRCASES

INTERIOR FINISHES					
WALL FINISHES					
Wall finishes complete package SUBTOTAL	60,000	gsf	3.00	180,000	180,000
FLOOR FINISHES					
Rubber flooring	44,000	sf	18.00	792,000	
Floor finishes; Wood 50% of infield	14,000	sf	38.00	532,000	
Floor finishes; track	13,000	sf	30.00	390,000	
SUBTOTAL					1,714,000
V F R	VALL FINISHES Vall finishes complete package UBTOTAL FLOOR FINISHES tubber flooring loor finishes; Wood 50% of infield floor finishes; track	VALL FINISHES Vall finishes complete package 60,000 UBTOTAL FLOOR FINISHES tubber flooring 44,000 floor finishes; Wood 50% of infield 14,000 floor finishes; track 13,000	VALL FINISHES Vall finishes complete package UBTOTAL FLOOR FINISHES tubber flooring floor finishes; Wood 50% of infield 14,000 sf 14,000 sf 10or finishes; track 13,000 sf	VALL FINISHES Vall finishes complete package 60,000 gsf 3.00 UBTOTAL PLOOR FINISHES tubber flooring 44,000 sf 18.00 cloor finishes; Wood 50% of infield 14,000 sf 38.00 cloor finishes; track 13,000 sf 30.00	VALL FINISHES Vall finishes complete package 60,000 gsf 3.00 180,000 UBTOTAL FLOOR FINISHES tubber flooring 44,000 sf 18.00 792,000 cloor finishes; Wood 50% of infield 14,000 sf 38.00 532,000 cloor finishes; track 13,000 sf 30.00 390,000



TOTAL CODE DESCRIPTION QTY UNIT COST COST TOTAL

F.3 NEW FIELDHOUSE - OPTION 4

Cap over rooms 5,664 sf 30.00 169,920 Ceiling finishes; paint exposed structure 60,000 gsf 3.00 180,000

SUBTOTAL 349,920

TOTAL - INTERIOR FINISHES \$2,243,920

CONVEYING SYSTEMS D10

D1010 ELEVATOR

D20

SUBTOTAL

PLUMBING

TOTAL - CONVEYING SYSTEMS

PLUMBING, GENERALLY D20

Plumbing package complete 60,000 gsf 10.00

SUBTOTAL 600,000

TOTAL - PLUMBING \$600,000

D30 HVAC

D30 HVAC, GENERALLY

> HVAC System 60,000 gsf 50.00 3,000,000

SUBTOTAL 3,000,000

TOTAL - HVAC \$3,000,000

600,000

D40 FIRE PROTECTION

D40 FIRE PROTECTION, GENERALLY

Fire Equipment

Sprinkler system; complete

SUBTOTAL

gsf 9.00 540,000

60,000 540,000

TOTAL - FIRE PROTECTION \$540,000

D50 ELECTRICAL

D5010 ELECTRICAL SYSTEMS

Gear & Distribution

Normal power distribution system

Panelboards/feeders 60,000 gsf 6.00 360,000

Equipment Wiring

Feeders + Electrical to equipment 60,000 gsf 7.00 420,000

SUBTOTAL

780,000

D5020 LIGHTING & POWER Lighting, Controls + Power

60,000 gsf 12.00 720,000 SUBTOTAL 720,000

D5030 COMMUNICATION & SECURITY SYSTEMS

Telecommunications/PA + Clock 60,000 gsf 240,000 4.00 Fire Alarm 60,000 gsf 3.00 180,000

Security System 60,000 gsf 10.00 600,000 SUBTOTAL 1,020,000

D5040 OTHER ELECTRICAL SYSTEMS

Common Work Results for Electrical

Lightning prevention 60,000 gsf 0.30 18,000 Grounding 60,000 gsf 0.40 24,000 Misc. demolition work 60,000 $\operatorname{\mathsf{gsf}}$ 15,000 0.25 Temp power and lights 60,000 gsf 1.20 72,000 PSR Options Cost Estimate

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CSI UNIT EST'D SUB TOTAL
CODE DESCRIPTION QTY UNIT COST COST TOTAL COST

F.3 NEW FIELDHOUSE - OPTION 4

Seismic restraints/Coordination/misc. **60,000** gsf 1.00 60,000

SUBTOTAL 189,000

TOTAL - ELECTRICAL \$2,709,000

E10 EQUIPMENT

E10 EQUIPMENT, GENERALLY

AV Equipment 1 ls 100,000.00 100,000

116600 GYM EQUIPMENT

Gym Equipment 1 ls 500,000.00 500,000

126000 SEATING

Retractable bleachers 1,500 seat 250.00 375,000

SUBTOTAL 975,000

TOTAL - EQUIPMENT \$975,000

E20 FURNISHINGS

E2010 FIXED FURNISHINGS

122100 WINDOW TREATMENT

Window shades at exterior glazing; electric 7,028 sf 30.00 210,840

SUBTOTAL 210,840

E2020 MOVABLE FURNISHINGS

All movable furnishings to be provided and installed by owner

SUBTOTAL

TOTAL - FURNISHINGS \$210,840

F10 SPECIAL CONSTRUCTION

F10 SPECIAL CONSTRUCTION

SUBTOTAL -

TOTAL - SPECIAL CONSTRUCTION

F20 SELECTIVE BUILDING DEMOLITION

F2010 BUILDING ELEMENTS DEMOLITION

No items in this section SUBTOTAL

F2020 HAZARDOUS COMPONENTS ABATEMENT

See main summary for HazMat allowance See Summary

SUBTOTAL

TOTAL - SELECTIVE BUILDING DEMOLITION

SUBTOTAL \$25,975,283

GFA

60,000



CSI UNIT EST'D SUB TOTAL
CODE DESCRIPTION QTY UNIT COST COST TOTAL COST

G.o FIELDHOUSE - ADD/RENOVATION OPTION 5

GROSS FLOOR AREA CALCULATION

Reno

34,000

TOTAL GROSS FLOOR AREA (GFA) 34,000 sf

A10 FOUNDATIONS

A1010 STANDARD FOUNDATIONS

SUBTOTAL

A1020 SPECIAL FOUNDATIONS

SUBTOTAL

A1030 LOWEST FLOOR CONSTRUCTION

Replace existing slab **34,000** sf 15.00 510,000

SUBTOTAL 510,000

TOTAL - FOUNDATIONS \$510,000

A20 BASEMENT CONSTRUCTION

A2010 BASEMENT EXCAVATION

No Work in this section SUBTOTAL

A2020 BASEMENT WALLS

No Work in this section SUBTOTAL

TOTAL - BASEMENT CONSTRUCTION

B10 SUPERSTRUCTURE

B1010 FLOOR CONSTRUCTION

SUBTOTAL -

B1020 ROOF CONSTRUCTION

051200 STRUCTURAL STEEL FRAMING

Modify existing framing ${f 1}$ ls 150,000.00 NR

Decking

3" galvanized metal deck, acoustic; assume all new 34,000 sf 12.00 ETR

078100 FIREPROOFING/FIRESTOPPING

Fireproofing to columns, beams and deck; 1 hr - includes 34,000 sf 5.00 NR

Intumescent SUBTOTAL

AL -

TOTAL - SUPERSTRUCTURE

B20 EXTERIOR CLOSURE

B2010 EXTERIOR WALLS 23,030 Total closure area

Exterior Wall Area 18,424 sf total area solid

042000 MASONRY

 Brick veneer; 100% of Solid
 18,424
 sf
 44.00
 810,656

 8" Mineral wool at exterior closure (2 layers 4")
 18,424
 sf
 7.50
 138,180

 Miscellaneous flashings and sealants
 18,424
 sf
 1.50
 27,636





	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
ELDHOU	USE - ADD/RENOVATION OPTION 5		ļ.	<u> </u>			
	Staging to exterior wall	18,424	sf	4.00	73,696		
055000	MISC. METALS						
	Misc. metals at masonry including loose lintels (relieving angles included in steel tns)	18,424	sf	1.50	27,636		
070001	WATERPROOFING, DAMPPROOFING AND CAULKING						
	Air barrier	18,424	sf	10.00	184,240		
	Miscellaneous sealants to closure	18,424	sf	1.00	18,424		
072100	THERMAL INSULATION						
	4" Cellulose insulation in stud	18,424	sf	3.25	59,878		
	Insulation at glazed openings	1,535	lf	6.00	9,210		
076400	CLADDING						
	Composite metal panel, Alucobond or equal				NR		
092900	GYPSUM BOARD ASSEMBLIES						
	Exterior wall;						
	6" Stud backup	18,424	sf	16.00	294,784		
	Gypsum Sheathing	18,424	sf	3.50	64,484		
	Drywall lining to interior face of stud backup; IRGWB	18,424	sf	6.00	110,544		
101400	SIGNAGE						
	Exterior signage - allowance	1	ls	10,000.00	10,000		
	SUBTOTAL					1,829,368	
B2020	WINDOWS						
	Exterior Wall Area	4,606	sf				
061000	ROUGH CARPENTRY						
	Wood blocking at openings	1,535	lf	10.00	15,350		
070001	WATERPROOFING, DAMPPROOFING AND CAULKING						
	Air barrier/flashing at windows	1,535	lf	10.00	15,350		
	Backer rod & double sealant	1,535	lf	11.00	16,885		
080001	METAL WINDOWS						
	Aluminum windows, triple glazed including interior and exterior trim per details	4,606	sf	175.00	806,050		
	Passive house premium				NR		
089000	LOUVERS						
	Louvers				N/A		
	SUBTOTAL					853,635	
B2030	EXTERIOR DOORS						
	Allowance for exterior doors	34,000	gsf	1.00	34,000		
	SUBTOTAL					34,000	
	TOTAL - EXTERIOR CLOSURE						\$2,71

Взо	ROOFING				
61000	ROUGH CARPENTRY				
	Rough carpentry and blocking @ roof	34,000	sf	1.50	51,000
070002	ROOFING AND FLASHING	34,000	total area		
	PVC roof membrane system, white or gray, 1/2" coverboard, 10" polyiso insulation, vapor barrier	34,000	sf	33.00	1,122,000
	Miscellaneous Roofing				
	Miscellaneous flashings/copings/walkway pads etc.	34,000	sf	4.00	136,000
	SUBTOTAL				





CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

$\begin{aligned} \textbf{G.o FIELDHOUSE - ADD/RENOVATION OPTION 5} \\ \textbf{B3020} & \textbf{ROOF OPENINGS} \end{aligned}$

SUBTOTAL -

	TOTAL - ROOFING						\$1,309,00
C10	INTERIOR CONSTRUCTION						
C1010	PARTITIONS						
040001	MASONRY						
	Allowance for masonry partitions	6,104	sf	35.00	NR		
061000	ROUGH CARPENTRY						
	Backer panels in electrical closets	1	ls	10,000.00	10,000		
	Wood blocking at interiors	34,000	gsf	0.50	17,000		
70001	WATERPROOFING, DAMPPROOFING AND CAULKING						
	Miscellaneous sealants throughout building	34,000	gsf	1.00	34,000		
	SUBTOTAL					61,000	
C1020	INTERIOR DOORS						
	Doors, frames, hardware; complete	17	lvs	3,500.00	NR		
	SUBTOTAL					-	
C1030	SPECIALTIES / MILLWORK						
055000	MISCELLANEOUS METALS						
	Miscellaneous metals throughout building	34,000	gsf	3.00	102,000		
01400	SIGNAGE						
	Room identification, directional & safety signage, building directory + environmental graphics	34,000	gsf	2.00	68,000		
	+ chynomicital graphics						
02800	TOILET ACCESSORIES						
02800		2	rms	1,500.00	3,000		
102800	TOILET ACCESSORIES	2	rms	1,500.00	3,000		
	TOILET ACCESSORIES Toilet accessories/compartments	2	rms	1,500.00 7,736.14	3,000 7,736		
	TOILET ACCESSORIES Toilet accessories/compartments FIRE PROTECTION SPECIALTIES						
	TOILET ACCESSORIES Toilet accessories/compartments FIRE PROTECTION SPECIALTIES Fire extinguisher cabinets	1	ls	7,736.14	7,736		
04400	TOILET ACCESSORIES Toilet accessories/compartments FIRE PROTECTION SPECIALTIES Fire extinguisher cabinets AED cabinets	1	ls	7,736.14	7,736		

C20 STAIRCASES

C2010 STAIR CONSTRUCTION

SUBTOTAL

C2020 STAIR FINISHES

SUBTOTAL -

TOTAL - STAIRCASES

C30 INTERIOR FINISHES

C3010 WALL FINISHES

Wall finishes complete package 34,000 gsf 3.00 102,000

SUBTOTAL 102,000

C3020 FLOOR FINISHES

Rubber flooring **26,100** sf 18.00 469,800

408,000



PSR Options Cost Estimate GFA 34,000

CSI CODE DESCRIPTION QTY UNIT COST COST TOTAL COST

G.o FIELDHOUSE - ADD/RENOVATION OPTION 5

Floor finishes; track **6,200** sf 30.00 186,000

SUBTOTAL 655,800

C3030 CEILING FINISHES

Ceiling finishes; paint exposed structure 34,000 gsf 3.00 102,000

SUBTOTAL 102,000

TOTAL - INTERIOR FINISHES \$859,800

D10 CONVEYING SYSTEMS

D1010 ELEVATOR

SUBTOTAL -

TOTAL - CONVEYING SYSTEMS

D20 PLUMBING

D20 PLUMBING, GENERALLY

Plumbing package complete 34,000 gsf 10.00 340,000

SUBTOTAL 340,000

TOTAL - PLUMBING \$340,000

D30 HVAC

D30 HVAC, GENERALLY

HVAC System **34,000** gsf 50.00 1,700,000

SUBTOTAL 1,700,000

TOTAL - HVAC \$1,700,000

D40 FIRE PROTECTION

D40 FIRE PROTECTION, GENERALLY

Fire Equipment

Sprinkler system; complete 34,000 gsf 9.00 306,000

SUBTOTAL 306,000

TOTAL - FIRE PROTECTION \$306,000

D50 ELECTRICAL

D5010 ELECTRICAL SYSTEMS

Gear & Distribution

Normal power distribution system

Panelboards/feeders 34,000 gsf 6.00 204,000 Equipment Wiring

 Feeders + Electrical to equipment
 34,000
 gsf
 7.00
 238,000

 SUBTOTAL
 442,000

D5020 LIGHTING & POWER

Lighting, Controls + Power **34,000** gsf 12.00 408,000 SUBTOTAL

D5030 COMMUNICATION & SECURITY SYSTEMS

 Telecommunications/PA + Clock
 34,000
 gsf
 4.00
 136,000

 Fire Alarm
 34,000
 gsf
 3.00
 102,000

 Security System
 34,000
 gsf
 10.00
 340,000

SUBTOTAL 578,000

D5040 OTHER ELECTRICAL SYSTEMS

Common Work Results for Electrical
Lightning prevention 34,000 gsf 0.30 10,200





GFA PSR Options Cost Estimate 34,000

CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
3.0 FIE	LDHOUSE - ADD/RENOVATION OPTION 5						
	Grounding	34,000	gsf	0.40	13,600		
	Misc. demolition work	34,000	gsf	0.25	8,500		
	Temp power and lights	34,000	gsf	1.20	40,800		
	Seismic restraints/Coordination/misc.	34,000	gsf	1.00	34,000		
	SUBTOTAL					107,100	
Г	TOTAL - ELECTRICAL						\$1,535,100

EQUIPMENT E10

EQUIPMENT, GENERALLY E10

> AV Equipment ls 100,000.00 100,000

GYM EQUIPMENT 116600

> Gym Equipment ls 500,000.00 500,000

126000 SEATING

> Retractable bleachers 750 250.00 187,500

 ${\bf SUBTOTAL}$ 787,500

> TOTAL - EQUIPMENT \$787,500

E20 FURNISHINGS

E2010 FIXED FURNISHINGS

WINDOW TREATMENT

Window shades at exterior glazing; electric 4,606 30.00 138,180

SUBTOTAL 138,180

E2020 MOVABLE FURNISHINGS
All movable furnishings to be provided and installed by owner

SUBTOTAL NIC

TOTAL - FURNISHINGS \$138,180

SPECIAL CONSTRUCTION F10

F10 SPECIAL CONSTRUCTION

SUBTOTAL

TOTAL - SPECIAL CONSTRUCTION

SELECTIVE BUILDING DEMOLITION

F2010 BUILDING ELEMENTS DEMOLITION

Remove existing closure 9,870 sf 98,700 10.00 Remove existing roofing sf34,000 5.00 170,000 Gut demolition 34,000 sf10.00 340,000

SUBTOTAL 608,700

F2020 HAZARDOUS COMPONENTS ABATEMENT

See main summary for HazMat allowance See Summary

SUBTOTAL

TOTAL - SELECTIVE BUILDING DEMOLITION \$608,700

> SUBTOTAL \$11,106,019



CODE DESCRIPTION QTY UNIT COST TOTAL COST

G.2 FIELDHOUSE - ADD/RENOVATION OPTION 6

GROSS FLOOR AREA CALCULATION

Reno 34,000 New Addition 600

TOTAL GROSS FLOOR AREA (GFA) 34,600 sf

FOUNDATIONS A10

A1010 STANDARD FOUNDATIONS

New foundations 600 sf40.00 24,000

SUBTOTAL 24,000

A1020 SPECIAL FOUNDATIONS

 ${\bf SUBTOTAL}$

A1030 LOWEST FLOOR CONSTRUCTION

New SOG 600 sf 20.00 12,000

SUBTOTAL 12,000

TOTAL - FOUNDATIONS \$36,000

A20 BASEMENT CONSTRUCTION

A2010 BASEMENT EXCAVATION

No Work in this section SUBTOTAL

A2020 BASEMENT WALLS

No Work in this section ${\bf SUBTOTAL}$

TOTAL - BASEMENT CONSTRUCTION

B10 SUPERSTRUCTURE

B1010 FLOOR CONSTRUCTION

SUBTOTAL

B1020 ROOF CONSTRUCTION

STRUCTURAL STEEL FRAMING

Modify existing framing 150,000.00 NR ls

Decking

3" galvanized metal deck, acoustic; assume all new 34,600 sf 12.00 NR

FIREPROOFING/FIRESTOPPING 078100

> Fireproofing to columns, beams and deck; 1 hr - includes NR 34,600 sf 5.00

Intumescent

SUBTOTAL

TOTAL - SUPERSTRUCTURE

B20 EXTERIOR CLOSURE

B2010 EXTERIOR WALLS 23,030 Total closure area **Exterior Wall Area** 18,424 sf total area solid

New headhouse for ductwork ls 40,000.00 40,000

SUBTOTAL 40,000

B2020 WINDOWS





CODE DESCRIPTION QTY UNIT COST TOTAL COST

G.2 FIELDHOUSE - ADD/RENOVATION OPTION 6

SUBTOTAL

B2030 EXTERIOR DOORS

Vestibule doors

ls 15,000.00 15,000

SUBTOTAL 15,000

TOTAL - EXTERIOR CLOSURE \$55,000

*B*30 ROOFING

SUBTOTAL

B3020 ROOF OPENINGS

SUBTOTAL

TOTAL - ROOFING

INTERIOR CONSTRUCTION C10

C1010 PARTITIONS

MASONRY 040001

> Allowance for masonry partitions ls 5,000.00 5,000

SUBTOTAL 5,000

C1020 INTERIOR DOORS

Doors, frames, hardware; complete lvs 3,500.00 14,000

SUBTOTAL 14,000

C1030 SPECIALTIES / MILLWORK

101400 SIGNAGE

Room identification, directional & safety signage, building directory ls 1,000.00 1,000

+ environmental graphics

102800 TOILET ACCESSORIES

Toilet accessories/compartments 3,000 1,500.00 rms

4,000

TOTAL - INTERIOR CONSTRUCTION \$23,000

C30 INTERIOR FINISHES

C3010 WALL FINISHES

Wall finishes complete package 600 gsf 15.00 9,000

SUBTOTAL 9,000

C3020 FLOOR FINISHES

Flooring 600 40.00 24,000

SUBTOTAL 24,000

C3030 CEILING FINISHES

Ceiling finishes; paint exposed structure 3.00 1,800 gsf 600

SUBTOTAL 1,800

CONVEYING SYSTEMS

TOTAL - INTERIOR FINISHES

D1010 ELEVATOR

SUBTOTAL

D10

\$34,800



CSI				UNIT	EST'D	SUB	TOTAL	l
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST	l

G.2 FIELDHOUSE - ADD/RENOVATION OPTION 6

TOTAL - CONVEYING SYSTEMS

D20 PLUMBING

D20 PLUMBING, GENERALLY

Plumbing package complete 600 gsf 40.00 24,000

SUBTOTAL 24,000

TOTAL - PLUMBING \$24,000

D30 HVAC

D30 HVAC, GENERALLY

Replace existing 25,000 cfm 750,000.00 750,000 Clean ductwork 34,000 gsf 1.00 34,000 New DDC controls 34,000 gsf 5.00 170,000 HVAC System at addition 600 gsf 50.00 30,000

SUBTOTAL 984,000

TOTAL - HVAC \$984,000

D40 FIRE PROTECTION

D40 FIRE PROTECTION, GENERALLY

Fire Equipment

Sprinkler system; complete **600** gsf 9.00 5,400

SUBTOTAL 5,400

TOTAL - FIRE PROTECTION \$5,400

D50 ELECTRICAL

D5010 ELECTRICAL SYSTEMS

 Equipment Wiring

 Feeders + Electrical to equipment
 600 gsf
 7.00 4,200

SUBTOTAL 4,200

D5020 LIGHTING & POWER

Lighting, Controls + Power **600** gsf 12.00 7,200 SUBTOTAL 7,200

D5030 COMMUNICATION & SECURITY SYSTEMS

 Telecommunications/PA + Clock
 600
 gsf
 4.00
 2,400

 Fire Alarm
 600
 gsf
 3.00
 1,800

 Security System
 600
 gsf
 10.00
 6,000

SUBTOTAL 10,200

D5040 OTHER ELECTRICAL SYSTEMS

Common Work Results for Electrical Misc. demolition work $\operatorname{\mathsf{gsf}}$ 600 0.25 150 Temp power and lights gsf 720 600 1.20 Seismic restraints/Coordination/misc. gsf 600 1.00 600

SUBTOTAL 1,470

TOTAL - ELECTRICAL

E10 EQUIPMENT

E10 EQUIPMENT, GENERALLY

SUBTOTAL -

TOTAL - EQUIPMENT

\$23,070



PSR Options Cost Estimate

exington High School 07-Oct-24

CSI UNIT EST'D SUB TOTAL

CSI UNIT EST'D SUB TOTAL
CODE DESCRIPTION QTY UNIT COST COST TOTAL COST

G.2 FIELDHOUSE - ADD/RENOVATION OPTION 6

E20 FURNISHINGS

E2010 FIXED FURNISHINGS

SUBTOTAL -

E2020 MOVABLE FURNISHINGS

All movable furnishings to be provided and installed by owner

SUBTOTAL NIC

TOTAL - FURNISHINGS

F10 SPECIAL CONSTRUCTION

F10 SPECIAL CONSTRUCTION

PEMB **600** gsf 100.00 60,000

SUBTOTAL 60,000

TOTAL - SPECIAL CONSTRUCTION \$60,000

F20 SELECTIVE BUILDING DEMOLITION

F2010 BUILDING ELEMENTS DEMOLITION

SUBTOTAL -

F2020 HAZARDOUS COMPONENTS ABATEMENT

See main summary for HazMat allowance See Summary

SUBTOTAL

TOTAL - SELECTIVE BUILDING DEMOLITION

SUBTOTAL \$1,245,270

GFA

34,600