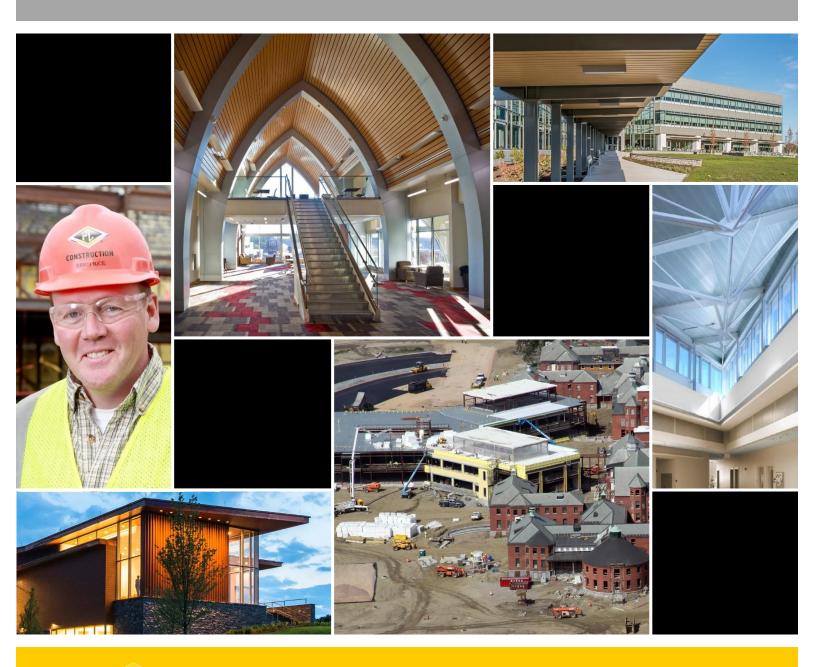
# City of Dover, New Hampshire Dover High School & Career Technical Center DOVER SCHOOL DISTRICT

June 23, 2015





Schematic Design Estimate



AT PC WE GO ABOVE AND BEYOND ON EVERY JOB, PERIOD.

June 23, 2015

Dr. Elaine M. Arbour, Ed.D., Superintendent of Schools The Dover School District – School Administrative Unit #11 McConnell Center 61 Locust Street, Suite 409 Dover, New Hampshire 03820-4132

Re: Dover School District – Dover High School & Career Technical Center

PC Project #15027

Dear Dr. Arbour:

On behalf of the entire PC Construction team, thank you for the opportunity to provide preconstruction services to support your project. We have developed Schematic Design estimates for three program options as follows:

	Core Project	Selected Project	
	Cost Elements	Cost Drivers *	<b>Total Construction Cost</b>
Option 1: Complete Renovation -	\$57,185,564	\$7,232,436	\$64,418,000
Option 2: Partial Renovation with Addition -	\$61,305,794	\$6,144,206	\$67,450,000
Option 3: All New Construction -	\$64,292,001	\$7,300,999	\$71,593,000

<sup>\*</sup>Selected Project Cost Drivers include aggregate piers with associated slab-on-grade, asbestos abatement, turf football field, kitchen equipment, modular classroom rental, baseball field work, stage lighting, linoleum (in lieu of VCT) and courtyard landscaping.

The enclosed estimates are based on information provided by your team and the designs from HMFH Architects. Pricing is outlined in the List of Documents and further defined in the Scope of Work/Clarifications.

It has been a pleasure working with you and your team during the development of these estimates. We are available at your convenience to review our estimates and answer any questions you may have. We look forward to working with the Dover School District and your entire team on this exciting project.

Sincerely,

Joseph Picoraro Vice President

cc: Scott Eastman
Jay Fayette



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Option 2: Partial Renovation with Addition

Option 3: New Construction

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#### **OPTION 1 - Complete Renovation**

#### **ESTIMATE SUMMARY**

Project #: 15027 Building GSF: 268,330

				Totals
Direct Cost		%	\$	49,932,184
	M ( 1101 T (N/A)	0.000/	Φ.	
	Material Sales Tax (N/A)	0.00%	\$	-
	Labor & Material Escalation (Years 3 through 6)	3.00%	\$	6,266,929
Gross Cost			\$	56,199,113
	Building Permit - by Owner	0.00%	\$	-
	Builder's Risk insurance	0.07%	\$	43,993
	Liability Insurance	0.75%	\$	483,135
	Construction Manager's Contingency	10.00%	\$	5,619,911
	P & P Bond (\$7.77 per \$1,000)		\$	500,528
	Sub Total		\$	62,846,680
	CM Fee	2.50%	\$	1,571,167
Total			\$	64,418,000
Total Cost p	er square foot		\$	240



Job #: 15027

Project Size: 268,330 SF

Recap - With Taxes and Insurance

Item Description	Quantity	UM	Total	Total
Code			UnitCost	Cost
Ontion 4 Complete Benevetien				
Option 1 - Complete Renovation				
A10 - FOUNDATIONS				1,725,883
B10 - SUPERSTRUCTURE				846,199
B20 - EXTERIOR CLOSURE				3,424,367
B30 - ROOFING				361,327
C10 - INTERIOR CONSTRUCTION				3,999,625
C20 - STAIRCASES				123,729
C30 - INTERIOR FINISHES				3,971,902
D10 - CONVEYING SYSTEMS				199,423
D20 - PLUMBING				2,359,536
D30 - HVAC				8,870,778
D40 - FIRE PROTECTION				970,299
D50 - ELECTRICAL				7,157,151
E10 - EQUIPMENT				509,818
E20 - FURNISHINGS				211,477
F10 - SPECIAL CONSTRUCTION				16,574
F20 - SELECTIVE BUILDING DEMOLITION				2,123,957
G10 - SITE PREPARATION				99,328
G20 - SITE IMPROVEMENTS				788,722
G30 - SITE UTILITIES				228,929
Z10 - GENERAL				7,492,992
Z20 - MAJOR CUSTOM PROGRAM ELEMEN				4,450,166
* Total Option 1 - Complete Renovation				49,932,184
Total Gross Cost				49,932,184
		•	,	, , ,



Job #: 15027

Project Size: 268,330 SF Detail - With Taxes and Insurance

	Description	Quantity	UM	Total UnitCost	Total Cost
ntion 1	- Complete Renovation				
•	DUNDATIONS				
-					
	- STANDARD FOUNDATIONS			10.10	
	Structure Excavation (AT, AC, BT)	900.00	CY	12.13	10,915
	Structure Excavation (Barn Addition)	300.00	CY	12.13	3,638
	BF Frost Wall w/ Crushed Stone (AT, AC, BT)	600.00	CY	42.51	25,506
2220.335	BF Frost Wall w/ Crushed Stone (Barn	180.00	CY	42.51	7,652
	Addition)				
2220.340	BF Frost Wall w/ On Site Matl (AT, AC, BT)	300.00	CY	17.51	5,253
	BF Frost Wall w/ On Site Matl (Barn Addition)	180.00	CY	17.51	3,152
	8" x 16" Continuous Footing (Barn Addition)	294.00	LF	38.00	11,172
3300.012	1' x 2' Continuous Footing (AT, AC, BT)	852.00	LF	45.00	38,340
3300.020	1' x 3' Grade Beam	3,100.00	LF	52.00	161,200
3300.028	1' x 3' Grade Beam - At H Piles	2,578.00	LF	52.00	134,056
3300.040	8" x 5' Frost Wall (Barn Addition)	294.00	LF	124.00	36,456
	12" x 5' Frost Wall (AT, AC, BT)	852.00	LF	151.00	128,652
	18" x 4' Concrete Pier with 2' x 2' x 1' Footing	14.00	EA	321.92	4,507
	(50' Dia Riding RIng)				,
7110.100	Damproof Frost Wall (AT, AC, BT)	2,862.00	SF	1.50	4,293
	Damproof Frost Wall (Barn Addition)	1,323.00	SF	1.50	1,985
	Rigid Insulation - 2" Frost Wall (AT, AC, BT)	3,160.00	SF	2.08	6,585
	Rigid Insulation - 2" Frost Wall (Barn Addition)	1,323.00	SF	2.08	2,757
	10 - STANDARD FOUNDATIONS	1,020.00	01	2.00	586,118
					300,110
A1020	- SPECIAL FOUNDATIONS				
2080.500	Temp Shoring of 1967 Wing Structure to	10,800.00	SF	11.00	118,800
	replace pile caps & grade beams	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			1,111
2490.105	HP10 Steel Piles - 30' Grid, 3 per location: 84	2,520.00	LF	60.00	151,200
	@ 30' Deep (AT,AC, BT)	_,======			101,200
2490 110	Drilled Micro Piles - 30' Grid, 4 per location:	1,440.00	LF	85.00	122,400
2100.110	210 @ 30' Deep (1967 Wing)	1,110.00		00.00	122, 100
* Total A103	20 - SPECIAL FOUNDATIONS				392,400
					302, 100
	- LOWEST FLOOR CONSTRUCTION				
A1030	- LOWLOTT LOOK CONCINCOTIC	N			
	Crushed Stone Under Slab - 8" (AT, AC, BT)	700.00	CY	42.51	29,757
2220.332			CY CY	42.51 42.51	29,757 8,502
2220.332 2220.332	Crushed Stone Under Slab - 8" (AT, AC, BT) Crushed Stone Under Slab - 8" (Barn Addition)	700.00 200.00	CY		8,502
2220.332 2220.332	Crushed Stone Under Slab - 8" (AT, AC, BT) Crushed Stone Under Slab - 8" (Barn Addition) 15 Mil Stego Wrap Under Slab Vapor Barrier -	700.00		42.51	
2220.332 2220.332 3250.451	Crushed Stone Under Slab - 8" (AT, AC, BT) Crushed Stone Under Slab - 8" (Barn Addition) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams	700.00 200.00 46,000.00	CY SF	42.51	8,502 32,793
2220.332 2220.332 3250.451	Crushed Stone Under Slab - 8" (AT, AC, BT) Crushed Stone Under Slab - 8" (Barn Addition) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams 15 Mil Stego Wrap Under Slab Vapor Barrier -	700.00 200.00	CY	42.51 0.71	8,502
2220.332 2220.332 3250.451 3250.451	Crushed Stone Under Slab - 8" (AT, AC, BT) Crushed Stone Under Slab - 8" (Barn Addition) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams (AT, AC, BT)	700.00 200.00 46,000.00 22,650.00	CY SF SF	42.51 0.71 0.71	8,502 32,793 16,147
2220.332 2220.332 3250.451 3250.451	Crushed Stone Under Slab - 8" (AT, AC, BT) Crushed Stone Under Slab - 8" (Barn Addition) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams (AT, AC, BT) 15 Mil Stego Wrap Under Slab Vapor Barrier -	700.00 200.00 46,000.00	CY SF	42.51 0.71	8,502 32,793
2220.332 2220.332 3250.451 3250.451	Crushed Stone Under Slab - 8" (AT, AC, BT) Crushed Stone Under Slab - 8" (Barn Addition) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams (AT, AC, BT) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams (Barn Addition)	700.00 200.00 46,000.00 22,650.00 6,710.00	CY SF SF SF	42.51 0.71 0.71 0.71	8,502 32,793 16,147 4,784
2220.332 2220.332 3250.451 3250.451 3300.008	Crushed Stone Under Slab - 8" (AT, AC, BT) Crushed Stone Under Slab - 8" (Barn Addition) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams (AT, AC, BT) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams (Barn Addition) 10" SOG - (AT, AC, BT)	700.00 200.00 46,000.00 22,650.00 6,710.00 21,574.00	CY SF SF SF	42.51 0.71 0.71 0.71 14.00	8,502 32,793 16,147 4,784 302,049
2220.332 2220.332 3250.451 3250.451 3250.451 3300.008 3300.008	Crushed Stone Under Slab - 8" (AT, AC, BT) Crushed Stone Under Slab - 8" (Barn Addition) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams (AT, AC, BT) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams (Barn Addition) 10" SOG - (AT, AC, BT) 10" SOG - (Drilled Micro Pile Areas)	700.00 200.00 46,000.00 22,650.00 6,710.00 21,574.00 10,800.00	CY SF SF SF SF SF	42.51 0.71 0.71 0.71 14.00 14.00	8,502 32,793 16,147 4,784 302,049 151,206
2220.332 2220.332 3250.451 3250.451 3250.451 3300.008 3300.008 3300.008	Crushed Stone Under Slab - 8" (AT, AC, BT) Crushed Stone Under Slab - 8" (Barn Addition) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams (AT, AC, BT) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams (Barn Addition) 10" SOG - (AT, AC, BT) 10" SOG - (Drilled Micro Pile Areas) 5" SOG - (Barn Addition)	700.00 200.00 46,000.00 22,650.00 6,710.00 21,574.00 10,800.00 6,100.00	CY SF SF SF SF SF SF	42.51 0.71 0.71 0.71 14.00 14.00 8.71	8,502 32,793 16,147 4,784 302,049 151,206 53,133
2220.332 2220.332 3250.451 3250.451 3250.451 3300.008 3300.008 3300.008 3300.012	Crushed Stone Under Slab - 8" (AT, AC, BT) Crushed Stone Under Slab - 8" (Barn Addition) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams (AT, AC, BT) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams (Barn Addition) 10" SOG - (AT, AC, BT) 10" SOG - (Drilled Micro Pile Areas) 5" SOG - (Barn Addition) Alter Auditorium Floor for ADA compliance	700.00 200.00 46,000.00 22,650.00 6,710.00 21,574.00 10,800.00 6,100.00 15,500.00	CY SF SF SF SF SF SF	42.51 0.71 0.71 0.71 14.00 14.00 8.71 8.71	8,502 32,793 16,147 4,784 302,049 151,206 53,133 135,011
2220.332 2220.332 3250.451 3250.451 3250.451 3300.008 3300.008 3300.012 7200.108	Crushed Stone Under Slab - 8" (AT, AC, BT) Crushed Stone Under Slab - 8" (Barn Addition) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams (AT, AC, BT) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams (Barn Addition) 10" SOG - (AT, AC, BT) 10" SOG - (Drilled Micro Pile Areas) 5" SOG - (Barn Addition) Alter Auditorium Floor for ADA compliance Rigid Insulation - 2" Underslab (Barn Addition)	700.00 200.00 46,000.00 22,650.00 6,710.00 21,574.00 10,800.00 6,100.00	CY SF SF SF SF SF SF	42.51 0.71 0.71 0.71 14.00 14.00 8.71	8,502 32,793 16,147 4,784 302,049 151,206 53,133 135,011 13,982
2220.332 2220.332 3250.451 3250.451 3250.451 3300.008 3300.008 3300.012 7200.108 * Total A103	Crushed Stone Under Slab - 8" (AT, AC, BT) Crushed Stone Under Slab - 8" (Barn Addition) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams (AT, AC, BT) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams (Barn Addition) 10" SOG - (AT, AC, BT) 10" SOG - (Drilled Micro Pile Areas) 5" SOG - (Barn Addition) Alter Auditorium Floor for ADA compliance Rigid Insulation - 2" Underslab (Barn Addition) 80 - LOWEST FLOOR CONSTRU	700.00 200.00 46,000.00 22,650.00 6,710.00 21,574.00 10,800.00 6,100.00 15,500.00	CY SF SF SF SF SF SF	42.51 0.71 0.71 0.71 14.00 14.00 8.71 8.71	8,502 32,793 16,147 4,784 302,049 151,206 53,133 135,011 13,982 747,366
2220.332 2220.332 3250.451 3250.451 3250.451 3300.008 3300.008 3300.012 7200.108	Crushed Stone Under Slab - 8" (AT, AC, BT) Crushed Stone Under Slab - 8" (Barn Addition) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams (AT, AC, BT) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams (Barn Addition) 10" SOG - (AT, AC, BT) 10" SOG - (Drilled Micro Pile Areas) 5" SOG - (Barn Addition) Alter Auditorium Floor for ADA compliance Rigid Insulation - 2" Underslab (Barn Addition)	700.00 200.00 46,000.00 22,650.00 6,710.00 21,574.00 10,800.00 6,100.00 15,500.00	CY SF SF SF SF SF SF	42.51 0.71 0.71 0.71 14.00 14.00 8.71 8.71	8,502 32,793 16,147 4,784 302,049 151,206 53,133 135,011 13,982
2220.332 2220.332 3250.451 3250.451 3250.451 3300.008 3300.008 3300.012 7200.108 * Total A103	Crushed Stone Under Slab - 8" (AT, AC, BT) Crushed Stone Under Slab - 8" (Barn Addition) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams (AT, AC, BT) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams (Barn Addition) 10" SOG - (AT, AC, BT) 10" SOG - (Drilled Micro Pile Areas) 5" SOG - (Barn Addition) Alter Auditorium Floor for ADA compliance Rigid Insulation - 2" Underslab (Barn Addition) 80 - LOWEST FLOOR CONSTRU FOUNDATIONS	700.00 200.00 46,000.00 22,650.00 6,710.00 21,574.00 10,800.00 6,100.00 15,500.00	CY SF SF SF SF SF SF	42.51 0.71 0.71 0.71 14.00 14.00 8.71 8.71	8,502 32,793 16,147 4,784 302,049 151,206 53,133 135,011 13,982 747,366
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2220.332 2220.332 3250.451 3250.451 3250.451 3300.008 3300.008 3300.012 7200.108 * Total A103 Total A10 - SU B10 - SU B1010 5010.000	Crushed Stone Under Slab - 8" (AT, AC, BT) Crushed Stone Under Slab - 8" (Barn Addition) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams (AT, AC, BT) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams (Barn Addition) 10" SOG - (AT, AC, BT) 10" SOG - (Drilled Micro Pile Areas) 5" SOG - (Barn Addition) Alter Auditorium Floor for ADA compliance Rigid Insulation - 2" Underslab (Barn Addition) 30 - LOWEST FLOOR CONSTRU FOUNDATIONS  JPERSTRUCTURE - FLOOR CONSTRUCTION Reinforce existing structural steel (1967 Wing, 10,800 SF/FIr totalling 32,400 SF) 4 lbs/sf	700.00 200.00 46,000.00 22,650.00 6,710.00 21,574.00 10,800.00 6,100.00 15,500.00 6,710.00	CY SF SF SF SF SF SF SF	42.51 0.71 0.71 0.71 14.00 14.00 8.71 8.71 2.08	8,502 32,793 16,147 4,784 302,049 151,206 53,133 135,011 13,982 747,366 1,725,883
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2220.332 2220.332 3250.451 3250.451 3250.451 3300.008 3300.008 3300.012 7200.108 * Total A103 Total A10 - SU B1010 5010.000	Crushed Stone Under Slab - 8" (AT, AC, BT) Crushed Stone Under Slab - 8" (Barn Addition) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams (AT, AC, BT) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams (Barn Addition) 10" SOG - (AT, AC, BT) 10" SOG - (Drilled Micro Pile Areas) 5" SOG - (Barn Addition) Alter Auditorium Floor for ADA compliance Rigid Insulation - 2" Underslab (Barn Addition) 30 - LOWEST FLOOR CONSTRU FOUNDATIONS  JPERSTRUCTURE - FLOOR CONSTRUCTION Reinforce existing structural steel (1967 Wing, 10,800 SF/FIr totalling 32,400 SF) 4 lbs/sf	700.00 200.00 46,000.00 22,650.00 6,710.00 21,574.00 10,800.00 6,100.00 15,500.00 6,710.00	CY SF SF SF SF SF SF SF	42.51 0.71 0.71 0.71 14.00 14.00 8.71 8.71 2.08	8,502 32,793 16,147 4,784 302,049 151,206 53,133 135,011 13,982 747,366 1,725,883
2220.332 2220.332 3250.451 3250.451 3250.451 3300.008 3300.008 3300.012 7200.108 * Total A103 Total A10 - SU B1010 5010.000 7850.001	Crushed Stone Under Slab - 8" (AT, AC, BT) Crushed Stone Under Slab - 8" (Barn Addition) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams (AT, AC, BT) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams (Barn Addition) 10" SOG - (AT, AC, BT) 10" SOG - (Drilled Micro Pile Areas) 5" SOG - (Barn Addition) Alter Auditorium Floor for ADA compliance Rigid Insulation - 2" Underslab (Barn Addition) 30 - LOWEST FLOOR CONSTRU FOUNDATIONS  JPERSTRUCTURE - FLOOR CONSTRUCTION Reinforce existing structural steel (1967 Wing, 10,800 SF/FIr totalling 32,400 SF) 4 lbs/sf Spray Fireproofing - Structural Steel	700.00 200.00 46,000.00 22,650.00 6,710.00 21,574.00 10,800.00 6,100.00 15,500.00 6,710.00	CY SF SF SF SF SF SF SF SF SF	42.51 0.71 0.71 0.71 14.00 14.00 8.71 8.71 2.08	8,502 32,793 16,147 4,784 302,049 151,206 53,133 135,011 13,982 747,366 1,725,883
2220.332 2220.332 3250.451 3250.451 3250.451 3300.008 3300.008 3300.012 7200.108 * Total A103 Total A10 - St B10 - St B1010 5010.000 7850.001 7850.010 * Total B101	Crushed Stone Under Slab - 8" (AT, AC, BT) Crushed Stone Under Slab - 8" (Barn Addition) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams (AT, AC, BT) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams (Barn Addition) 10" SOG - (AT, AC, BT) 10" SOG - (Drilled Micro Pile Areas) 5" SOG - (Barn Addition) Alter Auditorium Floor for ADA compliance Rigid Insulation - 2" Underslab (Barn Addition) 80 - LOWEST FLOOR CONSTRU FOUNDATIONS  JPERSTRUCTURE - FLOOR CONSTRUCTION Reinforce existing structural steel (1967 Wing, 10,800 SF/Fir totalling 32,400 SF) 4 lbs/sf Spray Fireproofing - Structural Steel Spray Fireproofing - at new bracing only 10 - FLOOR CONSTRUCTION	700.00 200.00 46,000.00 22,650.00 6,710.00 21,574.00 10,800.00 6,100.00 15,500.00 6,710.00	CY SF SF SF SF SF SF SF SF SF	42.51 0.71 0.71 0.71 14.00 14.00 8.71 8.71 2.08	8,502 32,793 16,147 4,784 302,049 151,206 53,133 135,011 13,982 747,366 1,725,883
2220.332 2220.332 3250.451 3250.451 3250.451 3300.008 3300.008 3300.012 7200.108 * Total A10 5010.000 7850.001 7850.010 * Total B10* B1020	Crushed Stone Under Slab - 8" (AT, AC, BT) Crushed Stone Under Slab - 8" (Barn Addition) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams (AT, AC, BT) 15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams (Barn Addition) 10" SOG - (AT, AC, BT) 10" SOG - (Drilled Micro Pile Areas) 5" SOG - (Barn Addition) Alter Auditorium Floor for ADA compliance Rigid Insulation - 2" Underslab (Barn Addition) 30 - LOWEST FLOOR CONSTRU FOUNDATIONS  JPERSTRUCTURE - FLOOR CONSTRUCTION Reinforce existing structural steel (1967 Wing, 10,800 SF/FIr totalling 32,400 SF) 4 lbs/sf Spray Fireproofing - Structural Steel Spray Fireproofing - at new bracing only	700.00 200.00 46,000.00 22,650.00 6,710.00 21,574.00 10,800.00 6,100.00 15,500.00 6,710.00	CY SF SF SF SF SF SF SF SF SF	42.51 0.71 0.71 0.71 14.00 14.00 8.71 8.71 2.08	8,502 32,793 16,147 4,784 302,049 151,206 53,133 135,011 13,982 747,366 1,725,883



Job #: 15027

Project Size: 268,330 SF Detail - With Taxes and Insurance

Item Code	Description	Quantity	UM	Total UnitCost	Total Cost	
Code				Unitoust	Cost	
5300.205	1-1/2"X20ga Galv Mtl Deck (AT, AC, BT)	23,731.00	SF	1.70	40,343	
6000.500	Roof Trusses w/ sheathing (Barn Addition)	6,100.00	SF	8.00	48,800	
	Pavilion Framing (50' Dia Riding Ring)	3,300.00	SF	18.38	60,657	
	Entrance Canopy	1.00	EA	45,000.00	45,000	
	Entrance Canopy - Premium	1.00	EA	40,000.00	40,000	
	- ROOF CONSTRUCTION			10,000.00	276,199	
	SUPERSTRUCTURE				846,199	
D20 EV	TERIOR CLOSURE				·	
	- EXTERIOR WALLS					
		40 700 00	05	04.00	205.000	
	Brick Veneer (AT, AC, BT)	12,720.00	SF	24.00	305,280	
	10" CMU Partitions - 20' Ht (AT, AC, BT)	17,040.00	SF	12.00	204,480	
4020.460	Repair/Repoint existing masonry veneer (Locations unknown)	15,000.00	SF	18.00	270,000	
6100 612	2x6 Partitions w/ 1/2" OSB Sheathing - 12' Ht	3,880.00	SF	4.60	17,836	
0100.012	(Barn Addition)	3,000.00	OI .	4.00	17,030	
6200.512	T&G Siding - Red Cedar (6" Exposure) (Barn	3,880.00	SF	8.00	31,036	
	Addition)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			,,,,,	
7210.806	3" Spray Foam Insulation (R-21) (Existing	46,000.00	SF	3.00	138,000	
	Building)					
	3" Spray Foam Insulation (R-21) (AT,AC, BT)	12,720.00	SF	3.00	38,160	
7260.120	Air Infiltration Barrier - Spray-On / Roll-On (AT,	12,720.00	SF	3.00	38,160	
9280 031	AC, BT) 3-5/8 LGS w/ abuse resistant GWB Back-up	13,992.00	SF	8.11	113,510	
3200.001	(AT, AC, BT)	10,002.00	OI .	0.11	110,010	
*** Total B201	0 - EXTERIOR WALLS				1,156,462	
					, ,	
	- WINDOWS	00 000 00	05	75.00	0.400.000	
	Curtainwall	28,000.00	SF	75.00	2,100,000	
	4x8 Storefront Windows (AT, AC, BT)	12.00	EA	1,760.00	21,120	
	Barn Windows (Barn Addition)	10.00	EA	600.00	6,000	
*** Total B202	0 - WINDOWS				2,127,120	
B2030	- EXTERIOR DOORS					
6200.300	Sliding Barn Door (Barn Addition)	3.00	EA	1,788.76	5,366	
	3070 Exterior Door	16.00	EA	1,404.76	22,476	
	3070 HM Door (Barn Additon)	8.00	EA	1,104.76	8,838	
	3070 HM Door Frame (AT, AC, BT)	12.00	EA	1,104.76	13,257	
	6070 Exterior Door	13.00	EA	2,065.16	26,847	
		6.00				
	Overhead Door (AT, AC, BT)		EA	8,000.00	48,000	
	Overhead Door (Loading Dock & Woodshop)	2.00	EA	8,000.00	16,000	
	0 - EXTERIOR DOORS				140,785	
^^   otal B20 -	EXTERIOR CLOSURE				3,424,367	
B30 - RC	OOFING					
B3010	- ROOF COVERINGS					
7200.015	12" Batt Insulation (R38) (Barn Addition)	8,020.00	SF	1.15	9,217	
	Asphalt Single Roof (50' Dia Riding Ring)	3,300.00	SF	5.79	19,119	
	Asphalt Single Roof (Barn Addition)	8,020.00	SF	5.79	46,465	
	Thermoplastic Membrane Roof	*,*=****	SF	10.00	,	
	Thermoplastic Membrane Roof (AT, AC, BT)	21,574.00	SF	0.50	10,787	
	Thermoplastic Membrane Roof (AT, AC, BT)	21,574.00	SF	10.00	215,740	
	Roof Canopy	1.00	LS	60,000.00	60,000	
	D - ROOF COVERINGS	1.00	LO	00,000.00	361,327	
** Total B30 - I					361,327 361,327	
					301,321	
	TERIOR CONSTRUCTION					
	- PARTITIONS	4.00				
	In Wall Blocking	1.00	LS	50,000.00	50,000	
	In Wall Blocking	1.00	LS	24,437.84	24,438	
8800.000	Glazed Partitions	2,200.00	SF	60.00	132,000	



Job #: 15027

Project Size: 268,330 SF Detail - With Taxes and Insurance

Item Code	Description	Quantity	UM	Total UnitCost	Total Cost	
9270.001	Tape Gypsum Walls - Level 4 (String coat, 2	326,145.00	SF	0.75	244,609	
9280.030	finish coats, sanding) Classroom Fit Up (AT,AC,BT) 3 - 20'x20'	1,200.00	SF	30.00	36,000	
9280.030	classrooms Classroom Fit Up (Barn Addition) 2 -	450.00	SF	30.00	13,500	
0005 005	Classrooms	50 000 00	05	0.04	500.055	
	LGS Partitions (50% of existing building)	59,000.00	SF	8.61	508,055	
	LGS Furred Partition - Interior	9,500.00	SF	5.09	48,391	
	Fire Stopping	1.00	LS	18,000.00	18,000	
	Fire Stopping	1.00	LS	48,000.00	48,000	
	Misc Drywall Work	1.00	LS	35,000.00	35,000	
	Misc Drywall Work <b>0 - PARTITIONS</b>	1.00	LS	9,000.00	9,000 <b>1,166,993</b>	
	- INTERIOR DOORS				,,,,	
	3070 Interior Door	379.00	EA	1,204.76	456,604	
	6070 Interior Door	64.00	EA	1,765.16	112,970	
	Corridor Lock Down Hardware	1.00	LS	50,000.00	50,000	
	Interior Borrowed Lites	45.00	EA	609.52	27,428	
	Misc Painting - Door Frames, Misc Metals	1.00	LS	10,000.00	10,000	
	Misc Painting - Door Frames, Misc Metals	1.00	LS	40,000.00	40,000	
	0 - INTERIOR DOORS			10,000.00	697,003	
	- SPECIALTIES / MILLWORK					
	6'-0" Laminated Maple Bench	20.00	EA	992.58	19,852	
	Base Cabinets (Classrooms)	760.00	LF	266.10	202,239	
6400.052	Full Height Cabinets (Classrooms)	335.00	LF	306.10	102,545	
6400.052	Wall Cabinets (Classrooms)	559.00	LF	191.10	106,827	
	Full Height Cabinets (Mail Room)	24.00	LF	306.10	7,346	
6400.102	Restroom Wood Apron at Solid Surface	132.00	LF	159.92	21,109	
6400.300	Solid Surface Restroom Counter w/ integral sink	132.00	LF	221.90	29,291	
6400 308	Countertops-Solid Surface (Classrooms)	760.00	LF	191.10	145,239	
	Wall Mount Solid Surface Counter (Mail/Work	71.00	LF	216.10	15,343	
	Room)					
6400.315	Countertops - Epoxy Resin	468.00	LF	161.64	75,646	
6400.348	Solid Surface Window Sill and Apron (New Const Only)	1,785.00	LF	64.26	114,700	
6401.052	Wall Cabinets - Solid Surface (Science Labs)	351.00	LF	161.65	56,738	
6401.054	Full Height Cabinets - Solid Surface (Science Labs)	351.00	LF	255.73	89,760	
6405 006	Wood Cubbies - Mail Room	24.00	LF	251.10	6,026	
	Casework Allowance (Misc)	1.00	LS	231,000.00	231,000	
	Closet Shelving	1.00	LS	10,000.00	10,000	
	*** DESK MILLWORK***	1.00		10,000.00	10,000	
	Admin/Guidance Front Desk	31.00	LF	441.10	13,674	
	Library Desk	78.00	LF	491.10	38,306	
	FRP Panels 10' ht - Kitchen	3,518.00	SF	7.14	25,133	
	FRP Panels 8' ht - at Janitorial sinks only	1,510.22	SF	7.14	10,789	
	FRP Panels - Art Rooms	80.00	SF	7.14	572	
	Toilet Partitions W/ Door - Phenolic	34.00	EA	430.52	14,638	
	Urinal Screen - Phenolic	8.00	EA	305.52	2,444	
	Shower Door	18.00	EA	277.76	5,000	
	Locker Room Bench	80.00	LF LF	80.28	6,422	
	Privacy Curtain: Track W/Supports (No	64.00	LF LF	22.50	1,440	
	Curtain) - Nurse					
	Display & Trophy Case Allowance	1.00	LS	40,000.00	40,000	
10410.150	Sigange Sigange	1.00	LS	10,000.00	10,000	
		1.00	LS	78,000.00	78,000	



Job #: 15027

Project Size: 268,330 SF Detail - With Taxes and Insurance

	Description			Total	Total	
Code				UnitCost	Cost	
10500.002	Staff Lockers - Single Tier (3' X 15" X 15") - Kitchen	15.00	EA	227.76	3,416	
10500.002	Staff Lockers - Single Tier (3' X 15" X 15") - Staff	100.00	EA	227.76	22,776	
10500.004	Lockers - Double Tier (6' X 18" X 18") - Student	1,500.00	EA	317.76	476,640	
10500.006	Lockers - Double Tier - Locker Rooms (100 per Room)	200.00	EA	317.76	63,552	
	Lockers - Double Tier - Student Athletic	50.00	EA	317.76	15,888	
	Fire Extinguishers	80.00	EA	125.46	10,037	
	Fire Ext Cabinets	80.00	EA	302.76	24,221	
	Operable Wall Partition (57' L x 28' HT)		SF	99.95		
10800.106		30.00	EA	101.38	3,041	
	Surface Mtd Double Roll Tph	30.00	EA	197.38	5,921	
	Surface Mounted SND	16.00	EA	377.38	6,038	
	Surf Mtd Waste Receptacle	18.00	EA	282.38	5,083	
	Liquid Soap Dispenser	18.00	EA	177.38	3,193	
	Folding Shower Seat	18.00	EA	301.38	5,425	
	Electric Hand Dryer	16.00	EA	301.38	4,822	
	30"x30" Framed Mirror	26.00	EA	211.38	5,496	
	0 - SPECIALTIES / MILLWORK				2,135,630	
** Total C10 -	INTERIOR CONSTRUCTION				3,999,625	
C20 - ST	AIRCASES					
	- STAIR CONSTRUCTION					
		050.00		440.40	77.004	
	Hand Rail - Standard Metal Picket	650.00	LF	119.42	77,624	
	Steel Wallrail - Primed	650.00	LF	70.93	46,105	
** Total C20 -	0 - STAIR CONSTRUCTION				123,729	
Total G20 -	STAIRCASES				123,729	
C30 - IN	TERIOR FINISHES					
C3010	- WALL FINISHES					
	Wood Wall Finish - Auditorium	11,520.00	SF	25.00	288,000	
	Tile Wainscot - 4' AFF (Corridors)	15,000.00	SF	10.00	150,000	
	Tile Wainscot - 4' AFF (Town Square)	2,700.00	SF	10.00	27,000	
	Tile Wainscot - 4' AFF (Toilet Rooms)	4,100.00	SF	10.00	41,000	
	Tile Wainscot - Premium for 5' AFF	5,450.00	SF	10.00	54,500	
	everywhere including stairwells	•			,	
9900.100	Paint Interior Walls (AT, AC, BT)	21,360.00	SF	0.82	17,515	
	Paint Interior Walls (Barn Addition)	3,528.00	SF	0.82	2,893	
	Paint Walls	345,330.00	SF	0.85	293,531	
*** Total C301	0 - WALL FINISHES	·			874,439	
C2020	ELOOD EINIGHES					
	- FLOOR FINISHES	074.00		40.00	0.740	
	Tile Base	871.00	LF OF	10.00	8,710	
	Quarry Tile Floors - Culinary	3,315.00	SF	15.00	49,725	
	Quarry Tile Poors - Kitchen	4,527.00	SF LF	15.00	67,905	
	Quarry Tile Base	760.00		12.00	9,120	
	Mosaic Tile - Bath, Locker Rooms	5,175.00	SF	12.00	62,100	
	Wood Floor - Gym	13,710.00	SF	18.00	246,780	
	Wood Floor - Stage	2,620.00	SF	16.00	41,920	
	Linoleum Rubber Base	163,752.00	SF	6.00	982,512	
		35,167.00	LF	1.85	65,059	
	Replace Stone Treads (40% of existing)	2,328.00	SF	40.00	93,120	
	Carpet - Auditorium	1,722.00	SY	45.00	77,490	
	Carpet Tile	1,100.00	SY	35.00	38,500	
	Rubber Sports Flooring	4,158.00	SF	12.45	51,756	
	Moisture Mitigation	31,306.00	SF SF	8.00	40.050	
0000 400		5 L 5Ub UU	5E I	1.50	46,959	
9900.400		,			•	
	Sealed Concrete (AT, AC, BT)	21,574.00	SF	1.50	32,361	



Job #: 15027

Project Size: 268,330 SF Detail - With Taxes and Insurance

Item Code	Description	Quantity	UM	Total UnitCost	Total Cost	
	Sealed Concrete (Barn Addition)	6,100.00	SF	1.50	9,150	
	Paint Gym Floor Logo	1.00	LS	3,000.00	3,000	
12671.103	Walk-Off Foot Grilles (Alum Grid W/ Frame & Pan)	400.00	SF	72.08	28,831	
*** Total C302	0 - FLOOR FINISHES				1,914,998	
C3030	- CEILING FINISHES					
	Gypsum Ceiling: Suspended drywall grid 5/8" type X GWB (1 layer), taped (Ivl 4)	16,056.00	SF	5.31	85,211	
9285.039	Misc Drywall Soffits	1.00	LS	95,000.00	95,000	
9285.039	Misc Drywall Soffits	1.00	LS	35,000.00	35,000	
9500.100	ACT - Auditorium		SF	5.00		
9500.102	ACT	162,350.00	SF	4.00	649,400	
9500.104	ACT(Cleanable) - Kitchen	7,215.00	SF	8.00	57,720	
	24x24x5/8 Lay-In (AT, AC, BT)	1,200.00	SF	3.00	3,600	
	24x24x5/8 Lay-In (Barn Addition)	450.00	SF	3.00	1,350	
	Acoustical Wood Clouds - Auditorium	1.00	LS	40,000.00	40,000	
	Tectum Ceilng Panels - 2"	6,870.00	SF	8.00	54,960	
	Paint Ceilings	9,520.00	SF	0.85	8,092	
	Paint Exposed Ceiling Structure	53,550.00	SF	1.75	93,713	
	Paint exposed ceiling - Gym	13,710.00	SF	2.00	27,420	
	Paint exposed ceiling - Auditorium	15,500.00	SF	2.00	31,000	
	0 - CEILING FINISHES	10,000.00	Oi	2.00	1,182,465	
	INTERIOR FINISHES				3,971,902	
					3,371,302	
D10 - CC	ONVEYING SYSTEMS					
D1010	- ELEVATOR					
3300.008	12" Base Slab	128.00	SF	14.42	1,846	
	12" x 5' Foundation Wall	72.00	LF	128.35	9,241	
	Elevator Pit Misc Metals	2.00	EA	1,813.09	3,626	
	Drywall Partition	2,640.00	SF	9.36	24,710	
	Hydraulic Passenger Elevator (1 Ea)	4.00	STOP	40,000.00	160,000	
	0 - ELEVATOR	1.00	0.0.	10,000.00	199,423	
	CONVEYING SYSTEMS				199,423	
D20 - PL	UMBING					
	LUMBING					
	Domestic Water - Temporary Service -	1.00	LS	5,000.00	5,000	
	Modulars				·	
	Natural Gas - Temporary Service - Modulars	1.00	LS	3,500.00	3,500	
15401.320	Domestic Water Heater, Residential Gas-Fired (NG/P) Atmospheric, Foam Lined Tank, Vent Not Included, 100 Gal.	2.00	EA	1,863.51	3,727	
15401.338	Domestic Water Heater, Commercial Gas-	2.00	EA	20,205.11	40,410	
10 10 1.000	Fired (NG/P) Atmospheric, Std. Controls, Vent Not Included, 250 MBH Input, 245 GPH	2.00	2, (	20,200.11	10,110	
15401.554	Potable Water Storage Tank, Indoor, Glass- Lined PE, 605 Gal., 48" OD, 87" Long	1.00	EA	14,272.02	14,272	
15401.556	Round, Stainless Steel, 26 ga., 8" OD - Water Heater Vent	160.00	LF	28.50	4,560	
15410.208	Comm. Water Closet, Floor Mounted VC, Flush Valve, Bowl only, incl. Seat, w/Floor Outlet 1.28 gpf ADA	37.00	EA	760.73	28,147	
15410.210	Rough-In, Supply, Waste and Vent for Comm.	37.00	EA	697.37	25,803	
15410.404	Urinal, Wall Hung VC w/ Hanger and Valve,	6.00	EA	857.02	5,142	
15410.406	Rough-In, Supply, Waste and Vent for Wall Hung Urinal	6.00	EA	858.39	5,150	
15410.404	Rough-In, Supply, Waste and Vent for Comm. Floor Mounted WC Urinal, Wall Hung VC w/ Hanger and Valve, Water Saving 0.5 gpf Rough-In, Supply, Waste and Vent for Wall	6.00	EA	857.02	5,142	



Job #: 15027

Project Size: 268,330 SF Detail - With Taxes and Insurance

15410.640   Rough-In, Supply, Waste and Vent for Res.   244.00   EA   769.85	23,675 9,044 12,430 19,726 2,122	
Vanity Top Lavatories         15410.640       Rough-In, Supply, Waste and Vent for Salon	7,699 18,130 11,779 18,317 23,675 9,044 12,430 19,726 2,122	
15410.640 Rough-In, Supply, Waste and Vent for Salon Lavatories (no fixture)  15410.698 Sink w/Faucet and Drain, SS Self Rimming, 43"x22" Double Bowl  15410.702 Rough-In, Supply, Waste and Vent for Sinks 14.00 EA 841.37 15410.826 Laboratory Sink, Corrosion Resistant, 12"x12"x8" Sink, 14.5"x14.5" OD  15410.832 Rough-In, Supply, Waste and Vent for Laboratory Sinks  15410.834 Laboratory Faucet, Gooseneck Spout, Wrist Handles  15410.840 Service Sink, Floor (Corner), PE, 28"x28"  10.00 EA 769.85  14.00 EA 1,295.00  EA 841.37 88.00 EA 623.02  EA 623.02  EA 1,242.96  W/Rim Guard	18,130 11,779 18,317 23,675 9,044 12,430 19,726 2,122	
15410.698 Sink w/Faucet and Drain, SS Self Rimming, 43"x22" Double Bowl 15410.702 Rough-In, Supply, Waste and Vent for Sinks 14.00 EA 841.37 15410.826 Laboratory Sink, Corrosion Resistant, 38.00 EA 482.03 12"x12"x8" Sink, 14.5"x14.5" OD 15410.832 Rough-In, Supply, Waste and Vent for 38.00 EA 623.02 Laboratory Sinks 15410.834 Laboratory Faucet, Gooseneck Spout, Wrist 38.00 EA 238.01 Handles 15410.840 Service Sink, Floor (Corner), PE, 28"x28" 10.00 EA 1,242.96 w/Rim Guard	11,779 18,317 23,675 9,044 12,430 19,726 2,122	
15410.826 Laboratory Sink, Corrosion Resistant, 38.00 EA 482.03  12"x12"x8" Sink, 14.5"x14.5" OD  15410.832 Rough-In, Supply, Waste and Vent for 38.00 EA 623.02  Laboratory Sinks  15410.834 Laboratory Faucet, Gooseneck Spout, Wrist 38.00 EA 238.01  Handles  15410.840 Service Sink, Floor (Corner), PE, 28"x28" 10.00 EA 1,242.96  w/Rim Guard	18,317 23,675 9,044 12,430 19,726 2,122	
12"x12"x8" Sink, 14.5"x14.5" OD  15410.832 Rough-In, Supply, Waste and Vent for 38.00 EA 623.02 Laboratory Sinks  15410.834 Laboratory Faucet, Gooseneck Spout, Wrist 38.00 EA 238.01 Handles  15410.840 Service Sink, Floor (Corner), PE, 28"x28" 10.00 EA 1,242.96 w/Rim Guard	23,675 9,044 12,430 19,726 2,122	
Laboratory Sinks  15410.834 Laboratory Faucet, Gooseneck Spout, Wrist 38.00 EA 238.01  Handles  15410.840 Service Sink, Floor (Corner), PE, 28"x28" 10.00 EA 1,242.96  w/Rim Guard	9,044 12,430 19,726 2,122	
Handles  15410.840 Service Sink, Floor (Corner), PE, 28"x28" 10.00 EA 1,242.96  w/Rim Guard	12,430 19,726 2,122	
w/Rim Guard	19,726 2,122	
4F440 044 B     0	2,122	
15410.844 Rough-In, Supply, Waste and Vent for Floor 10.00 EA 1,972.62  Service Sink	*	
15411.101 Hose Bibb, Exterior Freeze-Proof, Lockable 20.00 EA 106.10		
15411.314 Stall Shower, One-Piece Fiberglass w/Three 18.00 EA 653.38  Walls, Drain Only, 32" Square	11,761	
15411.326 Thermostatic Valve for Shower 18.00 EA 585.00	10,530	
15411.328 Rough-In, Supply, Waste and Vent for Shower 18.00 EA 938.10	16,886	
15411.901 Emergency Shower, Single Head, Drench, Ball 8.00 EA 584.03  Valve, Pull Style, Freestanding, No Rough-In	4,672	
15411.908 Emergency Eyewash Fountain, SS Bowl, 8.00 EA 544.03 Pedestal Mount, No Rough-In	4,352	
15412.222 Electric Water Cooler, Wall Mounted, Full 10.00 EA 1,883.15  Recessed, SS, Bi-Level 15442.236 Revers la Corpute Most and Vent for Floating 10.00 EA 1,883.15	18,832	
15412.236 Rough-In, Supply, Waste and Vent for Electric 10.00 EA 564.12 Water Cooler	5,641	
15412.434 Floor Drain, Heavy Ducty, Galvanized 23.00 EA 1,135.69  W/Sediment Bucket, 12" OD Grate, 2"-6" Pipe  Size	26,121	
15412.730 Roof Drain, Integral Expansion Joint, 70.00 EA 1,081.02 Galvanized, 12" Dome, 4" Pipe Size	75,671	
15412.730 Roof Drain, Integral Expansion Joint, 70.00 EA 1,081.02 Galvanized, 12" Dome, 4" Pipe Size - Emergency	75,671	
15414.126 Water Meter, Bronze, Comm./Dom., Flanged, 2.00 EA 5,394.09 4" OD, 320 GPM	10,788	
15420.106 Copper Type L, Solder Joint W/Couplings And 13,100.00 LF 10.93 Hangers 10ft OC, 3/4" OD	143,127	
15420.108 Copper Type L, Solder Joint W/Couplings And 8,750.00 LF 14.34 Hangers 10ft OC, 1" OD	125,479	
15420.114 Copper Type L, Solder Joint W/Couplings And 3,900.00 LF 32.45 Hangers 10ft OC, 2" OD	126,555	
15420.118 Copper Type L, Solder Joint W/Couplings And 1,200.00 LF 77.68 Hangers 10ft OC, 3" OD	93,213	
15420.122 Copper Type L, Solder Joint W/Couplings And 400.00 LF 127.33 Hangers 10ft OC, 4" OD	50,932	
15421.104 Fiberglass 1" Insulation With All Service Jacket 13,100.00 LF 4.12 3/4" Pipe	53,977	
15421.106 Fiberglass 1" Insulation With All Service Jacket 8,750.00 LF 4.33 1" Pipe	37,848	
15421.204 Fiberglass 1-1/2" Insulation With All Service 3,900.00 LF G.06  Jacket 2" Pipe	23,636	
15421.208 Fiberglass 1-1/2" Insulation With All Service 1,200.00 LF 6.79  Jacket 3" Pipe	8,149	
15421.212 Fiberglass 1-1/2" Insulation With All Service 400.00 LF 8.04  Jacket 4" Pipe	3,216	



Job #: 15027

Project Size: 268,330 SF Detail - With Taxes and Insurance

Item	Description	Quantity	UM	Total	Total	
Code	Description	Quantity	OW	UnitCost	Cost	
				J		
15421.500	Valves and Accessories	1.00	LS	25,000.00	25,000	
15421.500	Valves and Accessories	1.00	LS	150,000.00	150,000	
	UG Hub & Spigot, CI, No Hangers, 6" Pipe	250.00	LF	53.47	13,368	
			LF			
	Casty Iron SW&V, Hangers 5' OC, 1-1/2" Pipe	5,750.00		18.61	107,019	
	Casty Iron SW&V, Hangers 5' OC, 2" Pipe	3,000.00	LF	22.45	67,350	
	Casty Iron SW&V, Hangers 5' OC, 4" Pipe	1,650.00	LF	31.69	52,290	
15440.382	Corrosion Resistant Pipe, Sch. 40	2,500.00	LF	25.61	64,024	
	Polypropylene, No Coupling/Hangers, 2" OD -	·			•	
	GW					
15440.386	Corrosion Resistant Pipe, Sch. 40	1,300.00	LF	46.16	60,006	
	Polypropylene, No Coupling/Hangers, 4" OD -					
	GW					
15440 500	Limestone Chip Acid Neutralizer - 200 Gallon	2.00	EA	17,500.00	35,000	
15/150 / 10	Sch40 PVC W/Couplings and Hangers, 10ft	500.00	LF	25.34	12,668	
13430.410		300.00	LI	25.54	12,000	
45450 440	OC, 4" OD	500.00		20.40	40.004	
15450.412	Sch40 PVC W/Couplings and Hangers, 10ft	500.00	LF	38.16	19,081	
	OC, 6" OD					
15460.100	Black Steel, Schedule 40, Threaded	5,600.00	LF	21.70	121,529	
	W/Couplings And Hangers, 10ft OC, 2" OD -					
	NG					
15460 102	Black Steel, Schedule 40, Threaded	5,600.00	LF	14.93	83,615	
10400.102	W/Couplings And Hangers, 10ft OC, 1-1/4" OD	0,000.00		14.50	00,010	
	- NG				40.000	
	Valves and Accessories	1.00	LS	10,000.00	10,000	
5460.200	Valves and Accessories	1.00	LS	50,000.00	50,000	
5470.100	Air Compressor, Reciprocating, Air-Cooled,	1.00	EA	14,100.00	14,100	
	Tank Mounted, Two Stage, 3 Phase, 105 CFM			·		
	@ 125 PSI, 25 HP, 250 Gal. Tank					
15/70 100	Copper Type L, Solder Joint W/Couplings And	1,000.00	LF	10.93	10,926	
15470.100		1,000.00	LF	10.93	10,920	
- 470 400	Hangers 10ft OC, 3/4" OD - CA	500.00			7.470	
15470.102	Copper Type L, Solder Joint W/Couplings And	500.00	LF	14.34	7,170	
	Hangers 10ft OC, 1" OD					
15470.212	Compressed Air Outlet, Recessed Wall, Single	50.00	EA	126.51	6,325	
15495.004	Commissioning Support	1.00	LS	7,000.00	7,000	
	Commissioning Support	1.00	LS	60,000.00	60,000	
	Coordination & Management	1.00	LS	10,000.00	10,000	
	Coordination & Management	1.00	LS	75,000.00	75,000	
	Coring & Patching & Firestopping	1.00	LS	2,500.00	2,500	
	Coring & Patching & Firestopping	1.00	LS	25,000.00	25,000	
	Flushing & Sanitizing	1.00	LS	2,000.00	2,000	
	Flushing & Sanitizing	1.00	LS	20,000.00	20,000	
	Fees & Permits	1.00	LS	4,000.00	4,000	
	Fees & Permits	1.00	LS	25,000.00	25,000	
		1.00	LS	25,000.00		
	PLUMBING				2,359,536	
Total D20 - I	PLUMBING				2,359,536	
D30 - HV	/AC					
D30 - H						
15620.000	Custom, 20" High, Insulated Roof Curb	37.00	EA	1,200.00	44,400	
15620.206	AHU-21, 22, Indoor, Central Station AHU, HC,	2.00	EA	1,034.00	2,068	
	CC, Filters, Mixing, Single Zone, CV, 6500			,	,	
	CFM					
15620 322	Outdoor, MAU, Indirect Gas-Fired (NG),	3.00	EA	18,107.34	54,322	
10020.020		3.00	LA	10, 107.34	04,022	
	Gravity Vent, SS Exchanger, 70degF Rise,					
	550 MBH Input					
15620.421	RTU 1-20, Stnd Controls, Curb, Econ., Multi-	20.00	EA	3,061.13	61,223	
	Zone, Gas Heat, 12 Ton Dx Cooling, 180 MBH					
	Heating, Heat Wheel, 4000 CFM					
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Job #: 15027

Project Size: 268,330 SF Detail - With Taxes and Insurance

Item Code	Description	Quantity	UM	Total UnitCost	Total Cost	
15620.422	RTU 23, Stnd Controls, Curb, Econ., Multi- Zone, Gas Heat, 7.5 Ton Dx Cooling, 130	1.00	EA	3,061.13	3,061	
15620.423	MBH Heating, 2500 CFM RTU 24, Stnd Controls, Curb, Econ., Multi- Zone, Gas Heat, 6.5 Ton Dx Cooling, 120	1.00	EA	3,061.13	3,061	
	MBH Heating, 2000 CFM RTU 34, Stnd Controls, Curb, Econ., Multi-	1.00	EA	31,061.13	31,061	
15620.424	Zone, Gas Heat, 200 MBH Heating, Heat Wheel, 3500 CFM RTU 25, 26, Stnd Controls, Curb, Econ., Multi-	2.00	EA	3,061.13	6,122	
45000 404	Zone, Gas Heat, 10 Ton Dx Cooling, 200 MBH Heating, 3200 CFM	4.00	F.	07.004.40	07.004	
	RTU 35, Stnd Controls, Curb, Econ., Multi- Zone, Gas Heat, 400 MBH Heating, Heat Wheel, 8000 CFM	1.00	EA	67,061.13	67,061	
15620.425	RTU 27, Stnd Controls, Curb, Econ., Multi- Zone, Gas Heat, 35 Ton Dx Cooling, 480 MBH Heating, 10000 CFM	1.00	EA	3,061.13	3,061	
15620.425	RTU 36, Stnd Controls, Curb, Econ., Multi- Zone, Gas Heat, 300 MBH Heating, Heat Wheel, 6000 CFM	1.00	EA	51,061.13	51,061	
15620.426	RTU 28, Stnd Controls, Curb, Econ., Multi- Zone, Gas Heat, 10 Ton Dx Cooling, 180 MBH	1.00	EA	3,061.13	3,061	
	Heating, 4000 CFM RTU 37, Stnd Controls, Curb, Econ., Multi- Zone, Gas Heat, 300 MBH Heating, Heat	1.00	EA	52,661.13	52,661	
	Wheel, 6200 CFM RTU 29, Stnd Controls, Curb, Econ., Multi- Zone, Gas Heat, 15 Ton Dx Cooling, 200 MBH	1.00	EA	3,061.13	3,061	
15620.428	Heating, 3500 CFM RTU 30, Stnd Controls, Curb, Econ., Multi- Zone, Gas Heat, 32 Ton Dx Cooling, 450 MBH	1.00	EA	3,061.13	3,061	
15620.429	Heating, 10500 CFM RTU 31, Stnd Controls, Curb, Econ., Multi- Zone, Gas Heat, 10 Ton Dx Cooling, 150 MBH	1.00	EA	3,061.13	3,061	
	Heating, 2500 CFM RTU 32, Stnd Controls, Curb, Econ., Multi- Zone, Gas Heat, 300 MBH Heating, Heat	1.00	EA	51,061.13	51,061	
	Wheel, 6000 CFM RTU 33, Stnd Controls, Curb, Econ., Multi- Zone, Gas Heat, 300 MBH Heating, Heat	1.00	EA	51,061.13	51,061	
15620.500	Wheel, 6000 CFM Daikin Rebel / Maverick II RTU's - VFD's, Extended Warranties	1.00	LS	1,090,000.00	1,090,000	
	Split System, Ductless, Cooling Only, Wall Mount, Single Zone, 1-1/2 Ton	8.00	EA	6,040.07	48,321	
15630.220	Single Bathroom Exhaust Fan, 100 CFM	10.00	EA	406.01	4,060	
15630.226	Bathroom Exhaust Fan, 1000 CFM	6.00	EA	1,683.76	10,103	
	Exhaust Fan, 1500 CFM	2.00	EA	2,183.76	4,368	
15630.416	Kitchen Exhaust Fan, Centrifugal, 4000 CFM	2.00	EA	4,226.70	8,453	
	Hot Water Condensing Boiler, Packaged w/Controls/Circulator/Trim, NG, 3000 MBH Output	4.00	EA	62,995.14	251,981	
	Hot Water Condensing Boiler, Packaged w/Controls/Circulator/Trim, NG, 330 MBH Output	6.00	EA	10,270.14	61,621	
15640 200	Salvage Existing Boilers	1.00	LS	-25,000.00	-25,000	
	Glycol Treatment System	1.00	LS	10,000.00	10,000	
	Chiller, Air Cooled, High Efficiency, 100 Ton	1.00	EA	70,660.58	70,661	
	Fume Hood, Fan, Ductwork	2.00	EA	5,500.00	11,000	
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Job #: 15027

Project Size: 268,330 SF Detail - With Taxes and Insurance

15660.002	15,000 25,000 25,000 65,000 87,000 11,256 16,187 42,094 81,250 92,500 22,197 16,809 49,252
15680.004   Vehicle Exhaust System, 5000 CFM	25,000 25,000 65,000 87,000 11,256 16,187 42,094 81,250 92,500 22,197 16,809
15680.004   Vehicle Exhaust System, 5000 CFM	25,000 25,000 65,000 87,000 11,256 16,187 42,094 81,250 92,500 22,197 16,809
15660.006   Paint Booth Exhaust System, 12000 CFM	25,000 65,000 87,000 11,256 16,187 42,094 81,250 92,500 22,197 16,809
15660.08   Dust Collection System, 4000 CFM	65,000 87,000 11,256 16,187 42,094 81,250 92,500 22,197 16,809
15660.202   Chilled Water Pump, Centrifugal, Base   2.00   EA   5,627.77	87,000 11,256 16,187 42,094 81,250 92,500 22,197 16,809
15660.202   Chilled Water Pump. Centrifugal, Base   2.00   EA   5,627.77	11,256 16,187 42,094 81,250 92,500 22,197 16,809
Mounted_End_Suction_210 gpm wVFD	16,187 42,094 81,250 92,500 22,197 16,809
15660.206	42,094 81,250 92,500 22,197 16,809
End Suction, 100 gpm w/FD 15660.206 Hot Water Pump, Centrifugal, Base Mounted, 2.00 EA 21,046.80 End Suction, 800 gpm w/FD 15680.040 Displacement Ventilation System (per 65.00 EA 1,250.00 Classroom) 15680.042 Sound Attenuator Device / Double Wall 37.00 EA 2,500.00 Ductwork (per RTU) 15680.112 Galvanized Ductwork, > 5000 LB 215,000.00 LB 10.34 2,23 (Sound Attenuator Device / Double Wall 37.00 EA 2,500.00 Ductwork (per RTU) 15680.112 Galvanized Ductwork, > 5000 LB 215,000.00 LB 10.34 2,23 (Sound Attenuator Device / Double Wall Resident Properties of Sound Resident Residen	42,094 81,250 92,500 22,197 16,809
15660.206   Holf Water Pump, Centifyingal, Base Mounted,   2.00   EA   21,046.80   End Suction, 800 gpm w/VFD   East Suction, 80	81,250 92,500 22,197 16,809
End Suction, 800 gpm w/VFD 15680.040 Displacement Ventilation System (per 65.00 EA 1,250.00 classroom) 15680.042 Sound Attenuator Device / Double Wall 37.00 EA 2,500.00 Ductwork (per RTU) 15680.112 Galvanized Ductwork, > 5000 LB 215,000.00 LB 10.34 2.24 15684.102 Duct Insulation, Blanket Type, Fiberglass, 195,000.00 SF 2.65 5. FSK, 1.010 Density, 1-1/2" Thick 15688.014 Gas Vent, Double Wall, Galvanized Steel, UL 1,000.00 LF 49.25 Listed, 12" Dia. 15690.102 Fin Tube Radiation, Wall Hung, 14" Slope Top, 1-1/4" Cu Tube, 4-1/4" Aluminum Fin 15691.001 Cabinet Unit Heater, Horizontal, Floor Mount, 35.00 EA 1,623.44 60 MBH 15691.201 Unit Heater, Horizontal, Floor Mount, 35.00 EA 1,623.44 15692.210 Variable Air Volume Box, Pl. w/Damper, 156.00 EA 895.01 15699.000 Chilled Beam 280.00 LF 100.00 Chilled Beam 280.00 LF 100.00 Chilled Beam 280.00 LF 100.00 Chilled Beam 15700.110 Copper Type L, Solder Joint W/Couplings And 11,000.00 LF 10.93 Hangers 10ft OC, 3/4" OD 15700.112 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 22.82 11 Hangers 10ft OC, 3/4" OD 15700.112 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 106.41 Hangers 10ft OC, 3/4" OD 15700.112 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 106.41 Hangers 10ft OC, 3" OD 15700.112 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 106.41 Hangers 10ft OC, 4" OD 15704.104 Fiberglass 1" Insulation With All Service Jacket 11,000.00 LF 10.93 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 15704.30 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 15704.30 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 15704.30 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 15704.30 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 15704.30 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 15704.30 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 15704.30 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 15704.30 Fiberglass 2" Insulation With All Service Jacket 1,	81,250 92,500 22,197 16,809
15680.040   Displacement Ventilation System (per Classroom)   1,250.00   1,250.00   1,250.00   1,250.00   1,250.00   1,250.0	92,500 22,197 16,809
Classroom   15680.042   Sound Attenuator Device / Double Wall   37.00   EA   2,500.00   15680.112   Galvanized Ductwork , ps	92,500 22,197 16,809
Classroom)  15680.042 Sound Attenuator Device / Double Wall 37.00 EA 2,500.00 Ductwork (per RTU)  15680.112 Galvanized Ductwork > 5000 LB 215,000.00 LB 10.34 2,21 15684.102 Duct Insulation, Blanket Type, Fiberglass, 195,000.00 SF 2.65 5 FSK, 1.0Lb Density, 1-1/2" Thick  15684.102 Duct Insulation, Blanket Type, Fiberglass, 195,000.00 SF 2.65 5 FSK, 1.0Lb Density, 1-1/2" Thick  15688.014 Gas Vent, Double Wall, Galvanized Steel, UL 1,000.00 LF 49.25 Listed, 12" Dia.  15690.102 Fin Tube Radiation, Wall Hung, 14" Slope Top, 2,500.00 LF 6524 11 15691.004 Cabinet Unit Heater, Horizontal, Floor Mount, 35.00 EA 1,623.44 60 MBH 15691.312 Unit Heater, Horizontal, 47 MBH 14.00 EA 723.44 15692.210 Variable Air Volume Box, Pl, w/Damper, 156.00 EA 895.01 13.699.000 Chilled Beam 280.00 LF 100.00 15700.106 Copper Type L, Solder Joint W/Couplings And 11,000.00 LF 10.93 13. Hangers 10ft OC, 3/4" OD 15700.112 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 63.09 Hangers 10ft OC, 3" OD 15700.112 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 63.09 Hangers 10ft OC, 3" OD 15700.112 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 63.09 Hangers 10ft OC, 3" OD 15700.112 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 63.09 Hangers 10ft OC, 3" OD 15700.112 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 63.09 Hangers 10ft OC, 3" OD 15700.112 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 63.09 Hangers 10ft OC, 4" OD 15700.112 Copper Type L, Solder Joint W/Couplings And 200.00 LF 63.09 Hangers 10ft OC, 4" OD 15700.112 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 63.09 Hangers 10ft OC, 4" OD 15700.112 Copper Type L, Solder Joint W/Couplings And 200.00 LF 63.09 Hangers 10ft OC, 4" OD 15700.112 Copper Type L, Solder Joint W/Couplings And 200.00 LF 63.09 Hangers 10ft OC, 4" OD 15700.112 Copper Type L, Solder Joint W/Couplings And 200.00 LF 63.09 Hangers 10ft OC, 4" OD 15700.112 Copper Type L, Solder Joint W/Couplings And 4" Dipe 40.000 LF 83.000 LF 83.000 LF 83.000 LF 83.000 LF 83.0	92,500 22,197 16,809
15680.042 Sound Attenuator Device / Double Wall 37.00 EA 2,500.00 Untwork (per RTU) 15680.112 Galvanized Ductwork, > 5000 LB 215,000.00 LB 10.34 2,22 15684.102 Duct Insulation, Blanket Type, Fiberglass, 195,000.00 SF FSK, 1.0Lb Density, 1-1/2" Thick 15688.104 Gas Vent, Double Wall, Galvanized Steel, UL 1,000.00 LF 49.25 Listed, 12" Dia. Sevent, Double Wall, Galvanized Steel, UL 1,000.00 LF 65.24 11 1-1/4" Cu Tube, 4-1/4" Aluminum Fin 14" Slope Top, 2,500.00 LF 65.24 11 1-1/4" Cu Tube, 4-1/4" Aluminum Fin 15691.004 Cabinet Unit Heater, Horizontal, Floor Mount, 60 MBH 15691.312 Unit Heater, Horizontal, 47 MBH 14.00 EA 723.44 15692.210 Variable Air Volume Box, PI, w/Damper, 156.00 EA 895.01 11 15699.000 Chilled Beam 280.00 LF 100.00 EA 895.01 11 15700.106 Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 3/4" OD 15700.112 Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 3" OD 15700.112 Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 3" OD 15700.112 Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 3" OD 15700.112 Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 3" OD 15700.112 Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 3" OD 15700.112 Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 3" OD 15700.112 Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 3" OD 15700.112 Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 4" OD 15700.112 Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 4" OD 15700.112 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 63.09 Hangers 10ft OC, 4" OD 15700.112 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 63.09 Hangers 10ft OC, 4" OD 15700.112 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 63.09 Hangers 10ft OC, 4" OD 15700.112 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 63.09 Hangers 10ft OC, 4" OD 15700.112 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 63.09 Hangers 10ft OC, 4" OD 15700.112" OD 15700.112" OD 15700.112" OD 1570	22,197 16,809
Ductwork (per RTU)	22,197 16,809
15680.112 Galvanized Duckwork, > 5000 LB 215,000.00 LB 10.34 2.2. 15684.102 Duct Insulation, Blanket Type, Fiberglass, 195,000.00 SF 2.65 5 FSK, 1.0Lb Density, 1-1/2" Thick 15688.014 Gas Vent, Double Wall, Galvanized Steel, UL 1,000.00 LF 49.25 Listed, 12" Dia. 15690.102 Fin Tube Radiation, Wall Hung, 14" Slope Top, 2,500.00 LF 65.24 11 -1/4" Cu Tube, 4-1/4" Aluminum Fin 15691.004 Cabinet Unit Heater, Horizontal, Floor Mount, 35.00 EA 1,623.44 60 MBH 15691.312 Unit Heater, Hot Water, Horizontal, 47 MBH 14.00 EA 723.44 15692.210 Variable Air Volume Box, PI, w/Damper, 156.00 EA 895.01 11	16,809
15684.102 Duct Insulation, Blanket Type, Fiberglass, 195,000.00 SF FSK, 1.0Lb Density, 1-1/2" Thick 15688.014 Gas Vent, Double Wall, Calvanized Steel, UL 1,000.00 LF 49.25 Listed, 12" Dia. 11690.102 Fin Tube Radiation, Wall Hung, 14" Slope Top, 2,500.00 LF 65.24 11.14" Cu Tube, 4-1.14" Aluminum Fin 15691.004 Cabinet Unit Heater, Horizontal, Floor Mount, 35.00 EA 1,623.44 60 MBH 15691.312 Unit Heater, Horizontal, 47 MBH 14.00 EA 723.44 15692.210 Variable Air Volume Box, PI, w/Damper, 156.00 EA 895.01 11: Actuator, T-Stat, 1000 CFM 15699.000 Chilled Beam 280.00 LF 100.00 15700.106 Copper Type L, Solder Joint W/Couplings And 11,000.00 LF 10.93 12: Alangers 10ft OC, 3/4" OD 15700.112 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 22.82 13: Hangers 10ft OC, 1-1/2" OD 15700.118 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 63.09 Hangers 10ft OC, 4" OD 15700.122 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 106.41 Hangers 10ft OC, 4" OD 15700.122 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 106.41 Hangers 10ft OC, 4" OD 15700.122 Copper Type L, Solder Joint W/Couplings And 200.00 LF 106.41 12 13/4" Pipe 15704.104 Fiberglass 1" Insulation With All Service Jacket 11,000.00 LF 3/4" Pipe 15704.308 Fiberglass 1-1/2" Pipe 15704.308 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 3/4" Pipe 15704.308 Fiberglass 2" Insulation With All Service Jacket 200.00 LF 3/4" Pipe 15704.308 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 3/4" Pipe 15704.308 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 3/4" Pipe 15704.308 Fiberglass 2" Insulation With All Service Jacket 200.00 LF 3/4" Pipe 15704.308 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 3/4" Pipe 15704.308 Fiberglass 2" Insulation With All Service Jacket 200.00 LF 3/4" Pipe 15704.308 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 3/4" Pipe 15704.308 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 3/4" Pipe 15704.308 Fiberglass 2" Insulation With All Service Ja	16,809
FSK, 1.0Lb Density, 1-1/2" Thick  1568.014 Gas Vent, Double Wall, Galvanized Steel, UL Listed, 12" Dia.  15690.102 Fin Tube Radiation, Wall Hung, 14" Slope Top, 1-1/4" Cu Tube, 4-1/4" Aluminum Fin  15691.004 Cabinet Unit Heater, Horizontal, Floor Mount, 60 MBH  15691.312 Unit Heater, Hot Water, Horizontal, 47 MBH 15692.210 Variable Air Volume Box, PI, w/Damper, Actuator, T-Stat, 1000 CFM  15699.000 Chilled Beam 280.00 LF 15699.000 Chilled Beam 280.00 LF 109.000 LF 109.000 Unit Heater, Horizontal, W/Couplings And Hangers 10ft CO, 3/4" OD  15700.112 Copper Type L, Solder Joint W/Couplings And Hangers 10ft CO, 1-1/2" OD  15700.112 Copper Type L, Solder Joint W/Couplings And Hangers 10ft CO, 3" OD  15700.122 Copper Type L, Solder Joint W/Couplings And Hangers 10ft CO, 3" OD  15700.120 Copper Type L, Solder Joint W/Couplings And Hangers 10ft CO, 3" OD  15700.121 Copper Type L, Solder Joint W/Couplings And Hangers 10ft CO, 4" OD  15700.122 Copper Type L, Solder Joint W/Couplings And Hangers 10ft CO, 4" OD  15700.123 Copper Type L, Solder Joint W/Couplings And Hangers 10ft CO, 4" OD  15700.124 Copper Type L, Solder Joint W/Couplings And Hangers 10ft CO, 4" OD  15700.125 Copper Type L, Solder Joint W/Couplings And Hangers 10ft CO, 4" OD  15700.126 Copper Type L, Solder Joint W/Couplings And Hangers 10ft CO, 4" OD  15700.127 Copper Type L, Solder Joint W/Couplings And Hangers 10ft CO, 4" OD  15700.128 Copper Type L, Solder Joint W/Couplings And Hangers 10ft CO, 4" OD  15700.129 Copper Type L, Solder Joint W/Couplings And Hangers 10ft CO, 5" OD  15700.129 Copper Type L, Solder Joint W/Couplings And Hangers 10ft CO, 5" OD  15700.129 Copper Type L, Solder Joint W/Couplings And Hangers 10ft CO, 5" OD  15700.129 Copper Type L, Solder Joint W/Couplings And Hangers 10ft CO, 5" OD  15700.129 Copper Type L, Solder Joint W/Couplings And Hangers 10ft CO, 5" OD  15700.129 Copper Type L, Solder Joint W/Couplings And Hangers 10ft CO, 5" OD  15700.129 Copper Type L, Solder Joint W/Couplings And Hangers 10ft CO, 5" OD  15700.129 Copper	
15688.014 Gas Vent, Double Wall, Galvanized Steel, UL 1,000.00 LF Listed, 12" Dia. 15690.102 Fin Tube Radiation, Wall Hung, 14" Slope Top, 2,500.00 LF 65.24 11 1-1/4" Cu Tube, 4-1/4" Aluminum Fin 15691.004 Cabinet Unit Heater, Horizontal, Floor Mount, 60 MBH 60 MBH 15691.312 Unit Heater, Horizontal, 47 MBH 14.00 EA 723.44 15692.210 Variable Air Volume Box, PI, w/Damper, 156.00 EA 895.01 Actuator, T-Stat, 1000 CFM 15699.000 Life 100.000 LF 100.00 LF 100.00 15700.105 Copper Type L, Solder Joint W/Couplings And 11,000.00 LF 10.93 11 Hangers 10ft OC, 3/4" OD 15700.112 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 63.09 Hangers 10ft OC, 3" OD 15700.122 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 106.41 Hangers 10ft OC, 4" OD 15704.104 Fiberglass 1" Insulation With All Service Jacket 11,000.00 LF 3/4" Pipe 15704.308 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 8.32 3" Pipe 15704.312 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 8.32 3" Pipe 15704.312 Fiberglass 2" Insulation With All Service Jacket 200.00 LF 9.99 4" Pipe	49,252
Listed, 12" Dia.  15690.102 Fin Tube Radiation, Wall Hung, 14" Slope Top, 2,500.00 LF 65.24 1.14" Cur Tube, 4-1/4" Aluminum Fin 15691.004 Cabinet Unit Heater, Horizontal, Floor Mount, 60 MBH 15691.312 Unit Heater, Horizontal, 47 MBH 14.00 EA 723.44 15692.210 Variable Air Volume Box, PI, w/Damper, 156.00 EA 895.01 15699.201 Variable Air Volume Box, PI, w/Damper, 156.00 EA 895.01 15699.000 Chilled Beam 280.00 LF 100.00 15700.106 Copper Type L, Solder Joint W/Couplings And 11,000.00 LF 10.93 11 Hangers 10ft OC, 3/4" OD 15700.112 Copper Type L, Solder Joint W/Couplings And 5,500.00 LF 22.82 11 Hangers 10ft OC, 1-1/2" OD 15700.118 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 63.09 Hangers 10ft OC, 3" OD 15700.122 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 63.09 Hangers 10ft OC, 3" OD 15700.122 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 63.09 Hangers 10ft OC, 4" OD 15704.104 Fiberglass 1" Insulation With All Service Jacket 11,000.00 LF 4.12 3/4" Pipe 15704.202 Fiberglass 1-1/2" Insulation With All Service Jacket 1,250.00 LF 8.32 3" Pipe 15704.312 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 8.32 3" Pipe 15704.312 Fiberglass 2" Insulation With All Service Jacket 200.00 LF 9.99 4" Pipe	10,202
15690.102 Fin Tube Radiation, Wall Hung, 14" Slope Top, 2,500.00 LF 65.24 11 1-1/4" Cu Tube, 4-1/4" Aluminum Fin 15691.004 Cabinet Unit Heater, Horizontal, Floor Mount, 60 MBH 15691.312 Unit Heater, Hot Water, Horizontal, 47 MBH 14.00 EA 723.44 15692.210 Variable Air Volume Box, PI, w/Damper, 156.00 EA 895.01 15699.000 Chilled Beam 280.00 LF 100.00 15700.106 Copper Type L, Solder Joint W/Couplings And 11,000.00 LF 10.93 17.000.112 Copper Type L, Solder Joint W/Couplings And 12,500.00 LF 22.82 17.000.118 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 63.09 Hangers 10ft OC, 1-1/2" OD 15700.118 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 63.09 Hangers 10ft OC, 3" OD 15700.122 Copper Type L, Solder Joint W/Couplings And 200.00 LF 106.41 Hangers 10ft OC, 4" OD 15704.104 Fiberglass 1" Insulation With All Service Jacket 11,000.00 LF 15704.202 Fiberglass 1" Insulation With All Service 5,500.00 LF 5.67 Jacket 1-1/2" Pipe 15704.308 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 8.32 3" Pipe 15704.312 Fiberglass 2" Insulation With All Service Jacket 200.00 LF 9.99 4" Pipe	I I
1-1/4" Cu Tube, 4-1/4" Aluminum Fin 15691.004 Cabinet Unit Heater, Horizontal, Floor Mount, 60 MBH 15691.312 Unit Heater, Hot Water, Horizontal, 47 MBH 15692.210 Variable Air Volume Box, PI, w/Damper, 156.00 EA Actuator, T-Stat, 1000 CFM 15699.000 Childed Beam 280.00 LF 15700.106 Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 3/4" OD 15700.112 Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 3-1/2" OD 15700.118 Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 3" OD 15700.122 Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 4" OD 15704.104 Fiberglass 1" Insulation With All Service Jacket Jacket 1-1/2" Pipe 15704.202 Fiberglass 2" Insulation With All Service Jacket 3" Pipe 15704.312 Fiberglass 2" Insulation With All Service Jacket 4" Pipe	63,099
15691.004 Cabinet Unit Heater, Horizontal, Floor Mount, 60 MBH 15691.312 Unit Heater, Hot Water, Horizontal, 47 MBH 14.00 EA 723.44 15692.210 Variable Air Volume Box, PI, w/Damper, 156.00 EA 895.01 15699.000 Chilled Beam 280.00 LF 100.00 15700.106 Copper Type L, Solder Joint W/Couplings And 11,000.00 LF 10.93 Hangers 10ft OC, 3/4" OD 15700.112 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 22.82 15700.112 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 63.09 Hangers 10ft OC, 1-1/2" OD 15700.118 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 63.09 Hangers 10ft OC, 3" OD 15700.122 Copper Type L, Solder Joint W/Couplings And 200.00 LF 1606.41 Hangers 10ft OC, 4" OD 15704.104 Fiberglass 1" Insulation With All Service Jacket 11,000.00 LF 3/4" Pipe 15704.202 Fiberglass 1-1/2" Insulation With All Service 5,500.00 LF 5.67 Jacket 1-1/2" Pipe 15704.308 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 8.32 3" Pipe 15704.312 Fiberglass 2" Insulation With All Service Jacket 200.00 LF 9.99 4" Pipe	30,000
60 MBH 15691.312 Unit Heater, Hot Water, Horizontal, 47 MBH 15692.210 Variable Air Volume Box, PI, w/Damper, 156.00 EA 895.01 Actuator, T-Stat, 1000 CFM 15699.000 Chilled Beam 280.00 LF 100.00 15700.106 Copper Type L, Solder Joint W/Couplings And 11,000.00 LF 10.93 12 Hangers 10ft OC, 3/4" OD 15700.112 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 22.82 12 Hangers 10ft OC, 3" OD 15700.118 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 63.09 Hangers 10ft OC, 3" OD 15700.122 Copper Type L, Solder Joint W/Couplings And 200.00 LF 106.41 12 Hangers 10ft OC, 4" OD 15704.104 Fiberglass 1" Insulation With All Service Jacket 11,000.00 LF 4.12 3/4" Pipe 15704.202 Fiberglass 1-1/2" Insulation With All Service 5,500.00 LF 5.67 Jacket 1-1/2" Pipe 15704.308 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 8.32 3" Pipe 15704.312 Fiberglass 2" Insulation With All Service Jacket 200.00 LF 9.99 4" Pipe	56,821
15691.312 Unit Heater, Hot Water, Horizontal, 47 MBH 15692.210 Variable Air Volume Box, PI, w/Damper, 156.00 EA 895.01 13699.000 Chilled Beam 280.00 LF 15699.000 Chilled Beam 280.00 LF 100.000 15700.106 Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 3/4" OD 15700.112 Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, -1-1/2" OD 15700.118 Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 3" OD 15700.122 Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 4" OD 15704.104 Fiberglass 1" Insulation With All Service Jacket 3/4" Pipe 15704.308 Fiberglass 2" Insulation With All Service Jacket 3" Pipe 15704.312 Fiberglass 2" Insulation With All Service Jacket 3" Pipe 15704.312 Fiberglass 2" Insulation With All Service Jacket 4" Pipe	30,021
15692.210 Variable Air Volume Box, PI, w/Damper, 156.00 EA Actuator, T-Stat, 1000 CFM  15699.000 Chilled Beam 280.00 LF 100.00 31  15700.106 Copper Type L, Solder Joint W/Couplings And 11,000.00 LF 10.93 13  Hangers 10ft OC, 3/4" OD 15700.112 Copper Type L, Solder Joint W/Couplings And 5,500.00 LF 22.82 13  Hangers 10ft OC, 1-1/2" OD 15700.118 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 63.09 15700.122 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 106.41 16.41 17.500.122 Copper Type L, Solder Joint W/Couplings And 200.00 LF 106.41 17.500.122 Copper Type L, Solder Joint W/Couplings And 200.00 LF 15704.104 Fiberglass 1" Insulation With All Service Jacket 11,000.00 LF 15704.104 Fiberglass 1-1/2" Insulation With All Service 5,500.00 LF 5.67 15704.202 Fiberglass 1-1/2" Insulation With All Service Jacket 1,250.00 LF 8.32 3" Pipe 15704.308 Fiberglass 2" Insulation With All Service Jacket 200.00 LF 9.99 4" Pipe	10,128
Actuator, T-Stat, 1000 CFM  15699.000 Chilled Beam 280.00 LF 100.00  15700.106 Copper Type L, Solder Joint W/Couplings And 11,000.00 LF 10.93 11.  Hangers 10ft OC, 3/4" OD 15700.112 Copper Type L, Solder Joint W/Couplings And 5,500.00 LF 22.82 11.  Hangers 10ft OC, 1-1/2" OD 15700.118 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 63.09 Hangers 10ft OC, 3" OD 15700.122 Copper Type L, Solder Joint W/Couplings And 200.00 LF 106.41 Hangers 10ft OC, 4" OD 15704.104 Fiberglass 1" Insulation With All Service Jacket 11,000.00 LF 4.12 3/4" Pipe 15704.202 Fiberglass 1-1/2" Insulation With All Service Jacket 1,250.00 LF 5.67 Jacket 1-1/2" Pipe 15704.308 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 8.32 3" Pipe 15704.312 Fiberglass 2" Insulation With All Service Jacket 200.00 LF 9.99 4" Pipe	39,622
15699.000 Chilled Beam 280.00 LF 100.00 15700.106 Copper Type L, Solder Joint W/Couplings And 11,000.00 LF 10.93 12 Hangers 10ft OC, 3/4" OD 15700.112 Copper Type L, Solder Joint W/Couplings And 5,500.00 LF 22.82 13 Hangers 10ft OC, 1-1/2" OD 15700.118 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 63.09 Hangers 10ft OC, 3" OD 15700.122 Copper Type L, Solder Joint W/Couplings And 200.00 LF 16700.122 Copper Type L, Solder Joint W/Couplings And 200.00 LF 16704.104 Fiberglass 1" Insulation With All Service Jacket 11,000.00 LF 4.12 3/4" Pipe 15704.202 Fiberglass 1-1/2" Insulation With All Service 5,500.00 LF 5.67 Jacket 1-1/2" Pipe 15704.308 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 8.32 3" Pipe 15704.312 Fiberglass 2" Insulation With All Service Jacket 200.00 LF 9.99 4" Pipe	39,022
15700.106 Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 3/4" OD 15700.112 Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 1-1/2" OD 15700.118 Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 3" OD 15700.122 Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 4" OD 15704.104 Fiberglass 1" Insulation With All Service Jacket 11,000.00 LF 4.12 Jacket 1-1/2" Insulation With All Service 5,500.00 LF 5.67 Jacket 1-1/2" Pipe 15704.308 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 8.32 Jepe 15704.312 Fiberglass 2" Insulation With All Service Jacket 200.00 LF 9.99 Jepe 15704.312 Fiberglass 2" Insulation With All Service Jacket 200.00 LF 9.99	00 000
Hangers 10ft OC, 3/4" OD  15700.112 Copper Type L, Solder Joint W/Couplings And 5,500.00 LF 22.82 12  Hangers 10ft OC, 1-1/2" OD  15700.118 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 63.09  Hangers 10ft OC, 3" OD  15700.122 Copper Type L, Solder Joint W/Couplings And 200.00 LF 106.41  Hangers 10ft OC, 4" OD  15704.104 Fiberglass 1" Insulation With All Service Jacket 11,000.00 LF 4.12  3/4" Pipe  15704.202 Fiberglass 1-1/2" Insulation With All Service 5,500.00 LF 5.67  Jacket 1-1/2" Pipe  15704.308 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 8.32  3" Pipe  15704.312 Fiberglass 2" Insulation With All Service Jacket 200.00 LF 9.99  4" Pipe	28,000
15700.112 Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 1-1/2" OD  15700.118 Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 3" OD  15700.122 Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 4" OD  15704.104 Fiberglass 1" Insulation With All Service Jacket 11,000.00 LF 4.12 3/4" Pipe  15704.202 Fiberglass 1-1/2" Insulation With All Service 5,500.00 LF 5.67 Jacket 1-1/2" Pipe  15704.308 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 8.32 3" Pipe  15704.312 Fiberglass 2" Insulation With All Service Jacket 200.00 LF 9.99 4" Pipe	20,183
Hangers 10ft OC, 1-1/2" OD  15700.118 Copper Type L, Solder Joint W/Couplings And 1,250.00 LF 63.09  Hangers 10ft OC, 3" OD  15700.122 Copper Type L, Solder Joint W/Couplings And 200.00 LF 106.41  Hangers 10ft OC, 4" OD  15704.104 Fiberglass 1" Insulation With All Service Jacket 11,000.00 LF 4.12  3/4" Pipe  15704.202 Fiberglass 1-1/2" Insulation With All Service 5,500.00 LF 5.67  Jacket 1-1/2" Pipe  15704.308 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 8.32  3" Pipe  15704.312 Fiberglass 2" Insulation With All Service Jacket 200.00 LF 9.99  4" Pipe	05 540
15700.118 Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 3" OD  15700.122 Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 4" OD  15704.104 Fiberglass 1" Insulation With All Service Jacket 11,000.00 LF 4.12 3/4" Pipe  15704.202 Fiberglass 1-1/2" Insulation With All Service 5,500.00 LF 5.67 Jacket 1-1/2" Pipe  15704.308 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 8.32 3" Pipe  15704.312 Fiberglass 2" Insulation With All Service Jacket 200.00 LF 9.99 4" Pipe	25,516
Hangers 10ft OC, 3" OD  15700.122 Copper Type L, Solder Joint W/Couplings And 200.00 LF 106.41  Hangers 10ft OC, 4" OD  15704.104 Fiberglass 1" Insulation With All Service Jacket 11,000.00 LF 4.12  3/4" Pipe  15704.202 Fiberglass 1-1/2" Insulation With All Service 5,500.00 LF 5.67  Jacket 1-1/2" Pipe  15704.308 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 8.32  3" Pipe  15704.312 Fiberglass 2" Insulation With All Service Jacket 200.00 LF 9.99  4" Pipe	78,860
15700.122 Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 4" OD  15704.104 Fiberglass 1" Insulation With All Service Jacket 11,000.00 LF 4.12 3/4" Pipe  15704.202 Fiberglass 1-1/2" Insulation With All Service 5,500.00 LF 5.67 Jacket 1-1/2" Pipe  15704.308 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 8.32 3" Pipe  15704.312 Fiberglass 2" Insulation With All Service Jacket 200.00 LF 9.99 4" Pipe	70,000
Hangers 10ft OC, 4" OD  15704.104 Fiberglass 1" Insulation With All Service Jacket 11,000.00 LF 4.12  3/4" Pipe  15704.202 Fiberglass 1-1/2" Insulation With All Service 5,500.00 LF 5.67  Jacket 1-1/2" Pipe  15704.308 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 8.32  3" Pipe  15704.312 Fiberglass 2" Insulation With All Service Jacket 200.00 LF 9.99  4" Pipe	24 202
15704.104 Fiberglass 1" Insulation With All Service Jacket 11,000.00 LF 4.12  3/4" Pipe  15704.202 Fiberglass 1-1/2" Insulation With All Service 5,500.00 LF 5.67  Jacket 1-1/2" Pipe  15704.308 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 8.32  3" Pipe  15704.312 Fiberglass 2" Insulation With All Service Jacket 200.00 LF 9.99  4" Pipe	21,283
3/4" Pipe  15704.202 Fiberglass 1-1/2" Insulation With All Service 5,500.00 LF  Jacket 1-1/2" Pipe  15704.308 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF  3" Pipe  15704.312 Fiberglass 2" Insulation With All Service Jacket 200.00 LF  4" Pipe	45 204
15704.202 Fiberglass 1-1/2" Insulation With All Service 5,500.00 LF  Jacket 1-1/2" Pipe  15704.308 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF  3" Pipe  15704.312 Fiberglass 2" Insulation With All Service Jacket 200.00 LF  4" Pipe	45,324
Jacket 1-1/2" Pipe  15704.308 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 8.32  3" Pipe  15704.312 Fiberglass 2" Insulation With All Service Jacket 200.00 LF 9.99  4" Pipe	24 407
15704.308 Fiberglass 2" Insulation With All Service Jacket 1,250.00 LF 8.32 3" Pipe 15704.312 Fiberglass 2" Insulation With All Service Jacket 200.00 LF 9.99 4" Pipe	31,187
3" Pipe 15704.312 Fiberglass 2" Insulation With All Service Jacket 200.00 LF 9.99 4" Pipe	10 401
15704.312 Fiberglass 2" Insulation With All Service Jacket 200.00 LF 9.99 4" Pipe	10,401
4" Pipe	1 007
	1,997
10/00.007 Ali Ocualatui Wigitaliici, Z-1/2 Dia. 3.00 EA I 1.44/.07 I	4,343
	3,113
	11,382
Diaphragm, 61 Gal. Accep. Vol. 15706.214 Expansion Tank, Steel, ASME, Rubber 1.00 EA 6,586.85	C 507
	6,587
Diaphragm, 211 Gal. Accep. Vol. 15708.106 ARC Tubing, Type L Copper, Hard Tempered, 800.00 LF 7.26	5 000
15708.106 ARC Tubing, Type L Copper, Hard Tempered, 800.00 LF 7.26  No Couplings/Hangers, 5/8"	5,808
15708.112 ARC Tubing, Type L Copper, Hard Tempered, 800.00 LF 11.05	0 0 4 0 I
No Couplings/Hangers, 1-1/8"	8,840
	15,000
	15,000 20,000
	15,000 20,000 12,475
	15,000 20,000 12,475 13,005
15801.501 Coordination & Management 1.00 LS 20,000.00	15,000 20,000 12,475



Job #: 15027

Project Size: 268,330 SF Detail - With Taxes and Insurance

Item	Description	Quantity	UM	Total	Total	
Code	Description	Quantity	UIVI	UnitCost	Cost	
				5	333.	
15801.501	Coordination & Management	1.00	LS	175,000.00	175,000	
15801.502	Commissioning Support	1.00	LS	5,000.00	5,000	
15801.502	Commissioning Support	1.00	LS	50,000.00	50,000	
	Coring, Patching & Firestopping	1.00	LS	1,000.00	1,000	
	Coring, Patching & Firestopping	1.00	LS	25,000.00	25,000	
	Seismic Restraint	1.00	LS	15,000.00	15,000	
	Seismic Restraint	1.00	LS	65,000.00	65,000	
	Fees & Permits	1.00	LS	10,000.00	10,000	
	Fees & Permits	1.00	LS	50,000.00	50,000	
*** Total D30 -		1.00	LO	30,000.00	8,870,778	
** Total D30 - I					8,870,778	
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	RE PROTECTION					
	IRE PROTECTION					
15500.000	Fire Protection - Temporary FP Service -	1.00	LS	5,000.00	5,000	
15500 030	Modulars Interface w/Existing Sprinkler System - Daily	1.00	LS	50,000.00	50,000	
	Fire Service Main - 6" Ductile Iron, Mech. Joint	150.00	LF	29.65	4,447	
	6" Double Check Backflow Preventer W/OS&Y	2.00	EA	5,868.66	11,737	
13302.024	Valves, 4 Test Cocks	2.00	LA	3,000.00	11,737	
15502 110	FDC - Two Way Siamese - 3x3x6	2.00	EA	1.561.99	3,124	
	4" Zone Flow Control Valve W/Trim And	13.00	EA	6,038.56	78,501	
13302.110	Gauges	13.00	LA	0,000.00	70,301	
15502 128	Tamper Switch	25.00	EA	156.50	3,912	
	Sprinkler Main Sch 40 BS - 4", Grooved Joint,	7,820.00	LF	40.66	317,939	
10002.202	W/Hangers 10 Ft O.C.	7,020.00		40.00	017,500	
15502 222	Sprinkler Branch Sch 40 BS - 1" Threaded W/	15,650.00	LF	12.94	202,588	
10002.222	Hangers 10 Ft O.C.	10,000.00		12.01	202,000	
15502 226	Sprinkler Branch Sch 40 BS - 1-1/2" Threaded	7,725.00	LF	16.90	130,551	
10002.220	W/ Hangers 10 Ft O.C.	1,120.00		10.00	100,001	
15502 300	Temporary Water Line to Pre-Plumbed	1.00	LS	10,000.00	10,000	
.0002.000	Modular Classrooms			10,000.00	10,000	
15502 400	Sprinkler Heads - Standard Pendant, 1/2"	2,350.00	EA	37.85	88,946	
.000200	NPT, 1/2" Orifice	_,000.00	_, .		35,5.5	
15505 006	2" Dry Pipe Valve With Trim And Gauges - RR	1.00	EA	2,548.98	2,549	
	30 Gal., 1 HP Comp Air Sys For Fire	1.00	EA	1,110.76	1,111	
10000.012	Protection - RR	1.00	_, .	1,110.10	.,	
15505 202	Sprinkler Main Sch 40 BS - 4", Grooved Joint,	115.00	LF	40.66	4,676	
.0000.202	W/Hangers 10 Ft O.C RR			10.00	.,	
15505 222	Sprinkler Branch Sch 40 BS - 1" Threaded W/	190.00	LF	12.94	2,460	
.0000.	Hangers 10 Ft O.C RR			.=	_,	
15505 400	Sprinkler Heads - Standard Upright, 1/2" NPT,	20.00	EA	37.85	757	
	1/2" Orifice - RR	20.00	_, .			
15535.002	Coordination & Management	1.00	LS	5,000.00	5,000	
	Coordination & Management	1.00	LS	12,000.00	12,000	
	Hydraulic Calculations	1.00	LS	2.000.00	2,000	
	Hydraulic Calculations	1.00	LS	8,000.00	8,000	
	Coring & Patching & Firestopping	1.00	LS	4,000.00	4,000	
	Coring & Patching & Firestopping  Coring & Patching & Firestopping	1.00	LS	11,000.00	11,000	
					· ·	
	Fees & Permits	1.00	LS	2,000.00	2,000	
	Fees & Permits	1.00	LS	8,000.00	8,000	
	FIRE PROTECTION				970,299	
** Total D40 - I	FIRE PROTECTION				970,299	
D50 - EL	ECTRICAL					
	LECTRICAL					
	Temporary Electrical - Modulars	1.00	LS	10,000.00	10,000	
	300 kW NG Emergency Generator w/Sound	1.00	EA	154,364.83	154,365	
10020.210	Attenuated Enclosure	1.00		101,001.00	101,000	
16020.212	Emergency Power Equipment and Distribution	240,130.00	SF	1.50	360,195	
	<b>5</b> , , , , ,	,		1		



Job #: 15027

Project Size: 268,330 SF Detail - With Taxes and Insurance

ltom	Description	Quantity	UM	Total	Total	
Item Code	Description	Quantity	UW	UnitCost	Cost	
	Emergency Generator - Testing	1.00	LS	5,000.00	5,000	
16030.000	3000 Amp Switchgear, 480/277V	1.00	EA	75,000.00	75,000	
16030.004	Transformer / Primary / Conduit **	1.00	LS	50,000.00	50,000	
	ALLOWANCE **					
	Panel Feeders	68.00	EA	2,500.00	170,000	
16040.008	Primary Conduit Only - (1) 4"	800.00	LF	4.40	3,520	
16040.010	Secondary Feeder - (8) 4" Conduits	800.00	LF	4.40	3,520	
16040.011	Secondary Feeder - #600 MCM Conductor	3,200.00	LF	34.35	109,920	
16040.060	Grounding/Bonding	1.00	LS	3,500.00	3,500	
16040.060	Grounding/Bonding	1.00	LS	10,000.00	10,000	
16040.200	20 KW UPS	2.00	EA	20,000.00	40,000	
16040.218	Panel 277/480V 100A - Lighting	17.00	EA	1,688.95	28,712	
16040.218	Panel 277/480V 100A - Mechanical	17.00	EA	1,688.95	28,712	
16040.224	Panel 277/480V 400A - Distribution	17.00	EA	3,361.74	57,150	
16040.228	Triple Tub Panel 120/208V 250 Amp	17.00	EA	9,850.14	167,452	
	Transformer Dry Type, Three Phase, 30kVA	17.00	EA	4,977.90	84,624	
	Transformer Dry Type, Three Phase, 75kVA	17.00	EA	7,257.30	123,374	
	Branch Devices	268,330.00	SF	1.00	268,330	
	Power and Branch Circuitry	28,200.00	SF	3.00	84,600	
	Power and Branch Circuitry	240,130.00	SF	4.00	960,520	
	RTU Feeder	38.00	EA	2,730.06	103,742	
	Boiler Feeder	10.00	EA	1,415.03	14,150	
	Pump Feeder	9.00	EA	1,985.05	17,865	
	Chiller Feeder	1.00	EA	8,380.11	8,380	
	2x4 Flourescent - MER	50.00	EA	345.01	17,251	
	Recessed LED's - Classrooms/Offices	1,426.00	EA	295.01	420,687	
	Direct LED's - Gymnasium	20.00	EA	1,090.02	21,800	
	Linear Indirect LED's - Corridor	305.00	EA	445.01	135,729	
		58.00	EA	735.02		
10000.010	Pendant Mount / Indirect Flourescent - Cafeteria	30.00	EA	733.02	42,631	
16000 010		45.00	ΓΛ	610.00	27.451	
	2x2 LED Panels - Kitchen/Servery	45.00	EA EA	610.02	27,451	
	Direct Recessed LED's - Library	36.00		295.01	10,620	
	Dimmable Flourescent - Auditorium	60.00	EA	345.01	20,701	
	Exterior Wall Mount - LED	32.00	EA	635.02	20,321	
	Exterior Pole Fixture - Custom LED	27.00	EA	5,000.00	135,000	
	Exterior Pendant - LED - RR	15.00	EA	635.02	9,525	
	Lighting Circuitry	268,330.00	SF	2.25	603,743	
	Lighting Controls	268,330.00	SF	1.25	335,413	
	Lighting Controls & Panels - Testing	1.00	LS	5,000.00	5,000	
	Lighting Controls & Panels - Testing	1.00	LS	15,000.00	15,000	
16081.150	Stage Lights / Sound System / Dimmer Rack **	1.00	LS	375,000.00	375,000	
	ALLOWANCE **					
	Sound System - Cafeteria ??	1.00	LS	20,000.00	20,000	
	Sound System - Gymnasium	1.00	LS	20,000.00	20,000	
16100.002	Sound System - Music Room	1.00	LS	10,000.00	10,000	
16110.020	Bi-Directional Antennae	1.00	LS	50,000.00	50,000	
16110.100	Tel/ Data/ CATV	28,200.00	SF	1.25	35,250	
16110.100	Tel/ Data/ CATV	240,130.00	SF	2.50	600,325	
16170.100	Card Reader System - Head End Equipment	1.00	EA	9,000.00	9,000	
	Card Readers - Swipes/Wires	40.00	EA	1,700.00	68,000	
16180.000	Master Clock	268,330.00	SF	0.35	93,916	
16180.001	Intercom	268,330.00	SF	0.60	160,998	
	Communications - Testing	1.00	LS	5,000.00	5,000	
	Communications - Testing	1.00	LS	15,000.00	15,000	
	Security System - Head End Equipment	1.00	LS	35,000.00	35,000	
	Fixed Interior CCTV Cameras	35.00	EA	3,000.00	105,000	
	Pan-Tilt-Zoom Exterior CCTV Cameras	18.00	EA	5,000.00	90,000	
	Fire Alarm	268,330.00	SF	2.00	536,660	
	Fire Alarm Testing	1.00	LS	3,500.00	3,500	
	Fire Alarm Testing	1.00	LS	5,000.00	5,000	
10000.104		1.00	LO	3,000.00	3,000	
				I.		



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Project Size: 268,330 SF Detail - With Taxes and Insurance

16400.002 16400.100 16400.100 16400.102 16400.102 16400.104 16400.104	Lightning Protection			UnitCost	Cost
16400.100 (16400.100 (16400.102   16400.102   16400.104   164000.104   164000.104   164000.104   164000.104   164000.104   164		4.00		5 000 00	
16400.100 ( 16400.102 F 16400.102 F 16400.104 F	(`ommissioning	1.00	LS	5,000.00	5,000
16400.102 F 16400.102 F 16400.104 F		1.00	LS	15,000.00	15,000
16400.102 F 16400.104 F	J .	1.00	LS	50,000.00	50,000
16400.104 I	11 0	1.00	LS	7,000.00	7,000
		1.00	LS	15,000.00	15,000
16400 104		1.00	LS	2,000.00	2,000
		1.00	LS	5,000.00	5,000
16400.106	Seismic Restraint	1.00	LS	2,000.00	2,000
16400.106	Seismic Restraint	1.00	LS	10,000.00	10,000
16400.108	Fees & Permits	1.00	LS	5,000.00	5,000
16400.108	Fees & Permits	1.00	LS	40,000.00	40,000
** Total D50 - E	ELECTRICAL				7,157,151
* Total D50 - El					7,157,151
E10 - EQU	UIPMENT				
	QUIPMENT, GENERALLY				
	12" Dock Seal - OH Doors	1.00	EA	1,585.04	1,585
	Rubber Dock Bumper 4 1/2"x14"x12"	2.00	EA	166.38	333
	OUTDOOR SCOREBOARDS - NOT			I	
	INCLUDED			I	
11480.008	Gym Bleachers (One Side Only)	1.00	LS	25,000.00	25,000
	Gym Divider Curtain	1.00	LS	25,000.00	25,000
11480.014	Gym Divider Curtain - Existing to remain		LF	160.00	
	Basketball Hoop	6.00	EA	5,333.33	32,000
	Basketball Hoop - Existing to remain		EA	5,333.33	·
	Volley Ball Net w/ Floor Inserts	1.00	EA	1,900.00	1,900
	Score Board - Existing to remain		EA	8,500.00	·
	Upgrade Motorized Retraction System for		LS	20,000.00	
	Existing Bleachers			20,000.00	
	Plastic Telescoping Stands - Hussey Maxam		EA	110.00	
	26 Motorized Bleachers		`	110.00	[
	Gym Wall Padding - 6' Ht	470.00	LF	100.00	47,000
	Temporarily Relocate Existing Bleachers for	1.00	LS	-18,000.00	-18,000
	Floor Replacement	1.00		- 10,000.00	-10,000
	Temporarily Relocate Existing Bleachers for	1.00	LS	20,000.00	20,000
		1.00	LO	20,000.00	20,000
	Floor Replacement			I	
	Stage Set Fastening Equipment - In Line set				[
	Allowance		_,	4 005 45	1
	Lecture Hall Tables - 18" X 5'	000.00	EA	1,085.15	000.000
	Auditorium Seating - Quattro By Hussey	800.00	EA	250.00	200,000
	Seating	4.00		475 000 00	475.000
	Line Sets & Shell Allowance - Auditorium	1.00	LS	175,000.00	175,000
	EQUIPMENT, GENERALLY				509,818
* Total E10 - E0					509,818
	RNISHINGS		1		
	FIXED FURNISHINGS				
10000.020	Smart Boards - N/A per HMFH		EA	2,677.73	[
10100.004	Marker Board W/ Alum Trim - Classrooms &	2,400.00	SF	15.63	37,518
ļ	Labs			I	
10100.006	Tack Board W/O Trim	2,400.00	SF	8.32	19,959
12500.010	Hunter Douglas Roller Shades (50% of	14,000.00	SF	11.00	154,000
	glazing)	·			·
	- FIXED FURNISHINGS				211,477 211,477
					211,711
	ECIAL CONSTRUCTION				[
F10 - SP	PECIAL CONSTRUCTION				
2100.022	50' Riding Ring w/ Fence (Roof in B10)	1.00	LS	10,000.00	10,000
	Crushed Stone Under Slab - Kennel	20.00	CY	42.51	850



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Item Code	Description	Quantity	UM	Total UnitCost	Total Cost	
	4" SOG - Kennel	400.00	SF	7.71	3,084	
2720.115	Chain Link Fence - Vinyl Coated 6' H - Kennel	120.00	LF	22.00	2,640	
*** T-4-1 F40	(10' x 10')				40 574	
	SPECIAL CONSTRUCTION SPECIAL CONSTRUCTION				16,574	
					16,574	
	LECTIVE BUILDING DEMOLITION					
	BUILDING ELEMENTS DEMOLIT	ION				
	Demo grade beams & pile caps	250.00	CY	103.95	25,988	
2032.000	Interior Demolition - Strip Walls & Clg GWB,	238,130.00	SF	8.00	1,905,040	
0000 400	Flooring, Casework, MEP	70.00		400.04	0.004	
2032.100	Remove gypsum fireproofing from exist	70.00	EA	138.31	9,681	
2022 550	columns for structural upgrades Roof Penetrations - Roof Top Units	37.00	EA	838.08	31,009	
	Remove Membrane	111,649.00	SF	0.84	93,573	
	Remove Curtain Wall	28,000.00	SF	2.10	58,666	
	) - BUILDING ELEMENTS DEMO	20,000.00	O.	2.10	2,123,957	
	SELECTIVE BUILDING DEMOLIT				2,123,957	
C40 CI7	TE DDEDADATION				· ·	
	TE PREPARATION					
	- SITE DEMOLITION	020 500 00	CF.	0.10	27 007	
	Demo Bit Conc Pvmt - Large Area Demo Bit Conc Pvmt - Large Area (For Animal	230,562.00 6,000.00	SF SF	0.16 0.16	37,927 987	
2013.240	Barn)	0,000.00	SF	0.10	907	
2013 280	Demo Conc Walk	11,800.00	SF	0.63	7,414	
	0 - SITE DEMOLITION	11,000.00	O.	0.00	46,328	
					.,.	
	- EARTHWORK	4.00	1.0	20,000,00	00.000	
	Misc Erosion Control	1.00 1.00	LS LS	20,000.00 25,000.00	20,000 25,000	
	Site Access/Laydown Dewatering	1.00	LS	8,000.00	8,000	
	0 - EARTHWORK	1.00	LO	0,000.00	53,000	
	SITE PREPARATION				99,328	
C20 C17	TE IMPROVEMENTS				·	
	- SITE PAVING	00 525 00	CV	0.22	5 240	
	Compact Road Subgrade Fine Grade Road Subgrade	22,535.22 22,535.22	SY SY	0.23 1.04	5,219 23,482	
	Added 2" for Heavy Duty Paving - Lot C	408.00	TONS	110.00	44,880	
2000.200	(33,106 SF)	400.00	10110	110.00	44,000	
2600.200	Bituminous Concrete P3.96g (4")	4,961.72	TON	110.00	545,789	
2600.201	22535.22	1.00	EACH		·	
	**Paved Area**	22,535.22	SY			
	Grading For Curbs	5,000.00	LF	2.68	13,400	
	Bituminous Curbs	5,000.00	LF	2.25	11,250	
	Bituminous Sidewalk **Bituminous Sidewalk Area**	203.87	TON SF	110.00	22,425	
	0 - SITE PAVING	11,001.00	SF		666,444	
					000,444	
	- LANDSCAPING					
	Landscaping	1.00	LS	120,000.00	120,000	
10000.010		1.00	EA	2,277.73	2,278	
	0 - LANDSCAPING SITE IMPROVEMENTS				122,278	
					788,722	
	TE UTILITIES					
	- SITE UTILITIES					
	Water Line	800.00	LF	54.08	43,264	
	Sanitary Sewer	800.00	LF	52.08	41,664	
2540.118	Prim/Sec Electrical/Telcom Trenching	900.00	LF	32.08	28,872	
				l	i	I



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Project Size: 268,330 SF Detail - With Taxes and Insurance

Item Code	Description	Quantity	UM	Total UnitCost	Total Cost	
Code				UnitCost	Cost	
2540.120	Reconfigure Natural Gas (Assumes existing size is adequate)		LS	15,000.00		
2540.122	Reconfigure Storm Drainage	1.00	LS	30,000.00	30,000	
2540.124	Alter Underdrain at existing ball field for CTC building	1.00	LS	10,000.00	10,000	
2580.110	Elec Trench-Direct Burial (Site Lighting)	3,600.00	LF	8.04	28,944	
	Elec Trench-Duct Bank (Secondary/Primary Under Roads)	140.00	LF	12.32	1,725	
2580.130	Elec Ductbank Forms	560.00	SF	4.42	2,473	
2580.140	Elec Ductbank Concrete	48.53	CY	121.08	5,876	
2580.300	Grease Interceptor, Steel, 50 GPM, 100 LB Fat Capacity	1.00	EA	9,983.05	9,983	
2580.302	Grease Interceptor, Steel, 250 GPM, 500 LB Fat Capacity	1.00	EA	26,127.79	26,128	
	0 - SITE UTILITIES SITE UTILITIES				228,929 228,929	
Z10 - GE	NEDAL				7,	
	GENERAL CONDITIONS					
	***DESIGN & ENGINEERING FEES BY CITY OF DOVER***					
0100 000	Mobilize / Demobilize	1.00	LS	28,000.00	28,000	
	Office Supplies	334.00	WK	150.00	50,100	
	Office Furniture / Systems	1.00	LS	48,000.00	48,000	
	Engineer's Furniture / Equipment - N/A	1.00	LS	10,000.00	10,000	
	Engineer's Computer / Software - N/A		LS			
	Project Kiosk 30" - Purchase	4.00	EA	5,000.00	20,000	
	Janitorial Services	334.00	WK	80.00	26,720	
	Temporary Wiring	1.00	LS	3,000.00	3,000	
	Electrical Energy Costs	76.00	MO	450.00	34,200	
	Water Usage Costs	76.00	MO	200.00	15,200	
	Telephone / Communication	76.00	MO	1,000.00	76,000	
	Sanitary / Facilities	76.00	MO	1,500.00	114,000	
	Security / Watchman		WK			
	Photographs	4.00	MO	15 000 00	15 000	
	Documents & Reproductions Estimating - GMP	1.00 1.00	LS LS	15,000.00 50,000.00	15,000 50,000	
	Officer in Charge	1.00	MW	7,000.00	50,000	
	Construction Executive	17.00	MW	5,400.00	91,800	
	Senior Project Manager	68.00	MW	4,720.00	320,960	
	Project Manager	200.00	MW	3,800.00	760,000	
	Senior Project Engineer		MW	2,880.00	,	
	Project Engineer (Full Time)	334.00	MW	2,400.00	801,600	
0120.022	Office Engineer		MW	1,920.00		
	Senior Superintendent	334.00	MW	4,720.00	1,576,480	
	Project Superintendent	84.00	MW	3,720.00	312,480	
	Construction Coordination - SCP		MW	2,400.00		
	Scheduling Engineer		MW	2,280.00		
	Safety Manager	07.00	MW	3,720.00	450.700	
	Safety Engineer (1 Days/Week)	67.00	MW	2,280.00	152,760	
	Administration	200.00	MW MWK	1,720.00 400.00	344,000	
	Living Allowance - Management Living Allowance - Foremen	501.00	MWK	125.00	200,400	
	Travel and Expenses	76.00	MO	600.00	45,600	
	Scheduling	1.00	WK	2,280.00	2,280	
	Permit's & Fee's	1.00	LS	2,200.00	2,200	
	Building Permit - Excluded		LS		<b> </b>	
	Design (Means & Methods)		LS		<b> </b>	
	Professional Services		LS			
	Equipment Trucking		WK			



Job #: 15027

Project Size: 268,330 SF Detail - With Taxes and Insurance

Item Code	Description	Quantity	UM	Total UnitCost	Total Cost
0150.250	Off - Site Parking		WK		
0150.500	Personnel Elevator		MO		
0150.520	Field Office	76.00	TM	1,200.00	91,200
	Engineer / Architect Office		TM	400.00	
	Storage Trailers (2 Trailers)	152.00	TM	150.00	22,800
	Sub Bonds (Include w/ Subs)		LS		
0180.010	Gross Receipts Tax		LS		
0180.020	Sales Tax		LS		
*** Total Z1010	) - GENERAL CONDITIONS				5,202,580
Z1020 -	GENERAL REQUIREMENTS				
	Materials Testing		LS		
	Snow Removal	1.00	LS	40,000.00	40,000
	Field Engineering	4.00	WK	5,000.00	20,000
	Temporary GWB Partitions	48.300.00	SF	7.80	376,740
	ICRA / ILSM - N/A	10,000.00	LS	7.00	070,710
	Scaffolding - In COW		LS		
	OSHA / First Aid	334.00	WK	771.89	257,812
	Material Handling	334.00	WK	940.00	313,960
	Cranes - In COW	334.00	CM	340.00	310,300
	Progress Cleanup (Labor & Dumpster)	334.00	WK	707.04	236,151
	Final Cleanup	268,330.00	SF	0.45	120,749
	Temporary Heat	1.00	LS	175.000.00	175,000
		1.00	LS	150,000.00	150,000
	Temporary Enclosure	1.00	LS	150,000.00	150,000
	Support Equipment	4.00		000,000,00	000,000
	Sub Mobilization Costs	1.00	LS	600,000.00	600,000
** Total Z1020	) - GENERAL REQUIREMENTS GENERAL				2,290,412 7,492,992
		ENTO			1,102,002
	JOR CUSTOM PROGRAM ELEM - MAJOR CUSTOM PROGRAM EI				
		LEWIENTS	1.0	06 000 00	
0000.002	Precon Services - N/A (Included under		LS	96,000.00	
0000 500	separate contract)	4.00	1.0	4 000 000 00	4 000 000
	Asbestos Abatement Contract	1.00	LS	1,300,000.00	1,300,000
	Asbestos Abatement - 5% Increase per year	1.00	LS	359,166.00	359,166
	Replace existing football field with turf	1.00	LS	750,000.00	750,000
11400.001	Kitchen Equipment	1,820.00	SF	150.00	273,000
	Modular Classroom Rental - 16 EA for 78 Months (ModSpace)	78.00	Мо	12,000.00	936,000
	Modular Classroom Delivery/Install (ModSpace)	16.00	EA	36,000.00	576,000
	Modular Classroom Tear Down (ModSpace)	16.00	EA	16,000.00	256,000
*** Total Z2010	) - MAJOR CUSTOM PROGRAM				4,450,166
** Total Z20 - I	MAJOR CUSTOM PROGRAM EL				4,450,166
	1 - Complete Renovation			[	49,932,184
Total Gross C	ost			<b> </b>	49,932,184

<b>A</b>	Dover High School - Option #1 - Full Re	novation - Estimat	e Comparison	
CONSTRUCTION		PC	РМ&С	Cost Variance
	High School Total	\$64,417,847	\$65,141,515	\$723,668
A1010	Standard Foundations	\$586,118	\$281,788	-\$304,330
A1020	Special Foundations	\$392,400	\$566,000	\$173,600
A1030	Lowest Floor Construction	\$747,366	\$659,778	-\$87,588
B1010	Floor Construction	\$570,000	\$820,825	\$250,825
B1020	Roof Construction	\$276,199	\$448,000	\$171,801
B2010	Exterior Walls	\$1,156,462	\$918,878	-\$237,584
B2020	Windows	\$2,127,120	\$2,052,062	-\$75,058
B2030	Exterior Doors	\$140,785	\$182,490	\$41,705
B3010/302	Roof Coverings & Openings	\$361,327	\$481,000	\$119,673
C1010	Partitions	\$1,166,993	\$1,423,750	\$256,757
C1020	Interior Doors	\$697,003	\$794,250	\$97,247
C1030	Specialties / Millwork	\$2,135,630	\$2,163,748	\$28,118
C2010	Stair Construction	\$123,729	\$77,000	-\$46,729
C3010	Wall Finishes	\$874,439	\$1,059,000	\$184,561
C3020	Floor Finishes	\$1,914,998	\$2,080,534	\$165,536
C3030	Ceiling Finishes	\$1,182,465	\$1,330,822	\$148,357
D1010	Elevator	\$199,423	\$122,500	-\$76,923
D2010	Plumbing	\$2,359,536	\$2,485,125	\$125,589
D3010	[HVAC	\$8,870,778	\$8,585,251	-\$285,527
D4010	Fire Protection	\$970,299	\$926,625	-\$43,674
D5010	Electrical	\$7,157,151	\$7,433,138	\$275,987
E1010	Equipment, Generally	\$509,818	\$980,800	\$470,982
E2010	Fixed Furnishings	\$211,477	\$288,399	\$76,922
F10	Special Construction	\$16,574	\$425,000	\$408,426
F2010	Building Elements Demolition	\$2,123,957	\$2,125,232	\$1,275
G1020/103	Site Demolition & Earthwork	\$99,328	\$2,793,500	\$2,694,172
G2010	Site Paving	\$666,444		-\$666,444
G2050	Landscaping	\$122,278		-\$122,278
G3010	Site Utilities	\$228,929		-\$228,929
Z1010	General Conditions	\$5,202,580	\$5,202,580	\$0
Z1020	General Requirements	\$2,290,412	\$1,690,412	-\$600,000
Z2010	Major Custom Program Elements	\$4,450,166	\$4,205,000	-\$245,166
	Option #1 Total Direct Cost	\$49,932,184	\$52,603,487	\$2,671,303
		Ţ.U,UUZ,1UT	+ ,	Ţ <b>=</b> ,0. 1,000

Dover High School - Option #1 - Full Renovation - Estimate Comparison							
Labor and Material Escalation	\$6,266,929	\$3,382,139	-\$2,884,790				
Builders Risk Insurance	\$43,993		-\$43,993				
Liability Insurace	\$483,135	\$444,114	-\$39,021				
Construction Manager's Contingency (PC @ 10%)	\$5,619,911	\$7,090,491	\$1,470,580				
P & P Bond	\$500,528	\$283,591	-\$216,937				
CM Fee (2.5%)	\$1,571,167	\$1,337,693	-\$233,474				
Option #1 Total Indirect Cost	\$14,485,663	\$12,538,028	-\$1,947,635				
Option #1 Total Gross Cost	\$64,417,847	\$65,141,515	\$723,668				



#### **OPTION 2 - Partial Renovation with Addition**

#### **ESTIMATE SUMMARY**

Project #: 15027 Building GSF: 303,000

			Totals
Direct Cost		%	\$ 60,606,764
	Material Sales Tax (N/A)	0.00%	\$ _
	Labor & Material Escalation	0.00%	\$ -
Gross Cost			\$ 60,606,764
	Building Permit - by Owner	0.00%	\$ _
	Builder's Risk insurance	0.07%	\$ 46,064
	Liability Insurance	0.75%	\$ 505,875
	Construction Manager's Contingency	7.00%	\$ 4,242,473
	P & P Bond (\$5.99 per \$1,000)		\$ 404,026
	Sub Total		\$ 65,805,202
	CM Fee	2.50%	\$ 1,645,130
Total			\$ 67,450,000
Total Cost p	oer square foot		\$ 223



CONSTRUCTION

Job #: 15027 Project Size: 303,000 SF Recap - With Taxes and Insurance

Item Description	Quantity	UM	Total	Total	
Code			UnitCost	Cost	_
Option 2 - Partial Renovation with Add	lition				
A10 - FOUNDATIONS				4,339,527	
B10 - SUPERSTRUCTURE				6,288,028	
B20 - EXTERIOR CLOSURE				6,167,022	
B30 - ROOFING				1,793,174	
C10 - INTERIOR CONSTRUCTION				5,803,467	
C20 - STAIRCASES				331,790	
C30 - INTERIOR FINISHES				4,159,973	
D10 - CONVEYING SYSTEMS				199,423	
D20 - PLUMBING				2,659,492	
D30 - HVAC				8,104,390	
D40 - FIRE PROTECTION				974,143	
D50 - ELECTRICAL				6,867,084	
E10 - EQUIPMENT				511,736	
E20 - FURNISHINGS				246,257	
F10 - SPECIAL CONSTRUCTION				326,474	
F20 - SELECTIVE BUILDING DEMOLITION				1,465,023	
G10 - SITE PREPARATION				692,468	
G20 - SITE IMPROVEMENTS				1,576,630	
G30 - SITE UTILITIES				484,555	
Z10 - GENERAL				4,831,941	
Z20 - MAJOR CUSTOM PROGRAM ELEMEN				2,784,166	
* Total Option 2 - Partial Renovation with Add				60,606,764	
Total Gross Cost				60,606,764	
		•	<b>'</b>	,,	



**CONSTRUCTION** 

Job #: 15027 Project Size: 303,000 SF Detail - With Taxes and Insurance

Item Code	Description	Quantity	UM	Total UnitCost	Total Cost	
Ontion 2	Double Deposition with Addition					
-	Partial Renovation with Addition DUNDATIONS					
	- STANDARD FOUNDATIONS					
	Structure Excavation	4,000.00	CY	12.13	48,510	
	Structure Excavation (Barn Addition)	300.00	CY	12.13	3,638	
	Structure Excavation (Site Retaining Wall)	1,200.00	CY	12.13	14,553	
	BF Foundation Wall w/ Crushed Stone (Site Retaining Wall)	1,600.00	CY	37.51	60,016	
	BF Frost Wall w/ Crushed Stone	2,600.00	CY	37.51	97,526	
	BF Frost Wall w/ Crushed Stone (Barn Addition)	180.00	CY	37.51	6,752	
	BF Frost Wall w/ On Site Matl	2,200.00	CY	17.51	38,522	
	BF Frost Wall w/ On Site Matl (Barn Addition)	180.00	CY	17.51	3,152	
	4" PVC Footing Drains (Addition only)	4,300.00	LF	14.00	60,200	
	8" x 16" Continuous Footing (Barn Addition)	294.00	LF	32.30	9,496	
	1' x 3' Continuous Footing 1' x 5' Continuous Footing (Site Retaining	3,325.00 3,325.00	LF LF	44.20 55.25	146,965 183,706	
	Wall)					
	3' x 3' x 1' Isolated Footing	69.00	EA	242.25	16,715	
	1' x 3' Grade Beam - At H Piles 2' x 2' x 1'-6" Pile Cap Concrete	2,578.00 48.00	LF EA	44.20 182.75	113,948 8,772	
	8" x 5' Frost Wall (Barn Addition)	294.00	LF	105.40	30,988	
	12" x 5' Frost Wall	3,017.00	LF	128.35	387,232	
	12" x 8' Foundation Wall	290.00	LF	191.25	55,463	
	12" x 13' Site Retaining Wall	315.00	LF	350.20	110.313	
	18" x 4' Concrete Pier with 2' x 2' x 1' Footing (50' Dia Riding RIng)	14.00	EA	273.63	3,831	
3300.156	1' x 1' - 5' Pilaster	79.00	EA	178.50	14,102	
7110.100	Damproof Frost Wall	17,405.00	SF	1.50	26,108	
7110.100	Damproof Frost Wall (Barn Addition)	1,323.00	SF	1.50	1,985	
7200.105	Rigid Insulation - 2" Frost Wall	17,405.00	SF	2.08	36,269	
	Rigid Insulation - 2" Frost Wall (Barn Addition) <b>0 - STANDARD FOUNDATIONS</b>	1,323.00	SF	2.08	2,757 <b>1,481,516</b>	
A1020	- SPECIAL FOUNDATIONS					
	HP10 Steel Piles - 30' Grid, 3 piles per location: 144 @ 30' Deep (Adjacent to	4,320.00	LF	60.00	259,200	
2492.105	Gym/Auditorium) Aggregate Piers - 8' Grid: 418 @ 20' Deep	8,360.00	LF	97.01	811,000	
*** Total A102	(Northeast corner of Addition) 0 - SPECIAL FOUNDATIONS				1,070,200	
	- LOWEST FLOOR CONSTRUCTIO		01/		100.010	
	Crushed Stone Under Slab - 8" Crushed Stone Under Slab - 8" (Barn Addition)	4,800.00 200.00	CY CY	37.51 37.51	180,048	
	15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams	64,000.00	SF	0.71	7,502 45,626	
3250.451	15 Mil Stego Wrap Under Slab Vapor Barrier - Taped Seams (Barn Addition)	6,710.00	SF	0.71	4,784	
3300.006	4" SOG (Non pile/pier areas)	75,867.00	SF	6.55	497,217	
	10" SOG - (Agg Pier Areas)	26,106.00	SF	11.90	310,674	
	10" SOG - (H Pile Areas)	46,032.00	SF	11.90	547,804	
	5" SOG - (Barn Addition)	6,100.00	SF	7.40	45,163	
3300.012	Alter Auditorium Floor for ADA compliance	15,500.00	SF	8.71	135,011	
7200.108	Rigid Insulation - 2" Underslab (Barn Addition)	6,710.00	SF	2.08	13,982	
	0 - LOWEST FLOOR CONSTRU FOUNDATIONS				1,787,811 4,339,527	
R10 - 91	IPERSTRUCTURE					
	- FLOOR CONSTRUCTION					
D1010	- FLOOK CONSTRUCTION					



**CONSTRUCTION** 

Job #: 15027 Project Size: 303,000 SF

Detail - With Taxes and Insurance

Item	Description	Quantity	UM	Total	Total	
Code	Description	Quantity	OW	UnitCost	Cost	
2000 015	Trowal Finish (SOD)	78,210.00	SF	0.56	43,571	
	Trowel Finish (SOD)	,				
	Protect & Cure	78,210.00	SF	0.10	7,571	
	Re-Steel @ Slabs On Metal Deck	31,066.75	LB	0.79	24,543	
	6x6 4/4 Wwf	86,031.00	SF	0.78	67,104	
3200.350	Wire Mesh Accessories	78,210.00	SF			
3300.033	Slab On Metal Deck Concrete	1,242.67	CY	36.57	45,446	
3300.115	3000 Psi Concrete	1,242.67	CY	98.00	121,782	
	Concrete Pumping	1,242.67	CY	8.00	9,941	
	Structural Steel at Addition - 12 lbs/ sf	1,361.00	TON	3,100.00	4,219,100	
	2"X20ga Painted Mtl Deck	86,031.00	SF	1.95	167,760	
	Spray Fireproofing - Roof Deck (New Only)	148,005.00	SF	1.50	222,008	
7850.001	Spray Fireproofing - Structural Steel (New Only)	226,925.00	SF	2.50	567,313	
*** Total B101	0 - FLOOR CONSTRUCTION				5,496,138	
B1020	- ROOF CONSTRUCTION					
	Steel Joists (2 lbs/ SF)	123.00	TON	1,800.00	221,400	
		28.00	TON			
	Steel Joists (2 lbs/ SF) CTC			1,800.00	50,400	
	1-1/2"X20ga Galv Mtl Deck	141,302.00	SF	1.70	240,213	
	1-1/2"X20ga Galv Mtl Deck CTC	32,600.00	SF	1.70	55,420	
	Miscellaneous Metals (Angle at Roof Curb)	1.00	LS	15,000.00	15,000	
6000.500	Roof Trusses w/ sheathing (Barn Addition)	6,100.00	SF	8.00	48,800	
6000.510	Pavilion Framing (50' Dia Riding Ring)	3,300.00	SF	18.38	60,657	
	Entrance Canopy	2.00	EA	50,000.00	100,000	
	0 - ROOF CONSTRUCTION				791,890	
	SUPERSTRUCTURE				6,288,028	
	- EXTERIOR WALLS Repair/Repoint existing masonry veneer	5,000.00	SF	18.00	90,000	
4070 000	(Locations unknown)	72 500 00	CE	24.00	4.705.000	
	Brick Veneer (70% Envelope)	73,580.00	SF	24.00	1,765,920	
	2x6 Partitions w/ 1/2" OSB Sheathing - 12' Ht (Barn Addition)	3,880.00	SF	4.60	17,836	
	T&G Siding - Red Cedar (6" Exposure) (Barn Addition)	3,880.00	SF	8.00	31,036	
	3" Spray Foam Insulation (R-21)	73,564.72	SF	3.00	220,694	
	3" Spray Foam Insulation (R-21) - East Wall Infill	18,200.00	SF	3.00	54,600	
7260.120	Air Infiltration Barrier - Fluid Applied	73,580.00	SF	2.50	183,950	
7260.120	Air Infiltration Barrier - Fluid Applied - East Wall Infill	18,200.00	SF	2.50	45,500	
9280.051	6" LGS Stud w/ 5/8" GWB and 5/8" Densglass - Ext Partitions	73,580.00	SF	12.42	913,621	
9280.051	6" LGS Stud w/ 5/8" GWB and 5/8" Densglass - Ext Partitions - East Wall Infill	18,200.00	SF	12.42	225,984	
	Roof, Ext Wall Expansion Joints 0 - EXTERIOR WALLS	500.00	LF	157.08	78,539 <b>3,627,680</b>	
B2020	- WINDOWS					
8800.800	Curtainwall (30% Envelope)	31,920.00	SF	75.00	2,394,000	
8800.840	Barn Windows (Barn Addition)	10.00	EA	600.00	6,000	
*** Total B202	0 - WINDOWS `				2,400,000	
B2030	- EXTERIOR DOORS					
	Sliding Barn Door (Barn Addition)	3.00	EA	1,788.76	5,366	
	3070 Exterior Door	20.00	EA EA	1	I	
				1,404.76	28,095	
	3070 HM Door (Barn Additon)	8.00	EA	1,104.76	8,838	
	6070 Exterior Door	16.00	EA	2,065.16	33,043	
	Overhead Door	2.00	EA	8,000.00	16,000	
	Overhead Door (AT, AC, BT)	6.00	EA	8,000.00	48,000	
*** Total B203	0 - EXTERIOR DOORS			1	139,342	



**CONSTRUCTION** 

Job #: 15027 Project Size: 303,000 SF Detail - With Taxes and Insurance

Item Code	Description	Quantity	UM	Total UnitCost	Total Cost	
** Total B20 -	EXTERIOR CLOSURE				6,167,022	
B30 - RC	OCEING					
	- ROOF COVERINGS	7 000 00	15	7 70	EE 004	
	Roof edge blocking	7,200.00	LF CF	7.78	55,981	
	12" Batt Insulation (R38) (Barn Addition) Asphalt Single Roof (50' Dia Riding Ring)	8,020.00	SF SF	1.15 5.79	9,217	
	Asphalt Single Roof (Barn Addition)	3,300.00 8,020.00	SF SF	5.79	19,119 46,465	
	Thermoplastic Membrane Roof	151,209.00	SF SF	10.50	46,465 1.587.695	
7530.020	Entrance Canopy Roof	2.00	EA	30,000.00	60,000	
	0 - ROOF COVERINGS	2.00	LA	30,000.00	1,778,475	
	- ROOF OPENINGS				, , ,	
	4' Sq Hatch Cover - Stainless Steel	2.00	EA	7,349.20	14,698	
	0 - ROOF OPENINGS	=		,,,,,,,,,	14,698	
** Total B30 -	ROOFING				1,793,174	
C10 - IN	TERIOR CONSTRUCTION					
_	- PARTITIONS					
	Miscellaneous Metals (Angle at CMU	1.00	LS	15,000.00	15,000	
0000.000	Partitions)	1.00	20	10,000.00	10,000	
6010.000	In Wall Blocking	1.00	LS	74,437.84	74,438	
	Glazed Partitions	2,200.00	SF	60.00	132,000	
9270.001	Tape Gypsum Walls - Level 4 (String coat, 2	461,605.00	SF	0.75	346,204	
0000 000	finish coats, sanding)	450.00	SF	30.00	13 500	
9200.030	Classroom Fit Up (Barn Addition) 2 - Classrooms	450.00	SF	30.00	13,500	
9285.005	LGS Partitions w/ 5/8" GWB, Sound Batt -	230,803.00	SF	8.61	1,987,468	
9285.013	LGS Furred Partition - Interior	13,440.00	SF	5.09	68,461	
	Fire Stopping	1.00	LS	20,000.00	20,000	
	Fire Stopping	1.00	LS	55,000.00	55,000	
	Misc Drywall Work	1.00	LS	40,000.00	40,000	
	Misc Drywall Work	1.00	LS	10,000.00	10,000	
*** Total C101	0 - PARTITIONS				2,762,070	
C1020	- INTERIOR DOORS					
8012.010	3070 Interior Door	466.00	EA	1,204.76	561,418	
8012.020	6070 Interior Door	79.00	EA	1,765.16	139,448	
8014.000	Corridor Lock Down Hardware	1.00	LS	50,000.00	50,000	
8014.020	Interior Borrowed Lites	55.00	EA	609.52	33,524	
	Misc Painting - Door Frames, Misc Metals	1.00	LS	10,000.00	10,000	
	Misc Painting - Door Frames, Misc Metals	1.00	LS	40,000.00	40,000	
*** Total C102	0 - INTERIOR DOORS				834,390	
C1030	- SPECIALTIES / MILLWORK					
	6'-0" Laminated Maple Bench	20.00	EA	992.58	19,852	
6400.004	Base Cabinets (Classrooms)	844.00	LF	266.10	224,592	
6400.052	Full Height Cabinets (Classrooms)	372.00	LF	306.10	113,871	
6400.052	Wall Cabinets (Classrooms)	620.00	LF	191.10	118,484	
6400.054	Full Height Cabinets (Mail Room)	24.00	LF	306.10	7,346	
	Restroom Wood Apron at Solid Surface	216.00	LF	159.92	34,543	
6400.300	Solid Surface Restroom Counter w/ integral	216.00	LF	221.90	47,931	
6400 300	sink Countertops-Solid Surface (Classrooms)	844.00	LF	404.40	464 000	
	Wall Mount Solid Surface (Classrooms)	844.00 71.00	LF LF	191.10 216.10	161,292 15,343	
0400.300	Room)	71.00		210.10	13,043	
	Countertops - Epoxy Resin	520.00	LF	161.64	84,051	
6400.348	Solid Surface Window Sill and Apron (New Const Only)	2,100.00	LF	64.26	134,941	
6401.052	Wall Cabinets - Solid Surface (Science Labs)	390.00	LF	161.65	63,042	



**CONSTRUCTION** 

Job #: 15027 Project Size: 303,000 SF Detail - With Taxes and Insurance

Item Code	Description	Quantity	UM	Total UnitCost	Total Cost	
6401.054	Full Height Cabinets - Solid Surface (Science	390.00	LF	255.73	99,734	
	Labs)					
	Wood Cubbies - Mail Room	24.00	LF	251.10	6,026	
	Casework Allowance (Misc)	1.00	LS	231,000.00	231,000	
	Closet Shelving	1.00	LS	10,000.00	10,000	
	*** DESK MILLWORK***	04.00	. =	444.40	40.074	
	Admin/Guidance Front Desk	31.00	LF	441.10	13,674	
	Library Desk	78.00	LF	491.10	38,306	
	FRP Panels 10' ht - Kitchen	3,518.00	SF	7.14	25,133	
	FRP Panels 8' ht - at Janitorial sinks only	1,510.22	SF SF	7.14	10,789	
	FRP Panels - Art Rooms	80.00	SF EA	7.14	572	
	Toilet Partitions W/ Door - Phenolic Urinal Screen - Phenolic	43.00 10.00	EA EA	430.52 305.52	18,512	
	Shower Door	18.00	EA	277.76	3,055 5,000	
	Locker Room Bench	120.00	LF	80.28	9,633	
	Privacy Curtain: Track W/Supports (No	64.00	LF	22.50	1,440	
	Curtain) - Nurse					
	Display & Trophy Case Allowance	1.00	LS	40,000.00	40,000	
10410.150		1.00	LS	10,000.00	10,000	
10410.150		1.00	LS	78,000.00	78,000	
	Staff Lockers - Single Tier (3' X 15" X 15") - Kitchen	15.00	EA	180.55	2,708	
10500.002	Staff Lockers - Single Tier (3' X 15" X 15") - Staff	100.00	EA	180.55	18,055	
10500.004	Lockers - Double Tier (6' X 18" X 18") - Student	1,500.00	EA	270.55	405,819	
10500.006	Lockers - Double Tier - Locker Rooms (100 per Room)	200.00	EA	270.55	54,109	
10500.006	Lockers - Double Tier - Student Athletic	50.00	EA	270.55	13,527	
	Fire Extinguishers	98.00	EA	125.46	12,295	
	Fire Ext Cabinets	98.00	EA	302.76	29,670	
10649.102	Operable Wall Partition (57' L x 28' HT)		SF	99.95		
10800.106		36.00	EA	101.38	3,650	
	Surface Mtd Double Roll Tph	26.00	EA	197.38	5,132	
	Surface Mounted SND	20.00	EA	377.38	7,548	
	Surf Mtd Waste Receptacle	22.00	EA	282.38	6,212	
10800.400	Liquid Soap Dispenser	22.00	EA	177.38	3,902	
	Folding Shower Seat	18.00	EA	301.38	5,425	
	Electric Hand Dryer	20.00	EA	301.38	6,028	
	30"x30" Framed Mirror	32.00	EA	211.38	6,764	
	0 - SPECIALTIES / MILLWORK Interior Construction				2,207,007 5,803,467	
	AIRCASES					
	- STAIR CONSTRUCTION		****			
	****Metal Stairs****	400.00		400.07	00.407	
	Metal Pan Stair - Standard	192.00	TRD	433.27	83,187	
	Metal Pan Stair - Town Center	40.00	TRD	433.27	17,331	
	Metal Pan Stair Landing - Standard	236.00	SF	71.60	16,897	
	Metal Pan Stair Landing - Town Center *** Handrails & Railings ***	236.00	SF ****	71.60	16,897	
	Hand Rail - Standard Metal Picket	270.00	LF	119.42	32,244	
5520.050	Hand Rail - Town Center	140.00	LF	229.42	32,119	
	Steel Wallrail - Standard	270.00	LF	65.93	17,801	
	Drywall Partition	12,320.00	SF	9.36	115,315	
	0 - STAIR CONSTRUCTION				331,790	
** Total C20 - 3	STAIRCASES				331,790	
	TERIOR FINISHES - WALL FINISHES					



**CONSTRUCTION** 

Job #: 15027
Project Size: 303,000 SF
Detail - With Taxes and Insurance

Item	Description	Quantity	UM	Total	Total	
Code				UnitCost	Cost	
0000 040		44 500 00	0.5	05.00	200 000	
	Wood Wall Finish - Auditorium	11,520.00	SF	25.00	288,000	
	Tile Wainscot - 4' AFF (Corridors)	17,000.00	SF	10.00	170,000	
	Tile Wainscot - 4' AFF (Town Square)	2,800.00	SF	10.00	28,000	
	Tile Wainscot - 4' AFF (Toilet Rooms)	4,550.00	SF	10.00	45,500	
9300.204	Tile Wainscot - Premium for 5' AFF	6,088.00	SF	10.00	60,880	
0000 100	everywhere including stairwells	3,528.00	SF	0.82	2,893	
	Paint Interior Walls (Barn Addition) Paint Walls	383.700.00	SF SF	0.85	· · · · · · · · · · · · · · · · · · ·	
	Interior Expansion Joint Covers	80.00	SF LF	107.08	326,145 8,566	
	0 - WALL FINISHES	00.00	LF	107.08	929,984	
					323,304	
	- FLOOR FINISHES					
	Tile Base	783.00	LF	10.00	7,830	
	Quarry Tile Floors - Culinary	3,900.00	SF	15.00	58,500	
	Quarry Tile Floors - Kitchen	5,030.00	SF	15.00	75,450	
	Quarry Tile Base	682.00	LF or	12.00	8,184	
	Mosaic Tile - Bath, Locker Rooms	5,750.00	SF	12.00	69,000	
	Wood Floor - Gym	13,710.00	SF SF	18.00	246,780	
9650.010	Wood Floor - Stage	2,620.00	SF SF	16.00	41,920	
	Rubber Base	192,650.00 38,389.00	SF LF	6.00 1.85	1,155,900 71,020	
	Rubber Treads & Risers	5,820.00	SF	14.00	81,480	
	Carpet - Auditorium	1,722.00	SY	35.00	60,270	
	Carpet Tile	1,260.00	SY	35.00	44,100	
	Rubber Sports Flooring	4,620.00	SF	12.45	57,507	
	Moisture Mitigation - N/A per HMFH	4,020.00	SF	4.00	31,301	
	Sealed Concrete	36,830.00	SF	1.50	55,245	
	Sealed Concrete (Barn Addition)	6,100.00	SF	1.50	9,150	
	Paint Gym Floor Logo	1.00	LS	3,000.00	3,000	
	Walk-Off Foot Grilles (Alum Grid W/ Frame &	110.00	SF	72.08	7,929	
	Pan)		0.	. =.00	.,025	
*** Total C302	0 - FLOOR FINISHES				2,053,264	
C3030	- CEILING FINISHES					
	Gypsum Ceiling: Suspended drywall grid 5/8"	18,890.00	SF	5.31	100,251	
3203.007	type X GWB (1 layer), taped (lvl 4)	10,030.00	OI .	0.01	100,231	
9285 039	Misc Drywall Soffits	1.00	LS	110,000.00	110,000	
	Misc Drywall Soffits	1.00	LS	40,000.00	40,000	
	ACT - Auditorium	15,500.00	SF	5.00	77,500	
9500.100	ACT - Auditorium (N/A per HMFH)	-15,500.00	SF	5.00	-77,500	
9500.102		191,000.00	SF	3.00	573,000	
	ACT(Cleanable) - Kitchen	8,930.00	SF	8.00	71,440	
9500.200	24x24x5/8 Lay-In (Barn Addition)	450.00	SF	3.00	1,350	
	Acoustical Wood Clouds - Auditorium	1.00	LS	40,000.00	40,000	
9500.612	Tectum Ceilng Panels - 2"	6,870.00	SF	8.00	54,960	
9900.110	Paint Ceilings	18,890.00	SF	0.85	16,057	
9900.120	Paint Exposed Ceiling Structure	63,570.00	SF	1.75	111,248	
9900.625	Paint exposed ceiling - Gym	13,710.00	SF	2.00	27,420	
	Paint exposed ceiling - Auditorium	15,500.00	SF	2.00	31,000	
	0 - CEILING FINISHES				1,176,725	
** Total C30 - I	INTERIOR FINISHES				4,159,973	
D10 - CC	NVEYING SYSTEMS					
	- ELEVATOR					
	12" Base Slab	128.00	SF	14.42	1,846	
	12" x 5' Foundation Wall	72.00	LF	128.35	9,241	
	Elevator Pit Misc Metals	2.00	EA	1,813.09	3,626	
	Drywall Partition	2,640.00	SF	9.36	24,710	
	Hydraulic Passenger Elevator (1 Ea)	4.00	STOP	40,000.00	160,000	
	0 - ELEVATOR			·	199,423	
** Total D10 - (	CONVEYING SYSTEMS				199,423	
					1	



Job #: 15027

Project Size: 303,000 SF Detail - With Taxes and Insurance

Item Code	Description	Quantity	UM	Total UnitCost	Total Cost
)20 - PI	UMBING				
	LUMBING				
	Domestic Water Heater, Residential Gas-Fired (NG/P) Atmospheric, Foam Lined Tank, Vent Not Included, 100 Gal.	2.00	EA	1,846.55	3,693
15401.338	Domestic Water Heater, Commercial Gas- Fired (NG/P) Atmospheric, Std. Controls, Vent Not Included, 250 MBH Input, 245 GPH	2.00	EA	20,161.00	40,322
15401.554	Potable Water Storage Tank, Indoor, Glass- Lined PE, 605 Gal., 48" OD, 87" Long	1.00	EA	14,258.38	14,258
15401.556	Round, Stainless Steel, 26 ga., 8" OD - Water Heater Vent	120.00	LF	28.30	3,396
15402.452	Sump Pump, Wet-Pit Mounted, Vertical, Single Stage, 25 GPM, 1 HP, 1-1/2" Disch.	2.00	EA	4,055.67	8,111
15410.208	Comm. Water Closet, Floor Mounted VC, Flush Valve, Bowl only, incl. Seat, w/Floor Outlet 1.28 gpf ADA	60.00	EA	753.67	45,220
15410.210	Rough-In, Supply, Waste and Vent for Comm. Floor Mounted WC	60.00	EA	562.00	33,720
15410.404	Urinal, Wall Hung VC w/ Hanger and Valve, Water Saving 0.5 gpf	13.00	EA	843.38	10,964
15410.406	Rough-In, Supply, Waste and Vent for Wall Hung Urinal	13.00	EA	705.00	9,165
15410.640	Rough-In, Supply, Waste and Vent for Res. Vanity Top Lavatories	72.00	EA	547.00	39,384
15410.640	Rough-In, Supply, Waste and Vent for Salon Lavatories (no fixture)	10.00	EA	547.00	5,470
15410.698	Sink w/Faucet and Drain, SS Self Rimming, 43"x22" Double Bowl	28.00	EA	1,286.48	36,022
15410.702	Rough-In, Supply, Waste and Vent for Sinks	28.00	EA	702.00	19,656
	Laboratory Sink, Corrosion Resistant, 12"x12"x8" Sink, 14.5"x14.5" OD	44.00	EA	471.80	20,759
15410.832	Rough-In, Supply, Waste and Vent for Laboratory Sinks	44.00	EA	461.00	20,284
15410.834	Laboratory Faucet, Gooseneck Spout, Wrist Handles	44.00	EA	235.80	10,375
15410.840	Service Sink, Floor (Corner), PE, 28"x28" w/Rim Guard	14.00	EA	1,233.66	17,271
15410.844	Rough-In, Supply, Waste and Vent for Floor Service Sink	14.00	EA	1,827.00	25,578
15411.101	Hose Bibb, Exterior Freeze-Proof, Lockable	24.00	EA	105.40	2,529
15411.314	Stall Shower, One-Piece Fiberglass w/Three Walls, Drain Only, 32" Square	18.00	EA	645.94	11,627
15411.326	Thermostatic Valve for Shower	18.00	EA	585.00	10,530
15411.328	Rough-In, Supply, Waste and Vent for Shower	18.00	EA	818.00	14,724
	Emergency Shower, Single Head, Drench, Ball Valve, Pull Style, Freestanding, No Rough-In	8.00	EA	573.80	4,590
15411.908	Emergency Eyewash Fountain, SS Bowl, Pedestal Mount, No Rough-In	8.00	EA	533.80	4,270
15412.222	Electric Water Cooler, Wall Mounted, Full Recessed, SS, Bi-Level	21.00	EA	1,871.46	39,301
	Rough-In, Supply, Waste and Vent for Electric Water Cooler	21.00	EA	504.00	10,584
15412.434	Floor Drain, Heavy Ducty, Galvanized w/Sediment Bucket, 12" OD Grate, 2"-6" Pipe Size	24.00	EA	1,131.14	27,147
15412.730	Roof Drain, Integral Expansion Joint, Galvanized, 12" Dome, 4" Pipe Size	87.00	EA	1,074.20	93,455



**CONSTRUCTION** 

Job #: 15027

Project Size: 303,000 SF Detail - With Taxes and Insurance

Item Code	Description	Quantity	IIM	I Tatal		
			UM	Total UnitCost	Total Cost	
15412.730	Roof Drain, Integral Expansion Joint, Galvanized, 12" Dome, 4" Pipe Size -	87.00	EA	1,074.20	93,455	
15414.104	Emergency Water Meter, UL/FM Approved, 4" Main x 2" By-Pass, 700 GPM	2.00	EA	7,535.08	15,070	
15414.126	Water Meter, Bronze, Comm./Dom., Flanged, 4" OD, 320 GPM	3.00	EA	5,366.82	16,100	
15420.106	Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 3/4" OD	11,000.00	LF	10.64	116,999	
15420.108	3 Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 1" OD	8,500.00	LF	14.02	119,129	
15420.114	Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 2" OD	4,000.00	LF	31.93	127,706	
15420.118	Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 3" OD	1,000.00	LF	76.22	76,215	
15420.122	Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 4" OD	250.00	LF	125.23	31,308	
15421.104	Fiberglass 1" Insulation With All Service Jacket 3/4" Pipe	11,000.00	LF	3.96	43,588	
15421.106	Fiberglass 1" Insulation With All Service Jacket 1" Pipe	8,500.00	LF	4.16	35,367	
15421.204	Fiberglass 1-1/2" Insulation With All Service Jacket 2" Pipe	4,000.00	LF	5.87	23,484	
15421.208	B Fiberglass 1-1/2" Insulation With All Service Jacket 3" Pipe	1,000.00	LF	6.58	6,579	
15421.212	Priberglass 1-1/2" Insulation With All Service Jacket 4" Pipe	250.00	LF	7.78	1,946	
15421.500	Valves and Accessories	1.00	LS	25,000.00	25,000	
15421.500	Valves and Accessories	1.00	LS	125,000.00	125,000	
15440.028	B UG Hub & Spigot, CI, No Hangers, 6" Pipe	1,000.00	LF	52.21	52,214	
15440.052	Casty Iron SW&V, Hangers 5' OC, 1-1/2" Pipe	11,000.00	LF	18.61	204,732	
15440.054	Casty Iron SW&V, Hangers 5' OC, 2" Pipe	6,500.00	LF	22.45	145,925	
	Casty Iron SW&V, Hangers 5' OC, 4" Pipe	2,750.00	LF	31.69	87,150	
	2 Corrosion Resistant Pipe, Sch. 40 Polypropylene, No Coupling/Hangers, 2" OD - GW	2,000.00	LF	24.95	49,900	
15440.386	6 Corrosion Resistant Pipe, Sch. 40 Polypropylene, No Coupling/Hangers, 4" OD - GW	1,000.00	LF	45.25	45,248	
15440.500	Limestone Chip Acid Neutralizer - 200 Gallon	1.00	EA	17.500.00	17,500	
	Sch40 PVC W/Couplings and Hangers, 10ft OC, 4" OD	2,000.00	LF	24.48	48,968	
15450.412	<ul><li>Sch40 PVC W/Couplings and Hangers, 10ft</li><li>OC, 6" OD</li></ul>	500.00	LF	37.11	18,557	
15460.100	Black Steel, Schedule 40, Threaded     W/Couplings And Hangers, 10ft OC, 2" OD -     NG	5,500.00	LF	21.06	115,844	
15460.102	Black Steel, Schedule 40, Threaded W/Couplings And Hangers, 10ft OC, 1-1/4" OD - NG	6,000.00	LF	14.47	86,826	
15460 200	Valves and Accessories	1.00	LS	10,000.00	10,000	
	Valves and Accessories	1.00	LS	50,000.00	50,000	
	O Air Compressor, Reciprocating, Air-Cooled, Tank Mounted, Two Stage, 3 Phase, 105 CFM  (2) 125 PSI, 25 HP, 250 Gal. Tank	2.00	EA	14,100.00	28,200	
15470.100	Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 3/4" OD - CA	1,200.00	LF	10.64	12,764	
15470.102	Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 1" OD	600.00	LF	14.02	8,409	
15470.212	2 Compressed Air Outlet, Recessed Wall, Single	80.00	EA	123.75	9,900	



Job #: 15027

Project Size: 303,000 SF Detail - With Taxes and Insurance

Item Code	Description	Quantity	UM	Total UnitCost	Total Cost	
	Kitchen Rough-In	2.00	LS	15,000.00	30,000	
	Commissioning Support	1.00	LS	8,000.00	8,000	
15495.004	Commissioning Support	1.00	LS	50,000.00	50,000	
15495.006	Coordination & Management	1.00	LS	8,500.00	8,500	
15495.006	Coordination & Management	1.00	LS	65,000.00	65,000	
15495.008	Coring & Patching & Firestopping	1.00	LS	2,000.00	2,000	
15495.008	Coring & Patching & Firestopping	1.00	LS	20,000.00	20,000	
	Flushing & Sanitizing	1.00	LS	1,500.00	1,500	
	Flushing & Sanitizing	1.00	LS	15,000.00	15,000	
	Fees & Permits	1.00	LS	3,000.00	3,000	
	Fees & Permits	1.00	LS	25,000.00	25,000	
*** Total D20 -	PLUMBING				2,659,492	
** Total D20 -					2,659,492	
D30 - HV	/AC					
D30 - H						
	Custom, 20" High, Insulated Roof Curb	25.00	EA	1,200.00	30,000	
	Outdoor, MAU, Indirect Gas-Fired (NG),	2.00	EA	18,086.92	36,174	
10020.020	Gravity Vent, SS Exchanger, 70degF Rise,	2.00	Δ/ (	10,000.02	00,174	
	550 MBH Input					
15620 421	RTU 1-4, Stnd Controls, Curb, Econ., Multi-	4.00	EA	2,907.71	11,631	
13020.421	Zone, Gas Heat, 42 Ton Dx Cooling, 530 MBH	4.00	LA	2,507.71	11,031	
	Heating, Heat Wheel, 12000 CFM					
15620 422	RTU 5, Stnd Controls, Curb, Econ., Multi-	1.00	EA	2,907.71	2,908	
13020.422	Zone, Gas Heat, 42 Ton Dx Cooling, 530 MBH	1.00	LA	2,507.71	2,300	
	Heating, Heat Wheel, 12500 CFM					
15620 423	RTU 6, Stnd Controls, Curb, Econ., Multi-	1.00	EA	2,907.71	2,908	
13020.423	Zone, Gas Heat, 20 Ton Dx Cooling, 200 MBH	1.00	LA	2,907.71	2,900	
	Heating, Heat Wheel, 5500 CFM					
15620 424	RTU 7, Stnd Controls, Curb, Econ., Multi-	1.00	EA	2,907.71	2,908	
13020.424	Zone, Gas Heat, 15 Ton Dx Cooling, 200 MBH	1.00	EA	2,907.71	2,900	
	Heating, Heat Wheel, 3500 CFM					
15620 425	RTU 8, Stnd Controls, Curb, Econ., Multi-	1.00	EA	2,907.71	2,908	
13020.423	Zone, Gas Heat, 27 Ton Dx Cooling, 350 MBH	1.00	LA	2,907.71	2,900	
	Heating, Heat Wheel, 7200 CFM					
15620 426	RTU 11, Stnd Controls, Curb, Econ., Multi-	1.00	EA	2,907.71	2,908	
13020.420	Zone, Gas Heat, 7.5 Ton Dx Cooling, 130	1.00	EA	2,907.71	2,900	
	MBH Heating, 2500 CFM					
15620 426	RTU 9, 10, Stnd Controls, Curb, Econ., Multi-	2.00	EA	54,907.71	109,815	
13020.420	Zone, Gas Heat, 22 Ton Dx Cooling, 320 MBH	2.00	LA	34,307.71	109,015	
	Heating, 6500 CFM					
15620 427	RTU 12, Stnd Controls, Curb, Econ., Multi-	1.00	EA	2,907.71	2,908	
10020.421	Zone, Gas Heat, 6.5 Ton Dx Cooling, 120	1.00	LA	2,507.71	2,300	
	MBH Heating, 2000 CFM					
15620 427	RTU 15, Stnd Controls, Curb, Econ., Multi-	1.00	EA	82,907.71	82,908	
13020.421	Zone, Gas Heat, 35 Ton Dx Cooling, 480 MBH	1.00	LA	02,307.71	02,300	
	Heating, 10000 CFM					
15620 428	RTU 13, 14, Stnd Controls, Curb, Econ., Multi-	2.00	EA	2,907.71	5,815	
10020.420	Zone, Gas Heat, 10 Ton Dx Cooling, Heat	2.00	LA	2,507.71	0,010	
	Wheel, 200 MBH Heating, 3200 CFM					
15620 428	RTU 16, Stnd Controls, Curb, Econ., Multi-	1.00	EA	34,907.71	34,908	
10020.420	Zone, Gas Heat, 10 Ton Dx Cooling, 180 MBH	1.00	LA	34,307.71	34,300	
	Heating, 4000 CFM					
15620 //20	RTU 17, Stnd Controls, Curb, Econ., Multi-	1.00	EA	2,907.71	2,908	
13020.423	Zone, Gas Heat, 15 Ton Dx Cooling, 200 MBH	1.00	LA	2,907.71	2,900	
	Heating, Heat Wheel, 3500 CFM					
15620 420	RTU 18, Stnd Controls, Curb, Econ., Multi-	1.00	EA	2,907.71	2,908	
13020.430	Zone, Gas Heat, 32 Ton Dx Cooling, 450 MBH	1.00	LA	2,301.11	2,300	
	Heating, Heat Wheel, 10500 CFM					
	Healing, Fleat Wheel, 10000 CFM					
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**CONSTRUCTION** 

Job #: 15027

Project Size: 303,000 SF Detail - With Taxes and Insurance

Item	Description	Quantity	UM	Total	Total	
Code				UnitCost	Cost	
15600 424	DTII 10 Stad Controls Curb Foon Multi	1.00	ГΛ	2.007.71	2 000	
10020.431	RTU 19, Stnd Controls, Curb, Econ., Multi-	1.00	EA	2,907.71	2,908	
	Zone, Gas Heat, 10 Ton Dx Cooling, 150 MBH					
15620 422	Heating, Heat Wheel, 2500 CFM	1.00	EA	2 007 71	2 000	
13020.432	RTU 20, Stnd Controls, Curb, Econ., Multi-	1.00	EA	2,907.71	2,908	
	Zone, Gas Heat, 300 MBH Heating, Heat Wheel, 6000 CFM					
15620 433	RTU 21, Stnd Controls, Curb, Econ., Multi-	1.00	EA	2,907.71	2,908	
13020.433	Zone, Gas Heat, 300 MBH Heating, Heat	1.00	LA	2,307.71	2,300	
	Wheel, 6000 CFM					
15620 434	RTU 22, Stnd Controls, Curb, Econ., Multi-	1.00	EA	2,907.71	2,908	
10020.404	Zone, Gas Heat, 200 MBH Heating, Heat	1.00		2,007.71	2,500	
	Wheel, 3500 CFM					
15620.435	RTU 23, Stnd Controls, Curb, Econ., Multi-	1.00	EA	2,907.71	2,908	
	Zone, Gas Heat, 400 MBH Heating, Heat			_,	_,,,,,	
	Wheel, 8000 CFM					
15620.436	RTU 24, Stnd Controls, Curb, Econ., Multi-	1.00	EA	2,907.71	2,908	
	Zone, Gas Heat, 300 MBH Heating, Heat			·	·	
	Wheel, 6000 CFM					
15620.437	RTU 25, Stnd Controls, Curb, Econ., Multi-	1.00	EA	2,907.71	2,908	
	Zone, Gas Heat, 300 MBH Heating, Heat					
	Wheel, 6200 CFM					
15620.500	Daikin Rebel / Maverick II RTU's - VFD's,	1.00	LS	878,500.00	878,500	
	Extended Warranties					
15624.003	Split System, Ductless, Cooling Only, Wall	5.00	EA	6,013.00	30,065	
	Mount, Single Zone, 1-1/2 Ton					
	Single Bathroom Exhaust Fan, 100 CFM	9.00	EA	403.45	3,631	
	Bathroom Exhaust Fan, 1000 CFM	4.00	EA	1,680.56	6,722	
	Exhaust Fan, 1500 CFM	2.00	EA	2,180.56	4,361	
	Kitchen Exhaust Fan, Centrifugal, 4000 CFM	2.00	EA	4,215.33	8,431	
15640.112	Hot Water Condensing Boiler, Packaged	3.00	EA	10,214.00	30,642	
	w/Controls/Circulator/Trim, NG, 330 MBH					
	Output				/	
15640.114	Hot Water Condensing Boiler, Packaged	4.00	EA	59,364.00	237,456	
	w/Controls/Circulator/Trim, NG, 2700 MBH					
45050.000	Output	4.00	1.0	0.000.00	0.000	
	Glycol Treatment System	1.00	LS	8,000.00	8,000	
	Chiller, Air Cooled, High Efficiency, 50 Ton	1.00	EA	42,927.00	42,927	
	Fume Hood, Fan, Ductwork	2.00	EA	5,500.00	11,000	
	Vehicle Exhaust System, 2000 CFM	1.00 1.00	LS	15,000.00	15,000	
	Vehicle Exhaust System, 5000 CFM		LS LS	25,000.00	25,000	
	Paint Booth Exhaust System, 12000 CFM Dust Collection System, 4000 CFM	1.00 1.00	LS	25,000.00 65,000.00	25,000 65,000	
	Duct Collection System, 6000 CFM	1.00	LS	87,000.00	87,000 87,000	
	Chilled Water Pump, Centrifugal, Base	2.00	EA	4,096.31	8,193	
13000.202	Mounted, End Suction, 105 gpm w/VFD	2.00	LA	4,090.51	0,193	
15660 206	Hot Water Pump, Centrifugal, Base Mounted,	2.00	EA	3,994.33	7,989	
13000.200	End Suction, 100 gpm w/VFD	2.00	LA	0,994.00	1,309	
15660 206	Hot Water Pump, Centrifugal, Base Mounted,	2.00	EA	18,994.33	37,989	
13000.200	End Suction, 720 gpm w/VFD	2.00	LA	10,994.00	37,309	
15680 040	Displacement Ventilation System (per	71.00	EA	1,250.00	88,750	
10000.010	Classroom)	7 1.00		1,200.00	30,733	
15680 042	Sound Attenuator Device / Double Wall	25.00	EA	2,500.00	62,500	
10000.012	Ductwork (per RTU)	20.00		2,000.00	32,300	
15680.112	Galvanized Ductwork, > 5000 LB	250,000.00	LB	7.50	1,874,975	
	Duct Insulation, Blanket Type, Fiberglass,	215,000.00	SF	2.53	544,595	
	FSK, 1.0Lb Density, 1-1/2" Thick	-,	<del>-</del> -	]	,	
15688.014	Gas Vent, Double Wall, Galvanized Steel, UL	700.00	LF	48.66	34,064	
	Listed, 12" Dia.				, ,	
15690.102	Fin Tube Radiation, Wall Hung, 14" Slope Top,	3,650.00	LF	64.10	233,965	
	1-1/4" Cu Tube, 4-1/4" Aluminum Fin	•			,	



**CONSTRUCTION** 

Job #: 15027
Project Size: 303,000 SF
Detail - With Taxes and Insurance

15691.004 15691.312 15692.210	Description  Cabinet Unit Heater, Horizontal, Floor Mount,	Quantity	UM	Total UnitCost	Total Cost	I
15691.004 15691.312 15692.210	Cabinet Unit Heater Horizontal Floor Mount					1
15691.312 15692.210	Cabinet Unit Heater Horizontal Floor Mount				0031	
15692.210	60 MBH	26.00	EA	1,617.26	42,049	
	Unit Heater, Hot Water, Horizontal, 47 MBH	15.00	EA	717.26	10,759	
	Variable Air Volume Box, PI, w/Damper, Actuator, T-Stat, 1000 CFM	100.00	EA	890.00	89,000	
10099.000	Chilled Beam	830.00	LF	100.00	83,000	
15700.106	Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 3/4" OD	20,400.00	LF	10.64	216,981	
15700.112	Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 1-1/2" OD	10,200.00	LF	22.40	228,444	
15700.118	Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 3" OD	2,000.00	LF	62.36	124,713	
15700.316	Black Steel, Schedule 40, Welded W/Couplings And Hangers, 10ft OC, 4" OD	400.00	LF	45.02	18,010	
15704.104	Fiberglass 1" Insulation With All Service Jacket 3/4" Pipe	20,400.00	LF	3.96	80,835	
15704.202	Fiberglass 1-1/2" Insulation With All Service Jacket 1-1/2" Pipe	10,200.00	LF	5.49	55,998	
	Fiberglass 2" Insulation With All Service Jacket 3" Pipe	2,000.00	LF	8.10	16,190	
	Fiberglass 2" Insulation With All Service Jacket 4" Pipe	400.00	LF	9.71	3,883	
	Air Separator w/Strainer, 2-1/2" Dia.	1.00	EA	1,439.16	1,439	
	Air Separator w/Strainer, 4" Dia.	1.00	EA	3,098.60	3,099	
15706.206	Expansion Tank, Steel, ASME, Rubber Diaphragm, 61 Gal. Accep. Vol.	1.00	EA	3,786.82	3,787	
15706.214	Expansion Tank, Steel, ASME, Rubber Diaphragm, 211 Gal. Accep. Vol.	1.00	EA	6,573.73	6,574	
15708.106	ARC Tubing, Type L Copper, Hard Tempered, No Couplings/Hangers, 5/8"	1,000.00	LF	7.11	7,110	
15708.112	ARC Tubing, Type L Copper, Hard Tempered, No Couplings/Hangers, 1-1/8"	1,000.00	LF	10.84	10,840	
	Valves & Accessories	1.00	LS	1,500.00	1,500	
15708.500	Valves & Accessories	1.00	LS	200,000.00	200,000	
15780.000	DDC Controls	302,324.00	SF	5.50	1,662,782	
	CO2 Sensor	119.00	ĒA	85.00	10,115	
	Air & Water Balance	302,324.00	SF	0.50	151,162	
	Coordination & Management	1.00	LS	10.000.00	10,000	
	Coordination & Management	1.00	LS	175,000.00	175,000	
	Commissioning Support	1.00	LS	2,500.00	2,500	
	Commissioning Support	1.00	LS	50,000.00	50,000	
	Coring, Patching & Firestopping	1.00	LS	2,000.00	2,000	1
	Coring, Patching & Firestopping	1.00	LS	25,000.00	25,000 25,000	1
	Seismic Restraint	1.00	LS	5,000.00	5,000	1
	Seismic Restraint	1.00	LS	25,000.00	25,000 25,000	
	Fees & Permits	1.00	LS	5,000.00	5,000	
	Fees & Permits	1.00	LS			
** Total D30 -		1.00	LS	50,000.00	50,000	
* Total D30 - F					8,104,390 8,104,390	
	RE PROTECTION					
	RE PROTECTION	75.00		00.00	0.470	
15502.024	Fire Service Main - 6" Ductile Iron, Mech. Joint 6" Double Check Backflow Preventer W/OS&Y Valves. 4 Test Cocks	75.00 2.00	LF EA	29.06 5,847.73	2,179 11,695	
	FDC - Two Way Siamese - 3x3x6	2.00	EA	1,541.40	3.083	
15502.116	4" Zone Flow Control Valve W/Trim And Gauges	10.00	EA	6,009.14	60,091	
	Tamper Switch	10.00	EA	153.65	1,537	



**CONSTRUCTION** 

Job #: 15027 Project Size: 303,000 SF Detail - With Taxes and Insurance

Item	Description	Quantity	UM	Total	Total	
Code	·			UnitCost	Cost	
15502.202	Sprinkler Main Sch 40 BS - 4", Grooved Joint,	8,800.00	LF	39.75	349,796	
45500,000	W/Hangers 10 Ft O.C.	47 700 00		40.52	004 777	
15502.222	Sprinkler Branch Sch 40 BS - 1" Threaded W/	17,700.00	LF	12.53	221,777	
15502 226	Hangers 10 Ft O.C. Sprinkler Branch Sch 40 BS - 1-1/2" Threaded	8,750.00	LF	16.39	143,413	
15502.220	W/ Hangers 10 Ft O.C.	0,750.00	LF	10.59	143,413	
15502 400	Sprinkler Heads - Standard Pendant, 1/2"	2,650.00	EA	36.43	96,526	
10002.400	NPT, 1/2" Orifice	2,000.00	LA	00.40	30,020	
15505.006	2" Dry Pipe Valve With Trim And Gauges	1.00	EA	2,507.80	2,508	
	30 Gal., 1 HP Comp Air Sys For Fire	1.00	EA	1,093.23	1,093	
	Protection			·	·	
15505.202	Sprinkler Main Sch 40 BS - 4", Grooved Joint,	115.00	LF	39.75	4,571	
	W/Hangers 10 Ft O.C RR					
15505.222	Sprinkler Branch Sch 40 BS - 1" Threaded W/	190.00	LF	12.53	2,381	
	Hangers 10 Ft O.C RR					
15505.400	Sprinkler Heads - Standard Upright, 1/2" NPT,	20.00	EA	36.43	729	
45505.004	1/2" Orifice - RR	040.00		20.75	0.540	
15525.004	Sprinkler Main Sch 40 BS - 4", Grooved Joint,	240.00	LF	39.75	9,540	
15525 102	W/Hangers 10 Ft O.C. Fd Standpipe Angle Valve, 2-1/2", Brass,	6.00	EA	287.34	1,724	
15525.102	W/Wheel, Handle Chain And Cap	0.00	EA	207.34	1,724	
15535 002	Coordination & Management	1.00	LS	20,000.00	20,000	
	Hydraulic Calculations	1.00	LS	12.000.00	12,000	
	Coring & Patching & Firestopping	1.00	LS	17,500.00	17,500	
	Fees & Permits	1.00	LS	12,000.00	12,000	
	FIRE PROTECTION			,,,,,,	974,143	
** Total D40 - I	FIRE PROTECTION				974,143	
D50 - FI	ECTRICAL					
	LECTRICAL					
	300 kW NG Emergency Generator w/Sound	1.00	EA	154,146.07	154,146	
10020.210	Attenuated Enclosure	1.00	EA	154,140.07	134, 140	
16020 212	Emergency Power Equipment and Distribution	234,400.00	SF	1.50	351,600	
	Emergency Generator - Testing	1.00	LS	5,000.00	5,000	
	4000 Amp Switchgear, 480/277V	1.00	EA	90,000.00	90,000	
	Transformer / Primary / Conduit **	1.00	LS	50,000.00	50,000	
	ALLOWANCE **			·	·	
16040.006	Panel Feeders	52.00	EA	2,500.00	130,000	
	Primary Conduit Only - (1) 4"	800.00	LF	4.40	3,520	
	Secondary Feeder - (8) 4" Conduits	800.00	LF	4.40	3,520	
	Secondary Feeder - #600 MCM Conductor	3,200.00	LF	34.35	109,920	
	Grounding/Bonding	1.00	LS	10,000.00	10,000	
	20 KW UPS	2.00	EA	20,000.00	40,000	
	Panel 277/480V 100A - Lighting	13.00	EA	1,664.44	21,638	
	Panel 277/480V 100A - Mechanical	13.00	EA	1,664.44	21,638	
	Panel 277/480V 400A - Distribution Triple Tub Panel 120/208V 250 Amp	13.00 13.00	EA EA	3,328.57 9,795.00	43,271 127,335	
	Transformer Dry Type, Three Phase, 30kVA	13.00	EA	4,928.89	64,076	
	Transformer Dry Type, Three Phase, 75kVA	13.00	EA	7,194.29	93,526	
	Branch Devices	302,324.00	SF	1.00	302,324	
	Power and Branch Circuitry	67,924.00	SF	2.50	169,810	
	Power and Branch Circuitry	234,400.00	SF	3.50	820,400	
	RTU Feeder	25.00	EA	2,706.00	67,650	
	Boiler Feeder	4.00	EA	1,401.75	5,607	
16060.418	Pump Feeder	7.00	EA	1,965.75	13,760	
16060.420	Chiller Feeder	1.00	EA	8,336.00	8,336	
	2x4 Flourescent - MER	30.00	EA	340.25	10,208	
	Recessed LED's - Classrooms/Offices	1,340.00	EA	290.25	388,935	
	Direct LED's - Gymnasium	56.00	EA	1,080.50	60,508	
16080.014	Linear Indirect LED's - Corridor	445.00	EA	440.25	195,911	



**CONSTRUCTION** 

Job #: 15027 Project Size: 303,000 SF Detail - With Taxes and Insurance

Item	Description	Quantity	UM	Total	Total	
Code	Description	Quantity	UW	UnitCost	Cost	
					40.000	
16080.016	Pendant Mount / Indirect Flourescent -	58.00	EA	728.25	42,239	
16000 010	Cafeteria 2x2 LED Panels - Kitchen/Servery	50.00	EA	603.25	30,162	
	Direct Recessed LED's - Library	36.00	EA	290.25	10,449	
	Dimmable Flourescent - Auditorium	60.00	EA	2,090.25	125,415	
	Exterior Wall Mount - LED	42.00	EA	628.25	26,387	
16080.026	Exterior Pole Fixture - Custom LED	35.00	EA	4,000.00	140,000	
16080.030	Exterior Pendant - LED - RR	15.00	EA	628.25	9,424	
	Lighting Circuitry	67,924.00	SF	1.25	84,905	
	Lighting Circuitry	234,400.00	SF	2.00	468,800	
	Lighting Controls	302,324.00	SF	1.25	377,905	
	Lighting Controls & Panels - Testing	1.00	LS	5,000.00	5,000	
	Lighting Controls & Panels - Testing Stage Lights / Sound System / Dimmer Rack **	1.00 1.00	LS LS	15,000.00	15,000	
10081.150	ALLOWANCE **	1.00	LS	375,000.00	375,000	
16100.000	Sound System - Cafeteria	1.00	LS	20,000.00	20,000	
16100.001	Sound System - Gymnasium	1.00	LS	20,000.00	20,000	
	Sound System - Music Room	1.00	LS	10,000.00	10,000	
	Bi-Directional Antennae	1.00	LS	50,000.00	50,000	
	Tel/ Data/ CATV	302,324.00	SF	1.75	529,067	
	Card Reader System - Head End Equipment Card Readers - Swipes/Wires	1.00 25.00	EA EA	9,000.00	9,000 42,500	
	Master Clock	302,324.00	SF	1,700.00 0.35	42,500 105,813	
16180.001		302,324.00	SF SF	0.60	181,394	
	Communications - Testing	1.00	LS	5,000.00	5,000	
	Communications - Testing	1.00	LS	15,000.00	15,000	
	Security System - Head End Equipment	1.00	LS	35,000.00	35,000	
	Fixed Interior CCTV Cameras	25.00	EA	3,000.00	75,000	
	Pan-Tilt-Zoom Exterior CCTV Cameras	10.00	EA	5,000.00	50,000	
	Fire Alarm	302,324.00	SF	1.50	453,486	
	Fire Alarm Testing	1.00	LS	2,000.00	2,000	
	Fire Alarm Testing	1.00	LS	5,000.00	5,000	
	Lightning Protection	1.00 1.00	LS LS	5,000.00	5,000	
	Lightning Protection Commissioning	1.00	LS	25,000.00 10,000.00	25,000 10,000	
	Commissioning	1.00	LS	50,000.00	50,000	
	Firestopping	1.00	LS	5,000.00	5,000	
	Firestopping	1.00	LS	15,000.00	15,000	
	Identification	1.00	LS	2,000.00	2,000	
16400.104	Identification	1.00	LS	5,000.00	5,000	
16400.106	Seismic Restraint	1.00	LS	3,500.00	3,500	
	Seismic Restraint	1.00	LS	10,000.00	10,000	
	Fees & Permits	1.00	LS	15,000.00	15,000	
	Fees & Permits	1.00	LS	40,000.00	40,000	
*** Total D50 - ** Total D50 - I					6,867,084 6,867,084	
	UIPMENT				1,	
	QUIPMENT, GENERALLY					
11160.034	12" Dock Seal - OH Doors	2.00	EA	1,585.04	3,170	
	Rubber Dock Bumper 4 1/2"x14"x12" OUTDOOR SCOREBOARDS - NOT	4.00	EA	166.38	666	
44400 000	INCLUDED  Cym Pleachara (One Side Only)	1.00	10	05,000,00	05.000	
	Gym Bleachers (One Side Only) Gym Divider Curtain	1.00 1.00	LS LS	25,000.00 25,000.00	25,000 25,000	
	Basketball Hoop	6.00	EA	5,333.33	25,000 32,000	
	Volley Ball Net w/ Floor Inserts	1.00	EA	1,900.00	1,900	
	Score Board - Existing to remain	1.00	EA	8,500.00	1,000	
	Upgrade Motorized Retraction System for Existing Bleachers		LS	20,000.00		
				I		



**CONSTRUCTION** 

Job #: 15027 Project Size: 303,000 SF Detail - With Taxes and Insurance

Item	Description	Quantity	UM	Total	Total	
Code				UnitCost	Cost	
11480.062	Plastic Telescoping Stands - Hussey Maxam 26 Motorized Bleachers		EA	110.00		
11480.065	Gym Wall Padding - 6' Ht	470.00	LF	100.00	47,000	
11480.080	Temporarily Relocate Existing Bleachers for Floor Replacement	1.00	LS	2,000.00	2,000	
11650.000	Stage Set Fastening Equipment - In Line set Allowance					
	Lecture Hall Tables - 18" X 5'		EA	1,085.15		
	Auditorium Seating - Quattro By Hussey Seating	800.00	EA	250.00	200,000	
11654.000 *** Total E10 - ** Total E10 -	Line Sets & Shell Allowance - Auditorium  EQUIPMENT, GENERALLY  EQUIPMENT	1.00	LS	175,000.00	175,000 <b>511,736</b> <b>511,736</b>	
F20 - FU	IRNISHINGS					
	- FIXED FURNISHINGS					
	Smart Boards - N/A per HMFH		EA	2,677.73		
	Marker Board W/ Alum Trim - Classrooms & Labs	2,952.00	SF	15.63	46,147	
	Tack Board W/O Trim	2,952.00	SF	8.32	24,550	
	Hunter Douglas Roller Shades (50% of glazing)	15,960.00	SF	11.00	175,560	
	0 - FIXED FURNISHINGS FURNISHINGS				246,257 246,257	
F10 - SP	ECIAL CONSTRUCTION					
	PECIAL CONSTRUCTION					
	50' Riding Ring w/ Fence (Roof in B10)	1.00	LS	10,000.00	10,000	
2220.330	Crushed Stone Under Slab - Kennel	20.00	CY	37.51	750	
	4" SOG - Kennel	400.00	SF	7.71	3,084	
	Chain Link Fence - Vinyl Coated 6' H - Kennel (10' x 10')	120.00	LF	22.00	2,640	
	Tennis Court	4.00	EA	40,000.00	160,000	
*** Total F10 -	Baseball Field (Includes new drainage system) SPECIAL CONSTRUCTION SPECIAL CONSTRUCTION	1.00	EA	150,000.00	150,000 <b>326,474</b> <b>326,474</b>	
					323,	
	LECTIVE BUILDING DEMOLITION					
	- BUILDING ELEMENTS DEMOLIT  Mass Demolition - High School	61,802.00	C.E.	5.00	200.010	
	Mass Demolition - High School	116,198.00	SF SF	6.00	309,010 697,188	
	Gym Floor Demo	13,027.00	SF	1.21	15,765	
	Interior Demolition - Strip Walls & Clg GWB, Flooring, Casework, MEP	52,027.00	SF	8.00	416,216	
2032.110	Remove Face Brick at West Wall of 1966 Wing	18,200.00	SF	1.30	23,715	
	Demo Entrance Canopy	4,600.00	SF	0.68	3,129	
	0 - BUILDING ELEMENTS DEMO SELECTIVE BUILDING DEMOLIT				1,465,023 1,465,023	
G10 - SI	TE PREPARATION					
	- SITE DEMOLITION					
	Remove underdrain system at existing baseball field	1.00	LS	10,000.00	10,000	
2013.240	Demo Bit Conc Pvmt - Large Area	230,562.00	SF	0.16	37,927	
	Demo Bit Conc Pvmt - Large Area (For Animal Barn)	6,000.00	SF	0.16	987	
	Demo Conc Walk 0 - SITE DEMOLITION	11,800.00	SF	0.63	7,414 <b>56,328</b>	
G1030	- EARTHWORK					
	Misc Erosion Control	1.00	LS	50,000.00	50,000	
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**CONSTRUCTION** 

Job #: 15027 Project Size: 303,000 SF Detail - With Taxes and Insurance

Item Description Code	Quantity	UM	Total UnitCost	Total Cost
2110.306 Site Access/Laydown	1.00	LS	35,000.00	35,000
2200.130 Site Excavation	15,000.00	CY	12.13	181,913
2200.160 Site Fill From Borrow (Demolished Wing)	25,000.00	CY	3.17	79,228
2200.905 Granular Fill (M) (Demolished Wing)	25,000.00	CY	10.00	250,000
2300.155 Dewatering	1.00	LS	40,000.00	40,000
*** Total G1030 - EARTHWORK	1.00		10,000.00	636,140
** Total G10 - SITE PREPARATION				692,468
G20 - SITE IMPROVEMENTS				·
G2010 - SITE PAVING				
2600.050 Compact Road Subgrade	28,875.89	SY	0.23	6,688
	,			· · · · · · · · · · · · · · · · · · ·
2600.060 Fine Grade Road Subgrade	28,875.89	SY	1.04	30,089
2600.075 Stabilization Fabric-Medium	33,207.27	SY	1.31	43,402
2600.130 Install Road Base (L)	20,213.12	CY	3.96	80,070
2600.136 Base - Crushed Gravel (M)	20,213.12	CY	16.00	323,410
2600.200 Added 2" for Heavy Duty Paving - Lot C	432.00	TONS	110.00	47,520
(35,052 SF)	402.00	10110	110.00	41,020
2600.200 Bituminous Concrete P3.96g (4")	6,357.78	TON	95.00	603,989
2600.201 28875.89	1.00	EACH		· I
2600.210 **Paved Area**	28,875.89	SY		I
	,		0.00	40.070
2610.002 Grading For Curbs	6,000.00	LF	2.68	16,079
2610.060 Concrete Curbs 6" X 18"	6,000.00	LF	12.00	72,000
2610.175 4" Concrete Sidewalk	11,000.00	SF	3.00	33,000
3200.055 CIP Stairs at Retaining Wall	140.00	SF	55.00	7,700
*** Total G2010 - SITE PAVING				1,263,947
G2050 - LANDSCAPING				
2710.200 Landscaping	1.00	LS	140,000.00	140,000
			•	
2710.250 Landscaping - Courtyard	1.00	LS	150,000.00	150,000
5520.060 Steel Handrail - Site Retaining Wall	328.00	LF	62.21	20,405
10000.010 Flag Pole	1.00	EA	2,277.73	2,278
*** Total G2050 - LANDSCAPING				312,683
** Total G20 - SITE IMPROVEMENTS				1,576,630
G30 - SITE UTILITIES				
G3010 - SITE UTILITIES				
2500.790 Storm Drainage Line	4.200.00	LF	44.08	185,136
	,			· · · · · · · · · · · · · · · · · · ·
2510.507 4' Dia PC Catch Basin	40.00	EA	3,469.33	138,773
2540.110 Water Line	300.00	LF	54.08	16,224
2540.114 Sanitary Sewer	300.00	LF	52.08	15,624
2540.118 Prim/Sec Electrical/Telcom Trenching	300.00	LF	32.08	9,624
2540.122 Natural Gas Trenching	300.00	LF	32.08	9,624
2540.128 Alter Underdrain at existing ball field for new addition	1.00	LS	10,000.00	10,000
2540.130 Alter Underdrain at existing lacrosse field at	1.00	LS	10,000.00	10,000
kitchen laoding dock due to const access	1.00	- I	10,000.00	10,000
	E 400 00	, <u> </u>	204	40.440
2580.110 Elec Trench-Direct Burial (Site Lighting)	5,400.00	LF	8.04	43,416
2580.120 Elec Trench-Duct Bank (Secondary/Primary Under Roads)	140.00	LF	12.32	1,725
	ECO 00	or	4.42	0.470
2580.130 Elec Ductbank Forms	560.00	SF		2,473
2580.140 Elec Ductbank Concrete	48.53	CY	121.08	5,876
2580.300 Grease Interceptor, Steel, 50 GPM, 100 LB Fat	1.00	EA	9,962.60	9,963
Capacity 2580.302 Grease Interceptor, Steel, 250 GPM, 500 LB	1.00	EA	26,096.32	26,096
Fat Capacity	1.50	_,	20,000.02	
*** Total G3010 - SITE UTILITIES				484,555
** Total G30 - SITE UTILITIES				484,555
Z10 - GENERAL				
Z1010 - GENERAL CONDITIONS				



**CONSTRUCTION** 

Job #: 15027 Project Size: 303,000 SF

Detail - With Taxes and Insurance

Item	Description	Quantity	UM	Total	Total	
Code				UnitCost	Cost	
0080.100	***DESIGN & ENGINEERING FEES BY CITY OF DOVER***					
0100.000	Mobilize / Demobilize	1.00	LS	28,000.00	28,000	
	Office Supplies	165.00	WK	275.00	45,375	
0100.030	Office Furniture / Systems	1.00	LS	48,000.00	48,000	
	Engineer's Furniture / Equipment - N/A		LS			
	Engineer's Computer / Software - N/A	4.00	LS	5 000 00	20,000	
	Project Kiosk 30" - Purchase Janitorial Services	4.00 168.00	EA WK	5,000.00 150.00	20,000 25,200	
	Temporary Wiring	1.00	LS	3,000.00	3,000	
	Electrical Energy Costs	38.00	MO	350.00	13,300	
	Water Usage Costs	38.00	MO	200.00	7,600	
	Telephone / Communication	38.00	MO	1,000.00	38,000	
	Sanitary / Facilities	38.00	MO	1,500.00	57,000	
	Security / Watchman		WK			
	Photographs		MO			
	Documents & Reproductions	1.00	LS	15,000.00	15,000	
0120.002	Estimating - GMP	1.00	LS	50,000.00	50,000	
	Officer in Charge	40.00	MW	7,000.00	00.400	
	Construction Executive	16.00	MW	5,400.00	86,400	
	Senior Project Manager Project Manager	59.00 135.00	MW MW	4,720.00 3,800.00	278,480 513,000	
	Senior Project Engineer	135.00	MW	2,880.00	513,000	
	Project Engineer (Full Time)	168.00	MW	2,400.00	403,200	
	Office Engineer	115.00	MW	1,920.00	220,800	
	Senior Superintendent	150.00	MW	4,720.00	708,000	
	Project Superintendent	162.00	MW	3,720.00	602,640	
	Construction Coordination - SCP (2	37.00	MW	2,400.00	88,800	
	Days/Week)			, i	ŕ	
0120.050	Scheduling Engineer		MW	2,280.00		
	Safety Manager		MW	3,720.00		
	Safety Engineer (2 Days/Week)	67.00	MW	2,280.00	152,760	
	Administration	139.00	MW	1,720.00	239,080	
	Living Allowance - Management	336.00	MWK	300.00	100,800	
	Living Allowance - Foremen	00.00	MWK	125.00	00.000	
	Travel and Expenses	38.00	MO	600.00	22,800	
	Scheduling Permit's & Fee's	1.00	WK LS	2,280.00	2,280	
	Building Permit		LS			
	Design (Means & Methods)		LS			
	Professional Services		LS			
	Equipment Trucking		WK			
	Off - Site Parking		WK			
	Personnel Elevator		MO			
	Field Office	38.00	TM	1,200.00	45,600	
	Engineer / Architect Office		TM	400.00		
	Storage Trailers (2 Trailers)	76.00	TM	150.00	11,400	
	Sub Bonds (Include w/ Subs)		LS			
	Gross Receipts Tax		LS			
	Sales Tax		LS		0 000 545	
^^^ I otal Z1010	0 - GENERAL CONDITIONS				3,826,515	
Z1020 -	- GENERAL REQUIREMENTS					
	Materials Testing		LS			
	Snow Removal	1.00	LS	40,000.00	40,000	
	Field Engineering	4.00	WK	5,000.00	20,000	
	Temporary GWB Partitions	10,000.00	SF	7.80	78,000	
	ICRA / ILSM - N/A		LS			
	Scaffolding - In COW	160.00	LS	774.00	400.670	
0200.200	OSHA / First Aid	168.00	WK	771.89	129,678	



CONSTRUCTION

Job #: 15027

Project Size: 303,000 SF Detail - With Taxes and Insurance

Item Description	Quantity	UM	Total	Total
Code			UnitCost	Cost
0200.300 Material Handling	168.00	WK	940.00	157,920
0200.310 Cranes - In COW		CM		
0200.320 Progress Cleanup (Labor & Dumpster)	168.00	WK	707.04	118,783
0200.360 Final Cleanup	302,324.00	SF	0.45	136,046
0200.400 Temporary Heat	1.00	LS	175,000.00	175,000
0200.410 Temporary Enclosure	1.00	LS	150,000.00	150,000
0200.970 Support Equipment		LS		
*** Total Z1020 - GENERAL REQUIREMENTS				1,005,426
** Total Z10 - GENERAL				4,831,941
Z20 - MAJOR CUSTOM PROGRAM ELEM Z2010 - MAJOR CUSTOM PROGRAM EL 0060.002 Precon Services - N/A (Included under		LS	00 000 00	
1 100011 CCI VICCO 14/7 (III Oldaca dilaci			9h 000 00 I	
separate contract)			96,000.00	
separate contract) 2032.500 Asbestos Abatement Contract	1.00	LS	1,300,000.00	1,300,000
' '	1.00 1.00		ŕ	1,300,000 359,166
2032.500 Asbestos Abatement Contract		LS	1,300,000.00	
2032.500 Asbestos Abatement Contract 2032.505 Asbestos Abatement - 5% Increase per year	1.00	LS LS	1,300,000.00 359,166.00	359,166
2032.500 Asbestos Abatement Contract 2032.505 Asbestos Abatement - 5% Increase per year 2762.100 Replace existing football field with turf	1.00 1.00	LS LS LS	1,300,000.00 359,166.00 750,000.00	359,166 750,000
2032.500 Asbestos Abatement Contract 2032.505 Asbestos Abatement - 5% Increase per year 2762.100 Replace existing football field with turf 11400.001 Kitchen Equipment	1.00 1.00	LS LS LS	1,300,000.00 359,166.00 750,000.00	359,166 750,000 375,000
2032.500 Asbestos Abatement Contract 2032.505 Asbestos Abatement - 5% Increase per year 2762.100 Replace existing football field with turf 11400.001 Kitchen Equipment *** Total Z2010 - MAJOR CUSTOM PROGRAM	1.00 1.00	LS LS LS	1,300,000.00 359,166.00 750,000.00	359,166 750,000 375,000 <b>2,784,166</b>

<b>A</b>	Dover High School - Option #2 - Partial F	Renovation - Estima	te Comparison	
CONSTRUCTION		PC	PM&C	Cost Variance
	High School Total	\$67,450,331	\$70,408,834	\$2,958,503
A1010	Standard Foundations	\$1,481,516	\$2,218,107	\$736,591
A1020	Special Foundations	\$1,070,200	\$231,000	-\$839,200
A1030	Lowest Floor Construction	\$1,787,811	\$1,692,284	-\$95,527
B1010	Floor Construction	\$5,496,138	\$2,569,336	-\$2,926,802
B1020	Roof Construction	\$791,890	\$3,623,284	\$2,831,394
B2010	Exterior Walls	\$3,627,680	\$3,636,348	\$8,668
B2020	Windows	\$2,400,000	\$2,372,767	-\$27,233
B2030	Exterior Doors	\$139,342	\$136,963	-\$2,379
B3010/302	0 Roof Coverings & Openings	\$1,793,174	\$1,812,366	\$19,192
C1010	Partitions	\$2,762,070	\$2,605,880	-\$156,190
C1020	Interior Doors	\$834,390	\$801,750	-\$32,640
C1030	Specialties / Millwork	\$2,207,007	\$1,945,100	-\$261,907
C2010	Stair Construction	\$331,790	\$200,500	-\$131,290
C3010	Wall Finishes	\$929,984	\$944,263	\$14,279
C3020	Floor Finishes	\$2,053,264	\$2,037,898	-\$15,366
C3030	Ceiling Finishes	\$1,176,725	\$1,205,112	\$28,387
D1010	Elevator	\$199,423	\$157,600	-\$41,823
D2010	Plumbing	\$2,659,492	\$2,665,902	\$6,410
D3010	HVAC	\$8,104,390	\$8,135,150	\$30,760
D4010	Fire Protection	\$974,143	\$1,030,750	\$56,607
D5010	Electrical	\$6,867,084	\$8,086,699	\$1,219,615
E1010	Equipment, Generally	\$511,736	\$950,800	\$439,064
E2010	Fixed Furnishings	\$246,257	\$426,210	\$179,953
F10	Special Construction	\$326,474	\$425,000	\$98,526
F2010	Building Elements Demolition	\$1,465,023	\$457,020	-\$1,008,003
G1020/103	Site Demolition & Earthwork	\$692,468	\$5,684,349	\$4,991,881
G2010	Site Paving	\$1,263,947		-\$1,263,947
G2050	Landscaping	\$312,683		-\$312,683
G3010	Site Utilities	\$484,555		-\$484,555
Z1010	General Conditions	\$3,826,515	\$3,826,515	\$0
Z1020	General Requirements	\$1,005,426	\$1,005,426	\$0
Z2010	Major Custom Program Elements	\$2,784,166	\$1,300,000	-\$1,484,166
	Option #2 Total Direct Cost	\$60,606,763	\$62,184,379	\$1,577,616
	1	,	, . , , •	,,

Dover High School - Option #2 - Partial Renovation - Estimate Comparison							
Labor and Material Escalation	\$0	\$0	\$0				
Builders Risk Insurance	\$46,064		-\$46,064				
Liability Insurace	\$505,875	\$509,347	\$3,472				
Construction Manager's Contingency (PC @ 7%)	\$4,242,473	\$5,855,684	\$1,613,211				
P & P Bond	\$404,026	\$325,246	-\$78,780				
CM Fee (2.5%)	\$1,645,130	\$1,534,178	-\$110,952				
Option #2 Total Indirect Cost	\$6,843,568	\$8,224,455	\$1,380,887				
Option #2 Total Gross Cost	\$67,450,331	\$70,408,834	\$2,958,503				



### **OPTION 3 - All New Construction**

### **ESTIMATE SUMMARY**

Project #: 15027 Building GSF: 304,514

			Totals
<b>Direct Cost</b>		%	\$ 65,565,715
	Material Sales Tax (N/A)	0.00%	\$ _
	Labor & Material Escalation	0.00%	\$ -
Gross Cost			\$ 65,565,715
	Building Permit - by Owner	0.00%	\$ -
	Builder's Risk insurance	0.07%	\$ 48,893
	Liability Insurance	0.75%	\$ 536,948
	Construction Manager's Contingency	5.00%	\$ 3,278,286
	P & P Bond (\$5.83 per \$1,000)		\$ 417,387
	Sub Total		\$ 69,847,228
	CM Fee	2.50%	\$ 1,746,181
Total			\$ 71,593,000
Total Cost p	er square foot		\$ 235



Job #: 15027

Project Size: 304,514 SF

Recap - With Taxes and Insurance

Item Description	Quantity	UM	Total	Total
Code			UnitCost	Cost
Option 3 - All New Construction				
A10 - FOUNDATIONS				4,701,798
B10 - SUPERSTRUCTURE				8,364,713
B20 - EXTERIOR CLOSURE				7,774,394
B30 - ROOFING				1,886,518
C10 - INTERIOR CONSTRUCTION				5,378,566
C20 - STAIRCASES				362,660
C30 - INTERIOR FINISHES				4,469,534
D10 - CONVEYING SYSTEMS				253,253
D20 - PLUMBING				2,728,183
D30 - HVAC				8,281,029
D40 - FIRE PROTECTION				971,111
D50 - ELECTRICAL				7,230,576
E10 - EQUIPMENT				468,918
E20 - FURNISHINGS				308,132
F10 - SPECIAL CONSTRUCTION				606,474
F20 - SELECTIVE BUILDING DEMOLITION				1,623,129
G10 - SITE PREPARATION				687,260
G20 - SITE IMPROVEMENTS				1,576,859
G30 - SITE UTILITIES				474,931
Z10 - GENERAL				4,500,611
Z20 - MAJOR CUSTOM PROGRAM ELEMEN				2,917,066
* Total Option 3 - All New Construction				65,565,715
Total Gross Cost				65,565,715
			·	·



Job #: 15027

Project Size: 304,514 SF Detail - With Taxes and Insurance

Item Des Code	scription	Quantity	UM	Total UnitCost	Total Cost	
Ontion 3 - All	New Construction					
•						
A10 - FOUN						
	TANDARD FOUNDATIONS					
	icture Excavation	6,500.00	CY	12.13	78,829	
	ucture Excavation (Barn Addition)	300.00	CY	12.13	3,638	
Reta	Foundation Wall w/ Crushed Stone (Site aining Wall)	2,100.00	CY	37.51	78,771	
	Frost Wall w/ Crushed Stone	4,300.00	CY	37.51	161,293	
	Frost Wall w/ Crushed Stone (Barn lition)	180.00	CY	37.51	6,752	
2220.340 BF F	Frost Wall w/ On Site Matl	3,600.00	CY	17.51	63,036	
2220.340 BF F	Frost Wall w/ On Site Matl (Barn Addition)	180.00	CY	17.51	3,152	
2500.110 4" P	PVC Footing Drains	6,800.00	LF	14.00	95,200	
3300.010 8" x	16" Continuous Footing (Barn Addition)	294.00	LF	32.30	9,496	
3300.014 1' x	3' Continuous Footing	3,113.00	LF	44.20	137,595	
	3' Continuous Footing (Auditorium)	450.00	LF	44.20	19.890	
	5' Continuous Footing (Auditorium)	450.00	LF	55.25	24,862	
	5' Continuous Footing (Site Retaining	405.00	LF	55.25	22,376	
	3' x 1' Isolated Footing	52.00	EA	242.25	12,597	
	5' Frost Wall (Barn Addition)	294.00	LF	105.40	30,988	
3300.045 12"		1,441.00	LF	128.35	184,952	
	x 8' Foundation Wall	1,624.00	LF	191.25	310,590	
	x 13' Site Retaining Wall	405.00	LF	350.20	141,831	
	x 4' Concrete Pier with 2' x 2' x 1' Footing	14.00	EA	273.63	3,831	
	Dia Riding RIng)	14.00	LA	213.03	3,031	
3300.156 1' x		66.00	EA	178.50	11,781	
	nproof Frost Wall	20,197.00	SF	1.50	30,295	
	nproof Frost Wall (Barn Addition)	1,323.00	SF	1.50	1,985	
	id Insulation - 2" Frost Wall	20,197.00	SF	2.08		
	id Insulation - 2" Frost Wall (Barn Addition)	1,323.00	SF	2.08	42,087 2,757	
	TANDARD FOUNDATIONS	1,323.00	SF	2.00	1,478,583	
A1020 - SP	PECIAL FOUNDATIONS					
	regate Piers - 8' Grid: 836 @ 20' Deep	16,720.00	LF	17.01	284,407	
	regate Piers - 8' Grid: 836 @ 20' Deep	16,720.00	LF	80.00	1,337,600	
	PECIAL FOUNDATIONS	10,120.00	Ľ.	00.00	1,622,007	
A1030 - LC	DWEST FLOOR CONSTRUCTION	ON				
2220.332 Crus	shed Stone Under Slab - 8"	5,600.00	CY	37.51	210,056	
2220.332 Crus	shed Stone Under Slab - 8" (Barn Addition)	200.00	CY	37.51	7,502	
	Mil Stego Wrap Under Slab Vapor Barrier - ed Seams	199,167.00	SF	0.71	141,986	
	Mil Stego Wrap Under Slab Vapor Barrier - ed Seams (Barn Addition)	6,710.00	SF	0.71	4,784	
	SOG (Non pile/pier areas)	122,967.00	SF	6.55	805,901	
	SOG - (Agg Pier Areas)	50,222.00	SF	7.40	371,834	
	SOG - (Barn Addition)	6,100.00	SF	7.40	45,163	
	id Insulation - 2" Underslab (Barn Addition)	6,710.00	SF	2.08	13,982	
	OWEST FLOOR CONSTRU	0,110.00	Oi.	2.00	1,601,208 4,701,798	
	RSTRUCTURE				, , , , ,	
	OOR CONSTRUCTION					
3000.015 Trov		124,281.00	SF	0.56	69,237	
3000.015 110V		124,281.00	SF	0.50	12,030	1
	tect & Cure Steel @ Slabs On Metal Deck	49,367.18	SF LB	0.10	39,000	1
	•		SF			1
3200.315 6x6	e Mesh Accessories	136,709.10 124,281.00	SF SF	0.78	106,633	1
	o On Metal Deck Concrete		CY	36.57	70.047	1
3300.033 SIAD	On Wetal Deck Concrete	1,974.69	Οĭ	30.57	72,217	
				1	1	1



Job #: 15027

Project Size: 304,514 SF Detail - With Taxes and Insurance

Item	Description	Quantity	UM	Total	Total	
Code	·			UnitCost	Cost	
2002 445	0000 B : 0	4.074.00	0) (		400.540	
	3000 Psi Concrete	1,974.69	CY	98.00	193,519	
	Concrete Pumping	1,974.69	CY	8.00	15,797	
	Structural Steel at Addition - 12 lbs/ sf	1,783.00	TON	3,100.00	5,527,300	
	2"X20ga Painted Mtl Deck	136,709.10	SF	1.95	266,583	
	Spray Fireproofing - Roof Deck	172,967.00	SF	1.50	259,451	
7850.001	Spray Fireproofing - Structural Steel	316,091.00	SF	2.50	790,228	
*** Total B101	0 - FLOOR CONSTRUCTION				7,351,995	
B1020	- ROOF CONSTRUCTION					
	Steel Joists (2 lbs/ SF)	161.00	TON	1,800.00	289.800	
	Steel Joists (2 lbs/ SF) CTC	101.00	TON	1,800.00	200,000	
	1-1/2"X20ga Galv Mtl Deck	198,912.00	SF	1,000.00	338,150	
		190,912.00			330,130	
	1-1/2"X20ga Galv Mtl Deck CTC	1.00	SF	1.70	20,000	
	Miscellaneous Metals (Angle at Roof Curb)	1.00	LS	20,000.00	20,000	
	Roof edge blocking	8,400.00	LF	7.78	65,311	
	Roof Trusses w/ sheathing (Barn Addition)	6,100.00	SF	8.00	48,800	
	Pavilion Framing (50' Dia Riding Ring)	3,300.00	SF	18.38	60,657	
	Entrance Canopy	2.00	EA	45,000.00	90,000	
	Entrance Canopy	2.00	EA	50,000.00	100,000	
*** Total B102	0 - ROOF CONSTRUCTION				1,012,718	
** Total B10 - \$	SUPERSTRUCTURE				8,364,713	
B20 - FX	TERIOR CLOSURE					
	- EXTERIOR WALLS					
		104.000.00	C.E.	24.00	2.502.240	
	Brick Veneer (70% Envelope)	104,260.00	SF	24.00	2,502,240	
6100.612	2x6 Partitions w/ 1/2" OSB Sheathing - 12' Ht	3,880.00	SF	4.60	17,836	
0000 540	(Barn Addition)	0.000.00	05		04.000	
6200.512	T&G Siding - Red Cedar (6" Exposure) (Barn	3,880.00	SF	8.00	31,036	
7040.000	Addition)	404 000 00	0.5	2.00	040 700	
	3" Spray Foam Insulation (R-21)	104,260.00	SF	3.00	312,780	
	Air Infiltration Barrier - Fluid Applied	104,260.00	SF	2.50	260,650	
9280.051	6" LGS Stud w/ 5/8" GWB and 5/8" Densglass -	104,260.00	SF	12.42	1,294,565	
	Ext Partitions					
^^^ Total B2010	0 - EXTERIOR WALLS				4,419,107	
B2020	- WINDOWS					
8800.800	Curtainwall (30% Envelope)	42,753.00	SF	5.00	213,765	
	Curtainwall (30% Envelope)	42,753.00	SF	70.00	2,992,710	
	Barn Windows (Barn Addition)	10.00	EA	600.00	6,000	
*** Total B202					3,212,475	
					, ,	
	- EXTERIOR DOORS	0.00		4 700 70	5 000	
	Sliding Barn Door (Barn Addition)	3.00	EA	1,788.76	5,366	
	3070 Exterior Door	21.00	EA	1,404.76	29,500	
	3070 HM Door (Barn Additon)	8.00	EA	1,104.76	8,838	
	6070 Exterior Door	17.00	EA	2,065.16	35,108	
	Overhead Door	2.00	EA	8,000.00	16,000	
	Overhead Door (AT, AC, BT)	6.00	EA	8,000.00	48,000	
*** Total B203	0 - EXTERIOR DOORS				142,812	
** Total B20 - I	EXTERIOR CLOSURE				7,774,394	
B30 - RC	OFING					
	- ROOF COVERINGS					
		9 000 00	SF	1 15	0.217	
	12" Batt Insulation (R38) (Barn Addition)	8,020.00		1.15	9,217	
	Asphalt Single Roof (50' Dia Riding Ring)	3,300.00	SF	5.79	19,119	
	Asphalt Single Roof (Barn Addition)	8,020.00	SF	5.79	46,465	
	Thermoplastic Membrane Roof	172,967.00	SF	10.00	1,729,670	
	Entrance Canopy Roof	2.00	EA	30,000.00	60,000	
*** fotal B301	0 - ROOF COVERINGS				1,864,470	
B3020	- ROOF OPENINGS					
					1	



Job #: 15027

Project Size: 304,514 SF Detail - With Taxes and Insurance

Item Code	Description	Quantity	UM	Total UnitCost	Total Cost	
	40.444.0	2.22				
	4' Sq Hatch Cover - Stainless Steel	3.00	EA	7,349.20	22,048	
	0 - ROOF OPENINGS				22,048	
** Total B30 - I	ROOFING				1,886,518	
	TERIOR CONSTRUCTION					
	- PARTITIONS					
	8" CMU Partitions - 14' Ht (Gym)	6,720.00	SF	10.00	67,200	
5500.000	Miscellaneous Metals (Angle at CMU Partitions)	1.00	LS	18,000.00	18,000	
6010.000	In Wall Blocking	1.00	LS	50,000.00	50,000	
	In Wall Blocking	1.00	LS	24,437.84	24,438	
8800.000	Glazed Partitions	2,200.00	SF	60.00	132,000	
9270.001	Tape Gypsum Walls - Level 4 (String coat, 2	484,380.00	SF	0.75	363,285	
	finish coats, sanding)					
9280.030	Classroom Fit Up (Barn Addition) 2 - Classrooms	450.00	SF	30.00	13,500	
9285 005	LGS Partitions w/ 5/8" GWB, Sound Batt -	160,400.00	SF	8.61	1,381,220	
0200.000	Interior	100,100.00	O.	0.01	1,001,220	
9285.013	LGS Furred Partition - Interior	21,100.00	SF	5.09	107,479	
	Fire Stopping	1.00	LS	15,000.00	15,000	
	Fire Stopping	1.00	LS	60,000.00	60,000	
	Misc Drywall Work	1.00	LS	40,000.00	40,000	
	Misc Drywall Work	1.00	LS	10,000.00	10,000	
	0 - PARTITIONS	1.00	LO	10,000.00	2,282,122	
					2,202,122	
C1020	- INTERIOR DOORS					
	3070 Interior Door	482.00	EA	1,204.76	580,694	
8012.020	6070 Interior Door	82.00	EA	1,765.16	144,743	
	Corridor Lock Down Hardware	1.00	LS	50,000.00	50,000	
	Interior Borrowed Lites	57.00	EA	609.52	34,743	
*** Total C102	0 - INTERIOR DOORS				810,180	
C1030	- SPECIALTIES / MILLWORK					
6400.000	6'-0" Laminated Maple Bench	20.00	EA	992.58	19,852	
	Base Cabinets (Classrooms)	886.00	LF	266.10	235,768	
	Full Height Cabinets (Classrooms)	391.00	LF	306.10	119,687	
	Wall Cabinets (Classrooms)	651.00	LF	191.10	124,409	
	Full Height Cabinets (Mail Room)	24.00	LF	306.10	7,346	
	Restroom Wood Apron at Solid Surface	288.00	LF	159.92	46,057	
	Solid Surface Restroom Counter w/ integral	288.00	LF	221.90	63,908	
	sink				,	
6400.308	Countertops-Solid Surface (Classrooms)	886.00	LF	191.10	169,318	
	Wall Mount Solid Surface Counter (Mail/Work	71.00	LF	216.10	15,343	
	Room)				·	
6400.315	Countertops - Epoxy Resin	546.00	LF	161.64	88,254	
	Solid Surface Window Sill and Apron (New	2,205.00	LF	64.26	141,688	
	Const Only)	,			,	
6401.052	Wall Cabinets - Solid Surface (Science Labs)	410.00	LF	161.65	66,275	
	Full Height Cabinets - Solid Surface (Science	410.00	LF	255.73	104,848	
	Labs)				. ,	
6405.006	Wood Cubbies - Mail Room	24.00	LF	251.10	6,026	
	Casework Allowance (Misc)	1.00	LS	231,000.00	231,000	
	Closet Shelving	1.00	LS	10,000.00	10,000	
	*** DESK MILLWORK***		-		,	
	Admin/Guidance Front Desk	31.00	LF	441.10	13,674	
	Library Desk	78.00	LF	491.10	38,306	
	FRP Panels 10' ht - Kitchen	3,518.00	SF	7.14	25,133	
	FRP Panels 8' ht - at Janitorial sinks only	1,510.22	SF	7.14	10,789	
	FRP Panels - Art Rooms	80.00	SF	7.14	572	
	Toilet Partitions W/ Door - Phenolic	42.00	EA	430.52	18,082	
	Urinal Screen - Phenolic	10.00	EA	305.52	3,055	
				]	3,300	



Job #: 15027

Project Size: 304,514 SF Detail - With Taxes and Insurance

Item Code	Description	Quantity	UM	Total UnitCost	Total Cost	
	Shower Door	18.00	EA	277.76	5,000	
	Locker Room Bench	80.00	LF	80.28	6,422	
10191.100	Privacy Curtain: Track W/Supports (No Curtain) - Nurse	64.00	LF	22.50	1,440	
10195.101	Display & Trophy Case Allowance	1.00	LS	40,000.00	40,000	
10410.150	Sigange	1.00	LS	10,000.00	10,000	
10410.150		1.00	LS	78,000.00	78,000	
10500.002	Staff Lockers - Single Tier (3' X 15" X 15") - Kitchen	15.00	EA	180.55	2,708	
10500.002	Staff Lockers - Single Tier (3' X 15" X 15") - Staff	100.00	EA	180.55	18,055	
10500.004	Lockers - Double Tier (6' X 18" X 18") - Student	1,500.00	EA	270.55	405,819	
10500.006	Lockers - Double Tier - Locker Rooms (100 per Room)	200.00	EA	270.55	54,109	
10500.006	Lockers - Double Tier - Student Athletic	50.00	EA	270.55	13,527	
	Fire Extinguishers	102.00	EA	125.46	12,797	
	Fire Ext Cabinets	102.00	EA	302.76	30,882	
	Operable Wall Partition (57' L x 28' HT)		SF	99.95		
10800.106		38.00	EA	101.38	3,852	
	Surface Mtd Double Roll Tph	38.00	EA	197.38	7,500	
	Surface Mounted SND	20.00	EA	377.38	7,548	
	Surf Mtd Waste Receptacle	23.00	EA	282.38	6,495	
	Liquid Soap Dispenser	23.00	EA	177.38	4,080	
	Folding Shower Seat	18.00	EA	301.38	5,425	
	Electric Hand Dryer	20.00	EA	301.38	6,028	
	30"x30" Framed Mirror	34.00	EA	211.38	7,187	
	0 - SPECIALTIES / MILLWORK	04.00	LA	211.00	2,286,264	
	INTERIOR CONSTRUCTION				5,378,566	
	AIRCASES					
	- STAIR CONSTRUCTION					
	8" CMU Partitions - 14' Ht (Stair Shafts) ****Metal Stairs****	15,344.00	SF ****	10.00	153,440	
	Metal Pan Stair - Standard	240.00	TRD	433.27	103,984	
5510.052 5520.000	Metal Pan Stair Landing - Standard *** Handrails & Railings ***	600.00	SF ****	71.60	42,958	
5520.050	Hand Rail - Standard Metal Picket	336.00	LF	119.42	40,126	
5520.072	Steel Wallrail - Standard	336.00	LF	65.93	22,153	
	0 - STAIR CONSTRUCTION			1	362,660	
* Total C20 - \$	STAIRCASES				362,660	
	TERIOR FINISHES - WALL FINISHES					
	Wood Wall Finish - Auditorium	11,200.00	SF	25.00	280,000	
	Tile Wainscot - 4' AFF (Corridors)	23,840.00	SF	10.00	238,400	
	Tile Wainscot - 4' AFF (Town Square)	7.680.00	SF	10.00	76,800	
	Tile Wainscot - 4' AFF (Toilet Rooms)	5,830.00	SF	10.00	58,300	
	Tile Wainscot - Premium for 5' AFF	9,338.00	SF	10.00	93,380	
	everywhere including stairwells Paint Interior Walls (Barn Addition)	3,528.00	SF	0.82	2.893	
	Paint Walls	484,380.00	SF SF			
		484,380.00 1.00		0.85	411,723	
	Misc Painting - Door Frames, Misc Metals Misc Painting - Door Frames, Misc Metals	1.00	LS LS	10,000.00	10,000 40,000	
	0 - WALL FINISHES	1.00	LO	40,000.00	1,211,496	
C3020	- FLOOR FINISHES					
9300.105	Tile Base	871.00	LF	10.00	8,710	
9330.000	Quarry Tile Floors - Culinary	2,000.00	SF	15.00	30,000	
	Quarry Tile Floors - Kitchen	3,300.00	SF	15.00	49,500	



Job #: 15027

Project Size: 304,514 SF Detail - With Taxes and Insurance

Item Code	Description	Quantity	UM	Total UnitCost	Total Cost
0000					
	Quarry Tile Base	760.00	LF	12.00	9,120
	Porecelain Tile Floor - Culinary	950.00	SF	15.00	14,250
	Mosaic Tile - Bath, Locker Rooms	12,230.00	SF	12.00	146,760
9550.100	Wood Floor - Gym	13,740.00	SF	18.00	247,320
9550.120	Wood Floor - Stage	2,620.00	SF	16.00	41,920
9650.010	Linoleum	185,040.00	SF	6.00	1,110,240
9650.025	Rubber Base	35,167.00	LF	1.85	65,059
9650.032	Rubber Treads & Risers	5,760.00	SF	14.00	80,640
9680.000	Carpet - Auditorium	820.00	SY	35.00	28,700
	Carpet Tile	1,200.00	SY	35.00	42,000
	Rubber Sports Flooring	4,934.00	SF	12.45	61,415
	Moisture Mitigation	4,934.00	SF	4.00	19,736
	Moisture Mitigation	-4,934.00	SF	8.00	-39,472
	Sealed Concrete	44,180.00	SF	1.50	66,270
			SF		I
	Sealed Concrete (Barn Addition)	12,200.00		1.50	18,300
	Paint Gym Floor Logo	1.00	LS	3,000.00	3,000
126/1.103	Walk-Off Foot Grilles (Alum Grid W/ Frame &	570.00	SF	72.08	41,085
	Pan)				
*** Total C3020	) - FLOOR FINISHES				2,044,553
C3030 -	CEILING FINISHES				
	Gypsum Ceiling: Suspended drywall grid 5/8"	17,990.00	SF	5.31	95,475
	type X GWB (1 layer), taped (lvl 4)	17,000.00	01	0.01	30,470
	Misc Drywall Soffits	1.00	LS	119,999.73	120,000
		1.00	LS	29,999.96	30,000
	Misc Drywall Soffits ACT - Restaurant	7,380.00	SF	29,999.90	59,040 59,040
		,			
9500.102		196,410.00	SF	3.00	589,230
	ACT(Cleanable) - Kitchen	5,330.00	SF	8.00	42,640
	24x24x5/8 Lay-In (Barn Addition)	900.00	SF	3.00	2,700
	Acoustical Wood Clouds - Auditorium	2.00	LS	40,000.00	80,000
9500.612	Tectum Ceilng Panels - 2"	6,870.00	SF	8.00	54,960
9900.110	Paint Ceilings	29,190.00	SF	0.85	24,812
9900.120	Paint Exposed Ceiling Structure	49,800.00	SF	1.75	87,150
	Paint exposed ceiling - Gym	13,740.00	SF	2.00	27,480
	) - CEILING FINISHES	,			1,213,486
	NTERIOR FINISHES				4,469,534
D10 - CO	NVEYING SYSTEMS				
	ELEVATOR				
		128.00	oe	14.42	1 0/16
	12" Base Slab		SF		1,846
	12" x 5' Foundation Wall	72.00	LF CF	128.35	9,241
	Drywall Partitions - 14' Ht (Elevator)	3,854.00	SF	10.00	38,540
	Elevator Pit Misc Metals	2.00	EA	1,813.09	3,626
	Hydraulic Passenger Elevator (1 Ea)	5.00	STOP	40,000.00	200,000
*** Total D1010					253,253
** Total D10 - C	CONVEYING SYSTEMS				253,253
D20 - PLI	UMBING				
	LUMBING				
	Domestic Water Heater, Residential Gas-Fired	2.00	EA	1,846.55	3,693
	(NG/P) Atmospheric, Foam Lined Tank, Vent Not Included, 100 Gal.	2.00	LA	1,040.55	0,000
	Domestic Water Heater, Commercial Gas-	2.00	EA	20,161.00	40,322
	Fired (NG/P) Atmospheric, Std. Controls, Vent		ļ		
	Not Included, 250 MBH Input, 245 GPH		ļ		
	Potable Water Storage Tank, Indoor, Glass-	1.00	EA	14,258.38	14,258
	Lined PE, 605 Gal., 48" OD, 87" Long			,	·
	Round, Stainless Steel, 26 ga., 8" OD - Water	120.00	LF	28.30	3,396
	Heater Vent		· ]		-,



Job #: 15027

Project Size: 304,514 SF Detail - With Taxes and Insurance

Item	Description	Quantity	UM	Total	Total	
Code				UnitCost	Cost	
15402.452	Sump Pump, Wet-Pit Mounted, Vertical, Single Stage, 25 GPM, 1 HP, 1-1/2" Disch.	2.00	EA	4,055.67	8,111	
15410.208	Comm. Water Closet, Floor Mounted VC, Flush Valve, Bowl only, incl. Seat, w/Floor	80.00	EA	753.67	60,294	
	Outlet 1.28 gpf ADA					
15410.210	Rough-In, Supply, Waste and Vent for Comm. Floor Mounted WC	80.00	EA	562.00	44,960	
15410.404	Urinal, Wall Hung VC w/ Hanger and Valve, Water Saving 0.5 gpf	16.00	EA	843.38	13,494	
15410.406	Rough-In, Supply, Waste and Vent for Wall Hung Urinal	16.00	EA	705.00	11,280	
15410.640	Rough-In, Supply, Waste and Vent for Res. Vanity Top Lavatories	96.00	EA	547.00	52,512	
15410.640	Rough-In, Supply, Waste and Vent for Salon Lavatories (no fixture)	10.00	EA	547.00	5,470	
15410.698	Sink w/Faucet and Drain, SS Self Rimming, 43"x22" Double Bowl	30.00	EA	1,286.48	38,595	
15410.702	Rough-In, Supply, Waste and Vent for Sinks	30.00	EA	702.00	21,060	
	Laboratory Sink, Corrosion Resistant, 12"x12"x8" Sink, 14.5"x14.5" OD	44.00	EA	471.80	20,759	
15410.832	Rough-In, Supply, Waste and Vent for Laboratory Sinks	44.00	EA	461.00	20,284	
15410.834	Laboratory Faucet, Gooseneck Spout, Wrist Handles	44.00	EA	235.80	10,375	
15410.840	Service Sink, Floor (Corner), PE, 28"x28" w/Rim Guard	15.00	EA	1,233.66	18,505	
15410.844	Rough-In, Supply, Waste and Vent for Floor Service Sink	15.00	EA	1,827.00	27,405	
15411.101	Hose Bibb, Exterior Freeze-Proof, Lockable	29.00	EA	105.40	3,056	
	Stall Shower, One-Piece Fiberglass w/Three Walls, Drain Only, 32" Square	18.00	EA	645.94	11,627	
15411.326	Thermostatic Valve for Shower	18.00	EA	585.00	10,530	
15411.328	Rough-In, Supply, Waste and Vent for Shower	18.00	EA	818.00	14,724	
	Emergency Shower, Single Head, Drench, Ball Valve, Pull Style, Freestanding, No Rough-In	8.00	EA	573.80	4,590	
15411.908	Emergency Eyewash Fountain, SS Bowl, Pedestal Mount, No Rough-In	8.00	EA	533.80	4,270	
15412.222	Electric Water Cooler, Wall Mounted, Full Recessed, SS, Bi-Level	27.00	EA	1,871.46	50,530	
15412.236	Rough-In, Supply, Waste and Vent for Electric Water Cooler	27.00	EA	504.00	13,608	
15412.434	Floor Drain, Heavy Ducty, Galvanized w/Sediment Bucket, 12" OD Grate, 2"-6" Pipe Size	22.00	EA	1,131.14	24,885	
15412.730	Roof Drain, Integral Expansion Joint, Galvanized, 12" Dome, 4" Pipe Size	87.00	EA	1,074.20	93,455	
15412.730	Roof Drain, Integral Expansion Joint, Galvanized, 12" Dome, 4" Pipe Size - Emergency	87.00	EA	1,074.20	93,455	
15414.104	Water Meter, UL/FM Approved, 4" Main x 2" By-Pass, 700 GPM	1.00	EA	7,535.08	7,535	
15414.126	Water Meter, Bronze, Comm./Dom., Flanged, 4" OD, 320 GPM	2.00	EA	5,366.82	10,734	
15420.106	Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 3/4" OD	11,075.00	LF	10.64	117,797	
15420.108	Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 1" OD	8,525.00	LF	14.02	119,480	
15420.114	Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 2" OD	5,000.00	LF	31.93	159,632	



Job #: 15027

Project Size: 304,514 SF Detail - With Taxes and Insurance

Item	Description	Quantity	UM	Total	Total	
Code				UnitCost	Cost	
15420.118	Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 3" OD	1,200.00	LF	76.22	91,458	
15420.122	Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 4" OD	300.00	LF	125.23	37,570	
15421.104	Fiberglass 1" Insulation With All Service Jacket 3/4" Pipe	11,075.00	LF	3.96	43,885	
15421.106	Fiberglass 1" Insulation With All Service Jacket 1" Pipe	8,525.00	LF	4.16	35,471	
15421.204	Fiberglass 1-1/2" Insulation With All Service Jacket 2" Pipe	5,000.00	LF	5.87	29,355	
15421.208	Fiberglass 1-1/2" Insulation With All Service Jacket 3" Pipe	1,200.00	LF	6.58	7,894	
15421.212	Fiberglass 1-1/2" Insulation With All Service Jacket 4" Pipe	300.00	LF	7.78	2,335	
15421.500	Valves and Accessories	1.00	LS	500.00	500	
15421.500	Valves and Accessories	1.00	LS	145,000.00	145,000	
	UG Hub & Spigot, CI, No Hangers, 6" Pipe	1,500.00	LF	52.21	78,321	
	Casty Iron SW&V, Hangers 5' OC, 1-1/2" Pipe	8,075.00	LF	18.61	150,292	
	Casty Iron SW&V, Hangers 5' OC, 2" Pipe	5,050.00	LF	22.45	113,373	
	Casty Iron SW&V, Hangers 5' OC, 4" Pipe	2,040.00	LF	31.69	64,650	
15440.382	Corrosion Resistant Pipe, Sch. 40 Polypropylene, No Coupling/Hangers, 2" OD - GW	2,000.00	LF	24.95	49,900	
15440.386	Corrosion Resistant Pipe, Sch. 40 Polypropylene, No Coupling/Hangers, 4" OD - GW	1,000.00	LF	45.25	45,248	
15//0 500	Limestone Chip Acid Neutralizer - 200 Gallon	2.00	EA	17,500.00	35,000	
	Sch40 PVC W/Couplings and Hangers, 10ft OC, 4" OD	2,000.00	LF	24.48	48,968	
15450.412	Sch40 PVC W/Couplings and Hangers, 10ft OC, 6" OD	500.00	LF	37.11	18,557	
15460.100	Black Steel, Schedule 40, Threaded W/Couplings And Hangers, 10ft OC, 2" OD - NG	6,000.00	LF	21.06	126,375	
15460.102	Black Steel, Schedule 40, Threaded W/Couplings And Hangers, 10ft OC, 1-1/4" OD - NG	6,000.00	LF	14.47	86,826	
15/160 200	Valves and Accessories	1.00	LS	55,000.00	55,000	
	Air Compressor, Reciprocating, Air-Cooled, Tank Mounted, Two Stage, 3 Phase, 105 CFM @ 125 PSI, 25 HP, 250 Gal. Tank	2.00	EA	14,100.00	28,200	
15470.100	Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 3/4" OD - CA	1,200.00	LF	10.64	12,764	
15470.102	Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 1" OD	600.00	LF	14.02	8,409	
15470.212	Compressed Air Outlet, Recessed Wall, Single	80.00	EA	123.75	9.900	
	Kitchen Rough-In	2.00	LS	15,000.00	30,000	
	Commissioning Support	1.00	LS	1,000.00	1,000	
		1.00	LS		60.000	
	Commissioning Support			60,000.00	· · ·	
	Coordination & Management	1.00	LS	1,000.00	1,000	
	Coordination & Management	1.00	LS	75,000.00	75,000	
15495.008	Coring & Patching & Firestopping	1.00	LS	500.00	500	
15495.008	Coring & Patching & Firestopping	1.00	LS	30,000.00	30,000	
	Flushing & Sanitizing	1.00	LS	250.00	250	
	Flushing & Sanitizing	1.00	LS	20,000.00	20,000	
	Fees & Permits	1.00	LS	500.00	500	
	Fees & Permits	1.00	LS			
		1.00	LO	30,000.00	30,000	
*** Total D20 - ** Total D20 -					2,728,183 2,728,183	
D30 - HV					2,120,100	
				1		



Job #: 15027

Project Size: 304,514 SF Detail - With Taxes and Insurance

Item Code	Description	Quantity	UM	Total UnitCost	Total Cost
D30 - H	IVAC				
		24.00		1 200 00	20,000
	Custom, 20" High, Insulated Roof Curb	24.00	EA	1,200.00	28,800
15620.323	Outdoor, MAU, Indirect Gas-Fired (NG),	2.00	EA	18,086.92	36,174
	Gravity Vent, SS Exchanger, 70degF Rise,				
	550 MBH Input				
15620.421	RTU 1-6, Stnd Controls, Curb, Econ., Multi-	6.00	EA	2,907.71	17,446
	Zone, Gas Heat, 42.5 Ton Dx Cooling, 530				
	MBH Heating, Heat Wheel, 12000 CFM				
15620.422	RTU 7, Stnd Controls, Curb, Econ., Multi-	1.00	EA	2,907.71	2,908
	Zone, Gas Heat, 17.5 Ton Dx Cooling, 200				
	MBH Heating, Heat Wheel, 4500 CFM				
15620.423	RTU 8, Stnd Controls, Curb, Econ., Multi-	1.00	EA	2,907.71	2,908
	Zone, Gas Heat, 30 Ton Dx Cooling, 350 MBH				
	Heating, Heat Wheel, 8000 CFM				
15620.424	RTU 9, 10, Stnd Controls, Curb, Econ., Multi-	2.00	EA	2,907.71	5,815
	Zone, Gas Heat, 22 Ton Dx Cooling, 320 MBH			· ·	·
	Heating, 6500 CFM				
15620.425	RTU 11, Stnd Controls, Curb, Econ., Multi-	1.00	EA	2,907.71	2,908
	Zone, Gas Heat, 7.5 Ton Dx Cooling, 130			, i	, i
	MBH Heating, 2500 CFM				
15620.426	RTU 12, Stnd Controls, Curb, Econ., Multi-	1.00	EA	2,907.71	2,908
	Zone, Gas Heat, 6.5 Ton Dx Cooling, 120			,	,
	MBH Heating, 2000 CFM				
15620.427	RTU 13, 14, Stnd Controls, Curb, Econ., Multi-	2.00	EA	2,907.71	5,815
	Zone, Gas Heat, 10 Ton Dx Cooling, 200 MBH			_,	5,5.5
	Heating, 3200 CFM				
15620 428	RTU 15, Stnd Controls, Curb, Econ., Multi-	1.00	EA	2,907.71	2,908
10020.120	Zone, Gas Heat, 35 Ton Dx Cooling, 480 MBH	1.00		2,001.11	2,000
	Heating, 10000 CFM				
15620 429	RTU 16, Stnd Controls, Curb, Econ., Multi-	1.00	EA	2,907.71	2,908
10020.120	Zone, Gas Heat, 10 Ton Dx Cooling, 180 MBH	1.00		2,007.77	2,000
	Heating, 4000 CFM				
15620 430	RTU 17, Stnd Controls, Curb, Econ., Multi-	1.00	EA	2,907.71	2,908
10020.100	Zone, Gas Heat, 15 Ton Dx Cooling, 200 MBH	1.00		2,007.77	2,000
	Heating, 3500 CFM				
15620 431	RTU 18, Stnd Controls, Curb, Econ., Multi-	1.00	EA	2,907.71	2,908
10020.401	Zone, Gas Heat, 35 Ton Dx Cooling, 550 MBH	1.00		2,507.71	2,000
	Heating, Heat Wheel, 12500 CFM				
15620 432	RTU 19, Stnd Controls, Curb, Econ., Multi-	1.00	EA	2,907.71	2,908
10020.402	Zone, Gas Heat, 300 MBH Heating, Heat	1.00		2,007.77	2,000
	Wheel, 6000 CFM				
15620 433	RTU 20, Stnd Controls, Curb, Econ., Multi-	1.00	EA	2,907.71	2,908
10020.400	Zone, Gas Heat, 300 MBH Heating, Heat	1.00		2,007.77	2,000
	Wheel, 6000 CFM				
15620 434	RTU 21, Stnd Controls, Curb, Econ., Multi-	1.00	EA	2,907.71	2,908
10020.404	Zone, Gas Heat, 200 MBH Heating, Heat	1.00		2,007.77	2,000
	Wheel, 3500 CFM				
15620 435	RTU 22, Stnd Controls, Curb, Econ., Multi-	1.00	EA	2,907.71	2,908
10020.400	Zone, Gas Heat, 400 MBH Heating, Heat	1.00		2,307.71	2,300
	Wheel, 8000 CFM				
15620 436	RTU 23, Stnd Controls, Curb, Econ., Multi-	1.00	EA	2,907.71	2,908
13020.430		1.00	EA	2,907.71	2,900
	Zone, Gas Heat, 300 MBH Heating, Heat		[		
15620 427	Wheel, 6000 CFM	1 00	E^	2 007 74	2 000
10020.43/	RTU 24, Stnd Controls, Curb, Econ., Multi-	1.00	EA	2,907.71	2,908
	Zone, Gas Heat, 300 MBH Heating, Heat		[		
15000 500	Wheel, 6200 CFM	4.00	. [	4 400 000 00	4 400 000
10020.500	Daikin Rebel / Maverick II RTU's - VFD's, Extended Warranties	1.00	LS	1,100,000.00	1,100,000



Job #: 15027

Project Size: 304,514 SF Detail - With Taxes and Insurance

ltem	Description	Quantity	UM	Total	Total	
Code				UnitCost	Cost	
15624.003	Split System, Ductless, Cooling Only, Wall Mount, Single Zone, 1-1/2 Ton	5.00	EA	6,013.00	30,065	
15630.220	Single Bathroom Exhaust Fan, 100 CFM	7.00	EA	403.45	2,824	
15630.226	Bathroom Exhaust Fan, 1000 CFM	10.00	EA	1,680.56	16,806	
15630.228	Exhaust Fan, 1500 CFM	3.00	EA	2,180.56	6,542	
15630.416	Kitchen Exhaust Fan, Centrifugal, 4000 CFM	2.00	EA	4,215.33	8,431	
15640.112	Hot Water Condensing Boiler, Packaged w/Controls/Circulator/Trim, NG, 330 MBH Output	3.00	EA	10,214.00	30,642	
15640.114	Hot Water Condensing Boiler, Packaged w/Controls/Circulator/Trim, NG, 2500 MBH Output	4.00	EA	47,814.00	191,256	
15650.002	Glycol Treatment System	1.00	LS	8,000.00	8,000	
	Chiller, Air Cooled, High Efficiency, 50 Ton	1.00	EA	42,927.00	42,927	
	Fume Hood, Fan, Ductwork	2.00	EA	5,500.00	11,000	
	Vehicle Exhaust System, 2000 CFM	1.00	LS	15,000.00	15,000	
	Vehicle Exhaust System, 5000 CFM	1.00	LS	25,000.00	25,000	
	Paint Booth Exhaust System, 12000 CFM	1.00	LS	25,000.00	25,000	
	Dust Collection System, 4000 CFM	1.00	LS	65,000.00	65,000	
	Duct Collection System, 6000 CFM	1.00	LS	87,000.00	87,000	
	Chilled Water Pump, Centrifugal, Base Mounted, End Suction, 105 gpm w/VFD	2.00	EA	4,096.31	8,193	
	Hot Water Pump, Centrifugal, Base Mounted, End Suction, 100 gpm w/VFD	2.00	EA	3,994.33	7,989	
	Hot Water Pump, Centrifugal, Base Mounted, End Suction, 680 gpm w/VFD	2.00	EA	17,994.33	35,989	
	Displacement Ventilation System (per Classroom)	95.00	EA	1,250.00	118,750	
	Sound Attenuator Device / Double Wall Ductwork (per RTU)	24.00 252,000.00	EA LB	2,500.00	60,000 1,889,975	
	Galvanized Ductwork, > 5000 LB Duct Insulation, Blanket Type, Fiberglass, FSK, 1.0Lb Density, 1-1/2" Thick	217,000.00	SF	2.53	549,661	
15688.014	Gas Vent, Double Wall, Galvanized Steel, UL Listed, 12" Dia.	700.00	LF	48.66	34,064	
15690.102	Fin Tube Radiation, Wall Hung, 14" Slope Top, 1-1/4" Cu Tube, 4-1/4" Aluminum Fin	3,630.00	LF	64.10	232,683	
	Cabinet Unit Heater, Horizontal, Floor Mount, 60 MBH	32.00	EA	1,617.26	51,752	
	Unit Heater, Hot Water, Horizontal, 47 MBH	17.00	EA	717.26	12,193	
	Variable Air Volume Box, Pl, w/Damper, Actuator, T-Stat, 1000 CFM	125.00	EA	890.00	111,250	
	Chilled Beam	640.00	LF	100.00	64,000	
	Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 3/4" OD	22,000.00	LF	10.64	233,999	
	Copper Type L, Solder Joint W/Couplings And Hangers 10ft OC, 1-1/2" OD Copper Type L, Solder Joint W/Couplings And	11,000.00	LF LF	22.40	246,362	
	Hangers 10ft OC, 3" OD Black Steel, Schedule 40, Welded	2,400.00 400.00	LF LF	62.36 45.02	149,656 18,010	
	W/Couplings And Hangers, 10ft OC, 4" OD Fiberglass 1" Insulation With All Service Jacket	22,000.00	LF	3.96	87,175	
	3/4" Pipe Fiberglass 1-1/2" Insulation With All Service	11,000.00	LF	5.49	60,390	
	Jacket 1-1/2" Pipe Fiberglass 2" Insulation With All Service Jacket	2,400.00	LF	8.10	19,428	
	3" Pipe Fiberglass 2" Insulation With All Service Jacket	400.00	LF	9.71	3,883	
	4" Pipe Air Separator w/Strainer, 2-1/2" Dia.	1.00	EA	1,439.16	1,439	



Job #: 15027

Project Size: 304,514 SF Detail - With Taxes and Insurance

léa ma	Description	Ouantitu	1184	Total	Tatal I	
Item Code	Description	Quantity	UM	Total UnitCost	Total Cost	
45705.000	Air Consentence (Observer All Dis	4.00	Ε.Δ.	2 000 00	2.000	
	Air Separator w/Strainer, 4" Dia.	1.00	EA	3,098.60	3,099	
15706.206	Expansion Tank, Steel, ASME, Rubber Diaphragm, 61 Gal. Accep. Vol.	1.00	EA	3,786.82	3,787	
15706.214	Expansion Tank, Steel, ASME, Rubber	1.00	EA	6,573.73	6,574	
15708.106	Diaphragm, 211 Gal. Accep. Vol. ARC Tubing, Type L Copper, Hard Tempered, No Couplings/Hangers, 5/8"	1,000.00	LF	7.11	7,110	
15708.112	ARC Tubing, Type L Copper, Hard Tempered, No Couplings/Hangers, 1-1/8"	1,000.00	LF	10.84	10,840	
15708 500	Valves & Accessories	1.00	LS	200.000.00	200,000	
	DDC Controls	302,514.00	SF	5.50	1,663,827	
	DDC Controls	2,000.00	SF	7.50		
		,			15,000	
	CO2 Sensor	167.00	EA	85.00	14,195	
	Air & Water Balance	304,514.00	SF	0.50	152,257	
	Coordination & Management	1.00	LS	1,000.00	1,000	
15801.501	Coordination & Management	1.00	LS	200,000.00	200,000	
15801.502	Commissioning Support	1.00	LS	500.00	500	
	Commissioning Support	1.00	LS	65,000.00	65,000	
	Coring, Patching & Firestopping	1.00	LS	250.00	250	
	Coring, Patching & Firestopping	1.00	LS	40,000.00	40,000	
	Seismic Restraint	1.00	LS	500.00	500	
	Seismic Restraint	1.00	LS	25,000.00	25,000	
	Fees & Permits	1.00	LS	75,000.00	75,000	
*** Total D30 -					8,281,029	
** Total D30 - I	HVAC				8,281,029	
DAN EIE	RE PROTECTION					
	IRE PROTECTION					
15502.002	Fire Service Main - 6" Ductile Iron, Mech. Joint	150.00	LF	29.06	4,358	
	6" Double Check Backflow Preventer W/OS&Y Valves, 4 Test Cocks	2.00	EA	5,847.73	11,695	
15502.110	FDC - Two Way Siamese - 3x3x6	2.00	EA	1,541.40	3,083	
15502.116	4" Zone Flow Control Valve W/Trim And Gauges	8.00	EA	6,009.14	48,073	
15502.128	Tamper Switch	8.00	EA	153.65	1,229	
	Sprinkler Main Sch 40 BS - 4", Grooved Joint, W/Hangers 10 Ft O.C.	8,860.00	LF	39.75	352,181	
15502.222	Sprinkler Branch Sch 40 BS - 1" Threaded W/ Hangers 10 Ft O.C.	17,770.00	LF	12.53	222,655	
15502.226	Sprinkler Branch Sch 40 BS - 1-1/2" Threaded W/ Hangers 10 Ft O.C.	8,760.00	LF	16.39	143,576	
15502.400	Sprinkler Heads - Standard Pendant, 1/2" NPT, 1/2" Orifice	2,670.00	EA	36.43	97,255	
15505 006	2" Dry Pipe Valve With Trim And Gauges	1.00	EA	2,507.80	2,508	
	30 Gal., 1 HP Comp Air Sys For Fire	1.00	EA	1,093.23	1,093	
10000.012	Protection	1.00	EA	1,093.23	1,095	
15505.202	Sprinkler Main Sch 40 BS - 4", Grooved Joint, W/Hangers 10 Ft O.C RR	115.00	LF	39.75	4,571	
15505.222	Sprinkler Branch Sch 40 BS - 1" Threaded W/ Hangers 10 Ft O.C RR	190.00	LF	12.53	2,381	
15505.400	Sprinkler Heads - Standard Upright, 1/2" NPT, 1/2" Orifice - RR	20.00	EA	36.43	729	
15525.004	Sprinkler Main Sch 40 BS - 4", Grooved Joint, W/Hangers 10 Ft O.C.	300.00	LF	39.75	11,925	
15525.102	Fd Standpipe Angle Valve, 2-1/2", Brass, W/Wheel, Handle Chain And Cap	8.00	EA	287.34	2,299	
15535 002	Coordination & Management	1.00	LS	20,000.00	20,000	
					, , , , , , , , , , , , , , , , , , ,	
	Hydraulic Calculations	1.00	LS	12,000.00	12,000	
	Coring & Patching & Firestopping	1.00	LS	17,500.00	17,500	
	Fees & Permits FIRE PROTECTION	1.00	LS	12,000.00	12,000 <b>971,111</b>	



Job #: 15027

Project Size: 304,514 SF Detail - With Taxes and Insurance

14	B : 0	0 ("	1184			
Item Code	Description	Quantity	UM	Total UnitCost	Total Cost	
** Total D40	FIRE PROTECTION				971,111	
					971,111	
	ECTRICAL					
	LECTRICAL					
16020.210	350 kW NG Emergency Generator w/Sound Attenuated Enclosure	1.00	EA	169,146.07	169,146	
16020.212	Emergency Power Equipment and Distribution	302,514.00	SF	1.50	453,771	
	Emergency Generator - Testing	1.00	LS	5,000.00	5,000	
16030.000	4000 Amp Switchgear, 480/277V	1.00	EA	90,000.00	90,000	
16030.004	Transformer / Primary / Conduit ** ALLOWANCE **	1.00	LS	50,000.00	50,000	
16040 006	Panel Feeders	64.00	EA	2,500.00	160,000	
	Primary Conduit Only - (1) 4"	800.00	LF	4.40	3,520	
	Secondary Feeder - (8) 4" Conduits	800.00	LF	4.40	3,520	
	Secondary Feeder - #600 MCM Conductor	3,200.00	LF	34.35	109,920	
	Grounding/Bonding	1.00	LS	10,000.00	10,000	
16040 200	20 KW UPS	2.00	EA	20,000.00	40,000	
	Panel 277/480V 100A - Lighting	16.00	EA	1,664.44	26,631	
	Panel 277/480V 100A - Mechanical	16.00	EA	1,664.44	26,631	
	Panel 277/480V 400A - Distribution	16.00	EA	3,328.57	53,257	
	Triple Tub Panel 120/208V 250 Amp	16.00	EA	9,795.00	156,720	
	Transformer Dry Type, Three Phase, 30kVA	16.00	EA	4,928.89	78,862	
	Transformer Dry Type, Three Phase, 30kVA Transformer Dry Type, Three Phase, 75kVA	16.00	EA	7,194.29	115,109	
	Branch Devices		SF	1.00	304,514	
		304,514.00	SF	3.50	· · · · · · · · · · · · · · · · · · ·	
	Power and Branch Circuitry	302,514.00	SF EA		1,058,799	
	RTU Feeder Boiler Feeder	24.00 7.00	EA	2,706.00 1,401.75	64,944 9,812	
		7.00	EA	1,965.75		
	Pump Feeder Chiller Feeder	1.00	EA	•	13,760	
		30.00	EA	8,336.00 340.25	8,336	
	2x4 Flourescent - MER				10,208	
	Recessed LED's - Classrooms/Offices	1,316.00	EA	290.25	381,969	
	Direct LED's - Gymnasium	20.00	EA	1,080.50	21,610	
	Linear Indirect LED's - Corridor	500.00	EA	440.25	220,125	
	Pendant Mount / Indirect Flourescent - Cafeteria	58.00	EA	728.25	42,239	
16080.018	2x2 LED Panels - Kitchen/Servery	36.00	EA	603.25	21,717	
16080.020	Direct Recessed LED's - Library	36.00	EA	290.25	10,449	
16080.022	Dimmable Flourescent - Auditorium	70.00	EA	2,090.25	146,317	
16080.024	Exterior Wall Mount - LED	42.00	EA	628.25	26,387	
16080.026	Exterior Pole Fixture - Custom LED	35.00	EA	4,000.00	140,000	
	Exterior Pendant - LED - RR	15.00	EA	628.25	9,424	
16081.100	Lighting Circuitry	2,000.00	SF	1.25	2,500	
	Lighting Circuitry	302,514.00	SF	2.00	605,028	
	Lighting Controls	304,514.00	SF	1.25	380,642	
16081.104	Lighting Controls & Panels - Testing	1.00	LS	1,000.00	1,000	
16081.104	Lighting Controls & Panels - Testing	1.00	LS	25,000.00	25,000	
16081.150	Stage Lights / Sound System / Dimmer Rack ** ALLOWANCE **	1.00	LS	375,000.00	375,000	
16100.000	Sound System - Cafeteria	1.00	LS	20,000.00	20,000	
	Sound System - Gymnasium	1.00	LS	20.000.00	20,000	
	Sound System - Music Room	1.00	LS	10,000.00	10,000	
	Bi-Directional Antennae	1.00	LS	50,000.00	50,000	
	Tel/ Data/ CATV	304,514.00	SF	1.75	532,899	
	Card Reader System - Head End Equipment	1.00	EA	9,000.00	9,000	
	Card Readers - Swipes/Wires	25.00	EA	1,700.00	42,500	
	Master Clock	304,514.00	SF	0.35	106,580	
16180.001		304,514.00	SF	0.60	182,708	
	Communications - Testing	1.00	LS	20,000.00	20,000	
	Security System - Head End Equipment	1.00	LS	35,000.00	35,000	
	Fixed Interior CCTV Cameras	25.00	EA	3,000.00	75,000	
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Job #: 15027

Project Size: 304,514 SF Detail - With Taxes and Insurance

Item Description	Quantity	UM	Total	Total	
Code			UnitCost	Cost	
16200.004 Pan-Tilt-Zoom Exterior CCTV Cameras	10.00	EA	5,000.00	50,000	
16300.102 Fire Alarm	304,514.00	SF	1.50	456,771	
16300.104 Fire Alarm Testing	1.00	LS	750.00	750	
16300.104 Fire Alarm Testing	1.00	LS	7,500.00	7,500	
16400.002 Lightning Protection	1.00	LS	30,000.00	30,000	
16400.100 Commissioning	1.00	LS	60,000.00	60,000	
16400.102 Firestopping	1.00	LS	20,000.00	20,000	
16400.104 Identification	1.00	LS	7,500.00	7,500	
16400.106 Seismic Restraint	1.00	LS	12,500.00	12,500	
16400.108 Fees & Permits	1.00	LS	50,000.00	50,000	
*** Total D50 - ELECTRICAL				7,230,576	
** Total D50 - ELECTRICAL				7,230,576	
E10 - EQUIPMENT					
E10 - EQUIPMENT, GENERALLY					
11160.034 12" Dock Seal - OH Doors	1.00	EA	1,585.04	1,585	
11160.043 Rubber Dock Bumper 4 1/2"x14"x12"	2.00	EA	166.38	333	
11480.006 OUTDOOR SCOREBOARDS - NOT INCLUDED					
11480.008 Gym Bleachers (One Side Only)	1.00	LS	25,000.00	25,000	
11480.014 Gym Divider Curtain - Existing to remain		LF	160.00		
11480.020 Basketball Hoop - Existing to remain		EA	5,333.33		
11480.030 Volley Ball Net w/ Floor Inserts		EA	1,900.00		
11480.040 Score Board - Existing to remain		EA	8,500.00		
11480.060 Upgrade Motorized Retraction System for Existing Bleachers		LS	20,000.00		
11480.062 Plastic Telescoping Stands - Hussey Maxam 26 Motorized Bleachers		EA	110.00		
11480.065 Gym Wall Padding - 6' Ht	470.00	LF	100.00	47,000	
11480.080 Temporarily Relocate Existing Bleachers for Floor Replacement	1.00	LS	20,000.00	20,000	
11650.000 Stage Set Fastening Equipment - In Line set Allowance		E4	4 005 45		
11651.000 Lecture Hall Tables - 18" X 5'	000.00	EA	1,085.15	200,000	
11653.000 Auditorium Seating - Quattro By Hussey Seating	800.00	EA	250.00	200,000	
11654.000 Line Sets & Shell Allowance - Auditorium *** Total E10 - EQUIPMENT, GENERALLY	1.00	LS	175,000.00	175,000	
** Total E10 - EQUIPMENT				468,918 468,918	
				155,515	
E20 - FURNISHINGS					
E2010 - FIXED FURNISHINGS					
10000.020 Smart Boards - N/A per HMFH	0.040.00	EA	2,677.73	47.040	
10100.004 Marker Board W/ Alum Trim - Classrooms &	3,048.00	SF	15.63	47,648	
Labs	3 040 00	QF.	0.20	25 240	
10100.006 Tack Board W/O Trim	3,048.00	SF SE	8.32	25,348	
12500.010 Hunter Douglas Roller Shades (50% of glazing)	21,376.00	SF	11.00	235,136	
*** Total E2010 - FIXED FURNISHINGS				308,132	
** Total E20 - FURNISHINGS				308,132	
F10 - SPECIAL CONSTRUCTION					
F10 - SPECIAL CONSTRUCTION					
2100.022 50' Riding Ring w/ Fence (Roof in B10)	1.00	LS	10,000.00	10,000	
2220.330 Crushed Stone Under Slab - Kennel	20.00	CY	37.51	750	
2220.332 4" SOG - Kennel	400.00	SF	7.71	3,084	
2720.115 Chain Link Fence - Vinyl Coated 6' H - Kennel	120.00	LF	22.00	2,640	
(10' x 10')	0.00			_,,,,,	
2760.100 Tennis Court	6.00	EA	40,000.00	240,000	
2762.110 Baseball Field (Includes new drainage system)	1.00	EA	150,000.00	150,000	
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Job #: 15027

Project Size: 304,514 SF Detail - With Taxes and Insurance

Total   Code						
2762.115   Soozer Field Operingping Baseball Field   1.00   EA   200.000.00   200.000   (Includes new drainage system)   (Includes		Quantity	UM			
Includes new drainage system)	Code			UnitCost	Cost	
**Total FIG. SPECIAL CONSTRUCTION FOOL SELECTIVE BUILDING DEMOLITION   F2015 - SELECTIVE BUILDING DEMOLITION		1.00	EA	200,000.00	200,000	
**Total Fid.* SPECIAL CONSTRUCTION F20. SELECTIVE BUILDING ELEMENTS DEMOLITION F20. SELECTIVE BUILDING SELEMENTS DEMOLITION J022.130 Demo Fitnese Concept 2023.2310 Demo Concept 202						
F20 - SELECTIVE BUILDING ELEMENTS DEMOLITION   F2010 - BUILDING ELEMENTS DEMOLITION   F2010 - BUILDING ELEMENTS DEMOLITION						
P2010 - BUILDING ELEMENTS DEMOLITION   200,000 on   5					000,474	
2022-100   Mass Demolition - High School   270,000.00   SF   6.00   1,620.00						
2002-310   Demo Entrance Canopy   4,600.00   SF   0,68   3,129			CF.	6.00	1 620 000	
**Total F2010 - SULIDING ELEMENTS DEMO **Total F2010 - SITE PREPARATION G1020 - SITE DEMOLITION C2013240 Demo BIT Core Print - Large Area (For Animal any England Bit Core Print - Large Area (For Animal Bit Core Print - Lar		,				
G10 - SITE PREPARATION   G1020 - SITE DEMOLITION   G100000   SF   0.16   37,527   2013;240   Demo Bit Conc Pvmt - Large Area (For Animal   6,000.00   SF   0.16   987   Smr)   G1030 - G1030   G1030 - G1030   G1030   G1030 - G1030   G1030 - G1030 - G1030 - G1030   G1030 - G1030   G1030 - G1030		.,000.00	<b>.</b>	0.00		
Cartier   Cart	** Total F20 - SELECTIVE BUILDING DEMOLIT				1,623,129	
2013.240   Demo Bit Core Pmt - Large Area   230.852.00   SF   0.16   987	G10 - SITE PREPARATION					
2013.240   Deno Bit Conc Pvmt - Large Area (For Animal Barn)   2013.280   Deno Conc Walk   11,800.00   SF   0.63   7,414   1,400.00   SF   0.63   3,400.00   SF   0.63   3,400.00   SF   0.63   3,500.00   SF   0.63   SF   0.60   SF   0	G1020 - SITE DEMOLITION					
Barn		,			,	
2013.280 Demo Conc Walk  "Total G1020 - SITE DEMOLITION  G1030 - EARTHWORK 2110.290 Miss Ersion Control 1.00 LS 60.000.00 2210.300 Site Excession Control 210.300 Site Excession Control 2200.130 Site Excession Control 200.130 Site Excession Control 200.000 CY 12.13 242.550 2200.130 Site Fill From Borrow (Demolished Wing) - 20.000.00 CY 12.13 242.550 FFE to be lowered to further balance site 2200.905 Granular Fill (V) (Demolished Wing) 20.000.00 CY 10.00 20.000 2300.155 Dewatering 1.00 LS 40.000 40.000 2300.155 Dewatering 1.00 LS 40.000 40.000 2300.155 Dewatering 8.000 2500.050 Compact Road Subgrade 29.319.22 SY 0.23 6,790 2600.050 Compact Road Subgrade 29.319.22 SY 0.23 6,790 2600.050 Compact Road Subgrade 29.319.22 SY 0.23 6,790 2600.050 Compact Road Subgrade 29.319.22 SY 1.04 30.551 2600.075 Sibilization Fabric-Medium 33.717.11 SY 1.31 44.088 2600.130 Install Road Sase (L) 20.523.46 CY 3.96 81.300 2600.130 Install Road Sase (L) 20.523.46 CY 3.96 81.300 2600.130 Sase - Crusted Grave (M) 20.523.46 CY 1.00 326.375 2600.200 Added 2" for Heavy Duty Paving - Lot C 418.00 TONS 110.00 45,980 2600.200 Tevade Area* 54.15 St. 54.15 SY 1.00 ST. 54.000 2600.200 Tevade Area* 55.15511 SY 1.00 EACH 1.00 ST. 54.000 2600.201 "Paved Area* 55.15511 SY 1.00 EACH 1.00 ST. 54.000 2600.201 "Paved Area* 55.15511 SY 1.00 EACH 1.00 ST. 54.000 2600.201 "Paved Area* 55.15511 SY 1.00 EACH 1.00 ST. 54.000 2600.201 "Paved Area* 55.15511 SY 1.00 EACH 1.00 ST. 54.000 2600.201 "Paved Area* 55.15511 SY 1.00 EACH 1.00 ST. 54.000 2600.201 Steel Handrial - Sike Patining Wall 40.500 LF 2.68 1.000 2600.201 Steel Tarker 1.5 Sike Patining Wall 40.500 LF 2.277 2710.201 Landscaping - Courtyard 1.00 LS 150.000.00 150.000 2710.201 Landscaping - Courtyard 1.00 LS 150.000.00 150.000 2710.201 Landscaping - Courtyard 1.00 LS 150.000.00 150.000 2710.201 Steel Handrial - Sike Patining Wall 40.500 LF 6.221 25.155 1.000.000 Steel Handrial - Sike Patining Wall 40.500 LF 6.221 25.155 1.000.000 Steel Handrial - Sike Patining Wall 40.500 LF 6.221 25.155 1.000.000 Stee		6,000.00	SF	0.16	987	
#***Total G1020 - SITE DENOLITION  G1030 - EARTHWORK 2110.300   Site Excassion Control   1.00   LS   80,000.00   35,000   2210.300   Site Excassion Control   2,000.00   CY   12.13   242.550   2200.160   Site Excassion   20,000.00   CY   3.17   63,382   FFE to be lowered to further balance site   2200.905   Granular Fill (M) (Demolished Wing)   20,000.00   CY   3.17   63,382   FFE to be lowered to further balance site   2200.905   Granular Fill (M) (Demolished Wing)   20,000.00   CY   10,000   200,000   200,000   200,005   Granular Fill (M) (Demolished Wing)   20,000.00   CY   10,000   200,000   40,0		11 800 00	SE	0.63	7 414	
Carrier   Carr		11,000.00	Oi	0.00		
2110,290   Misc Ensisto Control   1.00	G1030 - EARTHWORK				·	
2110.306   Site AccessLaydown   1.00		1 00	LS	60 000 00	60,000	
2200.160   Site Fill From Borrow (Demolished Wing)   20,000.00   CY   3.17   63,382   FFE to be lowered to further balance site   2200.905   Granular Fill (M) (Demolished Wing)   20,000.00   CY   10.00   200,000						
FFE to be lowered to further balance site 2209.056		,			*	
2200.905   Granular Fill (M) (Demolished Wing)   20,000.00   CY   10.00   200.000   200.0155   Devalering   1.00   LS   40,000.00   40,0		20,000.00	CY	3.17	63,382	
2300.155 Dewatering ***Total G1030 - EARTHWORK **Total G10-SITE PREPARATION  G20 - SITE IMPROVEMENTS G2010 - SITE PAVING 2600.050 Compact Road Subgrade 29.319.22 SY 0.23 6,790 2600.050 Compact Road Subgrade 29.319.22 SY 1.04 30,551 2600.075 Stabilization Fabric-Medium 33.717.11 SY 1.31 44,068 2600.130 Install Road Base (L) 20,523.46 CY 3.396 81,300 2600.130 Install Road Base (L) 20,523.46 CY 16.00 328,375 2600.200 Added 2* for Heavy Duty Paving - Lot C 418.00 TONS 110.00 45,980 (33.891 SF) 500.00 Bituminous Concrete P3.96g (4*) 6.455.39 TON 95.00 613,262 2600.201 29319.22 1.00 EACH 2610.00 17.00 17.00 17.00 19.00 17.		20 000 00	CY	10.00	200 000	
*** Total G1030 - EARTHWORK  **Total G10 - SITE PREPARATION  G20 - SITE IMPROVEMENTS G2010 - SITE PAVING  2600.050 Compact Road Subgrade 29.319.22 SY 0.23 6,790 2600.050 Fine Grade Road Subgrade 29.319.22 SY 1.04 30.551 2600.075 Stabilization Fabric-Medium 33,717.11 SY 1.31 44,068 2600.130 Install Road Base (L) 20,523.46 CY 3.96 81,300 2600.130 Install Road Base (L) 20,523.46 CY 16.00 328,375 2600.200 Added 2" for Heavy Duty Paving - Lot C 418.00 TONS 110.00 45,980 (33,891 SF) 2600.200 Added 2" for Heavy Duty Paving - Lot C 418.00 TONS 110.00 45,980 (33,891 SF) 2600.201 Bituminous Concrete P3.96g (4") 6,455.39 TON 95.00 613,262 2600.201 "Paved Area" 51,915.11 SY 2610.002 Grading For Curbs 45,000 LF 2.68 12,060 2610.000 Concrete Curbs 6" X 18" 4,500.00 LF 2.68 12,060 2610.175 4" Concrete Sidewalk 11,000.00 SF 3.00 33,000 ***Total G2010 - SITE PAVING  G2050 - LANDSCAPING 2710.200 Landscaping 1.00 LS 150,000.00 150,000 2710.250 Landscaping 1.00 LS 150,000.00 150,000 2520.060 Steel Handrail - Site Retaining Wall 405.00 LF 62.21 25.195 10000.01 Fing Pole 1.00 LANDSCAPING ***Total G2050 - LANDSCAPING 3030 - SITE UTILLITIES G3010 - SITE UTILLITIES G3010 - SITE UTILLITIES G3010 - SITE UTILLITIES 2500.790 Storm Drainage Line 4,000.00 LF 44.08 176,320 2510.507 4" Dia PC Catch Basin 40.00 EA 3,469.33 138,773		,			*	
G20 - SITE IMPROVEMENTS   G2010 - SITE PAVING	*** Total G1030 - EARTHWORK			,	640,932	
G2010 - SITE PAVING   2600.050   Compact Road Subgrade   29,319.22   SY   0.23   6,790   2600.050   Fine Grade Road Subgrade   29,319.22   SY   1.04   30.551   2600.075   Stabilization Fabric-Medium   33,717.11   SY   1.31   44,068   2600.130   Install Road Base (L)   20,523.46   CY   3.96   81,300   328,375   2600.200   Added 2° for Heavy Duty Paving - Lot C   418.00   TONS   110.00   45,980   33,891 SF)   33,891 SF)   33,891 SF)   33,891 SF)   33,891 SF)   33,891 SF)   34,500.200   Bituminous Concrete P3,96g (4°)   6,455.39   TON   95.00   613,262   2600.201   23319.22   1.00   EACH   2600.201   23319.22   1.00   EACH   2600.201   23319.22   1.00   EACH   2600.200   Grading For Curbs   4,500.00   LF   2.68   12,060   2610.002   Grading For Curbs   4,500.00   LF   2.68   12,060   2610.002   Grading For Curbs   4,500.00   LF   2.68   12,060   2610.005   Concrete Curbs 6° X 18°   4,500.00   LF   2.68   12,000   33,0	** Total G10 - SITE PREPARATION				687,260	
2800.050 Compact Road Subgrade 29,319.22 SY 0.23 6,790 2600.060 Fine Grade Road Subgrade 29,319.22 SY 1.04 30,551 2600.075 Stabilization Fabric-Medium 33,717.11 SY 1.31 44,068 2600.130 Install Road Base (L) 20,523.46 CY 3.96 81,300 2600.136 Base - Crushed Gravel (M) 20,523.46 CY 16.00 328,375 2600.200 Added 2" for Heavy Duty Paving - Lot C 418.00 TONS 110.00 45,980 2600.200 Hold of 2" for Heavy Duty Paving - Lot C 418.00 TONS 110.00 45,980 2600.201 29319.22 1.00 EACH 2600.201 29319.22 1.00 EACH 2600.201 29319.22 1.00 EACH 2610.002 Grading For Curbs 4,500.00 LF 2610.002 Grading For Curbs 4,500.00 LF 2610.003 2610.175 4" Concrete Sidewalk 11,000.00 SF 3.00 33,000 33,000 2710.250 Landscaping 1.00 LS 150,000.00 150,000 2710.250 Landscaping 1.00 LS 150,000.00 150,000 5520.060 Steel Handrail - Site Retaining Wall 405.00 LF 62.21 25,195 10000.010 Fiag Pole 1.00 EA 2,277.73 2,278 17616 (2050 - LANDSCAPING 327,773 1576,859 130,776,859 130,776,859 130,777 4" Die PC Catch Basin 40.00 EA 3,469.33 138,773 158,775 158,775 158,775 158,775 159,775 150,000 150,00	G20 - SITE IMPROVEMENTS					
2600.060 Fine Grade Road Subgrade 29,319.22 SY 1.04 30,551 2600.075 Stabilization Fabric-Medium 33,717.11 SY 1.31 44,068 2600.130 Install Road Base (L) 20,523.46 CY 3.96 81,300 2600.136 Base - Crushed Gravel (M) 20,523.46 CY 16.00 328.375 2600.200 Added 2" for Heavy Duty Paving - Lot C 418.00 TONS 110.00 45,980 (33,891 SF)						
2600.075   Stabilization Fabric-Medium   33,717.11   SY   1.31   44,068   2600.130   Install Road Base (L)   20,523.46   CY   3.96   81,300   328,375   2600.200   Added 2" for Heavy Duty Paving - Lot C   418.00   TONS   110.00   45,980   (33,891 SF)   2600.200   Bituminous Concrete P3,96g (4")   6,455.39   TON   95.00   613,262   2600.201   29319.22   1.00   EACH   2600.201   29319.22   1.00   EACH   2610.002   Grading For Curbs   4,500.00   LF   2.68   12,060   2610.060   Concrete Curbs 6" X 18"   4,500.00   LF   12.00   54,000   2610.175   Concrete Sidwalk   11,000.00   SF   3.00   33,000   33,000   ***Total G2010 - SITE PAVING   1.00   LS   150,000.00   150,000   2710.250   Landscaping   Courtyard   1.00   LS   150,000.00   150,000   2710.250   Landscaping - Courtyard   1.00   LS   150,000.00   150,000   5520.060   Steel Handrail - Site Retaining Wall   405.00   LF   62.21   25,195   10000.010   Flag Pole   1.00   EA   2,277.73   2,278   327.473   **Total G205 - LANDSCAPING   327.473		,			,	
2600.130   Install Road Base (L)		,				
2600.136 Base - Crushed Gravel (M)		,				
(33,891 SF)  2600.200 Bituminous Concrete P3.96g (4") 6,455.39 TON 95.00 613,262  2600.201 29319.22 1.00 EACH 2600.201 "Paved Area" 58,195.11 SY 2610.002 Grading For Curbs 6" X 18" 4,500.00 LF 2.68 12,060 2610.060 Concrete Curbs 6" X 18" 4,500.00 LF 12.00 54,000 2610.175 4" Concrete Sidewalk 11,000.00 SF 3.00 33,000 *** Total G2010 - SITE PAVING 1,249,386  G2050 - LANDSCAPING 2710.200 Landscaping 1.00 LS 150,000.00 150,000 2710.250 Landscaping - Courtyard 1.00 LS 150,000.00 150,000 5520.060 Steel Handrail - Site Retaining Wall 405.00 LF 62.21 25,195 10000.010 Flag Pole 1.00 EA 2,277.73 2,278  *** Total G2050 - LANDSCAPING 327,473 ** Total G2050 - LANDSCAPING 1.00 LF 4.08 327,473 ** Total G2050 - SITE UTILITIES G3010 - SITE UTILITIES 52500.790 Storm Drainage Line 4,000.00 LF 44.08 176,320 2510.507 4" Dia PC Catch Basin 40.00 EA 3,469.33 138,773		,			*	
2600.200 Bituminous Concrete P3.96g (4") 6,455.39 TON 29319.22 1.00 EACH 2000.201 **Paved Area** 58,195.11 SY 2610.002 Grading For Curbs 4,500.00 LF 2.68 12,060 2610.060 Concrete Curbs 6" X 18" 4,500.00 LF 12.00 54,000 2610.175 4" Concrete Sidewalk 11,000.00 SF 3.00 33,000 **** Total G2010 - SITE PAVING 1.00 LS 150,000 150,000 2710.200 Landscaping 1.00 LS 150,000 150,000 2710.250 Landscaping Courtyard 1.00 LS 150,000.00 150,000 5520.060 Steel Handrail - Site Retaining Wall 405.00 LF 62.21 25,195 10000.010 Flag Pole 1.00 EA 2,277.73 2,278 *** Total G205 - LANDSCAPING 327,473 *** Total G205 - SITE IMPROVEMENTS 1,576,859 *** Total G205 - SITE UTILITIES G3010 - SITE UTILITIES 2500.790 Storm Drainage Line 4,000.00 LF 44.08 176,320 250.507 4" Dia PC Catch Basin 40.00 EA 3,469.33 138,773		418.00	TONS	110.00	45,980	
2600.201 29319.22 1.00 EACH 2600.210 **Paved Area** 58,195.11 SY 2610.002 Grading For Curbs 4,500.00 LF 2.68 12,060 2610.060 Concrete Curbs 6" X 18" 4,500.00 LF 12.00 54,000 2610.175 4" Concrete Sidewalk 11,000.00 SF 3.00 33,000 **** Total G2010 - SITE PAVING 1,249,386  G2050 - LANDSCAPING 2710.200 Landscaping 1.00 LS 150,000.00 150,000 2710.250 Landscaping - Courtyard 1.00 LS 150,000.00 150,000 5520.060 Steel Handrail - Site Retaining Wall 405.00 LF 62.21 25,195 10000.010 Flag Pole 1.00 EA 2,277.73 2,278  **** Total G205 - LANDSCAPING **** Total G205 - SITE IMPROVEMENTS G30 - SITE UTILITIES G3010 - SITE UTILITIES 2500.790 Storm Drainage Line 4,000.00 LF 44.08 176,320 2510.507 4' Dia PC Catch Basin 40.00 EA 3,469.33 138,773		6 455 30	TON	95.00	613 262	
2600.210 **Paved Area** 58,195.11 SY 2610.002 Grading For Curbs 4,500.00 LF 2.68 12,060 2610.060 Concrete Curbs 6" X 18" 4,500.00 LF 12.00 54,000 2610.175 4" Concrete Sidewalk 11,000.00 SF 3.00 33,000 *** Total G2010 - SITE PAVING 1,249,386		,		95.00	013,202	
2610.060 Concrete Curbs 6" X 18"			SY			
2610.175 4" Concrete Sidewalk 11,000.00 SF 3.00 33,000   **** Total G2010 - SITE PAVING	· · · · · · · · · · · · · · · · · · ·	,				
*** Total G2010 - SITE PAVING  G2050 - LANDSCAPING  2710.200 Landscaping 1.00 LS 150,000.00 2710.250 Landscaping - Courtyard 1.00 LS 150,000.00 5520.060 Steel Handrail - Site Retaining Wall 405.00 LF 62.21 25,195 10000.010 Flag Pole 1.00 EA 2,277.73 2,278  *** Total G2050 - LANDSCAPING 327,473  *** Total G20 - SITE IMPROVEMENTS 1,576,859  G30 - SITE UTILITIES G3010 - SITE UTILITIES 2500.790 Storm Drainage Line 4,000.00 LF 44.08 176,320 2510.507 4' Dia PC Catch Basin 40.00 EA 3,469.33 138,773						
G2050 - LANDSCAPING         2710.200 Landscaping       1.00       LS       150,000.00       150,000         2710.250 Landscaping - Courtyard       1.00       LS       150,000.00       150,000         5520.060 Steel Handrail - Site Retaining Wall       405.00       LF       62.21       25,195         10000.010 Flag Pole       1.00       EA       2,277.73       2,278         *** Total G2050 - LANDSCAPING         *** Total G20 - SITE IMPROVEMENTS       327,473         G301 - SITE UTILITIES         G3010 - SITE UTILITIES       4,000.00       LF       44.08       176,320         2500.790 Storm Drainage Line       4,000.00       LF       44.08       176,320         2510.507 4' Dia PC Catch Basin       40.00       EA       3,469.33       138,773		11,000.00	OI.	3.00	*	
2710.200 Landscaping 1.00 LS 150,000.00 150,000 2710.250 Landscaping - Courtyard 1.00 LS 150,000.00 150,000 5520.060 Steel Handrail - Site Retaining Wall 405.00 LF 62.21 25,195 10000.010 Flag Pole 1.00 EA 2,277.73 2,278 *** Total G2050 - LANDSCAPING 327,473 ** Total G20 - SITE UTILITIES G3010 - SITE UTILITIES 2500.790 Storm Drainage Line 4,000.00 LF 44.08 176,320 2510.507 4' Dia PC Catch Basin 40.00 EA 3,469.33 138,773	G2050 LANDSCADING				, .,	
2710.250 Landscaping - Courtyard 1.00 LS 150,000.00 150,000 5520.060 Steel Handrail - Site Retaining Wall 405.00 LF 62.21 25,195 10000.010 Flag Pole 1.00 EA 2,277.73 2,278 *** Total G2050 - LANDSCAPING 327,473 *** Total G20 - SITE IMPROVEMENTS 327,473 1,576,859 G30 - SITE UTILITIES G3010 - SITE UTILITIES 2500.790 Storm Drainage Line 4,000.00 LF 44.08 176,320 2510.507 4' Dia PC Catch Basin 40.00 EA 3,469.33 138,773		1 00	LS	150 000 00	150 000	
10000.010 Flag Pole 1.00 EA 2,277.73 2,278 *** Total G2050 - LANDSCAPING *** Total G20 - SITE IMPROVEMENTS 327,473  *** Total G20 - SITE UTILITIES  G3010 - SITE UTILITIES  2500.790 Storm Drainage Line 4,000.00 LF 44.08 176,320 2510.507 4' Dia PC Catch Basin 40.00 EA 3,469.33 138,773				· · · · · · · · · · · · · · · · · · ·	*	
*** Total G2050 - LANDSCAPING  ** Total G20 - SITE IMPROVEMENTS  G30 - SITE UTILITIES  G3010 - SITE UTILITIES  2500.790 Storm Drainage Line						
** Total G20 - SITE IMPROVEMENTS  G30 - SITE UTILITIES  G3010 - SITE UTILITIES  2500.790 Storm Drainage Line 4,000.00 LF 44.08 176,320 2510.507 4' Dia PC Catch Basin 40.00 EA 3,469.33 138,773	10000.010 Flag Pole	1.00	EA	2,277.73		
G30 - SITE UTILITIES G3010 - SITE UTILITIES 2500.790 Storm Drainage Line 4,000.00 LF 44.08 176,320 2510.507 4' Dia PC Catch Basin 40.00 EA 3,469.33 138,773						
G3010 - SITE UTILITIES         2500.790 Storm Drainage Line       4,000.00       LF       44.08       176,320         2510.507 4' Dia PC Catch Basin       40.00       EA       3,469.33       138,773					1,070,000	
2500.790 Storm Drainage Line       4,000.00       LF       44.08       176,320         2510.507 4' Dia PC Catch Basin       40.00       EA       3,469.33       138,773						
2510.507 4' Dia PC Catch Basin 40.00 EA 3,469.33 138,773		4 000 00	IF	<i>44</i> N2	176 320	
	<del>-</del>	,				



Job #: 15027

Project Size: 304,514 SF Detail - With Taxes and Insurance

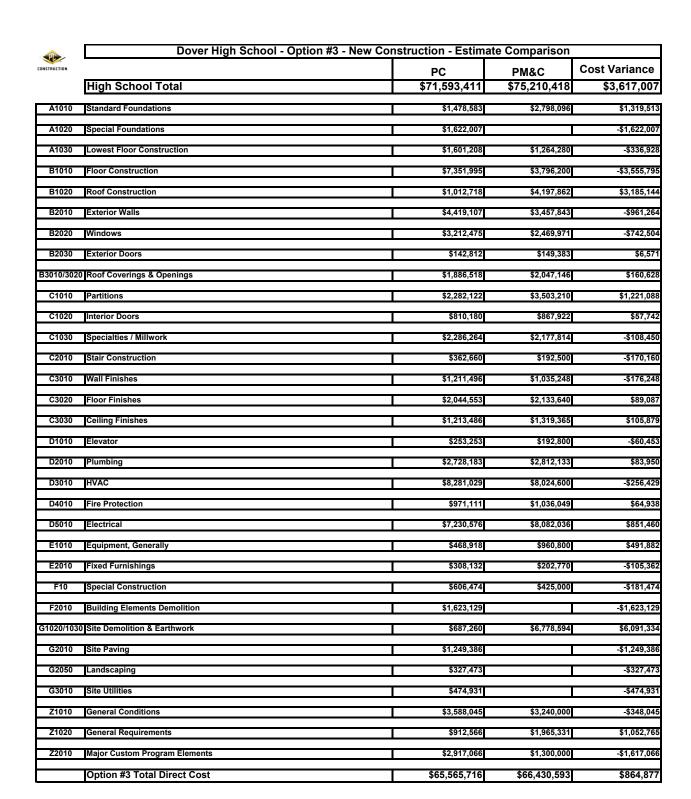
Item	Description	Quantity	UM	Total	Total	
Code				UnitCost	Cost	
2540 114	Canitary Cower	300.00	LF	52.09	15,624	
	Sanitary Sewer			52.08		
	Prim/Sec Electrical/Telcom Trenching	300.00	LF	32.08	9,624	
	Natural Gas Trenching	350.00	LF	32.08	11,228	
2540.128	Alter Underdrain at existing ball field for new	1.00	LS	10,000.00	10,000	
	addition					
2540.130	Alter Underdrain at existing lacrosse field at	1.00	LS	10,000.00	10,000	
	north side of building due to const access					
	Elec Trench-Direct Burial (Site Lighting)	5,100.00	LF	8.04	41,004	
2580.120	Elec Trench-Duct Bank (Secondary/Primary	140.00	LF	12.32	1,725	
	Under Roads)					
	Elec Ductbank Forms	560.00	SF	4.42	2,473	
	Elec Ductbank Concrete	48.53	CY	121.08	5,876	
2580.300	Grease Interceptor, Steel, 50 GPM, 100 LB Fat	1.00	EA	9,962.60	9,963	
	Capacity					
2580.302	Grease Interceptor, Steel, 250 GPM, 500 LB	1.00	EA	26,096.32	26,096	
	Fat Capacity					
*** Total G3010	O - SITE UTILITIES				474,931	
** Total G30 - 9	SITE UTILITIES				474,931	
<b>-</b> 40 0-					·	
Z10 - GE						
Z1010 -	GENERAL CONDITIONS					
0080.100	***DESIGN & ENGINEERING FEES BY CITY					
	OF DOVER***					
0100.000	Mobilize / Demobilize	1.00	LS	28,000.00	28,000	
0100.020	Office Supplies	155.00	WK	275.00	42,625	
	Office Furniture / Systems	1.00	LS	48,000.00	48,000	
	Engineer's Furniture / Equipment - N/A		LS	,	12,222	
	Engineer's Computer / Software - N/A		LS			
	Project Kiosk 30" - Purchase	4.00	EA	5,000.00	20,000	
	Janitorial Services	155.00	WK	150.00	23,250	
	Temporary Wiring	1.00	LS	3,000.00	3,000	
0100.004	Electrical Energy Costs	35.00	MO	350.00	12,250	
		35.00 35.00	MO	200.00		
	Water Usage Costs				7,000	
	Telephone / Communication	35.00	MO	1,000.00	35,000	
	Sanitary / Facilities	35.00	MO	1,500.00	52,500	
	Security / Watchman		WK			
	Photographs	4.00	MO	45,000,00	45.000	
	Documents & Reproductions	1.00	LS	15,000.00	15,000	
	Estimating - GMP	1.00	LS	50,000.00	50,000	
	Officer in Charge		MW	7,000.00		
	Construction Executive	15.00	MW	5,400.00	81,000	
0120.008	Senior Project Manager	56.00	MW	4,720.00	264,320	
0120.010	Project Manager	128.00	MW	3,800.00	486,400	
0120.018	Senior Project Engineer		MW	2,880.00		
0120.020	Project Engineer	155.00	MW	2,400.00	372,000	
0120.022	Office Engineer	115.00	MW	1,920.00	220,800	
0120.024	Senior Superintendent	137.00	MW	4,720.00	646,640	
0120.025	Project Superintendent	149.00	MW	3,720.00	554,280	
0120.034	Construction Coordination - SCP	37.00	MW	2,400.00	88,800	
	Scheduling Engineer		MW	2,280.00	,	
	Safety Manager		MW	3,720.00		
	Safety Engineer (2 Days/Week)	62.00	MW	2,280.00	141,360	
	Administration	132.00	MW	1,720.00	227,040	
	Living Allowance - Management	310.00	MWK	300.00	93,000	
	Living Allowance - Foremen	310.00	MWK	125.00	93,000	
	Travel and Expenses	35.00	MO	600.00	21,000	
	Scheduling	1.00	WK	2,280.00	2,280	
	Permit's & Fee's	1.00	LS	2,200.00	2,200	
	Building Permit		LS			
0140.300	Design (Means & Methods)		LS			



Job #: 15027

Project Size: 304,514 SF Detail - With Taxes and Insurance

Item Description Code	Quantity	UM	Total UnitCost	Total Cost	
Code			UnitCost	Cost	
0140.800 Professional Services		LS			
0150.200 Equipment Trucking		WK			
0150.250 Off - Site Parking		WK			
0150.500 Personnel Elevator		МО			
0150.520 Field Office	35.00	TM	1,200.00	42,000	
0150.540 Engineer / Architect Office		TM	400.00	,	
0150.560 Storage Trailers (2 Trailers)	70.00	TM	150.00	10.500	
0160.300 Sub Bonds (Include w/ Subs)		LS		,	
0180.010 Gross Receipts Tax		LS			
0180.020 Sales Tax		LS			
*** Total Z1010 - GENERAL CONDITIONS				3,588,045	
74000 05115041 050111051451170				1,111,11	
Z1020 - GENERAL REQUIREMENTS					
0200.010 Materials Testing		LS			
0200.040 Snow Removal	1.00	LS	40,000.00	40,000	
0200.110 Field Engineering	4.00	WK	5,000.00	20,000	
0200.140 Temporary GWB Partitions	2,000.00	SF	7.80	15,600	
0200.160 ICRA / ILSM - N/A		LS			
0200.180 Scaffolding - In COW		LS			
0200.200 OSHA / First Aid	155.00	WK	771.89	119,643	
0200.300 Material Handling	155.00	WK	940.00	145,700	
0200.310 Cranes - In COW		CM	,		
0200.320 Progress Cleanup (Labor & Dumpster)	155.00	WK	707.04	109,591	
0200.360 Final Cleanup	304,514.00	SF	0.45	137,031	
0200.400 Temporary Heat	1.00	LS	175,000.00	175,000	
0200.410 Temporary Enclosure	1.00	LS	150,000.00	150,000	
0200.970 Support Equipment		LS			
*** Total Z1020 - GENERAL REQUIREMENTS				912,566	
** Total Z10 - GENERAL				4,500,611	
Z20 - MAJOR CUSTOM PROGRAM ELEM	MENTS				
Z2010 - MAJOR CUSTOM PROGRAM E					
0060.002 Precon Services - N/A (Included under		LS	96,000.00		
separate contract)		20	30,000.00		
2032.500 Asbestos Abatement Contract	1.00	LS	1,300,000.00	1,300,000	
2032.505 Asbestos Abatement - 5% Increase per year	1.00	LS	359.166.00	359,166	
2762.100 Replace existing football field with turf	1.00	LS	750,000.00	750,000	
11400.001 Kitchen Equipment	3,386.00	SF	150.00	507,900	
*** Total Z2010 - MAJOR CUSTOM PROGRAM	0,000.00	Ç.	100.00	2,917,066	
** Total Z20 - MAJOR CUSTOM PROGRAM EL				2,917,066	
* Total Option 3 - All New Construction				65,565,715	
Total Gross Cost				65,565,715	
10141 01000 0001		'	ı	00,000,110	



Dover High School - Option #3 - New Construction - Estimate Comparison							
Labor and Material Escalation	\$0	\$0	\$0				
Builders Risk Insurance	\$48,893		-\$48,893				
Liability Insurace	\$536,948	\$543,742	\$6,794				
Construction Manager's Contingency (PC @ 5%)	\$3,278,286	\$6,251,099	\$2,972,813				
P & P Bond	\$417,387	\$347,208	-\$70,179				
CM Fee (2.5%)	\$1,746,181	\$1,637,776	-\$108,405				
Option #3 Total Indirect Cost	\$6,027,695	\$8,779,825	\$2,752,130				
 Option #3 Total Gross Cost	\$71.593.411	\$75.210.418	\$3.617.007				



### SCOPE OF WORK CLARIFICATIONS

### A10 - FOUNDATIONS

### A1010.00 - Standard Foundations

- Includes:
  - A.  $8'' \times 16''$  continuous concrete footing with an  $8'' \times 5'$ -0" high frost wall at barn addition.
  - B.  $1'-0'' \times 2'-0''$  continuous concrete footings,  $1'-0'' \times 5'-0''$  high frost walls with  $1'-0'' \times 3'-0''$  grade beams at CTC building.
  - C. 1'-0" x 3'-0" grade beams in the 1967 wing where new micro piles are to be installed.
  - D.  $18'' \times 4'-0''$  concrete piers with  $2'-0'' \times 2'-0'' \times 1'-0''$  footings at new riding ring.
  - E. Concrete to be 3,000 PSI.
  - F. Pumping as necessary for all cast-in-place concrete work.
  - G. Excavation for the foundation work mentioned above includes backfilling with borrowed crushed stone on inner side of frost walls and on-site material for outer side of wall.
  - H. Damp-proofing and 2" rigid insulation at all frost walls.
- Excludes:
  - A. Foundation work at existing high school.

### A1020.00 - Special Foundations

- Includes:
  - A. H-piles at the new CTC building.
  - B. Drilled micro piles at the existing 1967 wing to support 12 existing columns that are to be structurally reinforced along with shoring of the structure above.

### A1030.00 - Lowest Floor Construction

- Includes:
  - A. 5" slab-on-grade, 2" rigid insulation, 15 mil stego wrap and 8" subbase at barn addition.
  - B. 10" slab-on-grade, 15 mil stego wrap and 8" subbase at new CTC building.
  - C. A 10" slab-on-grade in the 1967 wing at location of micro piles.
  - D. Existing auditorium floor slab to be modified for ADA compliance.

### **B10 - SUPERSTRUCTURE**

### B1010.00 - Floor Construction

- Includes:
  - A. 1967 wing to receive steel structure reinforcing at 12 existing columns for 3 stories.
  - B. Existing structural steel members and roof deck to receive spray fireproofing.
- Excludes:
  - A. Intumescent paint.



B. Fireproofing at CTC building, barn and riding ring.

### B1020.00 - Roof Construction

- Includes:
  - A. Steel joists with 1-1/2" metal deck at the CTC building.
  - B. The barn addition roof structure is to include 6:12 pitch wood trusses with 5/8" OSB roof sheathing.
  - C. A wood-framed pavilion canopy at the riding ring.
  - D. One new entrance canopy at the high school.
- Excludes:
  - A. Reconfiguration of existing high school roof structure.

### B20 – EXTERIOR CLOSURE

### B2010.00 - Exterior Walls

- Includes:
  - A. 10" CMU, metal stud backup, air infiltration barrier, 3" spray foam and a brick veneer at new CTC building. The inner side of partition is abuse-resistant drywall.
  - B. Wood stud framing with T&G red cedar siding at barn addition.
  - C. Existing high school building exterior partitions are to remain and will receive 3" spray foam insulation.
  - D. 15,000 SF of repointing/repairing of existing masonry veneer.
  - E. 5/8" taped drywall and poly vapor barrier to be applied to existing exterior wall framing.

### B2020.00 - Windows

- Includes:
  - A. Replace curtain wall and punched windows at high school.
  - B. 4'-0" x 8'-0" storefront windows at the CTC building.
  - C. Aluminum/vinyl clad windows at the barn addition.

### B2030.00 – Exterior Doors

- Includes:
  - A. Wood sliding barn doors and 3070 HM doors at barn addition.
  - B. Coiling overhead doors and 3070 HM doors at CTC building.
  - C. New exterior doors at existing high school along with coiling overhead doors at loading dock and woodshop area.

### **B30 – R00FING**

### B3010.00 – Roof Coverings



#### Includes:

- A. Asphalt shingle roof with 12" batt insulation at barn addition.
- B. Thermoplastic membrane roof with break metal coping at CTC building.
- C. Existing high school to receive a new thermoplastic membrane roof with break metal coping.

### C10 - INTERIOR CONSTRUCTION

#### C1010.00 – Partitions

- Includes:
  - A. Due to the overall layout of the high school corridors and classrooms being unchanged, 50% of existing partitions are to be replaced with new metal stud interior partition framing with 5/8" gypsum wallboard.
  - B. Fiberglass sound attenuation batt and acoustical caulking at interior partitions.
  - C. Level 4 drywall finish at visible surfaces; level 1 finish at non-visible surfaces.
  - D. Gypsum-based tile backer at wall surfaces to receive tile finish.
  - E. Fire & smoke-rated partitions as required.

### Excludes:

A. Partitions at future classroom space.

### C1020.00 - Doors

- Includes:
  - A. Replace existing interior doors.
  - B. Hollow metal doors and frames at storage and mechanical areas.
  - C. Solid-core wood veneer doors with hollow metal frames at all other locations.
  - D. Interior borrowed sidelights at classrooms and laboratories.
  - E. Panic hardware as required.

### C1030.00 – Specialties/Millwork

- Includes:
  - A. 6'-0" full-height cabinets, 8'-0" of base cabinets with solid surface top and 8'-0" of wall cabinets at classrooms.
  - B. Solid surface cabinets with epoxy resin counter tops at science labs.
  - C. Wood cubbies at mailroom.
  - D. Library front desk.
  - E. Admin/Guidance front desks.
  - F. Wall-mounted solid surface countertops at all restrooms.
  - G. Locker room benches.
  - H. FRP wall panels at kitchen and janitorial areas.
  - I. Phenolic toilet compartments and urinal screens.
  - J. Toilet room grab bars and mirrors.



- K. Toilet paper dispensers, surface-mount waste receptacle, soap dispenser and hand dryers at restrooms.
- L. Fire extinguishers and cabinets.
- M. Glass shower door and folding shower seat.
- N. An allowance of \$40,000 for trophy and display cases.
- O. Custodial and student lockers to be painted metal.

### <u>C20 – STAIRCASES</u>

### C2010.00 – Stair Construction

- Includes:
  - A. Existing stairs to receive new wall and hand railings to meet code.
  - B. Existing stair framing to remain as is.

### C30 – INTERIOR FINISHES

### C3010.00 - Wall Finishes

- Includes:
  - A. Ceramic tile wainscoting to 5'-0" AFF in toilet rooms.
  - B. Ceramic tile wainscoting to 5'-0" AFF at corridors.
  - C. Ceramic tile wainscoting to 5'-0" AFF at stairwells.
  - D. Wood wall paneling in auditorium.
  - E. Painted gypsum board in remainder of areas (except future classroom space).

### C3020.00 - Floor Finishes

- Includes:
  - A. Carpet tile with rubber base at administrative offices.
  - B. Wood floor with wood base at gym and stage.
  - C. Linoleum and rubber base at classrooms and corridors.
  - D. Quarry tile and base at main kitchen and CTC kitchen.
  - E. Carpeted aisles and sealed concrete at auditorium.
  - F. Carpet tile walk-off mats and rubber base at vestibules.
  - G. Porcelain tile and base at CTC restaurant.
  - H. Ceramic mosaic tile with tile base at toilet rooms and locker rooms.
  - I. Sealed concrete and rubber base at CTC Automotive & Building Technology classrooms, mechanical rooms and custodial rooms.
  - J. Rubber-covered treads, risers and landings at metal pan stairs.

### C3030.00 – Ceiling Finishes

Includes:



- A. Acoustical ceiling tile and grid at classrooms, corridors and administrative offices.
- B. Acoustical ceiling tile and grid appropriate for food production at kitchens.
- C. 2" Tectum panels at gym (included at half of total square footage).
- D. Wood acoustical clouds suspended at auditorium.
- E. Suspended gypsum ceilings, painted at toilet and locker rooms.
- F. Painted finish at exposed structure stage, CTC Automotive & Building Technology.

#### Excludes:

- A. Ceilings/finish in mechanical, electrical and custodial rooms.
- B. Ceilings/finish in future classroom space.

### D10 - CONVEYING SYSTEMS

#### **D1010.00** – **Elevators**

- Includes:
  - A. Installation of new concrete elevator pit within existing structure.
  - B. New two-story hydraulic elevator.
  - C. Existing elevators are to remain as is.

### **D20 – PLUMBING SYSTEMS**

### **C2010.00** – Plumbing

- Includes:
  - A. New water service (4") with backflow protection to Animal Science and Building Technology.
  - B. Domestic hot and cold water distributed to all plumbing fixtures.
  - C. New storm drain piping and roof drains on new roofs only.
  - D. Air compressor for Technology building.
  - E. Gas distribution piping.
  - F. Rough-in for 10 salon sinks.
  - G. 38 small laboratory sinks.
  - H. 50 quick-connect compressed air outlets.
  - I. Plumbing rough-in and connections.
  - J. Cleaning, testing and adjusting of plumbing systems.
  - K. Seismic restraints at piping to meet codes.
  - L. Firestopping at pipe penetrations.

#### Excludes:

- A. Specialized plumbing equipment.
- B. Bathroom lavatories (assumed to be solid surface integral sinks carried in Division 6).
- C. New roof drains on renovation work.
- D. Kitchen equipment and/or fixtures.



- E. Salon fixtures.
- F. New underground sanitary waste in the existing high school.
- G. New water service to existing high school.
- H. New natural gas service, meter or regulator.

### D30 - HVAC SYSTEMS

### D3010.00 - HVAC

- Includes:
  - A. (1) 100-ton, air-cooled chiller.
  - B. (33) Rooftop HVAC units.
  - C. (2) Indoor AHUs.
  - D. 100% make-up air units and kitchen hood exhaust fans for Kitchen/Culinary.
  - E. (8) Ductless mini-splits.
  - F. (2) Kitchen exhaust fans.
  - G. (4) 3000 MBH condensing NG boilers.
  - H. (6) 330 MBH NG boilers.
  - I. Hot and chilled water pumps.
  - J. (2) Fume hoods with exhaust fans.
  - K. (2) Vehicle exhaust systems.
  - L. (2) Dust collection systems.
  - M. (1) Paint booth exhaust system.
  - N. Final cleaning of ductwork systems.
  - 0. Direct digital controls (DDC) to monitor building temperature.
  - P. Testing, adjusting and balancing with documentation of all HVAC systems.
  - Q. Seismic restraints at piping and ductwork systems to meet codes.
  - R. Firestopping at pipe and ductwork penetrations.
- Excludes:
  - A. RTUs for modular classrooms (assume they come equipped).
  - B. Specialty kitchen equipment.
  - C. Kitchen exhaust hood(s).

### D40 - FIRE PROTECTION SYSTEMS

### D4010.00 - Fire Protection

- Includes:
  - A. New water service entrances (6") for Animal Science building and new Technical Center (Building Technology, Auto Collision and Auto Technology), including backflow prevention devices.



- B. Existing main water service entrance to be reused for main high school. Existing backflow preventer to be reused.
- C. Main piping is Schedule 40 grooved, steel pipe. Branch piping is Schedule 40 threaded, steel pipe.
- D. Dry pendant sprinkler heads at small exterior canopies, extended from the wet-based distribution system.
- E. Fire Department connections for new buildings (2). Existing FDC(s) at main high school to remain.
- F. Temporary water service to modular classrooms to connect to pre-plumbed sprinkler distribution system.
- G. Dry sprinkler system to 50-foot diameter horse-riding ring.
- H. Seismic restraints at piping to meet codes.
- I. Firestopping at pipe penetrations.

#### Excludes:

- A. Fire pump(s)
- B. Ansul or specialty systems for protection of kitchen equipment.
- C. Sprinkler piping/heads for modular classrooms(s).

### D50 - ELECTRICAL

### D5010.00 - Electrical

- Includes:
  - A. An allowance for electrical primary conductors and transformers.
  - B. 800 linear feet for primary length.
  - C. 100 linear feet for secondary service, 4'-0" x 2'-0" duct bank w/(4) sets of #600 MCM conductors in each.
  - D. Temporary electrical service to modular classrooms assume a single connection point.
  - E. Security system.
  - F. Site lighting pole fixtures for every 7500 sf of new parking lot/roadways.
  - G. Interior lighting as described.
  - H. Lighting controls.
  - I. (2) 20kw UPS systems.
  - J. A lighting/sound/dimmer system allowance for Auditorium lighting.
  - K. A sound system for the cafeteria and gymnasium.
  - L. Tel/com system with cabling, devices and equipment.
  - M. Fire alarm system.
  - N. 300 kW NG generator with a sound-attenuated exterior enclosure.
  - 0. Security card reader system.
  - P. Sealing and firestopping.
  - Q. Lightning protection.
  - R. Master clock/PA system.



- Excludes:
  - A. Nurse call system.
  - B. Lighting fixtures, power receptacles for modular classrooms.

### E10 - EQUIPMENT

### E1010.00 - Equipment

- Includes:
  - A. Loading dock bumpers and seals.
  - B. Newer gym bleachers on one side of gym are to be salvaged and the other side is to receive new bleachers.
  - C. 6'-0" high wall padding in gym.
  - D. Auditorium seating is to be replaced with 800 new seats.
  - E. An allowance of \$175,000 for new line sets & shell in the auditorium.

### E20 - FURNISHINGS

### E2010.00 - Fixed Furnishings

- Includes:
  - A. Marker boards and tack boards as noted in estimate.
  - B. Manual roller shades at 50% of glass openings.

### F10 - SPECIAL CONSTRUCTION

### F1010.00 – Special Construction

- Includes:
  - A. Round 50'-0" riding ring with a wood canopy and asphalt shingles.
  - B. (4) 10'-0"x 10'-0" kennels with chain link fence over a 4" slab-on-grade.

### F20 - SELECTIVE BUILDING DEMOLITION

### F2010.00 – Building Elements Demolition

- Includes:
  - A. Demolishing existing grade beams, pile caps and slab-on-grade to support micro pile scope of work.
  - B. Stripping existing building of finishes, non-load bearing partitions and MEP systems.
  - C. Removing roof membrane and curtain wall.



### <u>G10 – SITE PREPARATION</u>

### G1020.00- Site Demolition

- Includes:
  - A. Removing all existing asphalt paving and walkways.

### G1030.00- Earthwork

- Includes:
  - A. Clearing and grubbing.
  - B. Stockpiling of topsoil for reuse on site as required, if suitable.
  - C. Removing excess topsoil and/or reuse on site as site fill material.
  - D. Stockpiling and seeding of excess topsoil on site for the Owner's use.
  - E. Installation, maintenance and removal of erosion control.
  - F. Installation, maintenance and removal of temporary access road(s).
  - G. Inlet protection.

### G2010.00- Site Paving

- Includes:
  - A. New asphalt paving at parking lots and road along Alumni Drive.
  - B. Heavy-duty paving at Lot C.
  - C. Pavement striping within interior and exterior parking areas.
  - D. Roadway and parking signage as described in the estimate.
  - E. Concrete walkways consisting of 4" cast-in-place concrete over 8" of crushed gravel base on a compacted subgrade.
  - F. Temporary asphalt walkways.

### G2050.00- Landscaping

- Includes:
  - A. \$120,000 landscaping allowance.

### G30 – SITE UTILITIES

### G3010.00- Site Utilities

- Includes:
  - A. Water, sanitary and secondary power utilities to service CTC building and modular classrooms.
  - B. Minor storm catch basin modifications for new site paving.
  - C. Concrete duct bank at secondary electrical trenching.
  - D. New site lighting throughout.
  - E. Two grease interceptors to serve high school kitchen and CTC kitchen.
  - F. Existing utilities to high school are assumed to be sized adequately and to remain as is.



### Z10 - GENERAL

### Z1010.00- General Conditions

This estimate is based on a 76-month construction schedule.

- A. Builder's Risk insurance is included; loss of use is excluded.
- B. A Performance and Payment Bond has been included.
- C. Consumption costs for steam, electrical energy and water are to be provided by Owner.
- D. Our Schematic Design, Design Development and Construction Document Estimates include a Construction Manager estimating contingency. As the design progresses and the project approaches construction, the contingency will be reduced accordingly.
- E. The following items are excluded:
  - a. Sales tax.
  - b. Third-party commissioning for MEP systems, automation controls, building and building envelope.
  - c. Owner's Protective insurance.
  - d. Impact fees at the Federal, State or local level.
  - e. All permits apart from trade-specific permits.
  - f. Design fees.
  - g. All fixtures, furniture and equipment.
  - h. Owner's contingency.
  - i. Design contingency.
  - j. Residential appliances.



### SCOPE OF WORK CLARIFICATIONS

### A10 - FOUNDATIONS

### A1010.00 - Standard Foundations

- Includes:
  - A.  $1'-0'' \times 5'-0''$  Continuous concrete footing with  $1'-0'' \times 13'-0''$  high site retaining wall.
  - B.  $1'-0'' \times 3'-0''$  Continuous concrete footing with  $1'-0'' \times 5'-0''$  high stepped frost wall at addition.
  - C.  $3'-0'' \times 3'-0'' \times 1'-0''$  Isolated footings on a 30'-0" grid spacing at addition.
  - D. 1'-0" x 3'-0" Grade beams at H piles.
  - E. 8" x 16" Continuous concrete footing with an 8" x 5'-0" high frost wall at barn addition.
  - B.  $18'' \times 4'-0''$  Concrete piers with  $2'-0'' \times 2'-0'' \times 1'-0''$  footings at new riding ring.
  - C. Installing two new elevator pits in the existing high school.
  - D. Concrete to be 3,000 PSI.
  - E. Pumping as necessary for all cast-in-place concrete work.
  - F. Excavation for the foundation work mentioned above includes backfilling with borrowed crushed stone on inner side of frost walls and on-site material for outer side of wall.
  - G. Damp-proofing and 2" rigid insulation at all frost walls.

### A1020.00 - Special Foundations

- Includes:
  - A. H-piles at the location adjacent to the gym/auditorium under the new addition.
  - B. Aggregate piers located at the northeast corner of the addition.

### A1030.00 - Lowest Floor Construction

- Includes:
  - A. 5" slab-on-grade, 2" rigid insulation, 15 mil stego wrap and 8" subbase at barn addition.
  - B. A 10" slab on grade at areas receiving H piles or aggregate piers; all other areas are 4".
  - C. Modifying existing auditorium floor slab for ADA compliance.

### **B10 - SUPERSTRUCTURE**

#### B1010.00 - Floor Construction

- Includes:
  - A. 5-1/2" Concrete slab over 2" painted steel deck at new addition.
  - B. Structural steel tonnage calculated based on 12 lbs/sf.
  - C. Spray fireproofing for all new structural steel members and roof deck.
- Excludes:
  - A. Fireproofing of the existing structure.



- B. Intumescent paint.
  - C. Fireproofing at the barn and riding ring.

## B1020.00 - Roof Construction

- Includes:
  - A. Steel joists with 1-1/2" metal deck at the CTC garage areas, gym and auditorium.
  - B. The barn addition roof structure is to include 6:12 pitch wood trusses with 5/8" OSB roof sheathing.
  - C. Wood-framed pavilion canopy at riding ring.
  - D. Two new entrance canopies at the high school.
  - E. Pitched, steel roof framing at new addition.
- Excludes:
  - A. Modifications to existing high school roof.

#### <u>B20 – EXTERIOR CLOSURE</u>

#### B2010.00 - Exterior Walls

- Includes:
  - A. Wood stud framing with T&G red cedar siding at barn addition.
  - B. Existing high school building exterior partitions are to remain and will receive 3" spray foam insulation.
  - C. 5,000 sf of repointing/repairing of existing masonry veneer.
  - D. 5/8" Taped drywall and poly vapor barrier to be applied to existing exterior wall framing.
  - E. Addition and existing building exterior walls to receive 6" light-gauge steel studs with 5/8" densglass, 3" spray foam, fluid-applied air barrier and 5/8" drywall.
  - F. Addition to receive brick veneer at 70% of envelope; precast elements have not been included.

#### B2020.00 - Windows

- Includes:
  - A. Replacing curtain wall and punched windows at high school.
  - B. Aluminum/vinyl clad windows at the barn addition.
  - C. 30% of addition exterior wall will be curtain wall.

#### B2030.00 – Exterior Doors

- Includes:
  - A. Wood sliding barn doors and 3070 HM doors at barn addition.
  - B. Coiling overhead doors and 3070 HM doors at CTC areas.
  - C. All new exterior doors at existing high school along with coiling overhead doors at loading dock and woodshop area.



D. New addition to receive hollow metal door/ frames at storage and mechanical areas. Main entry to be storefront.

## <u>B30 – R00FING</u>

### B3010.00 – Roof Coverings

- Includes:
  - A. Asphalt shingle roof with 12" batt insulation at barn addition.
  - B. Thermoplastic membrane roof with break metal coping at new additions.
  - C. Existing high school to remain as is.
  - D. Two entrance canopies.

#### C10 – INTERIOR CONSTRUCTION

#### C1010.00 - Partitions

- Includes:
  - A. Due to the overall layout of the high school corridors, gym and auditorium being unchanged, 50% of existing partitions are to be replaced with new metal stud interior partition framing with 5/8" gypsum wallboard.
  - B. Fiberglass sound attenuation batt and acoustical caulking at interior partitions.
  - C. Level 4 drywall finish at visible surfaces; level 1 finish at non-visible surfaces.
  - D. Gypsum-based tile backer at wall surfaces to receive tile finish.
  - E. Fire & smoke rated partitions as required.
- Excludes:
  - A. Partitions at future classroom space.

#### C1020.00 - Doors

- Includes:
  - A. Replacing existing interior doors.
  - B. Hollow metal doors and frames at storage and mechanical areas.
  - C. Solid-core wood veneer doors with hollow metal frames at all other locations.
  - D. Interior borrowed sidelights at classrooms and laboratories.
  - E. Panic hardware as required, including electronic lockdown hardware in corridors.

### C1030.00 – Specialties/Millwork

- Includes:
  - A. 6' Full height cabinets, 8' of base cabinets with solid surface top and 8' of wall cabinets at all classrooms.
  - B. Solid surface cabinets with epoxy resin counter tops at science labs.
  - C. Wood cubbies at mailroom.



- D. Library front desk.
- E. Admin/Guidance front desks.
- F. Wall-mounted solid surface countertops at all restrooms.
- G. Locker room benches.
- H. FRP wall panels at kitchen and janitorial areas.
- I. Phenolic toilet compartments and urinal screens.
- J. Toilet room grab bars and mirrors.
- K. Toilet paper dispensers, surface-mount waste receptacle, soap dispenser and hand dryers at restrooms.
- L. Fire extinguishers and cabinets.
- M. Glass shower door and folding shower seat.
- N. \$40,000 allowance for trophy and display cases.
- O. Custodial and student lockers to be painted metal.

### <u>C20 – STAIRCASES</u>

#### C2010.00 – Stair Construction

- Includes:
  - A. Existing stairs to receive new wall and hand railings to meet code.
  - B. Existing stair framing to remain as is.
  - C. New addition stairs to be rubber treads/risers.
  - D. Stair shafts to be drywall.

## <u>C30 – INTERIOR FINISHES</u>

#### C3010.00 – Wall Finishes

- Includes:
  - A. Ceramic tile wainscoting to 5'-0" AFF in toilet rooms.
  - B. Ceramic tile wainscoting to 5'-0" AFF at corridors.
  - C. Ceramic tile wainscoting to 5'-0" AFF at stairwells.
  - D. Wood wall paneling in auditorium.
  - E. Painted gypsum board in remainder of areas (except future classroom space).

#### C3020.00 – Floor Finishes

- Includes:
  - A. Carpet tile with rubber base at administrative offices.
  - B. Wood floor with wood base at gym and stage.
  - C. Linoleum and rubber base at classrooms and corridors.
  - D. Quarry tile and base at main kitchen and CTC kitchen.
  - E. Carpeted aisles and sealed concrete at auditorium.



- F. Carpet tile walk-off mats and rubber base at vestibules.
- G. Porcelain tile and base at CTC restaurant.
- H. Ceramic mosaic tile with tile base at toilet rooms and locker rooms.
- I. Sealed concrete and rubber base at CTC automotive & building technology classrooms, mechanical rooms and custodial rooms.
- J. Rubber-covered treads, risers and landings at metal pan stairs.

## C3030.00 – Ceiling Finishes

- Includes:
  - A. Acoustical ceiling tile and grid at classrooms, corridors and administrative offices.
  - B. Acoustical ceiling tile and grid appropriate for food production at kitchens.
  - C. 2" Tectum panels at gym (included at half of total square footage).
  - D. Wood acoustical clouds suspended at auditorium.
  - E. Suspended gypsum ceilings, painted at toilet and locker rooms.
  - F. Painted finish at exposed structure stage, CTC automotive & building technology.
- Excludes:
  - A. Ceilings/finish in mechanical, electrical and custodial rooms.
  - B. Ceilings/finish in future classroom space.

## <u>D10 – CONVEYING SYSTEMS</u>

#### D1010.00 – Elevators

- Includes:
  - A. Two new concrete elevator pits within existing structure.
  - B. Two new 2-story hydraulic elevators.
  - C. Existing elevators are to remain as is.

#### <u>D20 – PLUMBING SYSTEMS</u>

#### C2010.00 – Plumbing

- Includes:
  - A. New water service (4" / 6") with backflow protection to Animal Science and high school addition.
  - B. Domestic hot and cold water distributed to all plumbing fixtures.
  - C. New storm drain piping and roof drains on new roofs only.
  - D. Air compressor for vocational areas.
  - E. Gas distribution piping.
  - F. Rough-in for kitchen services.
  - G. Rough-in for 10 salon sinks.
  - H. 44 small laboratory sinks.



- I. 50 quick-connect compressed air outlets.
- J. Plumbing rough-in and connections.
- K. Cleaning, testing and adjusting of plumbing systems.
- L. Seismic restraints at piping to meet codes.
- M. Firestopping at pipe penetrations.

#### Excludes:

- A. Specialized plumbing equipment.
- B. Bathroom lavatories (assumed to be solid surface integral sinks carried in Division 6).
- C. New roof drains on renovation work.
- D. Kitchen equipment and/or fixtures.
- E. Salon fixtures.
- F. New underground sanitary waste in the existing-to-remain high school areas.
- G. New natural gas service, meter or regulator.

#### D30 – HVAC SYSTEMS

## D3010.00 - HVAC

- Includes:
  - A. (1) 50-ton, air-cooled chiller.
  - B. (25) Rooftop HVAC units.
  - C. 100% make-up air units and kitchen hood exhaust fans for Kitchen/Culinary.
  - D. (5) Ductless mini-splits.
  - E. (2) Kitchen exhaust fans.
  - F. (4) 2700 MBH condensing NG boilers.
  - G. (3) 330 MBH NG boilers.
  - H. Hot and chilled water pumps.
  - I. (2) Fume hoods with exhaust fans.
  - J. (2) Vehicle exhaust systems.
  - K. (2) Dust collection systems.
  - L. (1) Paint booth exhaust system.
  - M. Final cleaning of ductwork systems.
  - N. Direct digital controls (DDC) to monitor building temperature.
  - 0. Testing, adjusting and balancing with documentation of all HVAC systems.
  - P. Seismic restraints at piping and ductwork systems to meet codes.
  - Q. Firestopping at pipe and ductwork penetrations.

## Excludes

- A. Specialty kitchen equipment.
- B. Kitchen exhaust hood(s).



## <u>D40 – FIRE PROTECTION SYSTEMS</u>

#### D4010.00 – Fire Protection

- Includes:
  - C. New water service entrances (6") for Animal Science building and new addition to the high school, including backflow prevention devices.
  - D. Main piping is Schedule 40 grooved, steel pipe. Branch piping is Schedule 40 threaded, steel pipe.
  - E. Dry pendant sprinkler heads at small exterior canopies, extended from the wet-based distribution system.
  - F. (2) Fire Department connections for new buildings.
  - G. Dry sprinkler system to 50-foot diameter horse-riding ring.
  - H. Seismic restraints at piping to meet codes.
  - I. Firestopping at pipe penetrations.
- Excludes:
  - A. Fire pump(s).
  - B. Dedicated dry-sprinkler system.
  - C. Ansul or specialty systems for protection of kitchen equipment.

## <u>D50 – ELECTRICAL</u>

#### D5010.00 – Electrical

- Includes:
  - A. Allowance for electrical primary conductors and transformers.
  - B. 800 linear feet for primary length.
  - C. 100 linear feet for secondary service, 4'-0" x 2'-0" duct bank with (4) sets of #600 MCM conductors in each.
  - D. Security system.
  - E. Site lighting pole fixtures for every 7500 sf of new parking lot/roadways.
  - F. Interior lighting as described.
  - G. Lighting controls.
  - H. (2) 30kw UPS systems.
  - I. A lighting/sound/dimmer system allowance for auditorium lighting.
  - J. A sound system for the cafeteria and gymnasium.
  - K. Tel/com system with cabling, devices and equipment.
  - L. Fire alarm system.
  - M. 300 kW NG generator with a sound-attenuated exterior enclosure.
  - N. Security card reader system.
  - 0. Sealing and firestopping.
  - P. Lightning protection.
  - Q. Master clock / PA system.



- Excludes:
  - A. Nurse call system.
  - B. Lighting fixtures, power receptacles for modular classrooms.

#### E10 - EQUIPMENT

## E1010.00 – Equipment

- Includes:
  - C. Loading dock bumpers and seals.
  - D. Newer gym bleachers on one side of gym are to be salvaged and the other side is to receive new bleachers.
  - E. 6'-0" High wall padding in gym.
  - F. Gym divider curtain.
  - G. Six new basketball hoops.
  - H. One volleyball net with floor inserts.
  - I. Auditorium seating is to be replaced with 800 new seats.
  - J. \$175,000 allowance for new line sets & shell in the auditorium.

## E20 - FURNISHINGS

## E2010.00 – Fixed Furnishings

- Includes:
  - A. Marker boards and tack boards as noted in estimate.
  - B. Manual roller shades at 50% of glass openings.
- Excludes:
  - C. Smart boards.

### F10 - SPECIAL CONSTRUCTION

## F1010.00 – Special Construction

- Includes:
  - A. Round 50'-0" riding ring with a wood canopy and asphalt shingles.
  - B. Four 10'-0" x 10'-0" kennels with chain link fence over a 4" slab-on-grade.
  - C. Four new tennis courts.
  - D. New baseball field with drainage system.



## F20 - SELECTIVE BUILDING DEMOLITION

#### F2010.00 – Building Elements Demolition

- Includes:
  - A. Mass demolition of existing 3-story classroom addition.
  - B. Stripping existing building of all finishes, non-load bearing partitions and MEP systems.
  - C. Removing existing curtain wall.
  - D. Removing existing entrance canopy.
  - E. Removing face brick at addition side of structure as necessary.

### G10 - SITE PREPARATION

#### G1020.00- Site Demolition

- Includes:
  - A. Removing all existing asphalt paving and walkways.

#### G1030.00- Earthwork

- Includes:
  - A. Clearing and grubbing.
  - B. Site excavation at addition and infill at existing classroom structure after demolition.
  - C. Stockpiling of topsoil for reuse on site as required, if suitable.
  - D. Removal of excess topsoil and/or reuse on site as site fill material.
  - E. Stockpiling and seeding of excess topsoil on site for the Owner's use.
  - F. Installation, maintenance and removal of erosion control.
  - G. Installation, maintenance and removal of temporary access road(s).
  - H. Inlet protection.

## G2010.00- Site Paving

- Includes:
  - A. New asphalt paving at parking lots and road along Alumni Drive.
  - B. Heavy-duty paving at Lot C.
  - C. Pavement striping within interior and exterior parking areas.
  - D. Roadway and parking signage as described in the estimate.
  - E. Concrete walkways consisting of 4" cast-in-place concrete over 8" of crushed gravel base on a compacted subgrade.
  - F. Temporary asphalt walkways.

#### G2050.00- Landscaping

- Includes:
  - A. \$140,000 allowance for general landscaping outside of the courtyard.
  - B. \$150,000 allowance for courtyard site finishes.



## **G30 – SITE UTILITIES**

#### G3010.00- Site Utilities

- Includes:
  - A. Water, sanitary and secondary power utilities to service modular classrooms.
  - B. All new storm catch basins with HDPE drainage pipe for new site paving.
  - C. Concrete ductbank at secondary electrical trenching.
  - D. New site lighting throughout.
  - E. Two grease interceptors to serve high school kitchen and CTC kitchen.
  - F. Existing utilities to high school are assumed to be sized adequately and to remain as is.

## Z10 - GENERAL

#### Z1010.00- General Conditions

- A. This estimate is based on a 39-month construction schedule.
- B. Builder's Risk insurance is included; loss of use is excluded.
- C. A Performance and Payment Bond has been included.
- D. Consumption costs for steam, electrical energy and water are to be provided by Owner.
- E. Our Schematic Design, Design Development and Construction Document Estimates include a Construction Manager estimating contingency. As the design progresses and the project approaches construction, the contingency will be reduced accordingly.
- F. The following items are excluded:
  - a. Sales tax.
  - b. Third-party commissioning for MEP systems, automation controls, building and building envelope.
  - c. Owner's Protective insurance.
  - d. Impact fees at the Federal, State or local level.
  - e. All permits apart from trade-specific permits.
  - f. Design fees.
  - g. All fixtures, furniture and equipment.
  - h. Owner's contingency.
  - i. Design contingency.
  - i. Residential appliances.



## SCOPE OF WORK CLARIFICATIONS

### A10 - FOUNDATIONS

#### A1010.00 - Standard Foundations

- Includes:
  - A.  $1'-0'' \times 5'-0''$  Continuous concrete footing with  $1'-0'' \times 13'$  high site retaining wall.
  - B. 1'-0" x 3'-0" Continuous concrete footing with 12" x 5'-0" high stepped frost wall at addition.
  - C.  $3'-0'' \times 3'-0'' \times 1'-0''$  Isolated footings on a 30'-0" grid spacing at addition.
  - D. 8" x 16" Continuous concrete footing with an 8" x 5'-0" high frost wall at barn addition.
  - B.  $18'' \times 4'-0''$  Concrete piers with  $2'-0'' \times 2'-0'' \times 1'-0''$  footings at new riding ring.
  - C. Concrete to be 3,000 PSI.
  - D. Pumping as necessary for cast-in-place concrete work.
  - E. Excavation for the foundation work mentioned above includes backfilling with borrowed crushed stone on inner side of frost walls and on-site material for outer side of wall.
  - F. Damp-proofing and 2" rigid insulation at all frost walls.

#### A1020.00 - Special Foundations

- Includes:
  - A. Aggregate piers are to be located at the northeast corner of the addition.

## A1030.00 - Lowest Floor Construction

- Includes:
  - A. 5" slab-on-grade, 2" rigid insulation, 15 mil stego wrap and 8" subbase at barn addition.
  - B. 5" slab-on-grade at areas receiving aggregate piers; other areas are 4".

#### **B10 - SUPERSTRUCTURE**

#### B1010.00 - Floor Construction

- Includes:
  - A. 5-1/2" Concrete slab over 2" painted steel deck at new addition.
  - B. Structural steel tonnage calculated based on 12 lbs/sf.
  - C. All new structural steel members and roof deck to receive spray fireproofing.
- Includes:
  - A. Intumescent paint.
  - B. Fireproofing at the barn and riding ring.



#### B1020.00 - Roof Construction

- Includes:
  - A. Steel joists with 1-1/2" metal deck at the CTC garage areas, gym and auditorium.
  - B. The barn addition roof structure is to include 6:12 pitch wood trusses with 5/8" OSB roof sheathing.
  - C. Wood-framed pavilion canopy at riding ring.
  - D. Two new entrance canopies at the high school.
  - E. Steel roof framing to be pitched at new addition.

#### B20 – EXTERIOR CLOSURE

#### B2010.00 – Exterior Walls

- Includes:
  - A. Wood-stud framing with T&G red cedar siding at barn addition.
  - B. Exterior walls to receive 6" light-gauge steel studs with 5/8" densglass, 3" spray foam, fluid applied air barrier and 5/8" drywall.
  - C. Building to receive brick veneer at 70% of envelope; precast elements have not been included.

#### B2020.00 - Windows

- Includes:
  - A. Aluminum/vinyl clad windows at the barn addition.
  - B. 30% of building exterior wall will be curtain wall.

### B2030.00 - Exterior Doors

- Includes:
  - A. Wood sliding barn doors and 3070 HM doors at barn addition.
  - B. Coiling overhead doors and 3070 HM doors at CTC areas.
  - C. Building to receive hollow metal doors/frames at storage and mechanical areas. Main entry to be storefront.

### **B30 – R00FING**

#### B3010.00 - Roof Coverings

- Includes:
  - A. Asphalt shingle roof with 12" batt insulation at barn addition.
  - B. Thermoplastic membrane roof with break metal coping.
  - C. Two entrance canopies.



## C10 - INTERIOR CONSTRUCTION

#### C1010.00 - Partitions

- Includes:
  - A. Light-gauge steel, 5/8" drywall on both sides, fiberglass sound attenuation batt and acoustical caulking at interior partitions.
  - B. Level 4 drywall finish at visible surfaces; level 1 finish at non-visible surfaces.
  - C. Gypsum-based tile backer at wall surfaces to receive tile finish.
  - D. Fire & smoke-rated partitions as required.
- Excludes:
  - A. Partitions at future classroom space.

#### C1020.00 - Doors

- Includes:
  - A. Hollow metal doors and frames at storage and mechanical areas.
  - B. Solid-core wood veneer doors with hollow metal frames at all other locations.
  - C. Interior borrowed sidelights at classrooms and laboratories.
  - D. Panic hardware as required, including electronic lockdown hardware in corridors.

## C1030.00 – Specialties/Millwork

- Includes:
  - A. 6' Full-height cabinets, 8' of base cabinets with solid surface top and 8' of wall cabinets at all classrooms.
  - B. Solid surface cabinets with epoxy resin countertops at science labs.
  - C. Wood cubbies at mailroom.
  - D. Library front desk.
  - E. Admin/Guidance front desks.
  - F. Wall-mounted solid surface countertops at all restrooms.
  - G. Locker room benches.
  - H. FRP wall panels at kitchen and janitorial areas.
  - I. Phenolic toilet compartments and urinal screens.
  - J. Toilet room grab bars and mirrors.
  - K. Toilet paper dispensers, surface mount waste receptacle, soap dispenser and hand dryers at restrooms.
  - L. Fire extinguishers and cabinets.
  - M. Glass shower door and folding shower seat.
  - N. \$40,000 allowance for trophy and display cases.
  - 0. Custodial and student lockers to be painted metal.



## C20 - STAIRCASES

#### C2010.00 – Stair Construction

- Includes:
  - A. New addition stairs to be rubber treads/risers.
  - B. Stair shafts to be drywall.

#### <u>C30 – INTERIOR FINISHES</u>

#### C3010.00 – Wall Finishes

- Includes:
  - A. Ceramic tile wainscoting to 5'-0" AFF in toilet rooms.
  - B. Ceramic tile wainscoting to 5'-0" AFF at corridors.
  - C. Ceramic tile wainscoting to 5'-0" AFF at stair wells.
  - D. Wood wall paneling in auditorium.
  - E. Painted gypsum board in remainder of areas (except future classroom space).

## C3020.00 - Floor Finishes

- Includes:
  - A. Carpet tile with rubber base at administrative offices.
  - B. Wood floor with wood base at gym and stage.
  - C. Linoleum and rubber base at classrooms and corridors.
  - D. Quarry tile and base at main kitchen and CTC kitchen.
  - E. Carpeted aisles and sealed concrete at auditorium.
  - F. Carpet tile walk-off mats and rubber base at vestibules.
  - G. Porcelain tile and base at CTC restaurant.
  - H. Ceramic mosaic tile with tile base at toilet rooms and locker rooms.
  - I. Sealed concrete and rubber base at CTC automotive & building technology classrooms, mechanical rooms and custodial rooms.
  - J. Rubber-covered treads, risers and landings at metal pan stairs.

#### C3030.00 – Ceiling Finishes

- Includes:
  - A. Acoustical ceiling tile and grid at classrooms, corridors and administrative offices.
  - B. Acoustical ceiling tile and grid appropriate for food production at kitchens.
  - C. 2" Tectum panels at gym (included at half of total square footage).
  - D. Wood acoustical clouds suspended at auditorium.
  - E. Suspended gypsum ceilings, painted at toilet and locker rooms.
  - F. Painted finish at exposed structure stage, CTC automotive & building technology.
- Excludes:
  - A. Ceilings/finish in mechanical, electrical and custodial rooms.



B. Ceilings/finish in future classroom space.

## <u>D10 – CONVEYING SYSTEMS</u>

## **D1010.00** – Elevators

- Includes:
  - A. Two hydraulic elevators.

#### D20 – PLUMBING SYSTEMS

## **C2010.00** – **Plumbing**

- Includes:
  - A. New water service (4"/6") with backflow protection to new Animal Science and high school.
  - B. Domestic hot and cold water distributed to all plumbing fixtures.
  - C. New storm drain piping and roof drains on new roofs only.
  - D. Air compressors for vocational areas.
  - E. Gas distribution piping.
  - F. Rough-in for kitchen services.
  - G. Rough-in for 10 salon sinks.
  - H. 44 small laboratory sinks.
  - 50 quick-connect compressed air outlets.
  - J. Plumbing rough-in and connections.
  - K. Cleaning, testing and adjusting of plumbing systems.
  - L. Seismic restraints at piping to meet codes.
  - M. Firestopping at pipe penetrations.
- Excludes:
  - A. Specialized plumbing equipment.
  - B. Bathroom lavatories (assumed to be solid surface integral sinks carried in Division 6).
  - C. New roof drains on renovation work.
  - D. Kitchen equipment and/or fixtures.
  - E. Salon fixtures.
  - F. New natural gas service, meter or regulator.

## D30 – HVAC SYSTEMS

## D3010.00 - HVAC

- Includes:
  - A. (1) 50-ton, air-cooled chiller.



- B. (24) Rooftop HVAC units.
- C. 100% make-up air units and kitchen hood exhaust fans for Kitchen/Culinary.
- D. (5) Ductless mini-splits.
- E. (2) Kitchen exhaust fans.
- F. (4) 2500 MBH condensing NG boilers.
- G. (3) 330 MBH NG boilers.
- H. Hot and chilled water pumps.
- I. (2) Fume hoods with exhaust fans.
- J. (2) Vehicle exhaust systems.
- K. (2) Dust collection systems.
- L. (1) Paint booth exhaust system.
- M. Final cleaning of ductwork systems.
- N. Direct digital controls (DDC) to monitor building temperature.
- 0. Testing, adjusting and balancing with documentation of all HVAC systems.
- P. Seismic restraints at piping and ductwork systems to meet codes.
- Q. Firestopping at pipe and ductwork penetrations.

#### Excludes:

- A. Specialty kitchen equipment.
- B. Kitchen exhaust hood(s).

#### D40 - FIRE PROTECTION SYSTEMS

#### D4010.00 – Fire Protection

- Includes:
  - A. New water service entrances (6") for Animal Science building and new addition to the high school, including backflow prevention devices.
  - B. Main piping is Schedule 40 grooved, steel pipe. Branch piping is Schedule 40 threaded, steel pipe.
  - C. Dry pendant sprinkler heads at small exterior canopies, extended from the wet-based distribution system.
  - D. Fire Department connections for new buildings (2).
  - E. Dry sprinkler system to 50-foot diameter horse-riding ring.
  - F. Seismic restraints at piping to meet codes.
  - G. Firestopping at pipe penetrations.
- Excludes:
  - A. Fire pump(s).
  - B. Dedicated dry-sprinkler system.
  - C. Ansul or specialty systems for protection of kitchen equipment.



## <u>D50 – ELECTRICAL</u>

#### D5010.00 - Electrical

- Includes:
  - A. An allowance for electrical primary conductors and transformers.
  - B. 800 linear feet for primary length.
  - C. 100 linear feet for secondary service, 4'-0" x 2'-0" duct bank w/(4) sets of #600 MCM conductors in each.
  - D. Security system.
  - E. Site lighting pole fixtures for every 7,500 sf of new parking lot/roadways.
  - F. Interior lighting as described.
  - G. Lighting controls.
  - H. (2) 30kw UPS systems.
  - I. A lighting/sound/dimmer system allowance for auditorium lighting.
  - J. A sound system for the cafeteria and gymnasium.
  - K. Tel/com system with cabling, devices and equipment.
  - L. Fire alarm system.
  - M. 350 kW NG generator with a sound attenuated exterior enclosure.
  - N. Security card reader system.
  - 0. Sealing and firestopping.
  - P. Lightning protection.
  - Q. Master clock/PA system.
- Excludes:
  - A. Nurse call system.

## E10 - EQUIPMENT

#### E1010.00 – Equipment

- Includes:
  - A. Loading dock bumpers and seals.
  - B. Newer gym bleachers on one side of gym are to be salvaged and the other side is to receive new bleachers.
  - C. 6'-0" High wall padding in gym.
  - D. Gym divider curtain.
  - E. Six new basketball hoops.
  - F. One volleyball net with floor inserts.
  - G. Auditorium seating is to be replaced with 800 new seats.
  - H. \$175,000 allowance for new line sets & shell in the auditorium.



## E20 - FURNISHINGS

#### E2010.00 – Fixed Furnishings

- Includes:
  - A. Marker boards and tack boards as noted in estimate.
  - B. Manual roller shades at 50% of glass openings.
- Excludes:
  - C. Smart boards.

## F10 - SPECIAL CONSTRUCTION

## F1010.00 – Special Construction

- Includes:
  - A. Round 50'-0" riding ring with a wood canopy and asphalt shingles.
  - B. Four 10'-0" x 10'-0" kennels with chain link fence over a 4" slab on grade.
  - C. Six new tennis courts.
  - D. New baseball field with drainage system.
  - E. New soccer field with drainage system.

## F20 - SELECTIVE BUILDING DEMOLITION

## F2010.00 – Building Elements Demolition

- Includes:
  - A. Mass demolition of existing high school.
  - B. Removal of existing entrance canopy.

#### G10 - SITE PREPARATION

## G1020.00- Site Demolition

- Includes:
  - A. Removal of all existing asphalt paving and walkways.

#### G1030.00- Earthwork

- Includes:
  - A. Clearing and grubbing.
  - B. This estimate assumes a lower proposed finish floor elevation to further balance the site due to the infill required at existing high school footprint.
  - C. Site excavation at addition and infill at existing classroom structure after demolition is included.
  - D. Stockpiling of topsoil for reuse on site as required, if suitable.



- E. Removal of excess topsoil and/or reuse on site as site fill material.
- F. Stockpiling and seeding of excess topsoil on site for the Owner's use.
- G. Installation, maintenance and removal of erosion control.
- H. Installation, maintenance and removal of temporary access road(s).
- I. Inlet protection.

## G2010.00- Site Paving

- Includes:
  - A. New asphalt paving at parking lots and road along Alumni Drive.
  - B. Heavy duty paving at Lot C.
  - C. Pavement striping within interior and exterior parking areas.
  - D. Roadway and parking signage as described in the estimate.
  - E. Concrete walkways consisting of 4" cast-in-place concrete over 8" of crushed gravel base on a compacted subgrade.
  - F. Temporary asphalt walkways.

#### G2050.00- Landscaping

- Includes:
  - A. \$150,000 allowance for general landscaping outside of the courtyard.
  - B. \$150,000 allowance for courtyard site finishes.

#### G30 – SITE UTILITIES

#### G3010.00- Site Utilities

- Includes:
  - A. Water, sanitary and secondary power utilities to service modular classrooms.
  - B. All new storm catch basins with HDPE drainage pipe for new site paving.
  - C. Concrete duct bank at secondary electrical trenching.
  - D. New site lighting throughout.
  - E. Two grease interceptors to serve high school kitchen and CTC kitchen.
  - F. Existing utilities to high school are assumed to be sized adequately and to remain as is.

### Z10 - GENERAL

#### Z1010.00- General Conditions

- A. This estimate is based on a 39-month construction schedule.
- B. Builder's Risk insurance is included; loss of use is excluded.
- C. A Performance and Payment Bond has been included.
- D. Consumption costs for steam, electrical energy and water are to be provided by Owner.



- E. Our Schematic Design, Design Development and Construction Document Estimates include a Construction Manager estimating contingency. As the design progresses and the project approaches construction, the contingency will be reduced accordingly.
- F. The following items are excluded:
  - a. Sales tax.
  - b. Third-party commissioning for MEP systems, automation controls, building and building envelope.
  - c. Owner's Protective insurance.
  - d. Impact fees at the Federal, State or local level.
  - e. All permits apart from trade-specific permits.
  - f. Design fees.
  - g. All fixtures, furniture and equipment.
  - h. Owner's contingency.
  - i. Design contingency.
  - j. Residential appliances.



## LIST OF DOCUMENTS

## **Drawing List**

### Option 1:

• Full Rehabilitation – Phase 1 through 7, Years 1 through 7, Dover HS/CTC, Dover, NH, Updated 04/07/2015; HMFH Architects.

### Option 2:

- Renovation Add Option 2b, Dover HS/CTC, Dover, NH, Updated 05/06/2015; HMFH Architects.
- Sheet C-1, Concept 2 Renovation/Addition, Dover High School, March 2015; Nobis

### Option 3:

- New Construction Option 3a, Dover HS/CTC, Dover, NH, Updated 05/06/2015; HMFH Architects.
- Sheet C-1, Concept 3 New Construction, Dover High School, March 2015; Nobis

## **Narratives**

### Option 1:

- Dover Regional High School and Career Technical Center Architectural Narrative
- Dover Regional High School and Career Technical Center Structural Narrative
- Base Rehabilitation Option Site Work Narrative
- Dover High School and Career Technical Center Option 1, Fire Protection, Plumbing, HVAC & Electrical Systems Narrative; Garcia-Galuska-DeSousa, May 15, 2015

#### Option 2:

- Dover Regional High School and Career Technical Center Architectural Narrative
- Dover Regional High School and Career Technical Center Structural Narrative
- Renovation Add Option 2b Site Work Narrative
- Dover High School and Career Technical Center Option 2b, Fire Protection, Plumbing, HVAC & Electrical Systems Narrative; Garcia-Galuska-DeSousa, May 15, 2015

#### Option 3:

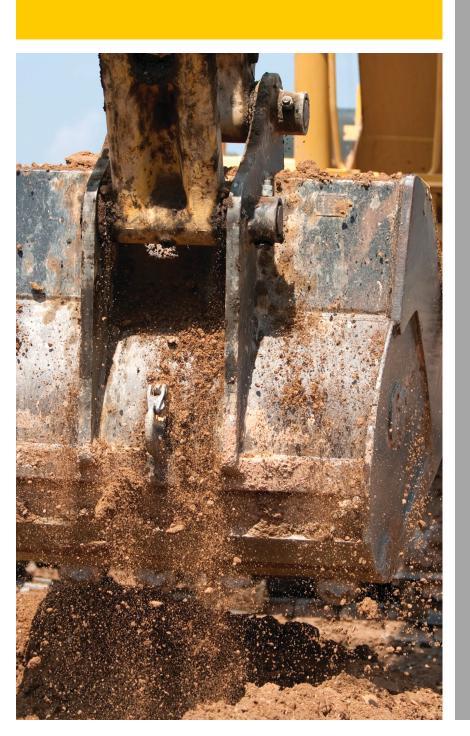
- Dover Regional High School and Career Technical Center Architectural Narrative
- Dover Regional High School and Career Technical Center Structural Narrative
- New Construction Option 3 Site Work Narrative
- Dover High School and Career Technical Center Option 3b & 3d, Fire Protection, Plumbing, HVAC
   & Electrical Systems Narrative; Garcia-Galuska-DeSousa, May 15, 2015



## **Dover HS & CTC Options Concept Schedule**

Activity	2015					2016								2017								2018								2019							
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Dover HC Prelim Schedule.xlsx 6/22/2015





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PC Construction Company 100% Employee Owned

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