

PROGRAM DEMAND COST MODEL
FOR ALASKAN SCHOOLS
25th EDITION

SPACE UNIT COSTS FOR NEW SCHOOL
AND RENOVATION WORK

APRIL 2026



NOTES REGARDING ESTIMATES FOR NEW CONSTRUCTION AND RENOVATION

These unit rates are taken from the cost estimate developed for the model school building escalation cost study for Anchorage, Alaska (base), dated April 2026.

PART 1

This section supports cost estimates for new school construction projects.

Worksheet 1.00 - 2.00 develops square foot unit costs for Sections 1.00 and 2.00 of the model, which are directly taken from the model school building estimate. Worksheets 3.01 through 4.092 develop unit costs for special requirements elements in Section 3.00 of the model, and site work elements in Section 4.00 of the model, respectively. When component and system elements match those in the model school, rates from that cost study are used. When cost are needed for options outside the model school, independent estimates are created on specific worksheets in this file.

PART 2

This section supports unit costs for school remodel, renovation, and alteration projects.

Worksheets 11.02 through 12.03 develop unit costs for renovation elements in Section 11.00 of the model, and hazardous material elements in Section 12.00 of the model, respectively. When component and system elements match those in the model school, rates from that cost study are used. When cost are needed for options outside the model school, independent estimates are created on specific worksheets in this file.

PART 1

Estimates for New Construction and Major Demolition Work

GROSS FLOOR AREA: 41,400 SF

**1.00 INSTRUCTIONAL/RESOURCE AND SUPPORT
TEACHING SPACE**

1.01 STANDARD CLASSROOMS

	\$	\$/SF	KEY
SUBSTRUCTURE	\$ 1,136,658	\$ 27.46	
SUPERSTRUCTURE	\$ 3,964,859	\$ 95.77	
EXTERIOR CLOSURE	\$ 1,870,451		
LESS High Bay Areas (Gym, Media/Library, Music)	-216,127		
TOTAL (4,650 SF):	\$ 1,654,324	\$ 39.96	
ROOFING	\$ 2,121,801	\$ 51.25	
INTERIOR CONSTRUCTION			
Partitions, Doors, and Specialties	\$ 1,610,371		
Finishes	1,320,305		
Toilet Partitions	-16,453		
Toilet Accessories	-35,329		
Lockers	-27,459		
Resilient Gym Flooring	-113,934		
Ceramic Floor Tile	-39,039		
Ceramic Wall Tile	-46,335		
Vinyl, Hardboard, Carpet, and Wainscot	-129,758		
TOTAL:	\$ 2,522,369	\$ 60.93	
MECHANICAL	\$ 3,957,639		
Plumbing	-392,457		
Standard Classroom Sinks and Plumbing (15 Each)	-75,891		
Exhaust (4 Each)	-30,484		
TOTAL:	\$ 3,458,807	\$ 83.55	

**1.00 INSTRUCTIONAL/RESOURCE AND SUPPORT
TEACHING SPACE (Continued)**

\$ \$/SF

1.01 STANDARD CLASSROOMS (Continued)

ELECTRICAL	\$ 2,154,669	
Electrical Connections to Fans (9)	-4,396	
Gym Lighting	-35,841	
Gym Public Address System	-58,769	
TOTAL:	<u>\$ 2,055,663</u>	\$ 49.65

EQUIPMENT/FURNISHINGS	\$ 225,448	
Sports Equipment	-56,067	
Commercial Food Preparation/Laundry Equipment	-130,386	
Reception Desk	-11,199	
Kitchen Casework (12 LF)	-7,959	
Kindergarten Cubbies (4 Each)	-17,639	
Media Center/Library Stacks	-18,330	
Music Room Closet	-3,473	
Entry Mats	-5,394	
Damp/Lab Casework (16 LF)	-10,852	
TOTAL:	<u>-\$ 35,851</u>	<u>-\$ 0.87</u>

TOTAL 1.01 - \$/SF:

\$ 407.70 /SF

**1.00 INSTRUCTIONAL/RESOURCE AND SUPPORT
TEACHING SPACE (Continued)**

\$

\$/SF

1.02 KINDERGARTEN/PRIMARY CLASSROOM (1,200 SF)

BASE COST:

\$ 407.70

Cubbies (4 Each)

\$ 17,639

Bathroom:

Toilet Fixtures (2 Each)

10,119

Vanities (5'0")

2,009

Accessories (5 Each)

1,009

Partition (150 SF)

3,003

Wainscot, Prefinished Hardboard (60 SF)

548

Ceramic Floor Tile/Base (25 SF)

697

Door (1 Each)

7,663

Toilet Exhaust (1 Each)

1,548

Electrical Connection (1 Each)

488

TOTAL:

\$ 44,723

\$ 37.27

TOTAL 1.02 - \$/SF:

\$ 444.97 /SF

1.03 DAMP CLASSROOM/LABORATORY (1,000 SF)

BASE COST:

\$ 407.70

Toilet Fixtures (4 Each)

\$ 20,238

Toilet Accessories (4 Each)

808

Exhaust

7,621

Casework: Base, Worktop and Wall Unit (16 LF)

10,612

Electrical Connection (1 Each)

488

TOTAL:

\$ 39,767

\$ 39.77

TOTAL 1.03 - \$/SF:

\$ 447.47 /SF

**1.00 INSTRUCTIONAL/RESOURCE AND SUPPORT
TEACHING SPACE (Continued)**

1.04 GYMNASIUM (3,500 SF)

BASE COST: \$ 407.70

MDO Plywood Wainscot (4,520 SF)	\$ 28,382
High Bay (Exterior Closure) (12'6") (3,000 SF)	139,437
Resilient Gym Flooring (3,500 SF)	113,934
Drinking Fountain (2 Each)	10,119
Electrical Connection (2 Each)	977
Lighting	35,841
Sound/Public Address System	58,769
Manual Bleachers (240 Seats)	71,407
Sports Equipment	56,067
TOTAL:	<u>\$ 514,933</u>

\$ 143.04

TOTAL 1.04 - \$/SF: \$ 550.74 /SF

1.05 MEDIA CENTER/LIBRARY (3,280 SF)

BASE COST: \$ 407.70

High Bay (Exterior Closure) (4'0") (920 SF)	\$ 42,761
Stacks	18,330
TOTAL:	<u>\$ 61,091</u>

\$ 18.63

TOTAL 1.05 - \$/SF: \$ 426.33 /SF

**1.00 INSTRUCTIONAL/RESOURCE AND SUPPORT
TEACHING SPACE (Continued)**

\$ \$/SF

1.06 MUSIC ROOM (1,100 SF)

BASE COST: \$ 407.70

Wainscot (1,080 SF) (Carpet)	\$ 9,330
High Bay (Exterior Closure) (5'6") (730 SF)	33,930
Closet/Instrument Storage (4 Each)	3,473
TOTAL:	<u>\$ 46,733</u>

\$ 42.48

TOTAL 1.06 - \$/SF: \$ 450.18 /SF

1.07 CONSUMER EDUCATION (1,500 SF) (ADDITION)

BASE COST: \$ 407.70

Ceramic Tile (600 SF)	\$ 16,548
Toilet Accessories (4 Each)	808
Plumbing (2 Each)	10,119
Exhaust	1,548
Commerical Equipment (5 Ranges and Refrigerators)	79,999
Casework: Base, Worktop and Wall Unit (8 LF)	5,426
Electrical Connection (6 Each)	2,930
TOTAL:	<u>\$ 117,378</u>

\$ 78.25

TOTAL 1.07 - \$/SF: \$ 485.95 /SF

**1.00 INSTRUCTIONAL/RESOURCE AND SUPPORT
TEACHING SPACE (Continued)**

\$

\$/SF

1.08 CAREER TECHNOLOGY (1,500 SF) (ADDITION)

BASE COST:

\$ 407.70

High Bay Exterior Closure (4'0") (620 SF)

\$ 28,817

Plumbing (Eyewash/Shower) (1 Each)

5,059

Special Air Collection Systems (2 Each)

63,488

Vocational Education Equipment

Not Included

Electrical Connection (2 Each)

977

TOTAL:

\$ 98,341

\$ 65.56

TOTAL 1.08 - \$/SF:

\$ 473.26 /SF

1.09 and 1.10 OTHER

Cost of space per square foot for educational areas not already considered.

2.00 GENERAL SUPPORT AND SUPPLEMENTARY AREAS

	\$	\$/SF
2.01 <u>MULTI-PURPOSE ROOM (2,300 SF) (ADDITION)</u>		
BASE COST:		\$ 407.70
High Bay (Exterior Closure) (5'6") (1,060 SF)	\$ 49,268	<u>\$ 21.42</u>
TOTAL 2.01 - \$/SF:		<u>\$ 429.12 /SF</u>
2.021 <u>AUDITORIUM (250 SEATS - 3,100 SF) (ADDITION)</u>		
BASE COST:		\$ 407.70
High Bay Exterior Closure (8'9") (600 SF)	\$ 27,887	
Acoustics	85,333	
Seats (250 Each)	245,839	
Air and Cooling Systems Enhancement	225,317	
Sound System	<u>62,229</u>	
TOTAL:	\$ 646,605	<u>\$ 208.58</u>
TOTAL 2.021 - \$/SF:		<u>\$ 616.28 /SF</u>
2.022 <u>PLATFORM STAGE (2,500 SF)</u>		
BASE COST:		\$ 407.70
Stage Platform Floor Assembly (2,500 SF)	\$ 238,352	
Stage Lighting and Controls	37,306	
Sound System	<u>62,229</u>	
TOTAL:	\$ 337,887	<u>\$ 135.15</u>
TOTAL 2.022 - \$/SF:		<u>\$ 542.85 /SF</u>

2.00 GENERAL SUPPORT AND SUPPLEMENTARY AREAS
(Continued)

2.023 STAGE (4,250 SF) (ADDITION)

	\$	\$/SF
BASE COST:		\$ 407.70
High Bay Exterior Closure (8'9") (875 SF)	\$ 40,669	
Fire Rated Partitions and Openings	165,176	
Stage Floor Assembly (4,250 SF)	405,198	
60'0"x20'0" High Theater Curtains (2 Each)	37,702	
Rigging and Controls	221,217	
Stage Lighting and Controls	63,420	
Air and Cooling Systems Enhancement	308,902	
TOTAL:	<u>\$ 1,242,284</u>	<u>\$ 292.30</u>
TOTAL 2.023 - \$/SF:		<u><u>\$ 700.00 /SF</u></u>

2.03 LOCKERS/SHOWERS (2,800 SF) (ADDITION)

BASE COST:		\$ 407.70
Partition (980 SF)	\$ 39,431	
Door Assembly (4 Each)	14,275	
Toilet Partitions (9 Each)	16,453	
Vanity Top (28 LF)	11,253	
Lockers/Showers (100 Each)	54,917	
Toilet Accessories (90 Each)	18,169	
Ceramic Floor Tile (2,800 SF)	78,078	
Ceramic Wall Tile (3,360 SF)	93,135	
Plumbing (36 Each)	182,138	
Exhaust (2 Each)	15,242	
Electrical Connection (2 Each)	977	
TOTAL:	<u>\$ 524,068</u>	<u>\$ 187.17</u>
TOTAL 2.03 - \$/SF:		<u><u>\$ 594.87 /SF</u></u>

2.00 GENERAL SUPPORT AND SUPPLEMENTARY AREAS
(Continued)

2.04 ADMINISTRATION (1,450 SF)

BASE COST:		\$ 407.70
Partition (880 SF)	\$ 17,618	
Door Assembly (3 Each)	10,604	
Reception Desk (1 Each)	11,199	
Casework Base and Wall Unit (6 LF)	4,069	
Toilet Accessories (2 Each)	404	
Sink (1 Each)	5,059	
Commercial Under Counter Refrigerator	3,284	
TOTAL:	<u>\$ 52,237</u>	<u>\$ 36.03</u>
TOTAL 2.04 - \$/SF:		<u><u>\$ 443.73</u></u> /SF

2.05 CAFETERIA/FOOD PREPARATION (300 SF)

BASE COST:		\$ 407.70
Ceramic Floor Tile (300 SF)	\$ 8,316	
Wainscot (Hardboard) (560 SF)	5,118	
Toilet Accessories (4 Each)	808	
Plumbing	32,180	
Exhaust	7,621	
Kitchen Equipment	130,386	
Kitchen Casework (15 LF)	10,174	
Electrical Connection (16 Each)	7,815	
TOTAL:	<u>\$ 202,418</u>	<u>\$ 674.73</u>
TOTAL 2.05 - \$/SF:		<u><u>\$ 1,082.43</u></u> /SF

2.00 GENERAL SUPPORT AND SUPPLEMENTARY AREAS
(Continued)

2.06 STORAGE (1,750 SF)

	\$	\$/SF
BASE COST:		\$ 407.70
Finishes		<u>-\$ 107.00</u>
TOTAL 2.06 - \$/SF:		<u><u>\$ 300.70 /SF</u></u>

2.07 TOILETS (1,400 SF)

BASE COST:		\$ 407.70
Partition (300 SF)	\$ 12,071	
Door Assembly (4 Each)	14,275	
Toilet Partitions (12 Each)	21,937	
Vanity Top (23 LF)	9,243	
Toilet Accessories (75 Each)	15,141	
Ceramic Wall Tile (1,680 SF)	46,567	
Ceramic Floor Tile (1,400 SF)	39,039	
Plumbing (30 Each)	151,782	
Exhaust (2 Each)	15,242	
Electrical Connection (2 Each)	977	
TOTAL:	<u>\$ 326,274</u>	<u>\$ 233.05</u>
TOTAL 2.07 - \$/SF:		<u><u>\$ 640.75 /SF</u></u>

2.00 GENERAL SUPPORT AND SUPPLEMENTARY AREAS
(Continued)

2.08 CIRCULATION (5,600 SF)

BASE COST:		\$ 407.70
Vinyl Wainscot (2,000 SF)	\$ 16,678	
Drinking Fountains (2 Each)	10,119	
Lockers (50 Each)	27,459	
Entry Mats	5,394	
Electrical Connection (2 Each)	977	
TOTAL:	<u>\$ 60,627</u>	<u>\$ 10.83</u>
TOTAL 2.08 - \$/SF:		<u><u>\$ 418.53 /SF</u></u>

2.09 MECHANICAL/ELECTRICAL (1,850 SF)

BASE COST		\$ 407.70
Finishes		<u>-\$ 107.00</u>
TOTAL 2.09 - \$/SF:		<u><u>\$ 300.70 /SF</u></u>

2.10 CUSTODIAL (64 SF)

BASE COST:		\$ 407.70
Finishes	-\$ 107.00	
Add FRP Wall Covering (48" Wainscot)	975	
TOTAL:	<u>\$ 868.00</u>	<u>\$ 13.56</u>
TOTAL 2.10 - \$/SF:		<u><u>\$ 421.26 /SF</u></u>

2.11 and 2.12 OTHER

Cost of support and supplementary space per square foot not already considered.

3.00 SPECIAL REQUIREMENTS

\$

3.011 EMERGENCY GENERATOR WITHIN BUILDING (SEE 11.148 OF THIS ESTIMATE)

See Pages 176 to 178 of this estimate.

Fuel Oil System Tank, Including Day Tank, 150 KW Generator, Switchgear and Connections	<u>\$ 355,223</u>
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TOTAL FOR 150 KW:	\$ 355,223
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TOTAL 3.011 - COST PER KW:	<u><u>\$ 2,368.15 /KW</u></u>
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3.012 EMERGENCY GENERATOR IN PRE-PACKAGED ENCLOSURE (PAD MOUNTED) (SEE 11.149 OF THIS ESTIMATE)

See Pages 179 to 181 of this estimate.

Fuel Oil System Tank, Including Day Tank, 150 KW Generator, Switchgear and Connections	<u>\$ 328,572</u>
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TOTAL FOR 150 KW:	\$ 328,572
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TOTAL 3.012 - COST PER KW:	<u><u>\$ 2,190.48 /KW</u></u>
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3.013 GENERATOR PRIMARY POWER (SEE 11.150 OF THIS ESTIMATE)

See Pages 182 to 184 of this estimate.

Fuel Oil System Tank, Including Day Tank, 500 KW Generator, Switchgear and Connections	<u>\$ 1,411,769</u>
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TOTAL FOR 500 KW:	\$ 1,411,769
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TOTAL 3.013 - COST PER KW:	<u><u>\$ 2,823.54 /KW</u></u>
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3.00 SPECIAL REQUIREMENTS (Continued)

\$

3.02 5,000 GALLON FUEL OIL STORAGE FOR GENERATOR
Also 4.06 - Bulk Fuel Storage

See Page 60 of this estimate.

TOTAL FOR 5,000 GALLONS: \$ 107,878

TOTAL 3.02 & 4.06 - COST PER GALLON: \$ 21.58 /Gallon

3.031 FIRE PROTECTION DIESEL PUMP

See Page 17 of this estimate.

TOTAL 3.031 - \$/EA: \$ 127,064 /Each

3.032 FIRE PROTECTION ELECTRIC PUMP

See Page 18 of this estimate.

TOTAL 3.032 - \$/EA: \$ 66,780 /Each

3.00 SPECIAL REQUIREMENTS

3.00 SPECIAL REQUIREMENTS									
3.031 FIRE PROTECTION DIESEL PUMP	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
Note: Labor rate is a combined rate for plumber (\$90.19) and electrician (\$95.83).									
1,500 GPM diesel fire pump	1	EA	88954.00	88,954	76.190	76.19			
Jockey pump	1	EA	4665.00	4,665	8.000	8.00			
Exhaust ducting	1	LOT	785.00	785	4.000	4.00			
Fuel piping	50	LF	4.28	214	0.228	11.40			
Testing and certification	1	LOT	260.00	260	8.000	8.00			
SUBTOTAL HOURS:						107.59 HRS			
Premium Time	10.00%					10.76			
SUBTOTAL:				\$94,878	118.35 HRS	\$93.01	\$11,008	\$105,886	
Subcontractor's Overhead and Profit on Materials and Labor		20.00%	18,976				2,202	21,178	
TOTAL 3.031 FIRE PROTECTION DIESEL PUMP:									
\$ 127,064									

3.00 SPECIAL REQUIREMENTS

3.00 SPECIAL REQUIREMENTS									
3.032 FIRE PROTECTION ELECTRIC PUMP	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
Note: Labor rate is a combined rate for plumber (\$90.19) and electrician (\$95.83).									
<u>PLUMBING</u>									
1,500 GPM electric fire pump	1	EA	38637.00	38,637	64.000	64.00			
Jockey pump	1	EA	4665.00	4,665	8.000	8.00			
200 amp, non-fused disconnect switch	2	EA	691.00	1,382	4.500	9.00			
<u>ELECTRICAL</u>									
Electrical connections	2	EA	83.30	167	2.775	5.55			
1" diameter EMT conduit	50	LF	2.03	102	0.070	3.50			
#8 THHN copper	200	LF	1.00	200	0.010	2.00			
Testing and certification	1	LOT	260.00	260	8.000	8.00			
<i>SUBTOTAL HOURS:</i>						<u>100.05</u>	<i>HRS</i>		
Premium Time	10.00%					10.01			
<i>SUBTOTAL:</i>				<u>\$45,413</u>		<u>110.06</u>	<i>HRS</i>	<u>\$93.01</u>	<u>\$10,237</u>
Subcontractor's Overhead and Profit on Materials and Labor				20.00%	9,083			2,047	11,130
TOTAL 3.032 FIRE PROTECTION ELECTRIC PUMP:									\$ 66,780

3.00 SPECIAL REQUIREMENTS

3.00 SPECIAL REQUIREMENTS								TOTAL	
		MATERIAL/EQUIPMENT			LABOR			MATERIAL/EQUIP.	
3.033 FIRE PROTECTION MIST SYSTEM	Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR

Note: Labor rate is a combined rate for plumber (\$90.19) and electrician (\$95.83).

SITE WORK

Connect to existing water supply inside building	1	EA	413.00	413	2.500	2.50		
SUBTOTAL:				<u>\$413</u>		<u>2.50 HRS</u>	<u>\$93.01</u>	<u>\$233</u> <u>\$646</u>

FIRE PROTECTION (SUBCONTRACTOR)

Note: Mist fire protection is not appropriate for large areas of coverage.

Complete mist fire protection sprinkler system, including stainless steel piping, headend, and water storage

water storage	41,400	SF	21.92	907,488	0.100	4,140.00		
Design fee and commissioning	1	LOT	7800.00	7,800	24.000	24.00		
Testing	1	LOT			40.000	40.00		
SUBTOTAL HOURS:						<u>4,204.00</u>	HRS	
Premium Time	10.00%					420.40		
SUBTOTAL:				<u>\$915,288</u>		<u>4,624.40</u>	HRS	<u>\$93.01 \$430,115 \$1,345,403</u>

Subcontractor's Overhead and Profit on Materials and Labor

and Labor	20.00%	183,058	86,023	269,081
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TOTAL 3.033 FIRE PROTECTION MIST SYSTEM:

COST PER SQUARE FOOT:

GROSS FLOOR AREA:

\$ 1,615,130

\$ 39.01 /SF

41,400 SF

3.00 SPECIAL REQUIREMENTS

\$

3.04 WATER STORAGE

Site Preparation Allowance (400 SF)	\$ 7,179
Concrete Base With Footing - 12'0" Diameter (114 SF)	12,462
Fence (100 LF) and Gates (1 Each)	9,751
10,000 Gallon Polyethylene Tank	45,369
6" Tank Insulation From Manufacturer	25,387
2" Piping and Insulation (100 LF)	6,347

TOTAL FOR 10,000 GALLONS: \$ 106,495

TOTAL 3.04 - COST PER GALLON: \$ 10.65 /Gallon

3.05 CRAWL SPACE

Deduct Slab on Grade (40,400 SF)	-\$ 441,541
Excavation and Disposal (6,133 CY)	113,560
Concrete Topping (425 CY)*	347,099
Floor Deck and Structure (40,400 SF)**	4,281,203
Fire Protection Sprinklers (40,400 SF)	241,644
Electrical Lighting (180 Each)	145,390
Fire Alarm	35,971

TOTAL FOR 40,400 SF: \$ 4,723,326

TOTAL 3.05 - \$/SF: \$ 116.91 /SF

* See Concrete (Pile Foundation), Page 24 of this estimate.

** See Structural Ground Floor (Supported on Piles),
Pages 22 and 23 of this estimate.

3.00 SPECIAL REQUIREMENTS (Continued)

\$

3.06 PILE FOUNDATION WITH SUBFLOOR SYSTEM

Deduct Concrete Foundation and Slab	-\$ 1,136,658
Non-Refrigerated Steel Piles (122 Each) (See Pages 22 to 23)	1,704,340
Floor Deck, Structure, Concrete Topping, Soffit and Insulation (See Pages 24 to 26)	5,843,748
Decks, Ramp and Steps (See Pages 27 to 28)	938,132
Fire Protection Sprinklers (40,400 SF)	241,644
Electrical Lighting (180 Each)	145,390
Fire Alarm	35,971
TOTAL FOR 40,400 SF:	\$ 7,772,567
TOTAL 3.06 - \$/SF:	<u><u>\$ 192.39 /SF</u></u>

3.07 THERMOPILE FOUNDATION WITH SUBFLOOR SYSTEM

Deduct Concrete Foundation and Slab	-\$ 1,136,658
Steel Piles (122 Each), Thermoprobes (See Pages 29 to 30)	2,182,904
Floor Deck, Structure, Concrete Topping, Soffit and Insulation (See Pages 24 to 26)	5,843,748
Decks, Ramp and Steps (See Pages 27 to 28)	938,132
Fire Protection Sprinklers (40,400 SF)	241,644
Electrical Lighting (180 Each)	145,390
Fire Alarm	35,971
TOTAL FOR 40,400 SF:	\$ 8,251,131
TOTAL 3.07 - \$/SF:	<u><u>\$ 204.24 /SF</u></u>

3.00 SPECIAL REQUIREMENTS

3.06 PILE FOUNDATION

> Non-Refrigerated Steel Piles

	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
Mobilization/demobilization equipment (locally rented)	1	LOT	3500.00	3,500	118.000	118.00			
Equipment idle time	15	DAYS	930.00	13,950					
Auger drill 18" diameter holes for 12" piles, average 25'0" deep (106)	2,650	VLF			0.480	1,272.00			
Auger drill 18" diameter holes for 12" piles, average 30'0" deep (2)	60	VLF			0.480	28.80			
Auger drill 24" diameter hole for 16" piles, average 30'0" deep (14)	420	VLF			0.540	226.80			
Drilling equipment	24	DAYS	3286.00	78,864					
Steel piles and handling	273,000	LBS	2.24	611,520	0.010	2,730.00			
Install 12" diameter x 28'0" long piles	106	EA			10.300	1,091.80			
Install 12" diameter x 30'0" long piles	2	EA			11.035	22.07			
Install 16" diameter x 33'0" long piles	14	EA			12.800	179.20			
Crane rental	1	MO	29902.00	29,902					
Cut 12" diameter piles to elevations	108	EA			0.950	102.60			
Cut 16" diameter piles to elevations	14	EA			1.360	19.04			
Weld 12" diameter x 1/2" pile top plate	108	EA	137.00	14,796	1.190	128.52			
Weld 16" diameter x 1/2" pile top plate	14	EA	183.00	2,562	1.586	22.20			
Sand/slurry backfill around piles	90	CY	204.00	18,360	1.200	108.00			

NOTE: Subfloor system elsewhere.

SUBTOTAL HOURS:

6,049.03 HRS

3.00 SPECIAL REQUIREMENTS

3.06 PILE FOUNDATION

> Non-Refrigerated Steel Piles

	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
Premium Time	10.00%					604.90			
<i>SUBTOTAL:</i>				<i>\$773,454</i>		<i>6,653.93 HRS</i>	<i>\$97.21</i>	<i>\$646,829</i>	<i>\$1,420,283</i>
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			154,691				129,366	284,057

TOTAL 3.06 NON-REFRIGERATED STEEL PILES:

\$ 1,704,340

3.00 SPECIAL REQUIREMENTS

3.06 PILE FOUNDATION

> Floor Deck, Structure, Concrete Topping, Soffit and Insulation

3.06 PILE FOUNDATION > Floor Deck, Structure, Concrete Topping, Soffit and Insulation	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>CONCRETE</u>									
Concrete topping on deck	425	CY	228.00	96,900	1.400	595.00			
6"x6" - W1.4xW1.4 wire mesh	40,400	SF	0.59	23,836	0.004	161.60			
Cure and finish concrete	40,400	SF	0.36	14,544	0.025	1,010.00			
Edge form	2,540	LF	3.38	8,585	0.100	254.00			
Pump concrete	425	CY	63.00	26,775					
<i>SUBTOTAL CONCRETE:</i>				<i>\$170,640</i>		<i>2,020.60 HRS</i>	<i>\$87.33</i>	<i>\$176,459</i>	<i>\$347,099</i>
<u>EXTERIOR CLOSURE</u>									
6" metal stud framing	10,160	SF	2.72	27,635	0.043	436.88			
7/8" hat channel furring	15,420	SF	0.87	13,415	0.008	123.36			
1/2" plywood CDX AWW sheathing	10,160	SF	1.71	17,374	0.014	142.24			
2" rigid insulation	10,160	SF	2.33	23,673	0.009	91.44			
Metal siding panel, including flashings and trims	8,128	SF	11.77	95,667	0.080	650.24			
Phenolic resin panel	2,032	SF	28.00	56,896	0.147	298.70			
VaproShield weather barrier	2,032	SF	1.89	3,840	0.010	20.32			
High performance air barrier	10,160	SF	0.68	6,909	0.005	50.80			
6" R-19 insulation in stud wall cavity	10,160	SF	1.00	10,160	0.007	71.12			
10 mil vapor barrier	10,160	SF	0.38	3,861	0.002	20.32			

3.00 SPECIAL REQUIREMENTS

3.06 PILE FOUNDATION

> Floor Deck, Structure, Concrete Topping, Soffit and Insulation

3.06 PILE FOUNDATION					TOTAL				
> Floor Deck, Structure, Concrete Topping,	MATERIAL/EQUIPMENT				LABOR		MATERIAL/EQUIP.		
Soffit and Insulation	Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
SOFFIT									
2"x6" framing and nailers	61,300	LF	1.50	91,950	0.030	1,839.00			
3/4" CDX AWW plywood soffit	40,400	SF	2.44	98,576	0.040	1,616.00			
High performance air barrier	40,400	SF	0.68	27,472	0.005	202.00			
R-30 insulation	40,400	SF	1.50	60,600	0.008	323.20			
10 mil vapor barrier	40,400	SF	0.38	15,352	0.002	80.80			
Sealant	5,080	LF	0.40	2,032	0.024	121.92			
SUBTOTAL EXTERIOR CLOSURE AND SOFFIT:				\$555,412		6,088.34 HRS	\$89.17	\$542,897	\$1,098,309
STRUCTURAL GROUND FLOOR (SUPPORTED ON PILES)									
1 1/2"x20 gauge metal deck	40,400	SF	8.56	345,824	0.035	1,414.00			
W-beams	44,500	LBS	3.69	164,205	0.010	445.00			
Steel joists	300,000	LBS	7.44	2,232,000	0.011	3,300.00			
Tube steel bracing	20,000	LBS	4.11	82,200	0.025	500.00			
Angles and connections	20,000	LBS	4.01	80,200	0.025	500.00			
Test and inspection	1	LOT	2600.00	2,600					
Crane rental	2	MOS	30962.00	61,924					
SUBTOTAL:				\$2,968,953		6,159.00 HRS	\$97.21	\$598,716	

3.00 SPECIAL REQUIREMENTS

3.06 PILE FOUNDATION

> Floor Deck, Structure, Concrete Topping, Soffit and Insulation

	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		Rate	TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal			TOTAL	
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			593,791					119,743	
SUBTOTAL STRUCTURAL GROUND FLOOR:				\$3,562,744					\$718,459	\$4,281,203
 <u>PAINTING</u>										
Paint soffit	40,400	SF	0.95	38,380	0.020	808.00				
SUBTOTAL:				\$38,380		808.00 HRS		\$73.31	\$59,234	
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			7,676					11,847	
SUBTOTAL PAINTING:				\$46,056					\$71,081	\$117,137

TOTAL 3.06 FLOOR DECK, STRUCTURE, CONCRETE TOPPING, SOFFIT AND INSULATION:	\$ 5,843,748
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3.00 SPECIAL REQUIREMENTS

3.06 PILE FOUNDATION

> Decks, Ramp and Steps

3.00 SPECIAL REQUIREMENTS					TOTAL				
3.06 PILE FOUNDATION					MATERIAL/EQUIP.				
> Decks, Ramp and Steps					LABOR				
	Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
<u>ACCESS DECKS</u>									
W-beams, galvanized	22,755	LBS	4.76	108,314	0.011	250.31			
Connection, plates and bolts	2,276	LBS	5.08	11,562	0.020	45.52			
Connections to foundation wall	186	EA	145.00	26,970	1.420	264.12			
Patch galvanized surfaces	200	SF	1.90	380	0.100	20.00			
1 1/2" fiberglass walkway	2,280	SF	36.08	82,262	0.064	145.92			
42" galvanized steel guardrails	373	LF	240.00	89,520	0.455	169.72			
<u>RAMP</u>									
Note: Pile caps and cutting piles.									
W-beams, galvanized	6,470	LBS	4.76	30,797	0.011	71.17			
4"x12" treated plate, anchored	10	LF	12.57	126	0.145	1.45			
Miscellaneous connections and bolts	65	LBS	5.08	330	0.020	1.30			
Patch galvanized surfaces	50	SF	1.90	95	0.100	5.00			
1 1/2" fiberglass walkway	635	SF	36.08	22,911	0.064	40.64			
42" galvanized steel pipe guardrails	700	LF	240.00	168,000	0.455	318.50			
Sign	2	EA	96.00	192	0.678	1.36			
<u>EXTERIOR STAIR (4 EACH)</u>									
4"x12" treated plate anchored	24	LF	12.51	300	0.145	3.48			
Galvanized steel framing tube steel	5,600	LBS	5.18	29,008	0.020	112.00			

> Decks, Ramp and Steps

3.00 SPECIAL REQUIREMENTS									
3.06 PILE FOUNDATION									
> Decks, Ramp and Steps									
	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP.		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
<u>EXTERIOR STAIR (4 EACH) (Continued)</u>									
Fiberglass plank landings	270	SF	36.08	9,742	0.064	17.28			
12" wide fiberglass treads (64 each)	288	LF	41.28	11,889	0.154	44.35			
1 1/2" diameter wall rail	210	LF	66.60	13,986	0.235	49.35			
1 1/2"x42" galvanized pipe guardrail	24	LF	240.00	5,760	0.455	10.92			
<u>MISCELLANEOUS</u>									
Test and inspect	1	LOT	1300.00	1,300					
Crane rental	0.5	MOS	30962.00	15,481					
SUBTOTAL:				\$628,925		1,572.39 HRS	\$97.21	\$152,852	\$781,777
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			125,785				30,570	156,355
TOTAL 3.06 DECKS, RAMP AND STEPS:									\$ 938,132

3.00 SPECIAL REQUIREMENTS

3.07 THERMOPILES	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
Mobilization/demobilization equipment (locally rented)	1	LOT	3500.00	3,500	118.000	118.00			
Equipment idle time	15	DAYS	930.00	13,950					
Auger drill 18" diameter holes for 12" piles, average 25'0" deep (106)	2,650	VLF			0.480	1,272.00			
Auger drill 18" diameter holes for 12" piles, average 30'0" deep (2)	60	VLF			0.480	28.80			
Auger drill 24" diameter hole for 16" piles, average 30'0" deep (14)	420	VLF			0.540	226.80			
Drilling equipment	1	MO	30962.00	30,962					
Steel piles and handling	273,000	LBS	2.24	611,520	0.010	2,730.00			
Install 12" diameter x 28'0" long piles	106	EA			10.300	1,091.80			
Install 12" diameter x 30'0" long piles	2	EA			11.035	22.07			
Install 16" diameter x 33'0" long piles	14	EA			12.800	179.20			
Crane rental	1	MO	30962.00	30,962					
Cut 12" diameter piles to elevations	108	EA			0.950	102.60			
Cut 16" diameter piles to elevations	14	EA			1.360	19.04			
Weld 12" diameter x 1/2" pile top plate	108	EA	137.00	14,796	1.190	128.52			
Weld 16" diameter x 1/2" pile top plate	14	EA	183.00	2,562	1.586	22.20			
Install 2" diameter x 25'0" long thermoprobes to piles	108	EA	1433.00	154,764	4.200	453.60			

3.00 SPECIAL REQUIREMENTS

3.00 SPECIAL REQUIREMENTS									
3.07 THERMOPILES	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP.		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
Install 2" diameter x 30'0" long thermoprobes to piles	14	EA	1538.00	21,532	4.350	60.90			
Charge piles with refrigerant and test	122	EA	386.00	47,092	3.000	366.00			
Sand/slurry backfill around piles	90	CY	204.00	18,360	1.200	108.00			
Install thermistors and monitoring devices to 50% of piles	61	EA	829.00	50,569	5.900	359.90			
Freeze back equipment	1	LOT	714.00	714	28.000	28.00			
Freeze back crew travel cost	4	RT	1196.00	4,784					
Freeze back crew per diem	80	MD	382.00	30,560					
NOTE: Subfloor system elsewhere.									
SUBTOTAL HOURS:						7,317.43 HRS			
Premium Time	10.00%					731.74			
SUBTOTAL:				\$1,036,627		8,049.17 HRS	\$97.21	\$782,460	\$1,819,087
Subcontractor's Overhead and Profit on Materials and Labor		20.00%						156,492	363,817
				207,325					
TOTAL 3.07 THERMOPILE FOUNDATIONS:									\$ 2,182,904

3.00 SPECIAL REQUIREMENTS

3.00 SPECIAL REQUIREMENTS									
3.08 DEMOLITION OF EXISTING BUILDING	Qty	MATERIAL/EQUIPMENT			Hours	LABOR	TOTAL MATERIAL/EQUIP.		
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	& LABOR
<u>DEMOLISH CONCRETE/WOOD BUILDING MATERIALS</u>									
Demolish wood roof assembly	44,170	SF			0.039	1,722.63			
Demolish exterior wood walls	23,665	SF			0.052	1,230.58			
Demolish wood walls/partitions	45,000	SF			0.029	1,305.00			
Demolish wood floor assembly	1,000	SF			0.023	23.00			
Demolish concrete floor	40,400	SF			0.075	3,030.00			
Remove doors and windows	220	EA			0.600	132.00			
Remove concrete footings and foundation walls	845	SF			1.565	1,322.43			
Demolish mechanical	41,400	SF			0.080	3,312.00			
Demolish electrical	41,400	SF			0.040	1,656.00			
Load and haul	1,550	TONS	6.65	10,308	0.138	213.90			
Dump charge	1,550	TONS	74.36	115,258	0.090	139.50			
SUBTOTAL DEMOLISH CONCRETE/WOOD BUILDING MATERIALS:				\$125,566		14,087.04 HRS	\$90.22	\$1,270,933	\$1,396,499
<u>SITE WORK</u>									
Type 2 gravel leveling pad, compacted, 4" minus	2,995	CY	24.46	73,258	0.105	314.48			
4" topsoil	611	CY	42.00	25,662	0.110	67.21			
Lawn seed mix	50	MSF	257.00	12,850	3.680	184.00			

3.00 SPECIAL REQUIREMENTS

3.00 SPECIAL REQUIREMENTS										TOTAL
3.08 DEMOLITION OF EXISTING BUILDING	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		MATERIAL/EQUIP.		& LABOR
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL		
<u>SITE WORK (Continued)</u>										
2-year landscape and maintenance warranty	1	LOT	5200.00	5,200						
SUBTOTAL SITE WORK:										
				\$116,970		565.69 HRS	\$90.49	\$51,189		\$168,159

TOTAL 3.08 DEMOLITION OF EXISTING BUILDING:
COST PER SQUARE FOOT:
GROSS FLOOR AREA:

\$ 1,564,658
\$ 37.79 /SF
41,400 SF

3.00 SPECIAL REQUIREMENTS

3.09 ABATEMENT OF EXISTING BUILDING	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
Mobilization and demobilization of personnel and equipment	1	LOT	1820.00	1,820	40.000	40.00			
Abatement equipment	1	LOT	3224.00	3,224	8.000	8.00			
Personnel decontamination station	2	EA	1326.00	2,652	35.000	70.00			
Regulated work area	2	EA	832.00	1,664	20.000	40.00			
PCM test	16	EA	36.00	576	1.000	16.00			
TCLP test	1	EA	3120.00	3,120					
Air monitoring	24	EA	193.00	4,632					
Work plan	1	EA	1768.00	1,768					
<u>ASBESTOS</u>									
Remove gypboard wall board	50,000	SF			0.042	2,100.00			
Remove roofing	44,170	SF			0.035	1,545.95			
Remove vinyl flooring	9,510	SF			0.042	399.42			
Remove ceiling tiles	1,000	SF			0.032	32.00			
Remove ceiling gypboard	22,000	SF			0.045	990.00			
Remove ACM boiler stack	22	LF			0.620	13.64			
Remove ACM pipe fitting	1,500	EA			0.730	1,095.00			
Remove sink and ACM undercoating	20	EA			1.550	31.00			
Vacuum clean area	41,400	SF	0.06	2,484	0.005	207.00			

3.00 SPECIAL REQUIREMENTS

3.00 SPECIAL REQUIREMENTS									
3.09 ABATEMENT OF EXISTING BUILDING	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>LEAD PAINT</u>									
Doors and frames	84	EA			1.000	84.00			
Sealed container with lead waste placed in drum	1	EA	83.00	83	1.000	1.00			
<u>PCBs</u>									
Ballast in fixtures	660	EA			0.520	343.20			
Place ballast in drums	22	EA	83.00	1,826	1.000	22.00			
<u>Miscellaneous</u>									
Load and haul	192	TONS	7.80	1,498	0.140	26.88			
Dispose materials	192	TONS	175.00	33,600	0.100	19.20			
Inspection of materials at dump	20	EA			1.000	20.00			
Move drum to landfill out of state	23	EA	1030.00	23,690	1.000	23.00			
SUBTOTAL:				\$82,637	7,127.29 HRS	\$81.64	\$581,872	\$664,509	
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			16,527				116,374	132,901
TOTAL 3.09 ABATEMENT OF EXISTING BUILDING:								\$ 797,410	
COST PER SQUARE FOOT:								\$ 19.26 /SF	
GROSS FLOOR AREA:								41,400 SF	

3.00 SPECIAL REQUIREMENTS

3.10 SEWAGE LAGOON CLOSEOUT	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
Sewage lagoon closeout plan and post closeout monitoring plan	1	EA	7800.00	7,800					
Removal of liner	3,333	SY			0.030	99.99			
Local fill in place	4,200	CY	24.46	102,732	0.105	441.00			
Revegetation	50	MSF	257.00	12,850	3.680	184.00			
Post closure monitoring and reporting	5	EA	1560.00	7,800	40.000	200.00			
SUBTOTAL:				\$131,182		924.99	\$90.49	\$83,702	\$214,884
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			26,236				16,740	42,976

TOTAL 3.10 SEWAGE LAGOON CLOSEOUT:
COST PER SQUARE FOOT:
GROSS AREA:

\$ 257,860
\$ 8.60 /SF
30,000 SF

4.00 SITE WORK

4.03 SITE IMPROVEMENTS

4.00 SITE WORK						TOTAL	
4.03 SITE IMPROVEMENTS						MATERIAL/EQUIP.	
4.031 Construct Paved Parking Area						LABOR	
	Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate
							TOTAL
							& LABOR
18" classified fill in place	607	CY	24.46	14,847	0.105	63.74	
4" D1 or equivalent base course	117	CY	39.63	4,637	0.125	14.63	
2" asphalt paving	8,400	SF	1.90	15,960	0.016	134.40	
Joint to existing	100	LF	2.50	250	0.046	4.60	
Mark parking stall	30	EA	6.36	191	0.175	5.25	
Mark handicapped accessible stall	3	EA	37.10	111	0.537	1.61	
Signage	3	EA	312.00	936	4.370	13.11	
Curbs	372	LF	23.00	8,556	0.180	66.96	
SUBTOTAL HOURS:						304.30	HRS
Premium Time	10.00%					30.43	
SUBTOTAL:				\$45,488	334.73	HRS	\$90.49
Subcontractor's Overhead and Profit on Materials and Labor				20.00%	9,098		6,058
							15,156

TOTAL 4.031 CONSTRUCT PAVED PARKING AREA:

COST PER STALL:

NUMBER OF STALLS:

\$ 90,934

\$ 3,031 /EA

30 EA

4.00 SITE WORK

4.03 SITE IMPROVEMENTS

4.032 Construct Unpaved Parking Area	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
18" classified fill in place	607	CY	24.46	14,847	0.105	63.74			
4" surface course compacted in place	117	CY	39.63	4,637	0.125	14.63			
Signage at handicapped accessible stall	3	EA	318.00	954	4.370	13.11			
<i>SUBTOTAL HOURS:</i>						<u>91.48 HRS</u>			
Premium Time	10.00%					9.15			
<i>SUBTOTAL:</i>				<u>\$20,438</u>		<u>100.63 HRS</u>	<u>\$96.83</u>	<u>\$9,744</u>	<u>\$30,182</u>
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			4,088				1,949	6,037

TOTAL 4.032 CONSTRUCT UNPAVED PARKING AREA:
COST PER SQUARE FOOT:
GROSS FLOOR AREA:

\$ 36,219
\$ 4.42 /SF
8,200 SF

4.00 SITE WORK

4.03 SITE IMPROVEMENTS

4.033 On Grade Boardwalk

	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
Rough grade subgrade	1,000	SF			0.004	4.00			
3"x12" pressure treated wood sleepers, 48" o/c	950	LF	11.44	10,868	0.050	47.50			
3"x12" double stacked timber edge sleepers, each side	960	LF	11.44	10,982	0.050	48.00			
3"x12" multi-stacked timber edge sleepers at overpasses (17)	830	LF	11.44	9,495	0.053	43.99			
5/16"x6'0" sleeper anchor cables with duckbill anchors, 36" o/c each side	190	EA	160.00	30,400	1.500	285.00			
3"x12" decking with 1/4" gaps screwed to timber supports with 3/8"x4" stainless steel lag bolts and washers	2,500	SF	14.66	36,650	0.088	220.00			
Raised boardwalk overpasses at utility crossings (3)	350	SF	11.90	4,165	0.125	43.75			
Snow machine crossings (2)	100	SF	11.90	1,190	0.125	12.50			
SUBTOTAL:				\$103,750		704.74 HRS	\$87.33	\$61,545	\$165,295

TOTAL 4.033 ON GRADE BOARDWALK:

\$ 165,295

COST PER SQUARE FOOT:

\$ 66.12 /SF

GROSS FLOOR AREA:

2,500 SF

4.00 SITE WORK

4.03 SITE IMPROVEMENTS

4.034 Elevated Boardwalk	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
2" square x 10'0" helical pipe pile	25	EA	989.00	24,725	4.280	107.00			
Cut pile to elevation	25	EA	25.20	630	1.300	32.50			
5 1/8"x12" pile cap beam bracket	25	EA	331.00	8,275	0.560	14.00			
Epoxy paint exposed piles	50	SF	2.43	122	0.036	1.80			
2"x12" pressure treated deck edge	833	LF	3.24	2,699	0.043	35.82			
4"x10" pressure treated joists	625	LF	8.63	5,394	0.030	18.75			
4"x10" joist hangers	208	EA	8.82	1,835	0.054	11.23			
5 1/8"x12" pressure treated glulam	833	LF	39.62	33,003	0.123	102.46			
3"x12" decking	2,500	SF	11.44	28,600	0.088	220.00			
SUBTOTAL:				\$105,283		543.56 HRS	\$97.21	\$52,839	\$158,122

TOTAL 4.034 ELEVATED BOARDWALK:
COST PER SQUARE FOOT:
GROSS FLOOR AREA:

\$ 158,122
\$ 63.25 /SF
2,500 SF

4.00 SITE WORK

4.03 SITE IMPROVEMENTS

4.035-A Large Play Equipment with
Fall Protection

	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		Rate	TOTAL		TOTAL MATERIAL/EQUIP. & LABOR
		Unit	Rate	TOTAL		Subtotal			TOTAL		
Large play structure (750 SF use zone)	1	EA	78885.00	78,885	185.000	185.00					
SUBTOTAL:				\$78,885		185.00 HRS		\$87.33	\$16,156		\$95,041

TOTAL 4.034-A LARGE PLAY EQUIPMENT WITH FALL PROTECTION:

\$ 95,041 EA

4.00 SITE WORK

4.03 SITE IMPROVEMENTS

4.035-B Medium Play Equipment with
Fall Protection

	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		Rate	TOTAL		TOTAL MATERIAL/EQUIP. & LABOR
		Unit	Rate	TOTAL		Subtotal			TOTAL		
Medium play structure (300 SF use zone)	1	EA	36636.00	36,636	96.000	96.00					
SUBTOTAL:				\$36,636		96.00 HRS		\$87.33	\$8,384		\$45,020

TOTAL 4.034-B MEDIUM PLAY EQUIPMENT WITH FALL PROTECTION:

\$ 45,020 EA

4.00 SITE WORK									
4.03 SITE IMPROVEMENTS									
4.035-C Small Equipment with Fall Protection	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	& LABOR
Small play structure (100 SF use zone)	1	EA	2621.00	2,621	8.000	8.00			
SUBTOTAL:				\$2,621		8.00 HRS	\$87.33	\$699	\$3,320

TOTAL 4.034-C SMALL PLAY EQUIPMENT WITH FALL PROTECTION:								\$ 3,320 EA	
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4.00 SITE WORK									
4.03 SITE IMPROVEMENTS									
4.035-D 4-Bay Swing Set									
	Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	TOTAL MATERIAL/EQUIP. & LABOR
4-bay swing set	1	EA	3980.00	3,980	12.000	12.00			
SUBTOTAL:				\$3,980		12.00 HRS	\$87.33	\$1,048	\$5,028

TOTAL 4.034-C SMALL PLAY EQUIPMENT WITH FALL PROTECTION:								\$ 5,028 EA	
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4.00 SITE WORK

4.03 SITE IMPROVEMENTS

4.035-E Playground Safety Surfacing	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
Playground safety surfacing	5,000	SF	23.70	118,500	0.055	275.00			
Prep subgrade	5,000	SF			0.004	20.00			
SUBTOTAL:				\$118,500		295.00 HRS	\$90.49	\$26,695	\$145,195
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			23,700				5,339	29,039

TOTAL 4.035-E PLAYGROUND SAFETY SURFACING:

\$ 174,234

COST PER SQUARE FOOT:

\$ 34.85 /SF

GROSS FLOOR AREA:

5,000 SF

4.00 SITE WORK

4.03 SITE IMPROVEMENTS

4.036-A - Play Deck on Grade	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
Grub off 6" organics and dispose	60	CY	2.88	173	0.090	5.40			
Geotechnical fabric	411	SY	1.53	629	0.016	6.58			
24" select fill	332	CY	24.46	8,121	0.105	34.86			
Treated lumber play deck	3,200	SF	54.00	172,800	0.180	576.00			
10'0" chainlink fence	240	LF	87.00	20,880	0.270	64.80			
Man gate	2	EA	1337.00	2,674	5.000	10.00			
Basketball back stop assembly	2	EA	3916.00	7,832	19.700	39.40			
Game markings	1	LOT	503.00	503	16.000	16.00			
SUBTOTAL:				\$213,612		753.04 HRS	\$90.49	\$68,143	\$281,755

TOTAL 4.036-A PLAY DECK ON GRADE:
COST PER SQUARE FOOT:
GROSS FLOOR AREA:

\$ 281,755
\$ 88.05 /SF
3,200 SF

4.00 SITE WORK

4.03 SITE IMPROVEMENTS

4.036-B - Play Deck on Helical Piles	Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
<u>SUBSTRUCTURE</u>									
2" square x 10'0" helical pipe pile	42	EA	1043.00	43,806	4.280	179.76			
Cut 2" square pile to elevation	42	EA	25.00	1,050	1.300	54.60			
5 1/8"x12" pile cap beam bracket	42	EA	331.00	13,902	0.560	23.52			
SUBTOTAL:				\$58,758	257.88 HRS	\$97.21	\$25,069	\$83,827	
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			11,752				5,014	16,766
<u>PLAY DECK</u>									
Epoxy paint exposed piles	90	SF	2.43	219	0.036	3.24			
Play surface tiles	4,436	SF	23.70	105,133	0.055	243.98			
2"x12" pressure treated deck edging	277	LF	3.24	897	0.043	11.91			
4"x10" pressure treated joists, 48" o/c	1,197	LF	8.63	10,330	0.030	35.91			
4"x10" joist hanger	190	EA	8.82	1,676	0.054	10.26			
5 1/8"x12" pressure treated glulam beam	453	LF	39.62	17,948	0.123	55.72			
3"x12" decking	4,436	SF	11.44	50,748	0.088	390.37			
SUBTOTAL:				\$186,951	751.39 HRS	\$87.33	\$65,619	\$252,570	
TOTAL 4.036-B PLAY DECK ON HELICAL PILES: COST PER SQUARE FOOT: GROSS FLOOR AREA:									\$ 353,163 \$ 79.61 /SF 4,436 SF

4.00 SITE WORK

4.03 SITE IMPROVEMENTS

4.037-A Landscaping with Truck Access	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		Rate	TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal			TOTAL	
Landscaping	10,000	SF	5.35	53,500	0.040	400.00				
<i>SUBTOTAL HOURS:</i>						<u>400.00</u>	<i>HRS</i>			
Premium Time	10.00%					40.00				
<i>SUBTOTAL:</i>				<u>\$53,500</u>		<u>440.00</u>	<i>HRS</i>	<u>\$90.49</u>	<u>\$39,816</u>	<u>\$93,316</u>
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			10,700					7,963	18,663

TOTAL 4.037-A LANDSCAPING WITH TRUCK ACCESS:

\$ 111,979

COST PER SQUARE FOOT:

\$ 11.20 /SF

GROSS AREA:

10,000 SF

4.00 SITE WORK

4.03 SITE IMPROVEMENTS

4.037-B Landscaping with Barge Access	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		Rate	TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal			TOTAL	
Landscaping	10,000	SF	7.14	71,400	0.040	400.00				
<i>SUBTOTAL HOURS:</i>						<u>400.00</u>	<i>HRS</i>			
Premium Time	10.00%					40.00				
<i>SUBTOTAL:</i>				<u>\$71,400</u>		<u>440.00</u>	<i>HRS</i>	<u>\$90.49</u>	<u>\$39,816</u>	<u>\$111,216</u>
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			14,280					7,963	22,243

TOTAL 4.037-B LANDSCAPING WITH BARGE ACCESS:

\$ 133,459

COST PER SQUARE FOOT:

\$ 13.35 /SF

GROSS AREA:

10,000 SF

4.00 SITE WORK

4.03 SITE IMPROVEMENTS

4.00 SITE WORK									
4.03 SITE IMPROVEMENTS									
4.038 Sports Field/Track	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
Prep subgrade	176,455	SF			0.003	529.37			
18" select fill	2,303	CY	24.46	56,331	0.105	241.82			
6" topsoil at field	2,500	CY	42.00	105,000	0.110	275.00			
Athletic seed mix	135	MSF	294.00	39,690	3.680	496.80			
6" base course at track	770	CY	39.63	30,515	0.125	96.25			
Geotech fabric	4,606	SY	1.95	8,982	0.016	73.70			
Asphalt paving at track	41,455	SF	1.90	78,765	0.016	663.28			
Pavement markings at track	10,864	LF	0.95	10,321	0.018	195.55			
Allowance for storm water drainage	1	LOT	22598.00	22,598	200.000	200.00			
SUBTOTAL HOURS:						2,771.77 HRS			
Premium Time	10.00%					277.18			
SUBTOTAL:				\$352,202	3,048.95 HRS		\$90.49	\$275,899	\$628,101
Subcontractor's Overhead and Profit on Materials and Labor				20.00%	70,440			55,180	125,620
TOTAL 4.038 SPORTS FIELD/TRACK:									\$ 753,721
COST PER SQUARE FOOT:									\$ 4.27 /SF
GROSS AREA:									176,455 SF

4.00 SITE WORK

4.041 COVERED PLAY AREA	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
Concrete substructure	3,200	SF	17.64	56,448	0.187	598.40			
Slab on grade	3,200	SF	6.57	21,024	0.066	211.20			
Tube steel columns/wood roof structure	3,400	SF	17.09	58,106	0.115	391.00			
Roofing and flashings	3,400	SF	14.25	48,450	0.141	479.40			
Lighting, including allowance for conduit and conductor	28	EA	821.00	22,988	2.750	77.00			
SUBTOTAL HOURS:						<u>1,757.00</u>	<i>HRS</i>		
Premium Time	10.00%					175.70			
SUBTOTAL:				<u>\$207,016</u>		<u>1,932.70</u>	<i>HRS</i>	<u>\$87.33</u>	<u>\$168,783</u>
									<u>\$375,799</u>

TOTAL 4.041 COVERED PLAY AREA:
COST PER SQUARE FOOT:
GROSS AREA:

\$ 375,799
\$ 117.44 /SF
3,200 SF

4.00 SITE WORK

4.042 UTILITY BUILDING BUILT IN PLACE	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
Concrete substructure	800	SF	17.64	14,112	0.187	149.60			
Slab on grade	800	SF	6.57	5,256	0.066	52.80			
Tube steel columns/wood roof structure	840	SF	19.09	16,036	0.115	96.60			
Exterior closure	1,200	SF	30.26	36,312	0.223	267.60			
Roofing and flashings	840	SF	14.25	11,970	0.141	118.44			
Interior construction (minimal)	800	SF	5.15	4,120	0.008	6.40			
Plumbing	800	SF	5.40	4,320	0.045	36.00			
HVAC (heating and ventilation only)	800	SF	21.20	16,960	0.065	52.00			
Service and distribution	400	AMPS	29.80	11,920	0.210	84.00			
Lighting and power	800	SF	11.07	8,856	0.138	110.40			
Special systems	800	SF	2.65	2,120	0.027	21.60			
SUBTOTAL HOURS:						995.44 HRS			
Premium Time	10.00%					99.54			
SUBTOTAL:				\$131,982		1,094.98 HRS	\$91.12	\$99,775	\$231,757

TOTAL 4.042 UTILITY BUILDING BUILT IN PLACE:
COST PER SQUARE FOOT:
GROSS FLOOR AREA:

\$ 231,757
\$ 289.70 /SF
800 SF

4.00 SITE WORK

4.043 PILE SUPPORTED DECK STRUCTURE	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
12" diameter x 28'0" steel pile	24	EA	3873.00	92,952	29.930	718.32			
Galvanized W-steel beams/joists framing at decks, stairs, and ramp	23,855	LBS	4.76	113,550	0.026	620.23			
Miscellaneous connections, plates, etc. (12.50%)	2,980	LBS	5.08	15,138	0.028	83.44			
1 1/2" deep fiberglass bar grating at decks	1,574	SF	36.08	56,790	0.064	100.74			
1 1/2" deep grip strut ramp decking (1)	560	SF	35.20	19,712	0.064	35.84			
1 1/2" deep grip strut stair treads (6)	428	SF	38.09	16,303	0.064	27.39			
42" high x 1 1/2"x1 1/2" galvanized tube steel guardrail with 3 3/4" mesh infill panels at ramps and decks	266	LF	240.00	63,840	0.455	121.03			
42" high x 1 1/2"x1 1/2" galvanized tube steel guardrail with 3 3/4" mesh infill panels at stairs	164	LF	240.00	39,360	0.455	74.62			
SUBTOTAL HOURS:						1,781.61 HRS			
Premium Time	10.00%					178.16			
SUBTOTAL:				\$417,645		1,959.77 HRS	\$97.21	\$190,509	\$608,154

TOTAL 4.043 PILE SUPPORTED DECK STRUCTURE:
COST PER SQUARE FOOT:
GROSS FLOOR AREA:

\$ 608,154
\$ 237.37 /SF
2,562 SF

4.05 SITE UTILITIES

4.051 WATER MAIN	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
Trench, backfilling and tape	300	LF	13.12	3,936	0.210	63.00			
4" diameter pipe and fittings, mechanical joint	300	LF	113.00	33,900	0.300	90.00			
Fire hydrant, 8'0" depth	1	EA	3630.00	3,630	27.250	27.25			
Valve, valve box and marker, 10'0" deep	1	EA	1425.00	1,425	3.850	3.85			
Connect to existing	1	EA	413.00	413	7.240	7.24			
Testing and cleaning	1	LOT	156.00	156	16.000	16.00			
SUBTOTAL:				\$43,460		207.34 HRS	\$90.49	\$18,762	\$62,222
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			8,692				3,752	12,444

TOTAL 4.051 WATER MAIN:
COST PER LINEAR FOOT:
TOTAL PIPE LENGTH:

\$ 74,666
\$ 248.89 /LF
300 LF

4.05 SITE UTILITIES

4.052 SEWER MAIN	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
Trench, backfilling and tape	300	LF	13.12	3,936	0.210	63.00			
6" diameter pipe and fittings	300	LF	87.45	26,235	0.330	99.00			
Manhole	1	EA	10229.00	10,229	30.000	30.00			
Connection to existing	1	EA	413.00	413	3.000	3.00			
Cleanout	1	EA	667.00	667	1.150	1.15			
Testing and cleaning	1	LOT	52.00	52	8.000	8.00			
SUBTOTAL:				\$41,532		204.15 HRS	\$90.49	\$18,474	\$60,006
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			8,306				3,695	12,001

TOTAL 4.052 SEWER MAIN:
COST PER LINEAR FOOT:
TOTAL PIPE LENGTH:

\$ 72,007
\$ 240.02 /LF
300 LF

4.05 SITE UTILITIES

4.053 UNDERGROUND STORM WATER SYSTEM

4.05 SITE UTILITIES		MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP.	
4.053 UNDERGROUND STORM WATER SYSTEM	Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL & LABOR
Grade site to drain	20,000	SF			0.004	80.00		
48"x72" deep storm water manhole with inlet grates	4	EA	10229.00	40,916	30.000	120.00		
12" diameter CPEP storm drains	340	LF	26.50	9,010	0.264	89.76		
12" couplings and joints	18	EA	57.00	1,026	1.600	28.80		
Connection to manhole	10	EA	58.00	580	1.070	10.70		
Trenching and backfill	446	CY	13.12	5,852	0.210	93.66		
Bedding material	78	CY	48.00	3,744	0.190	14.82		
6" PVC marker tape	337	LF	0.34	115	0.004	1.35		
Leak testing	1	LOT	78.00	78	3.570	3.57		
SUBTOTAL HOURS:						442.66 HRS		
Premium Time	10.00%					44.27		
SUBTOTAL:				\$61,321	486.93 HRS	\$90.49	\$44,062	\$105,383
Subcontractor's Overhead and Profit on Materials and Labor		20.00%	12,264				8,812	21,076
TOTAL 4.053 UNDERGROUND STORM WATER SYSTEM:								\$ 126,459
COST PER SQUARE FOOT:								\$ 6.32 /SF
GROSS AREA:								20,000 SF

4.05 SITE UTILITIES

4.054 PUMPED SANITARY SEWER SYSTEM	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
Modular lift station	1	EA	10598.00	10,598	22.000	22.00			
Grinder pump	1	EA	12149.00	12,149	26.000	26.00			
Power to lift station and grinder	1	EA	1658.00	1,658	19.500	19.50			
Alarms, switches, etc.	1	LOT	1415.00	1,415	10.000	10.00			
Trenching and backfill	231	CY	13.12	3,031	0.210	48.51			
Bedding	83	CY	48.30	4,009	0.190	15.77			
2" diameter force main in arctic pipe	250	LF	67.00	16,750	0.700	175.00			
Butt fusion joints	17	EA	262.00	4,454	1.270	21.59			
Cleanout	4	EA	1081.00	4,324	4.000	16.00			
Test	1	LOT	78.00	78	4.500	4.50			
SUBTOTAL HOURS:						358.87 HRS			
Premium Time	10.00%					35.89			
SUBTOTAL:				\$58,466		394.76 HRS	\$90.49	\$35,722	\$94,188
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			11,693				7,144	18,837
TOTAL 4.054 PUMPED SANITARY SEWER SYSTEM:								\$ 113,025	
COST PER LINEAR FOOT:								\$ 452.10 /LF	
TOTAL PIPE LENGTH:								250 LF	

\$ 28,699 EA

4.05 SITE UTILITIES

4.05 SITE UTILITIES						TOTAL				
4.056 PRE-PACKAGED WATER TREATMENT	Qty	MATERIAL/EQUIPMENT			LABOR		MATERIAL/EQUIP.			
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR	
Note: The cost indicated is a minimum cost. The unit represented by this cost will serve 50 to 250 people.										
Substructure for pre-packaged unit	1,200	SF	22.05	26,460	0.260	312.00				
Packaged water treatment system suitable for 50 to 250 students	1	EA	977691.00	977,691	3350.000	3,350.00				
SUBTOTAL HOURS:						3,662.00	HRS			
Premium Time	10.00%					366.20				
SUBTOTAL:				\$1,004,151		4,028.20	HRS	\$93.01	\$374,663	\$1,378,814
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			200,830					74,933	275,763

TOTAL 4.056 PRE-PACKAGED WATER TREATMENT:

\$ 1,654,577 EA

TOTAL 4.057 UTILIDOR:	\$ 285,630
COST PER LINEAR FOOT:	\$ 1,142.52 /LF
TOTAL LENGTH:	250 LF

4.06 BULK FUEL STORAGE

	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
5,000 gallon double wall tank	1	EA	59360.00	59,360	11.000	11.00			
Leak detection system	1	LOT	9306.00	9,306	6.500	6.50			
Testing oil	500	GALS	4.26	2,130					
4'0"x8'0" concrete pad	1	EA	1378.00	1,378	7.000	7.00			
1" diameter piping and fittings	140	LF	4.45	623	0.228	31.92			
Trench, backfilling and tape	100	LF	7.08	708	0.100	10.00			
6'0" chainlink fence	100	LF	55.64	5,564	0.200	20.00			
6'0"x10'0" gate	1	EA	2033.00	2,033	3.800	3.80			
Testing	1	LOT			7.000	7.00			
SUBTOTAL:				\$81,102		97.22 HRS	\$90.49	\$8,797	\$89,899
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			16,220				1,759	17,979

TOTAL 4.06 BULK FUEL STORAGE:

COST PER GALLON:

TOTAL GALLONS:

\$ 107,878

\$ 21.58 /GAL

5,000 GAL

4.06 BULK FUEL STORAGE

4.061 REMOVE BULK FUEL STORAGE TANKS	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
Drain and transfer fuel from existing tank	5,000	GAL	0.42	2,100	0.006	30.00			
Remove sludge	1	EA			2.000	2.00			
Clean and inert 5,000 gallon tank	1	EA	312.00	312	12.000	12.00			
Demolish 5,000 gallon tank	1	EA			16.000	16.00			
Transport demolished tank to disposal	1	EA			22.000	22.00			
SUBTOTAL:				\$2,412		82.00 HRS	\$90.49	\$7,420	\$9,832
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			482				1,484	1,966

TOTAL 4.061 REMOVE BULK FUEL STORAGE TANKS:
COST PER GALLON:
TOTAL GALLONS:

\$ 11,798
\$ 2.36 /GAL
5,000 GAL

4.08 SITE LIGHTING

	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
8" diameter x 15'0" extra strong driven steel pipe pile foundation with welded top	4	EA	2156.00	8,624	12.000	48.00			
24" diameter x 36" concrete collar at base	4	EA	520.00	2,080	2.750	11.00			
6" square x 25'0" steel pole mounted to pile cap	4	EA	2961.00	11,844	9.900	39.60			
LED fixture with mounting arm	4	EA	1404.00	5,616	3.000	12.00			
Trench, tape, and backfilling	600	LF	7.08	4,248	0.100	60.00			
1" diameter PVC conduit	650	LF	2.56	1,664	0.032	20.80			
#10 XHHW wiring	2,600	LF	0.58	1,508	0.011	28.60			
SUBTOTAL HOURS:						<u>220.00</u>	HRS		
Premium Time	10.00%					22.00			
SUBTOTAL:				<u>\$35,584</u>		<u>242.00</u>	HRS	<u>\$95.83</u>	<u>\$23,191</u>
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			7,117				4,638	11,755
TOTAL 4.08 SITE LIGHTING:								\$ 70,530	
COST PER FIXTURE:								\$ 17,632.50 /EA	
TOTAL FIXTURES:								4 EA	

4.09 SEPTIC TANK/LEACH FIELD									
	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
5,000 gallon utility septic tank	1	EA	24168.00	24,168	24.700	24.70			
Excavation	1,250	CY			0.050	62.50			
2" polyurethane foam insulation	750	SF	2.33	1,748	0.008	6.00			
6" diameter HDPE piping	300	LF	16.00	4,800	0.105	31.50			
Two-way cleanout	3	EA	646.00	1,938	6.000	18.00			
Septic field risers	30	LF	8.95	269	0.090	2.70			
6" monitoring well fitting, solid plug	8	EA	43.00	344	0.250	2.00			
Select backfill compacted in place	2,100	CY	24.46	51,366	0.160	336.00			
Backfill sand bedding	150	CY	49.77	7,466	0.080	12.00			
SUBTOTAL HOURS:						495.40 HRS			
Premium Time	10.00%					49.54			
SUBTOTAL:				\$92,099	544.94 HRS	\$90.49	\$49,312	\$141,411	
Subcontractor's Overhead and Profit on Materials and Labor	20.00%					18,420		9,862	28,282
TOTAL 4.09 SEPTIC TANK/LEACH FIELD:									\$ 169,693 EA

4.09 SEPTIC TANK/LEACH FIELD

4.09 SEPTIC TANK/LEACH FIELD									
4.091 SEWAGE LAGOON	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
Chainlink fence	1,000	LF	87.74	87,740	0.270	270.00			
Recovery station construction	1	EA	26600.00	26,600	187.000	187.00			
Earthwork equipment	120	HRS	318.00	38,160					
Excavate to subgrade	2,222	CY	3.15	6,999	0.150	333.30			
Grade site for berms	7,000	SF			0.005	35.00			
4" geoweb stacked over native fill	30,000	SF	3.18	95,400	0.020	600.00			
Excavate and spread native fill to form berms, including compaction	1,200	CY	12.60	15,120	0.277	332.40			
Form berm slopes and grade tops	25,000	SF			0.005	125.00			
Compaction testing	20	EA	239.00	4,780					
SUBTOTAL HOURS:					1,882.70 HRS				
Premium Time	10.00%					188.27			
SUBTOTAL:				\$274,799	2,070.97 HRS	\$90.49	\$187,402	\$462,201	
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			54,960				37,480	92,440
TOTAL 4.091 SEWAGE LAGOON: COST PER PERSON: AVERAGE NUMBER OF PEOPLE:									\$ 554,641 \$ 3,698 /PP 150 PP

4.09 SEPTIC TANK/LEACH FIELD

**4.092 PRE-PACKAGED WASTE WATER
TREATMENT**

	Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	TOTAL MATERIAL/EQUIP. & LABOR
Note: The cost indicated is a minimum cost. The unit represented by this cost will serve 50 to 250 people.									
Substructure	1,350	SF	22.04	29,754	0.260	351.00			
Modular waste water treatment facility	1	EA	847841.00	847,841	3125.000	3,125.00			
SUBTOTAL HOURS:						3,476.00	HRS		
Premium Time	10.00%					347.60			
SUBTOTAL:				\$877,595		3,823.60	HRS	\$90.49	\$345,998
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			175,519				69,200	244,719

TOTAL 4.092 PRE-PACKAGED WASTE WATER TREATMENT:

\$ 1,468,312 EA

PART 2

Estimates for Remodel Work for Worksheets 11.00 and 12.00

11.00 RENOVATION

11.02 PAVING REPLACEMENT	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
Demolish and dispose of existing paving area	8,400	SF	1.99	16,716	0.007	58.80			
New 4" base course	117	CY	39.63	4,637	0.125	14.63			
2" asphalt paving	8,400	SF	1.90	15,960	0.016	134.40			
Joint to existing	100	LF	2.50	250	0.046	4.60			
Mark parking stall	30	EA	6.36	191	0.175	5.25			
Mark handicapped accessible stall	3	EA	37.10	111	0.537	1.61			
<i>SUBTOTAL HOURS:</i>						<u>219.29 HRS</u>			
Premium Time	10.00%					21.93			
<i>SUBTOTAL:</i>				<u>\$37,865</u>		<u>241.22 HRS</u>	<u>\$90.49</u>	<u>\$21,828</u>	<u>\$59,693</u>
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			7,573				4,366	11,939
TOTAL 11.02 PAVING REPLACEMENT:								\$ 71,632	
COST PER STALL:								\$ 2,171 /STL	
NUMBER OF STALLS:								33 STLs	

11.00 RENOVATION

11.03 FENCING REPLACEMENT	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
Remove complete existing 6'0" chainlink fence assembly and dispose	1,000	LF	0.69	690	0.054	54.00			
New complete 6'0" chainlink fence assembly	1,000	LF	55.64	55,640	0.200	200.00			
<i>SUBTOTAL HOURS:</i>						<u>254.00</u>	<i>HRS</i>		
Premium Time	10.00%					25.40			
<i>SUBTOTAL:</i>				<u>\$56,330</u>		<u>279.40</u>	<i>HRS</i>	<u>\$90.49</u>	<u>\$25,283</u>
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			11,266				5,057	16,323

TOTAL 11.03 FENCING REPLACEMENT:
COST PER LINEAR FOOT:
TOTAL LENGTH:

\$ 97,936
\$ 97.94 /LF
1,000 LF

11.00 RENOVATION

11.04 REPLACE SEPTIC SYSTEM	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
Pump out existing tank	1	EA			5.700	5.70			
Excavate/remove existing tank (4,000 gallon tank assumed)	1	EA	52.50	53	7.000	7.00			
Excavate/dispose of existing drain field fill material	100	CY	6.30	630	0.135	13.50			
Remove and dispose of existing piping, manifold, and structures	1	LOT	78.75	79	2.500	2.50			
5,000 gallon utility septic tank	1	EA	24168.00	24,168	24.700	24.70			
Excavation	1,250	CY			0.050	62.50			
2" polyurethane foam insulation	750	SF	2.33	1,748	0.008	6.00			
6" diameter HDPE piping	300	LF	16.00	4,800	0.105	31.50			
Two-way cleanout	3	EA	646.00	1,938	6.000	18.00			
Septic field risers	30	LF	8.95	269	0.090	2.70			
6" monitoring well fittings, solid plugs	8	EA	43.00	344	0.250	2.00			
Select backfill compacted in place	2,100	CY	24.46	51,366	0.160	336.00			
Backfill sand bedding	150	CY	49.77	7,466	0.080	12.00			
SUBTOTAL HOURS:						524.10 HRS			
Premium Time	10.00%					52.41			
SUBTOTAL:				\$92,861		576.51 HRS	\$90.49	\$52,168	\$145,029

11.00 RENOVATION

11.04 REPLACE SEPTIC SYSTEM	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		Rate	TOTAL		TOTAL
		Unit	Rate	TOTAL		Subtotal				& LABOR	
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			18,572					10,434		29,006

TOTAL 11.04 REPLACE SEPTIC SYSTEM:
COST PER GALLON:
TOTAL GALLONS:

\$ 174,035
\$ 34.81 /GAL
5,000 GAL

11.00 RENOVATION

11.12 RECHARGE THERMOPILES	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
Capture, transport, and dispose or recycle refrigerant	100	EA	53.00	5,300	1.500	150.00			
Recharge thermopile	100	EA	429.00	42,900	3.000	300.00			
Crew travel	2	EA	1196.00	2,392					
Crew per diem	10	DAYS	382.00	3,820					
<i>SUBTOTAL HOURS:</i>						<u>450.00</u>	<i>HRS</i>		
Premium Time	10.00%					45.00			
<i>SUBTOTAL:</i>				<u>\$54,412</u>		<u>495.00</u>	<i>HRS</i>	<u>\$81.64</u>	<u>\$40,412</u>
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			10,882				8,082	18,964
TOTAL 11.12 RECHARGE THERMOPILES:								\$ 113,788	
COST PER THERMOPILE:								\$ 1,137.88 /EA	
NUMBER OF THERMOPILES:								100 EA	

11.00 RENOVATION									
11.13 SITE GRADING/DRAINAGE	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>REPLACE FAILED STORM DRAINAGE SYSTEM</u>									
Excavate and remove to dispose existing storm drainage piping (allowance)	500	LF	1.31	655	0.220	110.00			
New 12" diameter CPEP piping	500	LF	26.50	13,250	0.264	132.00			
12" coupling and joint	28	EA	57.00	1,596	1.600	44.80			
New drainage structure	4	EA	10229.00	40,916	30.000	120.00			
Connection to structure	8	EA	58.00	464	1.070	8.56			
Trenching and backfill	1,850	CY	13.12	24,272	0.210	388.50			
Bedding material	167	CY	50.13	8,372	0.190	31.73			
Marker tape	500	LF	0.34	170	0.004	2.00			
Remove existing storm drainage structures	4	EA			7.000	28.00			
SUBTOTAL HOURS:						865.59 HRS			
Premium Time	10.00%					86.56			
SUBTOTAL:				\$89,695	952.15 HRS	\$90.49	\$86,160	\$175,855	
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			17,939				17,232	35,171
TOTAL 11.13 SITE GRADING/DRAINAGE:									\$ 211,026
COST PER ACRE:									\$ 422,052 /AC
NUMBER OF ACRES:									0.5 AC

11.00 RENOVATION

11.31 EXTERIOR UPGRADES (REPLACE EXTERIOR BEVELED SIDING)		MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
	Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>DEMOLITION</u>									
Remove existing siding and soffit	28,225	SF			0.019	536.28			
Load and haul	30	TONS	6.76	203	0.138	4.14			
Dump charge	30	TONS	74.36	2,231	0.090	2.70			
SUBTOTAL:				\$2,434		543.12 HRS	\$90.22	\$49,000	\$51,434
<u>REBUILD</u>									
3/4" beveled cedar 10" siding to existing, tight knot	26,165	SF	3.58	93,671	0.040	1,046.60			
3/4" CDX AWW plywood soffit to existing	2,060	SF	2.44	5,026	0.040	82.40			
High performance air barrier	25,725	SF	0.69	17,750	0.005	128.63			
1"x4" cedar trim, exterior	3,890	LF	1.68	6,535	0.015	58.35			
Sealant	6,670	LF	0.40	2,668	0.024	160.08			
Flashings	1,690	LF	3.90	6,591	0.027	45.63			
Sealant and backer rod	3,300	LF	1.93	6,369	0.043	141.90			
Remove, set aside and reinstall building attachments	1	LOT	21.00	21	60.000	60.00			
SUBTOTAL:				\$138,631		1,723.59 HRS	\$89.17	\$153,693	\$292,324
<u>PAINTING (SUBCONTRACTOR)</u>									
Siding	26,165	SF	0.94	24,595	0.019	497.14			

11.00 RENOVATION

11.31 EXTERIOR UPGRADES (REPLACE EXTERIOR BEVELED SIDING)		MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
	Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>PAINTING (SUBCONTRACTOR) (Continued)</u>									
Soffit	2,060	SF	0.94	1,936	0.020	41.20			
Existing trim	3,335	LF	0.94	3,135	0.015	50.03			
New trim to exterior	3,890	LF	0.94	3,657	0.014	54.46			
SUBTOTAL:				\$33,323		642.83 HRS	\$73.31	\$47,126	\$80,449
Subcontractor's Overhead and Profit on Finishes Materials and Labor	20.00%			6,665				9,425	16,090

TOTAL 11.31 EXTERIOR UPGRADES (REPLACE EXTERIOR BEVELED SIDING):
COST PER SQUARE FOOT:
EXTERIOR SURFACE AREA:

\$ 440,297
\$ 16.83 /SF
26,165 SF

11.00 RENOVATION

11.32 EXTERIOR UPGRADES

(REPAINT EXISTING)

11.00 RENOVATION									
11.32 EXTERIOR UPGRADES									
(REPAINT EXISTING)									
	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP.		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
<u>CAULKING</u>									
Remove and replace sealant	3,300	LF	0.42	1,386	0.060	198.00			
<i>SUBTOTAL:</i>				<u>\$1,386</u>		<i>198.00 HRS</i>	<i>\$89.17</i>	<u>\$17,656</u>	<u>\$19,042</u>
<u>PAINTING (SUBCONTRACTOR)</u>									
Prepare existing siding and paint	26,165	SF	1.00	26,165	0.022	575.63			
Prepare existing soffit and paint	2,060	SF	1.03	2,122	0.023	47.38			
Existing trim	3,335	LF	0.94	3,135	0.017	56.70			
New trim to exterior	3,890	LF	0.94	3,657	0.016	62.24			
Single door frames	16	EA	16.21	259	0.450	7.20			
Double door frames	6	EA	19.08	114	0.500	3.00			
Doors (one side)	28	EA	20.14	564	0.525	14.70			
<i>SUBTOTAL:</i>				<u>\$36,016</u>		<i>766.85 HRS</i>	<i>\$73.31</i>	<u>\$56,218</u>	<u>\$92,234</u>
Subcontractor's Overhead and Profit on Finishes Materials and Labor	20.00%			7,203				11,244	18,447
TOTAL 11.32 EXTERIOR UPGRADES (REPAINT EXISTING):								\$ 129,723	
COST PER SQUARE FOOT:								\$ 4.96 /SF	
EXTERIOR SURFACE AREA:								26,165 SF	

11.00 RENOVATION

11.33 EXTERIOR INSULATION FINISH SYSTEM TO EXISTING	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
Prepare and apply 1" insulation and EIFS applied finish	25,725	SF	7.95	204,514	0.150	3,858.75			
Trim at openings and sealant	3,300	LF	3.92	12,936	0.041	135.30			
Flashing	1,690	LF	3.90	6,591	0.027	45.63			
SUBTOTAL:				\$224,041		4,039.68 HRS	\$89.17	\$360,218	\$584,259
Subcontractor's Overhead and Profit on Finishes Materials and Labor	20.00%			44,808				72,044	116,852

TOTAL 11.33 EXTERIOR INSULATION FINISH SYSTEM TO EXISTING:
COST PER SF:
TOTAL AREA:

\$ 701,111
\$ 27.25 /SF
25,725 SF

11.00 RENOVATION

11.34 EXTERIOR UPGRADES (PAINTED CEMENT BOARD)				MATERIAL/EQUIPMENT		LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
	Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>APPLIED FINISH</u>									
Prepare surface to receive new board	25,725	SF	0.05	1,286	0.008	205.80			
Cement (Hardi) board	23,665	SF	4.13	97,736	0.023	544.30			
Cement (Hardi) board to soffit	2,060	SF	4.13	8,508	0.026	53.56			
High performance air barrier	25,725	SF	0.69	17,750	0.005	128.63			
1"x4" trim exterior	3,890	LF	1.68	6,535	0.015	58.35			
Flashing	1,690	LF	3.90	6,591	0.027	45.63			
SUBTOTAL:				\$138,406	1,036.27 HRS	\$89.17	\$92,404	\$230,810	
<u>CAULKING</u>									
Sealant and backer rod	3,300	LF	1.94	6,402	0.043	141.90			
SUBTOTAL:				\$6,402	141.90 HRS	\$89.17	\$12,653	\$19,055	
<u>PAINTING (SUBCONTRACTOR)</u>									
Siding	23,665	SF	0.95	22,482	0.019	449.64			
Soffit	2,060	SF	0.95	1,957	0.020	41.20			
Existing trim	3,335	LF	0.95	3,168	0.015	50.03			
New trim to exterior	3,890	LF	0.95	3,696	0.014	54.46			
SUBTOTAL:				\$31,303	595.33 HRS	\$73.31	\$43,644	\$74,947	

11.00 RENOVATION

11.34 EXTERIOR UPGRADES (PAINTED CEMENT BOARD)

11.00 RENOVATION										TOTAL
11.34 EXTERIOR UPGRADES (PAINTED CEMENT BOARD)	Qty	MATERIAL/EQUIPMENT			LABOR		MATERIAL/EQUIP.			
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR	
<u>PAINTING (SUBCONTRACTOR) (Continued)</u>										
Subcontractor's Overhead and Profit on Finishes										
Materials and Labor	20.00%			6,261				8,729		14,990

TOTAL 11.34 EXTERIOR UPGRADES (PAINTED CEMENT BOARD):
COST PER SQUARE FOOT:
EXTERIOR SURFACE AREA:

\$ 339,802
\$ 14.36 /SF
23,665 SF

11.00 RENOVATION

11.00 RENOVATION						TOTAL			
11.35 EXTERIOR SKIN (METAL SIDING)	Qty	MATERIAL/EQUIPMENT			LABOR		MATERIAL/EQUIP.		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
APPLIED FINISH									
1/2" CDX AWW plywood sheathing to existing	23,665	SF	1.71	40,467	0.014	331.31			
2"x6" furring	12,685	LF	1.30	16,491	0.030	380.55			
Metal siding with Kynar finish, including trim	23,665	SF	11.77	278,537	0.119	2,816.14			
Metal soffit with Kynar finish, including trim	2,060	SF	10.91	22,475	0.129	265.74			
High performance air barrier	25,725	SF	0.69	17,750	0.005	128.63			
Sealant	3,300	LF	0.40	1,320	0.024	79.20			
Flashings	1,690	LF	3.90	6,591	0.027	45.63			
SUBTOTAL:				\$383,631		4,047.20 HRS	\$89.17	\$360,889	\$744,520

NOTE: No added insulation.

TOTAL 11.35 EXTERIOR SKIN (METAL SIDING):
COST PER SQUARE FOOT:
EXTERIOR SURFACE AREA:

\$ 744,520
\$ 31.46 /SF
23,665 SF

11.00 RENOVATION

11.36 EXTERIOR SKIN (NEW METAL SIDING INSTALLED OVER EXISTING)	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
New metal panel and associated flashing over existing metal siding, including standoffs	23,665	SF	15.83	374,617	0.149	3,526.09			
<i>SUBTOTAL HOURS:</i>						<u>3,526.09</u>	<i>HRS</i>		
Premium Time	10.00%					352.61			
<i>SUBTOTAL:</i>				<u>\$374,617</u>		<u>3,878.70</u>	<i>HRS</i>	<u>\$89.17</u>	<u>\$345,864</u>
								<u>\$720,481</u>	

TOTAL 11.36 EXTERIOR SKIN (NEW METAL SIDING INSTALLED OVER EXISTING):
COST PER SQUARE FOOT:
EXTERIOR SURFACE AREA:

\$ 720,481
\$ 30.45 /SF
23,665 SF

11.00 RENOVATION

11.38 EXTERIOR CLOSURE (REPLACE DOORS AND FRAMES)

11.00 RENOVATION									
11.38 EXTERIOR CLOSURE (REPLACE DOORS AND FRAMES)	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>DEMOLITION</u>									
<u>Remove Existing</u>									
Remove interior and exterior trim	784	LF			0.015	11.76			
Single door and frame	16	EA			1.950	31.20			
Double door	6	PRS			2.650	15.90			
Load and haul	2	TONS	6.76	14	0.138	0.28			
Dump charge	2	TONS	74.36	149	0.090	0.18			
SUBTOTAL:				\$163		59.32 HRS	\$90.22	\$5,352	\$5,515
<u>REBUILD</u>									
2"x6" subframing	263	LF	1.50	395	0.030	7.89			
1"x4" cedar trim exterior	392	LF	1.68	659	0.015	5.88			
Trim interior	392	LF	4.05	1,588	0.035	13.72			
SUBTOTAL:				\$2,642		27.49 HRS	\$89.17	\$2,451	\$5,093
<u>INSULATED DOORS</u>									
3'0"x7'0" hollow metal insulated frame for door	16	EA	492.00	7,872	1.100	17.60			
6'0"x7'0" hollow metal insulated frame for double door	6	EA	829.00	4,974	1.750	10.50			
3'0"x7'0" hollow metal insulated single door	16	EA	1326.00	21,216	0.750	12.00			
3'0"x7'0" insulated hollow metal double door with vision panel	6	PRS	3745.00	22,470	2.500	15.00			

11.00 RENOVATION

11.38 EXTERIOR CLOSURE (REPLACE DOORS AND FRAMES)

11.00 RENOVATION							TOTAL		
11.38 EXTERIOR CLOSURE (REPLACE DOORS AND FRAMES)	Qty	MATERIAL/EQUIPMENT			LABOR		MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>INSULATED DOORS (Continued)</u>									
Hardware for single exterior door	16	SETS	2675.00	42,800	3.660	58.56			
Hardware for double exterior door	3	SETS	3188.00	9,564	6.150	18.45			
Hardware for double exterior door with panic hardware, including emergency lockdown provisions	3	SETS	13144.00	39,432	9.155	27.47			
<u>CAULKING</u>									
Sealant and backer rod	392	LF	1.94	760	0.043	16.86			
SUBTOTAL:				\$149,088		176.44 HRS	\$89.17	\$15,733	\$164,821
<u>PAINTING (SUBCONTRACTOR)</u>									
New trim to exterior	392	LF	0.95	372	0.014	5.49			
Single door frame	16	EA	16.21	259	0.450	7.20			
Double door frame	6	EA	19.08	114	0.533	3.20			
Door	28	EA	40.28	1,128	0.930	26.04			
SUBTOTAL:				\$1,873		41.93 HRS	\$73.31	\$3,074	\$4,947
Subcontractor's Overhead and Profit on Finishes Materials and Labor	20.00%			375				615	990
TOTAL 11.38 EXTERIOR CLOSURE (REPLACE DOORS AND FRAMES):									\$ 181,366
COST PER DOOR LEAF:									\$ 6,477.36 /EA
NUMBER OF DOORS:									28 EA

11.00 RENOVATION

11.39 EXTERIOR CLOSURE (REPLACE OVERHEAD DOORS)	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		MATERIAL/EQUIP.	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	& LABOR
<u>DEMOLITION</u>									
Remove existing 10'0"x12'0" sectional overhead door, including disposal	1	EA	74.90	75	4.000	4.00			
Disconnect electrical connection	1	EA			0.720	0.72			
SUBTOTAL:				\$75		4.72 HRS	\$90.22	\$426	\$501
<u>REBUILD</u>									
New 10'0"x12'0" sectional overhead door	1	EA	8212.00	8,212	11.000	11.00			
New motor connection	1	EA	53.50	54	1.750	1.75			
SUBTOTAL:				\$8,266		12.75 HRS	\$89.17	\$1,137	\$9,403
<u>CAULKING</u>									
Sealant and backer rod	64	LF	1.94	124	0.043	2.75			
SUBTOTAL:				\$124		2.75 HRS	\$89.17	\$245	\$369
<u>PAINTING (SUBCONTRACTOR)</u>									
Paint	120	SF	0.95	114	1.500	180.00			
SUBTOTAL:				\$114		180.00 HRS	\$73.31	\$13,196	\$13,310
Subcontractor's Overhead and Profit on Finishes Materials and Labor	20.00%			23				2,639	2,662
TOTAL 11.39 EXTERIOR CLOSURE (REPLACE OVERHEAD DOORS):								\$ 26,245	
COST PER SQUARE FOOT:								\$ 218.71 /SF	
AREA OF OVERHEAD DOOR OPENINGS TO BE REPLACED:								120 SF	

11.00 RENOVATION

11.40 EXTERIOR CLOSURE

(REPLACE WINDOWS)

11.00 RENOVATION									
11.40 EXTERIOR CLOSURE									
(REPLACE WINDOWS)									
	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP.		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
<u>DEMOLITION</u>									
<u>Remove Existing</u>									
Windows	3,500	SF			0.050	175.00			
Blinds	3,000	SF			0.010	30.00			
Load and haul	9	TONS	6.76	61	0.138	1.24			
Dump charge	9	TONS	74.36	669	0.090	0.81			
<i>SUBTOTAL:</i>				<u>\$730</u>		<i>207.05 HRS</i>	<i>\$90.22</i>	<u>\$18,680</u>	<i>\$19,410</i>
<u>REBUILD</u>									
2"x6" subframing	2,847	LF	1.50	4,271	0.030	85.41			
Exterior trim	3,498	LF	1.68	5,877	0.015	52.47			
Interior trim	3,498	LF	4.05	14,167	0.035	122.43			
<i>SUBTOTAL:</i>				<u>\$24,315</u>		<i>260.31 HRS</i>	<i>\$89.17</i>	<u>\$23,212</u>	<i>\$47,527</i>
<u>WINDOWS</u>									
Metal clad insulated windows	3,500	SF	80.14	280,490	0.188	658.00			
Solid surface sills	700	LF	14.98	10,486	0.060	42.00			
<u>Caulking</u>									
Sealant and backer rod	2,908	LF	1.94	5,642	0.043	125.04			
<i>SUBTOTAL:</i>				<u>\$296,618</u>		<i>825.04 HRS</i>	<i>\$89.17</i>	<u>\$73,569</u>	<i>\$370,187</i>

11.00 RENOVATION

11.40 EXTERIOR CLOSURE

(REPLACE WINDOWS)

11.00 RENOVATION						TOTAL					
11.40 EXTERIOR CLOSURE						MATERIAL/EQUIP.					
(REPLACE WINDOWS)						LABOR					
	Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR		
<u>PAINTING (SUBCONTRACTOR)</u>											
New exterior and interior trim, sill	7,696	LF	0.42	3,232	0.020	153.92					
SUBTOTAL:				\$3,232		153.92 HRS	\$73.31	\$11,284	\$14,516		
Subcontractor's Overhead and Profit on Finishes											
Materials and Labor	20.00%			646				2,257	2,903		
<u>WINDOW COVERINGS</u>											
Horizontal blinds	3,000	SF	26.50	79,500	0.106	318.00					
SUBTOTAL:				\$79,500		318.00 HRS	\$89.17	\$28,356	\$107,856		

TOTAL 11.40 EXTERIOR CLOSURE (REPLACE WINDOWS):

COST PER SQUARE FOOT:

WINDOW AREA:

\$ 562,399

\$ 160.69 /SF

3,500 SF

11.00 RENOVATION

11.41 EXTERIOR CLOSURE

(REPLACE CURTAIN WALL)

11.00 RENOVATION					TOTAL				
11.41 EXTERIOR CLOSURE					MATERIAL/EQUIP.				
(REPLACE CURTAIN WALL)					& LABOR				
	Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
Remove existing complete curtain wall assembly to disposal	100	SF			0.060	6.00			
Modify existing opening as required for new curtain wall assembly	100	SF	2.14	214	0.030	3.00			
New curtain wall assembly	100	SF	176.00	17,600	0.253	25.30			
Sealant and backer rod	40	LF	1.94	78	0.043	1.72			
<i>SUBTOTAL HOURS:</i>						<u>36.02</u>	<i>HRS</i>		
Premium Time	10.00%					3.60			
<i>SUBTOTAL:</i>				<u>\$17,892</u>		<u>39.62</u>	<i>HRS</i>	<u>\$89.17</u>	<u>\$3,533</u>
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			3,578				707	4,285

TOTAL 11.41 EXTERIOR CLOSURE (REPLACE CURTAIN WALL):

COST PER SQUARE FOOT:

AREA:

\$ 25,710

\$ 257.10 /SF

100 SF

11.00 RENOVATION

11.00 RENOVATION									
11.51 REPLACE METAL ROOFING	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>DEMOLITION</u>									
Temporary fall protection rail	44,170	SF	0.11	4,859	0.001	44.17			
Remove existing roofing (non-hazardous materials)	44,170	SF			0.029	1,280.93			
Load and haul	57	TONS	6.76	385	0.138	7.87			
Dump charges	57	TONS	74.36	4,239	0.090	5.13			
Protection during repair	44,170	SF	0.15	6,626	0.006	265.02			
SUBTOTAL:				\$16,109		1,603.12 HRS	\$90.22	\$144,633	\$160,742
<u>REPAIRS</u>									
Repairs to existing roof deck (20%)	8,834	SF	10.40	91,874	0.060	530.04			
SUBTOTAL:				\$91,874		530.04 HRS	\$87.33	\$46,288	\$138,162
<u>NEW ROOF ASSEMBLY</u>									
Metal roofing panel assembly	44,170	SF	12.78	564,493	0.149	6,581.33			
Gutters	900	LF	7.49	6,741	0.064	57.60			
Downspouts	180	LF	7.49	1,348	0.060	10.80			
Splash blocks	10	EA	12.72	127	0.053	0.53			
Allowance for mechanical and electrical extensions/modifications as required to replace roofing	44,170	SF	0.23	10,159	0.012	530.04			
SUBTOTAL:				\$582,868		7,180.30 HRS	\$86.33	\$619,875	\$1,202,743

11.00 RENOVATION

11.51 REPLACE METAL ROOFING	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
Subcontractor's Overhead and Profit on Materials and Labor	30.00%			174,860				185,963	360,823

* Note: Cost excludes increase to insulation or seismic upgrades.

TOTAL 11.51 REPLACE METAL ROOFING:	\$ 1,862,470 *
COST PER SQUARE FOOT AT ROOF:	\$ 42.17 /SF
GROSS ROOF AREA:	44,170 SF

11.00 RENOVATION

**11.52 REPLACE INSULATED METAL PANEL
ROOFING**

	Qty	Unit	Rate	MATERIAL/EQUIPMENT TOTAL	Hours	LABOR Subtotal	Rate	TOTAL MATERIAL/EQUIP. & LABOR
<u>DEMOLITION</u>								
Temporary fall protection rail	44,170	SF	0.11	4,859	0.001	44.17		
Remove existing roofing (non-hazardous materials)	44,170	SF			0.029	1,280.93		
Load and haul	57	TONS	6.76	385	0.138	7.87		
Dump charges	57	TONS	74.36	4,239	0.090	5.13		
Protection during repair	44,170	SF	0.15	6,626	0.006	265.02		
SUBTOTAL:				\$16,109		1,603.12 HRS	\$90.22	\$144,633 \$160,742
<u>REPAIRS</u>								
Repairs to existing roof deck (20%)	8,834	SF	10.40	91,874	0.060	530.04		
SUBTOTAL:				\$91,874		530.04 HRS	\$87.33	\$46,288 \$138,162
<u>NEW ROOF ASSEMBLY</u>								
Insulated metal roofing panels	44,170	SF	17.28	763,258	0.149	6,581.33		
Gutters	900	LF	7.49	6,741	0.064	57.60		
Downspouts	180	LF	7.49	1,348	0.060	10.80		
Splash blocks	10	EA	12.72	127	0.053	0.53		
Allowance for mechanical and electrical extensions/modifications as required to replace roofing	44,170	SF	0.23	10,159	0.012	530.04		
SUBTOTAL:				\$781,633		7,180.30 HRS	\$86.33	\$619,875 \$1,401,508

11.00 RENOVATION

11.52 REPLACE INSULATED METAL PANEL

ROOFING

11.00 RENOVATION							TOTAL		
11.52 REPLACE INSULATED METAL PANEL ROOFING							MATERIAL/EQUIP. & LABOR		
	Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
Subcontractor's Overhead and Profit on Materials and Labor	30.00%			234,490				185,963	420,453

*** Note: Cost excludes increase to insulation or seismic upgrades.**

TOTAL 11.52 REPLACE INSULATED METAL PANEL ROOFING:

\$ 2,120,865 *

COST PER SQUARE FOOT AT ROOF:

\$ 48.02 /SF

GROSS ROOF AREA:

44,170 SF

11.00 RENOVATION

11.00 RENOVATION									
11.53 REPLACE MEMBRANE ROOFING	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP.		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
<u>DEMOLITION</u>									
Temporary fall protection rail	44,170	SF	0.11	4,859	0.001	44.17			
Remove existing roofing (non-hazardous materials)	44,170	SF			0.024	1,060.08			
Load and haul	28	TONS	6.76	189	0.138	3.86			
Dump charges	28	TONS	74.36	2,082	0.090	2.52			
Protection during repair	44,170	SF	0.15	6,626	0.006	265.02			
SUBTOTAL:				\$13,756		1,375.65 HRS	\$90.22	\$124,111	\$137,867
<u>REPAIRS</u>									
Repairs to existing roof deck (20%)	8,834	SF	10.40	91,874	0.060	530.04			
SUBTOTAL:				\$91,874		530.04 HRS	\$87.33	\$46,288	\$138,162
<u>NEW ROOF (SUBCONTRACTOR)</u>									
60 mil EPDM roofing	44,170	SF	3.28	144,878	0.040	1,766.80			
1/2" substrate particle board	44,170	SF	1.76	77,739	0.019	839.23			
6" rigid insulation	44,170	SF	6.99	308,748	0.014	618.38			
5/8" gypboard sheathing	44,170	LF	2.78	122,793	0.019	839.23			
Treated 5/8" CDX plywood to parapet	2,175	SF	2.08	4,524	0.022	47.85			
Coping and flashing	1,450	LF	7.59	11,006	0.090	130.50			
Vapor retarder	44,170	SF	0.84	37,103	0.002	88.34			
Work around roof drains, VTR, etc.	1	LOT	175.00	175	20.000	20.00			

11.00 RENOVATION

11.00 RENOVATION						TOTAL			
11.53 REPLACE MEMBRANE ROOFING	Qty	MATERIAL/EQUIPMENT			LABOR		MATERIAL/EQUIP.		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
<u>NEW ROOF (SUBCONTRACTOR) (Continued)</u>									
Allowance for mechanical and electrical extensions/modifications as required to replace roofing	44,170	SF	0.23	10,159	0.015	662.55			
SUBTOTAL:				\$717,125		5,012.88 HRS	\$86.33	\$432,762	\$1,149,887
Subcontractor's Overhead and Profit on Materials and Labor	30.00%			215,138				129,829	344,967

* Note: Cost excludes increase to insulation or seismic upgrades.

TOTAL 11.53 REPLACE MEMBRANE ROOFING:	\$ 1,770,883 *
COST PER SQUARE FOOT AT ROOF:	\$ 40.09 /SF
GROSS ROOF AREA:	44,170 SF

11.00 RENOVATION

11.00 RENOVATION									
11.54 REPLACE ASPHALT SHINGLE ROOFING	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>DEMOLITION</u>									
Temporary fall protection rail	44,170	SF	0.11	4,859	0.001	44.17			
Remove existing roofing (non-hazardous materials)	44,170	SF			0.024	1,060.08			
Load and haul	66	TONS	6.76	446	0.138	9.11			
Dump charges	66	TONS	74.36	4,908	0.090	5.94			
Protection during repair	44,170	SF	0.15	6,626	0.006	265.02			
SUBTOTAL:				\$16,839		1,384.32 HRS	\$90.22	\$124,893	\$141,732
<u>REPAIRS</u>									
Repairs to existing roof deck (20%)	8,834	SF	6.24	55,124	0.060	530.04			
SUBTOTAL:				\$55,124		530.04 HRS	\$87.33	\$46,288	\$101,412
<u>NEW ROOF (SUBCONTRACTOR)</u>									
Class A, 200 to 300 lbs. per square asphalt shingles	44,170	SF	3.20	141,344	0.023	1,015.91			
15 lb. roofing felt	44,170	SF	0.16	7,067	0.014	618.38			
Coping and flashing	1,450	LF	7.59	11,006	0.090	130.50			
Work around roof drains/VTR, etc.	1	LOT	175.00	175	20.000	20.00			
Gutters	900	LF	7.49	6,741	0.064	57.60			
Downspouts	180	LF	7.49	1,348	0.060	10.80			
Splash block	10	EA	12.72	127	0.053	0.53			

11.00 RENOVATION

11.00 RENOVATION						TOTAL			
11.54 REPLACE ASPHALT SHINGLE ROOFING	Qty	MATERIAL/EQUIPMENT			LABOR		MATERIAL/EQUIP.		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
<u>NEW ROOF (SUBCONTRACTOR) (Continued)</u>									
Allowance for mechanical and electrical extensions/modifications as required to replace roofing	44,170	SF	0.23	10,159	0.012	530.04			
SUBTOTAL:				\$177,967		2,383.76 HRS	\$86.33	\$205,790	\$383,757
Subcontractor's Overhead and Profit on Materials and Labor	30.00%			53,390				61,737	115,127

* Note: Cost excludes increase to insulation or seismic upgrades.

TOTAL 11.54 REPLACE MEMBRANE ROOFING:	\$ 742,028 *
COST PER SQUARE FOOT AT ROOF:	\$ 16.80 /SF
GROSS ROOF AREA:	44,170 SF

11.00 RENOVATION

11.55 INCREASE ROOF INSULATION BY R-10 DURING ROOF REPLACEMENT	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		Rate	TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal			TOTAL	
New 2" rigid insulation over existing	44,170	SF	2.33	102,916	0.013	574.21				
<i>SUBTOTAL HOURS:</i>						<u>574.21</u>	<i>HRS</i>			
Premium Time	10.00%					57.42				
<i>SUBTOTAL:</i>				<u>\$102,916</u>		<u>631.63</u>	<i>HRS</i>	<u>\$86.33</u>	<u>\$54,529</u>	<u>\$157,445</u>
Subcontractor's Overhead and Profit on Materials and Labor	30.00%			30,875					16,359	47,234

TOTAL 11.55 INCREASE ROOF INSULATION BY R-10 DURING ROOF REPLACEMENT:
COST PER SQUARE FOOT:
AREA:

\$ 204,679
\$ 4.63 /SF
44,170 SF

11.00 RENOVATION

11.56 REPLACE ROOF DRAIN AND RAIN

11.00 RENOVATION		MATERIAL/EQUIPMENT			LABOR		TOTAL	
11.56 REPLACE ROOF DRAIN AND RAIN LEADER	Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL
Remove roof drain assembly	1	EA			1.000	1.00		
Remove rain leader piping and insulation	20	LF			0.053	1.06		
Inspect/repair roof deck at drain area, if required	1	LOT	156.00	156	10.000	10.00		
Install new roof drain assembly	1	EA	540.00	540	2.640	2.64		
Install new 4" rain leader	20	LF	49.55	991	0.439	8.78		
Install new pipe insulation	20	LF	15.02	300	0.150	3.00		
New heat trace wiring	10	LF	14.84	148	0.030	0.30		
SUBTOTAL HOURS:						26.78 HRS		
Premium Time	10.00%					2.68		
SUBTOTAL:				\$2,135	29.46 HRS	\$90.19	\$2,657	\$4,792
Subcontractor's Overhead and Profit on Materials and Labor				30.00%	641		797	1,438

TOTAL 11.56 REPLACE ROOF DRAIN AND RAIN LEADER:

\$ 6,230 EA

11.00 RENOVATION

11.61 REPLACE PARTITIONS (INCLUDES FINISHES)

11.00 RENOVATION							TOTAL		
11.61 REPLACE PARTITIONS (INCLUDES FINISHES)							MATERIAL/EQUIP.		
	Qty	MATERIAL/EQUIPMENT			LABOR				
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
<u>DEMOLITION</u>									
Remove partitions	45,000	SF			0.019	855.00			
Protect existing construction	44,170	SF	0.15	6,626	0.006	265.02			
Load and haul	140	TONS	6.76	946	0.138	19.32			
Dump charge	140	TONS	74.36	10,410	0.090	12.60			
SUBTOTAL:				\$17,982		1,151.94 HRS	\$90.22	\$103,928	\$121,910

INTERIOR CONSTRUCTION

2"x4" studs, 16" o/c	50,750	LF	1.11	56,333	0.025	1,268.75			
2"x6" studs, 16" o/c	3,400	LF	1.53	5,202	0.030	102.00			
5/8" Type X gypboard, taped and sanded	90,000	SF	1.36	122,400	0.027	2,430.00			
1/2" plywood backing	16,000	SF	0.94	15,040	0.014	224.00			
Sound insulation	10,000	SF	0.88	8,800	0.007	70.00			
SUBTOTAL:				\$207,775		4,094.75 HRS	\$89.17	\$365,129	\$572,904

INTERIOR CONSTRUCTION (SUBCONTRACTOR)

Base

Rubber	8,210	LF	1.52	12,479	0.025	205.25			
Wood base	480	LF	4.05	1,944	0.035	16.80			

Walls

Paint	100,000	SF	0.95	95,000	0.022	2,200.00			
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11.00 RENOVATION

11.61 REPLACE PARTITIONS (INCLUDES FINISHES)

11.00 RENOVATION									TOTAL
11.61 REPLACE PARTITIONS (INCLUDES FINISHES)	Qty	MATERIAL/EQUIPMENT			LABOR		MATERIAL/EQUIP.		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
<u>INTERIOR CONSTRUCTION (SUBCONTRACTOR) (Continued)</u>									
<u>Walls (Continued)</u>									
Vinyl wall covering (14 ounce)	2,000	SF	3.65	7,300	0.045	90.00			
Rigid sheet vinyl paneling	2,880	SF	7.47	21,514	0.065	187.20			
Carpet tile	623	SY	44.10	27,474	0.175	109.03			
<u>Painting</u>									
Paint miscellaneous metals	250	SF	0.48	120	0.023	5.75			
SUBTOTAL:				\$165,831	2,814.03 HRS	\$73.31	\$206,297	\$372,128	
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			33,166				41,259	74,425

TOTAL 11.61 REPLACE PARTITIONS (INCLUDES FINISHES):
COST PER SF:
GROSS FLOOR AREA:

\$ 1,141,367
\$ 27.57 /SF
41,400 SF

11.00 RENOVATION

11.62 REPLACE WALL FINISHES	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
Cover and protect existing finishes	41,400	SF	0.15	6,210	0.006	248.40			
Remove existing vinyl wall covering	2,000	SF			0.011	22.00			
Remove existing rigid sheet finishes and dispose (FRP, etc.)	2,880	SF			0.017	48.96			
Remove existing wall carpet and dispose	5,600	SF			0.015	84.00			
Patch and paint existing surfaces	100,000	SF	1.00	100,000	0.022	2,200.00			
Prep and apply vinyl wall covering	2,000	SF	3.65	7,300	0.045	90.00			
New rigid sheet finishes	2,880	SF	7.47	21,514	0.065	187.20			
New wall carpet	5,600	SF	4.90	27,440	0.020	112.00			
SUBTOTAL:				\$162,464		2,992.56 HRS	\$90.22	\$269,989	\$432,453
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			32,493				53,998	86,491

TOTAL 11.62 REPLACE WALL FINISHES:
COST PER SF:
GROSS FLOOR AREA:

\$ 518,944
\$ 12.53 /SF
41,400 SF

11.00 RENOVATION

11.00 RENOVATION									
11.63 REPLACE DOOR LEAF AND FRAMES	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>DEMOLITION</u>									
Remove doors and frames	77	EA			1.550	119.35			
Load and haul	5	TONS	6.76	34	0.138	0.69			
Dump charge	5	TONS	74.36	372	0.090	0.45			
SUBTOTAL:				\$406		120.49 HRS	\$90.22	\$10,871	\$11,277
<u>INTERIOR CONSTRUCTION (SUBCONTRACTOR)</u>									
<u>Painting</u>									
Single door frame	60	EA	16.21	973	0.450	27.00			
Double door frame	8	EA	19.08	153	0.533	4.26			
Door	76	EA	40.28	3,061	0.930	70.68			
SUBTOTAL:				\$4,187		101.94 HRS	\$73.31	\$7,473	\$11,660
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			837				1,495	2,332
<u>INTERIOR CONSTRUCTION</u>									
<u>Doors</u>									
Hollow metal frame for 3'0"x7'0" door	60	EA	513.00	30,780	1.000	60.00			
Hollow metal frame for 6'0"x7'0" double door	8	PRS	829.00	6,632	1.650	13.20			
3'0"x7'0" solid core door	54	EA	781.00	42,174	0.750	40.50			
3'0"x7'0" solid core door with glazed opening	22	EA	1326.00	29,172	1.250	27.50			
Hardware for single door	60	SETS	1605.00	96,300	2.880	172.80			

11.00 RENOVATION

11.00 RENOVATION									
11.63 REPLACE DOOR LEAF AND FRAMES	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP.	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	& LABOR
<u>INTERIOR CONSTRUCTION (Continued)</u>									
<u>Doors (Continued)</u>									
Hardware for double door	8	SETS	2626.00	21,008	5.750	46.00			
Special door	1	EA	5885.00	5,885	12.000	12.00			
<u>Glazing</u>									
Relights in hollow metal frames	180	SF	98.44	17,719	0.307	55.26			
SUBTOTAL:				\$249,670		427.26 HRS	\$89.17	\$38,099	\$287,769
<u>SPECIALTIES</u>									
Signage	55	EA	84.65	4,656	0.450	24.75	\$ 89.17	2,207	6,863

TOTAL 11.63 REPLACE DOOR LEAF AND FRAMES:
COST PER DOOR:
NUMBER OF DOORS (LEAF):

\$ 319,901
\$ 4,154.56 /EA
77 EA

11.00 RENOVATION

**11.64 INTERIOR PAINTING (WALLS AND
CEILINGS)**

	Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	TOTAL MATERIAL/EQUIP. & LABOR
<u>INTERIOR CONSTRUCTION (SUBCONTRACTOR)</u>									
<u>Walls</u>									
Prep and paint	100,000	SF	1.00	100,000	0.017	1,700.00			
<u>Ceilings</u>									
Prep and paint gypboard ceiling	5,350	SF	1.00	5,350	0.019	101.65			
<u>Painting</u>									
Single door frame	60	EA	16.21	973	0.450	27.00			
Double door frame	8	EA	19.08	153	0.533	4.26			
Door	76	EA	40.28	3,061	0.930	70.68			
Paint miscellaneous metals	250	SF	1.00	250	0.023	5.75			
Protection to existing	41,400	SF	0.02	828	0.005	207.00			
SUBTOTAL:				\$110,615		2,116.34 HRS	\$73.31	\$155,149	\$265,764
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			22,123				31,030	53,153
<u>ELECTRICAL (SUBCONTRACTOR)</u>									
Remove device covers and reinstall	1	LOT	143.00	143	30.000	30.00			
SUBTOTAL HOURS:						30.00 HRS			
Premium Time	10.00%					3.00			
SUBTOTAL:				\$143		33.00 HRS	\$95.83	\$3,162	\$3,305

11.00 RENOVATION

11.64 INTERIOR PAINTING (WALLS AND CEILINGS)

11.00 RENOVATION								TOTAL	
11.64 INTERIOR PAINTING (WALLS AND CEILINGS)			MATERIAL/EQUIPMENT			LABOR		MATERIAL/EQUIP.	
	Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
<u>ELECTRICAL (SUBCONTRACTOR) (Continued)</u>									
Subcontractor's Overhead and Profit on Materials and Labor									
	20.00%				29			632	661

ELECTRICAL (SUBCONTRACTOR) (Continued)

Subcontractor's Overhead and Profit on Materials and Labor

20.00%

29

632

661

TOTAL 11.64 INTERIOR PAINTING (WALLS AND CEILINGS):

\$ 322,883

COST PER SQUARE FOOT:

\$ 7.80 /SF

GROSS FLOOR AREA:

41,400 SF

11.00 RENOVATION

11.00 RENOVATION									
11.65 REPLACE CARPET TILE	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>DEMOLITION</u>									
Remove carpet and other floor finish	28,710	SF			0.009	258.39			
Load and haul	14	TONS	6.76	95	0.138	1.93			
Dump charge	14	TONS	74.36	1,041	0.090	1.26			
SUBTOTAL:				\$1,136		261.58 HRS	\$90.22	\$23,600	\$24,736
<u>INTERIOR CONSTRUCTION (SUBCONTRACTOR)</u>									
<u>Floor</u>									
Carpet tile, including preparing existing	3,190	SY	47.25	150,728	0.190	606.10			
<u>Base</u>									
4" rubber	6,215	LF	1.52	9,447	0.025	155.38			
Wood base	480	LF	4.05	1,944	0.035	16.80			
SUBTOTAL:				\$162,119		778.28 HRS	\$73.31	\$57,056	\$219,175
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			32,424				11,411	43,835
TOTAL 11.65 REPLACE CARPET TILE:								\$ 287,746	
COST PER SQUARE FOOT:								\$ 10.02 /SF	
GROSS FLOOR AREA:								28,710 SF	

11.00 RENOVATION

11.00 RENOVATION									
11.66 REPLACE RESILIENT FLOORING	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP.		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
<u>DEMOLITION</u>									
Remove existing floor finish	5,450	SF			0.009	49.05			
Load and haul	2	TONS	6.76	14	0.138	0.28			
Dump charge	2	TONS	74.36	149	0.090	0.18			
SUBTOTAL:				\$163		49.51 HRS	\$90.22	\$4,467	\$4,630
<u>INTERIOR CONSTRUCTION (SUBCONTRACTOR)</u>									
<u>Floor</u>									
Vinyl tile, including prepare existing	2,000	SF	4.18	8,360	0.035	70.00			
Sheet vinyl, including prepare existing	3,450	SF	5.72	19,734	0.040	138.00			
<u>Base</u>									
4" rubber base	1,755	LF	1.52	2,668	0.025	43.88			
SUBTOTAL:				\$30,762		251.88 HRS	\$73.31	\$18,465	\$49,227
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			6,152				3,693	9,845
<u>EQUIPMENT</u>									
<u>Furnishings</u>									
Rubber entry mat	200	SF	23.85	4,770	0.035	7.00			
SUBTOTAL:				\$4,770		7.00 HRS	\$89.17	\$624	\$5,394
TOTAL 11.66 REPLACE RESILIENT FLOORING:								\$ 69,096	
COST PER SQUARE FOOT:								\$ 12.23 /SF	
GROSS FLOOR AREA:								5,650 SF	

11.00 RENOVATION

11.00 RENOVATION									
11.67 REPLACE WOOD GYM FLOORING	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>DEMOLITION</u>									
Remove gym floor	3,500	SF			0.024	84.00			
Load and haul	1.4	TONS	6.76	9	0.138	0.19			
Dump charge	1.4	TONS	74.36	104	0.090	0.13			
SUBTOTAL:				\$113		84.32 HRS	\$90.22	\$7,607	\$7,720
<u>INTERIOR CONSTRUCTION (SUBCONTRACTOR)</u>									
<u>Floor</u>									
Gym sports flooring	3,500	SF	18.33	64,155	0.180	630.00			
Court markings	1	LOT	1669.00	1,669	24.000	24.00			
<u>Base</u>									
6" rubber	240	LF	1.75	420	0.030	7.20			
SUBTOTAL:				\$66,244		661.20 HRS	\$73.31	\$48,473	\$114,717
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			13,249				9,695	22,944
TOTAL 11.67 REPLACE WOOD GYM FLOORING: COST PER SQUARE FOOT: GROSS FLOOR AREA:									\$ 145,381 \$ 41.54 /SF 3,500 SF

11.00 RENOVATION

11.00 RENOVATION									
11.68 REPLACE RESILIENT GYM FLOORING	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>DEMOLITION</u>									
Remove existing gym floor assembly	3,500	SF			0.024	84.00			
Load and haul	1	TON	6.76	7	0.138	0.14			
Dump charge	1	TON	74.36	74	0.090	0.09			
SUBTOTAL:				\$81	84.23 HRS	\$90.22		\$7,599	\$7,680
<u>INTERIOR CONSTRUCTION (SUBCONTRACTOR)</u>									
Resilient gym flooring	3,500	SF	10.65	37,275	0.120	420.00			
Court markings	1	LOT	1669.00	1,669	24.000	24.00			
6" rubber base	240	LF	1.75	420	0.030	7.20			
SUBTOTAL:				\$39,364	451.20 HRS	\$73.31		\$33,077	\$72,441
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			7,873				6,615	14,488
TOTAL 11.68 REPLACE RESILIENT GYM FLOORING:									\$ 94,609
COST PER SQUARE FOOT:									\$ 27.03 /SF
GROSS FLOOR AREA:									3,500 SF

11.00 RENOVATION

11.00 RENOVATION									
11.69 REPLACE CERAMIC TILE	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>DEMOLITION</u>									
Remove tiles and backerboard	3,080	SF			0.050	154.00			
Load and haul	5	TONS	6.76	34	0.138	0.69			
Dump charge	5	TONS	74.36	372	0.090	0.45			
SUBTOTAL:				\$406		155.14 HRS	\$90.22	\$13,997	\$14,403
<u>INTERIOR CONSTRUCTION (SUBCONTRACTOR)</u>									
<u>Floor</u>									
Mosaic ceramic tile	1,400	SF	10.44	14,616	0.135	189.00			
<u>Base</u>									
Ceramic tile	210	LF	10.54	2,213	0.120	25.20			
<u>Walls</u>									
1/2" cementitious backer board	1,680	SF	2.33	3,914	0.029	48.72			
Ceramic tile	1,680	SF	12.72	21,370	0.140	235.20			
SUBTOTAL:				\$42,113		498.12 HRS	\$73.31	\$36,517	\$78,630
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			8,423				7,303	15,726
TOTAL 11.69 REPLACE CERAMIC TILE:								\$ 108,759	
COST PER TILE AREA:								\$ 35.31 /SF	
TILE AREA:								3,080 SF	

11.00 RENOVATION

11.00 RENOVATION										
11.70 REPLACE ACOUSTICAL TILE CEILING	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP.			
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL		& LABOR
<u>DEMOLITION</u>										
Remove suspended ceiling tiles and set aside for reuse	36,050	SF			0.008	288.40				
Accessories and equipment	1	LOT			80.000	80.00				
Load and haul	4	TONS	6.76	27	0.138	0.55				
Dump charge	4	TONS	74.36	297	0.090	0.36				
SUBTOTAL:				\$324		369.31 HRS	\$90.22	\$33,319		\$33,643
<u>INTERIOR CONSTRUCTION (SUBCONTRACTOR)</u>										
<u>Ceilings</u>										
Reinstall acoustical ceiling tile (allow 10% damage)	32,445	SF			0.044	1,427.58				
Replace tiles (10%)	3,605	SF	3.18	11,464	0.025	90.13				
SUBTOTAL:				\$11,464		1,517.71 HRS	\$73.31	\$111,263		\$122,727
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			2,293					22,253	24,546
<u>ELECTRICAL (SUBCONTRACTOR)</u>										
Temporarily remove and reinstall light fixtures	1	LOT	1457.00	1,457	120.000	120.00				
SUBTOTAL HOURS:						120.00 HRS				
Premium Time	10.00%					12.00				
SUBTOTAL:				\$1,457		132.00 HRS	\$95.83	\$12,650		\$14,107

11.00 RENOVATION

11.70 REPLACE ACOUSTICAL TILE CEILING	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL		TOTAL
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	& LABOR	
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			291				2,530	2,821	

TOTAL 11.70 REPLACE ACOUSTICAL TILE CEILING:
COST PER SQUARE FOOT:
GROSS FLOOR AREA:

\$ 197,844
\$ 5.49 /SF
36,050 SF

11.00 RENOVATION

11.00 RENOVATION									
11.71 REPLACE GYPBOARD CEILING	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>DEMOLITION</u>									
Remove existing ceiling	36,050	SF			0.013	468.65			
Accessories and equipment	1	LOT			80.000	80.00			
Load and haul	55	TONS	6.76	372	0.138	7.59			
Dump charge	55	TONS	74.36	4,090	0.090	4.95			
SUBTOTAL:				\$4,462		561.19 HRS	\$90.22	\$50,631	\$55,093
<u>INTERIOR CONSTRUCTION (GENERAL CONTRACTOR)</u>									
New 5/8" Type X gypboard ceiling, taped and sanded	36,050	SF	1.41	50,831	0.031	1,117.55			
Nailers	5,650	LF	1.30	7,345	0.035	197.75			
SUBTOTAL:				\$58,176		1,315.30 HRS	\$89.17	\$117,285	\$175,461
<u>INTERIOR CONSTRUCTION (SUBCONTRACTOR)</u>									
Paint gypboard ceiling	36,050	SF	0.95	34,248	0.025	901.25			
SUBTOTAL:				\$34,248		901.25 HRS	\$73.31	\$66,071	\$100,319
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			6,850				13,214	20,064
<u>ELECTRICAL (SUBCONTRACTOR)</u>									
Temporarily remove and reinstall light fixtures	1	LOT	1457.00	1,457	120.000	120.00			
SUBTOTAL HOURS:						120.00			
Premium Time	10.00%					12.00			
SUBTOTAL:				\$1,457		132.00 HRS	\$95.83	\$12,650	\$14,107

11.00 RENOVATION

11.71 REPLACE GYPBOARD CEILING	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		Rate	TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal			TOTAL	
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			291					2,530	2,821

TOTAL 11.71 REPLACE GYPBOARD CEILING:
COST PER SQUARE FOOT:
GROSS FLOOR AREA:

\$ 367,865
\$ 10.20 /SF
36,050 SF

11.00 RENOVATION

11.00 RENOVATION									
11.81 REPLACE TOILET PARTITIONS	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP.		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
<u>DEMOLITION</u>									
Toilet partitions and accessories	9	EA			1.000	9.00			
Load and haul	1	TON	6.76	7	0.138	0.14			
Dump charge	1	TON	74.36	74	0.090	0.09			
SUBTOTAL:				\$81		9.23 HRS	\$90.22	\$833	\$914
<u>INTERIOR CONSTRUCTION</u>									
<u>Specialties</u>									
New accessories	18	EA	128.00	2,304	0.750	13.50			
Toilet partition	5	EA	1176.00	5,880	3.200	16.00			
Toilet partition, handicapped accessible	4	EA	1258.00	5,032	4.600	18.40			
SUBTOTAL:				\$13,216		47.90 HRS	\$89.17	\$4,271	\$17,487
TOTAL 11.81 REPLACE TOILET PARTITIONS:								\$ 18,401	
COST PER UNIT:								\$ 2,044.56 /EA	
NUMBER OF UNITS:								9 EA	

11.00 RENOVATION

11.00 RENOVATION									
11.82 REPLACE TOILET ACCESSORIES	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP.		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
<u>DEMOLITION</u>									
Toilet accessories	175	EA			0.172	30.10			
Load and haul	1	TON	6.76	7	0.138	0.14			
Dump charge	1	TON	74.36	74	0.090	0.09			
SUBTOTAL:				\$81		30.33 HRS	\$90.22	\$2,736	\$2,817
<u>INTERIOR CONSTRUCTION</u>									
<u>Specialties</u>									
Toilet accessories	175	EA	128.00	22,400	0.750	131.25			
SUBTOTAL:				\$22,400		131.25 HRS	\$89.17	\$11,704	\$34,104
TOTAL 11.82 REPLACE TOILET ACCESSORIES:								\$ 36,921	
COST PER UNIT:								\$ 210.98 /EA	
NUMBER OF UNITS:								175 EA	

11.00 RENOVATION

11.00 RENOVATION									
11.83 ADD SMART BOARDS	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>SPECIALTIES</u>									
Smart boards with control module	20	EA	5907.00	118,140	12.500	250.00			
SUBTOTAL:				\$118,140		250.00 HRS	\$89.17	\$22,293	\$140,433
<u>ELECTRICAL (SUBCONTRACTOR)</u>									
Smartboard interface	20	EA	1830.00	36,600	17.700	354.00			
3/4" diameter EMT conduit	600	LF	1.10	660	0.062	37.20			
Cat 6 cable	1,000	LF	1.00	1,000	0.015	15.00			
Cutting and patching	1	LOT	238.00	238	7.500	7.50			
SUBTOTAL HOURS:						413.70 HRS			
Premium Time	10.00%					41.37			
SUBTOTAL:				\$38,498		455.07 HRS	\$95.83	\$43,609	\$82,107
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			7,700				8,722	16,422
TOTAL 11.83 ADD SMART BOARDS:								\$ 238,962	
COST PER BOARD:								\$ 11,948.10 /EA	
NUMBER OF BOARDS (CLASSROOMS):								20 EA	

11.00 RENOVATION

11.84 REPLACE SPORTS EQUIPMENT AND LOCKERS (SMALL GYM)

11.00 RENOVATION									
11.84 REPLACE SPORTS EQUIPMENT AND LOCKERS (SMALL GYM)									
	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>DEMOLITION</u>									
Lockers and equipment	1	LOT			20.000	20.00			
Load and haul	3	TONS	6.76	20	0.138	0.41			
Dump charge	3	TONS	74.36	223	0.090	0.27			
<i>SUBTOTAL:</i>				<u>\$243</u>		<i>20.68 HRS</i>	<i>\$90.22</i>	<u>\$1,866</u>	<i>\$2,109</i>
<u>INTERIOR CONSTRUCTION</u>									
<u>Specialties</u>									
Locker	50	EA	350.00	17,500	0.900	45.00			
Locker base support	52	BF	2.14	111	0.033	1.72			
<i>SUBTOTAL:</i>				<u>\$17,611</u>		<i>46.72 HRS</i>	<i>\$89.17</i>	<u>\$4,166</u>	<i>\$21,777</i>
<u>EQUIPMENT</u>									
<u>Sports Equipment</u>									
Basketball goal, wall mounted (height adjustable)	2	EA	3590.00	7,180	16.060	32.12			
Floor insert	4	EA	267.50	1,070	1.750	7.00			
Chinning bar	2	EA	465.00	930	2.850	5.70			
Climbing pegboard	2	EA	422.00	844	2.850	5.70			
<i>SUBTOTAL:</i>				<u>\$10,024</u>		<i>50.52 HRS</i>	<i>\$89.17</i>	<u>\$4,505</u>	<i>\$14,529</i>
TOTAL 11.84 REPLACE SPORTS EQUIPMENT AND LOCKERS (SMALL GYM):									\$ 38,415 EA

11.00 RENOVATION

11.85 REPLACE BLEACHERS	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
Remove existing bleacher seating	160	SEATS			0.380	60.80			
Load and haul	3	TONS	6.76	20	0.1380	0.41			
Dump charges	3	TONS	74.36	223	0.090	0.27			
New telescoping bleacher assembly (15-tier assumed)	160	SEATS	225.00	36,000	0.533	85.28			
<i>SUBTOTAL HOURS:</i>						<u>146.76 HRS</u>			
Premium Time	10.00%					14.68			
<i>SUBTOTAL:</i>				<u>\$36,243</u>		<u>161.44 HRS</u>	<u>\$87.33</u>	<u>\$14,099</u>	<u>\$50,342</u>
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			7,249				2,820	10,069

TOTAL 11.85 REPLACE BLEACHERS:
COST PER SEAT:
NUMBER OF SEATS:

\$ 60,411
\$ 377.57 /EA
160 EA

11.00 RENOVATION

**11.86 REPLACE TACK/CHALK/MARKER
BOARDS**

	Qty	MATERIAL/EQUIPMENT				LABOR			TOTAL	TOTAL MATERIAL/EQUIP. & LABOR
		Unit	Rate	TOTAL	Hours	Subtotal	Rate			
<u>DEMOLITION</u>										
Accessories and equipment	1	LOT			10.000	10.00				
Load and haul	1	TON	6.76	7	0.138	0.14				
Dump charge	1	TON	74.36	74	0.090	0.09				
SUBTOTAL:				\$81		10.23 HRS	\$90.22		\$923	\$1,004

INTERIOR CONSTRUCTION

Specialties

Chalk boards/white boards	768	SF	28.40	21,811	0.025	19.20				
Tack board	768	SF	10.85	8,333	0.020	15.36				
SUBTOTAL:				\$30,144		34.56 HRS	\$89.17		\$3,082	\$33,226

TOTAL 11.86 REPLACE TACK/CHALK/MARKER BOARDS:
COST PER SQUARE FOOT:
BOARD AREA:

\$ 34,230
\$ 22.29 /SF
1,536 SF

11.00 RENOVATION

11.00 RENOVATION									
11.87 REPLACE BASE CABINET UNITS	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>DEMOLITION</u>									
Remove existing base unit	100	LF			0.300	30.00			
Load and haul	1	TON	6.76	7	0.138	0.14			
Dump charge	1	TON	74.36	74	0.090	0.09			
SUBTOTAL:				\$81		30.23 HRS	\$90.22	\$2,727	\$2,808
<u>FURNISHINGS</u>									
New 24" deep base units with plastic laminate top, 3'0" high	100	LF	327.00	32,700	0.750	75.00			
SUBTOTAL:				\$32,700		75.00 HRS	\$89.17	\$6,688	\$39,388

TOTAL 11.87 REPLACE BASE CABINET UNITS:
COST PER LF:
TOTAL LENGTH:

\$ 42,196
\$ 421.96 /LF
100 LF

11.00 RENOVATION

11.00 RENOVATION										
11.88 REPLACE WALL HUNG UNITS	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP.			
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR	
<u>DEMOLITION</u>										
Remove existing wall unit	100	LF			0.025	2.50				
Load and haul	0.75	TON	6.76	5	0.138	0.10				
Dump charge	0.75	TON	74.36	56	0.090	0.07				
SUBTOTAL:				\$61		2.67 HRS	\$90.22	\$241		\$302
<u>FURNISHINGS</u>										
New 2'6" high wall hung units	100	LF	240.00	24,000	0.520	52.00				
SUBTOTAL:				\$24,000		52.00 HRS	\$89.17	\$4,637		\$28,637

TOTAL 11.88 REPLACE WALL HUNG UNITS:
COST PER LF:
TOTAL LENGTH:

\$ 28,939
\$ 289.39 /LF
100 LF

11.00 RENOVATION

11.89 REPLACE WINDOW COVERINGS	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL		TOTAL & LABOR
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL		
Remove and dispose existing window blinds	3,000	SF	0.05	150	0.017	51.00				
New horizontal window blinds	3,000	SF	26.50	79,500	0.106	318.00				
SUBTOTAL:				\$79,650		369.00 HRS	\$87.33	\$32,225		\$111,875

TOTAL 11.89 REPLACE WINDOW COVERINGS:
COST PER SF:
AREA:

\$ 111,875
\$ 37.29 /SF
3,000 SF

11.00 RENOVATION

11.00 RENOVATION									
11.101 NEW TWO-STOP ELEVATOR	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>DEMOLITION</u>									
Saw cut concrete slab on grade	28	LF	1.06	30	0.162	4.54			
Break-up and remove concrete	48	SF			0.105	5.04			
Remove ceiling tile	360	SF			0.011	3.96			
Saw cut supported floor structure	28	LF			0.085	2.38			
Demolish and remove floor	48	SF			0.035	1.68			
Remove existing partition	308	SF			0.018	5.54			
Remove floor finish	360	SF			0.012	4.32			
Load and haul	5.50	TONS	6.76	37	0.138	0.76			
Dump charges	5.50	TONS	74.36	409	0.090	0.50			
<i>SUBTOTAL:</i>				<u>\$476</u>		<u>28.72 HRS</u>	<u>\$90.22</u>	<u>\$2,591</u>	<u>\$3,067</u>
<u>SUBSTRUCTURE</u>									
Hand excavate and dispose fill at pit	6	CY			1.250	7.50			
Concrete pit, base, walls and sump, small quantity	3	CY	318.00	954	2.000	6.00			
Reinforcing steel	350	LBS	1.33	466	0.010	3.50			
Formwork to sides of wall	84	SF	4.25	357	0.250	21.00			
Dowel into existing	24	EA	7.49	180	0.320	7.68			
Finish to concrete	48	SF	0.37	18	0.040	1.92			
Pump concrete	3	CY	65.00	195					
<i>SUBTOTAL:</i>				<u>\$2,170</u>		<u>47.60 HRS</u>	<u>\$87.33</u>	<u>\$4,157</u>	<u>\$6,327</u>

11.00 RENOVATION

11.00 RENOVATION									
11.101 NEW TWO-STOP ELEVATOR	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>INTERIOR CONSTRUCTION</u>									
2"x4" studs, 16" o/c	885	LF	1.09	965	0.025	22.13			
(2) layers 5/8" gypboard taped and sanded	1,628	SF	2.41	3,923	0.048	78.14			
Sound insulation	814	SF	0.88	716	0.007	5.70			
3'0"x7'0" hollow metal rated door frame	1	EA	513.00	513	1.000	1.00			
Hollow metal rated door	1	EA	1326.00	1,326	0.750	0.75			
Hardware to rated single door	1	EA	1605.00	1,605	2.750	2.75			
SUBTOTAL:				\$9,048	110.47 HRS	\$89.17	\$9,851	\$18,899	
<u>FINISHES (SUBCONTRACTOR)</u>									
Paint door frame	1	EA	16.21	16	0.450	0.45			
Paint door	1	EA	19.08	19	0.930	0.93			
Paint walls	1,628	SF	0.95	1,547	0.019	30.93			
Patch floor finish	312	SF	4.13	1,289	0.050	15.60			
4" rubber base	92	LF	1.52	140	0.025	2.30			
Reinstall acoustical ceiling	281	SF	5.09	1,430	0.044	12.36			
Replace tile	31	SF	3.21	100	0.025	0.78			
SUBTOTAL:				\$4,541	63.35 HRS	\$73.31	\$4,644	\$9,185	
Subcontractor's Overhead and Profit on Materials and Labor									
	20.00%			908			929	1,837	

11.00 RENOVATION

11.00 RENOVATION										
11.101 NEW TWO-STOP ELEVATOR	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR			
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL		
<u>ELEVATOR (SUBCONTRACTOR)</u>										
Install new two-stop holeless passenger elevator, 5'0"x7'0" cab, 2,500# capacity, 80 fpm	1	EA	115000.00	115,000	300.000	300.00				
SUBTOTAL:				\$115,000		300.00 HRS	\$132.34	\$39,702	\$154,702	
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			23,000				7,940	30,940	
<u>MECHANICAL (SUBCONTRACTOR)</u>										
Relocate sprinkler head	1	EA	184.00	184	5.000	5.00				
1/3 HP sump pump, including oil detector controls	1	EA	2177.00	2,177	2.850	2.85				
Piping and connection	1	LOT	530.00	530	10.000	10.00				
SUBTOTAL HOURS:						17.85 HRS				
Premium Time	10.00%					1.79				
SUBTOTAL:				\$2,891		19.64 HRS	\$90.19	\$1,771	\$4,662	
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			578				354	932	
<u>ELECTRICAL (SUBCONTRACTOR)</u>										
Relocate light fixture	4	EA	15.90	64	2.100	8.40				
Relocate device	4	EA	6.36	25	1.250	5.00				
Elevator connection	1	EA	233.00	233	10.000	10.00				
Pump connection	1	EA	55.65	56	1.750	1.75				
Thermal switch	1	EA	57.24	57	0.600	0.60				

11.00 RENOVATION

11.00 RENOVATION									
11.101 NEW TWO-STOP ELEVATOR	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>ELECTRICAL (SUBCONTRACTOR) (Continued)</u>									
Combination motor starter/disconnect switch	1	EA	773.00	773	2.520	2.52			
3/4" diameter EMT conduit	150	LF	1.10	165	0.062	9.30			
1/2" diameter EMT conduit	100	LF	0.63	63	0.047	4.70			
#8 THHN	600	LF	1.00	600	0.010	6.00			
#12 THHN	400	LF	0.40	160	0.007	2.80			
Connection to panel	2	EA	0.53	1	2.000	4.00			
Cutting and patching	1	LOT	238.00	238	2.500	2.50			
SUBTOTAL HOURS:						57.57 HRS			
Premium Time	10.00%					5.76			
SUBTOTAL:				\$2,435	63.33 HRS	\$95.83	\$6,069	\$8,504	
Subcontractor's Overhead and Profit on Materials and Labor				20.00%	487			1,214	1,701
TOTAL 11.101 NEW TWO-STOP ELEVATOR:									\$ 240,756 EA

11.00 RENOVATION

11.00 RENOVATION						TOTAL	
11.102 REPLACE WHEELCHAIR LIFT	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR
		Unit	Rate	TOTAL	Hours	Subtotal	
Disconnect and remove existing wheelchair lift and dispose	1	EA	159.00	159	8.000	8.00	
New wheelchair lift	1	EA	20410.00	20,410	32.000	32.00	
<i>SUBTOTAL HOURS:</i>						<u>40.00</u>	<i>HRS</i>
Premium Time	10.00%					4.00	
<i>SUBTOTAL:</i>				<u>\$20,569</u>	<u>44.00</u>	<i>HRS</i>	<u>\$95.83</u>
							<u>\$4,217</u>
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			4,114			843
							4,957

TOTAL 11.102 REPLACE WHEELCHAIR LIFT:

\$ 29,743 EA

11.00 RENOVATION

11.00 RENOVATION									
11.111 REPLACE PLUMBING FIXTURES ONLY	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP.		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
<u>PLUMBING DEMOLITION</u>									
Remove plumbing fixtures	49	EA			1.500	73.50			
Load and haul	2	TONS	6.76	14	0.138	0.28			
Dump charge	2	TONS	74.36	149	0.090	0.18			
<u>NEW CONSTRUCTION</u>									
<u>Finishes</u>									
Patch and repair existing	1	LOT	371.00	371	30.000	30.00			
<u>PLUMBING FIXTURES</u>									
Standard water closet, wall mounted, flush valve and carrier	13	EA	1,140.00	14,820	4.700	61.10			
Handicapped water closet	6	EA	1,030.00	6,180	5.000	30.00			
Urinal, flush valve and carrier	6	EA	1,075.00	6,450	3.850	23.10			
Counter lavatory basin	18	EA	504.00	9,072	3.526	63.47			
Mop sink	2	EA	675.00	1,350	4.776	9.55			
Stainless steel drinking fountain cooler	4	EA	1790.00	7,160	4.500	18.00			
3" diameter cast iron waste, vent pipes and fittings	95	LF	19.32	1,835	0.267	25.37			
2" diameter cast iron waste, vent pipes and fittings	150	LF	13.92	2,088	0.254	38.10			
Connection to existing	16	EA	216.00	3,456	2.000	32.00			
1 1/2" diameter hot and cold water pipe and coupling	40	LF	23.47	939	0.228	9.12			

11.00 RENOVATION

11.00 RENOVATION									
11.111 REPLACE PLUMBING FIXTURES ONLY	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP.		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
PLUMBING FIXTURES (Continued)									
1" diameter hot and cold water pipe and coupling	72	LF	11.93	859	0.177	12.74			
3/4" diameter hot and cold water pipe and coupling	132	LF	7.95	1,049	0.157	20.72			
1/2" diameter hot and cold water pipe and coupling	170	LF	4.88	830	0.149	25.33			
Fitting	80	EA	16.41	1,313	0.500	40.00			
1 1/2" insulation	414	LF	6.00	2,484	0.079	32.71			
Valves	1	LOT	2895.00	2,895	10.000	10.00			
Connection to existing	16	EA	90.00	1,440	1.500	24.00			
SUBTOTAL HOURS:						579.27 HRS			
Premium time	10.00%					57.93			
SUBTOTAL:				\$64,754	637.20 HRS	\$90.19	\$57,469	\$122,223	
Subcontractor's Overhead and Profit on Materials and Labor				20.00%	12,951			11,494	24,445
TOTAL 11.111 REPLACE PLUMBING FIXTURES ONLY: \$ 146,668 COST PER FIXTURE: \$ 2,993.22 /EA NO. OF FIXTURES: 49 EA									

11.00 RENOVATION

11.00 RENOVATION									
11.112 REPLACE ENTIRE PLUMBING SYSTEM	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP.		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
<u>PLUMBING DEMOLITION</u>									
Remove plumbing fixtures	49	EA			1.250	61.25			
Remove existing system	41,400	SF			0.100	4,140.00			
Load and haul	8	TONS	6.76	54	0.138	1.10			
Dump charges	8	TONS	74.36	595	0.090	0.72			
SUBTOTAL:				\$649		4,203.07 HRS	\$90.22	\$379,201	\$379,850
<u>MECHANICAL</u>									
<u>Cast Iron Waste, Vent Pipes and Fittings</u>									
4" diameter pipe and fittings	520	LF	25.20	13,104	0.291	151.32			
3" diameter pipe and fittings	590	LF	19.32	11,399	0.267	157.53			
2" diameter pipe and fittings	1,000	LF	13.92	13,920	0.254	254.00			
4" floor cleanout	6	EA	188.00	1,128	1.333	8.00			
3" VTR	4	EA	192.00	768	1.700	6.80			
4" VTR	2	EA	255.00	510	1.800	3.60			
Patch roofing	1	LOT	1166.00	1,166	10.000	10.00			
<u>Hot and Cold Water Pipes and Fittings</u>									
2" diameter copper pipe	180	LF	32.31	5,816	0.200	36.00			
1 1/2" diameter copper pipe	270	LF	20.65	5,576	0.160	43.20			

11.00 RENOVATION

11.00 RENOVATION									
11.112 REPLACE ENTIRE PLUMBING SYSTEM	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP.		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL & LABOR	
<u>MECHANICAL (Continued)</u>									
<u>Hot and Cold Water Pipes and Fittings (Continued)</u>									
1 1/4" diameter copper pipe	100	LF	16.27	1,627	0.143	14.30			
1" diameter copper pipe	430	LF	9.07	3,900	0.121	52.03			
3/4" diameter copper pipe	500	LF	6.17	3,085	0.108	54.00			
1/2" diameter copper pipe	580	LF	3.77	2,187	0.103	59.74			
Fittings, couplings and clips	1	LOT	8136.00	8,136	52.470	52.47			
1 1/2" insulation	2,060	LF	6.00	12,360	0.079	162.74			
Valves	1	LOT	5760.00	5,760	30.000	30.00			
Cutting and patching to install system	1	LOT	1272.00	1,272	50.000	50.00			
<u>Install New Plumbing Fixtures</u>									
Standard wall mounted water closet	13	EA	1140.00	14,820	4.100	53.30			
Handicapped wall mounted water closet	6	EA	1030.00	6,180	4.500	27.00			
Urinal, flush valve and carrier	6	EA	1075.00	6,450	3.350	20.10			
Counter lavatory basin	18	EA	504.00	9,072	3.026	54.47			
Mop sink	2	EA	675.00	1,350	4.276	8.55			
Stainless steel drinking fountain cooler with bottle refill station	4	EA	1790.00	7,160	4.000	16.00			
Stainless steel classroom sink	15	EA	510.00	7,650	4.276	64.14			
Work room sink	1	EA	588.00	588	4.276	4.28			

11.00 RENOVATION

11.00 RENOVATION									
11.112 REPLACE ENTIRE PLUMBING SYSTEM	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>MECHANICAL (Continued)</u>									
<u>Install New Plumbing Fixtures (Continued)</u>									
Nurse's sink	1	EA	640.00	640	4.276	4.28			
Three-compartment sink	1	EA	2450.00	2,450	4.750	4.75			
Hand sink	1	EA	530.00	530	4.276	4.28			
Shower stall and controls	2	EA	1985.00	3,970	4.750	9.50			
Connection to kitchen equipment	1	LOT	1032.00	1,032	10.000	10.00			
2" to 3" diameter floor drain	8	EA	185.00	1,480	1.400	11.20			
Non-freeze hose bib	4	EA	135.00	540	0.750	3.00			
Hot water heater with tank/generator	1	EA	8350.00	8,350	16.000	16.00			
Circulation pump	1	EA	1321.00	1,321	3.100	3.10			
20 GPM grease interceptor	1	EA	4828.00	4,828	3.065	3.07			
<u>Gas/Fuel Oil</u>									
1" diameter supply line	20	LF	5.04	101	0.228	4.56			
Connection to equipment	1	EA	233.00	233	2.000	2.00			
SUBTOTAL HOURS:					1,469.31 HRS				
Premium Time	10.00%					146.93			
SUBTOTAL:				\$170,459	1,616.24 HRS	\$90.19	\$145,769	\$316,228	
Subcontractor's Overhead and Profit on Materials and Labor				20.00%	34,092		29,154	63,246	

11.00 RENOVATION

11.00 RENOVATION									
11.112 REPLACE ENTIRE PLUMBING SYSTEM	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>ELECTRICAL</u>									
Connections to equipment	2	EA	42.40	85	1.750	3.50			
Thermal switch	2	EA	57.00	114	0.600	1.20			
3/4" diameter EMT conduit	60	LF	1.10	66	0.062	3.72			
#10 THHN	250	LF	0.58	145	0.008	2.00			
SUBTOTAL HOURS:						10.42 HRS			
Premium Time	10.00%					1.04			
SUBTOTAL:				\$410	11.46 HRS	\$95.83	\$1,098	\$1,508	
Subcontractor's Overhead and Profit on Materials and Labor									
	20.00%					82		220	302

TOTAL 11.112 - REPLACE ENTIRE PLUMBING SYSTEM:
COST PER SQUARE FOOT:
GROSS FLOOR AREA:

\$ 761,134
\$ 18.38 /SF
41,400 SF

11.00 RENOVATION

**11.113 REPLACE PLUMBING - DOMESTIC
WATER PIPING**

11.00 RENOVATION 11.113 REPLACE PLUMBING - DOMESTIC WATER PIPING	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP.	
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL & LABOR
<u>DEMOLITION</u>								
Disconnect from fixtures and equipment	77	EA			0.500	38.50		
Remove up to 1 1/2" diameter piping	1,880	LF			0.045	84.60		
Remove 2" to 3 1/2" diameter piping	180	LF			0.055	9.90		
Dispose debris	4	LDS	74.36	297	1.780	7.12		
Provide for access to replace piping	1,360	LF	4.16	5,658	0.170	231.20		
Removal/replacement for access to work	41,400	SF	0.31	12,834	0.006	248.40		
<u>HOT AND COLD WATER COPPER PIPES AND FITTINGS</u>								
2" diameter copper pipe	180	LF	32.31	5,816	0.200	36.00		
1 1/2" diameter copper pipe	270	LF	20.65	5,576	0.160	43.20		
1 1/4" diameter copper pipe	100	LF	16.27	1,627	0.143	14.30		
1" diameter copper pipe	430	LF	9.07	3,900	0.121	52.03		
3/4" diameter copper pipe	500	LF	6.17	3,085	0.108	54.00		
1/2" diameter copper pipe	580	LF	3.77	2,187	0.103	59.74		
2" diameter coupling	12	EA	32.04	384	0.630	7.56		
1 1/2" diameter coupling	18	EA	26.17	471	0.544	9.79		
1 1/4" diameter coupling	9	EA	24.36	219	0.480	4.32		
1" diameter coupling	29	EA	16.77	486	0.449	13.02		
3/4" diameter coupling	34	EA	5.93	202	0.385	13.09		
1/2" diameter coupling	39	EA	3.82	149	0.370	14.43		

11.00 RENOVATION

**11.113 REPLACE PLUMBING - DOMESTIC
WATER PIPING**

11.00 RENOVATION		MATERIAL/EQUIPMENT				LABOR		TOTAL MATERIAL/EQUIP.	
11.113 REPLACE PLUMBING - DOMESTIC WATER PIPING		Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL & LABOR
HOT AND COLD WATER COPPER PIPES AND FITTINGS (Continued)									
2" diameter fitting (tee/elbow)	9	EA	56.50	509	0.742	6.68			
1 1/2" diameter fitting (tee/elbow)	14	EA	31.00	434	0.626	8.76			
1 1/4" diameter fitting (tee/elbow)	5	EA	19.95	100	0.541	2.71			
1" diameter fitting (tee/elbow)	22	EA	13.45	296	0.505	11.11			
3/4" diameter fitting (tee/elbow)	25	EA	5.50	138	0.425	10.63			
1/2" diameter fitting (tee/elbow)	29	EA	2.44	71	0.403	11.69			
Clips and hangers to support pipes	230	EA	17.64	4,057	0.533	122.59			
Valves and gauges	1	LOT	5,760.00	5,760	30.000	30.00			
1 1/2" insulation	2,060	LF	6.00	12,360	0.079	162.74			
Connection to fixtures and equipment	77	EA	4.77	367	0.850	65.45			
SUBTOTAL HOURS:						1,373.56 HRS			
Premium Time	10.00%					137.36			
SUBTOTAL:				\$66,983		1,510.92 HRS	\$90.19	\$136,270	\$203,253
Subcontractor's Overhead and Profit on Materials and Labor		20.00%			13,397			27,254	40,651
TOTAL 11.113 REPLACE PLUMBING - DOMESTIC WATER PIPING:									\$ 243,904
COST PER SQUARE FOOT:									\$ 5.89 /SF
GROSS FLOOR AREA:									41,400 SF

11.00 RENOVATION

11.00 RENOVATION											
11.114 REPLACE PLUMBING - WASTE PIPING	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP.			
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	& LABOR		
<u>DEMOLITION</u>											
Disconnect from fixtures and equipment	82	EA			0.330	27.06					
Remove piping	2,110	LF			0.160	337.60					
Dispose debris	6	LDS	74.36	446	1.780	10.68					
Provide for access to replace piping	2,110	LF	5.72	12,069	0.220	464.20					
Removal/replacement for access to work	41,400	SF	0.31	12,834	0.006	248.40					
<u>CAST IRON WASTE/VENT PIPES AND FITTINGS</u>											
4" diameter pipe and fittings	520	LF	25.20	13,104	0.291	151.32					
3" diameter pipe and fittings	590	LF	19.32	11,399	0.267	157.53					
2" diameter pipe and fittings	1,000	LF	13.92	13,920	0.254	254.00					
4" floor cleanout	6	EA	188.00	1,128	1.333	8.00					
3" VTR	4	EA	192.00	768	1.700	6.80					
4" VTR	2	EA	255.00	510	1.800	3.60					
Connection to fixtures and equipment	82	EA	3.71	304	1.050	86.10					
SUBTOTAL HOURS:						1,755.29 HRS					
Premium Time	10.00%						175.53				
SUBTOTAL:				\$66,178		1,930.82 HRS		\$90.19	\$174,141	\$240,319	

11.00 RENOVATION

11.114 REPLACE PLUMBING - WASTE PIPING	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			13,236				34,828	48,064

TOTAL 11.114 REPLACE PLUMBING - WASTE PIPING:
COST PER SQUARE FOOT:
GROSS FLOOR AREA:

\$ 288,383
\$ 6.97 /SF
41,400 SF

11.00 RENOVATION

11.00 RENOVATION									
11.115 REPLACE HEATING SYSTEMS	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>DEMOLITION</u>									
Remove existing heating system	41,400	SF			0.020	828.00			
Remove electrical conduit and wire	1,020	LF			0.005	5.10			
Dump charges	13	TONS	74.36	967	1.780	23.14			
SUBTOTAL:				\$967		856.24 HRS	\$90.22	\$77,250	\$78,217
<u>MECHANICAL</u>									
<u>Heating</u>									
1,600 MBH cast iron oil/gas fired boiler hot water/glycol with controls, etc.	2	EA	76000.00	152,000	115.000	230.00			
Flue and breaching	28	LF	101.00	2,828	0.450	12.60			
Flue cap	1	EA	485.00	485	2.000	2.00			
55 gallon expansion tank	1	EA	2426.00	2,426	3.000	3.00			
Air separator, 3" strainer	1	EA	3410.00	3,410	4.000	4.00			
Glycol make-up tank with feed pump	1	LOT	1800.00	1,800	6.700	6.70			
Glycol	330	GALS	13.50	4,455	0.045	14.85			
3" diameter circulation pumps	2	EA	2975.00	5,950	4.000	8.00			
3" diameter glycol supply and return copper pipes with fittings	300	LF	73.32	21,996	0.451	135.30			
2 1/2" diameter glycol supply and return pipes with fittings	200	LF	51.12	10,224	0.422	84.40			

11.00 RENOVATION

11.00 RENOVATION									
11.115 REPLACE HEATING SYSTEMS	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>MECHANICAL (Continued)</u>									
<u>Heating (Continued)</u>									
2" diameter glycol supply and return copper pipes with fittings	500	LF	29.94	14,970	0.293	146.50			
1 1/2" diameter glycol supply and return pipes with fittings	550	LF	18.78	10,329	0.238	130.90			
1 1/4" diameter glycol supply and return pipes with fittings	250	LF	14.94	3,735	0.211	52.75			
1" diameter glycol supply and return pipes with fittings	650	LF	9.78	6,357	0.184	119.60			
3/4" diameter glycol supply and return pipes with fittings	800	LF	6.06	4,848	0.162	129.60			
Miscellaneous fittings, couplings and clips not above	1	LOT	5088.00	5,088	19.780	19.78			
Valves and gauges	1	LOT	10620.00	10,620	60.000	60.00			
2" insulation to pipes	3,250	LF	12.70	41,275	0.089	289.25			
Cabinet unit heaters	6	EA	1895.00	11,370	4.000	24.00			
Unit heaters	6	EA	760.00	4,560	3.350	20.10			
(2) rows fin tube and enclosure	880	LF	65.00	57,200	0.640	563.20			
Testing and balancing	26	UNITS			2.000	52.00			
Connect to controls	1	LOT	3264.00	3,264	66.000	66.00			
Cutting and patching	1	LOT	1272.00	1,272	50.000	50.00			

11.00 RENOVATION

11.00 RENOVATION									
11.115 REPLACE HEATING SYSTEMS	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>MECHANICAL (Continued)</u>									
<u>Gas/Fuel Oil</u>									
1" diameter supply line	100	LF	5.04	504	0.228	22.80			
Connection to equipment	3	EA	264.00	792	2.000	6.00			
SUBTOTAL HOURS:						2,253.33	HRS		
Premium Time	10.00%					225.33			
SUBTOTAL:				\$381,758		2,478.66	HRS	\$90.19	\$223,550
Subcontractor's Overhead and Profit on Materials and Labor				20.00%	76,352			44,710	121,062
<u>ELECTRICAL</u>									
5 HP to 1 HP connection	3	EA	78.00	234	1.800	5.40			
Fractional motor connection	15	EA	50.00	750	1.750	26.25			
Thermal switches	12	EA	54.00	648	0.600	7.20			
Combination motor starter/disconnect switches	3	EA	730.00	2,190	2.520	7.56			
Connections to existing	1	LOT	250.00	250	6.000	6.00			
<u>Conduit and Wiring</u>									
1" diameter EMT conduit	600	LF	2.03	1,218	0.070	42.00			
3/4" diameter EMT conduit	120	LF	1.10	132	0.062	7.44			
1/2" diameter EMT conduit	300	LF	0.63	189	0.047	14.10			
#6 THHN	2,400	LF	1.30	3,120	0.013	31.20			

11.00 RENOVATION

11.00 RENOVATION									
11.115 REPLACE HEATING SYSTEMS	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>ELECTRICAL (Continued)</u>									
<u>Conduit and Wiring (Continued)</u>									
#8 THHN	600	LF	0.91	546	0.010	6.00			
#10 THHN	600	LF	0.64	384	0.008	4.80			
#12 THHN	1,200	LF	0.36	432	0.007	8.40			
SUBTOTAL HOURS:						166.35 HRS			
Premium Time	10.00%					16.64			
SUBTOTAL:				\$10,093		182.99 HRS	\$95.83	\$17,536	\$27,629
Subcontractor's Overhead and Profit on Materials and Labor									
	20.00%			2,019				3,507	5,526

TOTAL 11.115 REPLACE HEATING SYSTEMS:
COST PER SQUARE FOOT:
GROSS FLOOR AREA:

\$ 837,742
\$ 20.24 /SF
41,400 SF

11.00 RENOVATION

11.116 REPLACE BOILER(S) INCLUDING PARTIAL BOILER ROOM RE-PIPING	Qty	MATERIAL/EQUIPMENT			LABOR		MATERIAL/EQUIP.	
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL & LABOR
<u>DEMOLITION</u>								
Demolition of existing 1,600 MBH boiler	2	EA			60.000	120.00		
Partial demolition of boiler room piping as required for boiler replacement, including valves, devices, and fittings	150	LF			0.160	24.00		
Drain down glycol and dispose	300	GAL			1.250	375.00		
Remove boiler circulation pump	2	EA			1.330	2.66		
Remove 10" flue/breeching	28	LF			0.053	1.48		
Load and haul	5	TONS	6.76	34	0.138	0.69		
Dump charges	5	TONS	74.36	372	1.780	8.90		
<u>NEW WORK</u>								
New 1,600 MBH, dual fuel boiler	2	EA	76000.00	152,000	115.000	230.00		
New 10" diameter stainless steel, double wall flue and breeching	28	LF	101.00	2,828	0.450	12.60		
New flue cap	1	EA	485.00	485	2.000	2.00		
New 3" circulation pump	2	EA	2975.00	5,950	4.000	8.00		
New glycol fluid	330	GAL	13.50	4,455	0.045	14.85		
Allowance for new 3" diameter boiler room piping, including valves, fittings, and devices	1	LOT	8034.00	8,034	40.000	40.00		
Pipe insulation	150	LF	12.70	1,905	0.089	13.35		
Disconnect/reconnect fuel piping	4	EA	18.00	72	1.150	4.60		

11.00 RENOVATION

11.116 REPLACE BOILER(S) INCLUDING PARTIAL BOILER ROOM RE-PIPING	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		MATERIAL/EQUIP.	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	& LABOR
NEW WORK (Continued)									
Testing and balancing	1	LOT			16.000	16.00			
SUBTOTAL HOURS:						874.13	HRS		
Premium time	10.00%					87.41			
SUBTOTAL:				\$176,135		961.54	HRS	\$90.19	\$86,721
Subcontractor's Overhead and Profit on Materials and Labor				20.00%	35,227			17,344	52,571

TOTAL 11.116 REPLACE BOILER(S) INCLUDING PARTIAL BOILER ROOM RE-PIPING:
COST PER MBH:
TOTAL MBH:

\$ 315,427
\$ 98.57 /MBH
3,200 MBH

11.00 RENOVATION

11.00 RENOVATION									
11.117 REPLACE CABINET UNIT HEATERS	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP.		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
<u>DEMOLITION</u>									
Remove existing cabinet unit heater to disposal	1	EA			2.000	2.00			
<u>NEW WORK</u>									
Cabinet unit heater	1	EA	1895.00	1,895	4.500	4.50			
New 3/4" isolation valve	2	EA	77.53	155	0.500	1.00			
New pressure relief valve	1	EA	137.00	137	0.840	0.84			
New auto air vent	1	EA	92.00	92	0.840	0.84			
New temperature gauge	1	EA	103.00	103	0.710	0.71			
Reconnect to existing piping	2	EA	0.18	0.36	0.840	1.68			
Testing and balancing	1	LOT			2.000	2.00			
SUBTOTAL HOURS:						13.57 HRS			
Premium time	10.00%					1.36			
SUBTOTAL:				\$2,382		14.93 HRS	\$90.19	\$1,347	\$3,729
Subcontractor's Overhead and Profit on Materials and Labor	20.00%				476			269	745
TOTAL 11.117 REPLACE CABINET UNIT HEATERS:									\$ 4,474 EA

11.00 RENOVATION

**11.118 REPLACE HOT WATER GENERATOR
INCLUDING DISPOSAL**

11.00 RENOVATION							TOTAL		
11.118 REPLACE HOT WATER GENERATOR		MATERIAL/EQUIPMENT			LABOR		MATERIAL/EQUIP.		
INCLUDING DISPOSAL	Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
<u>DEMOLITION</u>									
Remove hot water generator including disposal	1	EA	80.00	80	4.500	4.50			
<u>NEW WORK</u>									
New 119 GPH hot water generator	1	EA	8350.00	8,350	16.000	16.00			
3/4" isolation valve	2	EA	77.53	155	0.500	1.00			
Temperature gauge	1	EA	103.00	103	0.710	0.71			
Temperature/pressure relief valve	1	EA	92.00	92	0.840	0.84			
Testing and balancing	1	LOT			2.000	2.00			
<i>SUBTOTAL HOURS:</i>						<u>25.05</u>	<i>HRS</i>		
Premium time	10.00%					2.51			
<i>SUBTOTAL:</i>				<u>\$8,780</u>		<u>27.56</u>	<i>HRS</i>	<u>\$90.19</u>	<u>\$2,486</u>
Subcontractor's Overhead and Profit on Materials and Labor									
	20.00%			1,756				497	2,253

TOTAL 11.118 REPLACE HOT WATER GENERATOR INCLUDING DISPOSAL:
COST PER GPH:
TOTAL GPH:

\$ 13,519
\$ 113.61 /GPH
119 GPH

11.00 RENOVATION

11.00 RENOVATION									
11.119 REPLACE VENTILATION SYSTEMS	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>DEMOLITION</u>									
Remove existing ventilation system	41,400	SF			0.020	828.00			
Remove electrical conduit and wire	680	LF			0.005	3.40			
Dump charges	23	TONS	71.50	1,645	0.090	2.07			
<i>SUBTOTAL:</i>				<i>\$1,645</i>		<i>833.47 HRS</i>	<i>\$90.22</i>	<i>\$75,196</i>	<i>\$76,841</i>
<u>MECHANICAL</u>									
<u>Air Systems</u>									
30,000 CFM outdoor air handling unit with economizer and heat recovery	2	EA	457938.00	915,876	100.000	200.00			
2,000 CFM to 3,000 CFM exhaust fan	2	EA	6950.00	13,900	8.000	16.00			
750 CFM to 1,500 CFM exhaust fan	3	EA	3475.00	10,425	6.500	19.50			
200 CFM to 750 CFM exhaust fan	1	EA	1740.00	1,740	4.000	4.00			
500 CFM to 750 CFM VAV box	50	EA	960.00	48,000	2.250	112.50			
2 SF heating coil	50	EA	890.00	44,500	1.100	55.00			
Galvanized ductwork with hangers and connections	31,000	LBS	4.30	133,300	0.086	2,666.00			
10" diameter flexible duct	600	LF	10.50	6,300	0.150	90.00			
Outside air/exhaust louvers with bird screens	150	SF	93.00	13,950	0.100	15.00			
Under 1 SF damper	20	EA	135.00	2,700	0.400	8.00			

11.00 RENOVATION

11.00 RENOVATION									
11.119 REPLACE VENTILATION SYSTEMS	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP.		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
<u>MECHANICAL (Continued)</u>									
<u>Air Systems (Continued)</u>									
1 SF to 2 SF damper	4	EA	186.00	744	0.650	2.60			
2 SF to 5 SF damper	1	EA	243.00	243	0.750	0.75			
1 SF to 2 SF motorized damper	4	EA	350.00	1,400	2.000	8.00			
Small grille, register or diffuser	75	EA	71.00	5,325	0.500	37.50			
Medium grille, register or diffuser	25	EA	135.00	3,375	0.650	16.25			
Large grille, register or diffuser	6	EA	180.00	1,080	1.000	6.00			
2" insulation	1,000	SF	12.00	12,000	0.049	49.00			
2" lining	600	SF	5.90	3,540	0.043	25.80			
Testing and balancing	105	UNITS			2.000	210.00			
Connect to controls	1	LOT	12320.00	12,320	264.000	264.00			
Cutting and patching	1	LOT	1590.00	1,590	75.000	75.00			
<i>SUBTOTAL HOURS:</i>						<u>3,880.90 HRS</u>			
Premium Time	10.00%					388.09			
<i>SUBTOTAL:</i>				<u>\$1,232,308</u>	<u>4,268.99 HRS</u>	<u>\$90.19</u>	<u>\$385,020</u>	<u>\$1,617,328</u>	
Subcontractor's Overhead and Profit on Materials and Labor	20.00%	246,462						77,004	323,466
<u>ELECTRICAL</u>									
30 HP motor connection	3	EA	350.00	1,050	5.500	16.50			

11.00 RENOVATION

11.00 RENOVATION		MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
11.119 REPLACE VENTILATION SYSTEMS	Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL
<u>ELECTRICAL (Continued)</u>								
10 HP to 7 1/2 HP, 3 phase, 208 volt motor connection	2	EA	102.00	204	2.775	5.55		
5 HP to 1 HP, 3 phase, 208 volt motor connection	7	EA	78.00	546	1.800	12.60		
30 HP variable frequency drive	3	EA	7768.35	23,305	34.000	102.00		
10 HP variable frequency drive	2	EA	3321.45	6,643	17.000	34.00		
Fractional motor connection	3	EA	75.00	225	1.750	5.25		
Thermal switch	6	EA	54.00	324	0.600	3.60		
60 amp fused disconnect switch	3	EA	920.00	2,760	2.460	7.38		
Fused disconnect switch, weatherproof	1	EA	550.00	550	2.830	2.83		
Combination motor starter/disconnect switch	7	EA	730.00	5,110	2.520	17.64		
Connections to existing	1	LOT	435.00	435	12.000	12.00		
<u>Conduit and Wiring</u>								
1" diameter EMT conduit	400	LF	2.03	812	0.070	28.00		
3/4" diameter EMT conduit	80	LF	1.10	88	0.062	4.96		
1/2" diameter EMT conduit	200	LF	0.63	126	0.047	9.40		
#6 THHN	1,600	LF	1.30	2,080	0.013	20.80		
#8 THHN	400	LF	0.91	364	0.010	4.00		
#10 THHN	400	LF	0.64	256	0.008	3.20		

11.00 RENOVATION

11.00 RENOVATION										
11.119 REPLACE VENTILATION SYSTEMS	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP.			
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR	
<u>ELECTRICAL (Continued)</u>										
<u>Conduit and Wiring (Continued)</u>										
#12 THHN	800	LF	0.36	288	0.007	5.60				
SUBTOTAL HOURS:						295.31	HRS			
Premium Time	10.00%					29.53				
SUBTOTAL:				\$45,166		324.84	HRS	\$95.83	\$31,129	\$76,295
Subcontractor's Overhead and Profit on Materials and Labor										
	20.00%			9,033					6,226	15,259

TOTAL 11.119 REPLACE VENTILATION SYSTEMS:
COST PER SQUARE FOOT:
GROSS FLOOR AREA:

\$ 2,109,189
\$ 50.95 /SF
41,400 SF

11.00 RENOVATION

11.00 RENOVATION									
11.120 REPLACE AIR HANDLING UNIT	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>DEMOLITION</u>									
Remove existing air handling unit and associated	1	EA			14.000	14.00			
<u>NEW WORK</u>									
New 30,000 CFM outdoor air handling unit, including economizer and heat recovery device	1	EA	457938.00	457,938	58.000	58.00			
Modify curb/support as required at new unit	1	LOT	265.00	265	6.000	6.00			
Hoisting	1	LOT	1590.00	1,590					
Testing, balancing, and commissioning	1	LOT	156.00	156	8.000	8.00			
<i>SUBTOTAL HOURS:</i>						<u>86.00</u>	<i>HRS</i>		
Premium Time	10.00%					8.60			
<i>SUBTOTAL:</i>				<u>\$459,949</u>		<u>94.60</u>	<i>HRS</i>	<u>\$90.19</u>	<u>\$8,532</u>
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			91,990				1,706	93,696
TOTAL 11.120 REPLACE AIR HANDLING UNIT:								\$ 562,177	
COST PER CFM:								\$ 18.74 /CFM	
TOTAL CFM:								30,000 CFM	

11.00 RENOVATION

11.00 RENOVATION									
11.121 EXHAUST FAN	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>DEMOLITION</u>									
Cutting and removing to provide access for new systems	1	LOT			10.000	10.00			
SUBTOTAL:						10.00 HRS	\$90.22	\$902	\$902
<u>ROOF</u>									
Repair roofing	1	LOT	222.00	222	8.000	8.00			
SUBTOTAL:				\$222		8.00 HRS	\$86.33	\$691	\$913
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			44				138	182
<u>FINISHES</u>									
Repair finishes	1	LOT	477.00	477	20.000	20.00			
SUBTOTAL:				\$477		20.00 HRS	\$73.31	\$1,466	\$1,943
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			95				293	388
<u>MECHANICAL</u>									
750 CFM to 1,500 CFM exhaust fan	1	EA	3475.00	3,475	6.500	6.50			
Galvanized ductwork with hangers and connections	300	LBS	4.30	1,290	0.086	25.80			
Outside air/exhaust louvers with bird screens	4	SF	93.00	372	0.100	0.40			
Small grille, register or diffuser	2	EA	71.00	142	0.500	1.00			
2" insulation	50	SF	12.00	600	0.049	2.45			

11.00 RENOVATION

11.00 RENOVATION										
11.121 EXHAUST FAN	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR			
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL		
<u>MECHANICAL (Continued)</u>										
Test and balance	2	EA			2.000	4.00				
SUBTOTAL HOURS:						40.15 HRS				
Premium Time	10.00%					4.02				
SUBTOTAL:				\$5,879		44.17 HRS	\$90.19	\$3,984		\$9,863
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			1,176				797		1,973
<u>ELECTRICAL</u>										
Fractional motor connection	1	EA	53.00	53	1.750	1.75				
Thermal switch	1	EA	57.00	57	0.600	0.60				
<u>Conduit and Wiring</u>										
3/4" diameter EMT conduit	25	LF	1.10	28	0.062	1.55				
#10 THHN	100	LF	0.64	64	0.008	0.80				
SUBTOTAL HOURS:						4.70 HRS				
Premium Time	10.00%					0.47				
SUBTOTAL:				\$202		5.17 HRS	\$95.83	\$495		\$697
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			40				99		139
TOTAL 11.121 EXHAUST FAN (COST FOR ONE FAN UP TO 1,500 CFM):									\$ 17,000 EA	
ALTERNATIVE COST PER CFM (BASED ON 1,000 CFM):									\$ 17.00 CFM	

11.00 RENOVATION

11.00 RENOVATION									
11.122 NEW COOLING SYSTEMS	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>COMPUTER ROOM COOLING (SUBCONTRACTOR)</u>									
3 ton, DX rooftop air condition unit with remote condenser	1	EA	37060.00	37,060	32.000	32.00			
Refrigerant, 30 lbs. cylinder	240	LBS	16.50	3,960		Included			
2" diameter coolant supply and return pipes with fittings	250	LF	29.42	7,355	0.160	40.00			
1" diameter coolant supply and return pipes with fittings	250	LF	11.45	2,863	0.120	30.00			
2" diameter circulation pump	1	EA	1565.00	1,565	3.250	3.25			
Valves and gauges	1	LOT	1820.00	1,820	16.000	16.00			
(2) rows coil (10 SF)	2	EA	3530.00	7,060	4.000	8.00			
1 1/2" insulation	800	LF	8.27	6,616	0.083	66.40			
Connect to controls	1	LOT	2240.00	2,240	65.000	65.00			
Test and balance	4	UNITS			2.000	8.00			
<i>SUBTOTAL HOURS:</i>						<u>268.65</u>	<i>HRS</i>		
Premium Time	10.00%					26.87			
<i>SUBTOTAL:</i>				<u>\$70,539</u>		<u>295.52</u>	<i>HRS</i>	<u>\$90.19</u>	<u>\$26,653</u>
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			14,108				5,331	19,439
<u>ELECTRICAL (SUBCONTRACTOR)</u>									
Motor connection pump	1	EA	78.00	78	1.800	1.80			

11.00 RENOVATION

11.00 RENOVATION									
11.122 NEW COOLING SYSTEMS	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>ELECTRICAL (SUBCONTRACTOR) (Continued)</u>									
Motor connection air conditioner	1	EA	170.00	170	5.500	5.50			
60 amp, 3 pole disconnect switch	1	EA	920.00	920	2.460	2.46			
Combination motor starter/disconnect switches	1	EA	730.00	730	2.520	2.52			
<u>Conduit and Wiring</u>									
1" diameter EMT conduit	600	LF	2.03	1,218	0.070	42.00			
#6 THHN	2,400	LF	1.30	3,120	0.013	31.20			
SUBTOTAL HOURS:						85.48 HRS			
Premium Time	10.00%					8.55			
SUBTOTAL:				\$6,236	94.03 HRS	\$95.83	\$9,011	\$15,247	
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			1,247				1,802	3,049
TOTAL 11.122 - NEW COOLING SYSTEM:									\$ 134,927
COST PER SQUARE FOOT:									\$ 3.26 /SF
GROSS FLOOR AREA:									41,400 SF
TOTAL 11.122 - NEW COOLING SYSTEM:									\$ 134,927
ALTERNATIVE COST PER TON:									\$ 44,975.67 /TON
TOTAL TONNAGE:									3 TON

11.00 RENOVATION

11.00 RENOVATION									
11.123 NEW DDC CONTROLS	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>MECHANICAL DEMOLITION</u>									
Remove existing controls	41,400	SF			0.005	207.00			
Dump charges	2	TONS	74.36	149	0.090	0.18			
<u>CONTROLS</u>									
Microprocessor, digital equipment, software, and programming	1	LOT	40950.00	40,950	280.000	280.00			
DDC point	160	EA	1175.00	188,000	11.850	1,896.00			
Thermostat	20	EA	112.00	2,240	2.650	53.00			
Thermostat with guard	2	EA	138.00	276	2.800	5.60			
Testing	1	EA			40.000	40.00			
Commissioning	1	LOT	2500.00	2,500	160.000	160.00			
Cutting and patching	1	LOT	371.00	371	20.000	20.00			
SUBTOTAL HOURS:						2,661.78 HRS			
Premium Time	10.00%					266.18			
SUBTOTAL:				\$234,486	2,927.96 HRS	\$90.19	\$264,073	\$498,559	
Subcontractor's Overhead and Profit on Materials and Labor	20.00%	46,897					52,815	99,712	
TOTAL 11.123 NEW CONTROLS: COST PER SQUARE FOOT: GROSS FLOOR AREA:									\$ 598,271 \$ 14.45 /SF 41,400 SF

11.00 RENOVATION

11.124 REPLACE DDC HEADEND EQUIPMENT	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
Remove existing headend control equipment and turn over to owner	1	LOT			16.000	16.00			
Install new microprocessor, digital equipment, software, and tier controls, including programming	1	LOT	40950.00	40,950	280.000	280.00			
Testing	1	LOT			16.000	16.00			
Commissioning	1	LOT	300.00	300	40.000	40.00			
<i>SUBTOTAL HOURS:</i>						<u>352.00</u>	<i>HRS</i>		
Premium Time	10.00%					35.20			
<i>SUBTOTAL:</i>				<u>\$41,250</u>		<u>387.20</u>	<i>HRS</i>	<u>\$90.19</u>	<u>\$34,922</u>
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			8,250				6,984	15,234

TOTAL 11.124 REPLACE DDC HEADEND EQUIPMENT:

\$ 91,406 EA

11.00 RENOVATION

11.00 RENOVATION										
11.125 NEW ELECTRIC CONTROLS	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR			
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL		
Note: Allowance to replace obsolete/non-functioning climate controls with in kind.										
Remove select control points for replacement	10	EA			1.800	18.00				
Remove thermostats	22	EA			0.250	5.50				
New control points, including valve or damper actuator and motor	10	EA	1175.00	11,750	11.850	118.50				
New programmable thermostats	22	EA	206.00	4,532	1.000	22.00				
Wireless IP based controller	4	EA	950.00	3,800	4.500	18.00				
Test and balance	1	LOT			40.000	40.00				
Allowance for access to control areas	10	EA	75.00	750	3.500	35.00				
SUBTOTAL HOURS:						257.00	HRS			
Premium Time	10.00%					25.70				
SUBTOTAL:				\$20,832		282.70	HRS	\$95.83	\$27,091	\$47,923
Subcontractor's Overhead and Profit on Materials and Labor		20.00%		4,166				5,418	9,584	

TOTAL 11.125 NEW ELECTRIC CONTROLS:
COST PER SQUARE FOOT:
GROSS FLOOR AREA:

\$ 57,507
\$ 1.39 /SF
41,400 SF

11.00 RENOVATION

11.00 RENOVATION									
11.126 NEW SPRINKLER SYSTEM	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>SITE WORK</u>									
Saw cut paving	400	LF	0.55	220	0.025	10.00			
Break-up and remove paving	450	SF			0.007	3.15			
Transport to recycle	8	TONS	6.75	54	0.138	1.10			
4" DI water main pipe and fittings	200	LF	163.93	32,786	0.300	60.00			
4" valve, box and marker	1	EA	1345.00	1,345	3.850	3.85			
4" hydrant	1	EA	5626.00	5,626	27.250	27.25			
Connect to existing main	1	EA	413.00	413	7.240	7.24			
Cut hole through exterior wall and patch	1	EA	43.00	43	1.000	1.00			
Patch paving	450	SF	2.50	1,125	0.040	18.00			
Excavate trench and backfill	200	LF	13.12	2,624	0.210	42.00			
SUBTOTAL:				\$44,236	173.59 HRS	\$90.49	\$15,708	\$59,944	
<u>FINISHES (SUBCONTRACTOR)</u>									
Remove ceiling tiles and reinstall on completion of work (allow 10% damaged)	32,445	SF			0.052	1,687.14			
Replace tiles (10%)	3,245	SF	3.18	10,319	0.025	81.13			
Cut out existing gypboard ceiling and patch on completion	1,750	SF	1.41	2,468	0.040	70.00			
Paint ceiling	3,500	SF	0.95	3,325	0.020	70.00			
Paint exposed pipes	500	LF	1.00	500	0.023	11.50			
SUBTOTAL:				\$16,612	1,919.77 HRS	\$73.31	\$140,738	\$157,350	

11.00 RENOVATION

11.126 NEW SPRINKLER SYSTEM	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			3,322				28,148	31,470
<u>FIRE PROTECTION (SUBCONTRACTOR)</u>									
Sprinkler riser and valves	1	EA	6185.00	6,185	32.000	32.00			
Fire department connection	1	EA	710.00	710	3.300	3.30			
Wet sprinkler system	41,400	SF	2.43	100,602	0.028	1,159.20			
Design fee and commissioning	1	LOT	5300.00	5,300	16.000	16.00			
Testing	1	LOT			40.000	40.00			
<i>SUBTOTAL HOURS:</i>						<u>1,250.50</u>	<i>HRS</i>		
Premium Time	10.00%					125.05			
<i>SUBTOTAL:</i>				<u>\$112,797</u>		<u>1,375.55</u>	<i>HRS</i>	<u>\$90.19</u>	<u>\$124,061</u>
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			22,559				24,812	47,371
 TOTAL 11.126 NEW SPRINKLER SYSTEM:									
COST PER SQUARE FOOT:								\$ 532,993	
GROSS FLOOR AREA:								\$ 12.87 /SF	
								41,400 SF	

11.00 RENOVATION

11.00 RENOVATION										
11.127 NEW MIST SPRINKLER SYSTEM	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP.			
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL		
<u>SITE WORK</u>										
Connect to existing water supply inside building	1	EA	180.00	180	2.500	2.50				
SUBTOTAL:				\$180		2.50 HRS	\$90.49	\$226		\$406
<u>FINISHES (SUBCONTRACTOR)</u>										
Remove ceiling tiles and reinstall on completion of work (allow 10% damaged)	32,445	SF			0.052	1,687.14				
Replace tiles (10%)	3,245	SF	3.18	10,319	0.025	81.13				
Cut out existing gypboard ceiling and patch on completion	1,750	SF	1.41	2,468	0.040	70.00				
Paint ceiling	3,500	SF	0.95	3,325	0.020	70.00				
SUBTOTAL:				\$16,112		1,908.27 HRS	\$73.31	\$139,895		\$156,007
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			3,222					27,979	31,201
<u>FIRE PROTECTION (SUBCONTRACTOR)</u>										
Note: Mist fire protection is not appropriate for large areas of coverage.										
Complete mist fire protection sprinkler system, including headend	41,400	SF	21.51	890,514	0.100	4,140.00				
Design fee and commissioning	1	LOT	7800.00	7,800	24.000	24.00				
Testing	1	LOT			40.000	40.00				
SUBTOTAL HOURS:						4,204.00 HRS				
Premium Time	10.00%					420.40				
SUBTOTAL:				\$898,314		4,624.40 HRS	\$90.19	\$417,075		\$1,315,389

11.00 RENOVATION

11.00 RENOVATION										TOTAL
11.127 NEW MIST SPRINKLER SYSTEM	Qty	MATERIAL/EQUIPMENT			LABOR		MATERIAL/EQUIP.		TOTAL & LABOR	
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL		
<u>FIRE PROTECTION (SUBCONTRACTOR) (Continued)</u>										
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			179,663				83,415	263,078	

TOTAL 11.127 NEW MIST SPRINKLER SYSTEM:
COST PER SQUARE FOOT:
GROSS FLOOR AREA:

\$ 1,766,081
\$ 42.66 /SF
41,400 SF

11.00 RENOVATION

11.128 FIRE PROTECTION DIESEL PUMP REPLACEMENT	Qty	MATERIAL/EQUIPMENT			Hours	LABOR	MATERIAL/EQUIP.		
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	& LABOR
Note: Labor rate is a combined rate for plumber (\$90.19) and electrician (\$95.83).									
Remove existing fire pump and dispose	1	EA			18.000	18.00			
Remove existing jockey pump	1	EA			4.000	4.00			
New 1,500 GPM, 66 HP diesel fire pump (6" pump assumed)	1	EA	93314.00	93,314	76.190	76.19			
New jockey pump	1	EA	4665.00	4,665	8.000	8.00			
Testing and certification	1	LOT	260.00	260	8.000	8.00			
SUBTOTAL HOURS:						114.19 HRS			
Premium Time	10.00%					11.42			
SUBTOTAL:				\$98,239		125.61 HRS	\$93.01	\$11,683	\$109,922
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			19,648				2,337	21,985
TOTAL 11.128 FIRE PROTECTION DIESEL PUMP REPLACEMENT:								\$ 131,907 EA	

11.00 RENOVATION

11.129 FIRE PROTECTION ELECTRIC PUMP REPLACEMENT	Qty	MATERIAL/EQUIPMENT			Hours	LABOR	MATERIAL/EQUIP.		
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	& LABOR
Note: Labor rate is a combined rate for plumber (\$90.19) and electrician (\$95.83).									
Remove existing fire pump and dispose	1	EA			16.000	16.00			
Remove existing jockey pump	1	EA			4.000	4.00			
New 1,500 GPM, 66 HP electric fire pump (6" pump assumed)	1	EA	38637.00	38,637	64.000	64.00			
New jockey pump	1	EA	4665.00	4,665	8.000	8.00			
Testing and certification	1	LOT	260.00	260	8.000	8.00			
SUBTOTAL HOURS:						100.00	HRS		
Premium Time	10.00%					10.00			
SUBTOTAL:				\$43,562		110.00 HRS	\$93.01	\$10,231	\$53,793
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			8,712				2,046	10,758
TOTAL 11.129 FIRE PROTECTION ELECTRIC PUMP REPLACEMENT:									\$ 64,551 EA

11.00 RENOVATION

11.130 REPLACE BULK WATER STORAGE TANK	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
Demolish existing 10,000 gallon bulk water tank	1	EA	1590.00	1,590	33.000	33.00			
Allowance for site preparation	1	LOT	3120.00	3,120	45.000	45.00			
Inspect and repair/modify existing substructure as required for reuse	200	SF	7.80	1,560	0.180	36.00			
New 10,000 gallon above ground bulk water storage tank, including appurtenances	1	EA	33644.00	33,644	130.000	130.00			
6" tank insulation from manufacturer	1	EA	25387.00	25,387	35.000	35.00			
Connect to existing supply and return piping	2	EA	53.00	106	2.000	4.00			
SUBTOTAL HOURS:						283.00 HRS			
Premium Time	10.00%					28.30			
SUBTOTAL:				\$65,407		311.30 HRS	\$90.19	\$28,076	\$93,483
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			13,081				5,615	18,696

TOTAL 11.130 REPLACE BULK WATER STORAGE TANK:
COST PER GALLON:
NUMBER OF GALLONS:

\$ 112,179
\$ 11.22 /GAL
10,000 GAL

11.00 RENOVATION

11.141 REPLACE MAIN SERVICE AND DISTRIBUTION

11.00 RENOVATION 11.141 REPLACE MAIN SERVICE AND DISTRIBUTION	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL
<u>DEMOLITION</u>								
Remove main panel	1	EA			6.750	6.75		
Remove disconnect switch	1	EA			3.900	3.90		
Remove panels	6	EA			3.500	21.00		
Remove conduit and wire	870	LF			0.100	87.00		
Dump charges	2	TONS	74.36	149	0.090	0.18		
<u>SERVICE AND DISTRIBUTION</u>								
1,600 amp main enclosed disconnect	1	EA	15619.00	15,619	29.000	29.00		
Main distribution panel with 1,600 amp bus and fused switches	1	EA	19212.00	19,212	32.000	32.00		
Subpanel, 225 amp, 120/208V, 4 wire, 3 phase, 42 circuits MLO	2	EA	3392.00	6,784	24.000	48.00		
Subpanel, 100 amp, 120/208V, 4 wire, 3 phase, 42 circuits	4	EA	2280.00	9,120	16.000	64.00		
3 1/2" diameter rigid steel conduit and fittings	100	LF	41.78	4,178	0.364	36.40		
3 1/2" elbow	2	EA	136.00	272	1.905	3.81		
2" diameter IMC conduit and fittings	100	LF	14.49	1,449	0.160	16.00		
1 1/2" diameter IMC conduit and fittings	300	LF	11.58	3,474	0.133	39.90		
1 1/4" diameter IMC conduit and fittings	250	LF	9.22	2,305	0.123	30.75		
1" diameter IMC conduit and fittings	120	LF	6.64	797	0.114	13.68		
#500 KCMIL copper wire	460	LF	18.47	8,496	0.050	23.00		

11.00 RENOVATION

11.141 REPLACE MAIN SERVICE AND DISTRIBUTION

11.00 RENOVATION									
11.141 REPLACE MAIN SERVICE AND DISTRIBUTION	Qty	MATERIAL/EQUIPMENT				LABOR		TOTAL MATERIAL/EQUIP.	
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
<u>SERVICE AND DISTRIBUTION (Continued)</u>									
#1/0 THHN copper wire	900	LF	5.12	4,608	0.025	22.50			
#2 THHN copper wire	1,000	LF	3.31	3,310	0.018	18.00			
#4 THHN copper wire	1,200	LF	2.00	2,400	0.016	19.20			
#4 ground wire, 10'0", and connect to building	2	EA	54.00	108	1.040	2.08			
Cutting and patching	1	LOT	428.00	428	10.000	10.00			
Testing	1	LOT	530.00	530	30.000	30.00			
<i>SUBTOTAL HOURS:</i>						<u>557.15</u>	<i>HRS</i>		
Premium Time	10.00%					55.72			
<i>SUBTOTAL:</i>				<u>\$83,239</u>		<u>612.87</u>	<u>\$95.83</u>	<u>\$58,731</u>	<u>\$141,970</u>
Subcontractor's Overhead and Profit on Materials and Labor									
	20.00%			16,648				11,746	28,394

11.141 REPLACE MAIN SERVICE AND DISTRIBUTION:

\$ 170,364

11.00 RENOVATION

11.00 RENOVATION									
11.142 REPLACE MAIN DISTRIBUTION PANEL	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP.		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
<u>DEMOLITION</u>									
Remove MDP, switchgear, and connection	1	EA			8.000	8.00			
Dump charges	1	TON	74.36	74	0.090	0.09			
<u>SERVICE AND DISTRIBUTION</u>									
1,600 amp main enclosed disconnect	1	EA	15619.00	15,619	29.000	29.00			
MDP main distribution panel with 1,600 amp bus and fused switches	1	EA	19212.00	19,212	32.000	32.00			
3 1/2" diameter rigid steel conduit and fittings	100	LF	41.78	4,178	0.364	36.40			
3 1/2" elbow	2	EA	136.00	272	1.905	3.81			
#500 KCMIL copper wire	400	LF	18.47	7,388	0.050	20.00			
Cutting and patching	1	LOT	267.00	267	2.500	2.50			
Testing	1	LOT			7.500	7.50			
SUBTOTAL HOURS:						139.30	HRS		
Premium Time	10.00%					13.93			
SUBTOTAL:				\$47,010		153.23	HRS	\$95.83	\$14,684
Subcontractor's Overhead and Profit on Materials and Labor				20.00%	9,402			2,937	12,339
TOTAL 11.142 REPLACE MAIN DISTRIBUTION PANEL:									\$ 74,033

11.00 RENOVATION

11.00 RENOVATION									
11.143 NEW POWER PANEL	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP.	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	& LABOR
<u>SERVICE AND DISTRIBUTION</u>									
Subpanel, 225 amp, 120/208 volt, 4 wire, 3 phase, 42 circuits MLO	1	EA	3392.00	3,392	24.000	24.00			
New backboard	1	EA	170.00	170	2.500	2.50			
1 1/4" diameter IMC conduit and fittings	120	LF	9.22	1,106	0.123	14.76			
#2 THHN copper wire	500	LF	3.31	1,655	0.018	9.00			
Cutting and patching	1	LOT	160.00	160	2.500	2.50			
Testing	1	LOT			2.000	2.00			
SUBTOTAL HOURS:						54.76 HRS			
Premium Time	10.00%					5.48			
SUBTOTAL:				\$6,483		60.24 HRS	\$95.83	\$5,773	\$12,256
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			1,297				1,155	2,452
TOTAL 11.143 NEW POWER PANEL:									\$ 14,708

11.00 RENOVATION

11.144 REPLACE LIGHTING (FIXTURES AND WIRING)

11.00 RENOVATION								TOTAL	
11.144 REPLACE LIGHTING (FIXTURES AND WIRING)		MATERIAL/EQUIPMENT			LABOR		MATERIAL/EQUIP.		
	Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
<u>DEMOLITION</u>									
Remove light fixtures	750	EA			0.600	450.00			
Conduit and wire	1	LOT			300.000	300.00			
Dump charges	30	TONS	74.36	2,231	0.090	2.70			
<u>ELECTRICAL</u>									
<u>Fixtures</u>									
2'0"x4'0" LED	486	EA	315.00	153,090	1.650	801.90			
1'0"x4'0" LED	120	EA	186.00	22,320	1.200	144.00			
4'0" surface LED	12	EA	217.00	2,604	1.200	14.40			
6" diameter surface wet location LED downlight fixture	42	EA	310.00	13,020	1.300	54.60			
High bay LED gym light	30	EA	617.00	18,510	2.100	63.00			
Exit sign with battery	40	EA	298.45	11,938	1.000	40.00			
Self-contained dual head emergency light	6	EA	535.00	3,210	2.000	12.00			
LED wall pack with cut-off optics, building mounted exterior light fixture	10	EA	659.75	6,598	2.000	20.00			
70 watt recessed soffit HID fixture with tempered lens, tamperproof	6	EA	633.60	3,802	1.850	11.10			
Lighting control panel	2	EA	2305.00	4,610	16.000	32.00			
Single switch	60	EA	22.00	1,320	0.620	37.20			

11.00 RENOVATION

11.144 REPLACE LIGHTING (FIXTURES AND WIRING)

11.00 RENOVATION					TOTAL						
11.144 REPLACE LIGHTING (FIXTURES AND WIRING)					MATERIAL/EQUIPMENT			LABOR		MATERIAL/EQUIP.	
	Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR		
<u>ELECTRICAL (Continued)</u>											
<u>Fixtures (Continued)</u>											
Three-way switch	8	EA	42.00	336	1.100	8.80					
Keyed switch	4	EA	72.00	288	0.780	3.12					
Local lighting control	16	EA	44.00	704	1.100	17.60					
Dual technology occupancy sensor	26	EA	254.00	6,604	1.600	41.60					
Occupancy sensor/switch	30	EA	172.30	5,169	0.620	18.60					
Wall switch with built-in motion sensor and control switch	2	EA	193.60	387	1.350	2.70					
Junction box with cover	12	EA	15.00	180	0.200	2.40					
Emergency light connection	40	EA	48.00	1,920	1.000	40.00					
Night light connection	30	EA	17.80	534	1.000	30.00					
100 amp, 4 pole electrical HID contactor	2	EA	1335.00	2,670	3.685	7.37					
Photocell/time switch	2	EA	175.00	350	0.850	1.70					
<u>Conduit and Wiring</u>											
3/4" diameter EMT conduit	3,000	LF	1.10	3,300	0.062	186.00					
1/2" diameter EMT conduit	4,000	LF	0.63	2,520	0.047	188.00					
#10 THHN	12,000	LF	0.64	7,680	0.008	96.00					
#12 THHN	16,000	LF	0.36	5,760	0.007	112.00					
Cutting and patching	1	LOT	650.00	650	20.000	20.00					

11.00 RENOVATION

11.144 REPLACE LIGHTING (FIXTURES AND WIRING)

11.00 RENOVATION					TOTAL				
11.144 REPLACE LIGHTING (FIXTURES AND WIRING)		MATERIAL/EQUIPMENT			LABOR		MATERIAL/EQUIP.		
	Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
<u>ELECTRICAL (Continued)</u>									
<u>Conduit and Wiring (Continued)</u>									
Testing	1	LOT	1650.00	1,650	50.000	50.00			
SUBTOTAL HOURS:						2,808.79	HRS		
Premium Time	10.00%					280.88			
SUBTOTAL:				\$283,955		3,089.67	HRS	\$95.83	\$296,083
Subcontractor's Overhead and Profit on Materials and Labor									
	20.00%			56,791				59,217	116,008

TOTAL 11.144 REPLACE LIGHTING (FIXTURES AND WIRING):
COST PER SF:
GROSS FLOOR AREA:

\$ 696,046
\$ 16.81 /SF
41,400 SF

11.00 RENOVATION

11.00 RENOVATION									
11.145 REPLACE LIGHTING (FIXTURES ONLY)	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>DEMOLITION</u>									
Remove light fixture	750	EA			0.600	450.00			
Conduit and wire									Existing
Dump charges	7	TONS	74.36	521	0.090	0.63			
<u>FIXTURES</u>									
2'0"x4'0" LED	486	EA	315.00	153,090	1.650	801.90			
1'0"x4'0" LED	120	EA	186.00	22,320	1.200	144.00			
4'0" surface LED	12	EA	217.00	2,604	1.200	14.40			
6" diameter surface wet location LED downlight fixture	42	EA	310.00	13,020	1.300	54.60			
High bay LED gym light	30	EA	617.00	18,510	2.100	63.00			
LED exit sign with battery	40	EA	298.45	11,938	1.000	40.00			
Self-contained dual head emergency light	6	EA	535.00	3,210	2.000	12.00			
LED wall pack with cut-off optics, building mounted exterior light fixture	10	EA	659.75	6,598	2.000	20.00			
Recessed soffit LED fixture with tempered lens, tamperproof	6	EA	633.60	3,802	1.850	11.10			
SUBTOTAL:				\$235,613		1,611.63 HRS	\$95.83	\$154,443	\$390,056
Subcontractor's Overhead and Profit on Materials and Labor								Electrical is Prime	
TOTAL 11.145 REPLACE LIGHTING (FIXTURES ONLY):									\$ 390,056
COST PER SF:									\$ 9.42 /SF
GROSS FLOOR AREA:									41,400 SF

11.00 RENOVATION

11.00 RENOVATION									
11.146 RE-LAMP FIXTURES	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>DEMOLITION</u>									
Remove lamps	2,330	EA			0.040	93.20			
Load and haul	1.5	TONS	6.76	10	0.138	0.21			
Dump charges	1.5	TONS	74.36	112	0.090	0.14			
<u>ELECTRICAL</u>									
<u>Fixtures</u>									
4'0" LED lamp	2,232	EA	12.72	28,391	0.090	200.88			
6" diameter LED downlight lamp	42	EA	22.00	924	0.140	5.88			
High bay LED lamp	30	EA	294.00	8,820	0.350	10.50			
LED wall pack replacement lamp	10	EA	245.00	2,450	0.350	3.50			
Lamp for recessed soffit LED fixture with tempered lens, tamperproof	6	EA	22.00	132	0.180	1.08			
SUBTOTAL:				\$40,839	315.39 HRS	\$95.83	\$30,224	\$71,063	
Subcontractor's Overhead and Profit on Materials and Labor									
Electrical is Prime									

TOTAL 11.146 REPLACE LIGHTING (FIXTURES ONLY):

\$ 71,063

COST PER SF:

\$ 1.72 /SF

GROSS FLOOR AREA:

41,400 SF

11.00 RENOVATION

11.00 RENOVATION									
11.147 REPLACE POWER DEVICES	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>DEMOLITION</u>									
Remove devices	398	EA			0.400	159.20			
Conduit and wire	1	LOT			100.000	100.00			
Dump charges	5	TONS	74.36	372	0.090	0.45			
<u>ELECTRICAL</u>									
<u>Devices</u>									
20 amp duplex outlet	320	EA	14.00	4,480	0.900	288.00			
GFI duplex outlet	48	EA	21.00	1,008	1.125	54.00			
Quadraplex floor outlet	16	EA	188.00	3,008	1.300	20.80			
GFI 15 amp duplex outlet, weatherproof	3	EA	53.00	159	1.250	3.75			
50 amp special outlet	3	EA	58.00	174	0.727	2.18			
30 amp special outlet	2	EA	46.00	92	1.125	2.25			
Junction box with cover	6	EA	15.00	90	0.200	1.20			
<u>Conduit and Wiring</u>									
3/4" diameter EMT conduit	2,000	LF	1.10	2,200	0.062	124.00			
1/2" diameter EMT conduit	4,000	LF	0.63	2,520	0.047	188.00			
#8 THHN	1,000	LF	0.91	910	0.010	10.00			
#10 THHN	3,000	LF	0.64	1,920	0.008	24.00			
#12 THHN	15,000	LF	0.36	5,400	0.007	105.00			

11.00 RENOVATION

11.00 RENOVATION					TOTAL				
11.147 REPLACE POWER DEVICES	Qty	MATERIAL/EQUIPMENT			LABOR		MATERIAL/EQUIP.		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
<u>ELECTRICAL (Continued)</u>									
<u>Conduit and Wiring (Continued)</u>									
Cutting and patching	1	LOT	695.00	695	15.000	15.00			
Test and tag	1	LOT	1650.00	1,650	50.000	50.00			
SUBTOTAL HOURS:						1,147.83	HRS		
Premium Time	10.00%					114.78			
SUBTOTAL:				\$24,678		1,262.61	HRS	\$95.83	\$120,996
Subcontractor's Overhead and Profit on Materials and Labor				20.00%	4,936			24,199	29,135

TOTAL 11.147 REPLACE POWER DEVICES:
COST PER SF:
GROSS FLOOR AREA:

\$ 174,809
\$ 4.22 /SF
41,400 SF

11.00 RENOVATION

11.00 RENOVATION									
11.148 NEW STANDBY POWER AND FUEL OIL	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP.		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
<u>UTILITIES</u>									
5,000 gallon exterior fuel oil tank, above ground	1	EA	84800.00	84,800	11.000	11.00			
Leak detection system	1	LOT	9306.00	9,306	6.500	6.50			
Testing oil	500	GALS	5.80	2,900					
1" diameter piping and fittings	140	LF	5.04	706	0.228	31.92			
4'0"x8'0" concrete pad	1	EA	1378.00	1,378	7.000	7.00			
Trench, backfill and tape	100	LF	7.08	708	0.100	10.00			
6'0" chainlink fence	100	LF	55.00	5,500	0.200	20.00			
Gate	1	EA	2033.00	2,033	3.800	3.80			
Testing	1	LOT	170.00	170	17.000	17.00			
SUBTOTAL:				\$107,501		107.22 HRS	\$90.49	\$9,702	\$117,203
<u>MECHANICAL (SUBCONTRACTOR)</u>									
<u>Fuel Oil</u>									
50 gallon interior day tank with duplex pumps	1	EA	12826.00	12,826	4.100	4.10			
3/4" diameter piping and fittings	25	LF	3.48	87	0.202	5.05			
Valves	1	LOT	471.00	471	1.500	1.50			
Connection to equipment	1	EA	233.00	233	2.000	2.00			
Testing	1	LOT	170.00	170	2.500	2.50			
SUBTOTAL HOURS:						15.15 HRS			

11.00 RENOVATION

11.148 NEW STANDBY POWER AND FUEL OIL	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
Premium Time	10.00%					1.52			
<i>SUBTOTAL:</i>				<i>\$13,787</i>		<i>16.67 HRS</i>	<i>\$90.19</i>	<i>\$1,503</i>	<i>\$15,290</i>
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			2,757				301	3,058
<u>ELECTRICAL (SUBCONTRACTOR)</u>									
<u>Power Distribution</u>									
Fractional motor connection	2	EA	53.00	106	1.750	3.50			
3/4" diameter EMT conduit	60	LF	1.10	66	0.062	3.72			
#10 THHN	240	LF	0.58	139	0.008	1.92			
<u>New Standby Power</u>									
150 KW oil fired emergency diesel generator including accessories	1	EA	92198.00	92,198	81.800	81.80			
Connection to leak detection system	1	EA	74.00	74	1.666	1.67			
Connection to level indicator	1	EA	74.00	74	1.666	1.67			
600 amp automatic transfer switch	1	EA	18878.00	18,878	17.700	17.70			
600 amp emergency distribution panel	1	EA	10144.00	10,144	18.600	18.60			
100 amp standby panel, 30 circuits, 120/208 MLO	4	EA	2280.00	9,120	16.000	64.00			
225 amp standby panel, 42 circuits, 120/208 MLO	2	EA	3392.00	6,784	24.000	48.00			
1 1/4" diameter EMT conduit	175	LF	3.28	574	0.080	14.00			

11.00 RENOVATION

11.00 RENOVATION									
11.148 NEW STANDBY POWER AND FUEL OIL	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>ELECTRICAL (SUBCONTRACTOR) (Continued)</u>									
<u>New Standby Power (Continued)</u>									
2" diameter EMT conduit	100	LF	4.70	470	0.100	10.00			
2 1/2" rigid conduit with fittings	15	LF	28.07	421	0.229	3.44			
#2 THHN	350	LF	3.31	1,159	0.018	6.30			
#1/0 THHN	600	LF	5.12	3,072	0.025	15.00			
#3/0 THHN	350	LF	8.20	2,870	0.033	11.55			
#4/0 THHN	80	LF	10.19	815	0.037	2.96			
Cutting and patching	1	LOT	535.00	535	10.000	10.00			
Testing	1	LOT	160.00	160	20.000	20.00			
SUBTOTAL HOURS:						335.83 HRS			
Premium Time	10.00%					33.58			
SUBTOTAL:				\$147,659		369.41 HRS	\$95.83	\$35,401	\$183,060
Subcontractor's Overhead and Profit on Materials and Labor		20.00%		29,532				7,080	36,612
TOTAL 11.148 NEW STANDBY POWER AND FUEL OIL:								\$ 355,223	
COST PER KILOWATT:								\$ 2,368.15 /KW	
KILOWATT PRODUCED:								150 KW	

11.00 RENOVATION

**11.149 NEW PRE-PACKAGED STANDBY POWER
AND FUEL OIL**

11.00 RENOVATION								TOTAL	
11.149 NEW PRE-PACKAGED STANDBY POWER		MATERIAL/EQUIPMENT			LABOR			MATERIAL/EQUIP.	
AND FUEL OIL		Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL
									& LABOR

UTILITIES

5,000 gallon exterior fuel oil tank, above ground	1	EA	84800.00	84,800	11.000	11.00				
Leak detection system	1	LOT	9306.00	9,306	6.500	6.50				
Testing oil	500	GALS	5.80	2,900						
1" diameter piping and fittings to pre-packaged generator location	140	LF	5.04	706	0.228	31.92				
4'0"x8'0" concrete pad	1	EA	1378.00	1,378	7.000	7.00				
Trench, backfill and tape	100	LF	7.08	708	0.100	10.00				
6'0" chainlink fence	100	LF	55.00	5,500	0.200	20.00				
Gate	1	EA	2033.00	2,033	3.800	3.80				
Testing	1	LOT	170.00	170	7.000	7.00				

SUBTOTAL: \$107,501 97.22 HRS \$90.49 \$8,797 \$116,298

ELECTRICAL (SUBCONTRACTOR)

Power Distribution

Fractional motor connection	2	EA	53.00	106	1.750	3.50				
3/4" diameter EMT conduit	60	LF	1.10	66	0.062	3.72				
#10 THHN	240	LF	0.64	154	0.008	1.92				

New Standby Power

150 KW pre-packaged oil fired emergency diesel generator including accessories (assume exterior pad mounting)	1	EA	92198.00	92,198	83.330	83.33				
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11.00 RENOVATION

**11.149 NEW PRE-PACKAGED STANDBY POWER
AND FUEL OIL**

11.00 RENOVATION										
11.149 NEW PRE-PACKAGED STANDBY POWER AND FUEL OIL	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP.			
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR	
<u>ELECTRICAL (SUBCONTRACTOR) (Continued)</u>										
<u>New Standby Power (Continued)</u>										
Structural support for packaged unit	150	SF	11.23	1,685	0.020	3.00				
Connection to leak detection system	1	EA	74.00	74	1.666	1.67				
Connection to level indicator	1	EA	74.00	74	1.666	1.67				
600 amp automatic transfer switch	1	EA	8701.65	8,702	17.700	17.70				
600 amp emergency distribution panel	1	EA	11968.20	11,968	18.600	18.60				
100 amp standby panel, 30 circuits, 120/208 MLO	4	EA	2280.00	9,120	16.000	64.00				
225 amp standby panel, 42 circuits, 120/208 MLO	2	EA	3392.00	6,784	24.000	48.00				
1 1/4" diameter EMT conduit	175	LF	3.28	574	0.080	14.00				
2" diameter EMT conduit	100	LF	4.70	470	0.100	10.00				
2 1/2" rigid conduit with fittings	15	LF	28.01	420	0.229	3.44				
#2 THHN	350	LF	3.31	1,159	0.018	6.30				
#1/0 THHN	600	LF	5.12	3,072	0.025	15.00				
#3/0 THHN	350	LF	8.20	2,870	0.033	11.55				
#4/0 THHN	80	LF	10.19	815	0.037	2.96				
Cutting and patching	1	LOT	535.00	535	10.000	10.00				

11.00 RENOVATION

11.149 NEW PRE-PACKAGED STANDBY POWER AND FUEL OIL	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		MATERIAL/EQUIP.		
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	& LABOR	
<u>ELECTRICAL (SUBCONTRACTOR) (Continued)</u>										
<u>New Standby Power (Continued)</u>										
Testing	1	LOT	170.00	170	20.000	20.00				
SUBTOTAL HOURS:						340.36	HRS			
Premium Time	10.00%					34.04				
SUBTOTAL:				\$141,016		374.40	HRS	\$95.83	\$35,879	\$176,895
Subcontractor's Overhead and Profit on Materials and Labor										
	20.00%			28,203					7,176	35,379

TOTAL 11.149 NEW PRE-PACKAGED STANDBY POWER AND FUEL OIL:
COST PER KILOWATT:
KILOWATT PRODUCED:

\$ 328,572
\$ 2,190.48 /KW
150 KW

11.00 RENOVATION

11.00 RENOVATION									
11.150 GENERATOR PRIMARY POWER	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP.		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
<u>UTILITIES</u>									
5,000 gallon exterior fuel oil tank, above ground	1	EA	84800.00	84,800	11.000	11.00			
Leak detection system	1	LOT	9306.00	9,306	6.500	6.50			
Testing oil	500	GALS	5.80	2,900					
1" diameter piping and fittings	140	LF	5.04	706	0.228	31.92			
4'0"x8'0" concrete pad	1	EA	1378.00	1,378	7.000	7.00			
Trench, backfill and tape	100	LF	7.08	708	0.100	10.00			
6'0" chainlink fence	100	LF	55.00	5,500	0.200	20.00			
Gate	1	EA	2033.00	2,033	3.800	3.80			
Testing	1	LOT	170.00	170	7.000	7.00			
SUBTOTAL:				\$107,501		97.22 HRS	\$90.49	\$8,797	\$116,298
<u>ELECTRICAL (SUBCONTRACTOR)</u>									
<u>Power Distribution</u>									
Fractional motor connection	2	EA	53.00	106	1.750	3.50			
3/4" diameter EMT conduit	60	LF	1.10	66	0.062	3.72			
#10 THHN	240	LF	0.64	154	0.008	1.92			
<u>New Power Generation</u>									
500 KW oil fired generator (primary power)	2	EA	237850.00	475,700	118.000	236.00			
Additional building area required to house prime power	600	SF	235.00	141,000	1.580	948.00			

11.00 RENOVATION

11.00 RENOVATION									
11.150 GENERATOR PRIMARY POWER	Qty	MATERIAL/EQUIPMENT			Hours	LABOR	TOTAL MATERIAL/EQUIP.		
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	& LABOR
<u>ELECTRICAL (SUBCONTRACTOR) (Continued)</u>									
<u>New Power Generation (Continued)</u>									
Increase on-site fuel storage	5,000	GALS	29.20	146,000	0.017	85.00			
<u>New Standby Power</u>									
150 KW oil fired emergency diesel generator including accessories	1	EA	92198.00	92,198	81.800	81.80			
Connection to leak detection system	1	EA	74.00	74	1.666	1.67			
Connection to level indicator	1	EA	74.00	74	1.666	1.67			
600 amp automatic transfer switch	1	EA	18878.00	18,878	17.700	17.70			
600 amp emergency distribution panel	1	EA	10149.00	10,149	18.600	18.60			
100 amp standby panel, 30 circuits, 120/208 MLO	4	EA	2280.00	9,120	16.000	64.00			
225 amp standby panel, 42 circuits, 120/208 MLO	2	EA	3392.00	6,784	24.000	48.00			
1 1/4" diameter EMT conduit	175	LF	3.28	574	0.080	14.00			
2" diameter EMT conduit	100	LF	4.70	470	0.100	10.00			
2 1/2" rigid conduit with fittings	15	LF	28.07	421	0.229	3.44			
#2 THHN	350	LF	3.31	1,159	0.018	6.30			
#1/0 THHN	600	LF	5.12	3,072	0.025	15.00			
#3/0 THHN	350	LF	8.20	2,870	0.033	11.55			
#4/0 THHN	80	LF	10.19	815	0.037	2.96			

11.00 RENOVATION

11.00 RENOVATION						TOTAL				
11.150 GENERATOR PRIMARY POWER	Qty	MATERIAL/EQUIPMENT			Hours	LABOR	MATERIAL/EQUIP.			
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	& LABOR	
<u>ELECTRICAL (SUBCONTRACTOR) (Continued)</u>										
<u>New Standby Power (Continued)</u>										
Cutting and patching	1	LOT	535.00	535	10.000	10.00				
Testing	1	LOT	170.00	170	20.000	20.00				
SUBTOTAL HOURS:						1,604.83	HRS			
Premium Time	10.00%					160.48				
SUBTOTAL:				\$910,389		1,765.31	HRS	\$95.83	\$169,170	\$1,079,559
Subcontractor's Overhead and Profit on Materials and Labor		20.00%		182,078					33,834	215,912

TOTAL 11.150 GENERATOR PRIME POWER:
COST PER KILOWATT:
KILOWATT PRODUCED:

\$ 1,411,769
\$ 2,823.54 /KW
500 KW

11.00 RENOVATION

**11.161 NEW ADDRESSABLE FIRE ALARM
SYSTEM**

11.00 RENOVATION								TOTAL	
11.161 NEW ADDRESSABLE FIRE ALARM		MATERIAL/EQUIPMENT			LABOR		MATERIAL/EQUIP.		
SYSTEM	Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
<u>ELECTRICAL (SUBCONTRACTOR)</u>									
16-zone fire alarm control panel, including standby batteries and charger	1	EA	6750.00	6,750	22.000	22.00			
Fire alarm graphic annunciator	1	EA	1370.00	1,370	15.000	15.00			
Manual pull station (break glass type)	10	EA	97.00	970	1.500	15.00			
Combination horn/strobe	28	EA	180.00	5,040	1.650	46.20			
Combination horn/strobe, weatherproof	6	EA	201.00	1,206	1.880	11.28			
Strobe (only)	10	EA	95.00	950	1.500	15.00			
Magnetic door hold release	30	EA	128.00	3,840	1.635	49.05			
Smoke detector ionization	30	EA	145.00	4,350	1.250	37.50			
Heat detector	10	EA	111.00	1,110	0.700	7.00			
Duct detector	4	EA	360.00	1,440	2.450	9.80			
Connect to trip circuit	1	EA	115.00	115	1.150	1.15			
Connection to TTB	1	EA	118.00	118	1.150	1.15			
Connect to intercom system	1	EA	85.00	85	1.150	1.15			
Tamper switch connection	1	EA	275.00	275	1.220	1.22			
Flow switch connection	1	EA	275.00	275	1.220	1.22			
Junction box	16	EA	15.00	240	0.200	3.20			
1" diameter EMT conduit	3,200	LF	2.03	6,496	0.070	224.00			
Fire alarm wiring	3,200	LF	0.80	2,560	0.015	48.00			

11.00 RENOVATION

11.161 NEW ADDRESSABLE FIRE ALARM SYSTEM

	Qty	MATERIAL/EQUIPMENT				LABOR			TOTAL MATERIAL/EQUIP. & LABOR
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>ELECTRICAL (SUBCONTRACTOR) (Continued)</u>									
Testing	1	LOT			24.000	24.00			
Cutting and patching for installation	41,400	SF	0.23	9,522	0.002	82.80			
<i>SUBTOTAL HOURS:</i>						<u>615.72</u>	<i>HRS</i>		
Premium Time	10.00%					61.57			
<i>SUBTOTAL:</i>				<u>\$46,712</u>		<u>677.29</u>	<i>HRS</i>	<u>\$95.83</u>	<u>\$64,905</u>
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			9,342				12,981	22,323

TOTAL 11.161 NEW ADDRESSABLE FIRE ALARM SYSTEM:
COST PER SQUARE FOOT:
GROSS FLOOR AREA:

\$ 133,940
\$ 3.24 /SF
41,400 SF

11.00 RENOVATION

11.162 REPLACE FIRE ALARM PANEL	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
Remove existing 16-zone fire alarm panel	1	EA			6.000	6.00			
New 16-zone fire alarm panel, including standby batteries and charger	1	EA	6750.00	6,750	22.000	22.00			
Testing and certification	1	LOT			40.000	40.00			
<i>SUBTOTAL HOURS:</i>						<u>68.00</u>	<i>HRS</i>		
Premium Time	10.00%					6.80			
<i>SUBTOTAL:</i>				<u>\$6,750</u>		<i>74.80 HRS</i>	<u>\$95.83</u>	<u>\$7,168</u>	<u>\$13,918</u>
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			1,350				1,434	2,784
TOTAL 11.162 REPLACE FIRE ALARM PANEL:								\$ 16,702	

11.00 RENOVATION

11.00 RENOVATION									
11.163 NEW COMPUTER OUTLETS (ROUGH-IN)	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>ELECTRICAL (SUBCONTRACTOR)</u>									
Free standing rack	2	EA	1750.00	3,500	4.800	9.60			
Outlet	160	EA	35.00	5,600	0.666	106.56			
12" cable tray	700	LF	37.00	25,900	0.112	78.40			
3/4" diameter EMT conduit	1,600	LF	1.10	1,760	0.062	99.20			
Cat 6 wire	1,600	LF	1.00	1,600	0.015	24.00			
Cutting and patching	1	LOT	321.00	321	10.000	10.00			
Testing	1	LOT			20.000	20.00			
SUBTOTAL HOURS:						347.76 HRS			
Premium Time	10.00%					34.78			
SUBTOTAL:				\$38,681	382.54 HRS	\$95.83	\$36,659	\$75,340	
Subcontractor's Overhead and Profit on Materials and Labor				20.00%	7,736			7,332	15,068
TOTAL 11.163 NEW COMPUTER OUTLETS (ROUGH-IN): COST PER SQUARE FOOT: GROSS FLOOR AREA:									\$ 90,408 \$ 2.18 /SF 41,400 SF

11.00 RENOVATION

**11.164 NEW DATA, TELECOMMUNICATION,
ADDRESS, AND CLOCK SYSTEMS**

11.00 RENOVATION 11.164 NEW DATA, TELECOMMUNICATION, ADDRESS, AND CLOCK SYSTEMS					TOTAL MATERIAL/EQUIP. & LABOR			
	Qty	MATERIAL/EQUIPMENT		LABOR				
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL
<u>ELECTRICAL (SUBCONTRACTOR)</u>								
3/4" plywood backboard	576	SF	3.28	1,889	0.038	21.89		
48-pair telecom termination block	2	EA	130.00	260	0.430	0.86		
19"x84" free-standing data equipment rack	5	EA	1750.00	8,750	4.800	24.00		
Plug strip	5	EA	137.00	685	0.720	3.60		
48-port patch panel	10	EA	305.00	3,050	2.140	21.40		
Cable management panel	10	EA	310.00	3,100	2.430	24.30		
Fiber optic cable patch panel	3	EA	350.00	1,050	1.100	3.30		
Connection to fire alarm system	1	EA	201.00	201	2.500	2.50		
Single jack telephone outlet	5	EA	25.00	125	0.570	2.85		
Single jack data/telephone outlet	5	EA	25.00	125	0.570	2.85		
Two-jack data/telephone outlet	122	EA	35.00	4,270	0.720	87.84		
Three-jack data/telephone outlet	1	EA	45.00	45	0.860	0.86		
Four-jack data/telephone outlet	1	EA	60.00	60	0.890	0.89		
Two-jack data/telephone outlet, floor mounted	3	EA	156.00	468	1.500	4.50		
Four-jack data/telephone outlet, floor mounted	4	EA	174.00	696	2.140	8.56		
Three-jack data/telephone outlet, ceiling mounted	1	EA	55.00	55	1.000	1.00		
Wireless access point	11	EA	250.00	2,750	1.100	12.10		
Smart board interface	20	EA	1812.00	36,240	17.700	354.00		

11.00 RENOVATION

**11.164 NEW DATA, TELECOMMUNICATION,
ADDRESS, AND CLOCK SYSTEMS**

11.00 RENOVATION								TOTAL	
11.164 NEW DATA, TELECOMMUNICATION,		MATERIAL/EQUIPMENT			LABOR		MATERIAL/EQUIP.		
ADDRESS, AND CLOCK SYSTEMS		Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL
		& LABOR							
<u>ELECTRICAL (SUBCONTRACTOR) (Continued)</u>									
Junction box	20	EA	15.00	300	0.200	4.00			
12" cable tray	450	LF	37.00	16,650	0.112	50.40			
4" diameter EMT conduit	150	LF	12.24	1,836	0.200	30.00			
3" diameter EMT conduit	40	LF	9.06	362	0.160	6.40			
1" diameter EMT conduit	300	LF	2.03	609	0.070	21.00			
3/4" diameter EMT conduit	1,420	LF	1.10	1,562	0.062	88.04			
Cat 6 data cable	15,050	LF	1.00	15,050	0.015	225.75			
100-pair Cat 3 copper voice backbone	200	LF	20.14	4,028	0.033	6.60			
50-pair Cat 3 copper voice backbone	200	LF	12.93	2,586	0.018	3.60			
12-strand fiber	100	LF	2.85	285	0.012	1.20			
Hybrid fiber optic cable	250	LF	5.08	1,270	0.015	3.75			
Ground bar	1	EA	117.00	117	0.600	0.60			
#2/0 bare copper ground	250	LF	6.48	1,620	0.027	6.75			
Link module for public address	1	EA	1775.00	1,775	12.000	12.00			
Mixer/pre-amplifier	1	EA	985.00	985	1.500	1.50			
Equipment rack	1	EA	1775.00	1,775	3.000	3.00			
Power amplifier	2	EA	1208.00	2,416	7.700	15.40			
AM/FM tuner	1	EA	400.00	400	1.500	1.50			

11.00 RENOVATION

11.164 NEW DATA, TELECOMMUNICATION, ADDRESS, AND CLOCK SYSTEMS

11.00 RENOVATION										TOTAL
11.164 NEW DATA, TELECOMMUNICATION, ADDRESS, AND CLOCK SYSTEMS										MATERIAL/EQUIP.
	Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR	
<u>ELECTRICAL (SUBCONTRACTOR) (Continued)</u>										
CD player	1	EA	300.00	300	1.500	1.50				
Clock/speaker	22	EA	470.00	10,340	2.500	55.00				
Digital clock	6	EA	200.00	1,200	0.770	4.62				
Speaker	16	EA	145.00	2,320	0.950	15.20				
Speaker, weatherproof	2	EA	245.00	490	1.100	2.20				
3/4" diameter EMT conduit	1,000	LF	1.10	1,100	0.062	62.00				
4-pair Cat 3 wire	1,600	LF	0.37	592	0.011	17.60				
25-pair Cat 3 wire	100	LF	1.71	171	0.014	1.40				
Cutting and patching	1	LOT	642.00	642	15.000	15.00				
Testing	1	LOT			20.000	20.00				
SUBTOTAL HOURS:						<u>1,253.31</u>	HRS			
Premium Time	10.00%					125.33				
SUBTOTAL:				<u>\$134,600</u>		<u>1,378.64</u>	HRS	<u>\$95.83</u>	<u>\$132,115</u>	
Subcontractor's Overhead and Profit on Materials and Labor				20.00%	26,920			26,423	53,343	
TOTAL 11.164 NEW DATA, TELECOMMUNICATION, ADDRESS, AND CLOCK SYSTEMS:										\$ 320,058
COST PER SQUARE FOOT:										\$ 7.73 /SF
GROSS FLOOR AREA:										41,400 SF

11.00 RENOVATION

11.165 NEW PUBLIC ADDRESS

(GYM AND STAGE)

11.00 RENOVATION 11.165 NEW PUBLIC ADDRESS (GYM AND STAGE)	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL
<u>ELECTRICAL (SUBCONTRACTOR)</u>								
Mixer/pre-amplifier	5	EA	1085.00	5,425	2.100	10.50		
Eight channel auto/gate	3	EA	975.00	2,925	1.550	4.65		
Equalizer	3	EA	630.00	1,890	1.550	4.65		
Power amp	1	EA	1208.00	1,208	7.700	7.70		
Power amp, dual channel	1	EA	1585.00	1,585	7.800	7.80		
CD multi-player	3	EA	200.00	600	1.500	4.50		
AM/FM tuner	2	EA	400.00	800	1.500	3.00		
Speaker	17	EA	145.00	2,465	0.095	1.62		
Wireless receiver	2	EA	785.00	1,570	2.000	4.00		
Stand type microphone	6	EA	150.00	900	0.780	4.68		
Desk top microphone	2	EA	100.00	200	0.780	1.56		
Wireless microphone	3	EA	175.00	525	1.250	3.75		
Microphone floor outlet	4	EA	155.00	620	1.300	5.20		
Microphone stand	3	EA	130.00	390	0.180	0.54		
Equipment rack	2	EA	1775.00	3,550	2.500	5.00		
Over voltage protection	1	LOT	487.00	487	2.000	2.00		
Microphone cable	200	LF	1.17	234	0.013	2.60		
3/4" diameter EMT conduit	1,200	LF	1.10	1,320	0.062	74.40		

11.00 RENOVATION

11.165 NEW PUBLIC ADDRESS

(GYM AND STAGE)

11.00 RENOVATION 11.165 NEW PUBLIC ADDRESS (GYM AND STAGE)					MATERIAL/EQUIPMENT		LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
	Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL		
<u>ELECTRICAL (SUBCONTRACTOR) (Continued)</u>										
Cat 6 speaker cable	1,800	LF	1.00	1,800	0.015	27.00				
Cutting and patching	1	LOT	642.00	642	20.000	20.00				
Testing	1	LOT			8.000	8.00				
SUBTOTAL HOURS:						203.15 HRS				
Premium Time	10.00%					20.32				
SUBTOTAL:				\$29,136		223.47 HRS	\$95.83	\$21,415		\$50,551
Subcontractor's Overhead and Profit on Materials and Labor										
	20.00%			5,827				4,283		10,110

TOTAL 11.165 NEW PUBLIC ADDRESS (GYM AND STAGE):

\$ 60,661

11.00 RENOVATION

11.166 NEW HEARING IMPAIRED AUDIO SYSTEM

11.00 RENOVATION					TOTAL					
11.166 NEW HEARING IMPAIRED AUDIO					MATERIAL/EQUIPMENT		LABOR		MATERIAL/EQUIP.	
SYSTEM	Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR	
<u>ELECTRICAL (SUBCONTRACTOR)</u>										
Master transmitter	1	EA	1115.00	1,115	2.180	2.18				
Slave transmitter	8	EA	990.00	7,920	1.200	9.60				
Infrared radiator with wire guard	2	EA	402.00	804	3.130	6.26				
Stethoscope style receiver	4	EA	186.00	744	1.310	5.24				
Lanyard style receiver	2	EA	186.00	372	1.310	2.62				
3/4" diameter EMT conduit	200	LF	1.10	220	0.062	12.40				
Wiring	200	LF	1.00	200	0.015	3.00				
Cutting and patching	1	LOT	267.00	267	6.000	6.00				
Testing	1	LOT			2.000	2.00				
<i>SUBTOTAL HOURS:</i>						<u>49.30</u>	<i>HRS</i>			
Premium Time	10.00%					4.93				
<i>SUBTOTAL:</i>				<u>\$11,642</u>		<u>54.23</u>	<i>HRS</i>	<u>\$95.83</u>	<u>\$5,197</u>	<u>\$16,839</u>
Subcontractor's Overhead and Profit on Materials and Labor		20.00%		2,328					1,039	3,367

TOTAL 11.166 NEW HEARING IMPAIRED AUDIO SYSTEM:	\$ 20,206
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11.00 RENOVATION

11.00 RENOVATION									
11.167 NEW SECURITY SYSTEM/CCTV	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>ELECTRICAL (SUBCONTRACTOR)</u>									
<u>Security System</u>									
12-zone security control panel with keypad, including stand-by batteries and charger	1	EA	2,676.00	2,676	5.500	5.50			
Headend equipment	1	LOT	5,300.00	5,300	16.000	16.00			
Classroom door lockdown hardware/interface	35	EA	1,011.00	35,385	7.000	245.00			
Proximity card reader	2	EA	445.00	890	3.750	7.50			
Door security contact	35	EA	143.00	5,005	1.700	59.50			
Glass break detector	30	EA	124.00	3,720	0.900	27.00			
Infrared motion detector, long coverage	9	EA	300.00	2,700	3.750	33.75			
Connection to fire alarm system	1	EA	116.00	116	1.150	1.15			
3/4" diameter EMT conduit	1,800	LF	1.10	1,980	0.062	111.60			
6-plenum security wire	1,800	LF	1.00	1,800	0.015	27.00			
Cat 6 camera cable	150	LF	1.00	150	0.015	2.25			
<u>Set, Reset, and Lockdown Features</u>									
Set, reset and lockdown system interface with door access system (allowance)	1	LOT	11289.00	11,289	200.000	200.00			
<u>Video Surveillance System</u>									
Data network switch, VOIP network switches, VOIP server	1	LOT	11448.00	11,448	90.900	90.90			
CCTV server	1	EA	3710.00	3,710	12.120	12.12			

11.00 RENOVATION

11.00 RENOVATION									
11.167 NEW SECURITY SYSTEM/CCTV	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>ELECTRICAL (SUBCONTRACTOR) (Continued)</u>									
<u>Video Surveillance System (Continued)</u>									
Video recording and monitoring equipment	1	LOT	7950.00	7,950	21.820	21.82			
Interior ceiling mounted camera	8	EA	800.00	6,400	3.300	26.40			
Exterior camera in weatherproof heated enclosure	6	EA	1800.00	10,800	6.800	40.80			
3/4" diameter EMT conduit	210	LF	1.10	231	0.062	13.02			
Category 6 cable	1,500	LF	1.00	1,500	0.015	22.50			
6-strand fiber optic cable	200	LF	1.92	384	0.012	2.40			
<u>Miscellaneous</u>									
Cutting and patching for installation	41,400	SF	0.23	9,522	0.002	82.80			
Testing	1	LOT			20.000	20.00			
SUBTOTAL HOURS:						1,069.01 HRS			
Premium Time	10.00%					106.90			
SUBTOTAL:				\$122,956	1,175.91 HRS	\$95.83	\$112,687	\$235,643	
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			24,591				22,537	47,128
TOTAL 11.167 NEW SECURITY SYSTEM:									\$ 282,771
COST PER SQUARE FOOT:									\$ 6.83 /SF
GROSS FLOOR AREA:									41,400 SF

11.00 RENOVATION

11.00 RENOVATION									
11.168 KEY CARD ENTRY SYSTEM	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
<u>ELECTRICAL (SUBCONTRACTOR)</u>									
Computerized system, processor, proximity readers, and cards	4	EA	1,394.00	5,576	4.500	18.00			
Electric/magnetic strike	4	EA	694.00	2,776	2.000	8.00			
Programming, testing, and set up	4	EA			1.500	6.00			
3/4" diameter EMT conduit	48	LF	1.10	53	0.062	2.98			
Wire	400	LF	1.00	400	0.015	6.00			
Cutting and patching for installation	4	EA	267.00	1,068	8.000	32.00			
Testing	1	LOT			8.000	8.00			
SUBTOTAL HOURS:						80.98 HRS			
Premium Time	10.00%					8.10			
SUBTOTAL:				\$9,873		89.08 HRS	\$95.83	\$8,537	\$18,410
Subcontractor's Overhead and Profit on Materials and Labor					1,975			1,707	3,682
TOTAL 11.168 KEY CARD ENTRY SYSTEM:									
COST PER EACH:									
EACH:									
							\$ 22,092	\$ 5,523.00 /EA	4 EA

11.00 RENOVATION

11.00 RENOVATION										
11.169 ENHANCED RECEPTION SECURITY	Qty	MATERIAL/EQUIPMENT			LABOR		TOTAL MATERIAL/EQUIP.			
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR	
<u>ELECTRICAL (SUBCONTRACTOR)</u>										
Proximity card reader	1	EA	445.00	445	5.750	5.75				
Panic button	1	EA	185.00	185	1.750	1.75				
Interior CCTV camera	2	EA	800.00	1,600	3.670	7.34				
Double door electrification/provisions for lockdown	1	EA	4568.00	4,568	7.450	7.45				
Cutting and patching for installation	4	EA	267.00	1,068	8.000	32.00				
Testing	1	LOT			8.000	8.00				
SUBTOTAL HOURS:						62.29 HRS				
Premium Time	10.00%					6.23				
SUBTOTAL:				\$7,866		68.52 HRS	\$95.83	\$6,566	\$14,432	
Subcontractor's Overhead and Profit on Materials and Labor				20.00%	1,573			1,313	2,886	
TOTAL 11.169 ENHANCED RECEPTION SECURITY:										\$ 17,318 EA

12 ADDITIONAL COST FOR HAZARDOUS MATERIALS REMOVAL (OPTIONS)

12.01 COMPLETE RENOVATION (INTERIOR) (REMOVAL ONLY)	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
Mobilization and demobilization of personnel and equipment	1	LOT	1820.00	1,820	40.000	40.00			
Abatement equipment	1	LOT	3224.00	3,224	8.000	8.00			
Personnel decontamination station	2	EA	1326.00	2,652	35.000	70.00			
Regulated work area	2	EA	832.00	1,664	20.000	40.00			
PCM test	16	EA	36.00	576	1.000	16.00			
TCLP test	2	EA	3120.00	6,240					
Air monitoring	24	EA	193.00	4,632					
Work plan fee	1	LOT	1768.00	1,768					
<u>ASBESTOS</u>									
Remove gypboard	115,415	SF			0.042	4,847.43			
Remove vinyl flooring	5,450	SF			0.042	228.90			
Remove ceiling tiles	36,050	SF			0.032	1,153.60			
Remove pipe insulation	5,360	LF			0.085	455.60			
Remove adhesive in back splash	2,880	SF			0.075	216.00			
Vacuum clean	41,400	SF	0.06	2,484	0.005	207.00			
<u>LEAD PAINT</u>									
Gypboard (elsewhere)									
Doors and frames	84	EA			1.000	84.00			
Sealed container with lead waste to be placed in a drum	1	EA	83.00	83	1.000	1.00			

12 ADDITIONAL COST FOR HAZARDOUS MATERIALS REMOVAL (OPTIONS)

12.01 COMPLETE RENOVATION (INTERIOR) (REMOVAL ONLY)	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		MATERIAL/EQUIP.	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	& LABOR
<u>PCBs</u>									
Ballast in fixture	660	EA			0.520	343.20			
Place ballast in drum	22	EA	83.00	1,826	1.000	22.00			
<u>MISCELLANEOUS</u>									
Load and haul	220	TONS	8.25	1,815	0.140	30.80			
Disposal charge	220	TONS	113.00	24,860	0.100	22.00			
Inspection of materials at dump	18	EA			1.000	18.00			
Move drum to landfill out of state	23	EA	1089.00	25,047	1.000	23.00			
<i>SUBTOTAL:</i>									
				\$78,691		7,826.53 HRS	\$81.64	\$638,958	\$717,649
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			15,738				127,792	143,530
TOTAL 12.01 COMPLETE RENOVATION (INTERIOR) (REMOVAL ONLY):								\$ 861,179	
COST PER SQUARE FOOT:								\$ 20.80 /SF	
GROSS FLOOR AREA:								41,400 SF	

12 ADDITIONAL COST FOR HAZARDOUS MATERIALS REMOVAL (OPTIONS)

12.02 ROOF REPLACEMENT (ROOF AREA) (REMOVAL ONLY)	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
Mobilization and demobilization of personnel and equipment	1	LOT	1820.00	1,820	40.000	40.00			
Abatement equipment	1	LOT	3224.00	3,224	8.000	8.00			
Personnel decontamination station	2	EA	1326.00	2,652	35.000	70.00			
Regulated work area	1	EA	832.00	832	20.000	20.00			
PCM test	4	EA	36.00	144	1.000	4.00			
Down wind air monitoring	6	EA	193.00	1,158					
Work plan fee	1	LOT	1768.00	1,768					
<u>ASBESTOS</u>									
Remove roofing	44,170	SF			0.035	1,545.95			
Load and haul	42	TONS	8.25	347	0.140	5.88			
Disposal charges	42	TONS	113.00	4,746	0.100	4.20			
Inspection of materials at dump	2	EA			1.000	2.00			
SUBTOTAL:				\$16,691		1,700.03 HRS	\$81.64	\$138,790	\$155,481
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			3,338				27,758	31,096
TOTAL 12.02 ROOF REPLACEMENT (ROOF AREA) (REMOVAL ONLY):								\$ 186,577	
COST PER SQUARE FOOT:								\$ 4.22 /SF	
GROSS ROOF AREA:								44,170 SF	

12 ADDITIONAL COST FOR HAZARDOUS MATERIALS REMOVAL (OPTIONS)

12.03 EXTERIOR UPGRADE (NUMBER OF DOORS) (REMOVAL ONLY)	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
Mobilization and demobilization of personnel and equipment	1	LOT	1820.00	1,820	40.000	40.00			
Abatement equipment	1	LOT	1040.00	1,040	2.000	2.00			
Personnel decontamination station	1	EA	1326.00	1,326	35.000	35.00			
Regulated work area	1	EA	832.00	832	20.000	20.00			
PCM tests	4	EA	36.00	144	1.000	4.00			
Air monitoring	6	EA	193.00	1,158					
Work plan fee	1	LOT	780.00	780					
<u>LEAD PAINT</u>									
Gypboard (elsewhere)									
Doors and frames	28	EA			1.000	28.00			
Sealed container with lead waste to be placed in a drum	1	EA	83.00	83	1.000	1.00			
Load and haul	1	TON	8.25	8	0.140	0.14			
Disposal charge	1	TON	113.00	113	0.100	0.10			
Inspection of materials at dump	1	EA			1.000	1.00			
Move drum to landfill out of state	1	EA	1089.00	1,089	1.000	1.00			
SUBTOTAL:				\$8,393		132.24 HRS	\$81.64	\$10,796	\$19,189

12 ADDITIONAL COST FOR HAZARDOUS MATERIALS REMOVAL (OPTIONS)										TOTAL
12.03 EXTERIOR UPGRADE (NUMBER OF DOORS)										MATERIAL/EQUIP.
(REMOVAL ONLY)	Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR	
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			1,679				2,159	3,838	

TOTAL 12.03 EXTERIOR UPGRADE (NUMBER OF DOORS) (REMOVAL ONLY):	\$ 23,027
COST PER DOOR:	\$ 822.39 EA
NUMBER OF DOORS:	28 EA

12 ADDITIONAL COST FOR HAZARDOUS MATERIALS REMOVAL (OPTIONS)

12.04 REPLACE INTERIORS (REMOVAL ONLY)	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
Mobilization and demobilization of personnel and equipment	1	LOT	1820.00	1,820	40.000	40.00			
Abatement equipment	1	LOT	3224.00	3,224	8.000	8.00			
Personnel decontamination	2	EA	1326.00	2,652	35.000	70.00			
Regulated work area	2	EA	832.00	1,664	20.000	40.00			
PCM test	16	EA	36.00	576	1.000	16.00			
Air monitoring	24	EA	193.00	4,632					
Work plan fee	1	LOT	1768.00	1,768					
<u>ASBESTOS</u>									
Remove vinyl flooring	5,450	SF			0.042	228.90			
Remove ceiling tiles	36,050	SF			0.032	1,153.60			
Remove adhesive in back splash	2,880	SF			0.075	216.00			
Vacuum cleaning	41,400	SF	0.06	2,484	0.005	207.00			
Load and haul	46	TONS	8.25	380	0.140	6.44			
Disposal charge	46	TONS	113.00	5,198	0.100	4.60			
Inspection of materials at dump	3	EA			1.000	3.00			
SUBTOTAL:				\$24,398		1,993.54 HRS	\$81.64	\$162,753	\$187,151

12 ADDITIONAL COST FOR HAZARDOUS MATERIALS REMOVAL (OPTIONS)

12.04 REPLACE INTERIORS (REMOVAL ONLY)	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP.	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	& LABOR
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			4,880				32,551	37,431

TOTAL 12.04 REPLACE INTERIORS (REMOVAL ONLY):
COST PER SQUARE FOOT:
GROSS FLOOR AREA:

\$ 224,582
\$ 5.42 /SF
41,400 SF

12 ADDITIONAL COST FOR HAZARDOUS MATERIALS REMOVAL (OPTIONS)

12.05 REPLACE PLUMBING FIXTURES

(REMOVAL ONLY)

12 ADDITIONAL COST FOR HAZARDOUS MATERIALS REMOVAL (OPTIONS)					TOTAL	
12.05 REPLACE PLUMBING FIXTURES (REMOVAL ONLY)	Qty	Unit	Rate	TOTAL	Hours	Subtotal
Mobilization and demobilization of personnel and equipment	1	LOT	1820.00	1,820	40.000	40.00
Abatement equipment	1	LOT	324.00	324	2.000	2.00
Personnel decontamination station	1	EA	1326.00	1,326	35.000	35.00
Regulated work area	1	EA	832.00	832	20.000	20.00
PCM test	10	EA	36.00	360	1.000	10.00
Air monitoring	8	EA	193.00	1,544		
Work plan fee	1	LOT	750.00	750		
ASBESTOS						
Remove pipe insulation	1,000	LF			0.085	85.00
Load and haul	1	TON	8.25	8	0.140	0.14
Disposal charge	1	TON	113.00	113	0.100	0.10
Inspection of materials at dump	1	EA			1.000	1.00
SUBTOTAL:				\$7,077	193.24 HRS	\$81.64 \$15,776
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			1,415		3,155 4,570

TOTAL 12.05 REPLACE PLUMBING FIXTURES (REMOVAL ONLY):

COST PER FIXTURE:

NUMBER OF FIXTURES:

\$ 27,423

\$ 559.65 EA

49 EA

12 ADDITIONAL COST FOR HAZARDOUS MATERIALS REMOVAL (OPTIONS)

12.06 REPLACE HEATING AND VENTILATION SYSTEM (REMOVAL ONLY)	MATERIAL/EQUIPMENT				LABOR		TOTAL MATERIAL/EQUIP. & LABOR		
	Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
Mobilization and demobilization of personnel and equipment	1	LOT	1820.00	1,820	40.000	40.00			
Abatement equipment	1	LOT	3224.00	3,224	8.000	8.00			
Personnel decontamination station	2	EA	1326.00	2,652	35.000	70.00			
Regulated work area	2	EA	832.00	1,664	20.000	40.00			
PCM test	16	EA	36.00	576	1.000	16.00			
Air monitoring	20	EA	193.00	3,860					
Work plan fee	1	LOT	1768.00	1,768					
<u>ASBESTOS</u>									
Remove ceiling tiles	36,050	SF			0.032	1,153.60			
Remove pipe insulation	3,300	LF			0.085	280.50			
Vacuum clean	41,400	SF	0.06	2,484	0.005	207.00			
Load and haul	43	TONS	8.25	355	0.140	6.02			
Disposal charge	42	TONS	113.00	4,746	0.100	4.20			
Inspection of materials at dump	2	EA			1.000	2.00			
SUBTOTAL:				\$23,149		1,827.32 HRS	\$81.64	\$149,182	\$172,331
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			4,630				29,836	34,466
TOTAL 12.06 REPLACE HEATING AND VENTILATION SYSTEMS (REMOVAL ONLY):								\$ 206,797	
COST PER SQUARE FOOT:								\$ 5.00 /SF	
GROSS FLOOR AREA:								41,400 SF	

12 ADDITIONAL COST FOR HAZARDOUS MATERIALS REMOVAL (OPTIONS)

12.07 NEW SPRINKLER SYSTEM (REMOVAL ONLY)	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
Mobilization and demobilization of personnel and equipment	1	LOT	1820.00	1,820	40.000	40.00			
Abatement equipment	1	LOT	3224.00	3,224	8.000	8.00			
Personnel decontamination station	2	EA	1326.00	2,652	35.000	70.00			
Regulated work area	2	EA	832.00	1,664	20.000	40.00			
PCM test	18	EA	36.00	648	1.000	18.00			
Air monitoring	24	EA	193.00	4,632					
Work plan fee	1	LOT	1768.00	1,768					
<u>ASBESTOS</u>									
Remove ceiling tiles	36,050	SF			0.032	1,153.60			
Vacuum clean	36,050	SF	0.06	2,163	0.005	180.25			
Load and haul	41	TONS	8.25	338	0.140	5.74			
Disposal charge	41	TONS	113.00	4,633	0.100	4.10			
Inspection of materials at dump	2	EA			1.000	2.00			
SUBTOTAL:				\$23,542		1,521.69 HRS	\$81.64	\$124,231	\$147,773
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			4,708				24,846	29,554
TOTAL 12.07 NEW SPRINKLER SYSTEM (REMOVAL ONLY):								\$ 177,327	
COST PER SQUARE FOOT:								\$ 4.28 /SF	
GROSS FLOOR AREA:								41,400 SF	

12 ADDITIONAL COST FOR HAZARDOUS MATERIALS REMOVAL (OPTIONS)

12.08 WORK IN CONNECTION WITH NEW

12 ADDITIONAL COST FOR HAZARDOUS MATERIALS REMOVAL (OPTIONS)									
12.08 WORK IN CONNECTION WITH NEW ELECTRICAL INSTALLATIONS (REMOVAL ONLY)	Qty	MATERIAL/EQUIPMENT			LABOR		MATERIAL/EQUIP.		TOTAL
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
Mobilization and demobilization of personnel and equipment	1	LOT	1820.00	1,820	40.000	40.00			
Abatement equipment	1	LOT	1144.00	1,144	4.000	4.00			
Personnel decontamination station	1	EA	1326.00	1,326	35.000	35.00			
Regulated work area	1	EA	832.00	832	20.000	20.00			
PCM test	6	EA	36.00	216	1.000	6.00			
Air monitoring	8	EA	193.00	1,544					
Work plan fee	1	LOT	780.00	780					
ASBESTOS									
Remove gypboard	1,000	SF			0.042	42.00			
Remove ceiling tiles	3,000	SF			0.032	96.00			
Vacuum clean	5,000	SF	0.06	300	0.005	25.00			
Load and haul	4	TONS	8.25	33	0.140	0.56			
Disposal charge	4	TONS	113.00	452	0.100	0.40			
Inspection of materials at dump	1	EA			1.000	1.00			
SUBTOTAL:				\$8,447	269.96 HRS	\$81.64	\$22,040	\$30,487	
Subcontractor's Overhead and Profit on Materials and Labor	20.00%			1,689				4,408	6,097
TOTAL 12.08 WORK IN CONNECTION WITH NEW ELECTRICAL INSTALLATIONS (REMOVAL ONLY): COST PER SQUARE FOOT: GROSS FLOOR AREA:									\$ 36,584 \$ 0.88 /SF 41,400 SF

12 ADDITIONAL COST FOR HAZARDOUS MATERIALS REMOVAL (OPTIONS)

12.09 REPLACE SMALL FUEL OIL TANK (BELOW GROUND)	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
Excavate pit around tank	100	CY	10.23	1,023	0.180	18.00			
Drain tank into new or holding tank	250	GAL	0.42	105	0.006	1.50			
Inert tank for disposal	1	EA	159.00	159	8.000	8.00			
Crush 1,000 gallon tank and dispose	1	EA	249.00	249	10.000	10.00			
Remove pipe work	1	LOT			15.000	15.00			
Testing	6	EA	187.00	1,122					
New 1,000 gallon double wall tank	1	EA	21677.00	21,677	8.000	8.00			
Leak detection system	1	LOT	9306.00	9,306	6.500	6.50			
12'0"x4'0" concrete hold down pad	1	EA	2072.00	2,072	10.000	10.00			
Piping and connection	1	LOT	1489.00	1,489	22.000	22.00			
Bedding material	25	CY	48.00	1,200	0.190	4.75			
Fill, Type II, 2" minus, and compact	75	CY	24.46	1,835	0.210	15.75			
SUBTOTAL:				\$40,237		119.50 HRS	\$90.49	\$10,814	\$51,051

TOTAL 12.09 REPLACE SMALL FUEL OIL TANK (BELOW GROUND):
COST PER GALLON:
TOTAL GALLONS:

\$ 51,051
\$ 51.05 /GAL
1,000 GAL

12 ADDITIONAL COST FOR HAZARDOUS MATERIALS REMOVAL (OPTIONS)

12.10 REPLACE BULK FUEL OIL TANK (ABOVE GROUND)

12 ADDITIONAL COST FOR HAZARDOUS MATERIALS REMOVAL (OPTIONS)							TOTAL		
12.10 REPLACE BULK FUEL OIL TANK (ABOVE GROUND)	Qty	MATERIAL/EQUIPMENT			LABOR		MATERIAL/EQUIP.		
		Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	
Drain tank into new or holding tank	1,000	GAL	0.42	420	0.006	6.00			
Crush 5,000 gallon tank and dump	1	EA	445.00	445	16.000	16.00			
Inert tank for disposal	1	EA	318.00	318	12.000	12.00			
Remove pipe work	1	LOT			15.000	15.00			
Testing	6	EA	187.00	1,122					
SUBTOTAL:				\$2,305		49.00 HRS	\$90.22	\$4,421	\$6,726

BULK FUEL STORAGE

5,000 gallon double wall tank	1	EA	84800.00	84,800	11.000	11.00	
Leak detection system	1	LOT	9306.00	9,306	6.500	6.50	
4'0"x8'0" concrete pad	1	EA	1378.00	1,378	7.000	7.00	
Piping and connection	1	LOT	1490.00	1,490	17.000	17.00	
Testing oil	500	GAL	5.80	2,900	0.004	2.00	
6'0" chainlink fence	100	LF	55.00	5,500	0.200	20.00	
6'0"x10'0" gate	1	EA	2033.00	2,033	3.800	3.80	
SUBTOTAL:				\$107,407	67.30 HRS	\$90.49	\$6,090
							\$113,497

TOTAL 12.10 REPLACE BULK FUEL OIL TANK (ABOVE GROUND):

\$ 120,223

COST PER GALLON:

\$ 24.04 /GAL

TOTAL GALLONS:

5,000 GAL

12 ADDITIONAL COST FOR HAZARDOUS MATERIALS REMOVAL (OPTIONS)

12.11 REMOVE BELOW GROUND TANK AND INSTALL NEW ABOVE GROUND TANK	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
Excavate pit	525	CY	10.23	5,371	0.180	94.50			
Drain tank into new or holding tank	1,000	GAL	0.42	420	0.006	6.00			
Crush 5,000 gallon tank and dispose	1	EA	445.00	445	16.000	16.00			
Inert tank for disposal	1	EA	318.00	318	12.000	12.00			
Remove pipe work	1	LOT			15.000	15.00			
Testing	6	EA	180.00	1,080					
Fill, Type II, 2" minus and compact	525	CY	24.46	12,842	0.210	110.25			
SUBTOTAL:				\$20,476		253.75 HRS	\$90.22	\$22,893	\$43,369
<u>BULK FUEL STORAGE (ABOVE GROUND)</u>									
5,000 gallon double wall tank	1	EA	84800.00	84,800	11.000	11.00			
Leak detection system	1	LOT	9306.00	9,306	6.500	6.50			
4'0"x8'0" concrete pad	1	EA	1378.00	1,378	7.000	7.00			
Piping and reconnection	1	LOT	1490.00	1,490	17.000	17.00			
Testing oil	500	GAL	5.80	2,900	0.004	2.00			
6'0" chainlink fence	100	LF	55.00	5,500	0.200	20.00			
6'0"x10'0" gate	1	EA	2033.00	2,033	3.800	3.80			
SUBTOTAL:				\$107,407		67.30 HRS	\$90.49	\$6,090	\$113,497
TOTAL 12.11 REMOVE BELOW GROUND TANK AND INSTALL NEW ABOVE GROUND TANK:								\$ 156,866	
COST PER GALLON:								\$ 31.37 /GAL	
TOTAL GALLONS:								5,000 GAL	

12 ADDITIONAL COST FOR HAZARDOUS MATERIALS REMOVAL (OPTIONS)

12.12 REMOVE ABOVE GROUND TANK AND INSTALL NEW BELOW GROUND TANK

12 ADDITIONAL COST FOR HAZARDOUS MATERIALS REMOVAL (OPTIONS)							TOTAL		
12.12 REMOVE ABOVE GROUND TANK AND INSTALL NEW BELOW GROUND TANK		MATERIAL/EQUIPMENT			LABOR		MATERIAL/EQUIP.		
	Qty	Unit	Rate	TOTAL	Hours	Subtotal	Rate	TOTAL	& LABOR
Drain tank into new or holding tank	1,000	GAL	0.42	420	0.006	6.00			
Crush 5,000 gallon tank and dispose	1	EA	445.00	445	16.000	16.00			
Inert tank for disposal	1	EA	318.00	318	12.00	12.00			
Remove pipe work	1	LOT			15.000	15.00			
Testing	6	EA	187.00	1,122					
SUBTOTAL:				\$2,305		49.00 HRS	\$90.22	\$4,421	\$6,726

BULK FUEL STORAGE (BELOW GROUND)

Excavation pit and remove material	525	CY	10.23	5,371	0.180	94.50		
New 5,000 gallon tank	1	EA	84800.00	84,800	11.000	11.00		
Leak detection system	1	LOT	9306.00	9,306	6.500	6.50		
Concrete, 4'0"x8'0" ballast	1	EA	1378.00	1,378	7.000	7.00		
Piping and reconnection	1	LOT	1490.00	1,490	22.000	22.00		
Testing oil	500	GAL	5.80	2,900	0.004	2.00		
Bedding material	125	CY	48.00	6,000	0.190	23.75		
Fill, Type II, 2" minus, and compact	372	CY	24.46	9,099	0.210	78.12		
SUBTOTAL:				\$120,344	244.87 HRS	\$90.49	\$22,158	\$142,502

TOTAL 12.12 REMOVE ABOVE GROUND TANK AND INSTALL NEW BELOW GROUND TANK:

\$ 149,228

COST PER GALLON:

\$ 29.85 /GAL

TOTAL GALLONS:

5,000 GAL

12 ADDITIONAL COST FOR HAZARDOUS MATERIALS REMOVAL (OPTIONS)

12.13 SOIL REMEDIATION	Qty	MATERIAL/EQUIPMENT			Hours	LABOR		TOTAL MATERIAL/EQUIP. & LABOR	
		Unit	Rate	TOTAL		Subtotal	Rate	TOTAL	
Excavate and remove contaminated soils	100	CY	10.23	1,023	0.366	36.60			
POL testing	6	EA	124.00	744	2.500	15.00			
Soil remediation	100	CY	936.00	93,600	0.160	16.00			
Load and haul	150	TON	8.25	1,238	0.200	30.00			
Dump charge	150	TON	113.00	16,950	0.100	15.00			
NFS backfilling, Type II, 2" minus	100	CY	24.46	2,446	0.210	21.00			
SUBTOTAL:				\$116,001		133.60 HRS	\$90.49	\$12,089	\$128,090

TOTAL 12.13 SOIL REMEDIATION:
COST PER CUBIC YARD:
TOTAL CUBIC YARDS:

\$ 128,090
\$ 1,280.90 /CY
100 CY

APRIL 2026 LABOR RATES

TAXES AND INSURANCE BREAKDOWN

FICA and Medicare	7.65%
FUTA	0.60%
ESC	<u>1.50%</u>

SUBTOTAL: 9.75%

Plus Workers' Comp

CARPENTER (A0301)

Workers' Comp.	6.28%
Base Hourly Rate	
Taxes and Insurance	16.03%
Fringes	

\$ 52.54
8.42
28.21

TOTAL RATE: \$ 89.17 /Hour

LABORER (S1202)

Workers' Comp.	6.11%
Base Hourly Rate	
Taxes and Insurance	15.86%
Fringes	

\$ 43.25
6.86
35.36

TOTAL RATE: \$ 85.47 /Hour

SITE WORK

Equipment Operator (A1601)	\$ 96.83
Laborer (S1202)	85.47
Carpenter (S0301)	<u>89.17</u>

/ 3

Combine
\$ 87.33 /Hour

\$ 90.49 /Hour

APRIL 2026 LABOR RATES

ROOFING (A1701)

Workers' Comp.	17.05%	
Base Hourly Rate		\$ 52.07
Taxes and Insurance	26.80%	13.95
Fringes		<u>20.31</u>
TOTAL RATE:		<u><u>\$ 86.33</u></u> /Hour

PLUMBER (S1501)

Workers' Comp.	3.83%	
Base Hourly Rate		\$ 50.00
Taxes and Insurance	13.58%	6.79
Fringes		<u>33.40</u>
TOTAL RATE:		<u><u>\$ 90.19</u></u> /Hour

ELECTRICIAN (A0702)

Workers' Comp.	2.37%	
Base Hourly Rate		\$ 57.44
Taxes and Insurance	12.12%	6.96
Fringes		<u>31.43</u>
TOTAL RATE:		<u><u>\$ 95.83</u></u> /Hour

FINISHES (PAINTERS) (S1301)

Workers' Comp.	5.59%	
Base Hourly Rate		\$ 37.29
Taxes and Insurance	15.34%	5.72
Fringes		<u>30.30</u>
TOTAL RATE:		<u><u>\$ 73.31</u></u> /Hour

IRON WORKERS (A1101)

Workers' Comp.	12.01%	
Base Hourly Rate		\$ 48.48
Taxes and Insurance	21.76%	10.55
Fringes		<u>38.18</u>
TOTAL RATE:		<u><u>\$ 97.21</u></u> /Hour

POWER EQUIPMENT OPERATORS (A1601)

Workers' Comp.	8.86%	
Base Hourly Rate		\$ 55.75
Taxes and Insurance	18.61%	10.38
Fringes		<u>30.70</u>
TOTAL RATE:		<u><u>\$ 96.83</u></u> /Hour

APRIL 2026 LABOR RATES

ELEVATOR MECHANIC (A0803)

Workers' Comp.	2.01%	
Base Hourly Rate		\$ 74.44
Taxes and Insurance	11.76%	8.75
Fringes		<u>49.15</u>
TOTAL RATE:		<u><u>\$ 132.34</u></u> /Hour

DEMOLITION LABORER (S1201)

Workers' Comp.	20.10%	
Base Hourly Rate		\$ 42.25
Taxes and Insurance	29.85%	12.61
Fringes		<u>35.36</u>
TOTAL RATE:		<u><u>\$ 90.22</u></u> /Hour

HAZARDOUS MATERIAL HANDLER (S0902)

Workers' Comp.	20.10%	
Base Hourly Rate		\$ 45.85
Taxes and Insurance	29.85%	13.69
Fringes		<u>22.10</u>
TOTAL RATE:		<u><u>\$ 81.64</u></u> /Hour