

**PROJECT: Construct New Office Addition to BRVC 11,000 sf**

<b>Project name</b>	General
<b>Estimator</b>	KLTHOMPSON
<b>Labor rate table</b>	LAB-2013-Burd/WC
<b>Equipment rate table</b>	EQP-2013
<b>Bid date</b>	2/17/2009 1:49 PM
<b>Location/Asset No</b>	20479
<b>Work Order No</b>	1605806
<b>Revision No</b>	00
<b>Park Alpha Code</b>	BADL
<b>Work Order Type</b>	CI
<b>Database</b>	CESSDATA08
<b>Pricing Date</b>	1/1/2008
<b>WorkSubType</b>	AL
<b>Definable field 15</b>	P065
<b>Status</b>	COMPLETED
<b>Report format</b>	Sorted by 'Group phase/Phase' 'Detail' summary
<b>Cost index</b>	BADL

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>0110.0000 SUMMARY</b>								
<b>0110.0001 Summary</b>								
0000	NPS CESS Data Update 2013; Prices as of 1/1/2013; Revision 0 Release 3			Oth		ver		
0000	NPS CESS Data Update 2013; Prices as of 1/1/2013; Revision 0 Release 3			Oth		ver		
<b>SUMMARY</b>								<b>0</b>
<b>0311.0000 CONCRETE FORMING</b>								
<b>0311.1345 Forms In Place, Footings</b>								
n 0150	Forms in place, footings, continuous wall, plywood, 4 use		1,092.00 sfca	Lab Mat	485.00000 sfca/cd	2.25 cd 1,092.00 sfca	1,541.90 1.91	3,472 2,083
n 1550	Forms in place, footings, keyway, 4 use, tapered wood, 2"x 6"		546.00 lf	Lab Mat	500.00000 lf/cd	1.09 cd 546.00 lf	406.73 0.27	444 145
<b>Forms In Place, Footings</b>								<b>6,144</b>
80.79 Labor hours								
<b>0311.1365 Forms Place, Slab Grade</b>								
n 3000	Forms in place, SOG, edge forms, to 6"high, wood, 4 use		330.00 lf	Lab Mat	600.00000 lf/cd	0.55 cd 330.00 lf	1,541.90 0.294	848 97
<b>Forms Place, Slab Grade</b>								<b>945</b>
17.60 Labor hours								
<b>0311.1385 Forms In Place, Walls</b>								
n 9060	Form in place, walls, stl frm plyw,-8'H, 100use frm , 4use brcg		3,360.00 sfca	Lab Mat	600.00000 sfca/cd	5.60 cd 3,360.00 sfca	2,375.711 0.57	13,304 1,913
n 9060	Form in place, walls, stl frm plyw,-8'H, 100use frm , 4use brcg		4,368.00 sfca	Lab Mat	600.00000 sfca/cd	7.28 cd 4,368.00 sfca	2,375.711 0.57	17,295 2,487
<b>Forms In Place, Walls</b>								<b>34,999</b>
618.24 Labor hours								
<b>CONCRETE FORMING</b>								<b>42,088</b>
716.63 Labor hours								
<b>0315.0000 CONCRETE ACCESSORIES</b>								
<b>0315.0502 Anchor Bolts</b>								
n 0200	Anchor bolts, J-type, .625"dia. x 12"L, incl. nut & washer		147.00 ea	Lab Mat	80.00000 ea/cd	1.84 cd 147.00 ea	406.73 2.67	747 392
<b>Anchor Bolts</b>								<b>1,140</b>
14.70 Labor hours								
<b>0315.0525 Expansion Joint</b>								

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
0315.0525	<b>Expansion Joint</b>							
n 2000	Expansion joint, premolded, bituminous fiber, 1/2" x 6"		2,420.00 lf		375.00000 lf/cd	6.45 cd	406.73	2,625
						2,420.00 lf	0.41	988
	<b>Expansion Joint</b>							<b>3,612</b>
	51.63 Labor hours							
<b>CONCRETE ACCESSORIES</b>								<b>4,752</b>
	66.33 Labor hours							
<b>0321.0000</b>	<b>REINFORCING STEEL</b>							
0321.1060	<b>Reinforcing In Place</b>							
n 0501	Reinforcing in place, A615 Gr 60, footings, #4 to #7		1,638.00 lb		4,200.00000 lb/cd	0.39 cd	1,887.310	736
						1,638.00 lb	0.493	808
n 0700	Reinforcing in place, A615 Gr 60, walls, #3 to #7		1.01 tn		3.00000 tn/cd	0.34 cd	1,887.310	634
						1.01 tn	949.000	957
n 0700	Reinforcing in place, A615 Gr 60, walls, #3 to #7		1.97 tn		3.00000 tn/cd	0.66 cd	1,887.310	1,237
						1.97 tn	949.000	1,866
n 2000	Reinforcing steel, unload and sort, add to base		1.01 tn		100.00000 tn/cd	0.01 cd	3,141.182	32
						0.01 cd	749.141	8
n 2000	Reinforcing steel, unload and sort, add to base		1.97 tn		100.00000 tn/cd	0.02 cd	3,141.182	62
						0.02 cd	749.141	15
n 2410	Reinforcing stl, in place, dowels, deformed, 2' L, #4, A615, grade 60		1,092.00 ea		480.00000 ea/cd	2.28 cd	943.66	2,147
						1,092.00 ea	0.693	757
	<b>Reinforcing In Place</b>							<b>9,257</b>
	82.27 Labor hours							
	0.24 Equipment hours							
<b>REINFORCING STEEL</b>								<b>9,257</b>
	82.27 Labor hours							
	0.24 Equipment hours							
<b>0322.0000</b>	<b>WELDED WIRE FABRIC</b>							
0322.0550	<b>Welded Wire Fabric</b>							
n 0100	Welded wire fabric, shts, 6x6-W1.4 x W1.4 (10x10) 121lb per CSF, A185		110.00 csf		35.00000 csf/cd	3.14 cd	943.66	2,966
						110.00 csf	13.86	1,524
	<b>Welded Wire Fabric</b>							<b>4,490</b>
	50.29 Labor hours							
<b>WELDED WIRE FABRIC</b>								<b>4,490</b>
	50.29 Labor hours							
<b>0331.0000</b>	<b>STRUCTURAL CONCRETE</b>							
0331.0535	<b>Norm Wt Conc, Ready Mix</b>							
n 0150	Concrete, ready mix, regular weight, 3000 psi		40.404 cy			40.40 cy	92.053	3,719

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>0331.0535</b>	<b>Norm Wt Conc, Ready Mix</b>							
n 0150	Concrete, ready mix, regular weight, 3000 psi		41.58 cy	Mat		41.58 cy	92.053	3,828
n 0150	Concrete, ready mix, regular weight, 3000 psi		80.81 cy	Mat		80.81 cy	92.053	7,439
n 0200	Concrete, ready mix, regular weight, 3500 psi		132.00 cy	Mat		132.00 cy	93.951	12,402
	<b>Norm Wt Conc, Ready Mix</b>							<b>27,387</b>
<b>0331.0570</b>	<b>Placing Concrete</b>							
n 1900	Struct conc, plcng, cont ftng, shallow, drct cht, incl vbrtng, exc mat		40.404 cy	Lab Eqp	120.00000 cy/cd 120.00000 cy/cd	0.34 cd 0.34 cd	1,993.583 49.35	671 17
n 4300	Structural conc, plcng, SOG, direct chute, 4"thk, incl vbrtng, exc mat		132.00 cy	Lab Eqp	110.00000 cy/cd 110.00000 cy/cd	1.20 cd 1.20 cd	1,993.583 49.35	2,392 59
n 4900	Structural conc, plcng, walls, drct chute, 8"thk, incl vbrtng, xc mat		41.58 cy	Lab Eqp	90.00000 cy/cd 90.00000 cy/cd	0.46 cd 0.46 cd	1,993.583 49.35	921 23
n 5050	Strctrl conc, plcng, walls, drct chute, 12"thk, incl vbrtng, exc mat		80.81 cy	Lab Eqp	100.00000 cy/cd 100.00000 cy/cd	0.81 cd 0.81 cd	1,993.583 49.35	1,611 40
	<b>Placing Concrete</b>							<b>5,734</b>
	134.73 Labor hours							
	44.91 Equipment hours							
<b>STRUCTURAL CONCRETE</b>								<b>33,121</b>
	134.73 Labor hours							
	44.91 Equipment hours							
<b>0335.0000</b>	<b>CONCRETE FINISHING</b>							
<b>0335.2930</b>	<b>Finishing Floors</b>							
n 0100	Conc. finishing, floors, monolithic, screed & bull float(darby) finish		1,092.00 sf	Lab	4,000.00000 sf/cd	0.27 cd	1,050.98	287
n 0250	Concrete finishing, floors, monolithic, machine trowel finish		11,000.00 sf	Lab Eqp	1,715.00000 sf/cd 1,715.00000 sf/cd	6.41 cd 6.41 cd	1,050.98 40.24	6,741 258
	<b>Finishing Floors</b>							<b>7,286</b>
	160.49 Labor hours							
	51.312 Equipment hours							
<b>0335.2960</b>	<b>Finishing Walls</b>							
n 0020	Concrete finishing, walls, includes breaking ties and patching voids		1,680.00 sf	Lab Mat	540.00000 sf/cd	3.11 cd 1,680.00 sf	364.63 0.04	1,134 64
n 0020	Concrete finishing, walls, includes breaking ties and patching voids		2,184.00 sf	Lab Mat	540.00000 sf/cd	4.04 cd 2,184.00 sf	364.63 0.04	1,475 83
	<b>Finishing Walls</b>							<b>2,756</b>
	57.244 Labor hours							

Item	Description	Location	Takeoff Qty		W%	Conversion	Order Qty	Unit Price	Amount
<b>CONCRETE FINISHING</b>									<b>10,042</b>
	217.732 Labor hours								
	51.312 Equipment hours								
<b>0339.0000 CONCRETE CURING</b>									
<b>0339.2313</b>	<b>Chem Cmpnd Membr Conc Cur</b>								
n 0300	Curing, sprayed membrane compound		110.00	csf	Lab	95.00000 csf/cd	1.16 cd	643.44	745
					Mat		110.00 csf	7.64	840
	<b>Chem Cmpnd Membr Conc Cur</b>								<b>1,585</b>
	18.53 Labor hours								
<b>CONCRETE CURING</b>									<b>1,585</b>
	18.53 Labor hours								
<b>0405.1600 MASONRY GROUTING</b>									
<b>0405.1630</b>	<b>Grouting</b>								
n 0250	Grout, CMU (CMU) cores, 8"thk, 0.258 C.F./S.F., pumped, exc. blockwork		1,008.00	sf	Lab	680.00000 sf/cd	1.48 cd	1,414.344	2,097
					Mat		1,008.00 sf	1.063	1,071
					Eqp	680.00000 sf/cd	1.48 cd	120.333	178
	<b>Grouting</b>								<b>3,346</b>
	47.44 Labor hours								
	11.86 Equipment hours								
<b>MASONRY GROUTING</b>									<b>3,346</b>
	47.44 Labor hours								
	11.86 Equipment hours								
<b>0405.1900 ANCHORAGE &amp; REINFORCEMENT</b>									
<b>0405.1926</b>	<b>Masonry Reinforcing Bars</b>								
n 0060	#5 and #6 reinforcing steel bars, placed vertically, ASTM A615		1,733.76	lb	Lab	650.00000 lb/cd	2.67 cd	401.875	1,072
					Mat		1,733.76 lb	0.475	823
n 0700	Ladder stl jnt rnfrcng, mill std galv, 8"wall, 9 ga sides, 9 ga ties		32.26	clf	Lab	25.00000 clf/cd	1.29 cd	401.875	519
					Mat		32.26 clf	17.56	566
n 0700	Ladder stl jnt rnfrcng, mill std galv, 8"wall, 9 ga sides, 9 ga ties		13.12	clf	Lab	25.00000 clf/cd	0.52 cd	401.875	211
					Mat		13.12 clf	17.56	230
	<b>Masonry Reinforcing Bars</b>								<b>3,421</b>
	35.86 Labor hours								
<b>ANCHORAGE &amp; REINFORCEMENT</b>									<b>3,421</b>
	35.86 Labor hours								
<b>0405.2300 MASONRY ACCESSORIES</b>									
<b>0405.2313</b>	<b>Control/Expansion Joint</b>								
n 0050	Control joint, PVC, 4" wall		201.60	lf	Lab	400.00000 lf/cd	0.50 cd	401.875	203

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<b>0405.2313</b>	<b>Control/Expansion Joint</b>								
n 0050	Control joint, PVC, 4" wall		201.60	lf			201.60	1.18	237
n 0050	Control joint, PVC, 4" wall		82.00	lf		400.00000 lf/cd	0.21	401.875	82
							82.00	1.18	96
	<b>Control/Expansion Joint</b>								<b>619</b>
	5.672 Labor hours								
<b>MASONRY ACCESSORIES</b>									<b>619</b>
	5.672 Labor hours								
<b>0422.0000</b>	<b>CONCRETE UNIT MASONRY</b>								
<b>0422.1034</b>	<b>Concrete Block,Partitions</b>								
n 4200	Normal weight CMU, part, hlw, tld jnt bth side, 2000 psi, 8"x 8"x 16"		1,640.00	sf		375.00000 sf/cd	4.37	1,843.66	8,063
							1,640.00	2.154	3,533
	<b>Concrete Block,Partitions</b>								<b>11,596</b>
	174.933 Labor hours								
<b>0422.1036</b>	<b>CMU Walls, System Only</b>								
n 5440	CMU, Split ribbed block, 8 ribs, reg. wt. hollow, 8"x8"x16"units		4,032.00	sf		305.00000 sf/cd	13.22	1,843.66	24,373
							4,032.00	4.650	18,749
	<b>CMU Walls, System Only</b>								<b>43,122</b>
	528.79 Labor hours								
<b>CONCRETE UNIT MASONRY</b>									<b>54,718</b>
	703.72 Labor hours								
<b>0521.0000</b>	<b>STEEL JOIST FRAMING</b>								
<b>0521.1910</b>	<b>Open Web Joists</b>								
n 0480	Open web joists, K series, horiz bridging, 30' to 50', maximum		36,410.00	lb		20,000.00000 lb/cd	1.82	4,994.040	9,092
							36,410.00	0.76	27,642
							1.82	1,907.19	3,472
	<b>Open Web Joists</b>								<b>40,206</b>
	145.640 Labor hours								
	43.692 Equipment hours								
<b>STEEL JOIST FRAMING</b>									<b>40,206</b>
	145.640 Labor hours								
	43.692 Equipment hours								
<b>0531.0000</b>	<b>STEEL DECKING</b>								
<b>0531.2350</b>	<b>Roof Decking</b>								
n 2400	Metal decking, stl, open, W rib, galv, over 500 Sq, 1.5"D, 22 ga		11,550.00	sf		5,100.00000 sf/cd	2.26	2,116.59	4,793
							11,550.00	1.32	15,236
							2.26	127.36	288

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
	<b>Roof Decking</b>							<b>20,318</b>
	72.471 Labor hours							
	18.12 Equipment hours							
<b>STEEL DECKING</b>								<b>20,318</b>
	72.471 Labor hours							
	18.12 Equipment hours							
<b>0611.0000</b>	<b>WOOD FRAMING</b>							
<b>0611.1024</b>	<b>Miscellaneous Framing</b>							
n 8700	Wood framing, miscellaneous, nailers, treated, stl construction, 2"x8"		0.56 mbf	Lab Mat	0.87000 mbf/cd	0.64 cd 0.56 mbf	813.452 612.11	524 343
	<b>Miscellaneous Framing</b>							<b>866</b>
	10.30 Labor hours							
<b>WOOD FRAMING</b>								<b>866</b>
	10.30 Labor hours							
<b>0726.0000</b>	<b>VAPOR RETARDERS</b>							
<b>0726.1010</b>	<b>Vapor Retarders</b>							
n 0900	Building Paper, PE vapor barrier, std, .006"thk, 9' x 400' roll		110.00 sq	Lab Mat	37.00000 sq/cd	2.97 cd 110.00 sq	406.73 3.824	1,209 421
	<b>Vapor Retarders</b>							<b>1,630</b>
	23.784 Labor hours							
<b>VAPOR RETARDERS</b>								<b>1,630</b>
	23.784 Labor hours							
<b>0751.0000</b>	<b>BUILT-UP BITUM ROOFING</b>							
<b>0751.1320</b>	<b>Built-Up Roofing</b>							
n 0200	BUR, asph flood ct w/grvl surf, base sheet, 3 plies #15 felt, mppd		110.00 sq	Lab Mat Eqp	22.00000 sq/cd	5.00 cd 110.00 sq 5.00 cd	2,507.843 93.48 417.560	12,539 10,282 2,088
	<b>Built-Up Roofing</b>							<b>24,909</b>
	280.00 Labor hours							
	120.00 Equipment hours							
<b>0751.1330</b>	<b>Cants</b>							
n 0012	Cants, treated lumber, cut diagonally, 4" x 4"		420.00 lf	Lab Mat	325.00000 lf/cd	1.29 cd 420.00 lf	383.540 1.803	496 757
	<b>Cants</b>							<b>1,253</b>
	10.34 Labor hours							

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>BUILT-UP BITUM ROOFING</b>								<b>26,162</b>
	290.34	Labor hours						
	120.00	Equipment hours						
<b>0753.0000 ELSTMRC MEMBRANE ROOFING</b>								
<b>0753.1610</b>	<b>CPE Roofing</b>							
n 1100	Single-Ply Membrane, CSPE, .029PSF, loose laid & ballasted, 45mils		4.20 sq	Lab Mat Eqp	51.00000 sq/cd 51.00000 sq/cd	0.08 cd 4.20 sq 0.08 cd	1,740.762 192.65 164.37	143 809 14
	<b>CPE Roofing</b>							<b>966</b>
	3.294	Labor hours						
	0.66	Equipment hours						
<b>ELSTMRC MEMBRANE ROOFING</b>								<b>966</b>
	3.294	Labor hours						
	0.66	Equipment hours						
<b>0771.0000 ROOF SPECIALTIES</b>								
<b>0771.1910</b>	<b>Gravel Stop</b>							
n 0020	Aluminum gravel stops, mill finish, .050" thick, 4" face height		420.00 lf	Lab Mat	145.00000 lf/cd	2.90 cd 420.00 lf	458.321 5.694	1,328 2,391
n 0350	Aluminum gravel stops, duranodic finish, .050" thick, 6" face height		420.00 lf	Lab Mat	135.00000 lf/cd	3.11 cd 420.00 lf	458.321 6.60	1,426 2,770
	<b>Gravel Stop</b>							<b>7,915</b>
	48.061	Labor hours						
<b>0771.2310</b>	<b>Downspouts</b>							
n 0020	Aluminum downspouts, embossed, 2" x 3", .020" thick		420.00 lf	Lab Mat	190.00000 lf/cd	2.21 cd 420.00 lf	458.321 0.921	1,013 387
	<b>Downspouts</b>							<b>1,400</b>
	17.684	Labor hours						
<b>0771.2330</b>	<b>Gutters</b>							
n 0100	Aluminum gutters, stock units, enameled, 5" box, .027" thick		420.00 lf	Lab Mat	120.00000 lf/cd	3.50 cd 420.00 lf	458.321 2.46	1,604 1,032
	<b>Gutters</b>							<b>2,636</b>
	28.00	Labor hours						
<b>ROOF SPECIALTIES</b>								<b>11,951</b>
	93.75	Labor hours						
<b>0811.0000 METAL DOORS &amp; FRAMES</b>								
<b>0811.1610</b>	<b>Entrance Doors &amp; Frames</b>							
n 0300	Doors/Frames, AL, ent, wide, CF, 6'-0"x7'-0"opn, hw, no gls		1.10 ea	Lab Mat	1.29999 ea/cd	0.85 cd 1.10 ea	1,046.59 1,138.800	886 1,253

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount			
<b>Entrance Doors &amp; Frames</b>								<b>2,138</b>			
	13.54	Labor hours									
<b>METAL DOORS &amp; FRAMES</b>								<b>2,138</b>			
	13.54	Labor hours									
<b>0812.0000 METAL FRAMES</b>											
<b>0812.1313 Std Hollow Metal Frames</b>											
n	1000	Frames, stl, knock down, sgl, 16 ga, up to 4-7/8"D, 7'-0"h x 3'-0"w	3.30	ea	Lab	16.00000	ea/cd	0.21	cd	813.452	168
					Mat			3.30	ea	155.64	514
n	1000	Frames, stl, knock down, sgl, 16 ga, up to 4-7/8"D, 7'-0"h x 3'-0"w	78.571	ea	Lab	16.00000	ea/cd	4.91	cd	813.452	3,995
					Mat			78.57	ea	155.64	12,228
<b>Std Hollow Metal Frames</b>								<b>16,904</b>			
	81.871	Labor hours									
<b>METAL FRAMES</b>								<b>16,904</b>			
	81.871	Labor hours									
<b>0813.0000 METAL DOORS</b>											
<b>0813.1313 Std Hollow Mtl Doors</b>											
n	1120	Doors, comm, stl, flush, fl pnl, hlw cr, 18 ga, 3'-0"x7'-0"x1.75"thk	3.30	ea	Lab	17.00000	ea/cd	0.19	cd	813.452	158
					Mat			3.30	ea	564.66	1,863
n	1120	Doors, comm, stl, flush, fl pnl, hlw cr, 18 ga, 3'-0"x7'-0"x1.75"thk	78.571	ea	Lab	17.00000	ea/cd	4.62	cd	813.452	3,760
					Mat			78.57	ea	564.66	44,366
<b>Std Hollow Mtl Doors</b>								<b>50,146</b>			
	77.06	Labor hours									
<b>METAL DOORS</b>								<b>50,146</b>			
	77.06	Labor hours									
<b>0851.0000 METAL WINDOWS</b>											
<b>0851.1320 Aluminum Windows</b>											
n	4600	Windows, AL, comm grade, stk units, slng, std gls, 8'-0"x4'-0"	16.00	ea	Lab	6.00000	ea/cd	2.67	cd	1,046.59	2,791
					Mat			16.00	ea	332.150	5,314
<b>Aluminum Windows</b>								<b>8,105</b>			
	42.67	Labor hours									
<b>METAL WINDOWS</b>								<b>8,105</b>			
	42.67	Labor hours									
<b>0871.0000 DOOR HARDWARE</b>											
<b>0871.2035 Panic Device</b>											
n	0020	Door hardware, panic dvc, for rim locks, sgl door, outside key & pull	2.20	ea	Lab	5.00000	ea/cd	0.44	cd	406.73	179
					Mat			2.20	ea	531.440	1,169

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>0871.2035</b>	<b>Panic Device</b>							
n 3000	Door hardware, panic device, narrow stile, mortise bar, exit only		3.30 ea	Lab Mat	4.00000 ea/cd	0.83 cd 3.30 ea	406.73 559.910	336 1,848
	<b>Panic Device</b>							<b>3,531</b>
	10.12 Labor hours							
<b>0871.2040</b>	<b>Lockset</b>							
n 0400	Door hrdwr, lkst, std dty, cyl, w/sect trim, keyed, sgl cyl function		78.571 ea	Lab Mat	10.00000 ea/cd	7.86 cd 78.57 ea	406.73 101.543	3,196 7,978
	<b>Lockset</b>							<b>11,174</b>
	62.86 Labor hours							
<b>0871.2065</b>	<b>Threshold</b>							
n 0011	Thresholds, aluminum, 3' long door saddles		2.20 lf	Lab Mat	48.00000 lf/cd	0.05 cd 2.20 lf	406.73 6.311	19 14
n 0011	Thresholds, aluminum, 3' long door saddles		3.30 lf	Lab Mat	48.00000 lf/cd	0.07 cd 3.30 lf	406.73 6.311	28 21
	<b>Threshold</b>							<b>81</b>
	0.92 Labor hours							
<b>0871.2090</b>	<b>Hinges</b>							
n 0012	Door hardware, hngs, full mrts, avg freq, stl base, USP, 4.5"x4.5"		117.86 pr	Mat		117.86 pr	24.674	2,908
n 1430	Door hrdwr, hinges, fl mrts, H freq, brs base, US10, 4.5"x4.5"		4.95 pr	Mat		4.95 pr	66.905	331
	<b>Hinges</b>							<b>3,239</b>
	<b>DOOR HARDWARE</b>							<b>18,026</b>
	73.893 Labor hours							
<b>0881.0000</b>	<b>GLASS GLAZING</b>							
<b>0881.1010</b>	<b>Float Glass</b>							
n 0800	Float Glass, tempered, clear, 1/4" thick		46.20 sf	Lab Mat	120.00000 sf/cd	0.39 cd 46.20 sf	763.102 7.924	294 366
	<b>Float Glass</b>							<b>660</b>
	6.16 Labor hours							
	<b>GLASS GLAZING</b>							<b>660</b>
	6.16 Labor hours							
<b>0922.0000</b>	<b>SPPT FOR PLAST/GYP BOARD</b>							
<b>0922.1613</b>	<b>Metal Studs &amp; Track</b>							
n 2250	Mtl stud prtn, non-ld brng, galv, 10' H, 2.5"W, 25 ga, 24"OC, inc trk		7,857.14 sf	Lab Mat	750.00000 sf/cd	10.48 cd 7,857.14 sf	406.73 0.22	4,261 1,715
	<b>Metal Studs &amp; Track</b>							<b>5,976</b>
	83.81 Labor hours							

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>SPPT FOR PLAST/GYP BOARD</b>								<b>5,976</b>
	83.81 Labor hours							
<b>0929.0000 GYPSUM BOARD</b>								
<b>0929.1020 Taping And Finishing</b>								
n 3600	Gypsum Board, for taping & finishing joints, add		15,714.28 sf	Lab Mat	2,000.00000 sf/cd	7.86 cd 15,714.28 sf	813.452 0.05	6,391 746
	<b>Taping And Finishing</b>							<b>7,137</b>
	125.714 Labor hours							
<b>0929.1030 Gypsum Board</b>								
n 2100	Gypsum wallboard, on walls, fire resistant, .625"thk, finish exc.		15,714.28 sf	Lab Mat	2,000.00000 sf/cd	7.86 cd 15,714.28 sf	813.452 0.28	6,391 4,325
n 5600	Gypsum wallboard, sound deadening board, 1/4" thick		15,714.28 sf	Lab Mat	1,800.00000 sf/cd	8.73 cd 15,714.28 sf	813.452 0.370	7,102 5,816
	<b>Gypsum Board</b>							<b>23,634</b>
	265.40 Labor hours							
<b>GYPSUM BOARD</b>								<b>30,771</b>
	391.11 Labor hours							
<b>0951.0000 ACOUSTICAL CEILINGS</b>								
<b>0951.5310 Ceiling Tile</b>								
n 0900	Ceiling Tiles, mineral fiber, fire rated, plain faced, 3/4" thick		11,000.00 sf	Lab Mat	300.00000 sf/cd	36.67 cd 11,000.00 sf	406.73 1.281	14,913 14,093
	<b>Ceiling Tile</b>							<b>29,006</b>
	293.333 Labor hours							
<b>ACOUSTICAL CEILINGS</b>								<b>29,006</b>
	293.333 Labor hours							
<b>0953.0000 ACOUSTICAL CEILSUSPENSION</b>								
<b>0953.2330 Ceiling Suspensn Systems</b>								
n 0400	Concealed Z bar susp. System, 12" module		11,000.00 sf	Lab Mat	520.00000 sf/cd	21.15 cd 11,000.00 sf	406.73 0.740	8,604 8,142
n 0600	Carrier channels, 1 1/2", for 4' O.C., add		11,000.00 sf	Lab Mat	470.00000 sf/cd	23.40 cd 11,000.00 sf	406.73 0.104	9,519 1,148
n 1000	Ceiling Suspension System, metal pan, snap-on 1' x 1'		693.00 sf	Lab Mat	420.00000 sf/cd	1.65 cd 693.00 sf	406.73 3.141	671 2,177
	<b>Ceiling Suspensn Systems</b>							<b>30,262</b>
	369.665 Labor hours							
<b>ACOUSTICAL CEILSUSPENSION</b>								<b>30,262</b>
	369.665 Labor hours							

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>0965.0000 RESILIENT FLOORING</b>								
0965.1910	Resilient Tile Flooring							
n 7400	Resilient Flooring, vinyl composition tile, solid, 12" x 12" x 1/8"		5,500.00 sf	Lab Mat	500.00000 sf/cd	11.00 cd 5,500.00 sf	362.723 0.902	3,990 4,959
	Resilient Tile Flooring							8,948
	88.00 Labor hours							
<b>RESILIENT FLOORING</b>								<b>8,948</b>
	88.00 Labor hours							
<b>0968.0000 CARPETING</b>								
0968.1010	Cmmrcl Grade Carpet Pad							
n 9400	Carpet,for tackless,stretched inst,bnded urethane pad,min		610.50 sy	Lab Mat	150.00000 sy/cd	4.07 cd 610.50 sy	362.723 4.70	1,476 2,868
	Cmmrcl Grade Carpet Pad							4,344
	32.56 Labor hours							
0968.1610	Sheet Carpet							
n 3340	Carpet, commercial grds, direct cmnt, nylon, plush, 60 oz, hvy traffic		610.50 sy	Lab Mat	70.00000 sy/cd	8.72 cd 610.50 sy	362.723 73.55	3,163 44,901
	Sheet Carpet							48,064
	69.771 Labor hours							
<b>CARPETING</b>								<b>52,408</b>
	102.331 Labor hours							
<b>0991.0000 PAINTING</b>								
0991.1320	Painting							
n 1200	Paints & Coatings, ext., door & frame, 1 side, flush, 1 coat, 3' x 7'		3.30 ea	Lab Mat	17.00000 ea/cd	0.19 cd 3.30 ea	344.21 1.841	67 6
n 1200	Paints & Coatings, ext., door & frame, 1 side, flush, 1 coat, 3' x 7'		78.571 ea	Lab Mat	17.00000 ea/cd	4.62 cd 78.57 ea	344.21 1.841	1,591 145
n 4000	Paints & Coatings, int., walls & ceilings, roller work, primer+2 coats		15,714.28 sf	Lab Mat	760.00000 sf/cd	20.68 cd 15,714.28 sf	344.21 0.180	7,117 2,833
	Painting							11,759
	203.941 Labor hours							
<b>PAINTING</b>								<b>11,759</b>
	203.941 Labor hours							
<b>0996.0000 HI-PERFORMANCE COATINGS</b>								

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
0996.5620	<b>Wall Coatings</b>							
n 1500	Wall Coatings, exposed aggregate, sprayed on, 1/8" aggregate, min		4,032.00 sf	Lab Mat	295.00000 sf/cd	13.67 cd 4,032.00 sf	344.21 0.531	4,705 2,143
	<b>Wall Coatings</b>							<b>6,847</b>
	109.342 Labor hours							
<b>HI-PERFORMANCE COATINGS</b>								<b>6,847</b>
	109.342 Labor hours							
<hr/>								
<b>1011.0000</b>	<b>VISUAL DISPLAY BOARDS</b>							
1011.1313	<b>Fixed Chalkboards</b>							
n 5300	Chalkboards, porcelain enam stl, wall hung, wood frm & chlktrgh, 4'x8'		1.364 ea	Lab Mat	13.00000 ea/cd	0.10 cd 1.36 ea	813.452 336.90	85 460
	<b>Fixed Chalkboards</b>							<b>545</b>
	1.68 Labor hours							
1011.2310	<b>Fixed Tackboards</b>							
n 0020	Bulletin Boards, cork sheets, unbacked, no frame, .25"thk, excl frame		27.50 sf	Lab Mat	290.00000 sf/cd	0.09 cd 27.50 sf	813.452 1.964	77 54
	<b>Fixed Tackboards</b>							<b>131</b>
	1.52 Labor hours							
<b>VISUAL DISPLAY BOARDS</b>								<b>676</b>
	3.20 Labor hours							
<hr/>								
<b>1013.0000</b>	<b>DIRECTORIES</b>							
1013.1010	<b>Directory Boards</b>							
n 0900	Directory boards, outdoor, weatherproof, black plastic, 36" x 24"		1.10 ea	Lab Mat	2.00000 ea/cd	0.55 cd 1.10 ea	813.452 721.240	447 793
	<b>Directory Boards</b>							<b>1,241</b>
	8.80 Labor hours							
<b>DIRECTORIES</b>								<b>1,241</b>
	8.80 Labor hours							
<hr/>								
<b>1021.0000</b>	<b>COMPARTMENTS/CUBICLES</b>							
1021.1313	<b>Metal Toilet Compartments</b>							
n 0500	Partitions, toilet, cubicles, ceiling hung, stainless steel		11.00 ea	Lab Mat	4.00000 ea/cd	2.75 cd 11.00 ea	813.452 944.26	2,237 10,387

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
	<b>Metal Toilet Compartments</b>							<u>12,624</u>
	44.00 Labor hours							
	<b>COMPARTMENTS/CUBICLES</b>							<u>12,624</u>
	44.00 Labor hours							
<b>1055.0000</b>	<b>POSTAL SPECIALTIES</b>							
<b>1055.2310</b>	<b>Commercial Mail Boxes</b>							
n 0600	Mailboxes, horiz, key lock, alum, front ldng, quad, 10"h x 12"w x 15"D		1.10 ea	Lab Mat	20.00000 ea/cd	0.06 cd 1.10 ea	406.73 103.441	22 114
	<b>Commercial Mail Boxes</b>							<u>136</u>
	0.44 Labor hours							
	<b>POSTAL SPECIALTIES</b>							<u>136</u>
	0.44 Labor hours							
<b>1057.0000</b>	<b>WARDROBE&amp;CLOSET SPECIALTS</b>							
<b>1057.1310</b>	<b>Coat Racks &amp; Wardrobes</b>							
n 2000	Coat rck&wrb,wl mtd rcks,16 Ga FR,22 Ga st shel,12"x15"x50",12 hgrs		7.854 ea	Lab Mat	32.00000 ea/cd	0.25 cd 7.85 ea	406.73 171.77	100 1,349
	<b>Coat Racks &amp; Wardrobes</b>							<u>1,449</u>
	1.964 Labor hours							
	<b>WARDROBE&amp;CLOSET SPECIALTS</b>							<u>1,449</u>
	1.964 Labor hours							
<b>1141.0000</b>	<b>FOOD STORAGE EQUIPMENT</b>							
<b>1141.1310</b>	<b>Refrigerated Food Cases</b>							
n 0600	Refrigerated food cases, frozen food case, chest type, 12' long		1.10 ea	Lab Mat	3.29995 ea/cd	0.33 cd 1.10 ea	837.12 7,568.28	279 8,325
	<b>Refrigerated Food Cases</b>							<u>8,604</u>
	5.333 Labor hours							
<b>1141.1320</b>	<b>Refrigerated Food Storage</b>							
n 2350	Cooler, commercial kitchen equipment, reach-in, beverage, 6' long		1.10 ea	Lab Mat	6.00000 ea/cd	0.18 cd 1.10 ea	826.754 3,297.78	152 3,628
	<b>Refrigerated Food Storage</b>							<u>3,779</u>
	2.933 Labor hours							
	<b>FOOD STORAGE EQUIPMENT</b>							<u>12,383</u>
	8.27 Labor hours							

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>1144.0000 FOOD COOKING EQUIPMENT</b>								
<b>1144.1310 Cooking Equipment</b>								
n 7150	Range, comm ktchn eqp, rstrnt, 6 bmrs & 2 std ovens, 24"griddle, 60"W		1.10 ea	Lab Mat	6.00000 ea/cd	0.18 cd 1.10 ea	826.754 4,056.98	152 4,463
	<b>Cooking Equipment</b>							<b>4,614</b>
	2.933 Labor hours							
<b>FOOD COOKING EQUIPMENT</b>								<b>4,614</b>
	2.933 Labor hours							
<b>2105.0000 COMM WORK RES FIRE SUPPR</b>								
<b>2105.2350 Gen-Duty Vlv Water Fire S</b>								
n 6260	Sprnklr Sys Vlv Alarm, 3", rtrd chmbr, trim, gas/alarm line strnr		0.83 ea	Lab Mat	3.00000 ea/cd	0.28 cd 0.83 ea	816.391 1,399.78	225 1,155
n 6520	Sprnklr Sys Comp, vlvs, chk, swing, CI brs ftgs, auto ball drip, 4"		0.83 ea	Lab Mat	3.00000 ea/cd	0.28 cd 0.83 ea	816.391 280.904	225 232
n 8840	Sprinkler System Components, vlvs, flow ctrl, 4"size, incl trim & ga		0.83 ea	Lab Mat	2.79995 ea/cd	0.29 cd 0.83 ea	1,728.41 4,934.800	509 4,071
	<b>Gen-Duty Vlv Water Fire S</b>							<b>6,416</b>
	18.23 Labor hours							
<b>COMM WORK RES FIRE SUPPR</b>								<b>6,416</b>
	18.23 Labor hours							
<b>2111.0000 FIRE SUPPR WATER SERV PPP</b>								
<b>2111.1950 Fire-Department Conn</b>								
n 7160	Standpipe conns, wall, w/plugs & chains, sgl, fish, brs, 2.5"x2.5"		0.83 ea	Lab Mat	5.00000 ea/cd	0.17 cd 0.83 ea	816.391 136.66	135 113
	<b>Fire-Department Conn</b>							<b>247</b>
	2.64 Labor hours							
<b>FIRE SUPPR WATER SERV PPP</b>								<b>247</b>
	2.64 Labor hours							
<b>2113.0000 SPRINKLER SYSTEMS</b>								
<b>2113.1350 Wet-Pipe Sprinkler System</b>								
n 1220	Sprinkler System Components, alarm, water motor, complete with gong		0.83 ea	Lab Mat	4.00000 ea/cd	0.21 cd 0.83 ea	453.652 351.130	94 290

Item	Description	Location	Takeoff Qty		W%	Conversion	Order Qty	Unit Price	Amount
2113.1350	<b>Wet-Pipe Sprinkler System</b>								
n 3720	Sprinkler Sys Cmpts, PUR SH, brs, 135-286 F, .5"NPT, .375"orf, no pp		46.201 ea	Lab Mat		16.00000 ea/cd	2.89 cd 46.20 ea	453.652 13.144	1,310 607
	<b>Wet-Pipe Sprinkler System</b>								<b>2,300</b>
	24.751 Labor hours								
<b>SPRINKLER SYSTEMS</b>									<b>2,300</b>
	24.751 Labor hours								
<b>2205.2300</b>	<b>GEN-DUTY VALVES PLUMBING</b>								
2205.2320	<b>Valves, Bronze</b>								
n 1110	Valves, bronze, angle, rising stem, threaded, 150 lb., 2"		0.83 ea	Lab Mat		11.00000 ea/cd	0.08 cd 0.83 ea	459.31 635.830	34 525
n 1910	Valves, brz, chk, swing, regrinding disc, thrd., class 150, 2.5"		0.83 ea	Lab Mat		15.00000 ea/cd	0.06 cd 0.83 ea	826.754 678.54	45 560
n 2980	Valves, bronze, gate, non-rising stem, soldered, 125 psi, 2"		3.46 ea	Lab Mat		11.00000 ea/cd	0.31 cd 3.46 ea	459.31 162.28	144 561
n 3450	Valves, bronze, gate, non-rising stem, threaded, class 150, 1"		0.83 ea	Lab Mat		19.00000 ea/cd	0.04 cd 0.83 ea	459.31 94.43	20 78
n 5650	Valves, brz, relief, pres. & Temp., self-closing, thrd., 1", ASME		1.73 ea	Lab Mat		24.00000 ea/cd	0.07 cd 1.73 ea	459.31 223.964	33 387
	<b>Valves, Bronze</b>								<b>2,389</b>
	4.920 Labor hours								
<b>GEN-DUTY VALVES PLUMBING</b>									<b>2,389</b>
	4.920 Labor hours								
<b>2211.0000</b>	<b>FACIL WATER DISTRIBUTION</b>								
2211.1323	<b>Pipe, Copper</b>								
n 2120	Pipe, cop, tubing, solder, .375"dia, L, incl cplg & clevis hgr 10' OC		17.31 lf	Lab Mat		84.00000 lf/cd	0.21 cd 17.31 lf	459.31 3.62	95 63
n 2140	Pipe, cop, tubing, solder, .5"dia, L, incl cplg & clevis hgr 10' OC		41.53 lf	Lab Mat		81.00000 lf/cd	0.51 cd 41.53 lf	459.31 4.024	235 167
n 2140	Pipe, cop, tubing, solder, .5"dia, L, incl cplg & clevis hgr 10' OC		51.91 lf	Lab Mat		81.00000 lf/cd	0.64 cd 51.91 lf	459.31 4.024	294 209
n 2140	Pipe, cop, tubing, solder, .5"dia, L, incl cplg & clevis hgr 10' OC		17.30 lf	Lab Mat		81.00000 lf/cd	0.21 cd 17.30 lf	459.31 4.024	98 70
n 2140	Pipe, cop, tubing, solder, .5"dia, L, incl cplg & clevis hgr 10' OC		17.30 lf	Lab Mat		81.00000 lf/cd	0.21 cd 17.30 lf	459.31 4.024	98 70
n 2180	Pipe, cop, tubing, solder, .75"dia, L, incl cplg & clevis hgr 10' OC		8.65 lf	Lab Mat		76.00000 lf/cd	0.11 cd 8.65 lf	459.31 6.17	52 53
n 2200	Pipe, cop, tubing, solder, 1"dia, type L, incl cplg & clvs hgr 10' OC		12.11 lf	Lab Mat		68.00000 lf/cd	0.18 cd 12.11 lf	459.31 9.110	82 110
n 2260	Pipe, cop, tubing, solder, 2"dia, type L, incl cplg & clvs hgr 10' OC		51.90 lf	Lab Mat		42.00000 lf/cd	1.24 cd 51.90 lf	459.31 26.10	568 1,354

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>2211.1323</b>	<b>Pipe, Copper</b>							
n 4100	Pipe, cop, tubing, solder, 1.25"dia, DWV, incl cplg & clvs hgr 10'OC		20.764 lf	Lab Mat	60.00000 lf/cd	0.35 cd 20.76 lf	459.31 11.530	159 239
n 4100	Pipe, cop, tubing, solder, 1.25"dia, DWV, incl cplg & clvs hgr 10'OC		13.844 lf	Lab Mat	60.00000 lf/cd	0.23 cd 13.84 lf	459.31 11.530	106 160
n 4120	Pipe, cop, tubing, solder, 1.5"dia, DWV, incl cplg & clvs hgr 10'OC		13.84 lf	Lab Mat	54.00000 lf/cd	0.26 cd 13.84 lf	459.31 14.425	118 200
n 4140	Pipe, cop, tubing, solder, 2"dia, DWV, incl cplg & clevis hgr 10' OC		5.19 lf	Lab Mat	44.00000 lf/cd	0.12 cd 5.19 lf	459.31 19.455	54 101
n 4140	Pipe, cop, tubing, solder, 2"dia, DWV, incl cplg & clevis hgr 10' OC		6.92 lf	Lab Mat	44.00000 lf/cd	0.16 cd 6.92 lf	459.31 19.455	72 135
n 4160	Pipe, cop, tubing, solder, 3"dia, DWV, incl cplg & clevis hgr 10' OC		10.38 lf	Lab Mat	58.00000 lf/cd	0.18 cd 10.38 lf	826.754 37.49	148 389
	<b>Pipe, Copper</b>							<b>5,499</b>
	38.244 Labor hours							
<b>2211.1325</b>	<b>Pipe, Copper, Fittings</b>							
n 0090	Elbow, 90 Deg., copper, wrought, copper x copper, 3/8"		3.461 ea	Lab Mat	22.00000 ea/cd	0.16 cd 3.46 ea	459.31 8.07	72 28
n 0100	Elbow, 90 Deg., copper, wrought, copper x copper, 1/2"		13.842 ea	Lab Mat	20.00000 ea/cd	0.69 cd 13.84 ea	459.31 2.69	318 37
n 0100	Elbow, 90 Deg., copper, wrought, copper x copper, 1/2"		10.382 ea	Lab Mat	20.00000 ea/cd	0.52 cd 10.38 ea	459.31 2.69	238 28
n 0100	Elbow, 90 Deg., copper, wrought, copper x copper, 1/2"		3.46 ea	Lab Mat	20.00000 ea/cd	0.17 cd 3.46 ea	459.31 2.69	79 9
n 0100	Elbow, 90 Deg., copper, wrought, copper x copper, 1/2"		3.46 ea	Lab Mat	20.00000 ea/cd	0.17 cd 3.46 ea	459.31 2.69	79 9
n 0120	Elbow, 90 Deg., copper, wrought, copper x copper, 3/4"		1.73 ea	Lab Mat	19.00000 ea/cd	0.09 cd 1.73 ea	459.31 6.03	42 10
n 0130	Elbow, 90 Deg., copper, wrought, copper x copper, 1"		1.73 ea	Lab Mat	16.00000 ea/cd	0.11 cd 1.73 ea	459.31 14.852	50 26
n 0160	Elbow, 90 Deg., copper, wrought, copper x copper, 2"		6.92 ea	Lab Mat	11.00000 ea/cd	0.63 cd 6.92 ea	459.31 63.583	289 440
n 0470	Tee, copper, wrought, copper x copper, 3/8"		3.461 ea	Lab Mat	14.00000 ea/cd	0.25 cd 3.46 ea	459.31 13.62	114 47
n 0480	Tee, copper, wrought, copper x copper, 1/2"		6.921 ea	Lab Mat	13.00000 ea/cd	0.53 cd 6.92 ea	459.31 4.593	245 32
n 0480	Tee, copper, wrought, copper x copper, 1/2"		10.382 ea	Lab Mat	13.00000 ea/cd	0.80 cd 10.38 ea	459.31 4.593	367 48
n 0480	Tee, copper, wrought, copper x copper, 1/2"		3.46 ea	Lab Mat	13.00000 ea/cd	0.27 cd 3.46 ea	459.31 4.593	122 16
n 0480	Tee, copper, wrought, copper x copper, 1/2"		3.46 ea	Lab Mat	13.00000 ea/cd	0.27 cd 3.46 ea	459.31 4.593	122 16
n 0500	Tee, copper, wrought, copper x copper, 3/4"		1.73 ea	Lab Mat	12.00000 ea/cd	0.14 cd 1.73 ea	459.31 11.103	66 19
n 0540	Tee, copper, wrought, copper x copper, 2"		3.46 ea	Lab Mat	7.00000 ea/cd	0.49 cd 3.46 ea	459.31 112.931	227 391
n 0940	Union, copper, wrought, copper x copper, 2"		3.46 ea	Lab Mat	10.00000 ea/cd	0.35 cd 3.46 ea	459.31 268.57	159 929

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>2211.1325 Pipe, Copper, Fittings</b>								
n 1020	Adapter, copper, wrought, copper x male I.P.S., 1"		1.73 ea	Lab	15.00000 ea/cd	0.12 cd	459.31	53
				Mat		1.73 ea	24.20	42
n 2250	Tee, sanitary, copper, copper x copper, 1-1/4", DWV		5.191 ea	Lab	9.00000 ea/cd	0.58 cd	459.31	265
				Mat		5.19 ea	51.25	266
n 2250	Tee, sanitary, copper, copper x copper, 1-1/4", DWV		3.461 ea	Lab	9.00000 ea/cd	0.38 cd	459.31	177
				Mat		3.46 ea	51.25	177
n 2270	Tee, sanitary, copper, copper x copper, 1-1/2", DWV		1.73 ea	Lab	8.00000 ea/cd	0.22 cd	459.31	99
				Mat		1.73 ea	64.06	111
n 2310	Tee, sanitary, copper, copper x copper, 3", DWV		1.73 ea	Lab	7.00000 ea/cd	0.25 cd	826.754	204
				Mat		1.73 ea	303.680	525
								<b>6,594</b>
<b>Pipe, Copper, Fittings</b>								
59.40 Labor hours								
<b>2211.1344 Pipe, Steel</b>								
n 0580	Pipe, b-stl, thrd, 1"D, sch40, Spec A-53, incl cplg/clvs hgr, 10'OC		188.93 lf	Lab	53.00000 lf/cd	3.56 cd	459.31	1,637
				Mat		188.93 lf	4.84	914
n 0590	Pipe, b-stl, thrd, 1.25"D, sch40, Spec A-53, inccplg/clvs hgr, 10' OC		94.052 lf	Lab	89.00000 lf/cd	1.06 cd	826.754	874
				Mat		94.05 lf	5.98	562
n 0600	Pipe, b-stl, thrd, 1.5"D, sch40, Spec A-53, incl cplg/clvs hgr, 10' OC		188.93 lf	Lab	80.00000 lf/cd	2.36 cd	826.754	1,952
				Mat		188.93 lf	9.02	1,703
n 0610	Pipe, b-stl, thrd, 2"D, sch40, Spec A-53, incl cplg/clvs hgr, 10'OC		162.53 lf	Lab	64.00000 lf/cd	2.54 cd	826.754	2,100
				Mat		162.53 lf	9.300	1,512
n 0620	Pipe, b-stl, thrd, 2.5"D, sch40, Spec A-53, incl cplg/clvs hgr, 10' OC		51.564 lf	Lab	50.00000 lf/cd	1.03 cd	826.754	853
				Mat		51.56 lf	14.52	749
n 1340	Pipe, stl, glv, thrd, 1.25", sch40, Spec A-53, cplg/clvs hgr, 10'OC		20.764 lf	Lab	89.00000 lf/cd	0.23 cd	826.754	193
				Mat		20.76 lf	8.07	167
n 1340	Pipe, stl, glv, thrd, 1.25", sch40, Spec A-53, cplg/clvs hgr, 10'OC		6.92 lf	Lab	89.00000 lf/cd	0.08 cd	826.754	64
				Mat		6.92 lf	8.07	56
n 1350	Pipe, stl, glv, thrd, 1.5", sch40, Spec A-53, cplg/clvs hgr, 10'OC		8.65 lf	Lab	80.00000 lf/cd	0.11 cd	826.754	89
				Mat		8.65 lf	9.443	82
n 1360	Pipe, stl, glv, thrd, 2", sch40, Spec A-53, cplg/clvs hgr, 10'OC		27.684 lf	Lab	64.00000 lf/cd	0.43 cd	826.754	358
				Mat		27.68 lf	12.622	349
n 2110	Pipe, b-stl, wld, 4"D, sch40, Spec A-53, yoke/roll hgrs, 10'OC		8.25 lf	Lab	37.00000 lf/cd	0.22 cd	826.754	184
				Mat		8.25 lf	22.302	184
				Eqp	37.00000 lf/cd	0.22 cd	52.840	12
								<b>14,595</b>
<b>Pipe, Steel</b>								
157.54 Labor hours								
1.784 Equipment hours								
<b>2211.1345 Pipe, Steel, Fitting Thrd</b>								
n 5100	Elbow, 90 Deg., stl, MI, blk, straight, thrd., 150 lb., 1"		8.25 ea	Lab	13.00000 ea/cd	0.63 cd	459.31	291
				Mat		8.25 ea	5.741	47
n 5130	Elbow, 90 Deg., stl, MI, blk, straight, thrd., 150 lb., 2"		1.65 ea	Lab	18.00000 ea/cd	0.09 cd	826.754	76
				Mat		1.65 ea	21.353	35
n 5510	Tee, steel, malleable iron, black, straight, threaded, 150 lb., 1"		6.60 ea	Lab	8.00000 ea/cd	0.83 cd	459.31	379
				Mat		6.60 ea	9.02	60
n 5520	Tee, steel, malleable iron, black, straight, threaded, 150 lb., 1-1/4"		6.60 ea	Lab	14.00000 ea/cd	0.47 cd	826.754	390
				Mat		6.60 ea	14.615	96

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>2211.1345</b>	<b>Pipe, Steel, Fitting Thrd</b>							
n 5530	Tee, steel, malleable iron, black, straight, threaded, 150 lb., 1-1/2"		13.20 ea	Lab	13.00000 ea/cd	1.02 cd	826.754	839
				Mat		13.20 ea	18.13	239
n 5540	Tee, steel, malleable iron, black, straight, threaded, 150 lb., 2"		13.20 ea	Lab	11.00000 ea/cd	1.20 cd	826.754	992
				Mat		13.20 ea	30.843	407
n 5550	Tee, steel, malleable iron, black, straight, threaded, 150 lb., 2-1/2"		4.95 ea	Lab	9.00000 ea/cd	0.55 cd	826.754	455
				Mat		4.95 ea	66.905	331
n 5580	Tee, steel, malleable iron, black, straight, threaded, 150 lb., 4"		1.65 ea	Lab	4.00000 ea/cd	0.41 cd	826.754	341
				Mat		1.65 ea	237.250	391
	<b>Pipe, Steel, Fitting Thrd</b>							<b>5,371</b>
	71.533 Labor hours							

**FACIL WATER DISTRIBUTION**326.72 Labor hours  
1.784 Equipment hours**32,058****2213.0000 FACIL SANITARY SEWERAGE**

<b>2213.1620</b>	<b>Pipe, Cast Iron</b>							
n 2140	Pipe, CI soil, 1 hub, 3"D, ld/oakum jnts 10'OC, hgrs 5'OC		34.60 lf	Lab	60.00000 lf/cd	0.58 cd	826.754	477
				Mat		34.60 lf	12.15	420
n 2160	Pipe, CI soil, 1 hub, 4"D, ld/oakum jnts 10'OC, hgrs 5'OC		34.61 lf	Lab	55.00000 lf/cd	0.63 cd	826.754	520
				Mat		34.61 lf	16.04	555
n 4140	Pipe, CI soil, no hub, 3"dia., incl. cplgs 10' O.C., hgrs 5' O.C.		6.92 lf	Lab	64.00000 lf/cd	0.11 cd	826.754	89
				Mat		6.92 lf	12.15	84
n 4160	Pipe, CI soil, no hub, 4"dia., incl. cplgs 10' O.C., hgrs 5' O.C.		27.684 lf	Lab	58.00000 lf/cd	0.48 cd	826.754	395
				Mat		27.68 lf	15.85	439
	<b>Pipe, Cast Iron</b>							<b>2,979</b>
	28.661 Labor hours							

<b>2213.1630</b>	<b>Pipe, Cast Iron, Fittings</b>							
n 0120	.25 Bend, CI soil, hub & spigot, srvc wght, 3", incl lead & oakum jnts		3.46 ea	Lab	14.00000 ea/cd	0.25 cd	826.754	204
				Mat		3.46 ea	23.251	80
n 0140	.25 Bend, CI soil, hub & spigot, srvc wght, 4", incl lead & oakum jnts		3.461 ea	Lab	13.00000 ea/cd	0.27 cd	826.754	220
				Mat		3.46 ea	36.062	125
n 0270	C1st bend, CI soil, hub/spgt, 4"D, 6"x16", ld/oakum jnts/1"x4"ring		6.921 ea	Lab	13.00000 ea/cd	0.53 cd	826.754	440
				Mat		6.92 ea	95.85	663
n 2510	Y, CI soil, hub & spigot, service weight, 3", incl. lead & oakum jnts		1.73 ea	Lab	9.00000 ea/cd	0.19 cd	826.754	159
				Mat		1.73 ea	40.81	71
n 2520	Y, CI soil, hub & spigot, service weight, 4", incl. lead & oakum jnts		1.73 ea	Lab	8.00000 ea/cd	0.22 cd	826.754	179
				Mat		1.73 ea	54.57	94
n 7320	Comb Y1/8 bend, CI soil, no hub, 3", 1 cplg/jnt,grv gskt, no cplg/lbr		1.73 ea	Mat		1.73 ea	22.302	39
n 7400	Comb Y1/8 bend, CI soil, no hub, 4", 1 cplg/jnt,grv gskt, no cplg/lbr		6.921 ea	Mat		6.92 ea	42.71	296
n 8080	Coupling, standard (by CISPI mfrs.), cast iron soil, no hub, 3"		5.19 ea	Lab	38.00000 ea/cd	0.14 cd	826.754	113
				Mat		5.19 ea	14.76	77
n 8120	Coupling, standard (by CISPI mfrs.), cast iron soil, no hub, 4"		20.763 ea	Lab	33.00000 ea/cd	0.63 cd	826.754	520
				Mat		20.76 ea	17.414	362

Item	Description	Location	Takeoff Qty		W%	Conversion	Order Qty	Unit Price	Amount
	<b>Pipe, Cast Iron, Fittings</b>								<b>3,641</b>
	35.52 Labor hours								
<b>2213.1660</b>	<b>Traps</b>								
n 5200	Traps, copper, P trap, standard pattern, 1-1/4" pipe size		5.191 ea	Lab		18.00000 ea/cd	0.29 cd	459.31	132
				Mat			5.19 ea	178.412	926
n 5200	Traps, copper, P trap, standard pattern, 1-1/4" pipe size		3.461 ea	Lab		18.00000 ea/cd	0.19 cd	459.31	88
				Mat			3.46 ea	178.412	617
n 5240	Traps, copper, P trap, standard pattern, 1-1/2" pipe size		1.73 ea	Lab		17.00000 ea/cd	0.10 cd	459.31	47
				Mat			1.73 ea	172.72	299
n 5260	Traps, copper, P trap, standard pattern, 2" pipe size		1.73 ea	Lab		15.00000 ea/cd	0.12 cd	459.31	53
				Mat			1.73 ea	266.67	461
n 5280	Traps, copper, P trap, standard pattern, 3" pipe size		1.73 ea	Lab		11.00000 ea/cd	0.16 cd	459.31	72
				Mat			1.73 ea	640.58	1,108
	<b>Traps</b>								<b>3,805</b>
	6.840 Labor hours								
<b>FACIL SANITARY SEWERAGE</b>									<b>10,425</b>
	71.021 Labor hours								
<b>2214.0000</b>	<b>FACIL STORM DRAINAGE</b>								
<b>2214.2613</b>	<b>Roof Drains</b>								
n 3890	Drain, roof, flat metal deck, CI body, 12"CI dome, 3"pipe		1.73 ea	Lab		14.00000 ea/cd	0.12 cd	826.754	102
				Mat			1.73 ea	346.39	599
n 3900	Drain, roof, flat metal deck, CI body, 12"CI dome, 4"pipe		1.73 ea	Lab		13.00000 ea/cd	0.13 cd	826.754	110
				Mat			1.73 ea	346.39	599
	<b>Roof Drains</b>								<b>1,411</b>
	4.11 Labor hours								
<b>FACIL STORM DRAINAGE</b>									<b>1,411</b>
	4.11 Labor hours								
<b>2233.0000</b>	<b>ELECTRIC WATER HEATERS</b>								
<b>2233.3310</b>	<b>Commercial Elec Wtr Htr</b>								
n 4440	Wtr Htr Comm, elec, 100 Deg. rise, 180 kW, 738 GPH, 480 V, 350 gal		1.73 ea	Lab		1.10000 ea/cd	1.57 cd	826.754	1,300
				Mat			1.73 ea	30,083.300	52,044
	<b>Commercial Elec Wtr Htr</b>								<b>53,344</b>
	25.164 Labor hours								
<b>ELECTRIC WATER HEATERS</b>									<b>53,344</b>
	25.164 Labor hours								
<b>2241.0000</b>	<b>RES PLUMBING FIXTURES</b>								
<b>2241.1340</b>	<b>Water Closets</b>								
n 1100	Water closet, tank,v-china, flr, CC, 2pc, 1.6G, seat, sup pp stop		6.921 ea	Lab		5.30000 ea/cd	1.31 cd	826.754	1,080
				Mat			6.92 ea	218.270	1,511

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>Water Closets</b>								<u>2,590</u>
	20.894	Labor hours						
<b>2241.1610</b>	<b>Lavatories</b>							
n 0720	Lavatory, vanity top, porcelain enamel on CI, wht, md, 19", incl trim		5.191 ea	Lab Mat	6.40000 ea/cd	0.81 cd 5.19 ea	826.754 225.862	671 1,172
<b>Lavatories</b>								<u>1,843</u>
	12.98	Labor hours						
<b>2241.1630</b>	<b>Sinks</b>							
n 2200	Sink, kchn, cntr tp, prcln enml on CI, dbl bwl, 32"x21", incl fct/dm		1.73 ea	Lab Mat	4.80000 ea/cd	0.36 cd 1.73 ea	826.754 294.190	298 509
<b>Sinks</b>								<u>807</u>
	5.77	Labor hours						
<b>2241.3910</b>	<b>Faucets/Fittings</b>							
n 6300	Faucets/ftgs, stop & waste vlvs, brz, straightway, soldered, .375"		3.461 ea	Lab Mat	24.00000 ea/cd	0.14 cd 3.46 ea	459.31 10.771	66 37
n 8300	Faucets/ftgs, water supply stops, polished chrome plt, angle, .5"		10.382 ea	Lab Mat	22.00000 ea/cd	0.47 cd 10.38 ea	459.31 9.40	217 98
n 8300	Faucets/ftgs, water supply stops, polished chrome plt, angle, .5"		3.46 ea	Lab Mat	22.00000 ea/cd	0.16 cd 3.46 ea	459.31 9.40	72 33
n 8300	Faucets/ftgs, water supply stops, polished chrome plt, angle, .5"		3.46 ea	Lab Mat	22.00000 ea/cd	0.16 cd 3.46 ea	459.31 9.40	72 33
<b>Faucets/Fittings</b>								<u>627</u>
	7.45	Labor hours						
<b>RES PLUMBING FIXTURES</b>								<u>5,868</u>
	47.084	Labor hours						
<b>2242.0000</b>	<b>COMM PLUMBING FIXTURES</b>							
<b>2242.1330</b>	<b>Urinals</b>							
n 5000	Urinal, stall type, vitreous china, with self-closing valve		1.73 ea	Lab Mat	2.50000 ea/cd	0.69 cd 1.73 ea	826.754 645.320	572 1,116
<b>Urinals</b>								<u>1,689</u>
	11.072	Labor hours						
<b>2242.1640</b>	<b>Service Sinks</b>							
n 7000	Sink, srvc, wall, prcln enml on CI, roll rim, 22"x18", incl fct & drn		1.73 ea	Lab Mat	4.00000 ea/cd	0.43 cd 1.73 ea	826.754 697.52	358 1,207
<b>Service Sinks</b>								<u>1,564</u>
	6.92	Labor hours						
<b>2242.3930</b>	<b>Carriers/Supports</b>							
n 5400	Carriers/supports, sink, wall mounted, w/ exposed arms, sgl hvy fxt		1.73 ea	Lab Mat	5.00000 ea/cd	0.35 cd 1.73 ea	459.31 374.86	159 649

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
	<b>Carriers/Supports</b>							807
	2.77 Labor hours							
<b>COMM PLUMBING FIXTURES</b>								<b>4,060</b>
	20.76 Labor hours							
<b>2247.0000</b>	<b>DRINKING FOUNTAIN/WTR CLR</b>							
<b>2247.1610</b>	<b>Electric Water Coolers</b>							
n 5040	Water cooler, floor mounted, flush-to-wall, dual height, 14.3 GPH		3.461 ea		2.00000 ea/cd	1.73 cd 3.46 ea	459.31 1,091.350	795 3,777
	<b>Electric Water Coolers</b>							<b>4,572</b>
	13.844 Labor hours							
<b>DRINKING FOUNTAIN/WTR CLR</b>								<b>4,572</b>
	13.844 Labor hours							
<b>2305.2300</b>	<b>GEN DUTY VALVES HVAC</b>							
<b>2305.2330</b>	<b>Valves, Iron Body</b>							
n 3680	Valves, iron body, gate, OS&Y, flanged, 125 lb., 4"		0.83 ea		3.00000 ea/cd	0.28 cd 0.83 ea	826.754 654.810	227 540
	<b>Valves, Iron Body</b>							<b>768</b>
	4.40 Labor hours							
<b>GEN DUTY VALVES HVAC</b>								<b>768</b>
	4.40 Labor hours							
<b>2338.0000</b>	<b>VENTILATION HOODS</b>							
<b>2338.1310</b>	<b>Hood&amp;Ventilatn Equipment</b>							
n 7950	Hood fire protection system, commercial kitchen equipment, min		1.10 ea		3.00000 ea/cd	0.37 cd 1.10 ea	826.754 4,958.53	303 5,454
	<b>Hood&amp;Ventilatn Equipment</b>							<b>5,758</b>
	5.87 Labor hours							
<b>VENTILATION HOODS</b>								<b>5,758</b>
	5.87 Labor hours							
<b>2374.0000</b>	<b>PKG OUTDOOR HVAC EQUIP</b>							
<b>2374.3310</b>	<b>Roof Top Air Conditioners</b>							
n 1200	Rooftop AC, sgl, elc, gas ht, 20TN, 360MBH, std ctl, crb/eco		2.11 ea		0.66698 ea/cd	3.16 cd 2.11 ea	1,771.74 21,827.000	5,600 46,011
n 9410	Rooftop air cndtnr, subassy, duct work perTN for rf top sgl zone units		42.174 tn		0.95999 tn/cd	43.93 cd 42.17 tn	824.88 249.59	36,238 10,526

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount	
<b>Roof Top Air Conditioners</b>								<b>98,375</b>	
	804.043	Labor hours							
<b>PKG OUTDOOR HVAC EQUIP</b>								<b>98,375</b>	
	804.043	Labor hours							
<b>2605.1900 LOW-VOLTAGE CONDUTORS</b>									
<b>2605.1990 Wire</b>									
n	0140	Wire, copper, stranded, 600 volt, #8, type THW, in raceway	11.00	clf	Lab Mat	8.00000 clf/cd	1.38 cd 11.00 clf	438.18 35.113	603 386
n	0300	Wire, copper, stranded, 600 volt, 3/0, type THW, in raceway	0.90	clf	Lab Mat	5.00000 clf/cd	0.18 cd 0.90 clf	876.36 370.110	158 333
n	0300	Wire, copper, stranded, 600 volt, 3/0, type THW, in raceway	2.00	clf	Lab Mat	5.00000 clf/cd	0.40 cd 2.00 clf	876.36 370.110	351 740
n	0920	Wire, copper, solid, 600 volt, #14, type THWN-THHN, in raceway	10.56	clf	Lab Mat	13.00000 clf/cd	0.81 cd 10.56 clf	438.18 7.83	356 83
n	0940	Wire, copper, solid, 600 volt, #12, type THWN-THHN, in raceway	37.202	clf	Lab Mat	11.00000 clf/cd	3.38 cd 37.20 clf	438.18 11.82	1,482 440
n	0940	Wire, copper, solid, 600 volt, #12, type THWN-THHN, in raceway	7.87	clf	Lab Mat	11.00000 clf/cd	0.72 cd 7.87 clf	438.18 11.82	313 93
n	0940	Wire, copper, solid, 600 volt, #12, type THWN-THHN, in raceway	22.00	clf	Lab Mat	11.00000 clf/cd	2.00 cd 22.00 clf	438.18 11.82	876 260
	<b>Wire</b>							<b>6,473</b>	
	75.554	Labor hours							
<b>LOW-VOLTAGE CONDUTORS</b>								<b>6,473</b>	
	75.554	Labor hours							
<b>2605.2600 GROUNDING &amp; BONDING</b>									
<b>2605.2680 Grounding</b>									
n	0050	Grounding rod, copper clad, 8' long, 3/4" diameter	1.00	ea	Lab Mat	5.30000 ea/cd	0.19 cd 1.00 ea	438.18 31.792	83 32
n	0250	Ground clamp, bronze, 3/4" diameter	1.00	ea	Lab Mat	32.00000 ea/cd	0.03 cd 1.00 ea	438.18 7.023	14 7
n	0280	Ground wire, ground bare armored, #4-1 conductor	0.20	clf	Lab Mat	1.60000 clf/cd	0.13 cd 0.20 clf	438.18 163.23	55 33
	<b>Grounding</b>							<b>223</b>	
	2.76	Labor hours							
<b>GROUNDING &amp; BONDING</b>								<b>223</b>	
	2.76	Labor hours							
<b>2605.3300 CONDUIT &amp; TUBING</b>									
<b>2605.3305 Conduit</b>									
n	1870	Rig galv stl cond, 2"dia, to 15' H, 2T, 2 elb/11/100 LF	50.00	lf	Lab Mat	45.00000 lf/cd	1.11 cd 50.00 lf	438.18 8.78	487 439

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount	
<b>2605.3305 Conduit</b>									
n 2500	Intrmdt mtl cond, .5"dia, to 15'H, 2T, 2 elb/11 bm clmp per 100LF		1,837.00	lf	Lab	18.37	cd	438.18	8,049
					Mat	1,837.00	lf	1.94	3,555
n 2500	Intrmdt mtl cond, .5"dia, to 15'H, 2T, 2 elb/11 bm clmp per 100LF		363.00	lf	Lab	3.63	cd	438.18	1,591
					Mat	363.00	lf	1.94	702
n 2500	Intrmdt mtl cond, .5"dia, to 15'H, 2T, 2 elb/11 bm clmp per 100LF		418.00	lf	Lab	4.18	cd	438.18	1,832
					Mat	418.00	lf	1.94	809
n 2500	Intrmdt mtl cond, .5"dia, to 15'H, 2T, 2 elb/11 bm clmp per 100LF		1,001.00	lf	Lab	10.01	cd	438.18	4,386
					Mat	1,001.00	lf	1.94	1,937
n 2500	Intrmdt mtl cond, .5"dia, to 15'H, 2T, 2 elb/11 bm clmp per 100LF		264.00	lf	Lab	2.64	cd	438.18	1,157
					Mat	264.00	lf	1.94	511
n 2630	Intrmdt mtl cond, 2"dia, to 15'H, 2T, 2 elb/11 bm clmps per 100LF		20.00	lf	Lab	0.40	cd	438.18	175
					Mat	20.00	lf	6.55	131
<b>Conduit</b>								<b>25,760</b>	
322.73 Labor hours									
<b>2605.3325 Cnd Fit For Rgd Glv Steel</b>									
n 2370	Conduit fittings for RGS, LB, LR or LL fittings & covers, 2" diameter		1.00	ea	Lab	0.20	cd	438.18	88
					Mat	1.00	ea	53.62	54
n 5380	Service entrance cap, 2" diameter		1.00	ea	Lab	0.18	cd	438.18	80
					Mat	1.00	ea	40.81	41
<b>Cnd Fit For Rgd Glv Steel</b>								<b>262</b>	
3.055 Labor hours									
<b>2605.3350 Outlet Boxes</b>									
n 0150	Outlet boxes, pressed steel, 4" square		27.50	ea	Lab	1.38	cd	438.18	603
					Mat	27.50	ea	2.26	62
n 0300	Outlet boxes, pressed steel, plaster rings, 4" square, concealed		27.50	ea	Lab	0.43	cd	438.18	188
					Mat	27.50	ea	2.693	74
n 0950	Outlet boxes, pressed steel, concrete, set flush, 4" deep		66.00	ea	Lab	3.30	cd	438.18	1,446
					Mat	66.00	ea	14.05	927
n 1000	Outlet boxes, pressed steel, concrete, plate, incl 3/8" stud		66.00	ea	Lab	0.83	cd	438.18	362
					Mat	66.00	ea	5.694	376
<b>Outlet Boxes</b>								<b>4,037</b>	
47.44 Labor hours									
<b>CONDUIT &amp; TUBING</b>								<b>30,059</b>	
373.221 Labor hours									

**2624.0000 SWITCHBOARDS/PANELBOARDS**

<b>2624.1630 Panelboards Comm App</b>											
n 2050	Pnlbrds, NQOD, 4W, 120/208 volts, 100 amp main, 24 circ, 20A 1P brkrs		0.50	ea	Lab	0.46998	ea/cd	1.06	cd	438.18	466
					Mat	0.50	ea	1,091.350	546		
n 2300	Pnlbrds, NQOD, 4W, 120/208 volts, 400 amp main, 42 circ, 20A 1P brkrs		0.50	ea	Lab	0.47999	ea/cd	1.04	cd	876.36	913
					Mat	0.50	ea	3,036.800	1,518		

Item	Description	Location	Takeoff Qty		W%	Conversion	Order Qty	Unit Price	Amount
	<b>Panelboards Comm App</b>								<u>3,443</u>
	25.18 Labor hours								
<b>SWITCHBOARDS/PANELBOARDS</b>									<b>3,443</b>
	25.18 Labor hours								
<b>2627.0000</b>	<b>LOW-VOLTAGE DISTRIB EQP</b>								
<b>2627.1310</b>	<b>Meter Centers &amp; Sockets</b>								
n 0300	Meter socket, single position, 4 terminal, 200 A		1.00 ea	Lab		1.89997 ea/cd	0.53 cd	438.18	231
				Mat			1.00 ea	79.72	80
	<b>Meter Centers &amp; Sockets</b>								<u>310</u>
	4.211 Labor hours								
<b>2627.2620</b>	<b>Wiring Devices Elements</b>								
n 2460	Duplex receptacle, grounded, 120 volt, 15 amp		27.50 ea	Lab		40.00000 ea/cd	0.69 cd	438.18	301
				Mat			27.50 ea	1.16	32
n 3110	Wall plate, brown plastic, 1 gang		27.50 ea	Lab		80.00000 ea/cd	0.34 cd	438.18	151
				Mat			27.50 ea	0.361	10
	<b>Wiring Devices Elements</b>								<u>494</u>
	8.25 Labor hours								
<b>LOW-VOLTAGE DISTRIB EQP</b>									<b>804</b>
	12.461 Labor hours								
<b>2628.0000</b>	<b>LOW-VOLTAGE CIRC PROT DEV</b>								
<b>2628.1310</b>	<b>Fuse Elements</b>								
n 0200	Fuses, cartridge, 250 V, 200 amp		3.00 ea	Lab		36.00000 ea/cd	0.08 cd	438.18	37
				Mat			3.00 ea	31.32	94
	<b>Fuse Elements</b>								<u>130</u>
	0.67 Labor hours								
<b>2628.1620</b>	<b>Safety Switches</b>								
n 3500	Safety switches, HD, 3 pole, nonfusable, 240V, 200A, NEMA 1		1.00 ea	Lab		1.29999 ea/cd	0.77 cd	438.18	337
				Mat			1.00 ea	711.750	712
	<b>Safety Switches</b>								<u>1,049</u>
	6.154 Labor hours								
<b>LOW-VOLTAGE CIRC PROT DEV</b>									<b>1,179</b>
	6.821 Labor hours								
<b>2632.0000</b>	<b>PKG GENERATOR ASSY</b>								
<b>2632.1316</b>	<b>Gas-Engine-Driven Gen Set</b>								
n 0400	Gnrtr set, gas, 3P 4W, 277/480V, 20kW, incl batt, chrgr, sw		0.11 ea	Lab		0.62998 ea/cd	0.17 cd	1,085.03	189
				Mat			0.11 ea	13,570.700	1,493
				Eqp		0.62998 ea/cd	0.17 cd	122.52	21

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
	<b>Gas-Engine-Driven Gen Set</b>							<b>1,704</b>
	3.492 Labor hours							
	0.70 Equipment hours							
	<b>PKG GENERATOR ASSY</b>							<b>1,704</b>
	3.492 Labor hours							
	0.70 Equipment hours							
<b>2651.0000</b>	<b>INTERIOR LIGHTING</b>							
<b>2651.1350</b>	<b>Interior Lighting Fixture</b>							
n 4700	Incand fxt, int, hi hat can, sq glass lens w trim, 200W, lmps, HW		66.00 ea	Lab Mat	6.69996 ea/cd	9.85 cd 66.00 ea	438.18 90.16	4,316 5,950
	<b>Interior Lighting Fixture</b>							<b>10,267</b>
	78.81 Labor hours							
	<b>INTERIOR LIGHTING</b>							<b>10,267</b>
	78.81 Labor hours							
<b>2831.0000</b>	<b>FIRE DETECTION/ALARM</b>							
<b>2831.2350</b>	<b>Alarm Panels And Devices</b>							
n 5600	Detection Systems, strobe & horn, excl. wires & conduit		0.53 ea	Lab Mat	5.30000 ea/cd	0.10 cd 0.53 ea	438.18 141.401	44 75
n 5800	Detection Systems, fire alarm horn, excl. wires & conduit		0.83 ea	Lab Mat	6.69996 ea/cd	0.12 cd 0.83 ea	438.18 56.47	54 47
n 7000	Detection Systems, break glass station, excl. wires & conduit		0.53 ea	Lab Mat	8.00000 ea/cd	0.07 cd 0.53 ea	438.18 51.721	29 27
	<b>Alarm Panels And Devices</b>							<b>275</b>
	2.310 Labor hours							
<b>2831.4650</b>	<b>Smoke Detectors</b>							
n 5200	Detection Systems, heat detector, smoke det, clng, excl wires & cond		6.60 ea	Lab Mat	6.19996 ea/cd	1.06 cd 6.60 ea	438.18 102.492	466 676
	<b>Smoke Detectors</b>							<b>1,143</b>
	8.52 Labor hours							
	<b>FIRE DETECTION/ALARM</b>							<b>1,418</b>
	10.83 Labor hours							
<b>3122.0000</b>	<b>GRADING</b>							
<b>3122.1610</b>	<b>Finish Grading</b>							
n 0012	Fine grade, small area, to be paved with grader		1,210.00 sy	Lab Eqp	400.00000 sy/cd 400.00000 sy/cd	3.03 cd 3.03 cd	718.211 522.14	2,173 1,579

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>Finish Grading</b>								<b>3,752</b>
	48.40	Labor hours						
	24.20	Equipment hours						
<b>GRADING</b>								<b>3,752</b>
	48.40	Labor hours						
	24.20	Equipment hours						
<b>3123.0000</b>	<b>EXCAVATION &amp; FILL</b>							
<b>3123.1613</b>	<b>Excavating, Trench</b>							
n 0050	Excavating, trench/CF, CE, .375 CY excvtr, 1'-4'BG, no sht/dwtr		80.81 cy	Lab	150.00000 cy/cd	0.54 cd	718.211	387
				Eqp	150.00000 cy/cd	0.54 cd	278.82	150
n 2100	'Excavate, trim sides/bottom for conc. pours, no sht/dwtr		1,092.00 sf	Lab	1,500.00000 sf/cd	0.73 cd	985.52	717
				Eqp	1,500.00000 sf/cd	0.73 cd	37.201	27
<b>Excavating, Trench</b>								<b>1,282</b>
	26.092	Labor hours						
	10.134	Equipment hours						
<b>3123.1642</b>	<b>Excvtng,Bulk Bank Measure</b>							
n 1250	Excav, bulk bnk measure, 2.5 CY cap=95 CY/hr, frnt end ldr, trk mntd		330.00 cy	Lab	760.00000 cy/cd	0.43 cd	557.351	242
				Eqp	760.00000 cy/cd	0.43 cd	728.263	316
n 3850	Excav., bulk bank measure, 1.5 C.Y. cap. = 160 C.Y./hour, shovel		165.00 cy	Lab	1,280.00000 cy/cd	0.13 cd	729.720	94
				Eqp	1,280.00000 cy/cd	0.13 cd	1,071.611	138
<b>Excvtng,Bulk Bank Measure</b>								<b>790</b>
	7.274	Labor hours						
	5.54	Equipment hours						
<b>3123.2313</b>	<b>Backfill, General</b>							
n 2200	Backfill, trench, 6"to 12"lifts, dozer bkflng, compaction w/vbrtng rlr		484.00 cy	Lab	700.00000 cy/cd	0.69 cd	557.351	385
				Eqp	700.00000 cy/cd	0.69 cd	1,416.67	980
n 2200	Backfill, trench, 6"to 12"lifts, dozer bkflng, compaction w/vbrtng rlr		40.404 cy	Lab	700.00000 cy/cd	0.06 cd	557.351	32
				Eqp	700.00000 cy/cd	0.06 cd	1,416.67	82
<b>Backfill, General</b>								<b>1,479</b>
	8.99	Labor hours						
	11.99	Equipment hours						
<b>3123.2317</b>	<b>General Fill</b>							
n 0500	Fill, gravel fill, compacted, under floor slabs, 4" deep		11,000.00 sf	Lab	10,000.00000 sf/cd	1.10 cd	2,003.392	2,204
				Mat		11,000.00 sf	0.40	4,384
				Eqp	10,000.00000 sf/cd	1.10 cd	130.772	144
<b>General Fill</b>								<b>6,732</b>
	52.80	Labor hours						
	8.80	Equipment hours						
<b>3123.2320</b>	<b>Hauling</b>							
n 1020	Hauling, 12 CY truck, cycle 4 miles, 15 MPH ave, 15 min. wait/Ld./Uld.		77.00 cy	Lab	180.00000 cy/cd	0.43 cd	322.372	138
				Eqp	180.00000 cy/cd	0.43 cd	505.82	216

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Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
	Hauling							<hr/>
	3.422	Labor hours						354
	3.422	Equipment hours						
<hr/> <b>EXCAVATION &amp; FILL</b>								<hr/>
	98.58	Labor hours						10,637
	39.88	Equipment hours						

## Estimate Totals

Description	Amount	Totals	Hours	Rate	Cost Basis	Cost per Unit	Percent of Total
Labor	343,626		##### hrs				22.16%
Material	518,817						33.45%
Subcontract							
Equipment	10,125		357.347 hrs				0.65%
Other							
	872,568	872,568					56.26 #####
Preservation Factor					T		
Contingency (Std 20%)	174,514			#### %	T		11.25%
Administrative (15%)	157,062			#### %	T		10.13%
Total Allocatable Cost	331,576	#####					21.38 #####
Overhead (Standard 15%)	180,622			#### %	T		11.65%
Profit (Standard 12%)	166,172			#### %	T		10.71%
Total Services Cost	346,794	#####					22.36 #####
Total		#####					

**PROJECT: Construct 2,000 sf basement BRVC**

<b>Project name</b>	General
<b>Estimator</b>	KLTHOMPSON
<b>Labor rate table</b>	LAB-2013-Burd/WC
<b>Equipment rate table</b>	EQP-2013
<b>Bid date</b>	2/17/2009 3:08 PM
<b>Location Number</b>	20479
<b>Work Order No</b>	2765995
<b>Revision No</b>	00
<b>Park Alpha Code</b>	BADL
<b>Work Order Type</b>	CI
<b>Database</b>	CESSDATA08
<b>Pricing Date</b>	1/1/2008
<b>WorkSubType</b>	EP
<b>Site Number</b>	P065
<b>Status</b>	EXPORTED
<b>Report format</b>	Sorted by 'Group phase/Phase' 'Detail' summary
<b>Cost index</b>	BADL

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>0110.0000 SUMMARY</b>								
<b>0110.0001 Summary</b>								
0000	NPS CESS Data Update 2013; Prices as of 1/1/2013; Revision 0 Release 3		1.00 ver	Oth		1.00 ver		
0001	General Template April 2013; Revision 0 Release 3		1.00 ver	Oth		1.00 ver		
<b>SUMMARY</b>								<b>0</b>
<b>0305.1300 BASIC CONCRETE MATERIALS</b>								
<b>0305.1380 Watprfng &amp; Dampprfng</b>								
n 0050	Waterproofing & dmpfrng, integral wtrprfng, add to cost of reg conc		51.800 cy	Mat		51.80 cy	11.483	595
<b>Watprfng &amp; Dampprfng</b>								<b>595</b>
<b>BASIC CONCRETE MATERIALS</b>								<b>595</b>
<b>0311.0000 CONCRETE FORMING</b>								
<b>0311.1365 Forms Place, Slab Grade</b>								
n 3000	Forms in place, SOG, edge forms, to 6"high, wood, 4 use		168.00 lf	Lab Mat	600.00000 lf/cd	0.28 cd 168.00 lf	1,477.122 0.294	414 49
<b>Forms Place, Slab Grade</b> 8.96 Labor hours								<b>463</b>
<b>0311.1385 Forms In Place, Walls</b>								
n 9060	Form in place, walls, stl frm plyw,-8'H, 100use frm , 4use brcg		2,800.00 sfca	Lab Mat	600.00000 sfca/cd	4.67 cd 2,800.00 sfca	2,276.23 0.57	10,622 1,594
<b>Forms In Place, Walls</b> 224.00 Labor hours								<b>12,217</b>
<b>CONCRETE FORMING</b> 232.96 Labor hours								<b>12,680</b>
<b>0315.0000 CONCRETE ACCESSORIES</b>								
<b>0315.0525 Expansion Joint</b>								
n 2000	Expansion joint, premolded, bituminous fiber, 1/2" x 6"		1,232.00 lf	Lab Mat	375.00000 lf/cd	3.29 cd 1,232.00 lf	389.333 0.41	1,279 503
<b>Expansion Joint</b> 26.283 Labor hours								<b>1,782</b>

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>CONCRETE ACCESSORIES</b>								<b>1,782</b>
	26.283 Labor hours							
<b>0321.0000 REINFORCING STEEL</b>								
<b>0321.1060</b>	<b>Reinforcing In Place</b>							
n 0700	Reinforcing in place, A615 Gr 60, walls, #3 to #7		1.26 tn	Lab	3.00000 tn/cd	0.42 cd	1,829.46	768
				Mat		1.26 tn	949.000	1,195
n 2000	Reinforcing steel, unload and sort, add to base		1.26 tn	Lab	100.00000 tn/cd	0.01 cd	3,040.21	38
				Eqp	100.00000 tn/cd	0.01 cd	745.914	9
	<b>Reinforcing In Place</b>							<b>2,010</b>
	14.134 Labor hours							
	0.101 Equipment hours							
<b>REINFORCING STEEL</b>								<b>2,010</b>
	14.134 Labor hours							
	0.101 Equipment hours							
<b>0331.0000 STRUCTURAL CONCRETE</b>								
<b>0331.0535</b>	<b>Norm Wt Conc, Ready Mix</b>							
n 0150	Concrete, ready mix, regular weight, 3000 psi		51.800 cy	Mat		51.80 cy	92.053	4,768
	<b>Norm Wt Conc, Ready Mix</b>							<b>4,768</b>
<b>0331.0570</b>	<b>Placing Concrete</b>							
n 5050	Structl conc, plng, walls, drct chute, 12"thk, incl vbrtng, exc mat		51.800 cy	Lab	100.00000 cy/cd	0.52 cd	1,919.151	994
				Eqp	100.00000 cy/cd	0.52 cd	47.070	24
	<b>Placing Concrete</b>							<b>1,019</b>
	24.864 Labor hours							
	8.29 Equipment hours							
<b>STRUCTURAL CONCRETE</b>								<b>5,787</b>
	24.864 Labor hours							
	8.29 Equipment hours							
<b>0335.0000 CONCRETE FINISHING</b>								
<b>0335.2960</b>	<b>Finishing Walls</b>							
n 0020	Concrete finishing, walls, includes breaking ties and patching voids		1,400.00 sf	Lab	540.00000 sf/cd	2.59 cd	353.10	915
				Mat		1,400.00 sf	0.04	53
	<b>Finishing Walls</b>							<b>969</b>
	20.741 Labor hours							
<b>CONCRETE FINISHING</b>								<b>969</b>
	20.741 Labor hours							



Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>0726.0000 VAPOR RETARDERS</b>								
0726.1010	Vapor Retarders							
n 0900	Building Paper, PE vapor barrier, std, .006"thk, 9' x 400' roll		56.00 sq	Lab	37.00000 sq/cd	1.51 cd	389.333	589
				Mat		56.00 sq	3.824	214
	<b>Vapor Retarders</b>							<b>803</b>
	12.11 Labor hours							
<b>VAPOR RETARDERS</b>								<b>803</b>
	12.11 Labor hours							
<b>0997.0000 SPECIAL COATINGS</b>								
0997.1323	Exterior Steel Coatings							
n 6610	Paints and protective coatings, epoxy primer, sprayed		4,800.00 sf	Lab	3,000.00000 sf/cd	1.60 cd	833.632	1,334
				Mat		4,800.00 sf	0.28	1,321
n 6650	Paints and protective coatings, epoxy enamel, sprayed		4,800.00 sf	Lab	2,800.00000 sf/cd	1.71 cd	833.632	1,429
				Mat		4,800.00 sf	0.304	1,458
	<b>Exterior Steel Coatings</b>							<b>5,542</b>
	53.03 Labor hours							
<b>SPECIAL COATINGS</b>								<b>5,542</b>
	53.03 Labor hours							
<b>2105.0000 COMM WORK RES FIRE SUPPR</b>								
2105.2350	Gen-Duty Vlv Water Fire S							
n 6260	Sprnklr Sys Vlv Alarm, 3", rtrd chmbr, trim, gas/alarm line strmr		0.75 ea	Lab	3.00000 ea/cd	0.25 cd	794.33	199
				Mat		0.75 ea	1,399.78	1,050
n 6520	Sprnklr Sys Comp, vlvs, chk, swing, Cl brs ftgs, auto ball drip, 4"		0.75 ea	Lab	3.00000 ea/cd	0.25 cd	794.33	199
				Mat		0.75 ea	280.904	211
n 8840	Sprinkler System Components, vlvs, flow ctrl, 4"size, incl trim & ga		0.75 ea	Lab	2.79998 ea/cd	0.27 cd	1,681.64	450
				Mat		0.75 ea	4,934.800	3,701
	<b>Gen-Duty Vlv Water Fire S</b>							<b>5,809</b>
	16.571 Labor hours							
<b>COMM WORK RES FIRE SUPPR</b>								<b>5,809</b>
	16.571 Labor hours							
<b>2111.0000 FIRE SUPPR WATER SERV PPP</b>								
2111.1950	Fire-Department Conn							
n 7160	Standpipe conns, wall, w/plugs & chains, sgl, fish, brs, 2.5"x2.5"		0.75 ea	Lab	5.00000 ea/cd	0.15 cd	794.33	119
				Mat		0.75 ea	136.66	102

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>Fire-Department Conn</b>								<b>222</b>
	2.40 Labor hours							
<b>FIRE SUPPR WATER SERV PPP</b>								<b>222</b>
	2.40 Labor hours							
<b>2113.0000 SPRINKLER SYSTEMS</b>								
<b>2113.1350 Wet-Pipe Sprinkler System</b>								
n	1220		0.75 ea	Lab	4.00000 ea/cd	0.19 cd	441.293	83
				Mat		0.75 ea	351.130	263
n	3720		12.00 ea	Lab	16.00000 ea/cd	0.75 cd	441.293	331
				Mat		12.00 ea	13.144	158
<b>Wet-Pipe Sprinkler System</b>								<b>835</b>
	7.50 Labor hours							
<b>SPRINKLER SYSTEMS</b>								<b>835</b>
	7.50 Labor hours							
<b>2205.2300 GEN-DUTY VALVES PLUMBING</b>								
<b>2205.2320 Valves, Bronze</b>								
n	1110		0.75 ea	Lab	11.00000 ea/cd	0.07 cd	441.06	30
				Mat		0.75 ea	635.830	477
n	1910		0.75 ea	Lab	15.00000 ea/cd	0.05 cd	793.903	40
				Mat		0.75 ea	678.54	509
n	3450		0.75 ea	Lab	19.00000 ea/cd	0.04 cd	441.06	17
				Mat		0.75 ea	94.43	71
<b>Valves, Bronze</b>								<b>1,144</b>
	1.661 Labor hours							
<b>GEN-DUTY VALVES PLUMBING</b>								<b>1,144</b>
	1.661 Labor hours							
<b>2211.0000 FACIL WATER DISTRIBUTION</b>								
<b>2211.1344 Pipe, Steel</b>								
n	0580		84.00 lf	Lab	53.00000 lf/cd	1.58 cd	441.06	699
				Mat		84.00 lf	4.84	407
n	0590		28.13 lf	Lab	89.00000 lf/cd	0.32 cd	793.903	251
				Mat		28.13 lf	5.98	168
n	0610		9.38 lf	Lab	64.00000 lf/cd	0.15 cd	793.903	116
				Mat		9.38 lf	9.300	87

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>2211.1344 Pipe, Steel</b>								
n 0620	Pipe, b-stl, thrd, 2.5"D, sch40, Spec A-53, incl cplg/clvs hgr, 10' OC		15.00 lf	Lab Mat	50.00000 lf/cd	0.30 cd 15.00 lf	793.903 14.52	238 218
n 2110	Pipe, b-stl, wld, 4"D, sch40, Spec A-53, yoke/roll hgrs, 10'OC		7.50 lf	Lab Mat Eqp	37.00000 lf/cd 37.00000 lf/cd	0.20 cd 7.50 lf 0.20 cd	793.903 22.302 53.334	161 167 11
<b>Pipe, Steel</b>								<b>2,523</b>
28.122 Labor hours								
1.622 Equipment hours								

<b>2211.1345 Pipe, Steel, Fitting Thrd</b>								
n 5100	Elbow, 90 Deg., stl, MI, blk, straight, thrd., 150 lb., 1"		4.50 ea	Lab Mat	13.00000 ea/cd	0.35 cd 4.50 ea	441.06 5.741	153 26
n 5510	Tee, steel, malleable iron, black, straight, threaded, 150 lb., 1"		3.00 ea	Lab Mat	8.00000 ea/cd	0.38 cd 3.00 ea	441.06 9.02	165 27
n 5520	Tee, steel, malleable iron, black, straight, threaded, 150 lb., 1-1/4"		3.75 ea	Lab Mat	14.00000 ea/cd	0.27 cd 3.75 ea	793.903 14.615	213 55
n 5540	Tee, steel, malleable iron, black, straight, threaded, 150 lb., 2"		0.75 ea	Lab Mat	11.00000 ea/cd	0.07 cd 0.75 ea	793.903 30.843	54 23
n 5550	Tee, steel, malleable iron, black, straight, threaded, 150 lb., 2-1/2"		1.50 ea	Lab Mat	9.00000 ea/cd	0.17 cd 1.50 ea	793.903 66.905	132 100
n 5580	Tee, steel, malleable iron, black, straight, threaded, 150 lb., 4"		1.50 ea	Lab Mat	4.00000 ea/cd	0.38 cd 1.50 ea	793.903 237.250	298 356
<b>Pipe, Steel, Fitting Thrd</b>								<b>1,602</b>
19.813 Labor hours								

**FACIL WATER DISTRIBUTION**

47.94 Labor hours  
1.622 Equipment hours

**4,125**

**2305.2300 GEN DUTY VALVES HVAC**

<b>2305.2330 Valves, Iron Body</b>								
n 3680	Valves, iron body, gate, OS&Y, flanged, 125 lb., 4"		0.75 ea	Lab Mat	3.00000 ea/cd	0.25 cd 0.75 ea	793.903 654.810	198 491
<b>Valves, Iron Body</b>								<b>690</b>
4.00 Labor hours								

**GEN DUTY VALVES HVAC**

4.00 Labor hours

**690**

**2605.1900 LOW-VOLTAGE CONDUTORS**

<b>2605.1990 Wire</b>								
n 0030	Wire, copper solid, 600 volt, #12, type THW, in raceway		6.00 clf	Lab Mat	11.00000 clf/cd	0.55 cd 6.00 clf	425.36 11.82	232 71
n 0940	Wire, copper, solid, 600 volt, #12, type THWN-THHN, in raceway		7.414 clf	Lab Mat	11.00000 clf/cd	0.67 cd 7.41 clf	425.36 11.82	287 88
n 0940	Wire, copper, solid, 600 volt, #12, type THWN-THHN, in raceway		1.342 clf	Lab Mat	11.00000 clf/cd	0.12 cd 1.34 clf	425.36 11.82	52 16

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>Wire</b>								<b>745</b>
	10.732 Labor hours							
<b>LOW-VOLTAGE CONDUTORS</b>								<b>745</b>
	10.732 Labor hours							
<b>2605.3300 CONDUIT &amp; TUBING</b>								
<b>2605.3305 Conduit</b>								
n	2500	Intrmdt mtl cond, .5"dia, to 15'H, 2T, 2 elb/11 bm clmp per 100LF	370.00	lf	Lab Mat	100.00000 lf/cd 370.00 lf	425.36 1.56	1,574 575
n	2500	Intrmdt mtl cond, .5"dia, to 15'H, 2T, 2 elb/11 bm clmp per 100LF	62.00	lf	Lab Mat	100.00000 lf/cd 62.00 lf	425.36 1.56	264 96
n	2500	Intrmdt mtl cond, .5"dia, to 15'H, 2T, 2 elb/11 bm clmp per 100LF	256.00	lf	Lab Mat	100.00000 lf/cd 256.00 lf	425.36 1.56	1,089 398
<b>Conduit</b>								<b>3,996</b>
	55.04 Labor hours							
<b>2605.3350 Outlet Boxes</b>								
n	0150	Outlet boxes, pressed steel, 4" square	8.00	ea	Lab Mat	20.00000 ea/cd 8.00 ea	425.36 2.363	170 19
n	0150	Outlet boxes, pressed steel, 4" square	2.00	ea	Lab Mat	20.00000 ea/cd 2.00 ea	425.36 2.363	43 5
n	0300	Outlet boxes, pressed steel, plaster rings, 4" square, concealed	8.00	ea	Lab Mat	64.00000 ea/cd 8.00 ea	425.36 2.524	53 20
n	0300	Outlet boxes, pressed steel, plaster rings, 4" square, concealed	2.00	ea	Lab Mat	64.00000 ea/cd 2.00 ea	425.36 2.524	13 5
n	0950	Outlet boxes, pressed steel, concrete, set flush, 4" deep	10.00	ea	Lab Mat	20.00000 ea/cd 10.00 ea	425.36 13.381	213 134
n	1000	Outlet boxes, pressed steel, concrete, plate, incl 3/8" stud	10.00	ea	Lab Mat	80.00000 ea/cd 10.00 ea	425.36 5.41	53 54
<b>Outlet Boxes</b>								<b>782</b>
	10.25 Labor hours							
<b>CONDUIT &amp; TUBING</b>								<b>4,778</b>
	65.29 Labor hours							
<b>2627.0000 LOW-VOLTAGE DISTRIB EQP</b>								
<b>2627.2620 Wiring Devices Elements</b>								
n	0200	Toggle switch, quiet type, single pole, 15 amp	2.00	ea	Lab Mat	40.00000 ea/cd 2.00 ea	425.36 5.172	21 10
n	2460	Duplex receptacle, grounded, 120 volt, 15 amp	8.00	ea	Lab Mat	40.00000 ea/cd 8.00 ea	425.36 1.16	85 9
n	3110	Wall plate, brown plastic, 1 gang	8.00	ea	Lab Mat	80.00000 ea/cd 8.00 ea	425.36 0.361	43 3
n	3110	Wall plate, brown plastic, 1 gang	2.00	ea	Lab Mat	80.00000 ea/cd 2.00 ea	425.36 0.361	11 1

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount	
	<b>Wiring Devices Elements</b>							<b>183</b>	
	3.00 Labor hours								
	<b>LOW-VOLTAGE DISTRIB EQP</b>							<b>183</b>	
	3.00 Labor hours								
<b>2651.0000</b>	<b>INTERIOR LIGHTING</b>								
<b>2651.1350</b>	<b>Interior Lighting Fixture</b>								
n 0600	Fluor fxt, int., acryl lens, GRM/A cbl, 4-40 W, 2' W x 4' L, HW		10.00 ea		Lab Mat	4.69998 ea/cd	2.13 cd 10.00 ea	425.36 54.093	905 541
	<b>Interior Lighting Fixture</b>							<b>1,446</b>	
	17.021 Labor hours								
	<b>INTERIOR LIGHTING</b>							<b>1,446</b>	
	17.021 Labor hours								
<b>2831.0000</b>	<b>FIRE DETECTION/ALARM</b>								
<b>2831.2350</b>	<b>Alarm Panels And Devices</b>								
n 5800	Detection Systems, fire alarm horn, excl. wires & conduit		0.75 ea		Lab Mat	6.69998 ea/cd	0.11 cd 0.75 ea	425.36 56.47	48 42
	<b>Alarm Panels And Devices</b>							<b>90</b>	
	0.90 Labor hours								
	<b>FIRE DETECTION/ALARM</b>							<b>90</b>	
	0.90 Labor hours								
<b>3105.0000</b>	<b>COMM WORK RES EARTHWORK</b>								
<b>3105.1610</b>	<b>Borrow</b>								
n 0100	Aggregate, bank run gravel, load at pit, hl 2mi RT&sprd w/200 HP dozer		204.00 cy		Lab Mat Eqp	600.00000 cy/cd	0.34 cd 204.00 cy 0.34 cd	1,159.864 22.78 1,970.504	394 4,646 670
	<b>Borrow</b>							<b>5,711</b>	
	9.52 Labor hours								
	8.16 Equipment hours								
	<b>COMM WORK RES EARTHWORK</b>							<b>5,711</b>	
	9.52 Labor hours								
	8.16 Equipment hours								
<b>3122.0000</b>	<b>GRADING</b>								
<b>3122.1610</b>	<b>Finish Grading</b>								
n 0012	Fine grade, small area, to be paved with grader		616.00 sy		Lab Eqp	400.00000 sy/cd	1.54 cd 1.54 cd	692.75 507.15	1,067 781

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>Finish Grading</b>								<b>1,848</b>
	24.64	Labor hours						
	12.32	Equipment hours						
<b>GRADING</b>								<b>1,848</b>
	24.64	Labor hours						
	12.32	Equipment hours						
<hr/>								
<b>3123.0000</b>	<b>EXCAVATION &amp; FILL</b>							
<b>3123.1642</b>	<b>Excvtng,Bulk Bank Measure</b>							
n 1250	Excav, bulk bnk measure, 2.5 CY cap=95 CY/hr, frnt end ldr, trk mntd		140.00 cy	Lab	760.00000 cy/cd	0.18 cd	538.19	99
				Eqp	760.00000 cy/cd	0.18 cd	602.805	111
n 3850	Excav., bulk bank measure, 1.5 C.Y. cap. = 160 C.Y./hour, shovel		72.00 cy	Lab	1,280.00000 cy/cd	0.06 cd	703.34	40
				Eqp	1,280.00000 cy/cd	0.06 cd	1,068.194	60
<b>Excvtng,Bulk Bank Measure</b>								<b>310</b>
	3.111	Labor hours						
	2.374	Equipment hours						
<b>3123.2313</b>	<b>Backfill, General</b>							
n 2200	Backfill, trench, 6"to 12"lifts, dozer bkfng, compaction w/vbrtng rlr		204.00 cy	Lab	700.00000 cy/cd	0.29 cd	538.19	157
				Eqp	700.00000 cy/cd	0.29 cd	1,368.84	399
<b>Backfill, General</b>								<b>556</b>
	3.50	Labor hours						
	4.663	Equipment hours						
<b>3123.2317</b>	<b>General Fill</b>							
n 0500	Fill, gravel fill, compacted, under floor slabs, 4" deep		2,000.00 sf	Lab	10,000.00000 sf/cd	0.20 cd	1,929.461	386
				Mat		2,000.00 sf	0.40	797
				Eqp	10,000.00000 sf/cd	0.20 cd	123.56	25
<b>General Fill</b>								<b>1,208</b>
	9.60	Labor hours						
	1.60	Equipment hours						
<b>3123.2318</b>	<b>Hauling</b>							
n 0400	Hauling, LCY, no loading, 12 c.y dump truck, 2 MI RT, 2.2 lds/hr		296.00 cy	Lab	180.00000 cy/cd	1.64 cd	310.84	511
				Eqp	180.00000 cy/cd	1.64 cd	477.16	785
<b>Hauling</b>								<b>1,296</b>
	13.16	Labor hours						
	13.16	Equipment hours						
<b>EXCAVATION &amp; FILL</b>								<b>3,369</b>
	29.364	Labor hours						
	21.792	Equipment hours						

**3346.0000 SUBDRAINAGE**

3346.2610 Geotextiles-Subsurf Drain

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>3346.2610</b>	<b>Geotextiles-Subsurf Drain</b>							
n 0150	Drainage geotextiles, plastic filter fabric, in undrgrnd drain lines		14.00 csf	Lab	22.47999 csf/cd	0.62 cd	2,298.17	1,431
				Mat		14.00 csf	6.41	90
				Eqp	22.47999 csf/cd	0.62 cd	745.914	465
n 0185	Drainage geotextiles, soil drainage mat on vertical wall, 0.44" thick		56.00 sy	Lab	265.00000 sy/cd	0.21 cd	618.25	131
				Mat		56.00 sy	1.73	97
n 0400	Drainage geotextiles, drainage material, pea stone fill in trench		72.00 cy	Lab	260.00000 cy/cd	0.28 cd	981.653	272
				Mat		72.00 cy	22.302	1,606
				Eqp	260.00000 cy/cd	0.28 cd	270.845	75
	<b>Geotextiles-Subsurf Drain</b>							<b>4,165</b>
	44.902 Labor hours							
	7.20 Equipment hours							

**SUBDRAINAGE**

44.902 Labor hours  
7.20 Equipment hours

**4,165**

## Estimate Totals

Description	Amount	Total Hours	Rate	Cost Basis per Unit	Percent of Total
Labor	41,888	##### hrs			24.30%
Material	50,507				29.30%
Subcontract					
Equipment	4,581	##### hrs			2.66%
Other					
	<u>96,976</u>	96,976			<u>56.26</u> ###
Preservation Factor				T	
Contingency (Std 20%)	<u>19,395</u>		#### %	T	<u>11.25</u>
Total Allocatable Cost	19,395	116,371			11.25 ###
Administrative (15%)	17,456		#### %	T	10.13%
Overhead (Standard 15%)	20,074		#### %	T	11.65%
Profit (Standard 12%)	<u>18,468</u>		#### %	T	<u>10.71</u>
Total Services Cost	55,998	172,369			32.49 ###
Total		172,369			

**PROJECT: Construct Emergency Vehicle Storage Addition**

<b>Project name</b>	Template General
<b>Estimator</b>	KLTHOMPSON
<b>Labor rate table</b>	LAB-2013-Burd/WC
<b>Equipment rate table</b>	EQP-2013
<b>Bid date</b>	12/21/2009 1:16 PM
<b>Location/Asset No</b>	20479
<b>Work Order No</b>	4830719
<b>Revision No</b>	00
<b>Park Alpha Code</b>	BADL
<b>Work Order Type</b>	CI
<b>Database</b>	CESSDATA09
<b>Pricing Date</b>	1/1/2009
<b>WorkSubType</b>	NC
<b>Definable field 15</b>	P065
<b>Status</b>	EXPORTED
<b>Report format</b>	Sorted by 'Group phase/Phase' 'Detail' summary
<b>Cost index</b>	BADL

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>0110.0000 SUMMARY</b>								
<b>0110.0001 Summary</b>								
0000	NPS CESS Data Update 2013; Prices as of 1/1/2013; Revision 0 Release 3			Oth		ver		
0000	NPS CESS Data Update 2013; Prices as of 1/1/2013; Revision 0 Release 3			Oth		ver		
<b>SUMMARY</b>								<b>0</b>
<b>0311.0000 CONCRETE FORMING</b>								
<b>0311.1365 Forms Place, Slab Grade</b>								
n 3000	Forms in place, SOG, edge forms, to 6"high, wood, 4 use		24.00 lf	Lab Mat	600.00000 lf/cd	0.04 cd 24.00 lf	1,541.90 0.294	62 7 <b>69</b>
	<b>Forms Place, Slab Grade</b> 1.28 Labor hours							
<b>0311.1385 Forms In Place, Walls</b>								
n 9060	Form in place, walls, stl frm plyw,-8'H, 100use frm , 4use brcg		960.00 sfca	Lab Mat	600.00000 sfca/cd	1.60 cd 960.00 sfca	2,375.711 0.57	3,801 547 <b>4,348</b>
	<b>Forms In Place, Walls</b> 76.80 Labor hours							
<b>CONCRETE FORMING</b>								<b>4,417</b>
	78.08 Labor hours							
<b>0315.0000 CONCRETE ACCESSORIES</b>								
<b>0315.0502 Anchor Bolts</b>								
n 0200	Anchor bolts, J-type, .625"dia. x 12"L, incl. nut & washer		42.00 ea	Lab Mat	80.00000 ea/cd	0.53 cd 42.00 ea	406.73 1.50	214 63 <b>276</b>
	<b>Anchor Bolts</b> 4.20 Labor hours							
<b>0315.0525 Expansion Joint</b>								
n 2000	Expansion joint, premolded, bituminous fiber, 1/2" x 6"		176.00 lf	Lab Mat	375.00000 lf/cd	0.47 cd 176.00 lf	406.73 0.41	191 72 <b>263</b>
	<b>Expansion Joint</b> 3.755 Labor hours							
<b>CONCRETE ACCESSORIES</b>								<b>539</b>
	7.955 Labor hours							
<b>0321.0000 REINFORCING STEEL</b>								

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>0321.1060</b>	<b>Reinforcing In Place</b>							
n 0700	Reinforcing in place, A615 Gr 60, walls, #3 to #7		0.432 tn	Lab	3.00000 tn/cd	0.14 cd	1,887.310	272
				Mat		0.43 tn	949.000	410
n 2000	Reinforcing steel, unload and sort, add to base		0.432 tn	Lab	100.00000 tn/cd	0.00 cd	3,141.182	14
				Eqp	100.00000 tn/cd	0.00 cd	749.141	3
	<b>Reinforcing In Place</b>							<b>699</b>
	4.85 Labor hours							
	0.035 Equipment hours							
<b>REINFORCING STEEL</b>								<b>699</b>
	4.85 Labor hours							
	0.035 Equipment hours							
<b>0322.0000</b>	<b>WELDED WIRE FABRIC</b>							
<b>0322.0550</b>	<b>Welded Wire Fabric</b>							
n 0200	Welded wire fabric, sheets, 6x6 - W2.1xW2.1 (8x8) 30 lb. per CSF, A185		15.20 csf	Lab	31.00000 csf/cd	0.49 cd	943.66	463
				Mat		15.20 csf	16.47	250
	<b>Welded Wire Fabric</b>							<b>713</b>
	7.85 Labor hours							
<b>WELDED WIRE FABRIC</b>								<b>713</b>
	7.85 Labor hours							
<b>0331.0000</b>	<b>STRUCTURAL CONCRETE</b>							
<b>0331.0535</b>	<b>Norm Wt Conc, Ready Mix</b>							
n 0150	Concrete, ready mix, regular weight, 3000 psi		17.76 cy	Mat		17.76 cy	92.053	1,635
n 0300	Concrete, ready mix, regular weight, 4000 psi		15.20 cy	Mat		15.20 cy	96.80	1,471
	<b>Norm Wt Conc, Ready Mix</b>							<b>3,106</b>
<b>0331.0570</b>	<b>Placing Concrete</b>							
n 4600	Struct conc, plcng, SOG, direct cht, over 6"thk, incl vbrng, exc mat		9.60 cy	Lab	165.00000 cy/cd	0.06 cd	1,993.583	116
				Eqp	165.00000 cy/cd	0.06 cd	49.35	3
n 5050	Structl conc, plcng, walls, drct chute, 12"thk, incl vbrng, exc mat		17.76 cy	Lab	100.00000 cy/cd	0.18 cd	1,993.583	354
				Eqp	100.00000 cy/cd	0.18 cd	49.35	9
	<b>Placing Concrete</b>							<b>482</b>
	11.32 Labor hours							
	3.773 Equipment hours							
<b>STRUCTURAL CONCRETE</b>								<b>3,588</b>
	11.32 Labor hours							
	3.773 Equipment hours							

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>0335.0000 CONCRETE FINISHING</b>								
<b>0335.2930 Finishing Floors</b>								
n	0250	Concrete finishing, floors, monolithic, machine trowel finish	800.00 sf	Lab	1,715.00000 sf/cd	0.47 cd	1,050.98	490
				Eqp	1,715.00000 sf/cd	0.47 cd	40.24	19
n	2000	Conc finishing, floor, hardener, metallic, light srvc, 0.50 psf, add	800.00 sf	Lab	850.00000 sf/cd	0.94 cd	364.63	343
				Mat		800.00 sf	0.475	380
n	2000	Conc finishing, floor, hardener, metallic, light srvc, 0.50 psf, add	720.00 sf	Lab	850.00000 sf/cd	0.85 cd	364.63	309
				Mat		720.00 sf	0.475	342
		<b>Finishing Floors</b>						<b>1,882</b>
		25.501 Labor hours						
		3.732 Equipment hours						
<b>0335.2960 Finishing Walls</b>								
n	0020	Concrete finishing, walls, includes breaking ties and patching voids	480.00 sf	Lab	540.00000 sf/cd	0.89 cd	364.63	324
				Mat		480.00 sf	0.04	18
		<b>Finishing Walls</b>						<b>342</b>
		7.111 Labor hours						
<b>CONCRETE FINISHING</b>								<b>2,225</b>
		32.612 Labor hours						
		3.732 Equipment hours						
<b>0339.0000 CONCRETE CURING</b>								
<b>0339.2313 Chem Cmpnd Membr Conc Cur</b>								
n	0300	Curing, sprayed membrane compound	8.00 csf	Lab	95.00000 csf/cd	0.08 cd	643.44	54
				Mat		8.00 csf	7.64	61
		<b>Chem Cmpnd Membr Conc Cur</b>						<b>115</b>
		1.35 Labor hours						
<b>CONCRETE CURING</b>								<b>115</b>
		1.35 Labor hours						
<b>0405.1600 MASONRY GROUTING</b>								
<b>0405.1630 Grouting</b>								
n	0200	Grout, CMU cores, 4"thk, 0.067 C.F./S.F., by hand, exc. blockwork	288.00 sf	Lab	1,100.00000 sf/cd	0.26 cd	1,843.66	483
				Mat		288.00 sf	0.28	79
		<b>Grouting</b>						<b>562</b>
		10.473 Labor hours						
<b>MASONRY GROUTING</b>								<b>562</b>
		10.473 Labor hours						

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>0405.1900 ANCHORAGE &amp; REINFORCEMENT</b>								
0405.1926	Masonry Reinforcing Bars							
n 0060	#5 and #6 reinforcing steel bars, placed vertically, ASTM A615		495.36 lb	Lab	650.00000 lb/cd	0.76 cd	401.875	306
				Mat		495.36 lb	0.475	235
n 0700	Ladder stl jnt rnfrcng, mill std galv, 8"wall, 9 ga sides, 9 ga ties		9.22 clf	Lab	25.00000 clf/cd	0.37 cd	401.875	148
				Mat		9.22 clf	17.56	162
	<b>Masonry Reinforcing Bars</b>							<b>851</b>
	9.05 Labor hours							
<b>ANCHORAGE &amp; REINFORCEMENT</b>								<b>851</b>
	9.05 Labor hours							
<b>0405.2300 MASONRY ACCESSORIES</b>								
0405.2313	Control/Expansion Joint							
n 0050	Control joint, PVC, 4" wall		57.60 lf	Lab	400.00000 lf/cd	0.14 cd	401.875	58
				Mat		57.60 lf	1.18	68
	<b>Control/Expansion Joint</b>							<b>126</b>
	1.152 Labor hours							
<b>MASONRY ACCESSORIES</b>								<b>126</b>
	1.152 Labor hours							
<b>0422.0000 CONCRETE UNIT MASONRY</b>								
0422.1036	CMU Walls, System Only							
n 4330	CMU, high strength, 4500 PSI		1,152.00 sf	Lab	370.00000 sf/cd	3.11 cd	1,843.66	5,740
	75% solid, 8"x8"x16"units			Mat		1,152.00 sf	3.36	3,870
	<b>CMU Walls, System Only</b>							<b>9,610</b>
	124.541 Labor hours							
<b>CONCRETE UNIT MASONRY</b>								<b>9,610</b>
	124.541 Labor hours							
<b>0521.0000 STEEL JOIST FRAMING</b>								
0521.1910	Open Web Joists							
n 0420	Open web joists, K series, horiz bridging, 30' to 50', average		2,320.00 lb	Lab	34,000.00000 lb/cd	0.07 cd	4,994.040	341
				Mat		2,320.00 lb	0.75	1,739
				Eqp	34,000.00000 lb/cd	0.07 cd	1,907.19	130
	<b>Open Web Joists</b>							<b>2,210</b>
	5.46 Labor hours							
	1.64 Equipment hours							

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>STEEL JOIST FRAMING</b>								<b>2,210</b>
	5.46	Labor hours						
	1.64	Equipment hours						
<b>0531.0000 STEEL DECKING</b>								
<b>0531.2350</b>	<b>Roof Decking</b>							
n 2400	Metal decking, stl, open, W rib, galv, over 500 Sq, 1.5"D, 22 ga		840.00 sf		5,100.00000 sf/cd	0.16 cd	2,116.59	349
						840.00 sf	1.32	1,108
						0.16 cd	127.36	21
	<b>Roof Decking</b>							<b>1,478</b>
	5.271	Labor hours						
	1.32	Equipment hours						
<b>STEEL DECKING</b>								<b>1,478</b>
	5.271	Labor hours						
	1.32	Equipment hours						
<b>0611.0000 WOOD FRAMING</b>								
<b>0611.1024</b>	<b>Miscellaneous Framing</b>							
n 8700	Wood framing, miscellaneous, nailers, treated, stl construction, 2"x8"		0.16 mbf		0.87000 mbf/cd	0.18 cd	813.452	150
						0.16 mbf	612.11	98
	<b>Miscellaneous Framing</b>							<b>248</b>
	2.943	Labor hours						
<b>WOOD FRAMING</b>								<b>248</b>
	2.943	Labor hours						
<b>0722.0000 ROOF &amp; DECK INSULATION</b>								
<b>0722.1610</b>	<b>Roof Deck Insulation</b>							
n 2440	Roof Deck Insulation, composites with perlite, 1" thick		800.00 sf		800.00000 sf/cd	1.00 cd	383.540	384
						800.00 sf	1.034	828
	<b>Roof Deck Insulation</b>							<b>1,211</b>
	8.00	Labor hours						
<b>ROOF &amp; DECK INSULATION</b>								<b>1,211</b>
	8.00	Labor hours						
<b>0726.0000 VAPOR RETARDERS</b>								
<b>0726.1010</b>	<b>Vapor Retarders</b>							
n 0900	Building Paper, PE vapor barrier, std, .006"thk, 9' x 400' roll		8.00 sq		37.00000 sq/cd	0.22 cd	406.73	88
						8.00 sq	3.824	31

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>Vapor Retarders</b>								<b>119</b>
	1.73 Labor hours							
<b>VAPOR RETARDERS</b>								<b>119</b>
	1.73 Labor hours							
<b>0751.0000 BUILT-UP BITUM ROOFING</b>								
<b>0751.1320 Built-Up Roofing</b>								
n 0200	BUR, asph flood ct w/grvl surf, base sheet, 3 plies #15 felt, mppd		8.00 sq	Lab	22.00000 sq/cd	0.36 cd	2,507.843	912
				Mat		8.00 sq	93.48	748
				Eqp	22.00000 sq/cd	0.36 cd	417.560	152
<b>Built-Up Roofing</b>								<b>1,812</b>
	20.364 Labor hours							
	8.73 Equipment hours							
<b>0751.1330 Cants</b>								
n 0012	Cants, treated lumber, cut diagonally, 4" x 4"		120.00 lf	Lab	325.00000 lf/cd	0.37 cd	383.540	142
				Mat		120.00 lf	1.803	216
<b>Cants</b>								<b>358</b>
	2.954 Labor hours							
<b>BUILT-UP BITUM ROOFING</b>								<b>2,170</b>
	23.32 Labor hours							
	8.73 Equipment hours							
<b>0753.0000 ELSTMRC MEMBRANE ROOFING</b>								
<b>0753.1610 CPE Roofing</b>								
n 1100	Single-Ply Membrane, CSPE, .029PSF, loose laid & ballasted, 45mils		1.20 sq	Lab	51.00000 sq/cd	0.02 cd	1,740.762	41
				Mat		1.20 sq	192.65	231
				Eqp	51.00000 sq/cd	0.02 cd	164.37	4
<b>CPE Roofing</b>								<b>276</b>
	0.941 Labor hours							
	0.19 Equipment hours							
<b>ELSTMRC MEMBRANE ROOFING</b>								<b>276</b>
	0.941 Labor hours							
	0.19 Equipment hours							
<b>0771.0000 ROOF SPECIALTIES</b>								
<b>0771.1910 Gravel Stop</b>								
n 0020	Aluminum gravel stops, mill finish, .050" thick, 4" face height		120.00 lf	Lab	145.00000 lf/cd	0.83 cd	458.321	379
				Mat		120.00 lf	5.694	683
n 0350	Aluminum gravel stops, duranodic finish, .050" thick, 6" face height		120.00 lf	Lab	135.00000 lf/cd	0.89 cd	458.321	407
				Mat		120.00 lf	6.60	791

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
	<b>Gravel Stop</b>							<b>2,261</b>
	13.732 Labor hours							
<b>ROOF SPECIALTIES</b>								<b>2,261</b>
	13.732 Labor hours							
<b>0812.0000 METAL FRAMES</b>								
<b>0812.1313</b>	<b>Std Hollow Metal Frames</b>							
n 1000	Frames, stl, knock down, sgl, 16 ga, up to 4-7/8"D, 7'-0"h x 3'-0"w		1.00 ea	Lab	16.00000 ea/cd	0.06 cd	813.452	51
				Mat		1.00 ea	155.64	156
n 1000	Frames, stl, knock down, sgl, 16 ga, up to 4-7/8"D, 7'-0"h x 3'-0"w		2.00 ea	Lab	16.00000 ea/cd	0.13 cd	813.452	102
				Mat		2.00 ea	155.64	311
	<b>Std Hollow Metal Frames</b>							<b>619</b>
	3.00 Labor hours							
<b>METAL FRAMES</b>								<b>619</b>
	3.00 Labor hours							
<b>0813.0000 METAL DOORS</b>								
<b>0813.1313</b>	<b>Std Hollow Mtl Doors</b>							
n 1120	Doors, comm, stl, flush, fl pnl, hlw cr, 18 ga, 3'-0"x7'-0"x1.75"thk		1.00 ea	Lab	17.00000 ea/cd	0.06 cd	813.452	48
				Mat		1.00 ea	564.66	565
n 1120	Doors, comm, stl, flush, fl pnl, hlw cr, 18 ga, 3'-0"x7'-0"x1.75"thk		2.00 ea	Lab	17.00000 ea/cd	0.12 cd	813.452	96
				Mat		2.00 ea	564.66	1,129
	<b>Std Hollow Mtl Doors</b>							<b>1,838</b>
	2.823 Labor hours							
<b>METAL DOORS</b>								<b>1,838</b>
	2.823 Labor hours							
<b>0836.0000 PANEL DOORS</b>								
<b>0836.1310</b>	<b>Overhead Commercial Doors</b>							
n 2700	Doors, overhead, comm, stock, stl, hvy dty, sect, mnl, 24ga, 12'x12'H		2.00 ea	Lab	1.50000 ea/cd	1.33 cd	813.452	1,085
				Mat		2.00 ea	1,257.43	2,515
	<b>Overhead Commercial Doors</b>							<b>3,599</b>
	21.333 Labor hours							
<b>PANEL DOORS</b>								<b>3,599</b>
	21.333 Labor hours							
<b>0871.0000 DOOR HARDWARE</b>								
<b>0871.2035</b>	<b>Panic Device</b>							
n 3000	Door hardware, panic device, narrow stile, mortise bar, exit only		1.00 ea	Lab	4.00000 ea/cd	0.25 cd	406.73	102
				Mat		1.00 ea	559.910	560



Item	Description	Location	Takeoff Qty		W%	Conversion	Order Qty	Unit Price	Amount
<b>0991.0000 PAINTING</b>									
<b>0991.1320 Painting</b>									
n	1200	Paints & Coatings, ext., door & frame, 1 side, flush, 1 coat, 3' x 7'	1.00	ea	Lab	17.00000 ea/cd	0.06 cd	344.21	20
					Mat		1.00 ea	1.841	2
n	1200	Paints & Coatings, ext., door & frame, 1 side, flush, 1 coat, 3' x 7'	2.00	ea	Lab	17.00000 ea/cd	0.12 cd	344.21	40
					Mat		2.00 ea	1.841	4
n	5500	Paints & Coatings, masonry/conc., block brush, primer + 2 coats latex	1,152.00	sf	Lab	335.00000 sf/cd	3.44 cd	344.21	1,184
					Mat		1,152.00 sf	0.351	405
n	5700	Paints & Coatings, masonry or concrete, if filler is needed, add	1,152.00	sf	Lab	390.00000 sf/cd	2.95 cd	344.21	1,017
					Mat		1,152.00 sf	0.20	230
		<b>Painting</b>							<b>2,901</b>
		52.553 Labor hours							
<b>PAINTING</b>									<b>2,901</b>
		52.553 Labor hours							
<b>2105.0000 COMM WORK RES FIRE SUPPR</b>									
<b>2105.2350 Gen-Duty Viv Water Fire S</b>									
n	6260	Sprnkrl Sys Viv Alarm, 3", rtrd chmbr, trim, gas/alarm line strnr	0.12	ea	Lab	3.00000 ea/cd	0.04 cd	816.391	33
					Mat		0.12 ea	1,399.78	168
n	6520	Sprnkrl Sys Comp, vlvs, chk, swing, Cl brs ftgs, auto ball drip, 4"	0.12	ea	Lab	3.00000 ea/cd	0.04 cd	816.391	33
					Mat		0.12 ea	280.904	34
n	8840	Sprinkler System Components, vlvs, flow ctrl, 4"size, incl trim & ga	0.12	ea	Lab	2.79995 ea/cd	0.04 cd	1,728.41	74
					Mat		0.12 ea	4,934.800	592
		<b>Gen-Duty Viv Water Fire S</b>							<b>933</b>
		2.651 Labor hours							
<b>COMM WORK RES FIRE SUPPR</b>									<b>933</b>
		2.651 Labor hours							
<b>2111.0000 FIRE SUPPR WATER SERV PPP</b>									
<b>2111.1950 Fire-Department Conn</b>									
n	7160	Standpipe conns, wall, w/plugs & chains, sgl, fish, brs, 2.5"x2.5"	0.12	ea	Lab	5.00000 ea/cd	0.02 cd	816.391	20
					Mat		0.12 ea	136.66	16
		<b>Fire-Department Conn</b>							<b>36</b>
		0.384 Labor hours							
<b>FIRE SUPPR WATER SERV PPP</b>									<b>36</b>
		0.384 Labor hours							
<b>2113.0000 SPRINKLER SYSTEMS</b>									

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>2113.1350</b>	<b>Wet-Pipe Sprinkler System</b>							
n 1220	Sprinkler System Components, alarm, water motor, complete with gong		0.12 ea	Lab Mat	4.00000 ea/cd	0.03 cd 0.12 ea	453.652 351.130	14 42
n 3720	Sprinkler Sys Cmpnts, PUR SH, brs, 135-286 F, .5"NPT, .375"orf, no pp		4.80 ea	Lab Mat	16.00000 ea/cd	0.30 cd 4.80 ea	453.652 13.144	136 63
	<b>Wet-Pipe Sprinkler System</b>							<b>255</b>
	2.64 Labor hours							
<b>SPRINKLER SYSTEMS</b>								<b>255</b>
	2.64 Labor hours							
<b>2205.2300</b>	<b>GEN-DUTY VALVES PLUMBING</b>							
<b>2205.2320</b>	<b>Valves, Bronze</b>							
n 1110	Valves, bronze, angle, rising stem, threaded, 150 lb., 2"		0.12 ea	Lab Mat	11.00000 ea/cd	0.01 cd 0.12 ea	459.31 635.830	5 76
n 1910	Valves, brz, chk, swing, regrinding disc, thrd., class 150, 2.5"		0.12 ea	Lab Mat	15.00000 ea/cd	0.01 cd 0.12 ea	826.754 678.54	7 81
n 3450	Valves, bronze, gate, non-rising stem, threaded, class 150, 1"		0.12 ea	Lab Mat	19.00000 ea/cd	0.01 cd 0.12 ea	459.31 94.43	3 11
	<b>Valves, Bronze</b>							<b>184</b>
	0.27 Labor hours							
<b>GEN-DUTY VALVES PLUMBING</b>								<b>184</b>
	0.27 Labor hours							
<b>2207.0000</b>	<b>PLUMBING INSULATION</b>							
<b>2207.1910</b>	<b>Piping Insulation</b>							
n 5160	Insul, pipe covering, cal sil, 1"wall, 1.5"iron pipe, incl cover		97.60 lf	Lab Mat	165.00000 lf/cd	0.59 cd 97.60 lf	787.662 3.18	466 310
n 5190	Insul., pipe covering, cal sil, 1"wall, 3"iron pipe, incl cover		11.20 lf	Lab Mat	150.00000 lf/cd	0.07 cd 11.20 lf	787.662 4.195	59 47
	<b>Piping Insulation</b>							<b>882</b>
	10.66 Labor hours							
<b>PLUMBING INSULATION</b>								<b>882</b>
	10.66 Labor hours							
<b>2211.0000</b>	<b>FACIL WATER DISTRIBUTION</b>							
<b>2211.1344</b>	<b>Pipe, Steel</b>							
n 0580	Pipe, b-stl, thrd, 1"D, sch40, Spec A-53, incl cplg/clvs hgr, 10'OC		19.20 lf	Lab Mat	53.00000 lf/cd	0.36 cd 19.20 lf	459.31 4.84	166 93

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>2211.1344</b>	<b>Pipe, Steel</b>							
n 0590	Pipe, b-stl, thrd, 1.25"D, sch40, Spec A-53, inccplg/clvs hgr, 10' OC		9.60 lf	Lab Mat	89.00000 lf/cd	0.11 cd 9.60 lf	826.754 5.98	89 57
n 0600	Pipe, b-stl, thrd, 1.5"D, sch40, Spec A-53, incl cplg/clvs hgr, 10' OC		97.600 lf	Lab Mat	80.00000 lf/cd	1.22 cd 97.60 lf	826.754 9.02	1,009 880
n 0600	Pipe, b-stl, thrd, 1.5"D, sch40, Spec A-53, incl cplg/clvs hgr, 10' OC		11.76 lf	Lab Mat	80.00000 lf/cd	0.15 cd 11.76 lf	826.754 9.02	122 106
n 0610	Pipe, b-stl, thrd, 2"D, sch40, Spec A-53, incl cplg/clvs hgr, 10' OC		3.12 lf	Lab Mat	64.00000 lf/cd	0.05 cd 3.12 lf	826.754 9.300	40 29
n 0620	Pipe, b-stl, thrd, 2.5"D, sch40, Spec A-53, incl cplg/clvs hgr, 10' OC		4.68 lf	Lab Mat	50.00000 lf/cd	0.09 cd 4.68 lf	826.754 14.52	77 68
n 1400	Pipe, stl, glv, thrd, 4", sch40, Spec A-53, cplg/clvs hgr, 10' OC		94.20 lf	Lab Mat	36.00000 lf/cd	2.62 cd 94.20 lf	826.754 38.91	2,163 3,665
n 1400	Pipe, stl, glv, thrd, 4", sch40, Spec A-53, cplg/clvs hgr, 10' OC		18.84 lf	Lab Mat	36.00000 lf/cd	0.52 cd 18.84 lf	826.754 38.91	433 733
n 2090	Pipe, b-stl, wld, 3"D, sch40, Spec A-53, yoke/roll hgrs, 10' OC		11.20 lf	Lab Mat Eqp	43.00000 lf/cd	0.26 cd 11.20 lf	826.754 16.323	215 183
n 3360	Pipe, b-stl, flg, WN, 150lb, 4"D, sch40, A-53, yk/rf hgr, 10' OC		1.20 lf	Lab Mat Eqp	43.00000 lf/cd 26.00000 lf/cd 26.00000 lf/cd	0.26 cd 0.05 cd 1.20 lf 0.05 cd	52.840 826.754 30.843 52.840	14 38 37 2
	<b>Pipe, Steel</b>							<b>10,220</b>
	83.92 Labor hours							
	2.453 Equipment hours							
<b>2211.1345</b>	<b>Pipe, Steel, Fitting Thrd</b>							
n 0840	Elbow, 90 Deg., stl, Cl, galv, straight, thrd., std weight, 4"		9.42 ea	Lab Mat	6.00000 ea/cd	1.57 cd 9.42 ea	826.754 289.45	1,298 2,727
n 5100	Elbow, 90 Deg., stl, MI, blk, straight, thrd., 150 lb., 1"		0.96 ea	Lab Mat	13.00000 ea/cd	0.07 cd 0.96 ea	459.31 5.741	34 6
n 5120	Elbow, 90 Deg, stl, MI, blk, straight, thrd, 150lb, 1.5"		0.24 ea	Lab Mat	20.00000 ea/cd	0.01 cd 0.24 ea	826.754 12.48	10 3
n 5510	Tee, steel, malleable iron, black, straight, threaded, 150 lb., 1"		0.96 ea	Lab Mat	8.00000 ea/cd	0.12 cd 0.96 ea	459.31 9.02	55 9
n 5520	Tee, steel, malleable iron, black, straight, threaded, 150 lb., 1-1/4"		0.96 ea	Lab Mat	14.00000 ea/cd	0.07 cd 0.96 ea	826.754 14.615	57 14
n 5530	Tee, steel, malleable iron, black, straight, threaded, 150 lb., 1-1/2"		1.92 ea	Lab Mat	13.00000 ea/cd	0.15 cd 1.92 ea	826.754 18.13	122 35
n 5540	Tee, steel, malleable iron, black, straight, threaded, 150 lb., 2"		0.24 ea	Lab Mat	11.00000 ea/cd	0.02 cd 0.24 ea	826.754 30.843	18 7
n 5550	Tee, steel, malleable iron, black, straight, threaded, 150 lb., 2-1/2"		0.48 ea	Lab Mat	9.00000 ea/cd	0.05 cd 0.48 ea	826.754 66.905	44 32
	<b>Pipe, Steel, Fitting Thrd</b>							<b>4,470</b>
	31.525 Labor hours							
<b>2211.1347</b>	<b>Pipe, Stl, Fittings</b>							
n 0400	Tee, b-stl, Cl, straight, flg, 4"pp, lbr, add mat 1 gskt&bl/jnt		0.48 ea	Lab Mat	5.00000 ea/cd	0.10 cd 0.48 ea	826.754 455.520	79 219

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
	<b>Pipe, Stl, Fittings</b>							<b>298</b>
	1.54 Labor hours							
<b>FACIL WATER DISTRIBUTION</b>								<b>14,988</b>
	116.98 Labor hours							
	2.453 Equipment hours							
<b>2214.0000 FACIL STORM DRAINAGE</b>								
<b>2214.2613</b>	<b>Roof Drains</b>							
n 3900	Drain, roof, flat metal deck, CI body, 12"CI dome, 4"pipe		4.71 ea	Lab	13.00000 ea/cd	0.36 cd	826.754	300
				Mat		4.71 ea	346.39	1,631
	<b>Roof Drains</b>							<b>1,931</b>
	5.80 Labor hours							
<b>FACIL STORM DRAINAGE</b>								<b>1,931</b>
	5.80 Labor hours							
<b>2605.1900 LOW-VOLTAGE CONDUTORS</b>								
<b>2605.1990</b>	<b>Wire</b>							
n 0030	Wire, copper solid, 600 volt, #12, type THW, in raceway		3.60 clf	Lab	11.00000 clf/cd	0.33 cd	438.18	143
				Mat		3.60 clf	11.82	43
n 0300	Wire, copper, stranded, 600 volt, 3/0, type THW, in raceway		0.90 clf	Lab	5.00000 clf/cd	0.18 cd	876.36	158
				Mat		0.90 clf	370.110	333
n 0300	Wire, copper, stranded, 600 volt, 3/0, type THW, in raceway		1.20 clf	Lab	5.00000 clf/cd	0.24 cd	876.36	210
				Mat		1.20 clf	370.110	444
n 0920	Wire, copper, solid, 600 volt, #14, type THWN-THHN, in raceway		0.32 clf	Lab	13.00000 clf/cd	0.02 cd	438.18	11
				Mat		0.32 clf	7.83	3
n 0940	Wire, copper, solid, 600 volt, #12, type THWN-THHN, in raceway		2.97 clf	Lab	11.00000 clf/cd	0.27 cd	438.18	118
				Mat		2.97 clf	11.82	35
n 0940	Wire, copper, solid, 600 volt, #12, type THWN-THHN, in raceway		0.46 clf	Lab	11.00000 clf/cd	0.04 cd	438.18	18
				Mat		0.46 clf	11.82	5
	<b>Wire</b>							<b>1,521</b>
	12.03 Labor hours							
<b>LOW-VOLTAGE CONDUTORS</b>								<b>1,521</b>
	12.03 Labor hours							
<b>2605.2600 GROUNDING &amp; BONDING</b>								
<b>2605.2680</b>	<b>Grounding</b>							
n 0050	Grounding rod, copper clad, 8' long, 3/4" diameter		1.00 ea	Lab	5.30000 ea/cd	0.19 cd	438.18	83
				Mat		1.00 ea	31.792	32
n 0250	Ground clamp, bronze, 3/4" diameter		1.00 ea	Lab	32.00000 ea/cd	0.03 cd	438.18	14
				Mat		1.00 ea	7.023	7
n 0280	Ground wire, ground bare armored, #4-1 conductor		0.20 clf	Lab	1.60000 clf/cd	0.13 cd	438.18	55
				Mat		0.20 clf	163.23	33

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>Grounding</b>								<b>223</b>
	2.76 Labor hours							
<b>GROUNDING &amp; BONDING</b>								<b>223</b>
	2.76 Labor hours							
<hr/>								
<b>2605.3300</b>	<b>CONDUIT &amp; TUBING</b>							
<b>2605.3305</b>	<b>Conduit</b>							
n 1870	Rig galv stl cond, 2'dia, to 15' H, 2T, 2 elb/11/100 LF		30.00 lf	Lab Mat	45.00000 lf/cd	0.67 cd 30.00 lf	438.18 8.78	292 263
n 2500	Intrmdt mtl cond, .5'dia, to 15'H, 2T, 2 elb/11 bm clmp per 100LF		148.00 lf	Lab Mat	100.00000 lf/cd	1.48 cd 148.00 lf	438.18 1.94	649 286
n 2500	Intrmdt mtl cond, .5'dia, to 15'H, 2T, 2 elb/11 bm clmp per 100LF		23.20 lf	Lab Mat	100.00000 lf/cd	0.23 cd 23.20 lf	438.18 1.94	102 45
n 2500	Intrmdt mtl cond, .5'dia, to 15'H, 2T, 2 elb/11 bm clmp per 100LF		153.60 lf	Lab Mat	100.00000 lf/cd	1.54 cd 153.60 lf	438.18 1.94	673 297
n 2500	Intrmdt mtl cond, .5'dia, to 15'H, 2T, 2 elb/11 bm clmp per 100LF		8.00 lf	Lab Mat	100.00000 lf/cd	0.08 cd 8.00 lf	438.18 1.94	35 15
n 2630	Intrmdt mtl cond, 2'dia, to 15'H, 2T, 2 elb/11 bm clmps per 100LF		20.00 lf	Lab Mat	50.00000 lf/cd	0.40 cd 20.00 lf	438.18 6.55	175 131
<b>Conduit</b>								<b>2,964</b>
	35.16 Labor hours							
<b>2605.3325</b>	<b>Cnd Fit For Rgd Glv Steel</b>							
n 2370	Conduit fittings for RGS, LB, LR or LL fittings & covers, 2" diameter		1.00 ea	Lab Mat	5.00000 ea/cd	0.20 cd 1.00 ea	438.18 53.62	88 54
n 5380	Service entrance cap, 2" diameter		1.00 ea	Lab Mat	5.50000 ea/cd	0.18 cd 1.00 ea	438.18 40.81	80 41
<b>Cnd Fit For Rgd Glv Steel</b>								<b>262</b>
	3.055 Labor hours							
<b>2605.3350</b>	<b>Outlet Boxes</b>							
n 0150	Outlet boxes, pressed steel, 4" square		3.20 ea	Lab Mat	20.00000 ea/cd	0.16 cd 3.20 ea	438.18 2.26	70 7
n 0300	Outlet boxes, pressed steel, plaster rings, 4" square, concealed		3.20 ea	Lab Mat	64.00000 ea/cd	0.05 cd 3.20 ea	438.18 2.693	22 9
n 0950	Outlet boxes, pressed steel, concrete, set flush, 4" deep		6.00 ea	Lab Mat	20.00000 ea/cd	0.30 cd 6.00 ea	438.18 14.05	131 84
n 1000	Outlet boxes, pressed steel, concrete, plate, incl 3/8" stud		6.00 ea	Lab Mat	80.00000 ea/cd	0.08 cd 6.00 ea	438.18 5.694	33 34
<b>Outlet Boxes</b>								<b>391</b>
	4.68 Labor hours							
<b>CONDUIT &amp; TUBING</b>								<b>3,616</b>
	42.892 Labor hours							
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<b>2624.0000</b>	<b>SWITCHBOARDS/PANELBOARDS</b>							

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
2624.1630	Panelboards Comm App							
n 2300	Pnlbrds, NQOD, 4W, 120/208 volts, 400 amp main, 42 circ, 20A 1P brkrs		0.03 ea	Lab Mat	0.47999 ea/cd	0.05 cd 0.03 ea	876.36 3,036.800	46 76
	<b>Panelboards Comm App</b>							<b>122</b>
	0.833 Labor hours							

**SWITCHBOARDS/PANELBOARDS**

0.833 Labor hours

**122**

**2627.0000 LOW-VOLTAGE DISTRIB EQP**

2627.1310	Meter Centers & Sockets							
n 0300	Meter socket, single position, 4 terminal, 200 A		1.00 ea	Lab Mat	1.89997 ea/cd	0.53 cd 1.00 ea	438.18 79.72	231 80
	<b>Meter Centers &amp; Sockets</b>							<b>310</b>
	4.211 Labor hours							

2627.2620	Wiring Devices Elements							
n 2460	Duplex receptacle, grounded, 120 volt, 15 amp		3.20 ea	Lab Mat	40.00000 ea/cd	0.08 cd 3.20 ea	438.18 1.16	35 4
n 3110	Wall plate, brown plastic, 1 gang		3.20 ea	Lab Mat	80.00000 ea/cd	0.04 cd 3.20 ea	438.18 0.361	18 1
	<b>Wiring Devices Elements</b>							<b>57</b>
	0.96 Labor hours							

**LOW-VOLTAGE DISTRIB EQP**

5.171 Labor hours

**368**

**2628.0000 LOW-VOLTAGE CIRC PROT DEV**

2628.1310	Fuse Elements							
n 0200	Fuses, cartridge, 250 V, 200 amp		3.00 ea	Lab Mat	36.00000 ea/cd	0.08 cd 3.00 ea	438.18 31.32	37 94
	<b>Fuse Elements</b>							<b>130</b>
	0.67 Labor hours							

2628.1620	Safety Switches							
n 3500	Safety switches, HD, 3 pole, nonfusable, 240V, 200A, NEMA 1		1.00 ea	Lab Mat	1.29999 ea/cd	0.77 cd 1.00 ea	438.18 711.750	337 712
	<b>Safety Switches</b>							<b>1,049</b>
	6.154 Labor hours							

**LOW-VOLTAGE CIRC PROT DEV**

6.821 Labor hours

**1,179**

**2651.0000 INTERIOR LIGHTING**

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
2651.1350	<b>Interior Lighting Fixture</b>							
n 0600	Fluor fxt, int., acryl lens, GRCM/A cbl, 4-40 W, 2' W x 4' L, HW		6.00 ea		4.69996 ea/cd	1.28 cd	438.18	559
						6.00 ea	54.093	325
	<b>Interior Lighting Fixture</b>							<b>884</b>
	10.213 Labor hours							

**INTERIOR LIGHTING**

10.213 Labor hours

**884**

**2831.0000 FIRE DETECTION/ALARM**

**2831.2350 Alarm Panels And Devices**

n 5600	Detection Systems, strobe & horn, excl. wires & conduit		0.02 ea		5.30000 ea/cd	0.00 cd	438.18	1
						0.02 ea	141.401	2
n 5800	Detection Systems, fire alarm horn, excl. wires & conduit		0.12 ea		6.69996 ea/cd	0.02 cd	438.18	8
						0.12 ea	56.47	7
n 7000	Detection Systems, break glass station, excl. wires & conduit		0.02 ea		8.00000 ea/cd	0.00 cd	438.18	1
						0.02 ea	51.721	1
	<b>Alarm Panels And Devices</b>							<b>20</b>
	0.183 Labor hours							

**2831.4650 Smoke Detectors**

n 5200	Detection Systems, heat detector, smoke det, cing, excl wires & cond		0.20 ea		6.19996 ea/cd	0.03 cd	438.18	14
						0.20 ea	102.492	21
	<b>Smoke Detectors</b>							<b>35</b>
	0.26 Labor hours							

**FIRE DETECTION/ALARM**

0.442 Labor hours

**55**

**3122.0000 GRADING**

**3122.1610 Finish Grading**

n 0012	Fine grade, small area, to be paved with grader		88.00 sy		400.00000 sy/cd	0.22 cd	718.211	158
					400.00000 sy/cd	0.22 cd	522.14	115
	<b>Finish Grading</b>							<b>273</b>
	3.52 Labor hours							
	1.76 Equipment hours							

**GRADING**

3.52 Labor hours

1.76 Equipment hours

**273**

**3123.0000 EXCAVATION & FILL**

3123.1614 Excavating,Utility Trench

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>3123.1614</b>	<b>Excavating,Utility Trench</b>							
n 0700	Excav, utility trnch, cmn earth, 12HP, 8"W, 24"D, chn trnchr, op wkng		20.00 lf	Lab Eqp	350.00000 lf/cd 350.00000 lf/cd	0.06 cd 0.06 cd	374.44 56.560	21 3
n 1700	Excav., utility trench, common earth, 8"W, 24"D, bkfl by hand, add		20.00 lf	Lab Eqp	200.00000 lf/cd 200.00000 lf/cd	0.10 cd 0.10 cd	321.72 41.19	32 4
	<b>Excavating,Utility Trench</b>							<b>61</b>
	1.26 Labor hours							
	1.26 Equipment hours							
<b>3123.1642</b>	<b>Excvtng,Bulk Bank Measure</b>							
n 1250	Excav, bulk bnk measure, 2.5 CY cap=95 CY/hr, frnt end ldr, trk mntd		24.00 cy	Lab Eqp	760.00000 cy/cd 760.00000 cy/cd	0.03 cd 0.03 cd	557.351 728.263	18 23
n 3850	Excav., bulk bank measure, 1.5 C.Y. cap. = 160 C.Y./hour, shovel		12.00 cy	Lab Eqp	1,280.00000 cy/cd 1,280.00000 cy/cd	0.01 cd 0.01 cd	729.720 1,071.611	7 10
	<b>Excvtng,Bulk Bank Measure</b>							<b>57</b>
	0.53 Labor hours							
	0.403 Equipment hours							
<b>3123.2313</b>	<b>Backfill, General</b>							
n 2200	Backfill, trench, 6"to 12"lifts, dozer bkflng, compaction w/vbrtng rlr		35.20 cy	Lab Eqp	700.00000 cy/cd 700.00000 cy/cd	0.05 cd 0.05 cd	557.351 1,416.67	28 71
	<b>Backfill, General</b>							<b>99</b>
	0.603 Labor hours							
	0.81 Equipment hours							
<b>3123.2317</b>	<b>General Fill</b>							
n 0500	Fill, gravel fill, compacted, under floor slabs, 4" deep		800.00 sf	Lab Mat Eqp	10,000.00000 sf/cd	0.08 cd 800.00 sf 0.08 cd	2,003.392 0.40 130.772	160 319 10
	<b>General Fill</b>							<b>490</b>
	3.84 Labor hours							
	0.64 Equipment hours							
<b>3123.2320</b>	<b>Hauling</b>							
n 1020	Hauling, 12 CY truck, cycle 4 miles, 15 MPH ave, 15 min. wait/Ld./Uld.		5.60 cy	Lab Eqp	180.00000 cy/cd 180.00000 cy/cd	0.03 cd 0.03 cd	322.372 505.82	10 16
	<b>Hauling</b>							<b>26</b>
	0.25 Labor hours							
	0.25 Equipment hours							
<b>EXCAVATION &amp; FILL</b>								<b>733</b>
	6.48 Labor hours							
	3.354 Equipment hours							

## Estimate Totals

Description	Amount	Totals	Hours	Rate	Cost Basis	Cost per Unit	Percent of Total
Labor	32,961		##### hrs				25.78%
Material	38,358						30.00%
Subcontract							
Equipment	609		##### hrs				0.48%
Other							
	71,928	#####					56.26 ###
Preservation Factor					T		
Contingency (Std 20%)	14,386			#### %	T		11.25%
Administrative (15%)	12,947			#### %	T		10.13%
Allocated Addons	27,333	#####					21.38 ###
Overhead (Standard 15%)	14,889			#### %	T		11.65%
Profit (Standard 12%)	13,698			#### %	T		10.71%
Services Cost	28,587	#####					22.36 ###
Total		#####					

**PROJECT: Construct Paleontological Lab for Visitor Enjoyment**

<b>Project name</b>	Template
<b>Estimator</b>	KLTHOMPSON
<b>Labor rate table</b>	LAB-2013-Burd/WC
<b>Equipment rate table</b>	EQP-2013
<b>Bid date</b>	12/18/2012 3:08 PM
<b>Location/Asset No</b>	20479
<b>Work Order No</b>	11386606
<b>Revision No</b>	00
<b>Park Alpha Code</b>	BADL
<b>Work Order Type</b>	CI
<b>Database</b>	CESSDATA12
<b>Pricing Date</b>	1/1/2012
<b>WorkSubType</b>	NC
<b>Definable field 15</b>	P065
<b>Status</b>	EXPORTED
<b>Report format</b>	Sorted by 'Group phase/Phase' 'Detail' summary
<b>Cost index</b>	BADL

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>0110.0000 SUMMARY</b>								
0110.0001	Summary							
0000	NPS CESS Data Update 2013; Prices as of 1/1/2013; Revision 0 Release 3			Oth			ver	
----	NPS CESS Template 2012 Rel 1			Oth			ver	

**SUMMARY**

**0**

**0756.0000 FLUID-APPLIED ROOFING**

0756.1010	Elastomeric Roofing							
n 1500	Elastomeric Roofing, vinyl and neoprene membrane traffic deck		1,200.00 sf	Lab	1,550.00000 sf/cd	0.77 cd	2,703.071	2,093
				Mat		1,200.00 sf	1.68	2,016
				Eqp	1,550.00000 sf/cd	0.77 cd	429.52	333
								<b>4,441</b>
	Elastomeric Roofing							
	43.36 Labor hours							
	18.581 Equipment hours							

**FLUID-APPLIED ROOFING**

**4,441**

43.36 Labor hours  
18.581 Equipment hours

**0812.0000 METAL FRAMES**

0812.1313	Std Hollow Metal Frames							
n 5400	Frms, stl, knck dwn, "B"lbl, sgl, 14ga, up to 5.75"D, 7'-0"h x 4'-0"w		2.00 ea	Lab	15.00000 ea/cd	0.13 cd	889.92	119
				Mat		2.00 ea	194.55	389
n 5440	Frames, stl, knck dwn, "B"lbl, dbl, 14G, <5.75"dp, 7'-0"h x 8'-0"w, dbl		1.00 ea	Lab	12.00000 ea/cd	0.08 cd	889.92	74
				Mat		1.00 ea	254.332	254
	Std Hollow Metal Frames							<b>836</b>
	3.47 Labor hours							

**METAL FRAMES**

**836**

3.47 Labor hours

**0813.0000 METAL DOORS**

0813.1315	Metal Fire Doors							
n 0580	Doors, fire, flush, "B"label, 90 min, composite, 20 ga, 3'-0"x 7'-0"		2.00 ea	Lab	16.00000 ea/cd	0.13 cd	889.92	111
				Mat		2.00 ea	650.07	1,300
n 0700	Doors, fire, flush, "A"label, 3 hr, composite, 18 ga., 4'-0"x 7'-0"		2.00 ea	Lab	14.00000 ea/cd	0.14 cd	889.92	127
				Mat		2.00 ea	839.87	1,680
	Metal Fire Doors							<b>3,218</b>
	4.29 Labor hours							

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>METAL DOORS</b>								<b>3,218</b>
	4.29	Labor hours						
<b>0871.0000 DOOR HARDWARE</b>								
<b>0871.2010</b>	<b>Bolts, Flush</b>							
n 0020	Door hardware, bolts, flush, standard, concealed		1.00 ea	Lab Mat	7.00000 ea/cd	0.14 cd 1.00 ea	444.96 21.83	64 22
	<b>Bolts, Flush</b>							<b>85</b>
	1.143	Labor hours						
<b>0871.2035</b>	<b>Panic Device</b>							
n 3000	Door hardware, panic device, narrow stile, mortise bar, exit only		2.00 ea	Lab Mat	4.00000 ea/cd	0.50 cd 2.00 ea	444.96 559.910	222 1,120
	<b>Panic Device</b>							<b>1,342</b>
	4.00	Labor hours						
<b>0871.2040</b>	<b>Lockset</b>							
n 0400	Door hrdwr, lkst, std dty, cyl, w/sect trim, keyed, sgl cyl function		1.00 ea	Lab Mat	10.00000 ea/cd	0.10 cd 1.00 ea	444.96 101.543	45 102
n 0400	Door hrdwr, lkst, std dty, cyl, w/sect trim, keyed, sgl cyl function		2.00 ea	Lab Mat	10.00000 ea/cd	0.20 cd 2.00 ea	444.96 101.543	89 203
	<b>Lockset</b>							<b>438</b>
	2.40	Labor hours						
<b>0871.2065</b>	<b>Threshold</b>							
n 0011	Thresholds, aluminum, 3' long door saddles		2.40 lf	Lab Mat	48.00000 lf/cd	0.05 cd 2.40 lf	444.96 6.311	22 15
	<b>Threshold</b>							<b>37</b>
	0.40	Labor hours						
<b>0871.2090</b>	<b>Hinges</b>							
n 0012	Door hardware, hngs, full mrts, avg freq, stl base, USP, 4.5"x4.5"		3.00 pr	Mat		3.00 pr	24.674	74
n 1430	Door hrdwr, hinges, fl mrts, H freq, brs base, US10, 4.5"x4.5"		3.00 pr	Mat		3.00 pr	66.905	201
	<b>Hinges</b>							<b>275</b>
<b>DOOR HARDWARE</b>								<b>2,178</b>
	7.943	Labor hours						
<b>0922.0000 SPPT FOR PLAST/GYP BOARD</b>								
<b>0922.1613</b>	<b>Non-Struct Mtl Stud Frmng</b>							
n 2700	Mtl stud prtn, non-ld brng, galv, 10' H, 2.5"W, 20 ga, 16"OC, inc trk		1,760.00 sf	Lab Mat	390.00000 sf/cd	4.51 cd 1,760.00 sf	444.96 0.42	2,008 735

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>Non-Struct Mtl Stud Frmng</b>								2,743
	36.103 Labor hours							
<b>SPPT FOR PLAST/GYP BOARD</b>								2,743
	36.103 Labor hours							
<b>0929.0000 GYPSUM BOARD</b>								
<b>0929.1020 Taping And Finishing</b>								
n 3600	Gypsum Board, for taping & finishing joints, add		3,520.00 sf	Lab Mat	2,000.00000 sf/cd	1.76 cd 3,520.00 sf	889.92 0.05	1,566 165
	<b>Taping And Finishing</b>							1,732
	28.16 Labor hours							
<b>0929.1030 Gypsum Board</b>								
n 2100	Gypsum wallboard, on walls, fire resistant, .625"thk, finish exc.		5,280.00 sf	Lab Mat	2,000.00000 sf/cd	2.64 cd 5,280.00 sf	889.92 0.28	2,349 1,453
	<b>Gypsum Board</b>							3,803
	42.24 Labor hours							
<b>GYPSUM BOARD</b>								5,534
	70.40 Labor hours							
<b>0951.0000 ACOUSTICAL CEILINGS</b>								
<b>0951.2330 Suspend Ceilings,Complete</b>								
n 0800	Suspended clg,NO carr chan,mnrl fiber,15/16"Tbar susp,2'x2'x3/4"lay-in		600.00 sf	Lab Mat	345.00000 sf/cd	1.74 cd 600.00 sf	444.96 2.344	774 1,406
	<b>Suspend Ceilings,Complete</b>							2,180
	13.913 Labor hours							
<b>ACOUSTICAL CEILINGS</b>								2,180
	13.913 Labor hours							
<b>0991.0000 PAINTING</b>								
<b>0991.1320 Painting</b>								
n 1200	Paints & Coatings, ext., door & frame, 1 side, flush, 1 coat, 3' x 7'		2.00 ea	Lab Mat	17.00000 ea/cd	0.12 cd 2.00 ea	373.450 1.841	44 4
n 1200	Paints & Coatings, ext., door & frame, 1 side, flush, 1 coat, 3' x 7'		2.00 ea	Lab Mat	17.00000 ea/cd	0.12 cd 2.00 ea	373.450 1.841	44 4
	<b>Painting</b>							95
	1.882 Labor hours							
<b>PAINTING</b>								95
	1.882 Labor hours							

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>1348.0000 SOUND,VBRTN&amp;SSMC CONTROL</b>								
<b>1348.1350 Audio Masking</b>								
n 1200	Sound Absorbing Panels, fabric faced, 2'-6" x 8', over 1,000 SF		600.00 sf	Lab	240.00000 sf/cd	2.50 cd	1,334.88	3,337
				Mat		600.00 sf	9.110	5,466
n 3200	Audio Mskng Sys, cng mntd, 5K SF, incl spkrs,Alification & signal gen		600.00 sf	Lab	2,400.00000 sf/cd	0.25 cd	966.674	242
				Mat		600.00 sf	1.20	717
								<b>9,763</b>
<b>Audio Masking</b>								
	64.00 Labor hours							
<b>SOUND,VBRTN&amp;SSMC CONTROL</b>								
								<b>9,763</b>
<b>64.00 Labor hours</b>								
<b>2605.1900 LOW-VOLTAGE CONDUTORS</b>								
<b>2605.1990 Wire</b>								
n 0940	Wire, copper, solid, 600 volt, #12, type THWN-THHN, in raceway		2.03 clf	Lab	11.00000 clf/cd	0.18 cd	483.34	89
				Mat		2.03 clf	11.82	24
n 0940	Wire, copper, solid, 600 volt, #12, type THWN-THHN, in raceway		0.49 clf	Lab	11.00000 clf/cd	0.04 cd	483.34	21
				Mat		0.49 clf	11.82	6
n 0940	Wire, copper, solid, 600 volt, #12, type THWN-THHN, in raceway		7.80 clf	Lab	11.00000 clf/cd	0.71 cd	483.34	343
				Mat		7.80 clf	11.82	92
								<b>575</b>
<b>Wire</b>								
	7.503 Labor hours							
<b>LOW-VOLTAGE CONDUTORS</b>								
								<b>575</b>
<b>7.503 Labor hours</b>								
<b>2605.3300 CONDUIT &amp; TUBING</b>								
<b>2605.3313 Conduit</b>								
n 2500	Intrmdt mtl cond, .5"dia, to 15'H, 2T, 2 elb/11 bm clmp per 100LF		100.20 lf	Lab	100.00000 lf/cd	1.00 cd	483.34	484
				Mat		100.20 lf	1.73	173
n 2500	Intrmdt mtl cond, .5"dia, to 15'H, 2T, 2 elb/11 bm clmp per 100LF		23.400 lf	Lab	100.00000 lf/cd	0.23 cd	483.34	113
				Mat		23.40 lf	1.73	40
n 2500	Intrmdt mtl cond, .5"dia, to 15'H, 2T, 2 elb/11 bm clmp per 100LF		384.00 lf	Lab	100.00000 lf/cd	3.84 cd	483.34	1,856
				Mat		384.00 lf	1.73	663
								<b>3,330</b>
<b>Conduit</b>								
	40.61 Labor hours							
<b>2605.3316 Outlet Boxes</b>								
n 0150	Outlet boxes, pressed steel, 4" square		1.50 ea	Lab	20.00000 ea/cd	0.08 cd	483.34	36
				Mat		1.50 ea	2.335	4
n 0150	Outlet boxes, pressed steel, 4" square		1.50 ea	Lab	20.00000 ea/cd	0.08 cd	483.34	36
				Mat		1.50 ea	2.335	4
n 0300	Outlet boxes, pressed steel, plaster rings, 4" square, concealed		1.50 ea	Lab	64.00000 ea/cd	0.02 cd	483.34	11
				Mat		1.50 ea	3.151	5

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>2605.3316 Outlet Boxes</b>								
n 0300	Outlet boxes, pressed steel, plaster rings, 4" square, concealed		1.50 ea	Lab Mat	64.00000 ea/cd	0.02 cd 1.50 ea	483.34 3.151	11 5
n 0950	Outlet boxes, pressed steel, concrete, set flush, 4" deep		15.00 ea	Lab Mat	20.00000 ea/cd	0.75 cd 15.00 ea	483.34 16.133	363 242
n 1000	Outlet boxes, pressed steel, concrete, plate, incl 3/8" stud		15.00 ea	Lab Mat	80.00000 ea/cd	0.19 cd 15.00 ea	483.34 10.63	91 159
<b>Outlet Boxes</b>								<b>966</b>
9.08 Labor hours								

**CONDUIT & TUBING**

49.683 Labor hours

**4,296**

**2627.0000 LOW-VOLTAGE DISTRIB EQP**

<b>2627.2620 Wiring Devices Elements</b>								
n 0200	Toggle switch, quiet type, single pole, 15 amp		1.50 ea	Lab Mat	40.00000 ea/cd	0.04 cd 1.50 ea	483.34 5.172	18 8
n 2460	Duplex receptacle, grounded, 120 volt, 15 amp		1.50 ea	Lab Mat	40.00000 ea/cd	0.04 cd 1.50 ea	483.34 1.16	18 2
n 3110	Wall plate, brown plastic, 1 gang		1.50 ea	Lab Mat	80.00000 ea/cd	0.02 cd 1.50 ea	483.34 0.361	9 1
n 3110	Wall plate, brown plastic, 1 gang		1.50 ea	Lab Mat	80.00000 ea/cd	0.02 cd 1.50 ea	483.34 0.361	9 1
<b>Wiring Devices Elements</b>								<b>65</b>
0.90 Labor hours								

**LOW-VOLTAGE DISTRIB EQP**

0.90 Labor hours

**65**

**2651.0000 INTERIOR LIGHTING**

<b>2651.1350 Interior Lighting Fixture</b>								
n 0600	Fluor fxt, int., acryl lens, GRCMA cbl, 4-40 W, 2' W x 4' L, HW		15.00 ea	Lab Mat	4.70000 ea/cd	3.19 cd 15.00 ea	483.34 54.093	1,543 811
<b>Interior Lighting Fixture</b>								<b>2,354</b>
25.532 Labor hours								

**INTERIOR LIGHTING**

25.532 Labor hours

**2,354**

Estimate Totals

Description	Amount	Totals	Hours	Rate	Cost Basis	Cost per Unit	Percent of Total
Labor	18,382		328.965 hrs				27.02%
Material	19,565						28.75%
Subcontract							
Equipment	333		18.581 hrs				0.49%
Other							
	<u>38,280</u>	38,280					<u>56.26</u> ###
Historic Preservation Factor							
Design Contingency (Std 20%)	<u>7,656</u>			20.000 %	T		<u>11.25%</u>
	7,656	45,936					11.25 ###
General & Administrative (15%)	6,890			15.000 %	T		10.13%
Overhead (Standard 15%)	7,924			15.000 %	T		11.65%
Profit (Standard 12%)	<u>7,290</u>			12.000 %	T		<u>10.71%</u>
	22,104	68,040					<u>32.49</u> ###
<b>Total</b>		<b>68,040</b>					

**PROJECT: Install Dust Collector and HVAC Unit fin Paleontological Lab**

<b>Project name</b>	Template
<b>Estimator</b>	KLTHOMPSON
<b>Labor rate table</b>	LAB-2013-Burd/WC
<b>Equipment rate table</b>	EQP-2013
<b>Bid date</b>	12/18/2012 3:12 PM
<b>Location/Asset No</b>	20479
<b>Work Order No</b>	11386661
<b>Revision No</b>	00
<b>Park Alpha Code</b>	BADL
<b>Work Order Type</b>	CI
<b>Database</b>	CESSDATA12
<b>Pricing Date</b>	1/1/2012
<b>WorkSubType</b>	NC
<b>Definable field 15</b>	P065
<b>Status</b>	EXPORTED
<b>Report format</b>	Sorted by 'Group phase/Phase' 'Detail' summary
<b>Cost index</b>	BADL

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>0110.0000 SUMMARY</b>								
0110.0001	<b>Summary</b>							
0000	NPS CESS Data Update 2013; Prices as of 1/1/2013; Revision 0 Release 3			Oth		ver		
0001	General Template April 2013; Revision 0 Release 3			Oth		ver		
<b>SUMMARY</b>								<b>0</b>

**1153.0000 LABORATORY EQUIPMENT**

<b>1153.1313 Recirc Lab Fume Hoods</b>								
n 0620	Lab equip, fume hood, w/countertop & base, cmplx, incl fxts, excl HVAC		4.00 lf	Lab Mat	2.40000 lf/cd	1.67 cd 4.00 lf	889.92 1,470.950	1,483 5,884
n 0670	Laboratory equipment, fume hood, service fixtures, average		4.00 ea	Mat		4.00 ea	221.12	884
n 0680	Laboratory equip, fume hood, for sink assembly w/hot & cold water, add		4.00 ea	Lab Mat	1.40000 ea/cd	2.86 cd 4.00 ea	517.32 688.03	1,478 2,752
<b>Recirc Lab Fume Hoods</b>								<b>12,482</b>
49.524 Labor hours								
<b>1153.1323 Exhaust Hoods</b>								
n 0660	Laboratory equipment, fume hood, ductwork, maximum		4.00 hood	Lab Mat	0.50000 hood/cd	8.00 cd 4.00 hood	1,000.90 5,765.18	8,007 23,061
<b>Exhaust Hoods</b>								<b>31,068</b>
128.00 Labor hours								
<b>LABORATORY EQUIPMENT</b>								<b>43,550</b>
177.524 Labor hours								

**2605.1900 LOW-VOLTAGE CONDUTORS**

<b>2605.1990 Wire</b>								
n 0120	Wire, copper, stranded, 600 volt, #10, type THW, in raceway		20.00 clf	Lab Mat	10.00000 clf/cd	2.00 cd 20.00 clf	483.34 21.353	967 427
<b>Wire</b>								<b>1,394</b>
16.00 Labor hours								
<b>LOW-VOLTAGE CONDUTORS</b>								<b>1,394</b>
16.00 Labor hours								

**2605.3300 CONDUIT & TUBING**

2605.3313 Conduit

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
2605.3313	<b>Conduit</b>							
n 5020	EMT, .75"dia, to 15'H, incl 2 terms, 2 elbows & 11 bm clamps per 100LF		500.00 lf	Lab Mat	130.00000 lf/cd	3.85 cd 500.00 lf	483.34 0.911	1,859 456
	<b>Conduit</b>							<b>2,315</b>
	30.77 Labor hours							
<b>CONDUIT &amp; TUBING</b>								<b>2,315</b>
	30.77 Labor hours							

Estimate Totals

Description	Amount	Totals	Hours	Rate	Cost Basis	Cost per Unit	Percent of Total
Labor	13,794		224.293 hrs				16.42%
Material	33,464						39.84%
Subcontract							
Equipment							
Other							
	<u>47,258</u>	47,258					<u>56.26</u> ###
Historic Preservation Factor					T		
Design Contingency (Std 20%)	<u>9,452</u>			20.000 %	T		<u>11.25%</u>
	9,452	56,710					11.25 ###
General & Administrative (15%)	8,506			15.000 %	T		10.13%
Overhead (Standard 15%)	9,782			15.000 %	T		11.65%
Profit (Standard 12%)	<u>9,000</u>			12.000 %	T		<u>10.71%</u>
	27,288	83,998					<u>32.49</u> ###
<b>Total</b>		<b>83,998</b>					

**PROJECT: Install Air Compressor Unit in Paleontological Lab for Visito**

Project name	Template
Estimator	KLTHOMPSON
Labor rate table	LAB-2013-Burd/WC
Equipment rate table	EQP-2013
Bid date	12/18/2012 3:16 PM
Location/Asset No	20479
Work Order No	11386801
Revision No	00
Park Alpha Code	BADL
Work Order Type	CI
Database	CESSDATA12
Pricing Date	1/1/2012
WorkSubType	NC
Definable field 15	P065
Status	EXPORTED
Report format	Sorted by 'Group phase/Phase' 'Detail' summary
Cost index	BADL

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>0110.0000 SUMMARY</b>								
0110.0001	<b>Summary</b>							
0000	NPS CESS Data Update 2013; Prices as of 1/1/2013; Revision 0 Release 3			Oth		ver		
0001	General Template April 2013; Revision 0 Release 3			Oth		ver		
<b>SUMMARY</b>								<b>0</b>

**1111.0000 VEHICLE SERVICE EQUIP**

1111.1310	<b>Compressed Air Equipment</b>							
n 0600	Air compressor, automotive, electric, standard controls, 5 HP,115/230V		1.00 ea	Lab Mat	1.00000 ea/cd	1.00 cd 1.00 ea	1,242.94 1,803.100	1,243 1,803
	<b>Compressed Air Equipment</b>							<b>3,046</b>
	24.00 Labor hours							
<b>VEHICLE SERVICE EQUIP</b>								<b>3,046</b>
	24.00 Labor hours							

**2605.1900 LOW-VOLTAGE CONDUTORS**

2605.1990	<b>Wire</b>							
n 0120	Wire, copper, stranded, 600 volt, #10, type THW, in raceway		20.00 clf	Lab Mat	10.00000 clf/cd	2.00 cd 20.00 clf	483.34 21.353	967 427
	<b>Wire</b>							<b>1,394</b>
	16.00 Labor hours							
<b>LOW-VOLTAGE CONDUTORS</b>								<b>1,394</b>
	16.00 Labor hours							

**2605.3300 CONDUIT & TUBING**

2605.3313	<b>Conduit</b>							
n 5020	EMT, .75"dia, to 15'H, incl 2 terms, 2 elbows & 11 bm clamps per 100LF		500.00 lf	Lab Mat	130.00000 lf/cd	3.85 cd 500.00 lf	483.34 0.911	1,859 456
	<b>Conduit</b>							<b>2,315</b>
	30.77 Labor hours							
<b>CONDUIT &amp; TUBING</b>								<b>2,315</b>
	30.77 Labor hours							

Estimate Totals

Description	Amount	Totals	Hours	Rate	Cost Basis	Cost per Unit	Percent of Total
Labor	4,069		70.769 hrs				33.89%
Material	2,686						22.37%
Subcontract							
Equipment							
Other							
	<u>6,755</u>	6,755					<u>56.26</u> ###
Historic Preservation Factor					T		
Design Contingency (Std 20%)	<u>1,351</u>			20.000 %	T		<u>11.25%</u>
	1,351	8,106					11.25 ###
General & Administrative (15%)	1,216			15.000 %	T		10.13%
Overhead (Standard 15%)	1,398			15.000 %	T		11.65%
Profit (Standard 12%)	<u>1,286</u>			12.000 %	T		<u>10.71%</u>
	3,900	12,006					<u>32.48</u> ###
Total		12,006					

**PROJECT: Install HVAC Units**

<b>Project name</b>	Template
<b>Estimator</b>	KLTHOMPSON
<b>Labor rate table</b>	LAB-2013-Burd/WC
<b>Equipment rate table</b>	EQP-2013
<b>Bid date</b>	12/17/2012 3:53 PM
<b>Location/Asset No</b>	20479
<b>Work Order No</b>	11371240
<b>Revision No</b>	00
<b>Park Alpha Code</b>	BADL
<b>Work Order Type</b>	CI
<b>Database</b>	CESSDATA12
<b>Pricing Date</b>	1/1/2012
<b>WorkSubType</b>	NC
<b>Definable field 15</b>	P065
<b>Status</b>	EXPORTED
<b>Report format</b>	Sorted by 'Group phase/Phase' 'Detail' summary
<b>Cost index</b>	BADL

Item	Description	Location	Takeoff Qty	W%	Conversion	Order Qty	Unit Price	Amount
<b>0110.0000 SUMMARY</b>								
<b>0110.0001 Summary</b>								
0000	NPS CESS Data Update 2013; Prices as of 1/1/2013; Revision 0 Release 3			Oth		ver		
----	NPS CESS Template 2012 Rel 1			Oth		ver		
<b>SUMMARY</b>								<b>0</b>
<b>2354.0000 FURNACES</b>								
<b>2354.1613 Gas-Fired Furnaces</b>								
n 3475	Furnace, gas, high efficiency, 115 MBH, 4-5 ton cool, AC & condenser		2.00 ea	Lab Mat	3.00000 ea/cd	0.67 cd 2.00 ea	900.81 2,230.150	601 4,460
<b>Gas-Fired Furnaces</b>								<b>5,061</b>
	10.67 Labor hours							
<b>FURNACES</b>								<b>5,061</b>
	10.67 Labor hours							
<b>2373.0000 INDR CENTRAL AIR HDLG UNT</b>								
<b>2373.1320 Air Handling Units</b>								
n 1700	Central station air handling unit, packaged indoor, 20,000 CFM		1.00 ea	Lab Mat	0.31000 ea/cd	3.23 cd 1.00 ea	1,477.684 60,261.500	4,767 60,262
<b>Air Handling Units</b>								<b>65,028</b>
	77.42 Labor hours							
<b>INDR CENTRAL AIR HDLG UNT</b>								<b>65,028</b>
	77.42 Labor hours							

Estimate Totals

Description	Amount	Totals	Hours	Rate	Cost Basis	Cost per Unit	Percent of Total
Labor	5,367		88.086 hrs				4.31%
Material	64,722						51.95%
Subcontract							
Equipment							
Other							
	<u>70,089</u>	<u>70,089</u>					<u>56.26</u> ###
Historic Preservation Factor						T	
Design Contingency (Std 20%)	<u>14,018</u>			20.000 %		T	<u>11.25%</u>
	14,018	84,107					11.25 ###
General & Administrative (15%)	12,616			15.000 %		T	10.13%
Overhead (Standard 15%)	14,508			15.000 %		T	11.65%
Profit (Standard 12%)	<u>13,348</u>			12.000 %		T	<u>10.71%</u>
	40,472	124,579					32.49 ###
Total		124,579					