

Project Cost Estimate Report
City of Miami Beach
Pump Station 28 and Force Main
Improvements

Permit Set Opinion of Probable Construction Cost Estimate

February 29, 2024



Prepared by,



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Figure 1. AACE cost estimate classification matrix

Cost Estimate

1.1 Purpose of Estimate

The intent of this Opinion of Probable Construction Cost (OPCC) estimate is to provide the stakeholders with an initial control estimate. The Association for Advancement of Cost Engineering International (AACE) defines as a Class 1 OPCC associated with an engineering design ranging from 65% to 100%. The typical accuracy for a Class 1 cost estimate (Schematic Design or Concept Study) is -3% to -5% on the low side, and +3% to +10% on the high side. The estimating team recommends carrying a +3% design development factor.

ESTIMATE CLASS	Primary Characteristic	Secondary Characteristic		
	MATURITY LEVEL OF PROJECT DEFINITION DELIVERABLES Expressed as % of complete definition	END USAGE Typical purpose of estimate	METHODOLOGY Typical estimating method	EXPECTED ACCURACY RANGE Typical variation in low and high ranges at an 80% confidence interval
Class 5	0% to 2%	Functional area, or concept screening	SF or m ² factoring, parametric models, judgment, or analogy	L: -20% to -30% H: +30% to +50%
Class 4	1% to 15%	or Schematic design or concept study	Parametric models, assembly driven models	L: -10% to -20% H: +20% to +30%
Class 3	10% to 40%	Design development, budget authorization, feasibility	Semi-detailed unit costs with assembly level line items	L: -5% to -15% H: +10% to +20%
Class 2	30% to 75%	Control or bid/tender, semi-detailed	Detailed unit cost with forced detailed take-off	L: -5% to -10% H: +5% to +15%
Class 1	65% to 100%	Check estimate or pre bid/tender, change order	Detailed unit cost with detailed take-off	L: -3% to -5% H: +3% to +10%

Figure 1. AACE cost estimate classification matrix

1.2 General Project Description

This project by the City of Miami Beach aims at rehabilitating the existing Pump Station 28 (PS 28) located at 28th Street between Sheridan and Pine Tree Drive. The existing pump station and influent structure will be rehabilitated and the a new electrical building, generator building, and diesel tank system will be constructed. A 30-inch discharge force main of approx. 1,070 lineal feet, from PS28 along Pine Tree Drive, will installed.

1.3 Overall Construction Costs

The estimate was prepared with a “bottoms-up” approach meaning that every activity includes a production rate, construction crew and material pricing.

The material costs were based on our databases and quotes by specialty suppliers for wastewater equipment and specific materials.

1.4 Scope of Work

The existing pump station will be rehabilitated through selective demolition of the concrete slab and removal of all existing pumps and associated systems. The structure will be reconfigured to accommodate

the new pump, electrical equipment, ventilation, instrumentation and specialty coating of the wet well. New hatches will be installed and all necessary testing and start-up services, as well as landscape restoration will be included. The influent structure will also be rehabilitated, and a new electrical and generator building will replace the existing facilities.

The offsite components include the installation of approximately 1,070 LF of 30-in force main and associated maintenance of traffic and roadway reconstruction.

1.5 Overall Cost Breakdown

General Contractor Indirect Costs markups as follows for work and markup over subcontractors. It is assumed that the General Contractor will subcontract all construction trades.

<i>Subtotal Direct Costs</i>		<i>\$27,290,440</i>
<i>Total</i>		<i>\$27,290,440</i>
INDIRECT COSTS		
Cost Item Description	Percent	
Profit	5.00%	\$1,364,522
Payment and Performance Bond	1.00%	\$272,904
Insurance	1.50%	\$409,357
Home Office Overhead	5.00%	\$1,364,522
Design Fee (excluded)	0.00%	\$0
Escalation 3.8% to midpoint	5.80%	\$1,780,701
AACE Class 1	3.00%	\$974,473
<i>Subtotal Prime Contractor</i>		<i>\$33,456,920</i>
ALLOWANCES		
Allowance 1: Police Officer (1920 hrs x \$75/hr)		\$144,000
Allowance 2: Unforseen Conditions Allowance	10.00%	\$3,345,692
Allowance 3: Permitting Fees Allowance	3.00%	\$1,003,708
Allowance 4: Materials Testing (5% x Est. Material Cost)		\$525,000
<i>Allowances Subtotal</i>		<i>\$5,018,400</i>
Risk: Excluded		
<i>Total</i>		<i>\$38,475,320</i>

Table 1. General Contractor Markups & Allowances

All trades were assumed to be subcontracted, including:

- Demolition
- Mechanical, Electrical, Plumbing, and Fire Protection
- Structural
- Civil
- Landscaping

These trades would carry their own markup to reflect current Contractor bidding schemes. The General Contractor will provide all personnel for construction management.

1.6 Program Costs

Typically, projects for the City of Miami Beach carry additional program costs such as Project and Owner's Contingencies, Inspections, Construction Management, LEED feature upgrades, Art-In-Public-Places (AIPP), and others.

1.7 Estimate Classification

As recommended practice AACE International, the estimate can be categorized as a Class 1 for 100% Design. AACE recommends carrying a design development factor at this stage ranging from +3% to 10% the estimating team recommends carrying a +3% as design development factor.

1.8 Estimate Methodology

This estimate can be categorized as a bottoms-up estimate. The approach was to develop discrete construction activities with labor, materials and equipment using a crew production approach. These activities were further broken down into sub activities and rolled into major categories. This approach allows for review and assessment of the construction method and durations.

1.9 Escalation

An escalation cost has been included using ENR's Building Cost Index (BCI) at 3.8% for a period of 1.5 years from the date of this report through mid-point of construction. It is recommended that the escalation cost would need to be monitored as time progresses due to the volatility experienced in the last few years,

1.10 Cost Resources

The estimate is based on current material cost for readily available items such as concrete, rebar, and some common items. Specialized material costs were based on budgetary quotes provided by vendors such as pumps, hatches, odor control systems, specialty coatings, and diesel generator. The MEP materials were developed using real-time Trimble-Accubid pricing.

1.11 Labor Costs

Labor costs were based on current Miami-Dade labor market using RS Means 2024.

1.12 Taxes

6% Florida sales tax plus 1% Miami Dade discretionary sales tax.

1.13 Major Assumptions

This OPCC assumes that this project will be bid out by public invitation and awarded to a single Contractor who will supervise and coordinate the required trade contractors (subcontractors) and may self-perform a portion of the work. It was assumed that the project would be constructed in one phase.

Additional assumptions:

1.14 Allowances

The OPCC provides specific allowances delineated in the specifications: Police Office, Unforeseen Conditions, Permitting Fees and Materials Testing.

The Police Officer allowance is based on 12 months, 160 hrs./month at \$75/hr. for an off-duty Police Officer.

The Unforeseen Conditions allowance is based on 10% of the Contractor Bid Amount.

The Permitting Fees allowance is based on 3% of the Contractor Bid Amount.

The Materials Testing allowance is based on 5% of the estimated direct materials cost.

1.15 Excluded Costs

The following costs were excluded from this estimate:

- Overtime, shift differential or schedule compression.
- Unforeseen conditions except those addressed in the estimate.
- Deep foundations
- Hazardous material mitigation and waste removal and/or disposal including contaminated soil.
- Work Stoppages (i.e., strikes, lockout, owner's mandate)
- Union Labor
- Jobsite security

1.16 Reference Documents

- Miami Beach Public Works Department, PS 28 and Force Main Improvements, July 2023, Permit Submittal, prepared by Hazen and Sawyer. (158 sheets)
- Miami Beach Public Works Department, PS 28 and Force Main Improvements, July 2023, 100% Submittal, prepared by Hazen and Sawyer. (Specifications)
- Miami Beach – Public Works Department PS 28 Improvements Project Schedule, December 2023.

Appendix A

OPCC Summary (Direct and Indirect Costs)

OPCC SUMMARY

Biditem	Description	Quantity	Units	Unit Price	Bid Total
1	General Conditions/Contract Administration	1.000	LS	2,948,460	2,948,460
2	Mobilization/Demobilization	1.000	LS	797,474	797,474
3	Maintenance of Traffic	1.000	LS	454,116	454,116
4	Record Drawings	1.000	LS	507,683	507,683
A	General Pay Items				4,707,732
5	By-Pass Pumping Systems	1.000	LS	4,100,480	4,100,480
6	Restraint of two (2) existing 30-Inch Force Mains	2.000	EA	32,294	64,588
7	PS & Influent Screen Struct Rehab & Hardening	1.000	LS	1,306,776	1,306,776
8	PS & Influent Screen Struct Improvements	1.000	LS	15,573,290	15,573,290
9	PS & Influent Screen Struct Ventilation Improveme	1.000	LS	475,103	475,103
10	Electrical and Generator Building	1.000	LS	2,956,547	2,956,547
11	Generator and Fuel Storage Tank System Replacement	1.000	LS	1,905,433	1,905,433
12	Paving, Grading and Drainage Site Work	1.000	LS	59,328	59,328
13	Landscape Improvements	1.000	LS	169,243	169,243
14	Irrigation System	1.000	LS	25,870	25,870
15	Pump Station Site Restoration	1.000	LS	22,774	22,774
B	Pump Station 28 Items				26,659,431
16	30-inch Ductile Iron Force Main Installed via Open	1.000	LS	793,809	793,809
17	Ductile Iron Fittings - Epoxy Lined	21,278.000	LB	32.53	692,173
18	Air Release Valve Assembly	1.000	LS	25,974	25,974
19	Force Main Testing and Certification	1.000	LS	94,385	94,385
20	Abandonment of 30-inch Force Main via Grout-Fill	1.000	LS	263,198	263,198
21	Asphalt Trench Repair	730.000	SY	50	36,799
22	Asphalt Milling and Resurfacing	4,835.000	SY	30	145,920
23	Force Main Restoration	1.000	LS	37,497	37,497
C	Force Main Items				2,089,756
	Bid Total				33,456,920

D. Allowances

24	Police Officer		AL		144,000
25	Unforeseen Condions		AL		3,345,692
26	Permitting Fees		AL		1,003,708
27	Materials Testing Allowance		AL		525,000
D	Allowance Items				\$ 5,018,400

E	TOTAL				\$ 38,475,319
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Estimate Summary - Costs and Prices

Direct Biditems

Manhours	Labor	Perm Materials	Const Materials	Equipment	Subs	Direct Total	Indirect Charge	Addon Bond	Total Cost	Balanced Bid (TO)		Bid Prices	
										Markup	Total	Markup	Total
1 - General Conditions/Contract Administration				1 LS									
14,789	2,001,310	206,225	91,726			2,299,261		505,544	2,804,805	143,655	2,948,460.12	143,655	2,948,460.12
14,788.82									2,804,804.93	5.12%	2,948,460.12	5.12%	2,948,460.12
2 - Mobilization/Demobilization				1 LS									
			621,884			621,884		136,735	758,619	38,855	797,473.77	38,855	797,473.77
									758,619.17	5.12%	797,473.77	5.12%	797,473.77
3 - Maintenance of Traffic				1 LS									
4,320	217,296	66,447		70,384		354,127		77,863	431,990	22,125	454,115.64	22,125	454,115.64
4,320.00									431,990.17	5.12%	454,115.64	5.12%	454,115.64
4 - Record Drawings				1 LS									
		395,900				395,900		87,048	482,948	24,735	507,682.89	24,735	507,682.89
									482,947.51	5.12%	507,682.89	5.12%	507,682.89
Subtotal - General Pay Items													
19,109	2,218,606	668,572	713,610	70,384		3,671,172		807,190	4,478,362	229,371	4,707,732	229,371	4,707,732
5 - By-Pass Pumping Systems				1 LS									
17,552	1,001,440	14,653		1,515,279	60,000	2,591,372	777,430	569,771	3,938,574	161,906	4,100,479.71	161,906	4,100,479.71
17,552.00									3,938,573.74	4.11%	4,100,479.71	4.11%	4,100,479.71
6 - Restraint of two (2) existing 30-Inch Force Mains				2 EA									
280	17,144	7,807		15,867		40,818	12,246	8,975	62,038	2,550	64,588.08	2,550	64,588.08
140.00									31,018.92	4.11%	32,294.04	4.11%	32,294.04
7 - PS & Influent Screen Struct Rehab & Hardening				1 LS									
5,335	305,629	355,362	15,922	147,978	950	825,841	247,758	181,580	1,255,178	51,598	1,306,775.98	51,598	1,306,775.98
5,335.19									1,255,178.40	4.11%	1,306,775.98	4.11%	1,306,775.98
8 - PS & Influent Screen Struct Improvements				1 LS									
8,125	467,714	7,203,868		344,386	1,825,854	9,841,822	2,952,617	2,163,946	14,958,385	614,906	15,573,290.43	614,906	15,573,290.43
8,124.72									14,958,384.63	4.11%	15,573,290.43	4.11%	15,573,290.43

Manhours	Labor	Perm Materials	Const Materials	Equipment	Subs	Direct Total	Indirect Charge	Add-on Bond	Total Cost	Balanced Bid (TO)		Bid Prices	
										Markup	Total	Markup	Total
9 - PS & Influent Screen Struct Ventilation Improve				1 LS									
2,560	170,784	129,466				300,250	90,077	66,017	456,343	18,759	475,102.68	18,759	475,102.68
2,560.00									456,343.42	4.11%	475,102.68	4.11%	475,102.68
10 - Electrical and Generator Building				1 LS									
2,880	162,110	197,947		26,057	1,482,329	1,868,443	560,546	410,819	2,839,809	116,738	2,956,546.72	116,738	2,956,546.72
2,880.12									2,839,808.53	4.11%	2,956,546.72	4.11%	2,956,546.72
11 - Generator and Fuel Storage Tank System Replacement				1 LS									
3,046	216,121	870,402		21,519	96,131	1,204,173	361,260	264,764	1,830,198	75,235	1,905,433.01	75,235	1,905,433.01
3,046.00									1,830,197.67	4.11%	1,905,433.01	4.11%	1,905,433.01
12 - Paving, Grading and Drainage Site Work				1 LS									
142	8,016	6,948		5,248	17,281	37,493	11,248	8,244	56,986	2,343	59,328.14	2,343	59,328.14
142.37									56,985.59	4.11%	59,328.14	4.11%	59,328.14
13 - Landscape Improvements				1 LS									
941	47,895	48,645		10,415		106,956	32,088	23,517	162,560	6,682	169,242.57	6,682	169,242.57
941.14									162,560.09	4.11%	169,242.57	4.11%	169,242.57
14 - Irrigation System				1 LS									
108	6,830	7,519			2,000	16,349	4,905	3,595	24,848	1,021	25,869.91	1,021	25,869.91
107.56									24,848.45	4.11%	25,869.91	4.11%	25,869.91
15 - Pump Station Site Restoration				1 LS									
56	2,976	10,700		716		14,392	4,318	3,164	21,875	899	22,773.80	899	22,773.80
56.00									21,874.58	4.11%	22,773.80	4.11%	22,773.80
Subtotal - Pump Station 28 Items													
41,025	2,406,659	8,853,317	15,922	2,087,467	3,484,545	16,847,909	5,054,493	3,704,391	25,606,793	1,052,638	26,659,431	1,052,638	26,659,431
16 - 30-inch Ductile Iron Force Main Installed via Open				1 LS									
1,990	115,696	309,366		76,599		501,662	150,502	110,302	762,466	31,343	793,809.14	31,343	793,809.14
1,990.39									762,465.87	4.11%	793,809.14	4.11%	793,809.14
17 - Ductile Iron Fittings - Epoxy Lined				21,278 LB									
1,570	91,688	281,362		64,392		437,442	131,236	96,181	664,859	27,331	692,189.84	27,314	692,173.34
.07									31.25	4.11%	32.53	4.11%	32.53

Manhours	Labor	Perm Materials	Const Materials	Equipment	Subs	Direct Total	Indirect Charge	Addon Bond	Total Cost	Balanced Bid (TO)		Bid Prices	
										Markup	Total	Markup	Total
18 - Air Release Valve Assembly				1 LS									
47	2,972	13,194		249		16,415	4,925	3,609	24,949	1,026	25,974.15	1,026	25,974.15
47.41									24,948.57	4.11%	25,974.15	4.11%	25,974.15
19 - Force Main Testing and Certification				1 LS									
600	35,040			24,608		59,648	17,895	13,115	90,658	3,727	94,385.14	3,727	94,385.14
600.00									90,658.38	4.11%	94,385.14	4.11%	94,385.14
20 - Abandonment of 30-inch Force Main via Grout-Fill				1 LS									
1,976	109,794	24,174		32,364		166,332	49,901	36,572	252,805	10,392	263,197.62	10,392	263,197.62
1,975.82									252,805.36	4.11%	263,197.62	4.11%	263,197.62
21 - Asphalt Trench Repair				730 SY									
64	3,598	16,886		2,773		23,257	6,977	5,114	35,348	1,453	36,801.41	1,451	36,799.30
.09									48.42	4.11%	50.41	4.1%	50.41
22 - Asphalt Milling and Resurfacing				4,835 SY									
296	15,744	35,230		11,251	30,000	92,225	27,668	20,278	140,170	5,762	145,932.46	5,750	145,920.30
.06									28.99	4.11%	30.18	4.1%	30.18
23 - Force Main Restoration				1 LS									
184	10,105	12,632		941		23,678	7,104	5,206	35,988	1,479	37,467.25	1,479	37,467.25
184.21									35,987.87	4.11%	37,467.25	4.11%	37,467.25
Subtotal - Force Main Items													
6,728	384,637	692,845		213,178	30,000	1,320,660	396,207	290,377	2,007,244	82,513	2,089,757	82,483	2,089,726
Direct Totals													
66,862	5,009,902	10,214,734	729,531	2,371,028	3,514,545	21,839,741	5,450,700	4,801,958	32,092,398	1,364,522	33,456,920	1,364,491	33,456,890

Indirect Charges

MHs	Labor	Perm Matl	Constr Matl	Equipment	Subcontract	Total
30 - Subcontractor Markup						
	-	-	-	-	5,450,700	5,450,700
Indirect Totals						
	-	-	-	-	5,450,700	5,450,700

Addon/Bond

Additional Cost		Addon/Bond Cost
Payment and Performance Bond	1 % of TC	272,904
Insurance	1.5 % of TC	409,357
Home Office Overhead	5 % of TC	1,364,522
Escalation	5.8 % of ++	1,780,701
AACE Class 1	3 % of ++	974,473
No bond selected		-
Totals from Addon and Bond		
		4,801,958

Summary Information

Last Summary: 2/29/2024 10:15:00 PM
Last Spread: 2/29/2024 10:15:00 PM

Appendix B

OPCC Detailed Direct Cost

Cost Report

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CMBPS28

City of Miami Beach - Pump Station 28

02/29/2024 10:25 PM

Biditem**General Conditions/Contract Administration****1**

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2,001,309.65	0.00	2,001,309.65	0.00	206,225.38	91,725.75	0.00	2,299,260.78
Total	2,001,309.65	0.00	2,001,309.65	0.00	206,225.38	91,725.75	0.00	2,299,260.78

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
14,788.8200	0.0001	14,788.8200	155.4729	135.3259	135.3259	0.0000

Activity: 150.1 Supervision (Unreviewed) Quantity: 12.00 Unit: MO

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	166,775.80	0.00	166,775.80	0.00	0.00	0.00	0.00	166,775.80
Total	2,001,309.65	0.00	2,001,309.65	0.00	0.00	0.00	0.00	2,001,309.65

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
14,788.8200	0.0008	1,232.4017	135.3259	166,775.8042

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Notes: Added labor for COVID-19 Temperature Check

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
Z-CLAM	▫ Common Maintenance Laborer	1.00	2,080.00	MH	38.00	100.00	38.00	79,040.00
ZCH	▫ Project Scheduler	1.00	693.33	MH	135.00	100.00	135.00	93,599.55
ZCL	▫ Clerk	1.00	693.34	MH	75.00	100.00	75.00	52,000.50
ZES	▫ Electrical Superintendent	0.75	520.01	MH	150.00	100.00	150.00	78,001.50
ZFE	▫ Field Engineer	1.00	2,080.00	MH	100.00	100.00	100.00	208,000.00
ZGS	▫ General Superintendent	1.00	2,080.00	MH	200.00	100.00	200.00	416,000.00
ZHS	▫ Health and Safety Manager	1.00	693.33	MH	200.00	100.00	200.00	138,666.00
ZMS	▫ Process Mechanical Superintendent	0.75	1,040.01	MH	210.00	100.00	210.00	218,402.10
ZPA	▫ Project Accountant	0.25	520.00	MH	110.00	100.00	110.00	57,200.00
ZPE	▫ Project Engineer	1.00	2,080.00	MH	115.00	100.00	115.00	239,200.00
ZPM	▫ Project Manager	1.00	2,080.00	MH	175.00	100.00	175.00	364,000.00
ZPX	▫ Project Executive	0.33	228.80	MH	250.00	100.00	250.00	57,200.00

Activity: 150.2 Field Cost (Unreviewed) Quantity: 12.00 Unit: MO

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.00	0.00	0.00	0.00	17,185.45	7,643.81	0.00	24,829.26
Total	0.00	0.00	0.00	0.00	206,225.38	91,725.75	0.00	297,951.13

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z014500095	Soil testing, sieve analysis, washed, ASTM D422	1.00	15.00	EA	136.00	107.00	145.52	2,182.80
2Z014500099	Soil testing, soil density, nuclear method, ASTM D	1.00	500.00	EA	35.00	107.00	37.45	18,725.00
2Z014500101	Soil testing, moisture content, ASTM D 2216	1.00	15.00	EA	18.00	107.00	19.26	288.90
2Z014500106	Soil testing, proctor compaction, 6" modified mold	1.00	15.00	EA	68.00	107.00	72.76	1,091.40
2Z015200146	Office trailer, furnished, rent per month, 50' x 1	2.00	48.00	EA	700.00	107.00	749.00	35,952.00
2Z015200147	Office trailer, excl. hookups, air conditioning, r	2.00	24.00	EA	51.00	107.00	54.57	1,309.68

2Z015200156	Storage boxes, rent per month, 20' x 8'	2.00	48.00	EA	85.00	107.00	90.95	4,365.60
2Z015200160	Field office expense, office supplies, average	1.00	12.00	MO	1,500.00	107.00	1,605.00	19,260.00
2Z015800438	Project signs, sign, high intensity reflectorized,	1.00	2.00	EA	500.00	107.00	535.00	1,070.00
2Z019300787	Vehicle maintenance, change oil & filter, light ve	1.00	60.00	EA	500.00	107.00	535.00	32,100.00
2Z019300788	Pickup Trucks	5.00	60.00	MO	900.00	107.00	963.00	57,780.00
2Z022100895	Topographical survey, conventional, maximum	1.00	12.00	MO	2,500.00	107.00	2,675.00	32,100.00
33SPL0B	LEVEL B PPE	1.00	170.00	MDAY	4.50	107.00	4.82	818.55
33SPL0D	LEVEL D PPE	1.00	9,800.00	MDAY	2.00	107.00	2.14	20,972.00
33ZF18	Trailer Cleaning Service	1.00	48.00	WK	400.00	107.00	428.00	20,544.00
33ZF20	Office Equip	1.00	12.00	MO	1,500.00	107.00	1,605.00	19,260.00
33ZF29	Eye Wash Station	1.00	1.00	EA	500.00	107.00	535.00	535.00
33ZF30	Portable Toilets	2.00	24.00	MO	315.00	107.00	337.05	8,089.20
33ZF46	Cellular Phone Service	5.00	60.00	MO	75.00	107.00	80.25	4,815.00
33ZF47	SAFETY SUPPLIES	1.00	52.00	WK	300.00	107.00	321.00	16,692.00

Biditem

2

Mobilization/Demobilization

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.00	0.00	0.00	0.00	0.00	621,884.00	0.00	621,884.00
Total	0.00	0.00	0.00	0.00	0.00	621,884.00	0.00	621,884.00

Activity: 100.1

Mobilize

(Unreviewed)

Quantity: 1.00

Unit: LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.00	0.00	0.00	0.00	0.00	621,884.00	0.00	621,884.00
Total	0.00	0.00	0.00	0.00	0.00	621,884.00	0.00	621,884.00

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
35CH75	75 TON HYDRO CRANE W/ OPER	1.00	2,000.00	HR	275.00	107.00	294.25	588,500.00
35MLOWBOY	Semi Tractor w/ Lowboy Trail	1.00	480.00	HR	65.00	107.00	69.55	33,384.00

Biditem

3

Maintenance of Traffic

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	217,296.00	0.00	217,296.00	70,384.32	66,447.00	0.00	0.00	354,127.32
Total	217,296.00	0.00	217,296.00	70,384.32	66,447.00	0.00	0.00	354,127.32

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
4,320.0000	0.0002	4,320.0000	81.9739	50.3000	50.3000	0.0007

Activity: 01550000

Vehicular Access And Parking

(Unreviewed)

Quantity: 360.00

Unit: DA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	603.60	0.00	603.60	195.51	184.58	0.00	0.00	983.69
Total	217,296.00	0.00	217,296.00	70,384.32	66,447.00	0.00	0.00	354,127.32

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
799.1120	4.0000	0.2500	199.7780	180.0000	2.0000	0.5000	1,967.3740

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
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4,320.0000	0.0833	12.0000	50.3000	603.6000
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Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS894 (Mod) RS Means Crew K1Prod: S180Eff: 100.00Crew Hrs: 1440.00Labor Pcs: 3.00Equipment Pcs: 1.00

Notes: Vehicular Access And Parking

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2T5002	Traffic Signs (MED)	1.00	10.00	EA	750.00	107.00	802.50	8,025.00
2T5003	Traffic Signs (LG)	1.00	10.00	EA	800.00	107.00	856.00	8,560.00
2T6002	Barr (SM) W/Light	1.00	50.00	EA	62.00	107.00	66.34	3,317.00
2T6005	Batteries	4.00	80.00	EA	25.00	107.00	26.75	2,140.00
2T8010	Barrier Fencing	1.00	500.00	LF	65.00	107.00	69.55	34,775.00
2T8102	Changable Message Sign	1.00	2,000.00	HR	4.50	107.00	4.82	9,630.00
8Z5433205500	Flatbed Truck, Gas, 3 Ton	1.00	1,440.00	HR	48.88	100.00	48.88	70,384.32
Z-CLAB	Common Building Laborers	2.00	2,880.00	MH	49.00	100.00	49.00	141,120.00
Z-TRLT	Truck Drivers, Light	1.00	1,440.00	MH	52.90	100.00	52.90	76,176.00

Biditem

4

Record Drawings

Takeoff Qty: 1.000 LSBid Qty: 1.000 LS

Activity: 011131751000	Record Drawings	(Unreviewed)	Quantity: 1.00	Unit: EA
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Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Notes: Field Engineering, PLS & PE Dwgs

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z01111015	Professional Engineering Services	1.00	2,000.00	HR	185.00	107.00	197.95	395,900.00

Subtotal

General Pay Items

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Misc 1	Misc 2	Misc 3	Total
Total	2,218,605.65	0.00	2,218,605.65	70,384.32	668,572.38	713,609.75	0.00	0.00	0.00	0.00	3,671,172.10

Biditem

5

By-Pass Pumping Systems

Takeoff Qty: 1.000 LSBid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1,001,440.00	0.00	1,001,440.00	1,515,279.20	14,653.01	0.00	60,000.00	2,591,372.21
Total	1,001,440.00	0.00	1,001,440.00	1,515,279.20	14,653.01	0.00	60,000.00	2,591,372.21

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
17,552.0000	0.0001	17,552.0000	147.6397	57.0556	57.0556	0.0001

Activity: 333111252080	Public sanitary utility sewerage piping, HDPE, 13' lengths, 8" diame	(Unreviewed)	Quantity: 320.00	Unit: LF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	45.63	0.00	45.63	39.22	24.48	0.00	93.75	203.07
Total	14,600.00	0.00	14,600.00	12,549.50	7,832.40	0.00	30,000.00	64,981.90

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
84.8422	0.1563	6.4000	542.9900	5.0000	64.0000	0.0156	12,996.3800

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
250.0000	1.2800	0.7813	58.4000	45.6250

Calendar: 510 Five- 10 hr shift Hrs/Shift: 10 WC: Code not found.

Crew: RS280 (Mod) RS Means Crew B20 Prod: US 64 Eff: 100.00 Crew Hrs: 50.00 Labor Pcs: 5.00 Equipment Pcs: 7.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2SANDBAG	Sand Bags	1.00	30.00	EA	20.00	107.00	21.40	642.00
2Z33311380	Public sanitary utility sewerage piping, piping po	1.00	320.00	LF	21.00	107.00	22.47	7,190.40
4HOTTAP	Hot Tapping Sub	1.00	2.00	EA	15,000.00	100.00	15,000.00	30,000.00
8Z5433200460	Backhoe Loader, 80 H.P.	1.00	50.00	HR	44.71	100.00	44.71	2,235.70
8Z5433400300	Air Compressor, 160 cfm	1.00	50.00	HR	30.52	100.00	30.52	1,525.75
8Z5433401685	Butt Fusion Mach., 2"-8" diam.	1.00	50.00	HR	35.06	100.00	35.06	1,753.00
8Z5433402700	Generator, Diesel, 100 kW	1.00	50.00	HR	71.01	100.00	71.01	3,550.40
8Z5433406500	Flatbed Trailer, 25 Ton	1.00	50.00	HR	18.83	100.00	18.83	941.30
8Z5433407250	Crew Truck	1.00	50.00	HR	22.98	100.00	22.98	1,148.95
8Z5433407290	Flatbed Truck, 20,000 GVW	1.00	50.00	HR	27.89	100.00	27.89	1,394.40
Z-CLAB	Common Building Laborers	1.00	50.00	MH	49.00	100.00	49.00	2,450.00
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	50.00	MH	49.50	100.00	49.50	2,475.00
Z-EQMD	Equipment Operators, Medium Equipment	2.00	100.00	MH	65.00	100.00	65.00	6,500.00
Z-SKWK	Skilled Workers Average (35 trades)	1.00	50.00	MH	63.50	100.00	63.50	3,175.00

Activity: 33311252082 Public sanitary utility sewerage piping, HDPE, 13' lengths, 8" diame (Unreviewed) Quantity: 165.00 Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	53.09	0.00	53.09	45.63	24.48	0.00	181.82	305.02
Total	8,760.00	0.00	8,760.00	7,529.70	4,038.61	0.00	30,000.00	50,328.31

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
98.7255	0.1818	5.5000	542.9900	3.0000	55.0000	0.0182	16,776.1033

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
150.0000	1.1000	0.9091	58.4000	53.0909

Calendar: 510 Five- 10 hr shift Hrs/Shift: 10 WC: Code not found.

Crew: RS280 (Mod) RS Means Crew B20 Prod: US 55 Eff: 100.00 Crew Hrs: 30.00 Labor Pcs: 5.00 Equipment Pcs: 7.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2SANDBAG	Sand Bags	1.00	15.47	EA	20.00	107.00	21.40	331.06
2Z33311380	Public sanitary utility sewerage piping, piping po	1.00	165.00	LF	21.00	107.00	22.47	3,707.55
4HOTTAP	Hot Tapping Sub	1.00	2.00	EA	15,000.00	100.00	15,000.00	30,000.00
8Z5433200460	Backhoe Loader, 80 H.P.	1.00	30.00	HR	44.71	100.00	44.71	1,341.42
8Z5433400300	Air Compressor, 160 cfm	1.00	30.00	HR	30.52	100.00	30.52	915.45
8Z5433401685	Butt Fusion Mach., 2"-8" diam.	1.00	30.00	HR	35.06	100.00	35.06	1,051.80
8Z5433402700	Generator, Diesel, 100 kW	1.00	30.00	HR	71.01	100.00	71.01	2,130.24
8Z5433406500	Flatbed Trailer, 25 Ton	1.00	30.00	HR	18.83	100.00	18.83	564.78
8Z5433407250	Crew Truck	1.00	30.00	HR	22.98	100.00	22.98	689.37
8Z5433407290	Flatbed Truck, 20,000 GVW	1.00	30.00	HR	27.89	100.00	27.89	836.64
Z-CLAB	Common Building Laborers	1.00	30.00	MH	49.00	100.00	49.00	1,470.00
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	30.00	MH	49.50	100.00	49.50	1,485.00
Z-EQMD	Equipment Operators, Medium Equipment	2.00	60.00	MH	65.00	100.00	65.00	3,900.00
Z-SKWK	Skilled Workers Average (35 trades)	1.00	30.00	MH	63.50	100.00	63.50	1,905.00

Activity: 33311253745 Public sanitary utility sewerage piping, 90 degree elbow, HDPE, 8" diamete (Unreviewed) Quantity: 2.00 Unit: EA

Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
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U. Cost	508.00	0.00	508.00	0.00	267.50	0.00	0.00	775.50
Total	1,016.00	0.00	1,016.00	0.00	535.00	0.00	0.00	1,551.00

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
508.0000	4.0000	0.2500	127.0000	1.0000	2.0000	0.5000	1,551.0000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
16.0000	0.1250	8.0000	63.5000	508.0000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1144 (Mod) RS Means Crew SKWK Prod: US 2 Eff: 100.00 Crew Hrs: 8.00 Labor Pcs: 2.00 Equipment Pcs: 0.00

Notes: Public sanitary utility sewerage piping, 90 degree elbow, polyvinyl chloride pipe, B & S, 8" diameter, SDR 35

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z33311520	Public sanitary utility sewerage piping, 90 degree	1.00	2.00	EA	250.00	107.00	267.50	535.00
Z-SKWK	Skilled Workers Average (35 trades)	2.00	16.00	MH	63.50	100.00	63.50	1,016.00

Activity: 333111253795 Public sanitary utility sewerage piping, 45 degree elbow, HDPE, 8" diameter (Unreviewed) Quantity: 7.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	435.43	0.00	435.43	0.00	321.00	0.00	0.00	756.43
Total	3,048.00	0.00	3,048.00	0.00	2,247.00	0.00	0.00	5,295.00

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
435.4286	3.4286	0.2917	127.0000	3.0000	2.3333	0.4286	1,765.0000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
48.0000	0.1458	6.8571	63.5000	435.4286

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1144 (Mod) RS Means Crew SKWK Prod: US 2.3333 Eff: 100.00 Crew Hrs: 24.00 Labor Pcs: 2.00 Equipment Pcs: 0.00

Notes: Public sanitary utility sewerage piping, 45 degree elbow, polyvinyl chloride pipe, B & S, 8" diameter, SDR 35

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z33311555	Public sanitary utility sewerage piping, 45 degree	1.00	7.00	EA	300.00	107.00	321.00	2,247.00
Z-SKWK	Skilled Workers Average (35 trades)	2.00	48.00	MH	63.50	100.00	63.50	3,048.00

Activity: 312319201100 Bypass, pumping 24 hours, attended 24 hours per day, System 1 and 2 (Unreviewed) Quantity: 356.00 Unit: DAY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2,736.00	0.00	2,736.00	4,200.00	0.00	0.00	0.00	6,936.00
Total	974,016.00	0.00	974,016.00	1,495,200.00	0.00	0.00	0.00	2,469,216.00

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
6,936.0000	24.0000	0.0417	289.0000	1,068.0000	0.3333	3.0000	2,312.0000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
17,088.0000	0.0208	48.0000	57.0000	2,736.0000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS110 (Mod) RS Means Crew B10K Prod: US 0.3333 Eff: 100.00 Crew Hrs: 8544.00 Labor Pcs: 2.00 Equipment Pcs: 9.00

Notes: Assumed 90 days, need to check schedule

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8Z5433403230	20' Suction Hose, 8"	2.00	17,088.00	HR	4.50	100.00	4.50	76,896.00
8Z5433403280	50' Discharge Hose, 8"	4.00	34,176.00	HR	3.50	100.00	3.50	119,616.00
8Z5433404399	Centr. Water Pump (Standby)	1.00	8,544.00	HR	35.00	100.00	35.00	299,040.00
8Z5433404400	Centr. Water Pump, 8"	2.00	17,088.00	HR	58.50	100.00	58.50	999,648.00

Z-CLAB	Common Building Laborers	1.00	8,544.00	MH	49.00	100.00	49.00	418,656.00
Z-EQMD	Equipment Operators, Medium Equipment	1.00	8,544.00	MH	65.00	100.00	65.00	555,360.00

Biditem

Restraint of two (2) existing 30-Inch Force Mains

6

Takeoff Qty: 2.000 EA

Bid Qty: 2.000 EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	8,572.00	0.00	8,572.00	7,933.44	3,903.36	0.00	0.00	20,408.80
Total	17,144.00	0.00	17,144.00	15,866.88	7,806.72	0.00	0.00	40,817.60

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
280.0000	0.0071	140.0000	145.7771	61.2286	61.2286	0.0132

Activity: 312319201100Dewatering, pumping 24 hours, attended 24 hours per day, 6" centrifugal pump(Unreviewed)Quantity: 5.00Unit: DAY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1,560.00	0.00	1,560.00	1,680.00	0.00	0.00	0.00	3,240.00
Total	7,800.00	0.00	7,800.00	8,400.00	0.00	0.00	0.00	16,200.00

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3,240.0000	24.0000	0.0417	135.0000	15.0000	0.3333	3.0000	1,080.0000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
120.0000	0.0417	24.0000	65.0000	1,560.0000

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS110 (Mod) RS Means Crew B10KProd: US 0.3333Eff: 100.00Crew Hrs: 120.00Labor Pcs: 1.00Equipment Pcs: 4.00

Notes: Dewatering, pumping 8 hours, attended 2 hours per day, 6" centrifugal pump, includes 20 LF of suction hose and 100 LF of discharDay

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8Z5433403230	20' Suction Hose, 8"	1.00	120.00	HR	4.50	100.00	4.50	540.00
8Z5433403280	50' Discharge Hose, 8"	2.00	240.00	HR	3.50	100.00	3.50	840.00
8Z5433404400	Centr. Water Pump, 8"	1.00	120.00	HR	58.50	100.00	58.50	7,020.00
Z-EQMD	Equipment Operators, Medium Equipment	1.00	120.00	MH	65.00	100.00	65.00	7,800.00

Activity: 331413158790Piping, joint restraint, ductile iron mechanical joints, 30" diameterQuantity: 4.00Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2,336.00	0.00	2,336.00	1,866.72	1,951.68	0.00	0.00	6,154.40
Total	9,344.00	0.00	9,344.00	7,466.88	7,806.72	0.00	0.00	24,617.60

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
4,202.7200	8.0000	0.1250	525.3400	4.0000	1.0000	1.0000	6,154.4000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
160.0000	0.0250	40.0000	58.4000	2,336.0000

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS284 (Mod) RS Means Crew B21Prod: US 1Eff: 100.00Crew Hrs: 32.00Labor Pcs: 5.00Equipment Pcs: 6.00

Notes: Includes exploration time with pipe crew

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z33141565	Water supply distribution piping, joint restraint,	1.00	4.00	EA	1,824.00	107.00	1,951.68	7,806.72
8MISBX	Trench Box, 8'x20'	2.00	64.00	HR	12.81	100.00	12.81	820.03
8MISCRP	Road Plates, 4'x4'	2.00	64.00	HR	1.32	100.00	1.32	84.61
8Z5433200200	Hyd. Excavator, 1.5 C.Y.	1.00	32.00	HR	148.16	100.00	148.16	4,740.96

8Z5433204620	F.E. Loader, W.M., 1.5 C.Y.	1.00	32.00	HR	56.92	100.00	56.92	1,821.28
Z-CLAB	Common Building Laborers	1.00	32.00	MH	49.00	100.00	49.00	1,568.00
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	32.00	MH	49.50	100.00	49.50	1,584.00
Z-EQMD	Equipment Operators, Medium Equipment	2.00	64.00	MH	65.00	100.00	65.00	4,160.00
Z-SKWK	Skilled Workers Average (35 trades)	1.00	32.00	MH	63.50	100.00	63.50	2,032.00

Biditem - Parent

PS & Influent Screen Struct Rehab & Hardening

7

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	305,628.69	0.00	305,628.69	147,978.32	355,362.07	15,921.60	950.00	825,840.68
Total	305,628.69	0.00	305,628.69	147,978.32	355,362.07	15,921.60	950.00	825,840.68

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
5,335.1900	0.0002	5,335.1900	154.7912	57.2854	57.2854	0.0000

Subtotal

Pump Station 28 Items

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Misc 1	Misc 2	Misc 3	Total
Total	2,389,304.54	17,354.34	2,406,658.88	2,087,466.65	8,853,316.67	15,921.60	3,484,545.10	0.00	0.00	0.00	16,847,908.90

Subtotal

Force Main Items

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Misc 1	Misc 2	Misc 3	Total
Total	384,637.30	0.00	384,637.30	213,177.51	692,844.89	0.00	30,000.00	0.00	0.00	0.00	1,320,659.70

Biditem

Hatches

710

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	48,528.00	0.00	48,528.00	16,222.05	181,437.60	7,896.60	950.00	255,034.25
Total	48,528.00	0.00	48,528.00	16,222.05	181,437.60	7,896.60	950.00	255,034.25

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
800.0000	0.0013	800.0000	318.7928	60.6600	60.6600	0.0063

Activity: 077233101100

Roof hatch, 7'x7', USF fabrication

(Unreviewed)

Quantity: 5.00

Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2,426.40	0.00	2,426.40	811.10	11,318.42	0.00	0.00	14,555.92
Total	12,132.00	0.00	12,132.00	4,055.52	56,592.09	0.00	0.00	72,779.61

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3,237.5040	8.0000	0.1250	404.6880	5.0000	1.0000	1.0000	14,555.9220

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
200.0000	0.0250	40.0000	60.6600	2,426.4000

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS858

(Mod) RS Means Crew G3

Prod: US 1

Eff: 100.00

Crew Hrs: 40.00

Labor Pcs: 5.00

Equipment Pcs: 3.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
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2Z07721085	Roof hatch, with curb, 1" fiberglass insulation, a	1.00	5.00	EA	10,577.96	107.00	11,318.42	56,592.09
8Z5433402065	A.T. Forklift, 31' reach, 45' lift	1.00	40.00	HR	84.16	100.00	84.16	3,366.32
8Z5433603900	Hand Tools	2.00	80.00	HR	8.62	100.00	8.62	689.20
Z-CLAB	Common Building Laborers	2.00	80.00	MH	49.00	100.00	49.00	3,920.00
Z-EQMD	Equipment Operators, Medium Equipment	1.00	40.00	MH	65.00	100.00	65.00	2,600.00
Z-SHEE	Sheet Metal Workers	2.00	80.00	MH	70.15	100.00	70.15	5,612.00

Activity: 077233101110 Roof hatch, 6'-9"x7', USF fabrication (Unreviewed) Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2,426.40	0.00	2,426.40	811.10	11,318.42	0.00	0.00	14,555.92
Total	2,426.40	0.00	2,426.40	811.10	11,318.42	0.00	0.00	14,555.92

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3,237.5000	8.0000	0.1250	404.6875	1.0000	1.0000	1.0000	14,555.9200

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
40.0000	0.0250	40.0000	60.6600	2,426.4000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS858 (Mod) RS Means Crew G3 Prod: US 1 Eff: 100.00 Crew Hrs: 8.00 Labor Pcs: 5.00 Equipment Pcs: 3.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z07721085	Roof hatch, with curb, 1" fiberglass insulation, a	1.00	1.00	EA	10,577.96	107.00	11,318.42	11,318.42
8Z5433402065	A.T. Forklift, 31' reach, 45' lift	1.00	8.00	HR	84.16	100.00	84.16	673.26
8Z5433603900	Hand Tools	2.00	16.00	HR	8.62	100.00	8.62	137.84
Z-CLAB	Common Building Laborers	2.00	16.00	MH	49.00	100.00	49.00	784.00
Z-EQMD	Equipment Operators, Medium Equipment	1.00	8.00	MH	65.00	100.00	65.00	520.00
Z-SHEE	Sheet Metal Workers	2.00	16.00	MH	70.15	100.00	70.15	1,122.40

Activity: 077233101115 Roof hatch, 5'x7', USF fabrication (Unreviewed) Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2,426.40	0.00	2,426.40	811.10	9,701.51	0.00	0.00	12,939.01
Total	2,426.40	0.00	2,426.40	811.10	9,701.51	0.00	0.00	12,939.01

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3,237.5000	8.0000	0.1250	404.6875	1.0000	1.0000	1.0000	12,939.0100

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
40.0000	0.0250	40.0000	60.6600	2,426.4000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS858 (Mod) RS Means Crew G3 Prod: US 1 Eff: 100.00 Crew Hrs: 8.00 Labor Pcs: 5.00 Equipment Pcs: 3.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z07721085	Roof hatch, with curb, 1" fiberglass insulation, a	1.00	1.00	EA	9,066.83	107.00	9,701.51	9,701.51
8Z5433402065	A.T. Forklift, 31' reach, 45' lift	1.00	8.00	HR	84.16	100.00	84.16	673.26
8Z5433603900	Hand Tools	2.00	16.00	HR	8.62	100.00	8.62	137.84
Z-CLAB	Common Building Laborers	2.00	16.00	MH	49.00	100.00	49.00	784.00
Z-EQMD	Equipment Operators, Medium Equipment	1.00	8.00	MH	65.00	100.00	65.00	520.00
Z-SHEE	Sheet Metal Workers	2.00	16.00	MH	70.15	100.00	70.15	1,122.40

Activity: 077233101120 Roof hatch, 5'x4', USF fabrication (Unreviewed) Quantity: 3.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2,426.40	0.00	2,426.40	811.10	5,050.13	0.00	0.00	8,287.64
Total	7,279.20	0.00	7,279.20	2,433.31	15,150.40	0.00	0.00	24,862.91

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3,237.5033	8.0000	0.1250	404.6879	3.0000	1.0000	1.0000	8,287.6367
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
120.0000	0.0250	40.0000	60.6600	2,426.4000			

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS858 (Mod) RS Means Crew G3 Prod: US 1 Eff: 100.00 Crew Hrs: 24.00 Labor Pcs: 5.00 Equipment Pcs: 3.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z07721085	Roof hatch, with curb, 1" fiberglass insulation, a	1.00	3.00	EA	4,719.75	107.00	5,050.13	15,150.40
8Z5433402065	A.T. Forklift, 31' reach, 45' lift	1.00	24.00	HR	84.16	100.00	84.16	2,019.79
8Z5433603900	Hand Tools	2.00	48.00	HR	8.62	100.00	8.62	413.52
Z-CLAB	Common Building Laborers	2.00	48.00	MH	49.00	100.00	49.00	2,352.00
Z-EQMD	Equipment Operators, Medium Equipment	1.00	24.00	MH	65.00	100.00	65.00	1,560.00
Z-SHEE	Sheet Metal Workers	2.00	48.00	MH	70.15	100.00	70.15	3,367.20

Activity: 077233101125 Roof hatch, 3'x3', USF fabrication (Unreviewed) Quantity: 3.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2,426.40	0.00	2,426.40	811.10	2,824.80	0.00	0.00	6,062.30
Total	7,279.20	0.00	7,279.20	2,433.31	8,474.40	0.00	0.00	18,186.91

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3,237.5033	8.0000	0.1250	404.6879	3.0000	1.0000	1.0000	6,062.3033
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
120.0000	0.0250	40.0000	60.6600	2,426.4000			

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS858 (Mod) RS Means Crew G3 Prod: US 1 Eff: 100.00 Crew Hrs: 24.00 Labor Pcs: 5.00 Equipment Pcs: 3.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z07721085	Roof hatch, with curb, 1" fiberglass insulation, a	1.00	3.00	EA	2,640.00	107.00	2,824.80	8,474.40
8Z5433402065	A.T. Forklift, 31' reach, 45' lift	1.00	24.00	HR	84.16	100.00	84.16	2,019.79
8Z5433603900	Hand Tools	2.00	48.00	HR	8.62	100.00	8.62	413.52
Z-CLAB	Common Building Laborers	2.00	48.00	MH	49.00	100.00	49.00	2,352.00
Z-EQMD	Equipment Operators, Medium Equipment	1.00	24.00	MH	65.00	100.00	65.00	1,560.00
Z-SHEE	Sheet Metal Workers	2.00	48.00	MH	70.15	100.00	70.15	3,367.20

Activity: 077233101130 Roof hatch, 6'x4', USF fabrication (Unreviewed) Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2,426.40	0.00	2,426.40	811.10	5,049.33	0.00	0.00	8,286.83
Total	2,426.40	0.00	2,426.40	811.10	5,049.33	0.00	0.00	8,286.83

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3,237.5000	8.0000	0.1250	404.6875	1.0000	1.0000	1.0000	8,286.8300
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
40.0000	0.0250	40.0000	60.6600	2,426.4000			

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS858 (Mod) RS Means Crew G3 Prod: US 1 Eff: 100.00 Crew Hrs: 8.00 Labor Pcs: 5.00 Equipment Pcs: 3.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z07721085	Roof hatch, with curb, 1" fiberglass insulation, a	1.00	1.00	EA	4,719.00	107.00	5,049.33	5,049.33
8Z5433402065	A.T. Forklift, 31' reach, 45' lift	1.00	8.00	HR	84.16	100.00	84.16	673.26
8Z5433603900	Hand Tools	2.00	16.00	HR	8.62	100.00	8.62	137.84
Z-CLAB	Common Building Laborers	2.00	16.00	MH	49.00	100.00	49.00	784.00

Z-EQMD	Equipment Operators, Medium Equipment	1.00	8.00	MH	65.00	100.00	65.00	520.00
Z-SHEE	Sheet Metal Workers	2.00	16.00	MH	70.15	100.00	70.15	1,122.40

Activity: 077233101135 Roof hatch, 2'6"x2'6", USF fabrication (Unreviewed) Quantity: 2.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2,426.40	0.00	2,426.40	811.11	2,824.80	0.00	0.00	6,062.31
Total	4,852.80	0.00	4,852.80	1,622.21	5,649.60	0.00	0.00	12,124.61

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3,237.5050	8.0000	0.1250	404.6881	2.0000	1.0000	1.0000	6,062.3050

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
80.0000	0.0250	40.0000	60.6600	2,426.4000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS858 (Mod) RS Means Crew G3 Prod: US 1 Eff: 100.00 Crew Hrs: 16.00 Labor Pcs: 5.00 Equipment Pcs: 3.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z07721085	Roof hatch, with curb, 1" fiberglass insulation, a	1.00	2.00	EA	2,640.00	107.00	2,824.80	5,649.60
8Z5433402065	A.T. Forklift, 31' reach, 45' lift	1.00	16.00	HR	84.16	100.00	84.16	1,346.53
8Z5433603900	Hand Tools	2.00	32.00	HR	8.62	100.00	8.62	275.68
Z-CLAB	Common Building Laborers	2.00	32.00	MH	49.00	100.00	49.00	1,568.00
Z-EQMD	Equipment Operators, Medium Equipment	1.00	16.00	MH	65.00	100.00	65.00	1,040.00
Z-SHEE	Sheet Metal Workers	2.00	32.00	MH	70.15	100.00	70.15	2,244.80

Activity: 077233101137 Roof hatch, 3'1"x11'6", USF fabrication (Unreviewed) Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2,426.40	0.00	2,426.40	811.10	5,987.72	0.00	0.00	9,225.22
Total	2,426.40	0.00	2,426.40	811.10	5,987.72	0.00	0.00	9,225.22

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3,237.5000	8.0000	0.1250	404.6875	1.0000	1.0000	1.0000	9,225.2200

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
40.0000	0.0250	40.0000	60.6600	2,426.4000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS858 (Mod) RS Means Crew G3 Prod: US 1 Eff: 100.00 Crew Hrs: 8.00 Labor Pcs: 5.00 Equipment Pcs: 3.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z07721085	Roof hatch, with curb, 1" fiberglass insulation, a	1.00	1.00	EA	5,596.00	107.00	5,987.72	5,987.72
8Z5433402065	A.T. Forklift, 31' reach, 45' lift	1.00	8.00	HR	84.16	100.00	84.16	673.26
8Z5433603900	Hand Tools	2.00	16.00	HR	8.62	100.00	8.62	137.84
Z-CLAB	Common Building Laborers	2.00	16.00	MH	49.00	100.00	49.00	784.00
Z-EQMD	Equipment Operators, Medium Equipment	1.00	8.00	MH	65.00	100.00	65.00	520.00
Z-SHEE	Sheet Metal Workers	2.00	16.00	MH	70.15	100.00	70.15	1,122.40

Activity: 077233101140 Access Door, 5'X5' W-APD USF fabrication (Unreviewed) Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2,426.40	0.00	2,426.40	811.10	36,858.29	0.00	0.00	40,095.79
Total	2,426.40	0.00	2,426.40	811.10	36,858.29	0.00	0.00	40,095.79

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3,237.5000	8.0000	0.1250	404.6875	1.0000	1.0000	1.0000	40,095.7900

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
40.0000	0.0250	40.0000	60.6600	2,426.4000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS858 (Mod) RS Means Crew G3 Prod: US 1 Eff: 100.00 Crew Hrs: 8.00 Labor Pcs: 5.00 Equipment Pcs: 3.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z07721085	Roof hatch, with curb, 1" fiberglass insulation, a	1.00	1.00	EA	34,447.00	107.00	36,858.29	36,858.29
8Z5433402065	A.T. Forklift, 31' reach, 45' lift	1.00	8.00	HR	84.16	100.00	84.16	673.26
8Z5433603900	Hand Tools	2.00	16.00	HR	8.62	100.00	8.62	137.84
Z-CLAB	Common Building Laborers	2.00	16.00	MH	49.00	100.00	49.00	784.00
Z-EQMD	Equipment Operators, Medium Equipment	1.00	8.00	MH	65.00	100.00	65.00	520.00
Z-SHEE	Sheet Metal Workers	2.00	16.00	MH	70.15	100.00	70.15	1,122.40

Activity: 077233101141 Access Door, 3'X5' W-APS USF fabrication (Unreviewed) Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2,426.40	0.00	2,426.40	811.10	15,984.73	0.00	0.00	19,222.23
Total	2,426.40	0.00	2,426.40	811.10	15,984.73	0.00	0.00	19,222.23

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3,237.5000	8.0000	0.1250	404.6875	1.0000	1.0000	1.0000	19,222.2300

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
40.0000	0.0250	40.0000	60.6600	2,426.4000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS858 (Mod) RS Means Crew G3 Prod: US 1 Eff: 100.00 Crew Hrs: 8.00 Labor Pcs: 5.00 Equipment Pcs: 3.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z07721085	Roof hatch, with curb, 1" fiberglass insulation, a	1.00	1.00	EA	14,939.00	107.00	15,984.73	15,984.73
8Z5433402065	A.T. Forklift, 31' reach, 45' lift	1.00	8.00	HR	84.16	100.00	84.16	673.26
8Z5433603900	Hand Tools	2.00	16.00	HR	8.62	100.00	8.62	137.84
Z-CLAB	Common Building Laborers	2.00	16.00	MH	49.00	100.00	49.00	784.00
Z-EQMD	Equipment Operators, Medium Equipment	1.00	8.00	MH	65.00	100.00	65.00	520.00
Z-SHEE	Sheet Metal Workers	2.00	16.00	MH	70.15	100.00	70.15	1,122.40

Activity: 077233101142 Access Door 3'X3', W-APD USF fabrication (Unreviewed) Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2,426.40	0.00	2,426.40	811.10	10,671.11	0.00	0.00	13,908.61
Total	2,426.40	0.00	2,426.40	811.10	10,671.11	0.00	0.00	13,908.61

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3,237.5000	8.0000	0.1250	404.6875	1.0000	1.0000	1.0000	13,908.6100

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
40.0000	0.0250	40.0000	60.6600	2,426.4000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS858 (Mod) RS Means Crew G3 Prod: US 1 Eff: 100.00 Crew Hrs: 8.00 Labor Pcs: 5.00 Equipment Pcs: 3.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z07721085	Roof hatch, with curb, 1" fiberglass insulation, a	1.00	1.00	EA	9,973.00	107.00	10,671.11	10,671.11
8Z5433402065	A.T. Forklift, 31' reach, 45' lift	1.00	8.00	HR	84.16	100.00	84.16	673.26
8Z5433603900	Hand Tools	2.00	16.00	HR	8.62	100.00	8.62	137.84
Z-CLAB	Common Building Laborers	2.00	16.00	MH	49.00	100.00	49.00	784.00
Z-EQMD	Equipment Operators, Medium Equipment	1.00	8.00	MH	65.00	100.00	65.00	520.00
Z-SHEE	Sheet Metal Workers	2.00	16.00	MH	70.15	100.00	70.15	1,122.40

Activity: 02321300 P.E. Calculations & Freight (Unreviewed) Quantity: 1.00 Unit: LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.00	0.00	0.00	0.00	0.00	7,896.60	950.00	8,846.60
Total	0.00	0.00	0.00	0.00	0.00	7,896.60	950.00	8,846.60

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Notes: Subsurface Drilling And Sampling

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3PECALC	P.E. Calculations	1.00	41.00	HRS	180.00	107.00	192.60	7,896.60
4FREIGHT	Freight	1.00	1.00	LS	950.00	100.00	950.00	950.00

Biditem

720

Demolition

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	82,479.60	0.00	82,479.60	78,982.12	26.75	8,025.00	0.00	169,513.47
Total	82,479.60	0.00	82,479.60	78,982.12	26.75	8,025.00	0.00	169,513.47

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
1,512.0000	0.0007	1,512.0000	112.1121	54.5500	54.5500	0.0031

Activity: 412213130125Remove overhead bridge crane, incl beams(Unreviewed)Quantity: 1.00Unit: LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	16,639.60	0.00	16,639.60	2,769.20	0.00	0.00	0.00	19,408.80
Total	16,639.60	0.00	16,639.60	2,769.20	0.00	0.00	0.00	19,408.80

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
19,408.8000	40.0000	0.0250	485.2200	5.0000	0.2000	5.0000	3,881.7600

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
320.0000	0.0031	320.0000	51.9988	16,639.6000

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS-M3 (Mod) RSMeans - M3 CrewProd: US 0.2Eff: 100.00Crew Hrs: 40.00Labor Pcs: 8.00Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8RS-603050	S.P. Crane, 4x4, 20 Ton	1.00	40.00	HR	69.23	100.00	69.23	2,769.20
RS-CLAB	Common Building Laborers	4.00	160.00	MH	39.15	100.00	39.15	6,264.00
RS-ELECO	Electrician Foreman (outside)	1.00	40.00	MH	58.60	100.00	58.60	2,344.00
RS-ELEV	Elevator Constructors	1.00	40.00	MH	81.80	100.00	81.80	3,272.00
RS-ELEVA	Elevator Apprentice	1.00	40.00	MH	65.44	100.00	65.44	2,617.60
RS-EQMD	Equipment Operators, Medium Equipment	1.00	40.00	MH	53.55	100.00	53.55	2,142.00

Activity: 030505100070Selective concrete demolition, Pump Room Slab & Pedestals(Unreviewed)Quantity: 5.00Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1,964.00	0.00	1,964.00	3,671.24	0.00	0.00	0.00	5,635.24
Total	9,820.00	0.00	9,820.00	18,356.20	0.00	0.00	0.00	28,176.20

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
5,635.2400	8.0000	0.1250	704.4050	5.0000	1.0000	1.0000	5,635.2400

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
200.0000	0.0250	40.0000	49.1000	1,964.0000

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS628 (Mod) RS Means Crew B9Prod: US 1Eff: 100.00Crew Hrs: 40.00Labor Pcs: 5.00Equipment Pcs: 9.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
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8Z5433200325	Hyd. Excavator, 3.5 C.Y.	1.00	40.00	HR	299.31	100.00	299.31	11,972.20
8Z5433200346	Hyd. Hammer, 4000 ft-lb	1.00	40.00	HR	89.38	100.00	89.38	3,575.16
8Z5433400400	Air Compressor, 250 cfm	1.00	40.00	HR	24.54	100.00	24.54	981.40
8Z5433401200	50' Air Hoses, 1.5"	2.00	80.00	HR	2.95	100.00	2.95	236.00
8Z5433406250	Wall Saw, Hydraulic, 10 H.P.	1.00	40.00	HR	13.94	100.00	13.94	557.64
8Z5433603900	Hand Tools	3.00	120.00	HR	8.62	100.00	8.62	1,033.80
Z-CLAB	Common Building Laborers	4.00	160.00	MH	49.00	100.00	49.00	7,840.00
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	40.00	MH	49.50	100.00	49.50	1,980.00

Activity: 030505100080 Selective concrete demolition, Slab 10" and misc (Unreviewed) Quantity: 40.00 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	245.50	0.00	245.50	458.91	0.00	0.00	0.00	704.41
Total	9,820.00	0.00	9,820.00	18,356.20	0.00	0.00	0.00	28,176.20

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
704.4050	1.0000	1.0000	704.4050	5.0000	8.0000	0.1250	5,635.2400

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
200.0000	0.2000	5.0000	49.1000	245.5000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS628 (Mod) RS Means Crew B9 Prod: US 8 Eff: 100.00 Crew Hrs: 40.00 Labor Pcs: 5.00 Equipment Pcs: 9.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8Z5433200325	Hyd. Excavator, 3.5 C.Y.	1.00	40.00	HR	299.31	100.00	299.31	11,972.20
8Z5433200346	Hyd. Hammer, 4000 ft-lb	1.00	40.00	HR	89.38	100.00	89.38	3,575.16
8Z5433400400	Air Compressor, 250 cfm	1.00	40.00	HR	24.54	100.00	24.54	981.40
8Z5433401200	50' Air Hoses, 1.5"	2.00	80.00	HR	2.95	100.00	2.95	236.00
8Z5433406250	Wall Saw, Hydraulic, 10 H.P.	1.00	40.00	HR	13.94	100.00	13.94	557.64
8Z5433603900	Hand Tools	3.00	120.00	HR	8.62	100.00	8.62	1,033.80
Z-CLAB	Common Building Laborers	4.00	160.00	MH	49.00	100.00	49.00	7,840.00
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	40.00	MH	49.50	100.00	49.50	1,980.00

Activity: 030505100090 Selective concrete demolition, Equipment Pad (Unreviewed) Quantity: 4.00 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	491.00	0.00	491.00	917.81	0.00	0.00	0.00	1,408.81
Total	1,964.00	0.00	1,964.00	3,671.24	0.00	0.00	0.00	5,635.24

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1,408.8100	2.0000	0.5000	704.4050	1.0000	4.0000	0.2500	5,635.2400

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
40.0000	0.1000	10.0000	49.1000	491.0000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS628 (Mod) RS Means Crew B9 Prod: US 4 Eff: 100.00 Crew Hrs: 8.00 Labor Pcs: 5.00 Equipment Pcs: 9.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8Z5433200325	Hyd. Excavator, 3.5 C.Y.	1.00	8.00	HR	299.31	100.00	299.31	2,394.44
8Z5433200346	Hyd. Hammer, 4000 ft-lb	1.00	8.00	HR	89.38	100.00	89.38	715.03
8Z5433400400	Air Compressor, 250 cfm	1.00	8.00	HR	24.54	100.00	24.54	196.28
8Z5433401200	50' Air Hoses, 1.5"	2.00	16.00	HR	2.95	100.00	2.95	47.20
8Z5433406250	Wall Saw, Hydraulic, 10 H.P.	1.00	8.00	HR	13.94	100.00	13.94	111.53
8Z5433603900	Hand Tools	3.00	24.00	HR	8.62	100.00	8.62	206.76
Z-CLAB	Common Building Laborers	4.00	32.00	MH	49.00	100.00	49.00	1,568.00
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	8.00	MH	49.50	100.00	49.50	396.00

Activity: 050505100380	Selective metals demolition, manufactured or fabricated specialty item, 121-500lb, hatches and cover	(Unreviewed)	Quantity: 25.00	Unit: EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	611.52	0.00	611.52	347.24	0.00	0.00	0.00	958.76
Total	15,288.00	0.00	15,288.00	8,681.04	0.00	0.00	0.00	23,969.04

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
958.7616	3.2000	0.3125	299.6130	10.0000	2.5000	0.4000	2,396.9040

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
240.0000	0.1042	9.6000	63.7000	611.5200

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS816 RS Means Crew E19 Prod: US 2.5 Eff: 100.00 Crew Hrs: 80.00 Labor Pcs: 3.00 Equipment Pcs: 1.00

Notes: Metal Covers/hatches

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8Z5433601600	Lattice Boom Crane, 20 Ton	1.00	80.00	HR	108.51	100.00	108.51	8,681.04
Z-EQLT	Equipment Operators, Light Equipment	1.00	80.00	MH	62.00	100.00	62.00	4,960.00
Z-SSWK	Structural Steel Workers	1.00	80.00	MH	64.55	100.00	64.55	5,164.00
Z-SSWK-FORO	Structural Steel Workers - Foreman	1.00	80.00	MH	64.55	100.00	64.55	5,164.00

Activity: 312323200054	Cycle hauling(wait, load, travel, unload or dump & return) time per cycle, excavated or borrow, loos	(Unreviewed)	Quantity: 50.00	Unit: LDS
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	547.60	0.00	547.60	542.96	0.00	160.50	0.00	1,251.06
Total	27,380.00	0.00	27,380.00	27,148.24	0.00	8,025.00	0.00	62,553.24

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1,090.5648	1.6000	0.6250	681.6030	10.0000	5.0000	0.2000	6,255.3240

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
480.0000	0.1042	9.6000	57.0417	547.6000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS356 (Mod) RS Means Crew B34A Prod: US 5 Eff: 100.00 Crew Hrs: 80.00 Labor Pcs: 6.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3DUMPFEE	Dump Fee	1.00	50.00	LD	150.00	107.00	160.50	8,025.00
8Z5433204400	F.E. Loader, T.M., 1.5 C.Y.	1.00	80.00	HR	78.42	100.00	78.42	6,273.84
8Z5433205250	Dump Truck, 8 C.Y., 220 H.P.	5.00	400.00	HR	52.19	100.00	52.19	20,874.40
Z-EQMD	Equipment Operators, Medium Equipment	1.00	80.00	MH	65.00	100.00	65.00	5,200.00
Z-TRHV	Truck Drivers, Heavy	5.00	400.00	MH	55.45	100.00	55.45	22,180.00

Activity: 080505100980	Door demolition, interior metal door and ladder	(Unreviewed)	Quantity: 1.00	Unit: LS
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1,176.00	0.00	1,176.00	0.00	26.75	0.00	0.00	1,202.75
Total	1,176.00	0.00	1,176.00	0.00	26.75	0.00	0.00	1,202.75

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1,176.0000	24.0000	0.0417	49.0000	3.0000	0.3333	3.0000	400.9167

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
24.0000	0.0417	24.0000	49.0000	1,176.0000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1140 RS Means Crew CLAB Prod: US 0.3333 Eff: 100.00 Crew Hrs: 24.00 Labor Pcs: 1.00 Equipment Pcs: 0.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z08051045	Door demolition, interior metal door, 1-3/4" x 3'-	1.00	1.00	EA	25.00	107.00	26.75	26.75
Z-CLAB	Common Building Laborers	1.00	24.00	MH	49.00	100.00	49.00	1,176.00

Activity: 080505200400

Louver demolition, aluminum, includes trim

(Unreviewed)

Quantity: 1.00

Unit: EA

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
392.0000	8.0000	0.1250	49.0000	1.0000	1.0000	1.0000	392.0000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
8.0000	0.1250	8.0000	49.0000	392.0000

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS1140

RS Means Crew CLAB

Prod: US 1

Eff: 100.00

Crew Hrs: 8.00

Labor Pcs: 1.00

Equipment Pcs: 0.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
Z-CLAB	Common Building Laborers	1.00	8.00	MH	49.00	100.00	49.00	392.00

Biditem - Parent

730

Structural Rehab

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	122,696.96	0.00	122,696.96	42,183.09	92,517.53	0.00	0.00	257,397.58
Total	122,696.96	0.00	122,696.96	42,183.09	92,517.53	0.00	0.00	257,397.58

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
2,046.0500	0.0005	2,046.0500	125.8022	59.9677	59.9677	0.0000

Biditem

732

Beams (12"-24" x1'-10")

Takeoff Qty: 423.000 LF

Bid Qty: 423.000 LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	112.24	0.00	112.24	8.39	51.75	0.00	0.00	172.38
Total	47,478.40	0.00	47,478.40	3,547.39	21,891.98	0.00	0.00	72,917.77

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
840.0000	0.5036	1.9858	86.8069	56.5219	56.5219	1.6523

Activity: 031113201500

C.I.P. concrete forms, beams and girders, exterior spandrel, plywood, 24" wide,1 use, includes shori

(Unreviewed)

Quantity: 2095.00

Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	6.53	0.00	6.53	0.00	4.91	0.00	0.00	11.44
Total	13,680.00	0.00	13,680.00	0.00	10,289.17	0.00	0.00	23,969.17

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
6.5298	0.0191	52.3750	342.0000	5.0000	419.0000	0.0024	4,793.8340

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
240.0000	8.7292	0.1146	57.0000	6.5298

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS718

RS Means Crew C2

Prod: US 419

Eff: 100.00

Crew Hrs: 40.00

Labor Pcs: 6.00

Equipment Pcs: 0.00

Notes:

C.I.P. concrete forms, beams and girders, exterior spandrel, plywood, 24" wide,1 use, includes shoring, erecting, bracing, stripSFCA

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
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2Z03111185	C.I.P. concrete forms, beams and girders, exterior	1.00	2,095.00	SF	4.59	107.00	4.91	10,289.17
Z-CARP	Carpenters	4.00	160.00	MH	58.60	100.00	58.60	9,376.00
Z-CARP-FORO	Carpenters - Foreman	1.00	40.00	MH	58.60	100.00	58.60	2,344.00
Z-CLAB	Common Building Laborers	1.00	40.00	MH	49.00	100.00	49.00	1,960.00

Activity: 031505122000 Chamfer strip, polyvinyl chloride, 1/2" wide with leg (Unreviewed) Quantity: 846.00 Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.66	0.00	1.66	0.00	1.01	0.00	0.00	2.67
Total	1,406.40	0.00	1,406.40	0.00	850.91	0.00	0.00	2,257.31

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1.6624	0.0284	35.2500	58.6000	3.0000	282.0000	0.0035	752.4367

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
24.0000	35.2500	0.0284	58.6000	1.6624

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1146 RS Means Crew CARP Prod: US 282 Eff: 100.00 Crew Hrs: 24.00 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Chamfer strip, polyvinyl chloride, 1/2" wide with leg

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03151000	Chamfer strip, polyvinyl chloride, 1/2" wide with	1.00	846.00	LF	0.94	107.00	1.01	850.91
Z-CARP	Carpenters	1.00	24.00	MH	58.60	100.00	58.60	1,406.40

Activity: 032111600150 Reinforcing steel, in place, beams and girders, #8 to #18, A615, grade 60, incllabor for accessories (Unreviewed) Quantity: 2.30 Unit: TON

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4,490.43	0.00	4,490.43	0.00	1,524.75	0.00	0.00	6,015.19
Total	10,328.00	0.00	10,328.00	0.00	3,506.93	0.00	0.00	13,834.93

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
4,490.4348	34.7826	0.0288	129.1000	10.0000	0.2300	4.3478	1,383.4930

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
160.0000	0.0144	69.5652	64.5500	4,490.4348

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1150 (Mod) RS Means Crew RODM Prod: US 0.23 Eff: 100.00 Crew Hrs: 80.00 Labor Pcs: 2.00 Equipment Pcs: 0.00

Notes: Reinforcing steel, in place, beams and girders, #8 to #18, A615, grade 60, incllabor for accessories, excl material for accessorTon

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03211955	Reinforcing steel, in place, beams and girders, #8	1.00	2.30	TON	1,425.00	107.00	1,524.75	3,506.93
Z-RODM	Rodmen (Reinforcing)	2.00	160.00	MH	64.55	100.00	64.55	10,328.00

Activity: 033113350300 Structural concrete, ready mix, heavyweight, 4000 psi, includes local aggregate, sand, Portland ceme (Unreviewed) Quantity: 37.00 Unit: CY

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Notes: Structural concrete, ready mix, heavyweight, 4000 psi, includes local aggregate, sand, Portland cement (Type I) and water, delivC.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03311095	Structural concrete, ready mix, heavyweight, 4000	1.00	37.00	CY	183.00	107.00	195.81	7,244.97

Activity: 033113700200 Structural concrete, placing, beam, large, elevated, pumped, includes leveling (strike off) & consol (Unreviewed) Quantity: 37.00 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	358.49	0.00	358.49	95.88	0.00	0.00	0.00	454.36
Total	13,264.00	0.00	13,264.00	3,547.39	0.00	0.00	0.00	16,811.39

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
454.3619	0.8649	1.1563	525.3559	4.0000	9.2500	0.1081	4,202.8475

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
256.0000	0.1445	6.9189	51.8125	358.4865

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew:RS720RS Means Crew C20Prod: US9.25Eff: 100.00Crew Hrs: 32.00Labor Pcs: 8.00Equipment Pcs: 3.00

Notes:Structural concrete, placing, beam, large, elevated, pumped, includes leveling (strike off) & consolidation, excludes material

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8Z5433102120	Concrete Pump (Small)	1.00	32.00	HR	103.44	100.00	103.44	3,309.95
8Z5433103000	Gas Engine Vibrator	2.00	64.00	HR	3.71	100.00	3.71	237.44
Z-CEFI	Cement Finishers	1.00	32.00	MH	55.00	100.00	55.00	1,760.00
Z-CLAB	Common Building Laborers	5.00	160.00	MH	49.00	100.00	49.00	7,840.00
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	32.00	MH	49.50	100.00	49.50	1,584.00
Z-EQMD	Equipment Operators, Medium Equipment	1.00	32.00	MH	65.00	100.00	65.00	2,080.00

Activity: 033529304500	Concrete finishing, stairs, fresh concrete, steel trowel	(Unreviewed)	Quantity: 2095.00	Unit: SF
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Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
4.2005	0.0382	26.1875	110.0000	10.0000	209.5000	0.0048	880.0000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
160.0000	13.0938	0.0764	55.0000	4.2005

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew:RS1195 (Mod) RS Means Crew CEFIProd: US209.5Eff: 100.00Crew Hrs: 80.00Labor Pcs: 2.00Equipment Pcs: 0.00

Notes:Concrete finishing, stairs, fresh concrete, steel trowel

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
Z-CEFI	Cement Finishers	2.00	160.00	MH	55.00	100.00	55.00	8,800.00

Biditem

734

10" Elevated Slab

Takeoff Qty: 694.000 SF

Bid Qty: 694.000 SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	34.19	0.00	34.19	0.24	68.78	0.00	0.00	103.21
Total	23,730.20	0.00	23,730.20	168.50	47,731.83	0.00	0.00	71,630.53

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
405.1200	1.7131	0.5837	176.8131	58.5757	58.5757	2.8622

Activity: 031113351000	C.I.P. concrete forms, elevated slab, flat plate, plywood, to 15' high, 1	(Unreviewed)	Quantity: 694.00	Unit: SF
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Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
11.83	0.00	11.83	0.00	8.56	0.00	0.00	20.39
8,208.00	0.00	8,208.00	0.00	5,940.64	0.00	0.00	14,148.64

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
11.8271	0.0346	28.9167	342.0000	3.0000	231.3333	0.0043	4,716.2133

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
144.0000	4.8194	0.2075	57.0000	11.8271

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS718 RS Means Crew C2 Prod: US 231.3333 Eff: 100.00 Crew Hrs: 24.00 Labor Pcs: 6.00 Equipment Pcs: 0.00

Notes: C.I.P. concrete forms, elevated slab, flat plate, plywood, to 15' high, 1 use, includes shoring, erecting, bracing, stripping anS.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03111640	C.I.P. concrete forms, elevated slab, flat plate,	1.00	694.00	SF	8.00	107.00	8.56	5,940.64
Z-CARP	Carpenters	4.00	96.00	MH	58.60	100.00	58.60	5,625.60
Z-CARP-FORO	Carpenters - Foreman	1.00	24.00	MH	58.60	100.00	58.60	1,406.40
Z-CLAB	Common Building Laborers	1.00	24.00	MH	49.00	100.00	49.00	1,176.00

Activity: 031513500500 Waterstop, PVC, ribbed, with center bulb, 3/16" thick x 6" wide (Unreviewed) Quantity: 694.00 Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	3.46	0.00	3.46	0.00	2.42	0.00	0.00	5.88
Total	2,399.67	0.00	2,399.67	0.00	1,678.23	0.00	0.00	4,077.90

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3.4577	0.0590	16.9492	58.6057	5.1183	135.5932	0.0074	796.7372

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
40.9500	16.9475	0.0590	58.6000	3.4577

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1146 RS Means Crew CARP Prod: US 135.5932 Eff: 100.00 Crew Hrs: 40.95 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Waterstop, PVC, ribbed, with center bulb, 3/16" thick x 6" wide

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03152180	Waterstop, PVC, ribbed, with center bulb, 3/16" th	1.00	694.00	LF	2.26	107.00	2.42	1,678.23
Z-CARP	Carpenters	1.00	40.95	MH	58.60	100.00	58.60	2,399.67

Activity: 032111600400 Reinforcing steel, in place, elevated slabs, #4 to #7, A615, grade 60, incl labor for accessories, e (Unreviewed) Quantity: 3.80 Unit: TON

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1,358.95	0.00	1,358.95	0.00	1,905.94	0.00	0.00	3,264.88
Total	5,164.00	0.00	5,164.00	0.00	7,242.56	0.00	0.00	12,406.56

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1,358.9474	21.0526	0.0475	64.5500	10.0000	0.3800	2.6316	1,240.6560

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
80.0000	0.0475	21.0526	64.5500	1,358.9474

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1150 RS Means Crew RODM Prod: US 0.38 Eff: 100.00 Crew Hrs: 80.00 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Reinforcing steel, in place, elevated slabs, #4 to #7, A615, grade 60, incl labor for accessories, excl material for accessoriesTon

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03212015	Reinforcing steel, in place, elevated slabs, #4 to	1.25	4.75	TON	1,425.00	107.00	1,524.75	7,242.56
Z-RODM	Rodmen (Reinforcing)	1.00	80.00	MH	64.55	100.00	64.55	5,164.00

Activity: 033113350350 Structural concrete, ready mix, heavyweight, 4500 psi, includes local aggregate, sand, Portland ceme (Unreviewed) Quantity: 32.00 Unit: CY

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Notes: Structural concrete, ready mix, heavyweight, 4500 psi, includes local aggregate, sand, Portland cement (Type I) and water, delivC.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03311100	Structural concrete, ready mix, heavyweight, 4500	1.00	32.00	CY	185.00	107.00	197.95	6,334.40

Activity: 033529600150	Concrete finishing, slab, carborundum rub, wet, includes breaking ties and patching voids	(Unreviewed)	Quantity: 694.00	Unit: SF
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Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3.8040	0.0231	43.3750	165.0000	2.0000	347.0000	0.0029	1,320.0000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
48.0000	14.4583	0.0692	55.0000	3.8040

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1195 (Mod) RS Means Crew CEFI Prod: US 347 Eff: 100.00 Crew Hrs: 16.00 Labor Pcs: 3.00 Equipment Pcs: 0.00

Notes: Concrete finishing, walls, carborundum rub, wet, includes breaking ties and patching voids

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
Z-CEFI	Cement Finishers	3.00	48.00	MH	55.00	100.00	55.00	2,640.00

Activity: 033113701500	Structural concrete, placing, elevated slab, pumped, 6" to 10" thick, includes leveling (strike off)	(Unreviewed)	Quantity: 33.00	Unit: CY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	19.11	0.00	19.11	5.11	0.00	0.00	0.00	24.21
Total	630.53	0.00	630.53	168.50	0.00	0.00	0.00	799.03

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
24.2130	0.0461	21.6877	525.1249	0.1902	173.5016	0.0058	4,200.9989

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
12.1700	2.7116	0.3688	51.8102	19.1070

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS720 RS Means Crew C20 Prod: US 173.5016 Eff: 100.00 Crew Hrs: 1.52 Labor Pcs: 8.00 Equipment Pcs: 3.00

Notes: Structural concrete, placing, elevated slab, pumped, 6" to 10" thick, includes leveling (strike off) & consolidation, excludes mC.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8Z5433102120	Concrete Pump (Small)	1.00	1.52	HR	103.44	100.00	103.43	157.22
8Z5433103000	Gas Engine Vibrator	2.00	3.04	HR	3.71	100.00	3.71	11.28
Z-CEFI	Cement Finishers	1.00	1.52	MH	55.00	100.00	55.00	83.60
Z-CLAB	Common Building Laborers	5.00	7.61	MH	49.00	100.00	49.00	372.89
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	1.52	MH	49.50	100.00	49.50	75.24
Z-EQMD	Equipment Operators, Medium Equipment	1.00	1.52	MH	65.00	100.00	65.00	98.80

Activity: 031505701100	Shores, vertical members, to 16' high, includes erect and strip by hand	(Unreviewed)	Quantity: 60.00	Unit: EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	78.13	0.00	78.13	0.00	160.50	0.00	0.00	238.63
Total	4,688.00	0.00	4,688.00	0.00	9,630.00	0.00	0.00	14,318.00

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
78.1333	1.3333	0.7500	58.6000	10.0000	6.0000	0.1667	1,431.8000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
80.0000	0.7500	1.3333	58.6000	78.1333

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1146 RS Means Crew CARP Prod: US 6 Eff: 100.00 Crew Hrs: 80.00 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Shores, vertical members, to 16' high, includes erect and strip by hand

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03151310	Shores, vertical members, to 16' high, includes er	1.00	60.00	EA	150.00	107.00	160.50	9,630.00
Z-CARP	Carpenters	1.00	80.00	MH	58.60	100.00	58.60	4,688.00

Activity: 031505701940	Shores, horizontal members, steel beam, W8x10, 20' span, buy	(Unreviewed)	Quantity: 40.00	Unit: EA
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Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Notes: Shores, horizontal members, steel beam, W8x10, 20' span, buy

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03151350	Shores, horizontal members, steel beam, W8x10, 20'	1.00	40.00	EA	395.00	107.00	422.65	16,906.00

Biditem736

Access Platform

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	51,488.36	0.00	51,488.36	38,467.20	22,893.72	0.00	0.00	112,849.28
Total	51,488.36	0.00	51,488.36	38,467.20	22,893.72	0.00	0.00	112,849.28

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
800.9300	0.0012	800.9300	140.8978	64.2857	64.2857	0.0087

Activity: 051223176800	Column, structural, 2-tier, W8x24, A992 steel, incl shop primer, splice plates,bolts	(Unreviewed)	Quantity: 400.00	Unit: LF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	83.72	0.00	83.72	62.55	46.55	0.00	0.00	192.81
Total	33,488.36	0.00	33,488.36	25,019.48	18,618.00	0.00	0.00	77,125.84

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
146.2696	0.1860	5.3750	786.1991	9.3023	43.0000	0.0233	8,291.0283

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
520.9300	0.7679	1.3023	64.2857	83.7209

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS818 RS Means Crew E2Prod: US 43Eff: 100.00Crew Hrs: 74.42Labor Pcs: 7.00Equipment Pcs: 1.00

Notes: Column, structural, 2-tier, W8x24, A992 steel, incl shop primer, splice plates,bolts

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z05121250	Column, structural, 2-tier, W8x24, A992 steel, inc	1.00	400.00	LF	43.50	107.00	46.55	18,618.00
8Z5433602100	Lattice Boom Crane, 90 Ton	1.00	74.42	HR	336.19	100.00	336.19	25,019.48
Z-EQHV	Equipment Operators, Crane or Shovel	1.00	74.42	MH	68.85	100.00	68.85	5,123.82
Z-EQOL	Equipment Operators, Oilers	1.00	74.42	MH	58.40	100.00	58.40	4,346.13
Z-SSWK	Structural Steel Workers	4.00	297.67	MH	64.55	100.00	64.55	19,214.60
Z-SSWK-FORO	Structural Steel Workers - Foreman	1.00	74.42	MH	64.55	100.00	64.55	4,803.81

Activity: 055313700652	Floor grating, steel, painted, 2-1/4" x 3/16" bearing bars @ 15/16" OC, cross bars @ 4" OC, up to 30	(Unreviewed)	Quantity: 148.00	Unit: SF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	121.62	0.00	121.62	90.86	28.89	0.00	0.00	241.37
Total	18,000.00	0.00	18,000.00	13,447.72	4,275.72	0.00	0.00	35,723.44

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
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212.4846	0.2703	3.7000	786.1930	5.0000	29.6000	0.0338	7,144.6880
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Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
280.0000	0.5286	1.8919	64.2857	121.6216

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew:	RS818	RS Means Crew E2	Prod: US	29.6	Eff: 100.00	Crew Hrs: 40.00	Labor Pcs: 7.00	Equipment Pcs: 1.00
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Notes: Floor grating, steel, painted, 2-1/4" x 3/16" bearing bars @ 15/16" OC, cross bars @ 4" OC, up to 300 S.F., field fabricated froS.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z05531320	Floor grating, steel, painted, 2 -1/4" x 3/16" bear	1.00	148.00	SF	27.00	107.00	28.89	4,275.72
8Z5433602100	Lattice Boom Crane, 90 Ton	1.00	40.00	HR	336.19	100.00	336.19	13,447.72
Z-EQHV	Equipment Operators, Crane or Shovel	1.00	40.00	MH	68.85	100.00	68.85	2,754.00
Z-EQOL	Equipment Operators, Oilers	1.00	40.00	MH	58.40	100.00	58.40	2,336.00
Z-SSWK	Structural Steel Workers	4.00	160.00	MH	64.55	100.00	64.55	10,328.00
Z-SSWK-FORO	Structural Steel Workers - Foreman	1.00	40.00	MH	64.55	100.00	64.55	2,582.00

Biditem

Protective Coatings

740

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	51,924.13	0.00	51,924.13	10,591.06	81,380.19	0.00	0.00	143,895.38
Total	51,924.13	0.00	51,924.13	10,591.06	81,380.19	0.00	0.00	143,895.38

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
977.1400	0.0010	977.1400	147.2618	53.1389	53.1389	0.0047

Activity: 090505208100	Coating demolition, remove bead blast	(Unreviewed)	Quantity: 4500.00	Unit: SF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.81	0.00	1.81	0.16	0.09	0.00	0.00	2.06
Total	8,164.20	0.00	8,164.20	738.49	385.20	0.00	0.00	9,287.89

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1.9784	0.0057	174.9999	346.2155	3.2143	1,399.9992	0.0007	2,889.5642

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
128.5700	35.0004	0.0286	63.5000	1.8143

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS022 (Mod) RS Means Crew A1A Prod: US 1399.9992 Eff: 100.00 Crew Hrs: 25.71 Labor Pcs: 5.00 Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z09051270	Flooring demolition, remove flooring, complex floo	1.00	4,500.00	SF	0.08	107.00	0.09	385.20
8Z5433406275	Shot Blaster, 20"	1.00	25.71	HR	28.72	100.00	28.72	738.49
Z-SKWK	Skilled Workers Average (35 trades)	5.00	128.57	MH	63.50	100.00	63.50	8,164.20

Activity: 090505303520	Hydroblasting coating removal	(Unreviewed)	Quantity: 45.00	Unit: SY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	140.00	0.00	140.00	51.34	0.54	0.00	0.00	191.87
Total	6,299.93	0.00	6,299.93	2,310.25	24.08	0.00	0.00	8,634.26

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
191.3373	0.5714	1.7500	334.8401	3.2143	14.0000	0.0714	2,686.2127

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
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128.5700	0.3500	2.8571	49.0000	139.9984
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Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS1140 (Mod) RS Means Crew CLAB

Prod: US 14

Eff: 100.00

Crew Hrs: 25.71

Labor Pcs: 5.00

Equipment Pcs: 3.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z09051455	Coating removal, agent and misc	1.00	45.00	SY	0.50	107.00	0.54	24.08
8Z5433400600	Air Compressor, 600 cfm	1.00	25.71	HR	58.26	100.00	58.26	1,497.97
8Z5433407250	Crew Truck	1.00	25.71	HR	22.98	100.00	22.98	590.79
8Z5433603900	Hand Tools	1.00	25.71	HR	8.62	100.00	8.61	221.49
Z-CLAB	Common Building Laborers	5.00	128.57	MH	49.00	100.00	49.00	6,299.93

Activity: 030130622430 CPP Trowel-Liner (2 Gal) Kit

(Unreviewed)

Quantity: 2000.00

Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	8.80	0.00	8.80	0.00	12.35	0.00	0.00	21.15
Total	17,600.00	0.00	17,600.00	0.00	24,695.60	0.00	0.00	42,295.60

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
8.8000	0.0400	25.0000	220.0000	10.0000	200.0000	0.0050	4,229.5600

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
320.0000	6.2500	0.1600	55.0000	8.8000

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS1195 (Mod) RS Means Crew CEFI

Prod: US 200

Eff: 100.00

Crew Hrs: 80.00

Labor Pcs: 4.00

Equipment Pcs: 0.00

Notes: TNEMEC ERC3

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03011055	Tnemec ERC3, CPP Trowel-Liner	1.00	2,000.00	SF	11.54	107.00	12.35	24,695.60
Z-CEFI	Cement Finishers	4.00	320.00	MH	55.00	100.00	55.00	17,600.00

Activity: 099123441110 MIC Coating, CPP Sprayliner EC311S

(Unreviewed)

Quantity: 4500.00

Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4.41	0.00	4.41	1.68	12.51	0.00	0.00	18.60
Total	19,860.00	0.00	19,860.00	7,542.32	56,275.31	0.00	0.00	83,677.63

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
6.0894	0.0178	56.2500	342.5290	10.0000	450.0000	0.0022	8,367.7630

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
400.0000	11.2500	0.0889	49.6500	4.4133

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS1199 (Mod) RS Means Crew PORD

Prod: US 450

Eff: 100.00

Crew Hrs: 80.00

Labor Pcs: 5.00

Equipment Pcs: 4.00

Notes: Florida Protective Coatings Services, CPP Sprayliner

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z09912999	CPP Sprayliner, TNEMEC EC311S	1.25	5,625.00	SF	9.35	107.00	10.00	56,275.31
8Z5433400600	Air Compressor, 600 cfm	1.00	80.00	HR	58.26	100.00	58.26	4,661.12
8Z5433403900	Paint Sprayer, 8 C.F.M.	2.00	160.00	HR	6.52	100.00	6.52	1,042.88
8Z5433407250	Crew Truck	1.00	80.00	HR	22.98	100.00	22.98	1,838.32
Z-PORD	Painters, Ordinary	5.00	400.00	MH	49.65	100.00	49.65	19,860.00

Biditem - Parent

PS & Influent Screen Struct Improvements

8

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	450,359.75	17,354.34	467,714.09	344,386.19	7,203,867.52	0.00	1,825,854.34	9,841,822.14
Total	450,359.75	17,354.34	467,714.09	344,386.19	7,203,867.52	0.00	1,825,854.34	9,841,822.14

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
8,124.7200	0.0001	8,124.7200	1,211.3429	55.4308	57.5668	0.0000

Subtotal

Pump Station 28 Items

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Misc 1	Misc 2	Misc 3	Total
Total	2,389,304.54	17,354.34	2,406,658.88	2,087,466.65	8,853,316.67	15,921.60	3,484,545.10	0.00	0.00	0.00	16,847,908.90

Subtotal

Force Main Items

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Misc 1	Misc 2	Misc 3	Total
Total	384,637.30	0.00	384,637.30	213,177.51	692,844.89	0.00	30,000.00	0.00	0.00	0.00	1,320,659.70

Biditem

801

Electrical

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.00	0.00	0.00	0.00	0.00	0.00	459,875.93	459,875.93
Total	0.00	0.00	0.00	0.00	0.00	0.00	459,875.93	459,875.93

Activity: 16011Electrical DevicesQuantity: 1236.00Unit: SF

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Notes: Recptacles, Intrusion Switches, Light Switches

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4ELEC	Electric - Sub	1.00	1,236.00	SF	8.77	100.00	8.77	10,839.72

Activity: 16110Raceway, Conduits, and WiresQuantity: 1236.00Unit: SF

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4ELEC	Electric - Sub	1.00	1,236.00	SF	158.51	100.00	158.51	195,918.36

Activity: 16170GroundingQuantity: 165.79Unit: LF

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4ELEC	Electric - Sub	1.00	165.79	LF	32.34	100.00	32.34	5,361.65

Activity: 16470Panelboards, Disconnects, and TransformersQuantity: 1236.00Unit: SF

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4ELEC	Electric - Sub	1.00	1,236.00	SF	158.51	100.00	158.51	195,918.36

Activity: 16671Interior LightingQuantity: 1236.00Unit: SF

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
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4ELEC	Electric - Sub	1.00	1,236.00	SF	34.89	100.00	34.89	43,124.04
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Activity:	16721	Fire Alarm	Quantity:	1236.00	Unit:	SF
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Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4ELEC	Electric - Sub	1.00	1,236.00	LF	7.05	100.00	7.05	8,713.80

Biditem

803

Telemetry/Instrumentation

Takeoff Qty:1.000 LS

Bid Qty:1.000 LS

Activity:	17698	Instrumentation	Quantity:	1236.00	Unit:	SF
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Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Notes: Contains all conduit, wire, cable, and junction boxes required for signals and controls

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4ELEC	Electric - Sub	1.00	1,236.00	LF	387.47	100.00	387.47	478,912.92

Biditem

805

Ductbank & MH

Takeoff Qty:1.000 LS

Bid Qty:1.000 LS

Activity:	16010	Duct Banks & Manholes	Quantity:	555.98	Unit:	LF
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Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Notes: This item contains 2 Electrical Manhole and 2 Signal Manhole. It also contains all power, control, and FPL duct banks. Duct bank sizes are being assumed as there are many cables running to and from the Electrical Building to the Pump Station Building. The only drawing sheet showing conduit type for dunk banks is sheet E16 for control/signal of the Pump Station Doors and Hatches and sheet E23 PWR1-5, SIG1-5. Drawing sheet E04 has a note stating that duct bank detail does not indicate quantity or sizes of conduits required for duct banks. For a more accurate estimate a detail of ductbank layout with conduit size and wire/cable in each conduit is needed.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4ELEC	Electric - Sub	1.00	556.98	LF	1,560.75	100.00	1,560.75	869,306.54

Biditem

807

Site Lighting

Takeoff Qty:1.000 LS

Bid Qty:1.000 LS

Activity:	16670	Exterior Lighting	Quantity:	5.00	Unit:	EA
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Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4ELEC	Electric - Sub	1.00	5.00	EA	1,951.79	100.00	1,951.79	9,758.95

Biditem

808

Demo Existing Pumps and Piping

Takeoff Qty:1.000 LS

Bid Qty:1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	70,850.00	5,784.78	76,634.78	73,481.42	0.00	0.00	0.00	150,116.20
Total	70,850.00	5,784.78	76,634.78	73,481.42	0.00	0.00	0.00	150,116.20

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
1,392.0000	0.0007	1,392.0000	107.8421	50.8980	55.0537	0.0066

Activity: 221329143160

Demo Pumps and Piping

(Unreviewed)

Quantity: 6.00

Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	9,983.00	964.13	10,947.13	10,437.02	0.00	0.00	0.00	21,384.15
Total	59,898.00	5,784.78	65,682.78	62,622.12	0.00	0.00	0.00	128,304.90

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
21,384.1500	20.0000	0.0500	1,069.2075	15.0000	0.4000	2.5000	8,553.6600

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1,200.0000	0.0050	200.0000	54.7357	9,983.0000

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: PI04

(Mod) Pipe Crew - Large Dia w/ Cra

Prod: SU 2.5

Eff: 100.00

Crew Hrs: 120.00

Labor Pcs: 10.00

Equipment Pcs: 12.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8CRN115	Crane, All-terrain, 115 TN, GROVE GMK4100	1.00	120.00	HR	210.01	100.00	210.01	25,201.68
8EXC320	Excavator, CAT 320L	1.00	120.00	HR	41.33	100.00	41.33	4,959.12
8EXC365	Excavator, CAT 365	1.00	120.00	HR	160.07	100.00	160.07	19,207.80
8FE950	Loader, CAT 950K	1.00	120.00	HR	66.87	100.00	66.87	8,024.16
8SCISSOR35	Scissor Lift, 30-35', 4WV	1.00	120.00	HR	6.96	100.00	6.96	835.32
8SMLTL	Small Tools, Allowance	5.00	600.00	HR	2.84	100.00	2.84	1,704.60
8TKCRW	Pick-up Truck, F-350	2.00	240.00	HR	11.21	100.00	11.21	2,689.44
FGLA	Foreman, Labor General	1.00	120.00	MH	22.20	100.00	31.72	3,806.64
HEC	Oper Excavator, Trackhoe	1.00	120.00	MH	26.25	100.00	40.19	4,822.50
HEC02	Oper Crane, 15 TN to 160 TN	1.00	120.00	MH	42.00	100.00	57.72	6,926.40
HEL	Oper Loader	1.00	120.00	MH	17.70	100.00	26.73	3,207.24
Z-SKWK	Skilled Workers Average (35 trades)	1.00	120.00	MH	63.50	100.00	63.50	7,620.00
Z-SKWK-FORO	Skilled Workers Average (35 trades) - Foreman	5.00	600.00	MH	65.50	100.00	65.50	39,300.00

Activity: 312323200054

Cycle hauling(wait, load, travel, unload or dump & return) time per cycle, excavated or borrow, loos

(Unreviewed)

Quantity: 20.00

Unit: LDS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	547.60	0.00	547.60	542.97	0.00	0.00	0.00	1,090.57
Total	10,952.00	0.00	10,952.00	10,859.30	0.00	0.00	0.00	21,811.30

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1,090.5650	1.6000	0.6250	681.6031	4.0000	5.0000	0.2000	5,452.8250

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
192.0000	0.1042	9.6000	57.0417	547.6000

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS356

(Mod) RS Means Crew B34A

Prod: US 5

Eff: 100.00

Crew Hrs: 32.00

Labor Pcs: 6.00

Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8Z5433204400	F.E. Loader, T.M., 1.5 C.Y.	1.00	32.00	HR	78.42	100.00	78.42	2,509.54
8Z5433205250	Dump Truck, 8 C.Y., 220 H.P.	5.00	160.00	HR	52.19	100.00	52.19	8,349.76
Z-EQMD	Equipment Operators, Medium Equipment	1.00	32.00	MH	65.00	100.00	65.00	2,080.00
Z-TRHV	Truck Drivers, Heavy	5.00	160.00	MH	55.45	100.00	55.45	8,872.00

Biditem

809

Sump Pumps

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
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U. Cost	8,069.60	0.00	8,069.60	0.00	28,890.00	0.00	0.00	36,959.60
Total	8,069.60	0.00	8,069.60	0.00	28,890.00	0.00	0.00	36,959.60

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
112.0000	0.0089	112.0000	329.9964	72.0500	72.0500	0.0179

Activity: 221429132020

Pump, Sump, 60 GPM, Stations 1 and 2

(Unreviewed)

Quantity: 4.00

Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1,441.00	0.00	1,441.00	0.00	5,885.00	0.00	0.00	7,326.00
Total	5,764.00	0.00	5,764.00	0.00	23,540.00	0.00	0.00	29,304.00

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1,441.0000	10.0000	0.1000	144.1000	5.0000	0.8000	1.2500	5,860.8000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
80.0000	0.0500	20.0000	72.0500	1,441.0000

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS934

RS Means Crew Q1

Prod: US

0.8

Eff: 100.00

Crew Hrs: 40.00

Labor Pcs: 2.00

Equipment Pcs: 0.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z22141270	Pump, pedestal sump, single stage, 75 GPM, 1-1/2 H	1.00	4.00	EA	5,500.00	107.00	5,885.00	23,540.00
Z-PLUM	Plumbers	1.00	40.00	MH	72.05	100.00	72.05	2,882.00
Z-PLUM-APPR	Plumbers - Apprentice	1.00	40.00	MH	72.05	100.00	72.05	2,882.00

Activity: 221429132010

Pump, Sump, 60 GPM, Station 3

(Unreviewed)

Quantity: 1.00

Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2,305.60	0.00	2,305.60	0.00	5,350.00	0.00	0.00	7,655.60
Total	2,305.60	0.00	2,305.60	0.00	5,350.00	0.00	0.00	7,655.60

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2,305.6000	16.0000	0.0625	144.1000	2.0000	0.5000	2.0000	3,827.8000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
32.0000	0.0313	32.0000	72.0500	2,305.6000

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS934

RS Means Crew Q1

Prod: US

0.5

Eff: 100.00

Crew Hrs: 16.00

Labor Pcs: 2.00

Equipment Pcs: 0.00

Notes: Pump, pedestal sump, single stage, 25 GPM, 1 H.P., 1-1/2" discharge

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z22141265	Pump, pedestal sump, single stage, 25 GPM, 1 H.P.,	1.00	1.00	EA	5,000.00	107.00	5,350.00	5,350.00
Z-PLUM	Plumbers	1.00	16.00	MH	72.05	100.00	72.05	1,152.80
Z-PLUM-APPR	Plumbers - Apprentice	1.00	16.00	MH	72.05	100.00	72.05	1,152.80

Biditem

Non Clog Vertical Pumps

811

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	119,796.00	11,569.56	131,365.56	125,244.24	4,124,850.00	0.00	0.00	4,381,459.80
Total	119,796.00	11,569.56	131,365.56	125,244.24	4,124,850.00	0.00	0.00	4,381,459.80

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
2,400.0000	0.0004	2,400.0000	1,825.6083	49.9150	54.7357	0.0042

Activity: 221329143160

Dry Pit Pumps, 14x12SSF 200 HP, 891 rpm and 18x16 SSF 350 HP, 713 rpm

(Unreviewed)

Quantity: 6.00

Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
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U. Cost	19,966.00	1,928.26	21,894.26	20,874.04	687,475.00	0.00	0.00	730,243.30
Total	119,796.00	11,569.56	131,365.56	125,244.24	4,124,850.00	0.00	0.00	4,381,459.80

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
42,768.3000	40.0000	0.0250	1,069.2075	30.0000	0.2000	5.0000	146,048.6600

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
2,400.0000	0.0025	400.0000	54.7357	19,966.0000

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew:PI04(Mod) Pipe Crew - Large Dia w/ CraProd: SU 5Eff: 100.00Crew Hrs: 240.00Labor Pcs: 10.00Equipment Pcs: 12.00

Notes: Tencarva budget quote 2-8-24

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2PUMP14X12	14x12 SSF dry pit pumps with 200 Hp, 891 rpm Motor	1.00	3.00	EA	595,000.00	107.00	636,650.00	1,909,950.00
2PUMP18X16	18x16 SSF Dry pit Pumps (Booster) with 350 Hp, 713	1.00	3.00	EA	690,000.00	107.00	738,300.00	2,214,900.00
8CRN115	Crane, All-terrain, 115 TN, GROVE GMK4100	1.00	240.00	HR	210.01	100.00	210.01	50,403.36
8EXC320	Excavator, CAT 320L	1.00	240.00	HR	41.33	100.00	41.33	9,918.24
8EXC365	Excavator, CAT 365	1.00	240.00	HR	160.07	100.00	160.07	38,415.60
8FE950	Loader, CAT 950K	1.00	240.00	HR	66.87	100.00	66.87	16,048.32
8SCISSOR35	Scissor Lift, 30-35', 4WV	1.00	240.00	HR	6.96	100.00	6.96	1,670.64
8SMLTL	Small Tools, Allowance	5.00	1,200.00	HR	2.84	100.00	2.84	3,409.20
8TKCRW	Pick-up Truck, F-350	2.00	480.00	HR	11.21	100.00	11.21	5,378.88
FGLA	Foreman, Labor General	1.00	240.00	MH	22.20	100.00	31.72	7,613.28
HEC	Oper Excavator, Trackhoe	1.00	240.00	MH	26.25	100.00	40.19	9,645.00
HEC02	Oper Crane, 15 TN to 160 TN	1.00	240.00	MH	42.00	100.00	57.72	13,852.80
HEL	Oper Loader	1.00	240.00	MH	17.70	100.00	26.73	6,414.48
Z-SKWK	Skilled Workers Average (35 trades)	1.00	240.00	MH	63.50	100.00	63.50	15,240.00
Z-SKWK-FORO	Skilled Workers Average (35 trades) - Foreman	5.00	1,200.00	MH	65.50	100.00	65.50	78,600.00

Biditem

812

Manual Bar Screen

Takeoff Qty: 1.000 LSPid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	3,830.40	0.00	3,830.40	414.00	90,950.00	0.00	0.00	95,194.40
Total	3,830.40	0.00	3,830.40	414.00	90,950.00	0.00	0.00	95,194.40

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
84.0000	0.0119	84.0000	1,133.2667	45.6000	45.6000	0.0417

Activity: 460753200020Manual Bar Screen(Unreviewed)Quantity: 1.00Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	3,830.40	0.00	3,830.40	414.00	90,950.00	0.00	0.00	95,194.40
Total	3,830.40	0.00	3,830.40	414.00	90,950.00	0.00	0.00	95,194.40

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
4,244.4000	24.0000	0.0417	176.8500	3.0000	0.3333	3.0000	31,731.4667

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
84.0000	0.0119	84.0000	45.6000	3,830.4000

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew:RS-B21RSMeans - B21 CrewProd: US 0.3333Eff: 100.00Crew Hrs: 24.00Labor Pcs: 3.50Equipment Pcs: 0.50

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
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2RS-DD3GFOSK	Wastewater treatment system,	1.00	1.00	EA	85,000.00	107.00	90,950.00	90,950.00
8RS-602800	S.P. Crane, 4x4, 5 Ton	0.50	12.00	HR	34.50	100.00	34.50	414.00
RS-CLAB	Common Building Laborers	1.00	24.00	MH	39.15	100.00	39.15	939.60
RS-CLABO	Labor Foreman (outside)	1.00	24.00	MH	41.15	100.00	41.15	987.60
RS-EQHV	Equipment Operators, Crane or Shovel	0.50	12.00	MH	55.70	100.00	55.70	668.40
RS-SKWK	Skilled Workers Average (35 trades)	1.00	24.00	MH	51.45	100.00	51.45	1,234.80

Biditem

813

Yard piping

Takeoff Qty: 298.000 LF

Bid Qty: 298.000 LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	102.46	0.00	102.46	66.92	238.80	0.00	0.00	408.18
Total	30,533.87	0.00	30,533.87	19,941.49	71,161.38	0.00	0.00	121,636.74

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
526.0000	0.5665	1.7651	231.2486	58.0492	58.0492	1.8044

Activity: 312316131370

Excavating, trench or continuous footing, common earth, 1 C.Y. excavator, 6' to10' deep, includes tr

(Unreviewed)

Quantity: 575.00

Unit: BCY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4.09	0.00	4.09	4.86	0.00	0.00	0.00	8.95
Total	2,349.86	0.00	2,349.86	2,796.45	0.00	0.00	0.00	5,146.31

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
8.9501	0.0219	45.6879	408.9111	1.5732	365.5029	0.0027	3,271.2890

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
37.7600	15.2278	0.0657	62.2315	4.0867

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS208 (Mod) RS Means Crew B13D

Prod: US 365.5029

Eff: 100.00

Crew Hrs: 12.59

Labor Pcs: 3.00

Equipment Pcs: 3.00

Notes: Excavating, trench or continuous footing, common earth, 1 C.Y. excavator, 6' to10' deep, includes trench box, excludes dewaterinB.C.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31231180	Cycle hauling(wait, load, travel, unload or dump &	1.00	575.00	LCY	0.00	107.00	0.00	0.00
8Z5433200150	Hyd. Excavator, 1 C.Y.	1.00	12.59	HR	123.32	100.00	123.32	1,552.60
8Z5433204710	F.E. Loader, W.M., 2.5 C.Y.	1.00	12.59	HR	82.36	100.00	82.36	1,036.92
8Z5433407040	Trench Box	1.00	12.59	HR	16.44	100.00	16.44	206.93
Z-CLAB	Common Building Laborers	1.00	12.59	MH	49.00	100.00	49.00	616.91
Z-EQHV	Equipment Operators, Crane or Shovel	2.00	25.17	MH	68.85	100.00	68.85	1,732.95

Activity: 312316133020

Excavating, trench backfill, 1 C.Y. bucket, minimal haul, front end loader, wheel mounted, excludes

(Unreviewed)

Quantity: 460.00

Unit: LCY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.50	0.00	2.50	1.08	0.00	0.00	0.00	3.58
Total	1,147.98	0.00	1,147.98	496.94	0.00	0.00	0.00	1,644.92

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3.5759	0.0219	45.6907	163.3859	1.2585	365.5254	0.0027	1,307.0870

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
20.1400	22.8401	0.0438	57.0000	2.4956

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS124 (Mod) RS Means Crew B10R Prod: US 365.5254 Eff: 100.00 Crew Hrs: 10.07 Labor Pcs: 2.00 Equipment Pcs: 1.00

Notes: Excavating, trench backfill, 1 C.Y. bucket, minimal haul, front end loader, wheel mounted, excludes dewatering

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31231335	Cycle hauling(wait, load, travel, unload or dump &	1.00	460.00	LCY	0.00	107.00	0.00	0.00
8Z5433204610	F.E. Loader, W.M., 1 C.Y.	1.00	10.07	HR	49.35	100.00	49.35	496.94
Z-CLAB	Common Building Laborers	1.00	10.07	MH	49.00	100.00	49.00	493.43
Z-EQMD	Equipment Operators, Medium Equipment	1.00	10.07	MH	65.00	100.00	65.00	654.55

Activity: 312316133060 Excavating, trench backfill, 1 C.Y. bucket, 200' haul, front end loader, wheel mounted, excludes dew (Unreviewed) Quantity: 460.00 Unit: LCY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	9.36	0.00	9.36	4.05	0.00	0.00	0.00	13.41
Total	4,303.50	0.00	4,303.50	1,862.92	0.00	0.00	0.00	6,166.42

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
13.4053	0.0821	12.1842	163.3320	4.7192	97.4734	0.0103	1,306.6560

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
75.5000	6.0927	0.1641	57.0000	9.3554

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS124 (Mod) RS Means Crew B10R Prod: US 97.4734 Eff: 100.00 Crew Hrs: 37.75 Labor Pcs: 2.00 Equipment Pcs: 1.00

Notes: Excavating, trench backfill, 1 C.Y. bucket, 200' haul, front end loader, wheel mounted, excludes dewatering

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31231345	Cycle hauling(wait, load, travel, unload or dump &	1.00	460.00	LCY	0.00	107.00	0.00	0.00
8Z5433204610	F.E. Loader, W.M., 1 C.Y.	1.00	37.75	HR	49.35	100.00	49.35	1,862.92
Z-CLAB	Common Building Laborers	1.00	37.75	MH	49.00	100.00	49.00	1,849.75
Z-EQMD	Equipment Operators, Medium Equipment	1.00	37.75	MH	65.00	100.00	65.00	2,453.75

Activity: 312323144420 Backfill, structural, common earth, 200 HP dozer, 300' haul, from existing stockpile, excludes compa (Unreviewed) Quantity: 115.00 Unit: LCY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.25	0.00	1.25	0.54	0.00	0.00	0.00	1.79
Total	143.64	0.00	143.64	62.18	0.00	0.00	0.00	205.82

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1.7897	0.0109	91.3786	163.5439	0.1573	731.0290	0.0014	1,308.3512

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
2.5200	45.6349	0.0219	57.0000	1.2490

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS092 (Mod) RS Means Crew B10B Prod: US 731.029 Eff: 100.00 Crew Hrs: 1.26 Labor Pcs: 2.00 Equipment Pcs: 1.00

Notes: Backfill, structural, common earth, 200 HP dozer, 300' haul, from existing stockpile, excludes compaction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31234820	Excavating, bulk, dozer, open site, bank measure,	1.00	115.00	BCY	0.00	107.00	0.00	0.00
8Z5433204260	Dozer, 200 H.P.	0.00	0.00	HR	172.80	100.00	0.00	0.00
8Z5433204610	F.E. Loader, W.M., 1 C.Y.	1.00	1.26	HR	49.35	100.00	49.35	62.18
Z-CLAB	Common Building Laborers	1.00	1.26	MH	49.00	100.00	49.00	61.74
Z-EQMD	Equipment Operators, Medium Equipment	1.00	1.26	MH	65.00	100.00	65.00	81.90

Activity: 312323160100	Fill by borrow and utility bedding, for pipe and conduit, crushed stone, 3/4" to 1/2", excludes comp	(Unreviewed)	Quantity: 65.00	Unit: LCY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	8.53	0.00	8.53	2.63	0.00	0.00	0.00	11.17
Total	554.71	0.00	554.71	171.24	0.00	0.00	0.00	725.95

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
11.1685	0.0533	18.7504	209.4127	0.4333	150.0029	0.0067	1,675.3014

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
10.4000	6.2500	0.1600	53.3375	8.5340

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS500 (Mod) RS Means Crew B6 Prod: US 150.0029 Eff: 100.00 Crew Hrs: 3.47 Labor Pcs: 3.00 Equipment Pcs: 1.00

Notes: Fill by borrow and utility bedding, for pipe and conduit, crushed stone, 3/4" to 1/2", excludes compaction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31235095	Excavating, bulk, dozer, open site, bank measure,	1.00	65.00	BCY	0.00	107.00	0.00	0.00
8Z5433204610	F.E. Loader, W.M., 1 C.Y.	1.00	3.47	HR	49.35	100.00	49.35	171.24
Z-CLAB	Common Building Laborers	2.00	6.93	MH	49.00	100.00	49.00	339.57
Z-EQLT	Equipment Operators, Light Equipment	1.00	3.47	MH	62.00	100.00	62.00	215.14

Activity: 312323160500	Fill by borrow and utility bedding, for pipe and conduit, compacting bedding intrench	(Unreviewed)	Quantity: 65.00	Unit: BCY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4.36	0.00	4.36	1.60	0.00	0.00	0.00	5.96
Total	283.22	0.00	283.22	103.91	0.00	0.00	0.00	387.13

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
5.9558	0.0890	11.2381	66.9323	0.7230	89.9047	0.0111	535.4588

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
5.7800	11.2457	0.0889	49.0000	4.3572

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS028 RS Means Crew A1D Prod: US 89.9047 Eff: 100.00 Crew Hrs: 5.78 Labor Pcs: 1.00 Equipment Pcs: 1.00

Notes: Fill by borrow and utility bedding, for pipe and conduit, compacting bedding intrench

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31235105	Excavating, bulk, dozer, open site, bank measure,	1.00	65.00	BCY	0.00	107.00	0.00	0.00
8Z5433201300	Vibrating Plate, Gas, 18"	1.00	5.78	HR	17.98	100.00	17.98	103.91
Z-CLAB	Common Building Laborers	1.00	5.78	MH	49.00	100.00	49.00	283.22

Activity: 312323204710	Cycle hauling(wait, load, travel, unload or dump & return) time per cycle, excavated or borrow, loos	(Unreviewed)	Quantity: 115.00	Unit: LCY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	3.16	0.00	3.16	5.10	0.00	0.00	0.00	8.26
Total	363.75	0.00	363.75	586.01	0.00	0.00	0.00	949.76

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
8.2588	0.0570	17.5439	144.8909	0.8194	140.3509	0.0071	1,159.1274

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
6.5600	17.5305	0.0570	55.4497	3.1630

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS362 RS Means Crew B34D Prod: US 140.3509 Eff: 100.00 Crew Hrs: 6.56 Labor Pcs: 1.00 Equipment Pcs: 2.00

Notes: Cycle hauling(wait, load, travel, unload or dump & return) time per cycle, excavated or borrow, loose cubic yards, 30 min load/wL.C.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31238570	Cycle hauling(wait, load, travel, unload or dump &	1.00	115.00	LCY	0.00	107.00	0.00	0.00
8Z5433205400	Dump Trailer, 20 C.Y.	1.00	6.56	HR	21.08	100.00	21.08	138.30
8Z5433407500	Truck Tractor, 6x4, 380 H.P.	1.00	6.56	HR	68.25	100.00	68.25	447.71
Z-TRHV	Truck Drivers, Heavy	1.00	6.56	MH	55.45	100.00	55.45	363.75

Activity: 312323237540 Compaction, 4 passes, 24" wide, 6" lifts, walk behind, vibrating roller (Unreviewed) Quantity: 460.00 Unit: BCY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4.99	0.00	4.99	0.86	0.00	0.00	0.00	5.85
Total	2,295.96	0.00	2,295.96	396.52	0.00	0.00	0.00	2,692.48

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
5.8532	0.0438	22.8453	133.7187	2.5169	182.7627	0.0055	1,069.7498

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
40.2800	11.4201	0.0876	57.0000	4.9912

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS090 (Mod) RS Means Crew B10A Prod: US 182.7627 Eff: 100.00 Crew Hrs: 20.14 Labor Pcs: 2.00 Equipment Pcs: 1.00

Notes: Compaction, 4 passes, 24" wide, 6" lifts, walk behind, vibrating roller

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z312310890	Cycle hauling(wait, load, travel, unload or dump &	1.00	460.00	LCY	0.00	107.00	0.00	0.00
8Z5433201200	Roller, 2-Drum, W.B., 7.5 H.P.	1.00	20.14	HR	19.69	100.00	19.69	396.52
Z-CLAB	Common Building Laborers	1.00	20.14	MH	49.00	100.00	49.00	986.86
Z-EQMD	Equipment Operators, Medium Equipment	1.00	20.14	MH	65.00	100.00	65.00	1,309.10

Activity: 312323239040 Compaction, water for, 6,000 gallon wagon, 6 mile haul (Unreviewed) Quantity: 460.00 Unit: BCY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.30	0.00	0.30	0.35	0.00	0.00	0.00	0.65
Total	139.73	0.00	139.73	160.37	0.00	0.00	0.00	300.10

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.6524	0.0055	182.6919	119.1866	0.3147	1,461.5354	0.0007	953.4930

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
2.5200	182.5397	0.0055	55.4484	0.3038

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS490 RS Means Crew B59 Prod: US 1461.5354 Eff: 100.00 Crew Hrs: 2.52 Labor Pcs: 1.00 Equipment Pcs: 2.00

Notes: Compaction, water for, 6,000 gallon wagon, 6 mile haul

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z312310990	Cycle hauling(wait, load, travel, unload or dump &	1.00	460.00	LCY	0.00	107.00	0.00	0.00
8Z5433406900	Water Tank Trailer, 5000 Gal.	1.00	2.52	HR	21.14	100.00	21.14	53.28
8Z5433407300	Truck Tractor, 220 H.P.	1.00	2.52	HR	42.50	100.00	42.50	107.09
Z-TRHV	Truck Drivers, Heavy	1.00	2.52	MH	55.45	100.00	55.45	139.73

Activity: 330597100400 Utility line signs, markers, and flags, underground tape, detectable, reinforced, aluminum foil core (Unreviewed) Quantity: 2.98 Unit: CLF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.63	0.00	2.63	0.00	2.14	0.00	0.00	4.77
Total	7.84	0.00	7.84	0.00	6.38	0.00	0.00	14.22

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.6309	0.0530	18.8727	49.6517	0.0197	150.9816	0.0066	720.4560
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
0.1600	18.6250	0.0537	49.0000	2.6309			

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1140 (Mod) RS Means Crew CLAB Prod: US 150.9816 Eff: 100.00 Crew Hrs: 0.16 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Utility line signs, markers, and flags, underground tape, detectable, reinforced, aluminum foil core, 2", excludes excavation anC.L.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z33051510	Utility line signs, markers, and flags, underground	1.00	2.98	CLF	2.00	107.00	2.14	6.38
Z-CLAB	Common Building Laborers	1.00	0.16	MH	49.00	100.00	49.00	7.84

Activity: 331413152260 Wastewater piping, ductile iron pipe, 30" diam, mechanical joint, no fittings, 18' length (Unreviewed) Quantity: 280.00 Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	61.47	0.00	61.47	43.17	232.19	0.00	0.00	336.84
Total	17,212.76	0.00	17,212.76	12,088.88	65,013.20	0.00	0.00	94,314.84

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
104.6487	0.2105	4.7500	497.0811	7.3684	38.0000	0.0263	12,799.8643
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
294.7400	0.9500	1.0526	58.3998	61.4741			

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS284 RS Means Crew B21 Prod: US 38 Eff: 100.00 Crew Hrs: 58.95 Labor Pcs: 5.00 Equipment Pcs: 2.00

Notes: Core Main quote 30" + P-401: \$177/LF + \$40/LF= \$217/LF

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z33141200	Water supply distribution piping, ductile iron pip	1.00	280.00	LF	217.00	107.00	232.19	65,013.20
8Z5433200200	Hyd. Excavator, 1.5 C.Y.	1.00	58.95	HR	148.16	100.00	148.16	8,733.74
8Z5433204620	F.E. Loader, W.M., 1.5 C.Y.	1.00	58.95	HR	56.92	100.00	56.92	3,355.14
Z-CLAB	Common Building Laborers	1.00	58.95	MH	49.00	100.00	49.00	2,888.55
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	58.95	MH	49.50	100.00	49.50	2,918.03
Z-EQMD	Equipment Operators, Medium Equipment	2.00	117.89	MH	65.00	100.00	65.00	7,662.85
Z-SKWK	Skilled Workers Average (35 trades)	1.00	58.95	MH	63.50	100.00	63.50	3,743.33

Activity: 331413152261 Wastewater piping, ductile iron pipe, 42" diam, mechanical joint, no fittings, 18' length (Unreviewed) Quantity: 20.00 Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	86.55	0.00	86.55	60.80	307.09	0.00	0.00	454.44
Total	1,730.92	0.00	1,730.92	1,216.07	6,141.80	0.00	0.00	9,088.79

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
147.3495	0.2963	3.3750	497.3067	0.7407	27.0001	0.0370	12,269.9202
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
29.6400	0.6748	1.4820	58.3981	86.5460			

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS284 RS Means Crew B21 Prod: US 27.0001 Eff: 100.00 Crew Hrs: 5.93 Labor Pcs: 5.00 Equipment Pcs: 2.00

Notes: Core Main quote 30" + P-401: \$177/LF + \$40/LF= \$217/LF
 Extrapolate $42^2/30^2 = 1.96$
 $1.96 \times \$177 + \$40 = \$386.92/LF$

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z33141200	Water supply distribution piping, ductile iron pip	1.00	20.00	LF	287.00	107.00	307.09	6,141.80
8Z5433200200	Hyd. Excavator, 1.5 C.Y.	1.00	5.93	HR	148.16	100.00	148.16	878.56
8Z5433204620	F.E. Loader, W.M., 1.5 C.Y.	1.00	5.93	HR	56.92	100.00	56.92	337.51
Z-CLAB	Common Building Laborers	1.00	5.93	MH	49.00	100.00	49.00	290.57
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	5.93	MH	49.50	100.00	49.50	293.54
Z-EQMD	Equipment Operators, Medium Equipment	2.00	11.85	MH	65.00	100.00	65.00	770.25
Z-SKWK	Skilled Workers Average (35 trades)	1.00	5.93	MH	63.50	100.00	63.50	376.56

Biditem

814

Channel Grinder

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	3,830.40	0.00	3,830.40	414.00	26,750.00	0.00	0.00	30,994.40
Total	3,830.40	0.00	3,830.40	414.00	26,750.00	0.00	0.00	30,994.40

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
84.0000	0.0119	84.0000	368.9810	45.6000	45.6000	0.0417

Activity: 460753200925

Grinder

(Unreviewed)

Quantity: 1.00

Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	3,830.40	0.00	3,830.40	414.00	26,750.00	0.00	0.00	30,994.40
Total	3,830.40	0.00	3,830.40	414.00	26,750.00	0.00	0.00	30,994.40

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
4,244.4000	24.0000	0.0417	176.8500	3.0000	0.3333	3.0000	10,331.4667

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
84.0000	0.0119	84.0000	45.6000	3,830.4000

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS-B21

RSMeans - B21 Crew

Prod: US 0.3333

Eff: 100.00

Crew Hrs: 24.00

Labor Pcs: 3.50

Equipment Pcs: 0.50

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2RS-DD3GFOSK	Wastewater treatment system,	1.00	1.00	EA	25,000.00	107.00	26,750.00	26,750.00
8RS-602800	S.P. Crane, 4x4, 5 Ton	0.50	12.00	HR	34.50	100.00	34.50	414.00
RS-CLAB	Common Building Laborers	1.00	24.00	MH	39.15	100.00	39.15	939.60
RS-CLABO	Labor Foreman (outside)	1.00	24.00	MH	41.15	100.00	41.15	987.60
RS-EQHV	Equipment Operators, Crane or Shovel	0.50	12.00	MH	55.70	100.00	55.70	668.40
RS-SKWK	Skilled Workers Average (35 trades)	1.00	24.00	MH	51.45	100.00	51.45	1,234.80

Biditem

815

Fittings - Installation

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	123,224.00	0.00	123,224.00	86,539.56	85,317.52	0.00	0.00	295,081.08
Total	123,224.00	0.00	123,224.00	86,539.56	85,317.52	0.00	0.00	295,081.08

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
2,110.0000	0.0005	2,110.0000	139.8489	58.4000	58.4000	0.0024

Activity: 331413156241

Wastewater, fitting, ductile iron, 42" cap

Quantity: 2.00

Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	438.00	0.00	438.00	307.61	0.00	0.00	0.00	745.61
Total	876.00	0.00	876.00	615.22	0.00	0.00	0.00	1,491.22

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
745.6100	1.5000	0.6667	497.0733	0.3750	5.3333	0.1875	3,976.5867

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
15.0000	0.1333	7.5000	58.4000	438.0000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS284 RS Means Crew B21 Prod: MU 7.5 Eff: 100.00 Crew Hrs: 3.00 Labor Pcs: 5.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8Z5433200200	Hyd. Excavator, 1.5 C.Y.	1.00	3.00	HR	148.16	100.00	148.16	444.47
8Z5433204620	F.E. Loader, W.M., 1.5 C.Y.	1.00	3.00	HR	56.92	100.00	56.92	170.75
Z-CLAB	Common Building Laborers	1.00	3.00	MH	49.00	100.00	49.00	147.00
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	3.00	MH	49.50	100.00	49.50	148.50
Z-EQMD	Equipment Operators, Medium Equipment	2.00	6.00	MH	65.00	100.00	65.00	390.00
Z-SKWK	Skilled Workers Average (35 trades)	1.00	3.00	MH	63.50	100.00	63.50	190.50

Activity: 331413158184 Wastewater, fitting, ductile iron, 90 degree bend, 30" diameter (Unreviewed) Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2,044.00	0.00	2,044.00	1,435.50	9,506.95	0.00	0.00	12,986.45
Total	2,044.00	0.00	2,044.00	1,435.50	9,506.95	0.00	0.00	12,986.45

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3,479.5000	7.0000	0.1429	497.0714	0.8750	1.1429	0.8750	14,841.6571

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
35.0000	0.0286	35.0000	58.4000	2,044.0000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS284 RS Means Crew B21 Prod: 0 Eff: 100.00 Crew Hrs: 7.00 Labor Pcs: 5.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2FITTINGS	Fittings	1.00	1.00	EA	8,885.00	107.00	9,506.95	9,506.95
8Z5433200200	Hyd. Excavator, 1.5 C.Y.	1.00	7.00	HR	148.16	100.00	148.16	1,037.09
8Z5433204620	F.E. Loader, W.M., 1.5 C.Y.	1.00	7.00	HR	56.92	100.00	56.92	398.41
Z-CLAB	Common Building Laborers	1.00	7.00	MH	49.00	100.00	49.00	343.00
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	7.00	MH	49.50	100.00	49.50	346.50
Z-EQMD	Equipment Operators, Medium Equipment	2.00	14.00	MH	65.00	100.00	65.00	910.00
Z-SKWK	Skilled Workers Average (35 trades)	1.00	7.00	MH	63.50	100.00	63.50	444.50

Activity: 331413158363 Wastewater, fitting, ductile iron, tee or wye, 42" diameter Quantity: 3.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2,336.00	0.00	2,336.00	1,640.56	0.00	0.00	0.00	3,976.56
Total	7,008.00	0.00	7,008.00	4,921.68	0.00	0.00	0.00	11,929.68

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3,976.5600	8.0000	0.1250	497.0700	3.0000	1.0000	1.0000	3,976.5600

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
120.0000	0.0250	40.0000	58.4000	2,336.0000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS284 RS Means Crew B21 Prod: 0 Eff: 100.00 Crew Hrs: 24.00 Labor Pcs: 5.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8Z5433200200	Hyd. Excavator, 1.5 C.Y.	1.00	24.00	HR	148.16	100.00	148.16	3,555.72
8Z5433204620	F.E. Loader, W.M., 1.5 C.Y.	1.00	24.00	HR	56.92	100.00	56.92	1,365.96
Z-CLAB	Common Building Laborers	1.00	24.00	MH	49.00	100.00	49.00	1,176.00
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	24.00	MH	49.50	100.00	49.50	1,188.00
Z-EQMD	Equipment Operators, Medium Equipment	2.00	48.00	MH	65.00	100.00	65.00	3,120.00
Z-SKWK	Skilled Workers Average (35 trades)	1.00	24.00	MH	63.50	100.00	63.50	1,524.00

Activity: 331413158364 Wastewater, fitting, ductile iron, cross, 42" diameter Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2,336.00	0.00	2,336.00	1,640.56	0.00	0.00	0.00	3,976.56
Total	2,336.00	0.00	2,336.00	1,640.56	0.00	0.00	0.00	3,976.56

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3,976.5600	8.0000	0.1250	497.0700	1.0000	1.0000	1.0000	3,976.5600

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
40.0000	0.0250	40.0000	58.4000	2,336.0000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS284 RS Means Crew B21 Prod: MU 40 Eff: 100.00 Crew Hrs: 8.00 Labor Pcs: 5.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8Z5433200200	Hyd. Excavator, 1.5 C.Y.	1.00	8.00	HR	148.16	100.00	148.16	1,185.24
8Z5433204620	F.E. Loader, W.M., 1.5 C.Y.	1.00	8.00	HR	56.92	100.00	56.92	455.32
Z-CLAB	Common Building Laborers	1.00	8.00	MH	49.00	100.00	49.00	392.00
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	8.00	MH	49.50	100.00	49.50	396.00
Z-EQMD	Equipment Operators, Medium Equipment	2.00	16.00	MH	65.00	100.00	65.00	1,040.00
Z-SKWK	Skilled Workers Average (35 trades)	1.00	8.00	MH	63.50	100.00	63.50	508.00

Activity: 331413158510 Wastewater, fittings, ductile iron, reducer, 42x30 (Unreviewed) Quantity: 3.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2,336.00	0.00	2,336.00	1,640.56	25,270.19	0.00	0.00	29,246.75
Total	7,008.00	0.00	7,008.00	4,921.68	75,810.57	0.00	0.00	87,740.25

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3,976.5600	8.0000	0.1250	497.0700	3.0000	1.0000	1.0000	29,246.7500

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
120.0000	0.0250	40.0000	58.4000	2,336.0000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS284 RS Means Crew B21 Prod: 0 Eff: 100.00 Crew Hrs: 24.00 Labor Pcs: 5.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2FITTINGS	Fittings	1.00	3.00	EA	23,617.00	107.00	25,270.19	75,810.57
8Z5433200200	Hyd. Excavator, 1.5 C.Y.	1.00	24.00	HR	148.16	100.00	148.16	3,555.72
8Z5433204620	F.E. Loader, W.M., 1.5 C.Y.	1.00	24.00	HR	56.92	100.00	56.92	1,365.96
Z-CLAB	Common Building Laborers	1.00	24.00	MH	49.00	100.00	49.00	1,176.00
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	24.00	MH	49.50	100.00	49.50	1,188.00
Z-EQMD	Equipment Operators, Medium Equipment	2.00	48.00	MH	65.00	100.00	65.00	3,120.00

Z-SKWK	Skilled Workers Average (35 trades)	1.00	24.00	MH	63.50	100.00	63.50	1,524.00
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Activity: 331413158792	Wastewater, fitting, joint restraint, 42" diameter	Quantity: 22.00	Unit: EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1,168.00	0.00	1,168.00	820.28	0.00	0.00	0.00	1,988.28
Total	25,696.00	0.00	25,696.00	18,046.16	0.00	0.00	0.00	43,742.16

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1,988.2800	4.0000	0.2500	497.0700	11.0000	2.0000	0.5000	3,976.5600

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
440.0000	0.0500	20.0000	58.4000	1,168.0000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS284 RS Means Crew B21 Prod: US 2 Eff: 100.00 Crew Hrs: 88.00 Labor Pcs: 5.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8Z5433200200	Hyd. Excavator, 1.5 C.Y.	1.00	88.00	HR	148.16	100.00	148.16	13,037.64
8Z5433204620	F.E. Loader, W.M., 1.5 C.Y.	1.00	88.00	HR	56.92	100.00	56.92	5,008.52
Z-CLAB	Common Building Laborers	1.00	88.00	MH	49.00	100.00	49.00	4,312.00
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	88.00	MH	49.50	100.00	49.50	4,356.00
Z-EQMD	Equipment Operators, Medium Equipment	2.00	176.00	MH	65.00	100.00	65.00	11,440.00
Z-SKWK	Skilled Workers Average (35 trades)	1.00	88.00	MH	63.50	100.00	63.50	5,588.00

Activity: 331417158441	Wastewater, fitting, dresser coupling, 30" diameter	(Unreviewed)	Quantity: 6.00	Unit: EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1,168.00	0.00	1,168.00	820.28	0.00	0.00	0.00	1,988.28
Total	7,008.00	0.00	7,008.00	4,921.68	0.00	0.00	0.00	11,929.68

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1,988.2800	4.0000	0.2500	497.0700	3.0000	2.0000	0.5000	3,976.5600

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
120.0000	0.0500	20.0000	58.4000	1,168.0000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS284 RS Means Crew B21 Prod: S 3 Eff: 100.00 Crew Hrs: 24.00 Labor Pcs: 5.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8Z5433200200	Hyd. Excavator, 1.5 C.Y.	1.00	24.00	HR	148.16	100.00	148.16	3,555.72
8Z5433204620	F.E. Loader, W.M., 1.5 C.Y.	1.00	24.00	HR	56.92	100.00	56.92	1,365.96
Z-CLAB	Common Building Laborers	1.00	24.00	MH	49.00	100.00	49.00	1,176.00
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	24.00	MH	49.50	100.00	49.50	1,188.00
Z-EQMD	Equipment Operators, Medium Equipment	2.00	48.00	MH	65.00	100.00	65.00	3,120.00
Z-SKWK	Skilled Workers Average (35 trades)	1.00	24.00	MH	63.50	100.00	63.50	1,524.00

Activity: 331417158442	Wastewater, fitting, dresser coupling, 42" diameter	Quantity: 1.00	Unit: EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1,168.00	0.00	1,168.00	820.28	0.00	0.00	0.00	1,988.28
Total	1,168.00	0.00	1,168.00	820.28	0.00	0.00	0.00	1,988.28

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1,988.2800	4.0000	0.2500	497.0700	0.5000	2.0000	0.5000	3,976.5600

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
20.0000	0.0500	20.0000	58.4000	1,168.0000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS284 RS Means Crew B21 Prod: US 2 Eff: 100.00 Crew Hrs: 4.00 Labor Pcs: 5.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8Z5433200200	Hyd. Excavator, 1.5 C.Y.	1.00	4.00	HR	148.16	100.00	148.16	592.62
8Z5433204620	F.E. Loader, W.M., 1.5 C.Y.	1.00	4.00	HR	56.92	100.00	56.92	227.66
Z-CLAB	Common Building Laborers	1.00	4.00	MH	49.00	100.00	49.00	196.00
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	4.00	MH	49.50	100.00	49.50	198.00
Z-EQMD	Equipment Operators, Medium Equipment	2.00	8.00	MH	65.00	100.00	65.00	520.00
Z-SKWK	Skilled Workers Average (35 trades)	1.00	4.00	MH	63.50	100.00	63.50	254.00

Activity: 331413158362 Wastewater, fitting, ductile iron, tee or wye, 30" diameter (Unreviewed) Quantity: 5.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1,168.00	0.00	1,168.00	820.28	0.00	0.00	0.00	1,988.28
Total	5,840.00	0.00	5,840.00	4,101.40	0.00	0.00	0.00	9,941.40

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1,988.2800	4.0000	0.2500	497.0700	2.5000	2.0000	0.5000	3,976.5600

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
100.0000	0.0500	20.0000	58.4000	1,168.0000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS284 RS Means Crew B21 Prod: S 2.5 Eff: 100.00 Crew Hrs: 20.00 Labor Pcs: 5.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8Z5433200200	Hyd. Excavator, 1.5 C.Y.	1.00	20.00	HR	148.16	100.00	148.16	2,963.10
8Z5433204620	F.E. Loader, W.M., 1.5 C.Y.	1.00	20.00	HR	56.92	100.00	56.92	1,138.30
Z-CLAB	Common Building Laborers	1.00	20.00	MH	49.00	100.00	49.00	980.00
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	20.00	MH	49.50	100.00	49.50	990.00
Z-EQMD	Equipment Operators, Medium Equipment	2.00	40.00	MH	65.00	100.00	65.00	2,600.00
Z-SKWK	Skilled Workers Average (35 trades)	1.00	20.00	MH	63.50	100.00	63.50	1,270.00

Activity: 331413158181 Wastewater, fitting, ductile iron, 45 degree bend, 30" diameter (Unreviewed) Quantity: 9.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1,038.22	0.00	1,038.22	729.14	0.00	0.00	0.00	1,767.36
Total	9,344.00	0.00	9,344.00	6,562.24	0.00	0.00	0.00	15,906.24

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1,767.3600	3.5556	0.2813	497.0700	4.0000	2.2500	0.4444	3,976.5600

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
160.0000	0.0563	17.7778	58.4000	1,038.2222

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS284 RS Means Crew B21 Prod: MU 17.7778 Eff: 100.00 Crew Hrs: 32.00 Labor Pcs: 5.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8Z5433200200	Hyd. Excavator, 1.5 C.Y.	1.00	32.00	HR	148.16	100.00	148.16	4,740.96
8Z5433204620	F.E. Loader, W.M., 1.5 C.Y.	1.00	32.00	HR	56.92	100.00	56.92	1,821.28
Z-CLAB	Common Building Laborers	1.00	32.00	MH	49.00	100.00	49.00	1,568.00

Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	32.00	MH	49.50	100.00	49.50	1,584.00
Z-EQMD	Equipment Operators, Medium Equipment	2.00	64.00	MH	65.00	100.00	65.00	4,160.00
Z-SKWK	Skilled Workers Average (35 trades)	1.00	32.00	MH	63.50	100.00	63.50	2,032.00

Activity: 331413158182 Wastewater, fitting, ductile iron, 22.5 degree bend, 30" diameter (Unreviewed) Quantity: 3.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1,168.00	0.00	1,168.00	820.28	0.00	0.00	0.00	1,988.28
Total	3,504.00	0.00	3,504.00	2,460.84	0.00	0.00	0.00	5,964.84

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1,988.2800	4.0000	0.2500	497.0700	1.5000	2.0000	0.5000	3,976.5600

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
60.0000	0.0500	20.0000	58.4000	1,168.0000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS284 RS Means Crew B21 Prod: S 1.5 Eff: 100.00 Crew Hrs: 12.00 Labor Pcs: 5.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8Z5433200200	Hyd. Excavator, 1.5 C.Y.	1.00	12.00	HR	148.16	100.00	148.16	1,777.86
8Z5433204620	F.E. Loader, W.M., 1.5 C.Y.	1.00	12.00	HR	56.92	100.00	56.92	682.98
Z-CLAB	Common Building Laborers	1.00	12.00	MH	49.00	100.00	49.00	588.00
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	12.00	MH	49.50	100.00	49.50	594.00
Z-EQMD	Equipment Operators, Medium Equipment	2.00	24.00	MH	65.00	100.00	65.00	1,560.00
Z-SKWK	Skilled Workers Average (35 trades)	1.00	12.00	MH	63.50	100.00	63.50	762.00

Activity: 331413158183 Wastewater, fitting, ductile iron, 11.25 degree bend, 30" diameter (Unreviewed) Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1,168.00	0.00	1,168.00	820.28	0.00	0.00	0.00	1,988.28
Total	1,168.00	0.00	1,168.00	820.28	0.00	0.00	0.00	1,988.28

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1,988.2800	4.0000	0.2500	497.0700	0.5000	2.0000	0.5000	3,976.5600

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
20.0000	0.0500	20.0000	58.4000	1,168.0000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS284 RS Means Crew B21 Prod: S 0.5 Eff: 100.00 Crew Hrs: 4.00 Labor Pcs: 5.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8Z5433200200	Hyd. Excavator, 1.5 C.Y.	1.00	4.00	HR	148.16	100.00	148.16	592.62
8Z5433204620	F.E. Loader, W.M., 1.5 C.Y.	1.00	4.00	HR	56.92	100.00	56.92	227.66
Z-CLAB	Common Building Laborers	1.00	4.00	MH	49.00	100.00	49.00	196.00
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	4.00	MH	49.50	100.00	49.50	198.00
Z-EQMD	Equipment Operators, Medium Equipment	2.00	8.00	MH	65.00	100.00	65.00	520.00
Z-SKWK	Skilled Workers Average (35 trades)	1.00	4.00	MH	63.50	100.00	63.50	254.00

Activity: 331413158791 Wastewater, fitting, joint restraint, 30" diameter (Unreviewed) Quantity: 86.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	584.00	0.00	584.00	410.14	0.00	0.00	0.00	994.14
Total	50,224.00	0.00	50,224.00	35,272.04	0.00	0.00	0.00	85,496.04

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
994.1400	2.0000	0.5000	497.0700	21.5000	4.0000	0.2500	3,976.5600
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
860.0000	0.1000	10.0000	58.4000	584.0000			

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS284 RS Means Crew B21Prod: S21.5Eff: 100.00Crew Hrs: 172.00Labor Pcs: 5.00Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8Z5433200200	Hyd. Excavator, 1.5 C.Y.	1.00	172.00	HR	148.16	100.00	148.16	25,482.66
8Z5433204620	F.E. Loader, W.M., 1.5 C.Y.	1.00	172.00	HR	56.92	100.00	56.92	9,789.38
Z-CLAB	Common Building Laborers	1.00	172.00	MH	49.00	100.00	49.00	8,428.00
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	172.00	MH	49.50	100.00	49.50	8,514.00
Z-EQMD	Equipment Operators, Medium Equipment	2.00	344.00	MH	65.00	100.00	65.00	22,360.00
Z-SKWK	Skilled Workers Average (35 trades)	1.00	172.00	MH	63.50	100.00	63.50	10,922.00

Biditem816

Fittings - Material Only

Takeoff Qty: 81,039.000 LBS

Bid Qty: 81,039.000 LBS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.00	0.00	0.00	0.00	15.53	0.00	0.00	15.53
Total	0.00	0.00	0.00	0.00	1,258,538.82	0.00	0.00	1,258,538.82

Activity: 331413158363Ductile iron, fittings, tee, 42" diameter (3,188 lbs/ea)Quantity: 1.00Unit: EA

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2FITTINGS	Fittings	1.00	1.00	EA	54,239.00	107.00	58,035.73	58,035.73

Activity: 331413158364Ductile iron, fittings, tee, 42x30 diameter (2,605 lbs/ea)Quantity: 2.00Unit: EA

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2FITTINGS	Fittings	1.00	2.00	EA	40,491.00	107.00	43,325.37	86,650.74

Activity: 331413158365Ductile iron, fittings, cross, 42" diameter (7,145 lbs/ea)Quantity: 1.00Unit: EA

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2FITTINGS	Fittings	1.00	1.00	EA	150,387.00	107.00	160,914.09	160,914.09

Activity: 331413158510Ductile iron, fittings, reducer, 42x30 (1,231 lbs/ea)Quantity: 3.00Unit: EA

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2FITTINGS	Fittings	1.00	3.00	EA	27,428.00	107.00	29,347.96	88,043.88

Activity: 331413158796Ductile iron, fittings, joint restraint, 42" diam w/ accesories (490 lbs/ea)Quantity: 22.00Unit: EA

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
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2FITTINGS	Fittings	1.00	22.00	EA	6,936.31	107.00	7,421.85	163,280.74
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Activity: 33141315968	Ductile iron, fittings, dresser coupling, 42" diameter (1,240 lbs/ea)				Quantity: 1.00		Unit: EA
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Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2FITTINGS	Fittings	1.00	1.00	EA	19,870.00	107.00	21,260.90	21,260.90

Activity: 331413156241	Ductile iron, fittings, cap, 42" diameter (699 lbs/ea)	(Unreviewed)	Quantity: 2.00	Unit: EA
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Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2FITTINGS	Fittings	1.00	2.00	EA	13,491.00	107.00	14,435.37	28,870.74

Activity: 331413158181	Ductile iron, fittings, 45 degree bend, 30" diameter (879 lbs/ea)	(Unreviewed)	Quantity: 9.00	Unit: EA
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Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2FITTINGS	Fittings	1.00	9.00	EA	12,195.00	107.00	13,048.65	117,437.85

Activity: 331413158182	Ductile iron, fittings, 22.5 degree bend, 30" diameter (670 lbs/ea)	(Unreviewed)	Quantity: 3.00	Unit: EA
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Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2FITTINGS	Fittings	1.00	3.00	EA	10,238.00	107.00	10,954.66	32,863.98

Activity: 331413158183	Ductile iron, fittings, 11.25 degree bend, 30" diameter (571 lbs/ea)	(Unreviewed)	Quantity: 1.00	Unit: EA
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Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2FITTINGS	Fittings	1.00	1.00	EA	9,211.00	107.00	9,855.77	9,855.77

Activity: 331413158184	Ductile iron, fitting, 90 degree bend, 30" diameter (1,029 lbs/ea)		Quantity: 1.00	Unit: EA
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Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2FITTINGS	Fittings	1.00	1.00	EA	15,111.00	107.00	16,168.77	16,168.77

Activity: 331413158362	Ductile iron, fittings, tee, 30" diameter (1,270 lbs/ea)	(Unreviewed)	Quantity: 5.00	Unit: EA
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Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2FITTINGS	Fittings	1.00	5.00	EA	21,071.00	107.00	22,545.97	112,729.85

Activity: 331413158795	Ductile iron, fittings, joint restraint, 30" diam w/ accesories (299 lbs/ea)	(Unreviewed)	Quantity: 86.00	Unit: EA
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Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2FITTINGS	Fittings	1.00	86.00	EA	3,186.88	107.00	3,409.96	293,256.70

Activity: 331413159699	Ductile iron, fittings, dresser coupling, 30" diameter (800 lbs/ea)	(Unreviewed)	Quantity: 6.00	Unit: EA
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Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2FITTINGS	Fittings	1.00	6.00	EA	10,774.00	107.00	11,528.18	69,169.08

Biditem

817

Line Stop, 30"

Takeoff Qty: 4.000 EA

Bid Qty: 4.000 EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	11,680.00	0.00	11,680.00	8,202.80	37,450.00	0.00	0.00	57,332.80
Total	46,720.00	0.00	46,720.00	32,811.20	149,800.00	0.00	0.00	229,331.20

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
800.0000	0.0050	200.0000	286.6640	58.4000	58.4000	0.0250

Activity: 331417157460

Line stop, tapping

(Unreviewed)

Quantity: 4.00

Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	11,680.00	0.00	11,680.00	8,202.80	37,450.00	0.00	0.00	57,332.80
Total	46,720.00	0.00	46,720.00	32,811.20	149,800.00	0.00	0.00	229,331.20

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
19,882.8000	40.0000	0.0250	497.0700	20.0000	0.2000	5.0000	11,466.5600

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
800.0000	0.0050	200.0000	58.4000	11,680.0000

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS284

RS Means Crew B21

Prod: US

0.2

Eff: 100.00

Crew Hrs: 160.00

Labor Pcs: 5.00

Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z33143220	Water service connection, tapping crosses with rub	1.00	4.00	EA	35,000.00	107.00	37,450.00	149,800.00
8Z5433200200	Hyd. Excavator, 1.5 C.Y.	1.00	160.00	HR	148.16	100.00	148.16	23,704.80
8Z5433204620	F.E. Loader, W.M., 1.5 C.Y.	1.00	160.00	HR	56.92	100.00	56.92	9,106.40
Z-CLAB	Common Building Laborers	1.00	160.00	MH	49.00	100.00	49.00	7,840.00
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	160.00	MH	49.50	100.00	49.50	7,920.00
Z-EQMD	Equipment Operators, Medium Equipment	2.00	320.00	MH	65.00	100.00	65.00	20,800.00
Z-SKWK	Skilled Workers Average (35 trades)	1.00	160.00	MH	63.50	100.00	63.50	10,160.00

Biditem

818

Plug Valve, 30"

Takeoff Qty: 11.000 EA

Bid Qty: 11.000 EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1,467.20	0.00	1,467.20	0.00	72,620.90	0.00	0.00	74,088.10
Total	16,139.20	0.00	16,139.20	0.00	798,829.90	0.00	0.00	814,969.10

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
224.0000	0.0491	20.3636	3,638.2549	72.0500	72.0500	0.1964

Activity: 333111138522

30" Plug Valve

(Unreviewed)

Quantity: 11.00

Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1,467.20	0.00	1,467.20	0.00	72,620.90	0.00	0.00	74,088.10
Total	16,139.20	0.00	16,139.20	0.00	798,829.90	0.00	0.00	814,969.10

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1,467.2000	5.0909	0.1964	288.2005	7.0000	1.5714	0.6364	116,424.3650

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
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224.0000	0.0491	20.3636	72.0500	1,467.2000
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Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS974 RS Means Crew Q3 Prod: US 1.5714 Eff: 100.00 Crew Hrs: 56.00 Labor Pcs: 4.00 Equipment Pcs: 0.00

Notes: Fluid Controls Systems - Quote

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2ZPLUG30	SSP-30" Plug Valve	1.00	11.00	EA	67,870.00	107.00	72,620.90	798,829.90
Z-PLUM	Plumbers	2.00	112.00	MH	72.05	100.00	72.05	8,069.60
Z-PLUM-APPR	Plumbers - Apprentice	1.00	56.00	MH	72.05	100.00	72.05	4,034.80
Z-PLUM-FORI	Plumbers - Foreman	1.00	56.00	MH	72.05	100.00	72.05	4,034.80

Biditem

819

Plug Valve, 42"

Takeoff Qty: 2.000 EA

Bid Qty: 2.000 EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1,466.94	0.00	1,466.94	0.00	80,250.00	0.00	0.00	81,716.94
Total	2,933.88	0.00	2,933.88	0.00	160,500.00	0.00	0.00	163,433.88

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
40.7200	0.0491	20.3600	4,013.6022	72.0501	72.0501	0.1964

Activity: 333111138522 42" Plug Valve (Unreviewed) Quantity: 2.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1,466.94	0.00	1,466.94	0.00	80,250.00	0.00	0.00	81,716.94
Total	2,933.88	0.00	2,933.88	0.00	160,500.00	0.00	0.00	163,433.88

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1,466.9400	5.0909	0.1964	288.1494	1.2727	1.5714	0.6364	128,412.5636

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
40.7200	0.0491	20.3600	72.0501	1,466.9400

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS974 RS Means Crew Q3 Prod: US 1.5714 Eff: 100.00 Crew Hrs: 10.18 Labor Pcs: 4.00 Equipment Pcs: 0.00

Notes: Fluid Controls Systems - Quote

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2ZPLUG42	SSP- 42" Plug Valve	1.00	2.00	EA	75,000.00	107.00	80,250.00	160,500.00
Z-PLUM	Plumbers	2.00	20.36	MH	72.05	100.00	72.05	1,466.94
Z-PLUM-APPR	Plumbers - Apprentice	1.00	10.18	MH	72.05	100.00	72.05	733.47
Z-PLUM-FORI	Plumbers - Foreman	1.00	10.18	MH	72.05	100.00	72.05	733.47

Biditem

820

12" Bypass

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	6,691.20	0.00	6,691.20	2,815.02	5,885.00	0.00	8,000.00	23,391.22
Total	6,691.20	0.00	6,691.20	2,815.02	5,885.00	0.00	8,000.00	23,391.22

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
96.0000	0.0104	96.0000	243.6585	69.7000	69.7000	0.0625

Activity: 333111138520 30"x12" Bypass (Unreviewed) Quantity: 1.00 Unit: LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
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U. Cost	6,691.20	0.00	6,691.20	2,815.02	5,885.00	0.00	8,000.00	23,391.22
Total	6,691.20	0.00	6,691.20	2,815.02	5,885.00	0.00	8,000.00	23,391.22

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
9,506.2200	16.0000	0.0625	594.1388	2.0000	0.5000	2.0000	11,695.6100

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
96.0000	0.0104	96.0000	69.7000	6,691.2000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS974 (Mod) RS Means Crew Q3 Prod: US 0.5 Eff: 100.00 Crew Hrs: 16.00 Labor Pcs: 6.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z33311200	Public sanitary utility sewerage piping, sewage ve	1.00	1.00	LS	5,500.00	107.00	5,885.00	5,885.00
4HOTTAP	Hot Tapping Sub	1.00	2.00	EA	4,000.00	100.00	4,000.00	8,000.00
8Z5433200200	Hyd. Excavator, 1.5 C.Y.	1.00	16.00	HR	148.16	100.00	148.16	2,370.48
8Z5433200400	Loader-Backhoe, 40 H.P.	1.00	16.00	HR	27.78	100.00	27.78	444.54
Z-EQMD	Equipment Operators, Medium Equipment	2.00	32.00	MH	65.00	100.00	65.00	2,080.00
Z-PLUM	Plumbers	2.00	32.00	MH	72.05	100.00	72.05	2,305.60
Z-PLUM-APPR	Plumbers - Apprentice	1.00	16.00	MH	72.05	100.00	72.05	1,152.80
Z-PLUM-FORI	Plumbers - Foreman	1.00	16.00	MH	72.05	100.00	72.05	1,152.80

Biditem

821

Air Release Valves

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4,611.20	0.00	4,611.20	0.00	3,498.90	0.00	0.00	8,110.10
Total	4,611.20	0.00	4,611.20	0.00	3,498.90	0.00	0.00	8,110.10

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
64.0000	0.0156	64.0000	126.7203	72.0500	72.0500	0.0417

Activity: 33311103020 Public sanitary utility sewerage piping, air release valve, 2" size (Unreviewed) Quantity: 3.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1,152.80	0.00	1,152.80	0.00	791.80	0.00	0.00	1,944.60
Total	3,458.40	0.00	3,458.40	0.00	2,375.40	0.00	0.00	5,833.80

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1,152.8000	5.3333	0.1875	216.1500	2.0000	1.5000	0.6667	2,916.9000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
48.0000	0.0625	16.0000	72.0500	1,152.8000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1160 (Mod) RS Means Crew PLUM Prod: US 1.5 Eff: 100.00 Crew Hrs: 16.00 Labor Pcs: 3.00 Equipment Pcs: 0.00

Notes: Public sanitary utility sewerage piping, air release valve, 2" size

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z33311065	Public sanitary utility sewerage piping, air release	1.00	3.00	EA	740.00	107.00	791.80	2,375.40
Z-PLUM	Plumbers	2.00	32.00	MH	72.05	100.00	72.05	2,305.60
Z-PLUM-APPR	Plumbers - Apprentice	1.00	16.00	MH	72.05	100.00	72.05	1,152.80

Activity: 33311103030 Public sanitary utility sewerage piping, air release valve, 3" size (Unreviewed) Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
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U. Cost	1,152.80	0.00	1,152.80	0.00	1,123.50	0.00	0.00	2,276.30
Total	1,152.80	0.00	1,152.80	0.00	1,123.50	0.00	0.00	2,276.30

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1,152.8000	8.0000	0.1250	144.1000	1.0000	1.0000	1.0000	2,276.3000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
16.0000	0.0625	16.0000	72.0500	1,152.8000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS934 RS Means Crew Q1 Prod: US 1 Eff: 100.00 Crew Hrs: 8.00 Labor Pcs: 2.00 Equipment Pcs: 0.00

Notes: Public sanitary utility sewage piping, air release valve, 3" size

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z33311070	Public sanitary utility sewage piping, air release	1.00	1.00	EA	1,050.00	107.00	1,123.50	1,123.50
Z-PLUM	Plumbers	1.00	8.00	MH	72.05	100.00	72.05	576.40
Z-PLUM-APPR	Plumbers - Apprentice	1.00	8.00	MH	72.05	100.00	72.05	576.40

Biditem

840

Odor Control Tank

Takeoff Qty: 1.000 EA

Bid Qty: 1.000 EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	13,130.00	0.00	13,130.00	2,725.26	398,896.00	0.00	0.00	414,751.26
Total	13,130.00	0.00	13,130.00	2,725.26	398,896.00	0.00	0.00	414,751.26

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
192.0000	0.0052	192.0000	2,160.1628	68.3854	68.3854	0.0139

Activity: 223219109360 Odor Control System (Unreviewed) Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	5,562.40	0.00	5,562.40	2,725.26	390,550.00	0.00	0.00	398,837.66
Total	5,562.40	0.00	5,562.40	2,725.26	390,550.00	0.00	0.00	398,837.66

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
8,287.6600	16.0000	0.0625	517.9788	2.0000	0.5000	2.0000	199,418.8300

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
80.0000	0.0125	80.0000	69.5300	5,562.4000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS934 (Mod) RS Means Crew Q1 Prod: US 0.5 Eff: 100.00 Crew Hrs: 16.00 Labor Pcs: 5.00 Equipment Pcs: 1.00

Notes: Biorem technologies Odor Control

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z22321130	TSC-JACOBS - Biorem technologies Odor Control	1.00	1.00	EA	365,000.00	107.00	390,550.00	390,550.00
8Z5433600900	Crawler Crane, 40 Ton	1.00	16.00	HR	170.33	100.00	170.33	2,725.26
Z-ELEC	Electricians	1.00	16.00	MH	67.35	100.00	67.35	1,077.60
Z-ELEC-FORI	Electricians - Foreman	1.00	16.00	MH	67.35	100.00	67.35	1,077.60
Z-EQHV	Equipment Operators, Crane or Shovel	1.00	16.00	MH	68.85	100.00	68.85	1,101.60
Z-PLUM	Plumbers	1.00	16.00	MH	72.05	100.00	72.05	1,152.80
Z-PLUM-APPR	Plumbers - Apprentice	1.00	16.00	MH	72.05	100.00	72.05	1,152.80

Activity: 233116163557 Ductwork,10" rigid fiberglass reinforced plastic (Unreviewed) Quantity: 40.00 Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
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U. Cost	28.06	0.00	28.06	0.00	10.70	0.00	0.00	38.76
Total	1,122.40	0.00	1,122.40	0.00	428.00	0.00	0.00	1,550.40

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
28.0600	0.2000	5.0000	140.3000	1.0000	40.0000	0.0250	1,550.4000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
16.0000	2.5000	0.4000	70.1500	28.0600

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS986

RS Means Crew Q9

Prod: US 40

Eff: 100.00

Crew Hrs: 8.00

Labor Pcs: 2.00

Equipment Pcs: 0.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z23313000	Ductwork, rigid fiberglass reinforced plastic, for	1.00	40.00	LF	10.00	107.00	10.70	428.00
Z-SHEE	Sheet Metal Workers	1.00	8.00	MH	70.15	100.00	70.15	561.20
Z-SHEE-APPR	Sheet Metal Workers - Apprentice	1.00	8.00	MH	70.15	100.00	70.15	561.20

Activity: 233116163560	Ductwork, 16" rigid fiberglass reinforced plastic	(Unreviewed)	Quantity: 100.00	Unit: LF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	56.12	0.00	56.12	0.00	69.55	0.00	0.00	125.67
Total	5,612.00	0.00	5,612.00	0.00	6,955.00	0.00	0.00	12,567.00

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
56.1200	0.4000	2.5000	140.3000	5.0000	20.0000	0.0500	2,513.4000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
80.0000	1.2500	0.8000	70.1500	56.1200

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS986

RS Means Crew Q9

Prod: US 20

Eff: 100.00

Crew Hrs: 40.00

Labor Pcs: 2.00

Equipment Pcs: 0.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z23313015	Ductwork, rigid fiberglass reinforced plastic, for	1.00	100.00	LF	65.00	107.00	69.55	6,955.00
Z-SHEE	Sheet Metal Workers	1.00	40.00	MH	70.15	100.00	70.15	2,806.00
Z-SHEE-APPR	Sheet Metal Workers - Apprentice	1.00	40.00	MH	70.15	100.00	70.15	2,806.00

Activity: 034843900600	Precast concrete cradle	(Unreviewed)	Quantity: 12.00	Unit: EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	69.43	0.00	69.43	0.00	80.25	0.00	0.00	149.68
Total	833.20	0.00	833.20	0.00	963.00	0.00	0.00	1,796.20

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
69.4333	0.6667	1.5000	104.1500	1.0000	12.0000	0.0833	1,796.2000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
16.0000	0.7500	1.3333	52.0750	69.4333

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS770

RS Means Crew D1

Prod: US 12

Eff: 100.00

Crew Hrs: 8.00

Labor Pcs: 2.00

Equipment Pcs: 0.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03481030	Precast Cradle	1.00	12.00	EA	75.00	107.00	80.25	963.00
Z-BRHE	Bricklayer Helpers	1.00	8.00	MH	46.65	100.00	46.65	373.20
Z-BRIC	Bricklayers	1.00	8.00	MH	57.50	100.00	57.50	460.00

Biditem - Parent

PS & Influent Screen Struct Ventilation Improve

9

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	170,784.00	0.00	170,784.00	0.00	129,465.72	0.00	0.00	300,249.72
Total	170,784.00	0.00	170,784.00	0.00	129,465.72	0.00	0.00	300,249.72

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
2,560.0000	0.0004	2,560.0000	117.2850	66.7125	66.7125	0.0000

Subtotal

Pump Station 28 Items

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Misc 1	Misc 2	Misc 3	Total
Total	2,389,304.54	17,354.34	2,406,658.88	2,087,466.65	8,853,316.67	15,921.60	3,484,545.10	0.00	0.00	0.00	16,847,908.90

Subtotal

Force Main Items

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Misc 1	Misc 2	Misc 3	Total
Total	384,637.30	0.00	384,637.30	213,177.51	692,844.89	0.00	30,000.00	0.00	0.00	0.00	1,320,659.70

Biditem

901

Ventilation

Takeoff Qty: 1.000 LS
Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	170,784.00	0.00	170,784.00	0.00	129,465.72	0.00	0.00	300,249.72
Total	170,784.00	0.00	170,784.00	0.00	129,465.72	0.00	0.00	300,249.72

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
2,560.0000	0.0004	2,560.0000	117.2850	66.7125	66.7125	0.0031

Activity: 233416100300	PS-28-EF-2 Exhaust & Supply Fans Model CUBE-300/ RSFP-180 & Dampers	(Unreviewed)	Quantity: 9.00	Unit: EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	18,976.00	0.00	18,976.00	0.00	14,385.08	0.00	0.00	33,361.08
Total	170,784.00	0.00	170,784.00	0.00	129,465.72	0.00	0.00	300,249.72

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
18,976.0000	35.5556	0.0281	533.7000	40.0000	0.2250	4.4444	7,506.2430

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
2,560.0000	0.0035	284.4444	66.7125	18,976.0000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS964 (Mod) RS Means Crew Q20 Prod: US 0.225 Eff: 100.00 Crew Hrs: 320.00 Labor Pcs: 8.00 Equipment Pcs: 0.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z23341310	Fans, air conditioning and process air handling, i	1.00	9.00	EA	13,444.00	107.00	14,385.08	129,465.72
Z-ELEC	Electricians	2.00	640.00	MH	67.35	100.00	67.35	43,104.00
Z-MILL	Millwrights	3.00	960.00	MH	62.85	100.00	62.85	60,336.00
Z-SHEE	Sheet Metal Workers	2.00	640.00	MH	70.15	100.00	70.15	44,896.00
Z-SHEE-APPR	Sheet Metal Workers - Apprentice	1.00	320.00	MH	70.15	100.00	70.15	22,448.00

Biditem - Parent

10

Electrical and Generator Building

Takeoff Qty: 1.000 LS
Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	162,110.02	0.00	162,110.02	26,057.32	197,947.03	0.00	1,482,328.72	1,868,443.09
Total	162,110.02	0.00	162,110.02	26,057.32	197,947.03	0.00	1,482,328.72	1,868,443.09

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
2,880.1200	0.0003	2,880.1200	648.7379	56.2859	56.2859	0.0000

Subtotal

Pump Station 28 Items

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Misc 1	Misc 2	Misc 3	Total
Total	2,389,304.54	17,354.34	2,406,658.88	2,087,466.65	8,853,316.67	15,921.60	3,484,545.10	0.00	0.00	0.00	16,847,908.90

Subtotal

Force Main Items

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Misc 1	Misc 2	Misc 3	Total
Total	384,637.30	0.00	384,637.30	213,177.51	692,844.89	0.00	30,000.00	0.00	0.00	0.00	1,320,659.70

Biditem

1001

Strip Footings

Takeoff Qty: 1.000 LS
Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	11,114.47	0.00	11,114.47	1,652.67	16,641.08	0.00	0.00	29,408.22
Total	11,114.47	0.00	11,114.47	1,652.67	16,641.08	0.00	0.00	29,408.22

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
196.5300	0.0051	196.5300	149.6373	56.5536	56.5536	0.0107

Activity: 031113450150	C.I.P. concrete forms, footing, continuous wall, plywood, 4 use, includes erecting, bracing, stripping	Quantity: 572.00	Unit: SF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	3.71	0.00	3.71	0.00	5.00	0.00	0.00	8.71
Total	2,121.53	0.00	2,121.53	0.00	2,858.23	0.00	0.00	4,979.76

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3.7090	0.0165	60.6061	224.7860	1.1798	484.8485	0.0021	4,221.0299

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
37.7500	15.1523	0.0660	56.1995	3.7090

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS660 RS Means Crew C1 Prod: US 484.8485 Eff: 100.00 Crew Hrs: 9.44 Labor Pcs: 4.00 Equipment Pcs: 0.00

Notes: C.I.P. concrete forms, footing, continuous wall, plywood, 4 use, includes erecting, bracing, stripping and cleaning

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03111930	C.I.P. concrete forms, footing, continuous wall, p	1.00	572.00	SF	4.67	107.00	5.00	2,858.23
Z-CARP	Carpenters	3.00	28.31	MH	58.60	100.00	58.60	1,658.97
Z-CLAB	Common Building Laborers	1.00	9.44	MH	49.00	100.00	49.00	462.56

Activity: 031113451550	C.I.P. concrete forms, footing, keyway, tapered wood, 2" x 6", 4 use, includes erecting, bracing, st	Quantity: 143.00	Unit: LF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.94	0.00	0.94	0.00	0.98	0.00	0.00	1.92
Total	134.19	0.00	134.19	0.00	140.77	0.00	0.00	274.96

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.9384	0.0160	62.5000	58.6495	0.2860	500.0000	0.0020	961.3986
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
2.2900	62.4454	0.0160	58.5983	0.9384			

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1146 RS Means Crew CARP Prod: US 500 Eff: 100.00 Crew Hrs: 2.29 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: C.I.P. concrete forms, footing, keyway, tapered wood, 2" x 6", 4 use, includes erecting, bracing, stripping and cleaning

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03111950	C.I.P. concrete forms, footing, keyway, tapered wo	1.00	143.00	LF	0.92	107.00	0.98	140.77
Z-CARP	Carpenters	1.00	2.29	MH	58.60	100.00	58.60	134.19

Activity: 032111600500 Reinforcing steel, in place, footings, #4 to #7, A615, grade 60, incl labor for accessories, excl mat Quantity: 1.30 Unit: TON

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	983.65	0.00	983.65	0.00	1,524.75	0.00	0.00	2,508.40
Total	1,278.74	0.00	1,278.74	0.00	1,982.18	0.00	0.00	3,260.92

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
983.6462	15.2381	0.0656	64.5519	2.4762	0.5250	1.9048	1,316.9116
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
19.8100	0.0656	15.2385	64.5502	983.6462			

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1150 RS Means Crew RODM Prod: US 0.525 Eff: 100.00 Crew Hrs: 19.81 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Reinforcing steel, in place, footings, #4 to #7, A615, grade 60, incl labor for accessories, excl material for accessories

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03212020	Reinforcing steel, in place, footings, #4 to #7, A	1.00	1.30	TON	1,425.00	107.00	1,524.75	1,982.18
Z-RODM	Rodmen (Reinforcing)	1.00	19.81	MH	64.55	100.00	64.55	1,278.74

Activity: 032111602410 Reinforcing steel, in place, dowels, deformed, 2' long, #4, A615, grade 60 Quantity: 286.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.13	0.00	2.13	0.00	1.12	0.00	0.00	3.25
Total	609.35	0.00	609.35	0.00	321.32	0.00	0.00	930.67

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.1306	0.0330	30.3030	64.5635	1.1798	242.4242	0.0041	788.8705
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
9.4400	30.2966	0.0330	64.5498	2.1306			

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1150 RS Means Crew RODM Prod: US 242.4242 Eff: 100.00 Crew Hrs: 9.44 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Reinforcing steel, in place, dowels, deformed, 2' long, #4, A615, grade 60

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03212095	Reinforcing steel, in place, dowels, deformed, 2'	1.00	286.00	EA	1.05	107.00	1.12	321.32
Z-RODM	Rodmen (Reinforcing)	1.00	9.44	MH	64.55	100.00	64.55	609.35

Activity: 033113350150 Structural concrete, ready mix, heavyweight, 3000 psi, includes local aggregate, sand, Portland ceme Quantity: 59.20 Unit: CY

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Notes: Structural concrete, ready mix, heavyweight, 3000 psi, includes local aggregate, sand, Portland cement (Type I) and water, delivC.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03311085	Structural concrete, ready mix, heavyweight, 3000	1.00	59.20	CY	179.00	107.00	191.53	11,338.58

Activity: 033113701900 Structural concrete, placing, continuous footing, shallow, direct chute, includes leveling (strike o Quantity: 59.16 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	20.03	0.00	20.03	0.49	0.00	0.00	0.00	20.52
Total	1,184.95	0.00	1,184.95	29.27	0.00	0.00	0.00	1,214.22

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
20.5243	0.0667	15.0000	307.8651	0.4930	120.0000	0.0083	2,462.9209

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
23.6600	2.5004	0.3999	50.0824	20.0296

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS752 RS Means Crew C6 Prod: US 120 Eff: 100.00 Crew Hrs: 3.94 Labor Pcs: 6.00 Equipment Pcs: 2.00

Notes: Structural concrete, placing, continuous footing, shallow, direct chute, includes leveling (strike off) & consolidation, excludeC.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03311370	Structural concrete, placing, continuous footing,	1.00	59.16	CY	0.00	107.00	0.00	0.00
8Z5433103000	Gas Engine Vibrator	2.00	7.89	HR	3.71	100.00	3.71	29.27
Z-CEFI	Cement Finishers	1.00	3.94	MH	55.00	100.00	55.00	216.70
Z-CLAB	Common Building Laborers	4.00	15.78	MH	49.00	100.00	49.00	773.22
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	3.94	MH	49.50	100.00	49.50	195.03

Activity: 033513300100 Concrete finishing, fresh concrete flatwork, floors, basic finishing for unspecified flatwork, bull Quantity: 799.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.32	0.00	0.32	0.00	0.00	0.00	0.00	0.32
Total	254.40	0.00	254.40	0.00	0.00	0.00	0.00	254.40

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.3184	0.0020	500.0000	159.1990	0.1998	4,000.0000	0.0003	1,273.5920

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
4.8000	166.4583	0.0060	53.0000	0.3184

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS662 RS Means Crew C10 Prod: US 4000 Eff: 100.00 Crew Hrs: 1.60 Labor Pcs: 3.00 Equipment Pcs: 0.00

Notes: Concrete finishing, fresh concrete flatwork, floors, basic finishing for unspecified flatwork, bull float only, excl placing, stS.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03351000	Concrete finishing, fresh concrete flatwork, floor	1.00	799.00	SF	0.00	107.00	0.00	0.00
Z-CEFI	Cement Finishers	2.00	3.20	MH	55.00	100.00	55.00	176.00
Z-CLAB	Common Building Laborers	1.00	1.60	MH	49.00	100.00	49.00	78.40

Activity: 312316130050 Excavating, trench or continuous footing, common earth, 3/8 C.Y. excavator, 1' to 4' deep, excludes Quantity: 800.40 Unit: BCY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	6.10	0.00	6.10	1.85	0.00	0.00	0.00	7.95
Total	4,881.48	0.00	4,881.48	1,483.67	0.00	0.00	0.00	6,365.15

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
7.9525	0.0535	18.6916	148.6441	5.3527	149.5327	0.0067	1,189.1531
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
85.6400	9.3461	0.1070	57.0000	6.0988			

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS144 RS Means Crew B11C Prod: US 149.5327 Eff: 100.00 Crew Hrs: 42.82 Labor Pcs: 2.00 Equipment Pcs: 1.00

Notes: Excavating, trench or continuous footing, common earth, 3/8 C.Y. excavator, 1' to 4' deep, excludes sheeting or dewatering

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31231000	Excavating, trench or continuous footing, common e	1.00	800.40	BCY	0.00	107.00	0.00	0.00
8Z5433200450	Backhoe Loader, 48 H.P.	1.00	42.82	HR	34.65	100.00	34.65	1,483.67
Z-CLAB	Common Building Laborers	1.00	42.82	MH	49.00	100.00	49.00	2,098.18
Z-EQMD	Equipment Operators, Medium Equipment	1.00	42.82	MH	65.00	100.00	65.00	2,783.30

Activity: 312316132100 Excavating, trench or continuous footing, common earth, trim sides and bottom for concrete pours, ex Quantity: 799.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.79	0.00	0.79	0.10	0.00	0.00	0.00	0.88
Total	628.35	0.00	628.35	77.81	0.00	0.00	0.00	706.16

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.8838	0.0053	187.5015	165.7147	0.5327	1,500.0117	0.0007	1,325.7175
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
12.7800	62.5196	0.0160	49.1667	0.7864			

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS250 RS Means Crew B18 Prod: US 1500 Eff: 100.00 Crew Hrs: 4.26 Labor Pcs: 3.00 Equipment Pcs: 1.00

Notes: Excavating, trench or continuous footing, common earth, trin sides and bottom for concrete pours, excludes sheeting or dewaterinS.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31231325	Cycle hauling(wait, load, travel, unload or dump &	1.00	799.00	LCY	0.00	107.00	0.00	0.00
8Z5433201350	Vibrating Plate, Gas, 21"	1.00	4.26	HR	18.27	100.00	18.27	77.81
Z-CLAB	Common Building Laborers	2.00	8.52	MH	49.00	100.00	49.00	417.48
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	4.26	MH	49.50	100.00	49.50	210.87

Activity: 312323132200 Backfill, trench, 6" to 12" lifts, dozer backfilling, compaction with vibratingroller Quantity: 21.17 Unit: BCY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.01	0.00	1.01	2.92	0.00	0.00	0.00	3.94
Total	21.48	0.00	21.48	61.92	0.00	0.00	0.00	83.40

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3.9395	0.0113	88.2451	347.6449	0.0300	705.9608	0.0014	2,781.1588
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
0.3600	58.8056	0.0170	59.6667	1.0146			

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS094 RS Means Crew B10C Prod: US 705.8824 Eff: 100.00 Crew Hrs: 0.24 Labor Pcs: 1.50 Equipment Pcs: 2.00

Notes: Backfill, trench, 6" to 12" lifts, dozer backfilling, compaction with vibratingroller

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31234630	Excavating, large volume projects, 200,000 plus B.	1.00	21.17	BCY	0.00	107.00	0.00	0.00

8Z5433203100	Vibratory Roller, Towed, 23 Ton	1.00	0.24	HR	85.20	100.00	85.21	20.45
8Z5433204260	Dozer, 200 H.P.	1.00	0.24	HR	172.80	100.00	172.79	41.47
Z-CLAB	Common Building Laborers	0.50	0.12	MH	49.00	100.00	49.00	5.88
Z-EQMD	Equipment Operators, Medium Equipment	1.00	0.24	MH	65.00	100.00	65.00	15.60

Biditem

1002

Mat Footing

Takeoff Qty: 590.000 SF

Bid Qty: 590.000 SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	7.56	0.00	7.56	0.38	19.85	0.00	0.00	27.78
Total	4,459.94	0.00	4,459.94	223.41	11,709.56	0.00	0.00	16,392.91

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
79.3400	7.4363	0.1345	206.6160	56.2130	56.2130	15.5837

Activity: 031113450150

C.I.P. concrete forms, footing, continuous wall, plywood, 4 use, includes erecting, bracing, stripping

(Unreviewed)

Quantity: 312.11

Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	3.71	0.00	3.71	0.00	5.00	0.00	0.00	8.71
Total	1,157.72	0.00	1,157.72	0.00	1,559.58	0.00	0.00	2,717.30

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3.7093	0.0165	60.6062	224.8087	0.6437	484.8499	0.0021	4,221.2125

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
20.6000	15.1510	0.0660	56.2000	3.7093

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS660 RS Means Crew C1 Prod: US 484.8499 Eff: 100.00 Crew Hrs: 5.15 Labor Pcs: 4.00 Equipment Pcs: 0.00

Notes: C.I.P. concrete forms, footing, continuous wall, plywood, 4 use, includes erecting, bracing, stripping and cleaning

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03111930	C.I.P. concrete forms, footing, continuous wall, p	1.00	312.11	SF	4.67	107.00	5.00	1,559.58
Z-CARP	Carpenters	3.00	15.45	MH	58.60	100.00	58.60	905.37
Z-CLAB	Common Building Laborers	1.00	5.15	MH	49.00	100.00	49.00	252.35

Activity: 031113451550

C.I.P. concrete forms, footing, keyway, tapered wood, 2" x 6", 4 use, includes erecting, bracing, st

(Unreviewed)

Quantity: 92.00

Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.94	0.00	0.94	0.00	0.98	0.00	0.00	1.92
Total	86.14	0.00	86.14	0.00	90.56	0.00	0.00	176.70

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.9363	0.0160	62.5000	58.5190	0.1840	500.0000	0.0020	960.3261

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1.4700	62.5850	0.0160	58.5986	0.9363

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1146 RS Means Crew CARP Prod: US 500 Eff: 100.00 Crew Hrs: 1.47 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: C.I.P. concrete forms, footing, keyway, tapered wood, 2" x 6", 4 use, includes erecting, bracing, stripping and cleaning

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03111950	C.I.P. concrete forms, footing, keyway, tapered wo	1.00	92.00	LF	0.92	107.00	0.98	90.56
Z-CARP	Carpenters	1.00	1.47	MH	58.60	100.00	58.60	86.14

Activity: 032111600500	Reinforcing steel, in place, footings, #4 to #7, A615, grade 60, incl labor for accessories, excl mat	(Unreviewed)	Quantity: .97	Unit: TON
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	983.56	0.00	983.56	0.00	1,524.75	0.00	0.00	2,508.31
Total	954.05	0.00	954.05	0.00	1,479.01	0.00	0.00	2,433.06

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
983.5567	15.2379	0.0656	64.5466	1.8476	0.5250	1.9047	1,316.8759

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
14.7800	0.0656	15.2371	64.5501	983.5567

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1150 RS Means Crew RODM Prod: US 0.525 Eff: 100.00 Crew Hrs: 14.78 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Reinforcing steel, in place, footings, #4 to #7, A615, grade 60, incl labor for accessories, excl material for accessories

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03212020	Reinforcing steel, in place, footings, #4 to #7, A	1.00	0.97	TON	1,425.00	107.00	1,524.75	1,479.01
Z-RODM	Rodmen (Reinforcing)	1.00	14.78	MH	64.55	100.00	64.55	954.05

Activity: 032111602410	Reinforcing steel, in place, dowels, deformed, 2' long, #4, A615, grade 60	(Unreviewed)	Quantity: 184.00	Unit: EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.13	0.00	2.13	0.00	1.12	0.00	0.00	3.25
Total	391.82	0.00	391.82	0.00	206.72	0.00	0.00	598.54

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.1295	0.0330	30.3030	64.5290	0.7590	242.4242	0.0041	788.5903

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
6.0700	30.3130	0.0330	64.5502	2.1295

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1150 RS Means Crew RODM Prod: US 242.4242 Eff: 100.00 Crew Hrs: 6.07 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Reinforcing steel, in place, dowels, deformed, 2' long, #4, A615, grade 60

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03212095	Reinforcing steel, in place, dowels, deformed, 2'	1.00	184.00	EA	1.05	107.00	1.12	206.72
Z-RODM	Rodmen (Reinforcing)	1.00	6.07	MH	64.55	100.00	64.55	391.82

Activity: 033113350150	Structural concrete, ready mix, heavyweight, 3000 psi, includes local aggregate, sand, Portland ceme	(Unreviewed)	Quantity: 43.72	Unit: CY
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Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Notes: Structural concrete, ready mix, heavyweight, 3000 psi, includes local aggregate, sand, Portland cement (Type I) and water, delivC.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03311085	Structural concrete, ready mix, heavyweight, 3000	1.00	43.72	CY	179.00	107.00	191.53	8,373.69

Activity: 033113701900	Structural concrete, placing, continuous footing, shallow, direct chute, includes leveling (strike o	(Unreviewed)	Quantity: 42.72	Unit: CY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	20.04	0.00	20.04	0.50	0.00	0.00	0.00	20.53
Total	855.94	0.00	855.94	21.15	0.00	0.00	0.00	877.09

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
20.5311	0.0667	15.0000	307.9670	0.3560	120.0000	0.0083	2,463.7360

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
17.0900	2.4997	0.4000	50.0843	20.0360

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS752 RS Means Crew C6 Prod: US 120 Eff: 100.00 Crew Hrs: 2.85 Labor Pcs: 6.00 Equipment Pcs: 2.00

Notes: Structural concrete, placing, continuous footing, shallow, direct chute, includes leveling (strike off) & consolidation, exclude C.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03311370	Structural concrete, placing, continuous footing,	1.00	42.72	CY	0.00	107.00	0.00	0.00
8Z5433103000	Gas Engine Vibrator	2.00	5.70	HR	3.71	100.00	3.71	21.15
Z-CEFI	Cement Finishers	1.00	2.85	MH	55.00	100.00	55.00	156.75
Z-CLAB	Common Building Laborers	4.00	11.39	MH	49.00	100.00	49.00	558.11
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	2.85	MH	49.50	100.00	49.50	141.08

Activity: 033513300100 Concrete finishing, fresh concrete flatwork, floors, basic finishing for unspecified flatwork, bull (Unreviewed) Quantity: 590.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.32	0.00	0.32	0.00	0.00	0.00	0.00	0.32
Total	187.62	0.00	187.62	0.00	0.00	0.00	0.00	187.62

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.3180	0.0020	500.0000	159.0000	0.1475	4,000.0000	0.0003	1,272.0000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
3.5400	166.6667	0.0060	53.0000	0.3180

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS662 RS Means Crew C10 Prod: US 4000 Eff: 100.00 Crew Hrs: 1.18 Labor Pcs: 3.00 Equipment Pcs: 0.00

Notes: Concrete finishing, fresh concrete flatwork, floors, basic finishing for unspecified flatwork, bull float only, excl placing, stS.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03351000	Concrete finishing, fresh concrete flatwork, floor	1.00	590.00	SF	0.00	107.00	0.00	0.00
Z-CEFI	Cement Finishers	2.00	2.36	MH	55.00	100.00	55.00	129.80
Z-CLAB	Common Building Laborers	1.00	1.18	MH	49.00	100.00	49.00	57.82

Activity: 312316130050 Excavating, trench or continuous footing, common earth, 3/8 C.Y. excavator, 1' to 4' deep, excludes (Unreviewed) Quantity: 57.17 Unit: BCY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	6.10	0.00	6.10	1.85	0.00	0.00	0.00	7.96
Total	348.84	0.00	348.84	106.03	0.00	0.00	0.00	454.87

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
7.9564	0.0535	18.6922	148.7232	0.3823	149.5374	0.0067	1,189.7858

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
6.1200	9.3415	0.1070	57.0000	6.1018

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS144 RS Means Crew B11C Prod: US 149.5374 Eff: 100.00 Crew Hrs: 3.06 Labor Pcs: 2.00 Equipment Pcs: 1.00

Notes: Excavating, trench or continuous footing, common earth, 3/8 C.Y. excavator, 1' to 4' deep, excludes sheeting or dewatering

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31231000	Excavating, trench or continuous footing, common e	1.00	57.17	BCY	0.00	107.00	0.00	0.00
8Z5433200450	Backhoe Loader, 48 H.P.	1.00	3.06	HR	34.65	100.00	34.65	106.03
Z-CLAB	Common Building Laborers	1.00	3.06	MH	49.00	100.00	49.00	149.94

Z-EQMD	Equipment Operators, Medium Equipment	1.00	3.06	MH	65.00	100.00	65.00	198.90
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Activity:	312316132100	Excavating, trench or continuous footing, common earth, trim sides and bottom for concrete pours, ex	(Unreviewed)	Quantity: 590.00	Unit: SF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.79	0.00	0.79	0.10	0.00	0.00	0.00	0.88
Total	464.14	0.00	464.14	57.53	0.00	0.00	0.00	521.67

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.8842	0.0053	187.5040	165.7885	0.3933	1,500.0318	0.0007	1,326.3078

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
9.4400	62.5000	0.0160	49.1674	0.7867

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS250 RS Means Crew B18 Prod: US 1500.0318 Eff: 100.00 Crew Hrs: 3.15 Labor Pcs: 3.00 Equipment Pcs: 1.00

Notes: Excavating, trench or continuous footing, common earth, trin sides and bottom for concrete pours, excludes sheeting or dewaterinS.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31231325	Cycle hauling(wait, load, travel, unload or dump &	1.00	590.00	LCY	0.00	107.00	0.00	0.00
8Z5433201350	Vibrating Plate, Gas, 21"	1.00	3.15	HR	18.27	100.00	18.26	57.53
Z-CLAB	Common Building Laborers	2.00	6.29	MH	49.00	100.00	49.00	308.21
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	3.15	MH	49.50	100.00	49.50	155.93

Activity:	312323132200	Backfill, trench, 6" to 12" lifts, dozer backfilling, compaction with vibratingroller	(Unreviewed)	Quantity: 13.45	Unit: BCY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.02	0.00	1.02	2.88	0.00	0.00	0.00	3.89
Total	13.67	0.00	13.67	38.70	0.00	0.00	0.00	52.37

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3.8937	0.0113	88.2546	343.6352	0.0191	706.0367	0.0014	2,749.0814

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.2300	58.4783	0.0171	59.4348	1.0164

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS094 RS Means Crew B10C Prod: US 706.0367 Eff: 100.00 Crew Hrs: 0.15 Labor Pcs: 1.50 Equipment Pcs: 2.00

Notes: Backfill, trench, 6" to 12" lifts, dozer backfilling, compaction with vibratingroller

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31234630	Excavating, large volume projects, 200,000 plus B.	1.00	13.45	BCY	0.00	107.00	0.00	0.00
8Z5433203100	Vibratory Roller, Towed, 23 Ton	1.00	0.15	HR	85.20	100.00	85.20	12.78
8Z5433204260	Dozer, 200 H.P.	1.00	0.15	HR	172.80	100.00	172.80	25.92
Z-CLAB	Common Building Laborers	0.50	0.08	MH	49.00	100.00	49.00	3.92
Z-EQMD	Equipment Operators, Medium Equipment	1.00	0.15	MH	65.00	100.00	65.00	9.75

Biditem

1003

Spread Footing, 8'x8'x2'

Takeoff Qty: 5.000 EA

Bid Qty: 5.000 EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	686.88	0.00	686.88	43.64	1,315.21	0.00	0.00	2,045.73
Total	3,434.38	0.00	3,434.38	218.19	6,576.06	0.00	0.00	10,228.63

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
61.0600	0.0819	12.2120	167.5177	56.2460	56.2460	0.2054

Activity: 031113450500	C.I.P. concrete forms, footing, continuous wall, dowel supports, 1 use, includes erecting and bracin	Quantity: 90.00	Unit: LF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	3.60	0.00	3.60	0.00	2.70	0.00	0.00	6.29
Total	323.71	0.00	323.71	0.00	242.68	0.00	0.00	566.39

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3.5968	0.0160	62.5000	224.7986	0.1800	500.0000	0.0020	3,146.6111

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
5.7600	15.6250	0.0640	56.1997	3.5968

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS660 RS Means Crew C1 Prod: US 500 Eff: 100.00 Crew Hrs: 1.44 Labor Pcs: 4.00 Equipment Pcs: 0.00

Notes: C.I.P. concrete forms, footing, continuous wall, dowel supports, 1 use, includes erecting and bracing

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03111935	C.I.P. concrete forms, footing, continuous wall, d	1.00	90.00	LF	2.52	107.00	2.70	242.68
Z-CARP	Carpenters	3.00	4.32	MH	58.60	100.00	58.60	253.15
Z-CLAB	Common Building Laborers	1.00	1.44	MH	49.00	100.00	49.00	70.56

Activity: 031113455150	C.I.P. concrete forms, footing, spread, plywood, 4 use, includes erecting, bracing, stripping and cl	Quantity: 320.00	Unit: SF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4.33	0.00	4.33	0.00	2.03	0.00	0.00	6.36
Total	1,384.77	0.00	1,384.77	0.00	650.56	0.00	0.00	2,035.33

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
4.3274	0.0193	51.9481	224.8003	0.7700	415.5844	0.0024	2,643.2857

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
24.6400	12.9870	0.0770	56.2001	4.3274

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS660 RS Means Crew C1 Prod: US 415.5844 Eff: 100.00 Crew Hrs: 6.16 Labor Pcs: 4.00 Equipment Pcs: 0.00

Notes: C.I.P. concrete forms, footing, spread, plywood, 4 use, includes erecting, bracing, stripping and cleaning

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03112020	C.I.P. concrete forms, footing, spread, plywood, 4	1.00	320.00	SF	1.90	107.00	2.03	650.56
Z-CARP	Carpenters	3.00	18.48	MH	58.60	100.00	58.60	1,082.93
Z-CLAB	Common Building Laborers	1.00	6.16	MH	49.00	100.00	49.00	301.84

Activity: 032111600500	Reinforcing steel, in place, footings, #4 to #7, A615, grade 60, incl labor for accessories, excl mat	Quantity: .75	Unit: TON
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	983.75	0.00	983.75	0.00	1,524.75	0.00	0.00	2,508.49
Total	737.81	0.00	737.81	0.00	1,143.56	0.00	0.00	1,881.37

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
983.7467	15.2381	0.0656	64.5582	1.4286	0.5250	1.9048	1,316.9557

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
11.4300	0.0656	15.2400	64.5503	983.7467

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew:RS1150RS Means Crew RODMProd: US0.525Eff: 100.00Crew Hrs: 11.43Labor Pcs: 1.00Equipment Pcs: 0.00

Notes: Reinforcing steel, in place, footings, #4 to #7, A615, grade 60, incl labor for accessories, excl material for accessories

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03212020	Reinforcing steel, in place, footings, #4 to #7, A	1.00	0.75	TON	1,425.00	107.00	1,524.75	1,143.56
Z-RODM	Rodmen (Reinforcing)	1.00	11.43	MH	64.55	100.00	64.55	737.81

Activity: 033113350150	Structural concrete, ready mix, heavyweight, 3000 psi, includes local aggregate, sand, Portland ceme	Quantity: 23.70	Unit: CY
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Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Notes: Structural concrete, ready mix, heavyweight, 3000 psi, includes local aggregate, sand, Portland cement (Type I) and water, delivC.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03311085	Structural concrete, ready mix, heavyweight, 3000	1.00	23.70	CY	179.00	107.00	191.53	4,539.26

Activity: 033113702600	Structural concrete, placing, spread footing, direct chute, over 5 C.Y., includes leveling (strike o	Quantity: 23.70	Unit: CY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	20.03	0.00	20.03	0.49	0.00	0.00	0.00	20.53
Total	474.79	0.00	474.79	11.72	0.00	0.00	0.00	486.51

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
20.5278	0.0667	15.0000	307.9177	0.1975	120.0000	0.0083	2,463.3418

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
9.4800	2.5000	0.4000	50.0833	20.0333

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew:RS752RS Means Crew C6Prod: US120Eff: 100.00Crew Hrs: 1.58Labor Pcs: 6.00Equipment Pcs: 2.00

Notes: Structural concrete, placing, spread footing, direct chute, over 5 C.Y., includes leveling (strike off) & consolidation, excludeC.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03311415	Structural concrete, placing, spread footing, dire	1.00	23.70	CY	0.00	107.00	0.00	0.00
8Z5433103000	Gas Engine Vibrator	2.00	3.16	HR	3.71	100.00	3.71	11.72
Z-CEFI	Cement Finishers	1.00	1.58	MH	55.00	100.00	55.00	86.90
Z-CLAB	Common Building Laborers	4.00	6.32	MH	49.00	100.00	49.00	309.68
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	1.58	MH	49.50	100.00	49.50	78.21

Activity: 033513300100	Concrete finishing, fresh concrete flatwork, floors, basic finishing for unspecified flatwork, bull	Quantity: 320.00	Unit: SF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.32	0.00	0.32	0.00	0.00	0.00	0.00	0.32
Total	101.76	0.00	101.76	0.00	0.00	0.00	0.00	101.76

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.3180	0.0020	500.0000	159.0000	0.0800	4,000.0000	0.0003	1,272.0000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1.9200	166.6667	0.0060	53.0000	0.3180

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew:RS662RS Means Crew C10Prod: US4000Eff: 100.00Crew Hrs: 0.64Labor Pcs: 3.00Equipment Pcs: 0.00

Notes: Concrete finishing, fresh concrete flatwork, floors, basic finishing for unspecified flatwork, bull float only, excl placing, stS.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03351000	Concrete finishing, fresh concrete flatwork, floor	1.00	320.00	SF	0.00	107.00	0.00	0.00
Z-CEFI	Cement Finishers	2.00	1.28	MH	55.00	100.00	55.00	70.40
Z-CLAB	Common Building Laborers	1.00	0.64	MH	49.00	100.00	49.00	31.36

Activity: 312316132100	Excavating, trench or continuous footing, common earth, trim sides and bottom for concrete pours, ex	Quantity: 320.00	Unit: SF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.79	0.00	0.79	0.10	0.00	0.00	0.00	0.88
Total	251.74	0.00	251.74	31.23	0.00	0.00	0.00	282.97

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.8843	0.0053	187.4963	165.7995	0.2133	1,499.9707	0.0007	1,326.3960

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
5.1200	62.5000	0.0160	49.1680	0.7867

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS250 RS Means Crew B18 Prod: US 1500 Eff: 100.00 Crew Hrs: 1.71 Labor Pcs: 3.00 Equipment Pcs: 1.00

Notes: Excavating, trench or continuous footing, common earth, trim sides and bottom for concrete pours, excludes sheeting or dewaterinS.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31231325	Cycle hauling(wait, load, travel, unload or dump &	1.00	320.00	LCY	0.00	107.00	0.00	0.00
8Z5433201350	Vibrating Plate, Gas, 21"	1.00	1.71	HR	18.27	100.00	18.26	31.23
Z-CLAB	Common Building Laborers	2.00	3.41	MH	49.00	100.00	49.00	167.09
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	1.71	MH	49.50	100.00	49.50	84.65

Activity: 312316421800	Excavating, bulk bank measure, 1/2 C.Y. = 30 C.Y./hour, hydraulic excavator, truck mounted, excludin	Quantity: 37.03	Unit: BCY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	3.95	0.00	3.95	3.69	0.00	0.00	0.00	7.63
Total	146.13	0.00	146.13	136.54	0.00	0.00	0.00	282.67

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
7.6335	0.0335	29.8509	227.8678	0.1551	238.8069	0.0042	1,822.9424

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
2.4800	14.9315	0.0670	58.9234	3.9463

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS178 RS Means Crew B12J Prod: US 238.806 Eff: 100.00 Crew Hrs: 1.24 Labor Pcs: 2.00 Equipment Pcs: 1.00

Notes: Excavating, bulk bank measure, 1/2 C.Y. = 30 C.Y./hour, hydraulic excavator, truck mounted, excluding truck loading

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31233060	Excavating, trench or continuous footing, sand and	1.00	37.03	BCY	0.00	107.00	0.00	0.00
8Z5433200350	Gradall, 5/8 C.Y.	1.00	1.24	HR	110.11	100.00	110.11	136.54
Z-CLAB	Common Building Laborers	1.00	1.24	MH	49.00	100.00	49.00	60.76
Z-EQHV	Equipment Operators, Crane or Shovel	1.00	1.24	MH	68.85	100.00	68.85	85.37

Activity: 312323132200	Backfill, trench, 6" to 12" lifts, dozer backfilling, compaction with vibratingroller	Quantity: 13.33	Unit: BCY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.03	0.00	1.03	2.90	0.00	0.00	0.00	3.93
Total	13.67	0.00	13.67	38.70	0.00	0.00	0.00	52.37

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3.9287	0.0113	88.2197	346.5917	0.0189	705.7578	0.0014	2,772.7333
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
0.2300	57.9565	0.0173	59.4348	1.0255			

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS094 RS Means Crew B10C Prod: US 705.8824 Eff: 100.00 Crew Hrs: 0.15 Labor Pcs: 1.50 Equipment Pcs: 2.00

Notes: Backfill, trench, 6" to 12" lifts, dozer backfilling, compaction with vibrating roller

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31234630	Excavating, large volume projects, 200,000 plus B.	1.00	13.33	BCY	0.00	107.00	0.00	0.00
8Z5433203100	Vibratory Roller, Towed, 23 Ton	1.00	0.15	HR	85.20	100.00	85.20	12.78
8Z5433204260	Dozer, 200 H.P.	1.00	0.15	HR	172.80	100.00	172.80	25.92
Z-CLAB	Common Building Laborers	0.50	0.08	MH	49.00	100.00	49.00	3.92
Z-EQMD	Equipment Operators, Medium Equipment	1.00	0.15	MH	65.00	100.00	65.00	9.75

Biditem

1004

Foundation Walls

Takeoff Qty: 273.000 LF

Bid Qty: 273.000 LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	117.16	0.00	117.16	22.87	69.16	0.00	0.00	209.19
Total	31,984.21	0.00	31,984.21	6,243.72	18,879.73	0.00	0.00	57,107.66

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
545.0700	0.5009	1.9966	104.7712	58.6791	58.6791	1.8694

Activity: 031113859060

C.I.P. concrete forms, walls, steel framed plywood, to 8' high, based on 50 uses of purchased forms,

Quantity: 3640.00

Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4.56	0.00	4.56	0.00	1.03	0.00	0.00	5.59
Total	16,597.85	0.00	16,597.85	0.00	3,739.01	0.00	0.00	20,336.86

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
4.5598	0.0133	75.0001	341.9889	6.0667	600.0004	0.0017	3,352.2320
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
291.1900	12.5004	0.0800	57.0001	4.5598			

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS718 RS Means Crew C2 Prod: US 600 Eff: 100.00 Crew Hrs: 48.53 Labor Pcs: 6.00 Equipment Pcs: 0.00

Notes: C.I.P. concrete forms, walls, steel framed plywood, to 8' high, based on 50 uses of purchased forms, 4 uses of bracing lumber, ISFCA

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03112605	C.I.P. concrete forms, walls, steel framed plywood	1.00	3,640.00	SF	0.96	107.00	1.03	3,739.01
Z-CARP	Carpenters	4.00	194.13	MH	58.60	100.00	58.60	11,376.02
Z-CARP-FORO	Carpenters - Foreman	1.00	48.53	MH	58.60	100.00	58.60	2,843.86
Z-CLAB	Common Building Laborers	1.00	48.53	MH	49.00	100.00	49.00	2,377.97

Activity: 032111600700

Reinforcing steel, in place, walls, #3 to #7, A615, grade 60, incl labor for accessories, excl mater

Quantity: 1.50

Unit: TON

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	688.53	0.00	688.53	0.00	1,524.75	0.00	0.00	2,213.29
Total	1,032.80	0.00	1,032.80	0.00	2,287.13	0.00	0.00	3,319.93

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
688.5333	10.6667	0.0938	64.5500	2.0000	0.7500	1.3333	1,659.9650
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
16.0000	0.0938	10.6667	64.5500	688.5333			

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1150 RS Means Crew RODM Prod: US 0.75 Eff: 100.00 Crew Hrs: 16.00 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Reinforcing steel, in place, walls, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03212050	Reinforcing steel, in place, walls, #3 to #7, A615	1.00	1.50	TON	1,425.00	107.00	1,524.75	2,287.13
Z-RODM	Rodmen (Reinforcing)	1.00	16.00	MH	64.55	100.00	64.55	1,032.80

Activity: 032111602000 Reinforcing steel, unload and sort, add to base Quantity: 273.00 Unit: 1.5

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	36.00	0.00	36.00	22.73	0.00	0.00	0.00	58.73
Total	9,828.00	0.00	9,828.00	6,206.14	0.00	0.00	0.00	16,034.14

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
58.7331	0.0800	12.5000	734.1639	2.7300	100.0000	0.0100	5,873.3114
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
152.8800	1.7857	0.5600	64.2857	36.0000			

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS750 RS Means Crew C5 Prod: US 100 Eff: 100.00 Crew Hrs: 21.84 Labor Pcs: 7.00 Equipment Pcs: 1.00

Notes: Reinforcing steel, unload and sort, add to base

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03212070	Reinforcing steel, unload and sort, add to base	1.00	273.00	TON	0.00	107.00	0.00	0.00
8Z5433602500	Hyd. Crane, 20 ton	1.00	21.84	HR	284.16	100.00	284.16	6,206.14
Z-EQHV	Equipment Operators, Crane or Shovel	1.00	21.84	MH	68.85	100.00	68.85	1,503.68
Z-EQOL	Equipment Operators, Oilers	1.00	21.84	MH	58.40	100.00	58.40	1,275.46
Z-RODM	Rodmen (Reinforcing)	4.00	87.36	MH	64.55	100.00	64.55	5,639.09
Z-RODM-FORO	Rodmen (Reinforcing) - Foreman	1.00	21.84	MH	64.55	100.00	64.55	1,409.77

Activity: 033113350150 Structural concrete, ready mix, heavyweight, 3000 psi, includes local aggregate, sand, Portland ceme Quantity: 66.50 Unit: CY

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Notes: Structural concrete, ready mix, heavyweight, 3000 psi, includes local aggregate, sand, Portland cement (Type I) and water, delivC.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03311085	Structural concrete, ready mix, heavyweight, 3000	1.00	66.50	CY	179.00	107.00	191.53	12,736.75

Activity: 033113705300 Structural concrete, placing, walls, direct chute, 15" thick, includes leveling(strike off) & consol Quantity: 66.50 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	22.90	0.00	22.90	0.57	0.00	0.00	0.00	23.46
Total	1,522.56	0.00	1,522.56	37.58	0.00	0.00	0.00	1,560.14

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
23.4608	0.0762	13.1291	308.0176	0.6331	105.0325	0.0095	2,464.1409

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
30.4000	2.1875	0.4571	50.0842	22.8956

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS752

RS Means Crew C6

Prod: US

105.0328

Eff: 100.00

Crew Hrs: 5.07

Labor Pcs: 6.00

Equipment Pcs: 2.00

Notes: Structural concrete, placing, walls, direct chute, 15" thick, includes leveling(strike off) & consolidation, excludes material

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03311575	Structural concrete, placing, walls, direct chute,	1.00	66.50	CY	0.00	107.00	0.00	0.00
8Z5433103000	Gas Engine Vibrator	2.00	10.13	HR	3.71	100.00	3.71	37.58
Z-CEFI	Cement Finishers	1.00	5.07	MH	55.00	100.00	55.00	278.85
Z-CLAB	Common Building Laborers	4.00	20.26	MH	49.00	100.00	49.00	992.74
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	5.07	MH	49.50	100.00	49.50	250.97

Activity: 033529600020

Concrete finishing, walls, includes breaking ties and patching voids

Quantity: 3640.00

Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.83	0.00	0.83	0.00	0.03	0.00	0.00	0.86
Total	3,003.00	0.00	3,003.00	0.00	116.84	0.00	0.00	3,119.84

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.8250	0.0150	66.6667	55.0000	6.8250	533.3333	0.0019	457.1194

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
54.6000	66.6667	0.0150	55.0000	0.8250

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS1195

RS Means Crew CEFI

Prod: US

533.3333

Eff: 100.00

Crew Hrs: 54.60

Labor Pcs: 1.00

Equipment Pcs: 0.00

Notes: Concrete finishing, walls, includes breaking ties and patching voids

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03351175	Concrete finishing, walls, includes breaking ties	1.00	3,640.00	SF	0.03	107.00	0.03	116.84
Z-CEFI	Cement Finishers	1.00	54.60	MH	55.00	100.00	55.00	3,003.00

Biditem

Slab on grade, 4" thick

1005

Takeoff Qty: 49.000 SF

Bid Qty: 49.000 SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4.27	0.00	4.27	0.36	4.32	0.00	0.00	8.96
Total	209.20	0.00	209.20	17.79	211.92	0.00	0.00	438.91

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
3.7000	13.2432	0.0755	118.6243	56.5405	56.5405	27.5777

Activity: 031113653000

C.I.P. concrete forms, slab on grade, edge, wood, to 6" high, 4 use, includes erecting, bracing, str

Quantity: 28.66

Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.98	0.00	2.98	0.00	0.89	0.00	0.00	3.87
Total	85.42	0.00	85.42	0.00	25.45	0.00	0.00	110.87

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.9805	0.0133	75.3814	224.6712	0.0475	603.0510	0.0017	2,332.8774

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1.5200	18.8553	0.0530	56.1974	2.9805

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS660 RS Means Crew C1 Prod: US 603.051 Eff: 100.00 Crew Hrs: 0.38 Labor Pcs: 4.00 Equipment Pcs: 0.00

Notes: C.I.P. concrete forms, slab on grade, edge, wood, to 6" high, 4 use, includes erecting, bracing, stripping and cleaning

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03112185	C.I.P. concrete forms, slab on grade, edge, wood,	1.00	28.66	LF	0.83	107.00	0.89	25.45
Z-CARP	Carpenters	3.00	1.14	MH	58.60	100.00	58.60	66.80
Z-CLAB	Common Building Laborers	1.00	0.38	MH	49.00	100.00	49.00	18.62

Activity: 031516302000 Expansion joint, premolded, bituminous fiber, 1/2" x 6" (Unreviewed) Quantity: 14.25 Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.23	0.00	1.23	0.00	0.48	0.00	0.00	1.72
Total	17.58	0.00	17.58	0.00	6.86	0.00	0.00	24.44

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1.2337	0.0210	47.6111	58.7371	0.0374	380.8887	0.0026	653.2576

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.3000	47.5000	0.0211	58.6000	1.2337

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1146 RS Means Crew CARP Prod: US 380.8887 Eff: 100.00 Crew Hrs: 0.30 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Expansion joint, premolded, bituminous fiber, 1/2" x 6"

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03152440	Expansion joint, premolded, bituminous fiber, 1/2"	1.00	14.25	LF	0.45	107.00	0.48	6.86
Z-CARP	Carpenters	1.00	0.30	MH	58.60	100.00	58.60	17.58

Activity: 032111600602 Reinforcing steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, ex (Unreviewed) Quantity: 66.00 Unit: LB

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.52	0.00	0.52	0.00	0.76	0.00	0.00	1.28
Total	34.21	0.00	34.21	0.00	50.14	0.00	0.00	84.35

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.5183	0.0080	124.9763	64.7794	0.0660	999.8106	0.0010	1,277.7883

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.5300	124.5283	0.0080	64.5472	0.5183

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1150 RS Means Crew RODM Prod: US 999.8106 Eff: 100.00 Crew Hrs: 0.53 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Reinforcing steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03212045	Reinforcing steel, in place, slab on grade, #3 to	1.00	66.00	LB	0.71	107.00	0.76	50.14
Z-RODM	Rodmen (Reinforcing)	1.00	0.53	MH	64.55	100.00	64.55	34.21

Activity: 033113350300 Structural concrete, ready mix, heavyweight, 4000 psi, includes local aggregate, sand, Portland ceme Quantity: .60 Unit: CY

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Notes: Structural concrete, ready mix, heavyweight, 4000 psi, includes local aggregate, sand, Portland cement (Type I) and water, delivC.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
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2Z03311095	Structural concrete, ready mix, heavyweight, 4000	1.00	0.60	CY	183.00	107.00	195.82	117.49
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Activity: 033113704300	Structural concrete, placing, slab on grade, direct chute, up to 6" thick, includes leveling (strike)	Quantity: .60	Unit: CY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	20.85	0.00	20.85	0.55	0.00	0.00	0.00	21.40
Total	12.51	0.00	12.51	0.33	0.00	0.00	0.00	12.84

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
21.4000	0.0727	13.7615	294.4954	0.0055	110.0917	0.0091	2,355.9633

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.2500	2.4000	0.4167	50.0400	20.8500

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS752 RS Means Crew C6 Prod: US 110.0917 Eff: 100.00 Crew Hrs: 0.04 Labor Pcs: 6.00 Equipment Pcs: 2.00

Notes: Structural concrete, placing, slab on grade, direct chute, up to 6" thick, includes leveling (strike off) & consolidation, excluC.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03311515	Structural concrete, placing, slab on grade, direc	1.00	0.60	CY	0.00	107.00	0.00	0.00
8Z5433103000	Gas Engine Vibrator	2.00	0.09	HR	3.71	100.00	3.67	0.33
Z-CEFI	Cement Finishers	1.00	0.04	MH	55.00	100.00	55.00	2.20
Z-CLAB	Common Building Laborers	4.00	0.17	MH	49.00	100.00	49.00	8.33
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	0.04	MH	49.50	100.00	49.50	1.98

Activity: 033513300250	Concrete finishing, specified Random Access Floors ACI Classes 1, 2, 3 & 4, forComposite Overall Flo	Quantity: 49.00	Unit: SF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.75	0.00	0.75	0.05	0.00	0.00	0.00	0.80
Total	36.57	0.00	36.57	2.46	0.00	0.00	0.00	39.03

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.7965	0.0047	214.2545	170.6603	0.0286	1,714.0359	0.0006	1,365.2820

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.6900	71.0145	0.0141	53.0000	0.7463

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS666 RS Means Crew C10C Prod: US 1714.2857 Eff: 100.00 Crew Hrs: 0.23 Labor Pcs: 3.00 Equipment Pcs: 1.00

Notes: Concrete finishing, specified Random Access Floors ACI Classes 1, 2, 3 & 4, forComposite Overall Floor Flatness & Levelness to FS.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03351020	Concrete finishing, specified Random Access Floors	1.00	49.00	SF	0.00	107.00	0.00	0.00
8Z5433101400	Trowel, 48" Walk-Behind	1.00	0.23	HR	10.70	100.00	10.70	2.46
Z-CEFI	Cement Finishers	2.00	0.46	MH	55.00	100.00	55.00	25.30
Z-CLAB	Common Building Laborers	1.00	0.23	MH	49.00	100.00	49.00	11.27

Activity: 033923130300	Concrete surface treatment, curing, sprayed membrane compound	Quantity: .49	Unit: CSF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	8.00	0.00	8.00	0.00	17.12	0.00	0.00	25.12
Total	3.92	0.00	3.92	0.00	8.39	0.00	0.00	12.31

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
8.0000	0.1680	5.9538	47.6306	0.0103	47.6306	0.0210	1,196.5978

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.0800	6.1250	0.1633	49.0000	8.0000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1140 RS Means Crew CLAB Prod: US 47.6306 Eff: 100.00 Crew Hrs: 0.08 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Concrete surface treatment, curing, sprayed membrane compound

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03391015	Concrete surface treatment, curing, sprayed membra	1.00	0.49	CSF	16.00	107.00	17.12	8.39
Z-CLAB	Common Building Laborers	1.00	0.08	MH	49.00	100.00	49.00	3.92

Activity: 072613100900 Vapor retarders, building paper, polyethylene vapor barrier, standard, 6 mil (.006" thick), 9' x 400' Quantity: .49 Unit: SQ

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	13.16	0.00	13.16	0.00	7.33	0.00	0.00	20.49
Total	6.45	0.00	6.45	0.00	3.59	0.00	0.00	10.04

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
13.1633	0.2159	4.6314	60.9641	0.0132	37.0510	0.0270	759.1682

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.1100	4.4545	0.2245	58.6364	13.1633

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1146 RS Means Crew CARP Prod: US 37.051 Eff: 100.00 Crew Hrs: 0.11 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Vapor retarders, building paper, polyethylene vapor barrier, standard, 6 mil (.006" thick), 9' x 400' roll

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z07261030	Vapor retarders, building paper, polyethylene vapo	1.00	0.49	SQ	6.85	107.00	7.33	3.59
Z-CARP	Carpenters	1.00	0.11	MH	58.60	100.00	58.64	6.45

Activity: 312216100012 Fine grading, finish grading, small area, to be paved with grader Quantity: 5.44 Unit: SY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.31	0.00	2.31	2.76	0.00	0.00	0.00	5.06
Total	12.54	0.00	12.54	15.00	0.00	0.00	0.00	27.54

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
5.0625	0.0200	50.0000	253.1250	0.0136	400.0000	0.0025	2,025.0000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.2200	24.7273	0.0404	57.0000	2.3051

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS150 RS Means Crew B11L Prod: US 400 Eff: 100.00 Crew Hrs: 0.11 Labor Pcs: 2.00 Equipment Pcs: 1.00

Notes: Fine grading, finish grading, small area, to be paved with grader

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31221085	Fine grading, finish grading, small area, to be pa	1.00	5.44	SY	0.00	107.00	0.00	0.00
8Z5433201910	Grader, 30,000 Lbs.	1.00	0.11	HR	136.40	100.00	136.36	15.00
Z-CLAB	Common Building Laborers	1.00	0.11	MH	49.00	100.00	49.00	5.39
Z-EQMD	Equipment Operators, Medium Equipment	1.00	0.11	MH	65.00	100.00	65.00	7.15

Biditem

Slab on grade, 6" thick

1006

Takeoff Qty: 132.000 SF

Bid Qty: 132.000 SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	3.97	0.00	3.97	0.36	5.40	0.00	0.00	9.73
Total	524.55	0.00	524.55	47.50	712.47	0.00	0.00	1,284.52

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
9.3300	14.1479	0.0707	137.6763	56.2219	56.2219	30.0416

Activity: 031113653000C.I.P. concrete forms, slab on grade, edge, wood, to 6" high, 4 use, includes erecting, bracing, str(Unreviewed)Quantity: 63.00Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.99	0.00	2.99	0.00	0.89	0.00	0.00	3.88
Total	188.25	0.00	188.25	0.00	55.95	0.00	0.00	244.20

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.9881	0.0133	75.3769	225.2333	0.1045	603.0151	0.0017	2,337.4013

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
3.3500	18.8060	0.0532	56.1940	2.9881

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS660RS Means Crew C1Prod: US 603.0151Eff: 100.00Crew Hrs: 0.84Labor Pcs: 4.00Equipment Pcs: 0.00

Notes: C.I.P. concrete forms, slab on grade, edge, wood, to 6" high, 4 use, includes erecting, bracing, stripping and cleaning

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03112185	C.I.P. concrete forms, slab on grade, edge, wood,	1.00	63.00	LF	0.83	107.00	0.89	55.95
Z-CARP	Carpenters	3.00	2.51	MH	58.60	100.00	58.60	147.09
Z-CLAB	Common Building Laborers	1.00	0.84	MH	49.00	100.00	49.00	41.16

Activity: 031516302000Expansion joint, premolded, bituminous fiber, 1/2" x 6"(Unreviewed)Quantity: 26.50Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.24	0.00	1.24	0.00	0.48	0.00	0.00	1.72
Total	32.82	0.00	32.82	0.00	12.76	0.00	0.00	45.58

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1.2385	0.0210	47.6105	58.9651	0.0696	380.8839	0.0026	655.1204

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.5600	47.3214	0.0211	58.6071	1.2385

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS1146RS Means Crew CARPProd: US 380.8839Eff: 100.00Crew Hrs: 0.56Labor Pcs: 1.00Equipment Pcs: 0.00

Notes: Expansion joint, premolded, bituminous fiber, 1/2" x 6"

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03152440	Expansion joint, premolded, bituminous fiber, 1/2"	1.00	26.50	LF	0.45	107.00	0.48	12.76
Z-CARP	Carpenters	1.00	0.56	MH	58.60	100.00	58.61	32.82

Activity: 032111600602Reinforcing steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, exQuantity: 176.00Unit: LB

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.52	0.00	0.52	0.00	0.76	0.00	0.00	1.28
Total	91.02	0.00	91.02	0.00	133.71	0.00	0.00	224.73

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
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0.5172	0.0080	125.0000	64.6449	0.1760	1,000.0000	0.0010	1,276.8750
Manhours	Unit/MH		MH/Unit	Total Labor/MH		Base Labor/Unit	
1.4100	124.8227		0.0080	64.5532		0.5172	

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1150 RS Means Crew RODM Prod: US 1000 Eff: 100.00 Crew Hrs: 1.41 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Reinforcing steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03212045	Reinforcing steel, in place, slab on grade, #3 to	1.00	176.00	LB	0.71	107.00	0.76	133.71
Z-RODM	Rodmen (Reinforcing)	1.00	1.41	MH	64.55	100.00	64.55	91.02

Activity: 033113350300	Structural concrete, ready mix, heavyweight, 4000 psi, includes local aggregate, sand, Portland ceme	(Unreviewed)	Quantity: 2.44	Unit: CY
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Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Notes: Structural concrete, ready mix, heavyweight, 4000 psi, includes local aggregate, sand, Portland cement (Type I) and water, delivC.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03311095	Structural concrete, ready mix, heavyweight, 4000	1.00	2.44	CY	183.00	107.00	195.81	477.78

Activity: 033113704300	Structural concrete, placing, slab on grade, direct chute, up to 6" thick, includes leveling (strike	(Unreviewed)	Quantity: 2.44	Unit: CY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	21.97	0.00	21.97	0.53	0.00	0.00	0.00	22.50
Total	53.60	0.00	53.60	1.30	0.00	0.00	0.00	54.90

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
22.5000	0.0727	13.7620	309.6447	0.0222	110.0959	0.0091	2,477.1574

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1.0700	2.2804	0.4385	50.0935	21.9672

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS752 RS Means Crew C6 Prod: US 110.0959 Eff: 100.00 Crew Hrs: 0.18 Labor Pcs: 6.00 Equipment Pcs: 2.00

Notes: Structural concrete, placing, slab on grade, direct chute, up to 6" thick, includes leveling (strike off) & consolidation, excluC.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03311515	Structural concrete, placing, slab on grade, direc	1.00	2.44	CY	0.00	107.00	0.00	0.00
8Z5433103000	Gas Engine Vibrator	2.00	0.35	HR	3.71	100.00	3.71	1.30
Z-CEFI	Cement Finishers	1.00	0.18	MH	55.00	100.00	55.00	9.90
Z-CLAB	Common Building Laborers	4.00	0.71	MH	49.00	100.00	49.00	34.79
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	0.18	MH	49.50	100.00	49.50	8.91

Activity: 033513300250	Concrete finishing, specified Random Access Floors ACI Classes 1, 2, 3 & 4, forComposite Overall Flo	(Unreviewed)	Quantity: 132.00	Unit: SF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.74	0.00	0.74	0.05	0.00	0.00	0.00	0.79
Total	98.03	0.00	98.03	6.64	0.00	0.00	0.00	104.67

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.7930	0.0047	214.2509	169.8913	0.0770	1,714.0075	0.0006	1,359.1300

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
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1.8500	71.3514	0.0140	52.9892	0.7427
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Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS666 RS Means Crew C10C Prod: US 1714.0075 Eff: 100.00 Crew Hrs: 0.62 Labor Pcs: 3.00 Equipment Pcs: 1.00

Notes: Concrete finishing, specified Random Access Floors ACI Classes 1, 2, 3 & 4, for Composite Overall Floor Flatness & Levelness to FS.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03351020	Concrete finishing, specified Random Access Floors	1.00	132.00	SF	0.00	107.00	0.00	0.00
8Z5433101400	Trowel, 48" Walk-Behind	1.00	0.62	HR	10.70	100.00	10.71	6.64
Z-CEFI	Cement Finishers	2.00	1.23	MH	55.00	100.00	55.00	67.65
Z-CLAB	Common Building Laborers	1.00	0.62	MH	49.00	100.00	49.00	30.38

Activity: 033923130300 Concrete surface treatment, curing, sprayed membrane compound (Unreviewed) Quantity: 1.32 Unit: CSF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	8.17	0.00	8.17	0.00	17.12	0.00	0.00	25.29
Total	10.78	0.00	10.78	0.00	22.60	0.00	0.00	33.38

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
8.1667	0.1680	5.9540	48.6243	0.0277	47.6319	0.0210	1,204.5106

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.2200	6.0000	0.1667	49.0000	8.1667

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1140 RS Means Crew CLAB Prod: US 47.6319 Eff: 100.00 Crew Hrs: 0.22 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Concrete surface treatment, curing, sprayed membrane compound

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03391015	Concrete surface treatment, curing, sprayed membra	1.00	1.32	CSF	16.00	107.00	17.12	22.60
Z-CLAB	Common Building Laborers	1.00	0.22	MH	49.00	100.00	49.00	10.78

Activity: 072613100900 Vapor retarders, building paper, polyethylene vapor barrier, standard, 6 mil (.006" thick), 9' x 400' (Unreviewed) Quantity: 1.32 Unit: SQ

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	12.87	0.00	12.87	0.00	7.33	0.00	0.00	20.20
Total	16.99	0.00	16.99	0.00	9.67	0.00	0.00	26.66

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
12.8712	0.2159	4.6316	59.6140	0.0356	37.0526	0.0270	748.3509

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.2900	4.5517	0.2197	58.5862	12.8712

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1146 RS Means Crew CARP Prod: US 37.0526 Eff: 100.00 Crew Hrs: 0.29 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Vapor retarders, building paper, polyethylene vapor barrier, standard, 6 mil (.006" thick), 9' x 400' roll

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z07261030	Vapor retarders, building paper, polyethylene vapo	1.00	1.32	SQ	6.85	107.00	7.33	9.67
Z-CARP	Carpenters	1.00	0.29	MH	58.60	100.00	58.59	16.99

Activity: 312216100012 Fine grading, finish grading, small area, to be paved with grader (Unreviewed) Quantity: 14.67 Unit: SY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.25	0.00	2.25	2.70	0.00	0.00	0.00	4.95
Total	33.06	0.00	33.06	39.56	0.00	0.00	0.00	72.62

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
4.9502	0.0200	50.0000	247.5119	0.0367	400.0000	0.0025	1,980.0954
Manhours		Unit/MH	MH/Unit	Total Labor/MH		Base Labor/Unit	
0.5800		25.2931	0.0395	57.0000		2.2536	

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS150 RS Means Crew B11L Prod: US 400 Eff: 100.00 Crew Hrs: 0.29 Labor Pcs: 2.00 Equipment Pcs: 1.00

Notes: Fine grading, finish grading, small area, to be paved with grader

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31221085	Fine grading, finish grading, small area, to be pa	1.00	14.67	SY	0.00	107.00	0.00	0.00
8Z5433201910	Grader, 30,000 Lbs.	1.00	0.29	HR	136.40	100.00	136.41	39.56
Z-CLAB	Common Building Laborers	1.00	0.29	MH	49.00	100.00	49.00	14.21
Z-EQMD	Equipment Operators, Medium Equipment	1.00	0.29	MH	65.00	100.00	65.00	18.85

Biditem

1007

Slab on grade, 8" thick

Takeoff Qty: 1,831.000 SF

Bid Qty: 1,831.000 SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	3.31	0.00	3.31	0.36	6.49	0.00	0.00	10.16
Total	6,057.40	0.00	6,057.40	662.79	11,884.09	0.00	0.00	18,604.28

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
107.4500	17.0405	0.0587	173.1436	56.3741	56.3741	31.8674

Activity: 031113653050

C.I.P. concrete forms, slab on grade, edge, wood, 7" to 12" high, 4 use, includes erecting, bracing,

Quantity: 322.00

Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4.16	0.00	4.16	0.00	1.55	0.00	0.00	5.71
Total	1,339.22	0.00	1,339.22	0.00	499.58	0.00	0.00	1,838.80

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
4.1591	0.0185	54.0541	224.8145	0.7446	432.4324	0.0023	2,469.4309
Manhours		Unit/MH	MH/Unit	Total Labor/MH		Base Labor/Unit	
23.8300		13.5124	0.0740	56.1989		4.1591	

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS660 RS Means Crew C1 Prod: US 432.4324 Eff: 100.00 Crew Hrs: 5.96 Labor Pcs: 4.00 Equipment Pcs: 0.00

Notes: C.I.P. concrete forms, slab on grade, edge, wood, 7" to 12" high, 4 use, includes erecting, bracing, stripping and cleaning

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03112190	C.I.P. concrete forms, slab on grade, edge, wood,	1.00	322.00	SF	1.45	107.00	1.55	499.58
Z-CARP	Carpenters	3.00	17.87	MH	58.60	100.00	58.60	1,047.18
Z-CLAB	Common Building Laborers	1.00	5.96	MH	49.00	100.00	49.00	292.04

Activity: 031516302000

Expansion joint, premolded, bituminous fiber, 1/2" x 6"

Quantity: 483.00

Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.23	0.00	1.23	0.00	0.48	0.00	0.00	1.71
Total	594.20	0.00	594.20	0.00	232.56	0.00	0.00	826.76

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1.2302	0.0210	47.6190	58.5823	1.2679	380.9524	0.0026	652.0832
Manhours		Unit/MH	MH/Unit	Total Labor/MH		Base Labor/Unit	

10.1400	47.6331	0.0210	58.5996	1.2302
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Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1146 RS Means Crew CARP Prod: US 380.9524 Eff: 100.00 Crew Hrs: 10.14 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Expansion joint, premolded, bituminous fiber, 1/2" x 6"

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03152440	Expansion joint, premolded, bituminous fiber, 1/2"	1.00	483.00	LF	0.45	107.00	0.48	232.56
Z-CARP	Carpenters	1.00	10.14	MH	58.60	100.00	58.60	594.20

Activity: 032111600602	Reinforcing steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, ex	(Unreviewed)	Quantity: 2440.00	Unit: LB
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.52	0.00	0.52	0.00	0.76	0.00	0.00	1.28
Total	1,260.02	0.00	1,260.02	0.00	1,853.67	0.00	0.00	3,113.69

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.5164	0.0080	124.9994	64.5499	2.4400	999.9949	0.0010	1,276.0959

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
19.5200	125.0000	0.0080	64.5502	0.5164

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1150 RS Means Crew RODM Prod: US 999.9949 Eff: 100.00 Crew Hrs: 19.52 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Reinforcing steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03212045	Reinforcing steel, in place, slab on grade, #3 to	1.00	2,440.00	LB	0.71	107.00	0.76	1,853.67
Z-RODM	Rodmen (Reinforcing)	1.00	19.52	MH	64.55	100.00	64.55	1,260.02

Activity: 033113350300	Structural concrete, ready mix, heavyweight, 4000 psi, includes local aggregate, sand, Portland ceme	Quantity: 45.20	Unit: CY
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Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Notes: Structural concrete, ready mix, heavyweight, 4000 psi, includes local aggregate, sand, Portland cement (Type I) and water, delivC.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03311095	Structural concrete, ready mix, heavyweight, 4000	1.00	45.20	CY	183.00	107.00	195.81	8,850.61

Activity: 033113704600	Structural concrete, placing, slab on grade, direct chute, over 6" thick, includes leveling (strike	Quantity: 45.20	Unit: CY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	14.57	0.00	14.57	0.36	0.00	0.00	0.00	14.93
Total	658.59	0.00	658.59	16.25	0.00	0.00	0.00	674.84

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
14.9301	0.0485	20.6186	307.8369	0.2740	164.9485	0.0061	2,462.6950

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
13.1500	3.4373	0.2909	50.0829	14.5706

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS752 RS Means Crew C6 Prod: US 164.9485 Eff: 100.00 Crew Hrs: 2.19 Labor Pcs: 6.00 Equipment Pcs: 2.00

Notes: Structural concrete, placing, slab on grade, direct chute, over 6" thick, includes leveling (strike off) & consolidation, excludC.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03311530	Structural concrete, placing, slab on grade, direc	1.00	45.20	CY	0.00	107.00	0.00	0.00
8Z5433103000	Gas Engine Vibrator	2.00	4.38	HR	3.71	100.00	3.71	16.25
Z-CEFI	Cement Finishers	1.00	2.19	MH	55.00	100.00	55.00	120.45
Z-CLAB	Common Building Laborers	4.00	8.77	MH	49.00	100.00	49.00	429.73
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	2.19	MH	49.50	100.00	49.50	108.41

Activity: 033513300250	Concrete finishing, specified Random Access Floors ACI Classes 1, 2, 3 & 4, forComposite Overall Flo	Quantity: 1831.00	Unit: SF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.74	0.00	0.74	0.05	0.00	0.00	0.00	0.79
Total	1,358.41	0.00	1,358.41	91.40	0.00	0.00	0.00	1,449.81

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.7918	0.0047	214.2849	169.6736	1.0681	1,714.2790	0.0006	1,357.3888

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
25.6300	71.4397	0.0140	53.0008	0.7419

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS666 RS Means Crew C10C Prod: US 1714.2857 Eff: 100.00 Crew Hrs: 8.54 Labor Pcs: 3.00 Equipment Pcs: 1.00

Notes: Concrete finishing, specified Random Access Floors ACI Classes 1, 2, 3 & 4, forComposite Overall Floor Flatness & Levelness to F.S.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03351020	Concrete finishing, specified Random Access Floors	1.00	1,831.00	SF	0.00	107.00	0.00	0.00
8Z5433101400	Trowel, 48" Walk-Behind	1.00	8.54	HR	10.70	100.00	10.70	91.40
Z-CEFI	Cement Finishers	2.00	17.09	MH	55.00	100.00	55.00	939.95
Z-CLAB	Common Building Laborers	1.00	8.54	MH	49.00	100.00	49.00	418.46

Activity: 033923130300	Concrete surface treatment, curing, sprayed membrane compound	Quantity: 18.31	Unit: CSF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	8.24	0.00	8.24	0.00	17.12	0.00	0.00	25.36
Total	150.92	0.00	150.92	0.00	313.47	0.00	0.00	464.39

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
8.2425	0.1680	5.9523	49.0621	0.3845	47.6187	0.0210	1,207.7371

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
3.0800	5.9448	0.1682	49.0000	8.2425

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1140 RS Means Crew CLAB Prod: US 47.619 Eff: 100.00 Crew Hrs: 3.08 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Concrete surface treatment, curing, sprayed membrane compound

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03391015	Concrete surface treatment, curing, sprayed membra	1.00	18.31	CSF	16.00	107.00	17.12	313.47
Z-CLAB	Common Building Laborers	1.00	3.08	MH	49.00	100.00	49.00	150.92

Activity: 072613100900	Vapor retarders, building paper, polyethylene vapor barrier, standard, 6 mil (.006" thick), 9' x 400	Quantity: 18.31	Unit: SQ
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	12.67	0.00	12.67	0.00	7.33	0.00	0.00	20.00
Total	232.06	0.00	232.06	0.00	134.20	0.00	0.00	366.26

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
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12.6739	0.2160	4.6296	58.6751	0.4944	37.0367	0.0270	740.8546
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
3.9600	4.6237	0.2163	58.6010	12.6739			

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1146 RS Means Crew CARP Prod: US 37.037 Eff: 100.00 Crew Hrs: 3.96 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Vapor retarders, building paper, polyethylene vapor barrier, standard, 6 mil (.006" thick), 9' x 400' roll

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z07261030	Vapor retarders, building paper, polyethylene vapo	1.00	18.31	SQ	6.85	107.00	7.33	134.20
Z-CARP	Carpenters	1.00	3.96	MH	58.60	100.00	58.60	232.06

Activity: 312216100012 Fine grading, finish grading, small area, to be paved with grader Quantity: 203.44 Unit: SY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.28	0.00	2.28	2.73	0.00	0.00	0.00	5.01
Total	463.98	0.00	463.98	555.14	0.00	0.00	0.00	1,019.12

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
5.0094	0.0200	50.0000	250.4719	0.5086	400.0000	0.0025	2,003.7751

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
8.1400	24.9926	0.0400	57.0000	2.2807

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS150 RS Means Crew B11L Prod: US 400 Eff: 100.00 Crew Hrs: 4.07 Labor Pcs: 2.00 Equipment Pcs: 1.00

Notes: Fine grading, finish grading, small area, to be paved with grader

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31221085	Fine grading, finish grading, small area, to be pa	1.00	203.44	SY	0.00	107.00	0.00	0.00
8Z5433201910	Grader, 30,000 Lbs.	1.00	4.07	HR	136.40	100.00	136.40	555.14
Z-CLAB	Common Building Laborers	1.00	4.07	MH	49.00	100.00	49.00	199.43
Z-EQMD	Equipment Operators, Medium Equipment	1.00	4.07	MH	65.00	100.00	65.00	264.55

Biditem

Slab on grade, 18" thick

1008

Takeoff Qty: 170.000 SF

Bid Qty: 170.000 SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	5.82	0.00	5.82	0.37	14.05	0.00	0.00	20.24
Total	988.77	0.00	988.77	63.70	2,389.01	0.00	0.00	3,441.48

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
17.4500	9.7421	0.1026	197.2195	56.6630	56.6630	19.7879

Activity: 031113653050 C.I.P. concrete forms, slab on grade, edge, wood, 7" to 12" high, 4 use, includes erecting, bracing, (Unreviewed) Quantity: 82.50 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4.16	0.00	4.16	0.00	1.55	0.00	0.00	5.71
Total	343.36	0.00	343.36	0.00	128.00	0.00	0.00	471.36

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
4.1619	0.0185	54.0487	224.9476	0.1908	432.3899	0.0023	2,470.4403

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
6.1100	13.5025	0.0741	56.1964	4.1619

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS660RS Means Crew C1Prod: US 432.3899Eff: 100.00Crew Hrs: 1.53Labor Pcs: 4.00Equipment Pcs: 0.00

Notes: C.I.P. concrete forms, slab on grade, edge, wood, 7" to 12" high, 4 use, includes erecting, bracing, stripping and cleaning

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03112190	C.I.P. concrete forms, slab on grade, edge, wood,	1.00	82.50	SF	1.45	107.00	1.55	128.00
Z-CARP	Carpenters	3.00	4.58	MH	58.60	100.00	58.60	268.39
Z-CLAB	Common Building Laborers	1.00	1.53	MH	49.00	100.00	49.00	74.97

Activity: 031516302000Expansion joint, premolded, bituminous fiber, 1/2" x 6"(Unreviewed)Quantity: 55.00Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.24	0.00	1.24	0.00	0.48	0.00	0.00	1.72
Total	67.98	0.00	67.98	0.00	26.48	0.00	0.00	94.46

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1.2360	0.0210	47.6190	58.8571	0.1444	380.9524	0.0026	654.2684

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1.1600	47.4138	0.0211	58.6034	1.2360

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS1146RS Means Crew CARPProd: US 380.9524Eff: 100.00Crew Hrs: 1.16Labor Pcs: 1.00Equipment Pcs: 0.00

Notes: Expansion joint, premolded, bituminous fiber, 1/2" x 6"

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03152440	Expansion joint, premolded, bituminous fiber, 1/2"	1.00	55.00	LF	0.45	107.00	0.48	26.48
Z-CARP	Carpenters	1.00	1.16	MH	58.60	100.00	58.60	67.98

Activity: 032111600602Reinforcing steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, ex(Unreviewed)Quantity: 453.50Unit: LB

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.52	0.00	0.52	0.00	0.76	0.00	0.00	1.28
Total	234.32	0.00	234.32	0.00	344.52	0.00	0.00	578.84

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.5167	0.0080	125.0000	64.5865	0.4535	1,000.0000	0.0010	1,276.3837

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
3.6300	124.9311	0.0080	64.5510	0.5167

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS1150RS Means Crew RODMProd: US 1000Eff: 100.00Crew Hrs: 3.63Labor Pcs: 1.00Equipment Pcs: 0.00

Notes: Reinforcing steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03212045	Reinforcing steel, in place, slab on grade, #3 to	1.00	453.50	LB	0.71	107.00	0.76	344.52
Z-RODM	Rodmen (Reinforcing)	1.00	3.63	MH	64.55	100.00	64.55	234.32

Activity: 033113350300Structural concrete, ready mix, heavyweight, 4000 psi, includes local aggregate, sand, Portland ceme(Unreviewed)Quantity: 9.44Unit: CY

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Notes: Structural concrete, ready mix, heavyweight, 4000 psi, includes local aggregate, sand, Portland cement (Type I) and water, delivC.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
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2Z03311095	Structural concrete, ready mix, heavyweight, 4000	1.00	9.44	CY	183.00	107.00	195.81	1,848.45
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Activity:	033113704600	Structural concrete, placing, slab on grade, direct chute, over 6" thick, includes leveling (strike)	(Unreviewed)	Quantity: 9.44	Unit: CY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	14.59	0.00	14.59	0.36	0.00	0.00	0.00	14.95
Total	137.74	0.00	137.74	3.41	0.00	0.00	0.00	141.15

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
14.9523	0.0485	20.6204	308.3224	0.0572	164.9629	0.0061	2,466.5793

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
2.7500	3.4327	0.2913	50.0873	14.5911

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS752 RS Means Crew C6 Prod: US 164.9629 Eff: 100.00 Crew Hrs: 0.46 Labor Pcs: 6.00 Equipment Pcs: 2.00

Notes: Structural concrete, placing, slab on grade, direct chute, over 6" thick, includes leveling (strike off) & consolidation, excludC.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03311530	Structural concrete, placing, slab on grade, direc	1.00	9.44	CY	0.00	107.00	0.00	0.00
8Z5433103000	Gas Engine Vibrator	2.00	0.92	HR	3.71	100.00	3.71	3.41
Z-CEFI	Cement Finishers	1.00	0.46	MH	55.00	100.00	55.00	25.30
Z-CLAB	Common Building Laborers	4.00	1.83	MH	49.00	100.00	49.00	89.67
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	0.46	MH	49.50	100.00	49.50	22.77

Activity:	033513300250	Concrete finishing, specified Random Access Floors ACI Classes 1, 2, 3 & 4, forComposite Overall Flo	(Unreviewed)	Quantity: 170.00	Unit: SF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.74	0.00	0.74	0.05	0.00	0.00	0.00	0.79
Total	126.16	0.00	126.16	8.46	0.00	0.00	0.00	134.62

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.7919	0.0047	214.2947	169.6962	0.0992	1,714.3577	0.0006	1,357.5696

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
2.3800	71.4286	0.0140	53.0084	0.7421

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS666 RS Means Crew C10C Prod: US 1714.3577 Eff: 100.00 Crew Hrs: 0.79 Labor Pcs: 3.00 Equipment Pcs: 1.00

Notes: Concrete finishing, specified Random Access Floors ACI Classes 1, 2, 3 & 4, forComposite Overall Floor Flatness & Levelness to FS.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03351020	Concrete finishing, specified Random Access Floors	1.00	170.00	SF	0.00	107.00	0.00	0.00
8Z5433101400	Trowel, 48" Walk-Behind	1.00	0.79	HR	10.70	100.00	10.71	8.46
Z-CEFI	Cement Finishers	2.00	1.59	MH	55.00	100.00	55.00	87.45
Z-CLAB	Common Building Laborers	1.00	0.79	MH	49.00	100.00	49.00	38.71

Activity:	033923130300	Concrete surface treatment, curing, sprayed membrane compound	(Unreviewed)	Quantity: 1.70	Unit: CSF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	8.36	0.00	8.36	0.00	17.12	0.00	0.00	25.48
Total	14.21	0.00	14.21	0.00	29.10	0.00	0.00	43.31

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
8.3588	0.1680	5.9524	49.7549	0.0357	47.6190	0.0210	1,213.1653

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.2900	5.8621	0.1706	49.0000	8.3588

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1140 RS Means Crew CLAB Prod: US 47.619 Eff: 100.00 Crew Hrs: 0.29 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Concrete surface treatment, curing, sprayed membrane compound

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03391015	Concrete surface treatment, curing, sprayed membra	1.00	1.70	CSF	16.00	107.00	17.12	29.10
Z-CLAB	Common Building Laborers	1.00	0.29	MH	49.00	100.00	49.00	14.21

Activity: 072613100900 Vapor retarders, building paper, polyethylene vapor barrier, standard, 6 mil (.006" thick), 9' x 400' (Unreviewed) Quantity: 1.70 Unit: SQ

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	12.75	0.00	12.75	0.00	7.33	0.00	0.00	20.08
Total	21.68	0.00	21.68	0.00	12.46	0.00	0.00	34.14

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
12.7529	0.2160	4.6296	59.0414	0.0459	37.0370	0.0270	743.7908

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.3700	4.5946	0.2176	58.5946	12.7529

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1146 RS Means Crew CARP Prod: US 37.037 Eff: 100.00 Crew Hrs: 0.37 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Vapor retarders, building paper, polyethylene vapor barrier, standard, 6 mil (.006" thick), 9' x 400' roll

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z07261030	Vapor retarders, building paper, polyethylene vapo	1.00	1.70	SQ	6.85	107.00	7.33	12.46
Z-CARP	Carpenters	1.00	0.37	MH	58.60	100.00	58.59	21.68

Activity: 312216100012 Fine grading, finish grading, small area, to be paved with grader (Unreviewed) Quantity: 18.89 Unit: SY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.29	0.00	2.29	2.74	0.00	0.00	0.00	5.04
Total	43.32	0.00	43.32	51.83	0.00	0.00	0.00	95.15

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
5.0371	0.0200	50.0000	251.8528	0.0472	400.0000	0.0025	2,014.8227

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.7600	24.8553	0.0402	57.0000	2.2933

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS150 RS Means Crew B11L Prod: US 400 Eff: 100.00 Crew Hrs: 0.38 Labor Pcs: 2.00 Equipment Pcs: 1.00

Notes: Fine grading, finish grading, small area, to be paved with grader

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31221085	Fine grading, finish grading, small area, to be pa	1.00	18.89	SY	0.00	107.00	0.00	0.00
8Z5433201910	Grader, 30,000 Lbs.	1.00	0.38	HR	136.40	100.00	136.39	51.83
Z-CLAB	Common Building Laborers	1.00	0.38	MH	49.00	100.00	49.00	18.62
Z-EQMD	Equipment Operators, Medium Equipment	1.00	0.38	MH	65.00	100.00	65.00	24.70

Biditem

Slab on grade, 24" thick

1009

Takeoff Qty: 205.000 SF

Bid Qty: 205.000 SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	6.58	0.00	6.58	0.38	17.89	0.00	0.00	24.86
Total	1,349.51	0.00	1,349.51	78.46	3,668.31	0.00	0.00	5,096.28

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
23.9600	8.5559	0.1169	212.6995	56.3235	56.3235	18.7013

Activity: 031113653050C.I.P. concrete forms, slab on grade, edge, wood, 7" to 12" high, 4 use, includes erecting, bracing,(Unreviewed)Quantity: 125.00Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4.16	0.00	4.16	0.00	1.55	0.00	0.00	5.71
Total	519.87	0.00	519.87	0.00	193.94	0.00	0.00	713.81

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
4.1590	0.0185	54.0494	224.7892	0.2891	432.3950	0.0023	2,469.1832

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
9.2500	13.5135	0.0740	56.2022	4.1590

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS660 RS Means Crew C1Prod: US 432.395Eff: 100.00Crew Hrs: 2.31Labor Pcs: 4.00Equipment Pcs: 0.00

Notes: C.I.P. concrete forms, slab on grade, edge, wood, 7" to 12" high, 4 use, includes erecting, bracing, stripping and cleaning

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03112190	C.I.P. concrete forms, slab on grade, edge, wood,	1.00	125.00	SF	1.45	107.00	1.55	193.94
Z-CARP	Carpenters	3.00	6.94	MH	58.60	100.00	58.60	406.68
Z-CLAB	Common Building Laborers	1.00	2.31	MH	49.00	100.00	49.00	113.19

Activity: 031516302000Expansion joint, premolded, bituminous fiber, 1/2" x 6"(Unreviewed)Quantity: 62.50Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.23	0.00	1.23	0.00	0.48	0.00	0.00	1.71
Total	76.77	0.00	76.77	0.00	30.09	0.00	0.00	106.86

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1.2283	0.0210	47.6190	58.4914	0.1641	380.9524	0.0026	651.3371

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1.3100	47.7099	0.0210	58.6031	1.2283

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS1146 RS Means Crew CARPProd: US 380.9524Eff: 100.00Crew Hrs: 1.31Labor Pcs: 1.00Equipment Pcs: 0.00

Notes: Expansion joint, premolded, bituminous fiber, 1/2" x 6"

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03152440	Expansion joint, premolded, bituminous fiber, 1/2"	1.00	62.50	LF	0.45	107.00	0.48	30.09
Z-CARP	Carpenters	1.00	1.31	MH	58.60	100.00	58.60	76.77

Activity: 032111600602Reinforcing steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, ex(Unreviewed)Quantity: 550.00Unit: LB

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.52	0.00	0.52	0.00	0.76	0.00	0.00	1.28
Total	284.02	0.00	284.02	0.00	417.84	0.00	0.00	701.86

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
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0.5164	0.0080	125.0000	64.5500	0.5500	1,000.0000	0.0010	1,276.1091
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Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
4.4000	125.0000	0.0080	64.5500	0.5164

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1150 RS Means Crew RODM Prod: US 1000 Eff: 100.00 Crew Hrs: 4.40 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Reinforcing steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03212045	Reinforcing steel, in place, slab on grade, #3 to	1.00	550.00	LB	0.71	107.00	0.76	417.84
Z-RODM	Rodmen (Reinforcing)	1.00	4.40	MH	64.55	100.00	64.55	284.02

Activity: 033113350300	Structural concrete, ready mix, heavyweight, 4000 psi, includes local aggregate, sand, Portland ceme	(Unreviewed)	Quantity: 15.20	Unit: CY
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Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Notes: Structural concrete, ready mix, heavyweight, 4000 psi, includes local aggregate, sand, Portland cement (Type I) and water, delivC.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03311095	Structural concrete, ready mix, heavyweight, 4000	1.00	15.20	CY	183.00	107.00	195.81	2,976.31

Activity: 033113704600	Structural concrete, placing, slab on grade, direct chute, over 6" thick, includes leveling (strike	(Unreviewed)	Quantity: 15.20	Unit: CY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	14.60	0.00	14.60	0.36	0.00	0.00	0.00	14.96
Total	221.88	0.00	221.88	5.45	0.00	0.00	0.00	227.33

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
14.9559	0.0485	20.6186	308.3695	0.0922	164.9485	0.0061	2,466.9560

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
4.4300	3.4312	0.2914	50.0858	14.5974

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS752 RS Means Crew C6 Prod: US 164.9485 Eff: 100.00 Crew Hrs: 0.74 Labor Pcs: 6.00 Equipment Pcs: 2.00

Notes: Structural concrete, placing, slab on grade, direct chute, over 6" thick, includes leveling (strike off) & consolidation, excludC.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03311530	Structural concrete, placing, slab on grade, direc	1.00	15.20	CY	0.00	107.00	0.00	0.00
8Z5433103000	Gas Engine Vibrator	2.00	1.47	HR	3.71	100.00	3.71	5.45
Z-CEFI	Cement Finishers	1.00	0.74	MH	55.00	100.00	55.00	40.70
Z-CLAB	Common Building Laborers	4.00	2.95	MH	49.00	100.00	49.00	144.55
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	0.74	MH	49.50	100.00	49.50	36.63

Activity: 033513300250	Concrete finishing, specified Random Access Floors ACI Classes 1, 2, 3 & 4, forComposite Overall Flo	(Unreviewed)	Quantity: 205.00	Unit: SF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.74	0.00	0.74	0.05	0.00	0.00	0.00	0.79
Total	152.09	0.00	152.09	10.27	0.00	0.00	0.00	162.36

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.7920	0.0047	214.3006	169.7261	0.1196	1,714.4052	0.0006	1,357.8089

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
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2.8700	71.4286	0.0140	52.9930	0.7419
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Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS666 RS Means Crew C10C Prod: US 1714.4052 Eff: 100.00 Crew Hrs: 0.96 Labor Pcs: 3.00 Equipment Pcs: 1.00

Notes: Concrete finishing, specified Random Access Floors ACI Classes 1, 2, 3 & 4, for Composite Overall Floor Flatness & Levelness to FS.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03351020	Concrete finishing, specified Random Access Floors	1.00	205.00	SF	0.00	107.00	0.00	0.00
8Z5433101400	Trowel, 48" Walk-Behind	1.00	0.96	HR	10.70	100.00	10.70	10.27
Z-CEFI	Cement Finishers	2.00	1.91	MH	55.00	100.00	55.00	105.05
Z-CLAB	Common Building Laborers	1.00	0.96	MH	49.00	100.00	49.00	47.04

Activity: 033923130300 Concrete surface treatment, curing, sprayed membrane compound (Unreviewed) Quantity: 2.05 Unit: CSF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	8.13	0.00	8.13	0.00	17.12	0.00	0.00	25.25
Total	16.66	0.00	16.66	0.00	35.10	0.00	0.00	51.76

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
8.1268	0.1680	5.9524	48.3740	0.0431	47.6190	0.0210	1,202.3229

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.3400	6.0294	0.1659	49.0000	8.1268

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1140 RS Means Crew CLAB Prod: US 47.619 Eff: 100.00 Crew Hrs: 0.34 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Concrete surface treatment, curing, sprayed membrane compound

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03391015	Concrete surface treatment, curing, sprayed membra	1.00	2.05	CSF	16.00	107.00	17.12	35.10
Z-CLAB	Common Building Laborers	1.00	0.34	MH	49.00	100.00	49.00	16.66

Activity: 072613100900 Vapor retarders, building paper, polyethylene vapor barrier, standard, 6 mil (.006" thick), 9' x 400' (Unreviewed) Quantity: 2.05 Unit: SQ

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	12.58	0.00	12.58	0.00	7.33	0.00	0.00	19.91
Total	25.78	0.00	25.78	0.00	15.03	0.00	0.00	40.81

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
12.5756	0.2160	4.6296	58.2204	0.0554	37.0370	0.0270	737.3080

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.4400	4.6591	0.2146	58.5909	12.5756

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1146 RS Means Crew CARP Prod: US 37.037 Eff: 100.00 Crew Hrs: 0.44 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Vapor retarders, building paper, polyethylene vapor barrier, standard, 6 mil (.006" thick), 9' x 400' roll

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z07261030	Vapor retarders, building paper, polyethylene vapo	1.00	2.05	SQ	6.85	107.00	7.33	15.03
Z-CARP	Carpenters	1.00	0.44	MH	58.60	100.00	58.59	25.78

Activity: 312216100012 Fine grading, finish grading, small area, to be paved with grader (Unreviewed) Quantity: 22.78 Unit: SY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.30	0.00	2.30	2.75	0.00	0.00	0.00	5.06
Total	52.44	0.00	52.44	62.74	0.00	0.00	0.00	115.18

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
5.0562	0.0200	50.0000	252.8095	0.0570	400.0000	0.0025	2,022.4759
Manhours		Unit/MH	MH/Unit	Total Labor/MH		Base Labor/Unit	
0.9200		24.7609	0.0404	57.0000		2.3020	

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS150 RS Means Crew B11L Prod: US 400 Eff: 100.00 Crew Hrs: 0.46 Labor Pcs: 2.00 Equipment Pcs: 1.00

Notes: Fine grading, finish grading, small area, to be paved with grader

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31221085	Fine grading, finish grading, small area, to be pa	1.00	22.78	SY	0.00	107.00	0.00	0.00
8Z5433201910	Grader, 30,000 Lbs.	1.00	0.46	HR	136.40	100.00	136.39	62.74
Z-CLAB	Common Building Laborers	1.00	0.46	MH	49.00	100.00	49.00	22.54
Z-EQMD	Equipment Operators, Medium Equipment	1.00	0.46	MH	65.00	100.00	65.00	29.90

Biditem

1010

Concrete Equipment Pad

Takeoff Qty: 309.000 SF

Bid Qty: 309.000 SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	3.89	0.00	3.89	0.06	4.23	0.00	0.00	8.17
Total	1,201.37	0.00	1,201.37	17.45	1,305.55	0.00	0.00	2,524.37

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
21.3800	14.4528	0.0692	118.0716	56.1913	56.1913	36.6696

Activity: 031113653000

C.I.P. concrete forms, slab on grade, edge, wood, to 6" high, 4 use, includes erecting, bracing, str

(Unreviewed)

Quantity: 218.00

Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.98	0.00	2.98	0.00	0.89	0.00	0.00	3.87
Total	650.26	0.00	650.26	0.00	193.61	0.00	0.00	843.87

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.9828	0.0133	75.3830	224.8556	0.3615	603.0637	0.0017	2,334.4376
Manhours		Unit/MH	MH/Unit	Total Labor/MH		Base Labor/Unit	
11.5700		18.8418	0.0531	56.2022		2.9828	

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS660 RS Means Crew C1 Prod: US 603.0637 Eff: 100.00 Crew Hrs: 2.89 Labor Pcs: 4.00 Equipment Pcs: 0.00

Notes: C.I.P. concrete forms, slab on grade, edge, wood, to 6" high, 4 use, includes erecting, bracing, stripping and cleaning

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03112185	C.I.P. concrete forms, slab on grade, edge, wood,	1.00	218.00	LF	0.83	107.00	0.89	193.61
Z-CARP	Carpenters	3.00	8.68	MH	58.60	100.00	58.60	508.65
Z-CLAB	Common Building Laborers	1.00	2.89	MH	49.00	100.00	49.00	141.61

Activity: 032111600602

Reinforcing steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, ex

(Unreviewed)

Quantity: 412.00

Unit: LB

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.52	0.00	0.52	0.00	0.76	0.00	0.00	1.28
Total	213.02	0.00	213.02	0.00	313.00	0.00	0.00	526.02

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.5170	0.0080	124.9772	64.6181	0.4121	999.8180	0.0010	1,276.5152

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
3.3000	124.8485	0.0080	64.5515	0.5170

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1150 RS Means Crew RODM Prod: US 999.818 Eff: 100.00 Crew Hrs: 3.30 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Reinforcing steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03212045	Reinforcing steel, in place, slab on grade, #3 to	1.00	412.00	LB	0.71	107.00	0.76	313.00
Z-RODM	Rodmen (Reinforcing)	1.00	3.30	MH	64.55	100.00	64.55	213.02

Activity: 033113350300	Structural concrete, ready mix, heavyweight, 4000 psi, includes local aggregate, sand, Portland ceme	(Unreviewed)	Quantity: 3.81	Unit: CY
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Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Notes: Structural concrete, ready mix, heavyweight, 4000 psi, includes local aggregate, sand, Portland cement (Type I) and water, delivC.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03311095	Structural concrete, ready mix, heavyweight, 4000	1.00	3.81	CY	183.00	107.00	195.81	746.04

Activity: 033113704300	Structural concrete, placing, slab on grade, direct chute, up to 6" thick, includes leveling (strike off)	(Unreviewed)	Quantity: 3.81	Unit: CY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	21.96	0.00	21.96	0.54	0.00	0.00	0.00	22.49
Total	83.65	0.00	83.65	2.04	0.00	0.00	0.00	85.69

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
22.4908	0.0727	13.7595	309.4619	0.0346	110.0758	0.0091	2,475.6952

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1.6700	2.2814	0.4383	50.0898	21.9554

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS752 RS Means Crew C6 Prod: US 110.0758 Eff: 100.00 Crew Hrs: 0.28 Labor Pcs: 6.00 Equipment Pcs: 2.00

Notes: Structural concrete, placing, slab on grade, direct chute, up to 6" thick, includes leveling (strike off) & consolidation, excluC.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03311515	Structural concrete, placing, slab on grade, direc	1.00	3.81	CY	0.00	107.00	0.00	0.00
8Z5433103000	Gas Engine Vibrator	2.00	0.55	HR	3.71	100.00	3.71	2.04
Z-CEFI	Cement Finishers	1.00	0.28	MH	55.00	100.00	55.00	15.40
Z-CLAB	Common Building Laborers	4.00	1.11	MH	49.00	100.00	49.00	54.39
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	0.28	MH	49.50	100.00	49.50	13.86

Activity: 033513300250	Concrete finishing, specified Random Access Floors ACI Classes 1, 2, 3 & 4, forComposite Overall Flo	(Unreviewed)	Quantity: 309.00	Unit: SF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.74	0.00	0.74	0.05	0.00	0.00	0.00	0.79
Total	228.96	0.00	228.96	15.41	0.00	0.00	0.00	244.37

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.7908	0.0047	214.2560	169.4425	0.1803	1,714.0480	0.0006	1,355.5401

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
4.3200	71.5278	0.0140	53.0000	0.7410

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS666 RS Means Crew C10C Prod: US 1714.048 Eff: 100.00 Crew Hrs: 1.44 Labor Pcs: 3.00 Equipment Pcs: 1.00

Notes: Concrete finishing, specified Random Access Floors ACI Classes 1, 2, 3 & 4, forComposite Overall Floor Flatness & Levelness to FS.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03351020	Concrete finishing, specified Random Access Floors	1.00	309.00	SF	0.00	107.00	0.00	0.00
8Z5433101400	Trowel, 48" Walk-Behind	1.00	1.44	HR	10.70	100.00	10.70	15.41
Z-CEFI	Cement Finishers	2.00	2.88	MH	55.00	100.00	55.00	158.40
Z-CLAB	Common Building Laborers	1.00	1.44	MH	49.00	100.00	49.00	70.56

Activity: 033923130300 Concrete surface treatment, curing, sprayed membrane compound (Unreviewed) Quantity: 3.09 Unit: CSF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	8.25	0.00	8.25	0.00	17.12	0.00	0.00	25.37
Total	25.48	0.00	25.48	0.00	52.90	0.00	0.00	78.38

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
8.2460	0.1680	5.9538	49.0944	0.0649	47.6301	0.0210	1,208.1696

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.5200	5.9423	0.1683	49.0000	8.2460

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1140 RS Means Crew CLAB Prod: US 47.6301 Eff: 100.00 Crew Hrs: 0.52 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Concrete surface treatment, curing, sprayed membrane compound

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03391015	Concrete surface treatment, curing, sprayed membra	1.00	3.09	CSF	16.00	107.00	17.12	52.90
Z-CLAB	Common Building Laborers	1.00	0.52	MH	49.00	100.00	49.00	25.48

Biditem

1011

Grating Channel

Takeoff Qty: 31.500 LF

Bid Qty: 31.500 LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	15.70	0.00	15.70	1.65	59.05	0.00	0.00	76.40
Total	494.45	0.00	494.45	51.90	1,860.21	0.00	0.00	2,406.56

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
8.6800	3.6290	0.2756	277.2535	56.9643	56.9643	10.2170

Activity: 031113653050 C.I.P. concrete forms, slab on grade, edge, wood, 7" to 12" high, 4 use, includes erecting, bracing, (Unreviewed) Quantity: 42.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4.16	0.00	4.16	0.00	1.55	0.00	0.00	5.71
Total	174.76	0.00	174.76	0.00	65.16	0.00	0.00	239.92

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
4.1610	0.0185	54.0471	224.8874	0.0971	432.3768	0.0023	2,469.9009

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
3.1100	13.5048	0.0740	56.1929	4.1610

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS660 RS Means Crew C1 Prod: US 432.3768 Eff: 100.00 Crew Hrs: 0.78 Labor Pcs: 4.00 Equipment Pcs: 0.00

Notes: C.I.P. concrete forms, slab on grade, edge, wood, 7" to 12" high, 4 use, includes erecting, bracing, stripping and cleaning

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03112190	C.I.P. concrete forms, slab on grade, edge, wood,	1.00	42.00	SF	1.45	107.00	1.55	65.16
Z-CARP	Carpenters	3.00	2.33	MH	58.60	100.00	58.60	136.54
Z-CLAB	Common Building Laborers	1.00	0.78	MH	49.00	100.00	49.00	38.22

Activity: 032111600602	Reinforcing steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, ex	(Unreviewed)	Quantity: 84.00	Unit: LB
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.51	0.00	0.51	0.00	0.76	0.00	0.00	1.27
Total	43.25	0.00	43.25	0.00	63.81	0.00	0.00	107.06

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.5149	0.0080	125.0186	64.3697	0.0840	1,000.1488	0.0010	1,274.7135

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.6700	125.3731	0.0080	64.5522	0.5149

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1150 RS Means Crew RODM Prod: US 1000.1488 Eff: 100.00 Crew Hrs: 0.67 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Reinforcing steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03212045	Reinforcing steel, in place, slab on grade, #3 to	1.00	84.00	LB	0.71	107.00	0.76	63.81
Z-RODM	Rodmen (Reinforcing)	1.00	0.67	MH	64.55	100.00	64.55	43.25

Activity: 033113350300	Structural concrete, ready mix, heavyweight, 4000 psi, includes local aggregate, sand, Portland ceme	(Unreviewed)	Quantity: 3.20	Unit: CY
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Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Notes: Structural concrete, ready mix, heavyweight, 4000 psi, includes local aggregate, sand, Portland cement (Type I) and water, delivC.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03311095	Structural concrete, ready mix, heavyweight, 4000	1.00	3.20	CY	183.00	107.00	195.81	626.59

Activity: 033113704600	Structural concrete, placing, slab on grade, direct chute, over 6" thick, includes leveling (strike	(Unreviewed)	Quantity: 3.20	Unit: CY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	14.72	0.00	14.72	0.36	0.00	0.00	0.00	15.08
Total	47.10	0.00	47.10	1.15	0.00	0.00	0.00	48.25

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
15.0781	0.0485	20.6319	311.0896	0.0194	165.0548	0.0061	2,488.7170

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.9400	3.4043	0.2938	50.1064	14.7188

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS752 RS Means Crew C6 Prod: US 165.0548 Eff: 100.00 Crew Hrs: 0.16 Labor Pcs: 6.00 Equipment Pcs: 2.00

Notes: Structural concrete, placing, slab on grade, direct chute, over 6" thick, includes leveling (strike off) & consolidation, excludC.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03311530	Structural concrete, placing, slab on grade, direc	1.00	3.20	CY	0.00	107.00	0.00	0.00
8Z5433103000	Gas Engine Vibrator	2.00	0.31	HR	3.71	100.00	3.71	1.15
Z-CEFI	Cement Finishers	1.00	0.16	MH	55.00	100.00	55.00	8.80
Z-CLAB	Common Building Laborers	4.00	0.62	MH	49.00	100.00	49.00	30.38

Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	0.16	MH	49.50	100.00	49.50	7.92
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Activity: 033513300250	Concrete finishing, specified Random Access Floors ACI Classes 1, 2, 3 & 4, forComposite Overall Flo	(Unreviewed)	Quantity: 126.00	Unit: SF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.74	0.00	0.74	0.05	0.00	0.00	0.00	0.79
Total	93.81	0.00	93.81	6.31	0.00	0.00	0.00	100.12

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.7946	0.0047	214.2857	170.2721	0.0735	1,714.2857	0.0006	1,362.1769

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1.7700	71.1864	0.0140	53.0000	0.7445

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS666 RS Means Crew C10C Prod: US 1714.2857 Eff: 100.00 Crew Hrs: 0.59 Labor Pcs: 3.00 Equipment Pcs: 1.00

Notes: Concrete finishing, specified Random Access Floors ACI Classes 1, 2, 3 & 4, forComposite Overall Floor Flatness & Levelness to FS.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03351020	Concrete finishing, specified Random Access Floors	1.00	126.00	SF	0.00	107.00	0.00	0.00
8Z5433101400	Trowel, 48" Walk-Behind	1.00	0.59	HR	10.70	100.00	10.69	6.31
Z-CEFI	Cement Finishers	2.00	1.18	MH	55.00	100.00	55.00	64.90
Z-CLAB	Common Building Laborers	1.00	0.59	MH	49.00	100.00	49.00	28.91

Activity: 055313100122	Floor grating, aluminum, 1-1/4" x 3/16" bearing bars @ 1-3/16" OC, cross bars @4" OC, up to 300 S.F.		Quantity: 31.50	Unit: SF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.79	0.00	2.79	0.20	34.77	0.00	0.00	37.76
Total	87.79	0.00	87.79	6.25	1,095.41	0.00	0.00	1,189.45

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.9854	0.0108	93.0027	277.6498	0.0423	744.0213	0.0013	28,094.4789

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1.3600	23.1618	0.0432	64.5515	2.7870

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS828 RS Means Crew E4 Prod: US 744.0213 Eff: 100.00 Crew Hrs: 0.34 Labor Pcs: 4.00 Equipment Pcs: 1.00

Notes: Floor grating, aluminum, 1-1/4" x 3/16" bearing bars @ 1-3/16" OC, cross bars @4" OC, up to 300 S.F., field fabricated from paneS.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z05531020	Floor grating, aluminum, 1-1/4" x 3/16" bearing ba	1.00	31.50	SF	32.50	107.00	34.77	1,095.41
8Z5433408000	Welder, Gas Engine, 300 amp	1.00	0.34	HR	18.39	100.00	18.38	6.25
Z-SSWK	Structural Steel Workers	3.00	1.02	MH	64.55	100.00	64.55	65.84
Z-SSWK-FORO	Structural Steel Workers - Foreman	1.00	0.34	MH	64.55	100.00	64.56	21.95

Activity: 072613100900	Vapor retarders, building paper, polyethylene vapor barrier, standard, 6 mil (.006" thick), 9' x 400	(Unreviewed)	Quantity: 1.26	Unit: SQ
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	12.56	0.00	12.56	0.00	7.33	0.00	0.00	19.89
Total	15.82	0.00	15.82	0.00	9.24	0.00	0.00	25.06

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
12.5556	0.2161	4.6272	58.0977	0.0340	37.0180	0.0270	736.2468

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.2700	4.6667	0.2143	58.5926	12.5556

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1146 RS Means Crew CARP Prod: US 37.018 Eff: 100.00 Crew Hrs: 0.27 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Vapor retarders, building paper, polyethylene vapor barrier, standard, 6 mil (.006" thick), 9' x 400' roll

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z07261030	Vapor retarders, building paper, polyethylene vapo	1.00	1.26	SQ	6.85	107.00	7.33	9.24
Z-CARP	Carpenters	1.00	0.27	MH	58.60	100.00	58.59	15.82

Activity: 312216100012	Fine grading, finish grading, small area, to be paved with grader	(Unreviewed)	Quantity: 14.00	Unit: SY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.28	0.00	2.28	2.73	0.00	0.00	0.00	5.01
Total	31.92	0.00	31.92	38.19	0.00	0.00	0.00	70.11

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
5.0079	0.0200	50.0000	250.3929	0.0350	400.0000	0.0025	2,003.1429

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.5600	25.0000	0.0400	57.0000	2.2800

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS150 RS Means Crew B11L Prod: US 400 Eff: 100.00 Crew Hrs: 0.28 Labor Pcs: 2.00 Equipment Pcs: 1.00

Notes: Fine grading, finish grading, small area, to be paved with grader

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31221085	Fine grading, finish grading, small area, to be pa	1.00	14.00	SY	0.00	107.00	0.00	0.00
8Z5433201910	Grader, 30,000 Lbs.	1.00	0.28	HR	136.40	100.00	136.39	38.19
Z-CLAB	Common Building Laborers	1.00	0.28	MH	49.00	100.00	49.00	13.72
Z-EQMD	Equipment Operators, Medium Equipment	1.00	0.28	MH	65.00	100.00	65.00	18.20

Biditem

Concrete Columns

1012

Takeoff Qty: 72.000 VLF

Bid Qty: 72.000 VLF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	106.68	0.00	106.68	1.43	80.13	0.00	0.00	188.25
Total	7,681.22	0.00	7,681.22	103.06	5,769.62	0.00	0.00	13,553.90

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
132.3800	0.5439	1.8386	102.3863	58.0240	58.0240	1.0592

Activity: 031113256650	C.I.P. concrete forms, column, square, plywood, 24" x 24", 4 use, includes erecting, bracing, stripp	Quantity: 576.00	Unit: SF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	7.53	0.00	7.53	0.00	2.17	0.00	0.00	9.70
Total	4,338.05	0.00	4,338.05	0.00	1,251.13	0.00	0.00	5,589.18

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
7.5313	0.0335	29.8507	224.8160	2.4120	238.8060	0.0042	2,317.2388

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
77.1900	7.4621	0.1340	56.1996	7.5313

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS660 RS Means Crew C1 Prod: US 238.806 Eff: 100.00 Crew Hrs: 19.30 Labor Pcs: 4.00 Equipment Pcs: 0.00

Notes: C.I.P. concrete forms, column, square, plywood, 24" x 24", 4 use, includes erecting, bracing, stripping and cleaning

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03111555	C.I.P. concrete forms, column, square, plywood, 24	1.00	576.00	SF	2.03	107.00	2.17	1,251.13
Z-CARP	Carpenters	3.00	57.89	MH	58.60	100.00	58.60	3,392.35
Z-CLAB	Common Building Laborers	1.00	19.30	MH	49.00	100.00	49.00	945.70

Activity: 031505125200 Chamfer strip, wood, 3/4" wide Quantity: 288.00 Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.88	0.00	0.88	0.00	0.17	0.00	0.00	1.05
Total	253.15	0.00	253.15	0.00	49.31	0.00	0.00	302.46

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.8790	0.0150	66.6667	58.5995	0.5400	533.3333	0.0019	560.1111

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
4.3200	66.6667	0.0150	58.5995	0.8790

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1146 RS Means Crew CARP Prod: US 533.3333 Eff: 100.00 Crew Hrs: 4.32 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Chamfer strip, wood, 3/4" wide

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03151025	Chamfer strip, wood, 3/4" wide	1.00	288.00	LF	0.16	107.00	0.17	49.31
Z-CARP	Carpenters	1.00	4.32	MH	58.60	100.00	58.60	253.15

Activity: 032111600200 Reinforcing steel, in place, columns, #3 to #7, A615, grade 60, incl labor for accessories, excl mat Quantity: 1.55 Unit: TON

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1,377.21	0.00	1,377.21	0.00	1,524.75	0.00	0.00	2,901.95
Total	2,134.67	0.00	2,134.67	0.00	2,363.36	0.00	0.00	4,498.03

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1,377.2065	21.3334	0.0469	64.5565	4.1333	0.3750	2.6667	1,088.2320

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
33.0700	0.0469	21.3355	64.5500	1,377.2065

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1150 RS Means Crew RODM Prod: US 0.375 Eff: 100.00 Crew Hrs: 33.07 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Reinforcing steel, in place, columns, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03211960	Reinforcing steel, in place, columns, #3 to #7, A6	1.00	1.55	TON	1,425.00	107.00	1,524.75	2,363.36
Z-RODM	Rodmen (Reinforcing)	1.00	33.07	MH	64.55	100.00	64.55	2,134.67

Activity: 033113350300 Structural concrete, ready mix, heavyweight, 4000 psi, includes local aggregate, sand, Portland ceme Quantity: 10.66 Unit: CY

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Notes: Structural concrete, ready mix, heavyweight, 4000 psi, includes local aggregate, sand, Portland cement (Type I) and water, delivC.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03311095	Structural concrete, ready mix, heavyweight, 4000	1.00	10.66	CY	183.00	107.00	195.81	2,087.33

Activity: 033113700800	Structural concrete, placing, column, square or round, pumped, 24" thick, includes leveling (strike	Quantity: 10.66	Unit: CY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	36.12	0.00	36.12	9.67	0.00	0.00	0.00	45.78
Total	385.00	0.00	385.00	103.06	0.00	0.00	0.00	488.06

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
45.7842	0.0870	11.4945	526.2670	0.1159	91.9560	0.0109	4,210.1359

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
7.4300	1.4347	0.6970	51.8170	36.1163

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS720 RS Means Crew C20 Prod: US 91.954 Eff: 100.00 Crew Hrs: 0.93 Labor Pcs: 8.00 Equipment Pcs: 3.00

Notes: Structural concrete, placing, column, square or round, pumped, 24" thick, includes leveling (strike off) & consolidation, excluC.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03311315	Structural concrete, placing, column, square or ro	1.00	10.66	CY	0.00	107.00	0.00	0.00
8Z5433102120	Concrete Pump (Small)	1.00	0.93	HR	103.44	100.00	103.44	96.20
8Z5433103000	Gas Engine Vibrator	2.00	1.85	HR	3.71	100.00	3.71	6.86
Z-CEFI	Cement Finishers	1.00	0.93	MH	55.00	100.00	55.00	51.15
Z-CLAB	Common Building Laborers	5.00	4.64	MH	49.00	100.00	49.00	227.36
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	0.93	MH	49.50	100.00	49.51	46.04
Z-EQMD	Equipment Operators, Medium Equipment	1.00	0.93	MH	65.00	100.00	65.00	60.45

Activity: 033529600050	Concrete finishing, walls, burlap rub with grout, includes breaking ties and patching voids	Quantity: 576.00	Unit: SF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.99	0.00	0.99	0.00	0.03	0.00	0.00	1.02
Total	570.35	0.00	570.35	0.00	18.49	0.00	0.00	588.84

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.9902	0.0180	55.5556	55.0106	1.2960	444.4444	0.0023	454.3519

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
10.3700	55.5448	0.0180	55.0000	0.9902

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1195 RS Means Crew CEFI Prod: US 444.4444 Eff: 100.00 Crew Hrs: 10.37 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Concrete finishing, walls, burlap rub with grout, includes breaking ties and patching voids

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03351180	Concrete finishing, walls, burlap rub with grout,	1.00	576.00	SF	0.03	107.00	0.03	18.49
Z-CEFI	Cement Finishers	1.00	10.37	MH	55.00	100.00	55.00	570.35

Biditem

1013

Concrete Beams

Takeoff Qty: 264.600 LF

Bid Qty: 264.600 LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	101.88	0.00	101.88	7.41	104.77	0.00	0.00	214.06
Total	26,957.25	0.00	26,957.25	1,961.84	27,722.36	0.00	0.00	56,641.45

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
457.7100	0.5781	1.7298	123.7496	58.8959	58.8959	14.4528

Activity: 033053400350

Structural concrete, in place, beam (4500 psi), includes forms(4 uses), Grade 60

Quantity: 42.45

Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	635.04	0.00	635.04	46.22	653.06	0.00	0.00	1,334.31
Total	26,957.25	0.00	26,957.25	1,961.84	27,722.36	0.00	0.00	56,641.45

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
681.2506	0.4313	2.3187	1,579.5962	2.2885	18.5494	0.0539	24,750.6049

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
457.7100	0.0927	10.7823	58.8959	635.0353

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS680

RS Means Crew C14A

Prod: US

18.5494

Eff: 100.00

Crew Hrs: 18.31

Labor Pcs: 25.00

Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z01541540	Scaffolding, steel tubular, heavy duty shoring for	1.00	6.00	CSF	250.00	107.00	267.50	1,605.00
2Z03301005	Structural concrete, in place, beam (3500 psi), 5	1.00	42.45	CY	575.00	107.00	615.25	26,117.36
8Z5433102120	Concrete Pump (Small)	1.00	18.31	HR	103.44	100.00	103.44	1,893.91
8Z5433103000	Gas Engine Vibrator	1.00	18.31	HR	3.71	100.00	3.71	67.93
Z-CARP	Carpenters	16.00	292.93	MH	58.60	100.00	58.60	17,165.70
Z-CARP-FORO	Carpenters - Foreman	1.00	18.31	MH	58.60	100.00	58.60	1,072.97
Z-CEFI	Cement Finishers	1.00	18.31	MH	55.00	100.00	55.00	1,007.05
Z-CLAB	Common Building Laborers	2.00	36.62	MH	49.00	100.00	49.00	1,794.38
Z-EQMD	Equipment Operators, Medium Equipment	1.00	18.31	MH	65.00	100.00	65.00	1,190.15
Z-RODM	Rodmen (Reinforcing)	4.00	73.23	MH	64.55	100.00	64.55	4,727.00

Biditem

1014

Masonry Walls

Takeoff Qty: 1,272.000 SF

Bid Qty: 1,272.000 SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	14.84	0.00	14.84	0.36	8.86	0.00	0.00	24.06
Total	18,874.50	0.00	18,874.50	459.79	11,269.32	0.00	0.00	30,603.61

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
360.5700	3.5277	0.2835	84.8756	52.3463	52.3463	13.1012

Activity: 040516300350

Grout, concrete masonry unit (CMU) cores, 12" thick, 0.422 C.F./S.F., pumped, excludes blockwork

Quantity: 636.00

Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.66	0.00	2.66	0.25	2.66	0.00	0.00	5.57
Total	1,691.77	0.00	1,691.77	157.46	1,694.49	0.00	0.00	3,543.72

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.9076	0.0125	80.0000	232.6075	0.9938	640.0000	0.0016	3,566.0075

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
31.8000	20.0000	0.0500	53.2003	2.6600

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS786

RS Means Crew D4

Prod: US

640

Eff: 100.00

Crew Hrs: 7.95

Labor Pcs: 4.00

Equipment Pcs: 1.00

Notes: Grout, concrete masonry unit (CMU) cores, 12" thick, 0.422 C.F./S.F., pumped, excludes blockwork

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z04051570	Grout, concrete masonry unit (CMU) cores, 12" thic	1.00	636.00	SF	2.49	107.00	2.66	1,694.49

8Z5433102160	Grout Pump, 50 C.F./hr.	1.00	7.95	HR	19.81	100.00	19.81	157.46
Z-BRHE	Bricklayer Helpers	2.00	15.90	MH	46.65	100.00	46.65	741.74
Z-BRIC	Bricklayers	1.00	7.95	MH	57.50	100.00	57.50	457.13
Z-EQLT	Equipment Operators, Light Equipment	1.00	7.95	MH	62.00	100.00	62.00	492.90

Activity: 040519260060	Masonry reinforcing bars, #5 and #6 reinforcing steel bars, placed vertically, ASTM A615	Quantity: 1081.20	Unit: LB
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.69	0.00	0.69	0.00	0.76	0.00	0.00	1.45
Total	745.78	0.00	745.78	0.00	821.39	0.00	0.00	1,567.17

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.6898	0.0120	83.3333	57.4809	1.6218	666.6667	0.0015	966.3152

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
12.9700	83.3616	0.0120	57.5004	0.6898

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1152 RS Means Crew BRIC Prod: US 666.6667 Eff: 100.00 Crew Hrs: 12.97 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Masonry reinforcing bars, #5 and #6 reinforcing steel bars, placed vertically, ASTM A615

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z04051960	Masonry reinforcing bars, #5 and #6 reinforcing st	1.00	1,081.20	LB	0.71	107.00	0.76	821.39
Z-BRIC	Bricklayers	1.00	12.97	MH	57.50	100.00	57.50	745.78

Activity: 040519260800	Masonry reinforcing bars, ladder type steel joint reinforcing, mill standard galvanized, 12" wall, 9	Quantity: 10.18	Unit: CLF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	22.99	0.00	22.99	0.00	23.54	0.00	0.00	46.53
Total	234.03	0.00	234.03	0.00	239.64	0.00	0.00	473.67

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
22.9892	0.4000	2.5000	57.4730	0.5090	20.0000	0.0500	930.5894

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
4.0700	2.5012	0.3998	57.5012	22.9892

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1152 RS Means Crew BRIC Prod: US 20 Eff: 100.00 Crew Hrs: 4.07 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Masonry reinforcing bars, ladder type steel joint reinforcing, mill standard galvanized, 12" wall, 9 ga. sides, 9 ga. ties

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z04052005	Masonry reinforcing bars, ladder type steel joint	1.00	10.18	CLF	22.00	107.00	23.54	239.64
Z-BRIC	Bricklayers	1.00	4.07	MH	57.50	100.00	57.50	234.03

Activity: 040523130050	Control joint, PVC, for double wythe 8" minimum wall (Brick/CMU)	Quantity: 63.60	Unit: LF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.15	0.00	1.15	0.00	3.48	0.00	0.00	4.63
Total	73.03	0.00	73.03	0.00	221.17	0.00	0.00	294.20

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1.1483	0.0200	50.0000	57.4135	0.1590	400.0000	0.0025	1,850.3145

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1.2700	50.0787	0.0200	57.5039	1.1483

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1152 RS Means Crew BRIC Prod: US 400 Eff: 100.00 Crew Hrs: 1.27 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Control joint, PVC, for double wythe 8" minimum wall (Brick/CMU)

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z04052155	Control joint, PVC, for double wythe 8" minimum wa	1.00	63.60	LF	3.25	107.00	3.48	221.17
Z-BRIC	Bricklayers	1.00	1.27	MH	57.50	100.00	57.50	73.03

Activity: 042210344300 Concrete block partitions, normal weight blocks, 2000 psi, 12" x 8" x 16", tooled joints both sides, Quantity: 1272.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	7.34	0.00	7.34	0.00	4.79	0.00	0.00	12.14
Total	9,340.17	0.00	9,340.17	0.00	6,097.46	0.00	0.00	15,437.63

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
7.3429	0.0235	42.5532	312.4639	3.7365	340.4255	0.0029	4,131.5750

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
179.3600	7.0919	0.1410	52.0750	7.3429

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS792 RS Means Crew D9 Prod: US 340.4255 Eff: 100.00 Crew Hrs: 29.89 Labor Pcs: 6.00 Equipment Pcs: 0.00

Notes: Concrete block partitions, normal weight blocks, 2000 psi, 12" x 8" x 16", tooled joints both sides, includes mortar, excludes s.S.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z04222315	Concrete block partitions, normal weight blocks, 2	1.00	1,272.00	SF	4.48	107.00	4.79	6,097.46
Z-BRHE	Bricklayer Helpers	3.00	89.68	MH	46.65	100.00	46.65	4,183.57
Z-BRIC	Bricklayers	3.00	89.68	MH	57.50	100.00	57.50	5,156.60

Activity: 090190930790 Surface preparation, exterior, siding, stucco, pressure wash, based on 2500 lb operating pressure Quantity: 1272.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.15	0.00	0.15	0.03	0.00	0.00	0.00	0.18
Total	187.18	0.00	187.18	40.48	0.00	0.00	0.00	227.66

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.1790	0.0030	333.3333	59.6593	0.4770	2,666.6667	0.0004	477.2746

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
3.8200	332.9843	0.0030	49.0000	0.1472

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS036 RS Means Crew A1H Prod: US 2666.6667 Eff: 100.00 Crew Hrs: 3.82 Labor Pcs: 1.00 Equipment Pcs: 1.00

Notes: Surface preparation, exterior, siding, stucco, pressure wash, based on 2500 lb operating pressure

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z09011305	Surface preparation, exterior, siding, stucco, pre	1.00	1,272.00	SF	0.00	107.00	0.00	0.00
8Z5433406300	Exterior Steam Cleaner	1.00	3.82	HR	10.60	100.00	10.60	40.48
Z-CLAB	Common Building Laborers	1.00	3.82	MH	49.00	100.00	49.00	187.18

Activity: 092423400015 Stucco, 3 coats, float finish, with mesh, on wood frame, 7/8" thick Quantity: 142.00 Unit: SY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	39.83	0.00	39.83	1.84	10.38	0.00	0.00	52.05
Total	5,655.22	0.00	5,655.22	261.85	1,473.82	0.00	0.00	7,390.89

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
41.6695	0.1270	7.8740	328.1064	2.2543	62.9921	0.0159	3,278.6470

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
108.2000	1.3124	0.7620	52.2664	39.8255

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS878 RS Means Crew J2 Prod: US 62.9921 Eff: 100.00 Crew Hrs: 18.03 Labor Pcs: 6.00 Equipment Pcs: 1.00

Notes: Stucco, 3 coats, float finish, with mesh, on wood frame, 7/8" thick

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z09241000	Stucco, 3 coats, float finish, with mesh, on wood	1.00	142.00	SY	9.70	107.00	10.38	1,473.82
8Z5433101800	Mixing Machine, 6 C.F.	1.00	18.03	HR	14.52	100.00	14.52	261.85
Z-LATH	Lathers	1.00	18.03	MH	58.45	100.00	58.45	1,053.85
Z-PLAH	Plasterer Helpers	2.00	36.07	MH	47.55	100.00	47.55	1,715.13
Z-PLAS	Plasterers	3.00	54.10	MH	53.35	100.00	53.35	2,886.24

Activity: 099113900520	Paints & coatings, walls, concrete masonry units (CMU), porous, first coat, waterproof sealer, brush	(Unreviewed)	Quantity: 1272.00	Unit: SF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.55	0.00	0.55	0.00	0.51	0.00	0.00	1.06
Total	694.60	0.00	694.60	0.00	653.30	0.00	0.00	1,347.90

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.5461	0.0110	90.9091	49.6427	1.7490	727.2727	0.0014	770.6690

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
13.9900	90.9221	0.0110	49.6497	0.5461

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1199 RS Means Crew PORD Prod: US 727.2727 Eff: 100.00 Crew Hrs: 13.99 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Paints & coatings, walls, concrete masonry units (CMU), porous, first coat, waterproof sealer, brushwork

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z09911950	Paints & coatings, walls, concrete masonry units (1.00	1,272.00	SF	0.48	107.00	0.51	653.30
Z-PORD	Painters, Ordinary	1.00	13.99	MH	49.65	100.00	49.65	694.60

Activity: 099113900420	Paints & coatings, walls, concrete masonry units (CMU), smooth surface, second coat, latex, roller	(Unreviewed)	Quantity: 1272.00	Unit: SF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.20	0.00	0.20	0.00	0.05	0.00	0.00	0.25
Total	252.72	0.00	252.72	0.00	68.05	0.00	0.00	320.77

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.1987	0.0040	250.0000	49.6698	0.6360	2,000.0000	0.0005	504.3553

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
5.0900	249.9018	0.0040	49.6503	0.1987

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1199 RS Means Crew PORD Prod: US 2000 Eff: 100.00 Crew Hrs: 5.09 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Paints & coatings, walls, concrete masonry units (CMU), smooth surface, second coat, latex, roller

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z09911905	Paints & coatings, walls, concrete masonry units (1.00	1,272.00	SF	0.05	107.00	0.05	68.05
Z-PORD	Painters, Ordinary	1.00	5.09	MH	49.65	100.00	49.65	252.72

1015

Takeoff Qty: 1,990.000 SF

Bid Qty: 1,990.000 SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.81	0.00	2.81	1.67	12.14	0.00	0.00	16.63
Total	5,600.70	0.00	5,600.70	3,321.35	24,167.56	0.00	0.00	33,089.61

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
87.0800	22.8525	0.0438	379.9909	64.3167	64.3167	181.1627

Activity: 032111602200Crane cost for handling

Quantity: 99.50

Unit: TON

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	26.68	0.00	26.68	16.85	0.00	0.00	0.00	43.53
Total	2,655.01	0.00	2,655.01	1,676.57	0.00	0.00	0.00	4,331.58

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
43.5335	0.0593	16.8673	734.2906	0.7374	134.9381	0.0074	5,874.3245

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
41.3000	2.4092	0.4151	64.2860	26.6835

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS750

RS Means Crew C5

Prod: US

134.9381

Eff: 100.00

Crew Hrs: 5.90

Labor Pcs: 7.00

Equipment Pcs: 1.00

Notes: Reinforcing steel, crane cost for handling, 90 picks/day, up to 1.5 Tons/day

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03212075	Reinforcing steel, crane cost for handling, 90 pic	1.00	99.50	TON	0.00	107.00	0.00	0.00
8Z5433602500	Hyd. Crane, 20 ton	1.00	5.90	HR	284.16	100.00	284.16	1,676.57
Z-EQHV	Equipment Operators, Crane or Shovel	1.00	5.90	MH	68.85	100.00	68.85	406.22
Z-EQOL	Equipment Operators, Oilers	1.00	5.90	MH	58.40	100.00	58.40	344.56
Z-RODM	Rodmen (Reinforcing)	4.00	23.60	MH	64.55	100.00	64.55	1,523.38
Z-RODM-FORO	Rodmen (Reinforcing) - Foreman	1.00	5.90	MH	64.55	100.00	64.55	380.85

Activity: 034113500100Precast slab, roof/floor members, grouted, hollow, 8" thick, prestressed

Quantity: 1990.00

Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.48	0.00	1.48	0.83	12.14	0.00	0.00	14.45
Total	2,945.69	0.00	2,945.69	1,644.78	24,167.56	0.00	0.00	28,758.03

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.3068	0.0026	391.3009	902.6408	0.6357	3,130.4074	0.0003	45,238.3672

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
45.7800	43.4688	0.0230	64.3445	1.4802

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS672

RS Means Crew C11

Prod: US

3130.4074

Eff: 100.00

Crew Hrs: 5.09

Labor Pcs: 9.00

Equipment Pcs: 1.00

Notes: Precast slab, roof/floor members, grouted, hollow, 8" thick, prestressed

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03411010	Precast slab, roof/floor members, grouted, hollow,	1.00	1,990.00	SF	11.35	107.00	12.14	24,167.56
8Z5433602300	Lattice Boom Crane, 150 Ton	1.00	5.09	HR	323.14	100.00	323.14	1,644.78
Z-EQHV	Equipment Operators, Crane or Shovel	1.00	5.09	MH	68.85	100.00	68.85	350.45
Z-EQOL	Equipment Operators, Oilers	1.00	5.09	MH	58.40	100.00	58.40	297.26
Z-SSWK	Structural Steel Workers	6.00	30.51	MH	64.55	100.00	64.55	1,969.42
Z-SSWK-FORO	Structural Steel Workers - Foreman	1.00	5.09	MH	64.55	100.00	64.55	328.56

Biditem

1016

Concrete Walls

Takeoff Qty: 930.000 SF

Bid Qty: 930.000 SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	7.98	0.00	7.98	0.16	6.77	0.00	0.00	14.91
Total	7,417.65	0.00	7,417.65	152.94	6,292.46	0.00	0.00	13,863.05

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
131.5500	7.0696	0.1415	105.3824	56.3865	56.3865	19.2675

Activity: 031113852150

C.I.P. concrete forms, wall, job built, plywood, to 8' high, 4 use, includes erecting, bracing, stri

Quantity: 930.00

Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	5.42	0.00	5.42	0.00	2.50	0.00	0.00	7.92
Total	5,036.49	0.00	5,036.49	0.00	2,328.53	0.00	0.00	7,365.02

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
5.4156	0.0158	63.1579	342.0367	1.8406	505.2632	0.0020	4,001.3691

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
88.3600	10.5251	0.0950	56.9997	5.4156

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS718 RS Means Crew C2Prod: US 505.2632Eff: 100.00Crew Hrs: 14.73Labor Pcs: 6.00Equipment Pcs: 0.00

Notes: C.I.P. concrete forms, wall, job built, plywood, to 8' high, 4 use, includes erecting, bracing, stripping and cleaning

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03112370	C.I.P. concrete forms, wall, job built, plywood, t	1.00	930.00	SF	2.34	107.00	2.50	2,328.53
Z-CARP	Carpenters	4.00	58.90	MH	58.60	100.00	58.60	3,451.54
Z-CARP-FORO	Carpenters - Foreman	1.00	14.73	MH	58.60	100.00	58.60	863.18
Z-CLAB	Common Building Laborers	1.00	14.73	MH	49.00	100.00	49.00	721.77

Activity: 032111600700

Reinforcing steel, in place, walls, #3 to #7, A615, grade 60, incl labor for accessories, excl mater

Quantity: .40

Unit: TON

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	689.08	0.00	689.08	0.00	1,524.75	0.00	0.00	2,213.83
Total	275.63	0.00	275.63	0.00	609.90	0.00	0.00	885.53

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
689.0750	10.6668	0.0937	64.6003	0.5333	0.7500	1.3333	1,660.3558

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
4.2700	0.0937	10.6750	64.5504	689.0750

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS1150 RS Means Crew RODMProd: US 0.75Eff: 100.00Crew Hrs: 4.27Labor Pcs: 1.00Equipment Pcs: 0.00

Notes: Reinforcing steel, in place, walls, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03212050	Reinforcing steel, in place, walls, #3 to #7, A615	1.00	0.40	TON	1,425.00	107.00	1,524.75	609.90
Z-RODM	Rodmen (Reinforcing)	1.00	4.27	MH	64.55	100.00	64.55	275.63

Activity: 033113350150

Structural concrete, ready mix, heavyweight, 3000 psi, includes local aggregate, sand, Portland ceme

Quantity: 17.20

Unit: CY

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Notes: Structural concrete, ready mix, heavyweight, 3000 psi, includes local aggregate, sand, Portland cement (Type I) and water, delivC.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03311085	Structural concrete, ready mix, heavyweight, 3000	1.00	17.20	CY	179.00	107.00	191.53	3,294.32

Activity: 033113704950	Structural concrete, placing, walls, pumped, 8" thick, includes leveling (strike off) & consolidatio	Quantity: 17.20	Unit: CY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	33.20	0.00	33.20	8.89	0.00	0.00	0.00	42.09
Total	571.03	0.00	571.03	152.94	0.00	0.00	0.00	723.97

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
42.0913	0.0800	12.5000	526.1410	0.1720	100.0000	0.0100	4,209.1279

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
11.0200	1.5608	0.6407	51.8176	33.1994

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS720 RS Means Crew C20 Prod: US 100 Eff: 100.00 Crew Hrs: 1.38 Labor Pcs: 8.00 Equipment Pcs: 3.00

Notes: Structural concrete, placing, walls, pumped, 8" thick, includes leveling (strike off) & consolidation, excludes material

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03311550	Structural concrete, placing, walls, pumped, 8" th	1.00	17.20	CY	0.00	107.00	0.00	0.00
8Z5433102120	Concrete Pump (Small)	1.00	1.38	HR	103.44	100.00	103.43	142.74
8Z5433103000	Gas Engine Vibrator	2.00	2.75	HR	3.71	100.00	3.71	10.20
Z-CEFI	Cement Finishers	1.00	1.38	MH	55.00	100.00	55.00	75.90
Z-CLAB	Common Building Laborers	5.00	6.88	MH	49.00	100.00	49.00	337.12
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	1.38	MH	49.50	100.00	49.50	68.31
Z-EQMD	Equipment Operators, Medium Equipment	1.00	1.38	MH	65.00	100.00	65.00	89.70

Activity: 033529600020	Concrete finishing, walls, includes breaking ties and patching voids	Quantity: 1860.00	Unit: SF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.83	0.00	0.83	0.00	0.03	0.00	0.00	0.86
Total	1,534.50	0.00	1,534.50	0.00	59.71	0.00	0.00	1,594.21

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.8250	0.0150	66.6667	55.0000	3.4875	533.3333	0.0019	457.1211

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
27.9000	66.6667	0.0150	55.0000	0.8250

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1195 RS Means Crew CEFI Prod: US 533.3333 Eff: 100.00 Crew Hrs: 27.90 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Concrete finishing, walls, includes breaking ties and patching voids

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03351175	Concrete finishing, walls, includes breaking ties	1.00	1,860.00	SF	0.03	107.00	0.03	59.71
Z-CEFI	Cement Finishers	1.00	27.90	MH	55.00	100.00	55.00	1,534.50

Biditem

1017

Exterior Doors

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
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U. Cost	4,098.53	0.00	4,098.53	0.00	29,034.88	0.00	0.00	33,133.41
Total	4,098.53	0.00	4,098.53	0.00	29,034.88	0.00	0.00	33,133.41

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
69.5400	0.0144	69.5400	476.4655	58.9377	58.9377	0.0144

Activity: 08121313000 Frames, steel, knock down, hollow metal, single, 16 ga., up to 4-7/8" deep, 3'-0" x 7'-0" Quantity: 2.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	58.60	0.00	58.60	0.00	237.54	0.00	0.00	296.14
Total	117.20	0.00	117.20	0.00	475.08	0.00	0.00	592.28

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
58.6000	1.0000	1.0000	58.6000	0.2500	8.0000	0.1250	2,369.1200

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
2.0000	1.0000	1.0000	58.6000	58.6000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1146 RS Means Crew CARP Prod: US 8 Eff: 100.00 Crew Hrs: 2.00 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Frames, steel, knock down, hollow metal, single, 16 ga., up to 4-7/8" deep, 3'-0" x 7'-0"

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z08121050	Frames, steel, knock down, hollow metal, single, 1	1.00	2.00	EA	222.00	107.00	237.54	475.08
Z-CARP	Carpenters	1.00	2.00	MH	58.60	100.00	58.60	117.20

Activity: 083323100500 Doors, rolling service, steel, manual, 20 gauge, 14' x 14' high, incl. hardware Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1,291.00	0.00	1,291.00	0.00	2,247.00	0.00	0.00	3,538.00
Total	1,291.00	0.00	1,291.00	0.00	2,247.00	0.00	0.00	3,538.00

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1,291.0000	20.0000	0.0500	64.5500	2.5000	0.4000	2.5000	1,415.2000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
20.0000	0.0500	20.0000	64.5500	1,291.0000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1148 RS Means Crew SSWK Prod: US 0.4 Eff: 100.00 Crew Hrs: 20.00 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Doors, rolling service, steel, manual, 20 gauge, 14' x 14' high, incl. hardware

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z08331195	Doors, rolling service, steel, manual, 20 gauge, 1	1.00	1.00	EA	2,100.00	107.00	2,247.00	2,247.00
Z-SSWK	Structural Steel Workers	1.00	20.00	MH	64.55	100.00	64.55	1,291.00

Activity: 083323104500 Doors, rolling service, steel, manual, motor operators for, to 14' x 14' opening Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	206.56	0.00	206.56	0.00	1,177.00	0.00	0.00	1,383.56
Total	206.56	0.00	206.56	0.00	1,177.00	0.00	0.00	1,383.56

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
206.5600	3.2000	0.3125	64.5500	0.4000	2.5000	0.4000	3,458.9000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
3.2000	0.3125	3.2000	64.5500	206.5600

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1148 RS Means Crew SSWK Prod: US 2.5 Eff: 100.00 Crew Hrs: 3.20 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Doors, rolling service, steel, manual, motor operators for, to 14' x 14' opening

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z08331310	Doors, rolling service, steel, manual, motor opera	1.00	1.00	EA	1,100.00	107.00	1,177.00	1,177.00
Z-SSWK	Structural Steel Workers	1.00	3.20	MH	64.55	100.00	64.55	206.56

Activity: 087120650011 Thresholds, aluminum, 3' long door saddles Quantity: 24.00 Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	9.79	0.00	9.79	0.00	15.35	0.00	0.00	25.15
Total	234.99	0.00	234.99	0.00	368.51	0.00	0.00	603.50

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
9.7913	0.1670	5.9880	58.6302	0.5010	47.9042	0.0209	1,204.5908

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
4.0100	5.9850	0.1671	58.6010	9.7913

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1146 RS Means Crew CARP Prod: US 47.9042 Eff: 100.00 Crew Hrs: 4.01 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Thresholds, aluminum, 3' long door saddles

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z08712380	Thresholds, aluminum, 3' long door saddles	1.00	24.00	LF	14.35	107.00	15.35	368.51
Z-CARP	Carpenters	1.00	4.01	MH	58.60	100.00	58.60	234.99

Activity: 087120901430 Door hardware, hinges, full mortise, high frequency, brass base, US10, 4-1/2" x4-1/2" Quantity: 12.00 Unit: PAIR

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Notes: Door hardware, hinges, full mortise, high frequency, brass base, US10, 4-1/2" x4-1/2"

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z08712765	Door hardware, hinges, full mortise, high frequenc	1.00	12.00	PAIR	41.50	107.00	44.41	532.86

Activity: 081213133640 Frames, steel, knock down, hollow metal, double, 14 ga., 5-3/4" deep, 7'-0" h x8'-0" w Quantity: 3.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	78.13	0.00	78.13	0.00	444.05	0.00	0.00	522.18
Total	234.40	0.00	234.40	0.00	1,332.15	0.00	0.00	1,566.55

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
78.1333	1.3330	0.7502	58.6147	0.4999	6.0015	0.1666	3,133.8835

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
4.0000	0.7500	1.3333	58.6000	78.1333

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1146 RS Means Crew CARP Prod: US 6.0015 Eff: 100.00 Crew Hrs: 4.00 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Frames, steel, knock down, hollow metal, double, 14 ga., 5-3/4" deep, 7'-0" h x8'-0" w

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z08121140	Frames, steel, knock down, hollow metal, double, 1	1.00	3.00	EA	415.00	107.00	444.05	1,332.15
Z-CARP	Carpenters	1.00	4.00	MH	58.60	100.00	58.60	234.40

Activity: 081313131120 Doors, commercial, steel, flush, full panel, hollow core, hollow metal, 18 ga., 3'-0" x 7'-0" x 1-3/4" Quantity: 8.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
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U. Cost	55.16	0.00	55.16	0.00	342.40	0.00	0.00	397.56
Total	441.26	0.00	441.26	0.00	2,739.20	0.00	0.00	3,180.46

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
55.1575	0.9410	1.0627	58.6158	0.9410	8.5016	0.1176	3,379.8725

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
7.5300	1.0624	0.9413	58.6003	55.1575

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1146 RS Means Crew CARP Prod: US 8.5016 Eff: 100.00 Crew Hrs: 7.53 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Doors, commercial, steel, flush, full panel, hollow core, hollow metal, 18 ga., 3'-0" x 7'-0" x 1-3/4" thick

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z08131130	Doors, commercial, steel, flush, full panel, hollo	1.00	8.00	EA	320.00	107.00	342.40	2,739.20
Z-CARP	Carpenters	1.00	7.53	MH	58.60	100.00	58.60	441.26

Activity: 087120362575 Door hardware, panic device, rim locks, single door, touch bar, narrow style, standard (Unreviewed) Quantity: 8.00 Unit: EA duty, conceal

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	117.20	0.00	117.20	0.00	2,487.75	0.00	0.00	2,604.95
Total	937.60	0.00	937.60	0.00	19,902.00	0.00	0.00	20,839.60

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
117.2000	2.0000	0.5000	58.6000	2.0000	4.0000	0.2500	10,419.8000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
16.0000	0.5000	2.0000	58.6000	117.2000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1146 RS Means Crew CARP Prod: US 4 Eff: 100.00 Crew Hrs: 16.00 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Door hardware, panic device, rim locks, single door, touch bar, narrow style, standard duty, concealed rod, US3

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z08711655	Door hardware, panic device, rim locks, single doo	1.00	8.00	EA	2,325.00	107.00	2,487.75	19,902.00
Z-CARP	Carpenters	1.00	16.00	MH	58.60	100.00	58.60	937.60

Activity: 099113700190 Paints & coatings, exterior doors, flush, both sides, roll & brush, primer + 2 coats, exterior (Unreviewed) Quantity: 8.00 Unit: EA latex

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	79.44	0.00	79.44	0.00	32.64	0.00	0.00	112.08
Total	635.52	0.00	635.52	0.00	261.08	0.00	0.00	896.60

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
79.4400	1.6000	0.6250	49.6500	1.6000	5.0000	0.2000	560.3750

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
12.8000	0.6250	1.6000	49.6500	79.4400

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1199 RS Means Crew PORD Prod: US 5 Eff: 100.00 Crew Hrs: 12.80 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Paints & coatings, exterior doors, flush, both sides, roll & brush, primer + 2 coats, exterior latex, incl. frame & trim

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z09911570	Paints & coatings, exterior doors, flush, both sid	1.00	8.00	EA	30.50	107.00	32.64	261.08
Z-PORD	Painters, Ordinary	1.00	12.80	MH	49.65	100.00	49.65	635.52

Biditem

1018

Exterior Windows

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	112.24	0.00	112.24	0.00	1,348.20	0.00	0.00	1,460.44
Total	112.24	0.00	112.24	0.00	1,348.20	0.00	0.00	1,460.44

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
1.6000	0.6250	1.6000	912.7750	70.1500	70.1500	0.6250

Activity: 089119203370

Wall louvers, galvanized steel, fixed blades, commercial grade, 32"x52"

Quantity: 2.00

Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	56.12	0.00	56.12	0.00	674.10	0.00	0.00	730.22
Total	112.24	0.00	112.24	0.00	1,348.20	0.00	0.00	1,460.44

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
56.1200	0.8000	1.2500	70.1500	0.2000	10.0000	0.1000	7,302.2000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1.6000	1.2500	0.8000	70.1500	56.1200

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1172 RS Means Crew SHEE Prod: US 10 Eff: 100.00 Crew Hrs: 1.60 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Wall louvers, galvanized steel, fixed blades, commercial grade, 48" x 48"

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z08911230	Wall louvers, galvanized steel, fixed blades, comm	1.00	2.00	EA	630.00	107.00	674.10	1,348.20
Z-SHEE	Sheet Metal Workers	1.00	1.60	MH	70.15	100.00	70.15	112.24

Biditem

1019

Roofing System

Takeoff Qty: 1,990.000 SF

Bid Qty: 1,990.000 SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.15	0.00	2.15	0.48	2.94	0.00	0.00	5.57
Total	4,288.13	0.00	4,288.13	945.76	5,855.58	0.00	0.00	11,089.47

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
89.1500	22.3219	0.0448	124.3911	48.1002	48.1002	156.2500

Activity: 075810101100

Roll roofing, asphalt, coated glass fiber base sheet, 5 plies

Quantity: 19.90

Unit: SQ

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	215.48	0.00	215.48	47.53	294.25	0.00	0.00	557.26
Total	4,288.13	0.00	4,288.13	945.76	5,855.58	0.00	0.00	11,089.47

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
263.0095	0.6400	1.5625	410.9524	1.5920	12.5000	0.0800	6,965.7475

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
89.1500	0.2232	4.4799	48.1002	215.4839

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS852 RS Means Crew G1 Prod: US 12.5 Eff: 100.00 Crew Hrs: 12.74 Labor Pcs: 7.00 Equipment Pcs: 3.00

Notes: Roll roofing, asphalt, coated glass fiber base sheet, 3 plies of glass fiber felt (type III), 1 ply mineral surfaced selvage, roSq.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
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2Z07581020	Roll roofing, asphalt, coated glass fiber base she	1.10	21.89	SQ	250.00	107.00	267.50	5,855.58
8Z5433100900	Application Equipment	1.00	12.74	HR	23.68	100.00	23.68	301.63
8Z5433406340	Tar Kettle/Pot	1.00	12.74	HR	27.58	100.00	27.58	351.38
8Z5433407250	Crew Truck	1.00	12.74	HR	22.98	100.00	22.98	292.75
Z-ROFC	Roofers, Composition	4.00	50.94	MH	51.80	100.00	51.80	2,638.69
Z-ROFC-FORO	Roofers, Composition - Foreman	1.00	12.74	MH	51.80	100.00	51.80	659.93
Z-ROHE	Roofers, Helpers (Composition)	2.00	25.47	MH	38.85	100.00	38.85	989.51

Biditem

1020

Interior Partitions

Takeoff Qty: 447.000 SF

Bid Qty: 447.000 SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	8.91	0.00	8.91	0.12	8.12	0.00	0.00	17.15
Total	3,982.88	0.00	3,982.88	52.09	3,631.27	0.00	0.00	7,666.24

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
73.4900	6.0825	0.1644	104.3168	54.1962	54.1962	16.6910

Activity: 040516300250

Grout, concrete masonry unit (CMU) cores, 8" thick, 0.258 C.F./S.F., pumped, excludes blockwork

Quantity: 223.50

Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.50	0.00	2.50	0.23	1.63	0.00	0.00	4.36
Total	559.20	0.00	559.20	52.09	363.50	0.00	0.00	974.79

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.7351	0.0117	85.1072	232.7748	0.3283	680.8575	0.0015	2,969.5442

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
10.5100	21.2655	0.0470	53.2065	2.5020

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS786 RS Means Crew D4Prod: US 680.8511Eff: 100.00Crew Hrs: 2.63Labor Pcs: 4.00Equipment Pcs: 1.00

Notes: Grout, concrete masonry unit (CMU) cores, 8" thick, 0.258 C.F./S.F., pumped, excludes blockwork

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z04051560	Grout, concrete masonry unit (CMU) cores, 8" thick	1.00	223.50	SF	1.52	107.00	1.63	363.50
8Z5433102160	Grout Pump, 50 C.F./hr.	1.00	2.63	HR	19.81	100.00	19.81	52.09
Z-BRHE	Bricklayer Helpers	2.00	5.25	MH	46.65	100.00	46.65	244.91
Z-BRIC	Bricklayers	1.00	2.63	MH	57.50	100.00	57.50	151.23
Z-EQLT	Equipment Operators, Light Equipment	1.00	2.63	MH	62.00	100.00	62.00	163.06

Activity: 040519260060

Masonry reinforcing bars, #5 and #6 reinforcing steel bars, placed vertically, ASTM A615

Quantity: 380.00

Unit: LB

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.69	0.00	0.69	0.00	0.76	0.00	0.00	1.45
Total	262.20	0.00	262.20	0.00	288.69	0.00	0.00	550.89

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.6900	0.0120	83.3333	57.5000	0.5700	666.6667	0.0015	966.4737

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
4.5600	83.3333	0.0120	57.5000	0.6900

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS1152 RS Means Crew BRIC Prod: US 666.6667 Eff: 100.00 Crew Hrs: 4.56 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Masonry reinforcing bars, #5 and #6 reinforcing steel bars, placed vertically, ASTM A615

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z04051960	Masonry reinforcing bars, #5 and #6 reinforcing st	1.00	380.00	LB	0.71	107.00	0.76	288.69
Z-BRIC	Bricklayers	1.00	4.56	MH	57.50	100.00	57.50	262.20

Activity: 040519260700 Masonry reinforcing bars, ladder type steel joint reinforcing, mill standard galvanized, 8" wall, 9 Quantity: 3.60 Unit: CLF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	18.37	0.00	18.37	0.00	19.90	0.00	0.00	38.27
Total	66.13	0.00	66.13	0.00	71.65	0.00	0.00	137.78

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
18.3694	0.3200	3.1250	57.4045	0.1440	25.0000	0.0400	956.8056

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1.1500	3.1304	0.3194	57.5043	18.3694

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1152 RS Means Crew BRIC Prod: US 25 Eff: 100.00 Crew Hrs: 1.15 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Masonry reinforcing bars, ladder type steel joint reinforcing, mill standard galvanized, 8" wall, 9 ga. sides, 9 ga. ties

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z04051995	Masonry reinforcing bars, ladder type steel joint	1.00	3.60	CLF	18.60	107.00	19.90	71.65
Z-BRIC	Bricklayers	1.00	1.15	MH	57.50	100.00	57.50	66.13

Activity: 040523130050 Control joint, PVC, for double wythe 8" minimum wall (Brick/CMU) Quantity: 22.35 Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.16	0.00	1.16	0.00	3.48	0.00	0.00	4.64
Total	25.88	0.00	25.88	0.00	77.72	0.00	0.00	103.60

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1.1579	0.0200	50.0000	57.8971	0.0559	400.0000	0.0025	1,854.1387

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.4500	49.6667	0.0201	57.5111	1.1579

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1152 RS Means Crew BRIC Prod: US 400 Eff: 100.00 Crew Hrs: 0.45 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Control joint, PVC, for double wythe 8" minimum wall (Brick/CMU)

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z04052155	Control joint, PVC, for double wythe 8" minimum wa	1.00	22.35	LF	3.25	107.00	3.48	77.72
Z-BRIC	Bricklayers	1.00	0.45	MH	57.50	100.00	57.51	25.88

Activity: 042210344200 Concrete block partitions, normal weight blocks, 2000 psi, 8" x 8" x 16", tooled joints both sides, Quantity: 447.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	5.69	0.00	5.69	0.00	2.96	0.00	0.00	8.65
Total	2,542.66	0.00	2,542.66	0.00	1,324.86	0.00	0.00	3,867.52

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
5.6883	0.0214	46.7290	265.8074	1.1957	373.8318	0.0027	3,234.4561

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
47.8300	9.3456	0.1070	53.1604	5.6883

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS790 RS Means Crew D8 Prod: US 373.8318 Eff: 100.00 Crew Hrs: 9.57 Labor Pcs: 5.00 Equipment Pcs: 0.00

Notes: Concrete block partitions, normal weight blocks, 2000 psi, 8" x 8" x 16", tooled joints both sides, includes mortar, excludes scS.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z04222305	Concrete block partitions, normal weight blocks, 2	1.00	447.00	SF	2.77	107.00	2.96	1,324.86
Z-BRHE	Bricklayer Helpers	2.00	19.13	MH	46.65	100.00	46.65	892.41
Z-BRIC	Bricklayers	3.00	28.70	MH	57.50	100.00	57.50	1,650.25

Activity: 072113100030 Fiberboard insulation, rigid, for walls, 2" thick, R5.26 Quantity: 480.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.64	0.00	0.64	0.00	2.54	0.00	0.00	3.18
Total	309.41	0.00	309.41	0.00	1,217.23	0.00	0.00	1,526.64

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.6446	0.0110	90.9091	58.6004	0.6600	727.2727	0.0014	2,313.0909

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
5.2800	90.9091	0.0110	58.6004	0.6446

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1146 RS Means Crew CARP Prod: US 727.2727 Eff: 100.00 Crew Hrs: 5.28 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Fiberboard insulation, rigid, for walls, 2" thick, R5.26

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z07211010	Fiberboard insulation, rigid, for walls, 2" thick,	1.00	480.00	SF	2.37	107.00	2.54	1,217.23
Z-CARP	Carpenters	1.00	5.28	MH	58.60	100.00	58.60	309.41

Activity: 072116201320 Blanket insulation, for walls or ceilings, mineral wool batts, 3-1/2" thick, R15 Quantity: 70.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.29	0.00	0.29	0.00	1.57	0.00	0.00	1.87
Total	20.51	0.00	20.51	0.00	110.10	0.00	0.00	130.61

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.2930	0.0050	200.0000	58.6000	0.0438	1,600.0000	0.0006	2,985.3714

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.3500	200.0000	0.0050	58.6000	0.2930

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1146 RS Means Crew CARP Prod: US 1600 Eff: 100.00 Crew Hrs: 0.35 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Blanket insulation, for walls or ceilings, mineral wool batts, 3-1/2" thick, R15

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z07211520	Blanket insulation, for walls or ceilings, mineral	1.00	70.00	SF	1.47	107.00	1.57	110.10
Z-CARP	Carpenters	1.00	0.35	MH	58.60	100.00	58.60	20.51

Activity: 092216132000 Metal stud partition, non-load bearing, galvanized, 10' high, 1-5/8" wide, 25 gauge, 16" OC, include Quantity: 70.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.94	0.00	0.94	0.00	1.02	0.00	0.00	1.95
Total	65.63	0.00	65.63	0.00	71.16	0.00	0.00	136.79

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.9376	0.0160	62.5000	58.5982	0.1400	500.0000	0.0020	977.0714

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1.1200	62.5000	0.0160	58.5982	0.9376

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1146 RS Means Crew CARP Prod: US 500 Eff: 100.00 Crew Hrs: 1.12 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Metal stud partition, non-load bearing, galvanized, 10' high, 1-5/8" wide, 25 gauge, 16" OC, includes top & bottom track

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z09221330	Metal stud partition, non-load bearing, galvanized	1.00	70.00	SF	0.95	107.00	1.02	71.16
Z-CARP	Carpenters	1.00	1.12	MH	58.60	100.00	58.60	65.63

Activity: 092910203600	Gypsum board, for taping & finishing joints, add	Quantity: 140.00	Unit: SF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.47	0.00	0.47	0.00	0.05	0.00	0.00	0.52
Total	65.63	0.00	65.63	0.00	7.49	0.00	0.00	73.12

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.4688	0.0040	250.0000	117.1964	0.0700	2,000.0000	0.0005	1,044.5714

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1.1200	125.0000	0.0080	58.5982	0.4688

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1046 (Mod) RS Means Crew CARP2 Prod: MU 0.008 Eff: 100.00 Crew Hrs: 0.56 Labor Pcs: 2.00 Equipment Pcs: 0.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2ADDLMAT	Additional Materials	1.00	140.00	SF	0.05	107.00	0.05	7.49
Z-CARP	Carpenters	2.00	1.12	MH	58.60	100.00	58.60	65.63

Activity: 092910302200	Gypsum wallboard, on walls, water resistant, 5/8" thick, finish excluded	Quantity: 140.00	Unit: SF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.47	0.00	0.47	0.00	0.71	0.00	0.00	1.18
Total	65.63	0.00	65.63	0.00	98.87	0.00	0.00	164.50

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.4688	0.0080	125.0000	58.5982	0.1400	1,000.0000	0.0010	1,175.0000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1.1200	125.0000	0.0080	58.5982	0.4688

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1146 RS Means Crew CARP Prod: US 1000 Eff: 100.00 Crew Hrs: 1.12 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Gypsum wallboard, on walls, water resistant, 5/8" thick, finish excluded

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z09291280	Gypsum wallboard, on walls, water resistant, 5/8"	1.00	140.00	SF	0.66	107.00	0.71	98.87
Z-CARP	Carpenters	1.00	1.12	MH	58.60	100.00	58.60	65.63

Biditem

1021

Interior Openings

Takeoff Qty: 2.000 OPNG

Bid Qty: 2.000 OPNG

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	237.81	0.00	237.81	0.00	668.38	0.00	0.00	906.19
Total	475.62	0.00	475.62	0.00	1,336.75	0.00	0.00	1,812.37

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
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8.8800	0.2252	4.4400	204.0957	53.5608	53.5608	0.2252
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Activity: 081213131000	Frames, steel, knock down, hollow metal, single, 16 ga., up to 4-7/8" deep, 3'-0" x 7'-0"	Quantity: 2.00	Unit: EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	58.60	0.00	58.60	0.00	237.54	0.00	0.00	296.14
Total	117.20	0.00	117.20	0.00	475.08	0.00	0.00	592.28

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
58.6000	1.0000	1.0000	58.6000	0.2500	8.0000	0.1250	2,369.1200

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
2.0000	1.0000	1.0000	58.6000	58.6000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1146 RS Means Crew CARP Prod: US 8 Eff: 100.00 Crew Hrs: 2.00 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Frames, steel, knock down, hollow metal, single, 16 ga., up to 4-7/8" deep, 3'-0" x 7'-0"

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z08121050	Frames, steel, knock down, hollow metal, single, 1	1.00	2.00	EA	222.00	107.00	237.54	475.08
Z-CARP	Carpenters	1.00	2.00	MH	58.60	100.00	58.60	117.20

Activity: 081313131120	Doors, commercial, steel, flush, full panel, hollow core, hollow metal, 18 ga., 3'-0" x 7'-0" x 1-3/4"	Quantity: 2.00	Unit: EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	55.09	0.00	55.09	0.00	342.40	0.00	0.00	397.49
Total	110.17	0.00	110.17	0.00	684.80	0.00	0.00	794.97

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
55.0850	0.9410	1.0627	58.5388	0.2353	8.5016	0.1176	3,379.2561

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1.8800	1.0638	0.9400	58.6011	55.0850

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1146 RS Means Crew CARP Prod: US 8.5016 Eff: 100.00 Crew Hrs: 1.88 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Doors, commercial, steel, flush, full panel, hollow core, hollow metal, 18 ga., 3'-0" x 7'-0" x 1-3/4" thick

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z08131130	Doors, commercial, steel, flush, full panel, hollo	1.00	2.00	EA	320.00	107.00	342.40	684.80
Z-CARP	Carpenters	1.00	1.88	MH	58.60	100.00	58.60	110.17

Activity: 087120900012	Door hardware, hinges, full mortise, average frequency, steel base, USP, 4-1/2"x 4-1/2"	Quantity: 3.00	Unit: PAIR
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Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Notes: Door hardware, hinges, full mortise, average frequency, steel base, USP, 4-1/2"x 4-1/2"

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z08712650	Door hardware, hinges, full mortise, average frequ	1.00	3.00	PAIR	48.00	107.00	51.36	154.08

Activity: 099123330500	Paints & coatings, interior, alkyd (oil base), flush door w/frame, primer, brushwork, 3' x 7'	Quantity: 2.00	Unit: EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	49.65	0.00	49.65	0.00	3.91	0.00	0.00	53.56
Total	99.30	0.00	99.30	0.00	7.81	0.00	0.00	107.11

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
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49.6500	1.0000	1.0000	49.6500	0.2500	8.0000	0.1250	428.4400
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
2.0000	1.0000	1.0000	49.6500	49.6500			

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1199 RS Means Crew PORD Prod: US 8 Eff: 100.00 Crew Hrs: 2.00 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Paints & coatings, interior, alkyd (oil base), flush door w/frame, primer, brushwork, 3' x 7'

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z09912080	Paints & coatings, interior, alkyd (oil base), flu	1.00	2.00	EA	3.65	107.00	3.91	7.81
Z-PORD	Painters, Ordinary	1.00	2.00	MH	49.65	100.00	49.65	99.30

Activity: 099123331200	Paints & coatings, interior, alkyd (oil base), flush door w/frame, 2 coats, brushwork, 3' x 7'	Quantity: 2.00	Unit: EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	74.48	0.00	74.48	0.00	7.49	0.00	0.00	81.97
Total	148.95	0.00	148.95	0.00	14.98	0.00	0.00	163.93

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
74.4750	1.5000	0.6667	49.6500	0.3750	5.3333	0.1875	437.1467

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
3.0000	0.6667	1.5000	49.6500	74.4750

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1199 RS Means Crew PORD Prod: US 5.3333 Eff: 100.00 Crew Hrs: 3.00 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Paints & coatings, interior, alkyd (oil base), flush door w/frame, 2 coats, brushwork, 3' x 7'

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z09912090	Paints & coatings, interior, alkyd (oil base), flu	1.00	2.00	EA	7.00	107.00	7.49	14.98
Z-PORD	Painters, Ordinary	1.00	3.00	MH	49.65	100.00	49.65	148.95

Biditem

1022

Interior Finishes

Takeoff Qty: 2,306.000 SF

Bid Qty: 2,306.000 SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.98	0.00	2.98	0.11	1.91	0.00	0.00	5.00
Total	6,866.07	0.00	6,866.07	251.21	4,409.69	0.00	0.00	11,526.97

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
136.6100	16.8802	0.0592	84.3787	50.2604	50.2604	20.7942

Activity: 033543100620	Polished concrete floors, processing of interior floors, polishing and edging with diamond/resin mat	Quantity: 1.63	Unit: MSF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	594.01	0.00	594.01	154.12	42.26	0.00	0.00	790.39
Total	968.24	0.00	968.24	251.21	68.89	0.00	0.00	1,288.34

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
748.1288	2.8572	0.3500	261.8363	0.5822	2.7999	0.3572	2,213.0247

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
18.6200	0.0875	11.4233	52.0000	594.0123

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS884 RS Means Crew J4A Prod: US 2.7999 Eff: 100.00 Crew Hrs: 4.66 Labor Pcs: 4.00 Equipment Pcs: 4.00

Notes: Polished concrete floors, processing of interior floors, polishing and edging with diamond/resin matrix, 1500-grit, includes dryM.S.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03351350	Polished concrete floors, processing of interior f	1.00	1.63	MSF	39.50	107.00	42.26	68.89
8Z5433101600	Floor Grinder, 22" Path	1.00	4.66	HR	13.74	100.00	13.74	64.02
8Z5433101700	Floor Edger, 7" Path	1.00	4.66	HR	6.58	100.00	6.58	30.66
8Z5433101750	Vacuum Pick-Up System	1.00	4.66	HR	9.19	100.00	9.19	42.83
8Z5433401900	Floor Auto Scrubber	1.00	4.66	HR	24.40	100.00	24.40	113.70
Z-CEFI	Cement Finishers	2.00	9.31	MH	55.00	100.00	55.00	512.05
Z-CLAB	Common Building Laborers	2.00	9.31	MH	49.00	100.00	49.00	456.19

Activity: 061110420850 Furring, wood, on ceilings, on wood, 1" x 3" Quantity: 50.00 Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.35	0.00	1.35	0.00	0.52	0.00	0.00	1.87
Total	67.39	0.00	67.39	0.00	26.22	0.00	0.00	93.61

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1.3478	0.0230	43.4783	58.6000	0.1438	347.8261	0.0029	651.2000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1.1500	43.4783	0.0230	58.6000	1.3478

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1146 RS Means Crew CARP Prod: US 347.8261 Eff: 100.00 Crew Hrs: 1.15 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Furring, wood, on ceilings, on wood, 1" x 3"

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z06114685	Furring, wood, on ceilings, on wood, 1" x 3"	1.00	50.00	LF	0.49	107.00	0.52	26.22
Z-CARP	Carpenters	1.00	1.15	MH	58.60	100.00	58.60	67.39

Activity: 095113100100 Acoustical ceilings, fiberglass boards, film faced, 2' x 2' or 2' x 4' x 5/8" thick Quantity: 100.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.76	0.00	0.76	0.00	2.88	0.00	0.00	3.64
Total	76.18	0.00	76.18	0.00	287.83	0.00	0.00	364.01

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.7618	0.0130	76.9231	58.6000	0.1625	615.3846	0.0016	2,240.0615

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1.3000	76.9231	0.0130	58.6000	0.7618

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1146 RS Means Crew CARP Prod: US 615.3846 Eff: 100.00 Crew Hrs: 1.30 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Acoustical ceilings, fiberglass boards, film faced, 2' x 2' or 2' x 4' x 5/8" thick

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z09511000	Acoustical ceilings, fiberglass boards, film faced	1.00	100.00	SF	2.69	107.00	2.88	287.83
Z-CARP	Carpenters	1.00	1.30	MH	58.60	100.00	58.60	76.18

Activity: 095323300300 Acoustic ceiling grid, 2' x 2' Quantity: 100.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.70	0.00	0.70	0.00	1.79	0.00	0.00	2.49
Total	70.32	0.00	70.32	0.00	178.69	0.00	0.00	249.01

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.7032	0.0120	83.3333	58.6000	0.1500	666.6667	0.0015	1,660.0667

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1.2000	83.3333	0.0120	58.6000	0.7032

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1146 RS Means Crew CARP Prod: US 666.6667 Eff: 100.00 Crew Hrs: 1.20 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Acoustic ceiling grid, 2' x 2'

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z09531005	Acoustic ceiling grid, 2' x 2'	1.00	100.00	SF	1.67	107.00	1.79	178.69
Z-CARP	Carpenters	1.00	1.20	MH	58.60	100.00	58.60	70.32

Activity: 093113105400 Ceramic tile, walls, interior, thin set, 4-1/4" x 4-1/4" Quantity: 280.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4.19	0.00	4.19	0.00	2.79	0.00	0.00	6.98
Total	1,173.65	0.00	1,173.65	0.00	781.96	0.00	0.00	1,955.61

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
4.1916	0.0420	23.8095	99.8002	1.4700	190.4762	0.0053	1,330.3469

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
23.5200	11.9048	0.0840	49.9001	4.1916

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS788 RS Means Crew D7 Prod: US 190.4762 Eff: 100.00 Crew Hrs: 11.76 Labor Pcs: 2.00 Equipment Pcs: 0.00

Notes: Ceramic tile, walls, interior, thin set, 4-1/4" x 4-1/4"

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z09311145	Ceramic tile, walls, interior, thin set, 4-1/4" x	1.00	280.00	SF	2.61	107.00	2.79	781.96
Z-TILF	Tile Layers	1.00	11.76	MH	55.30	100.00	55.30	650.33
Z-TILH	Tile Layers Helpers	1.00	11.76	MH	44.50	100.00	44.50	523.32

Activity: 099123720280 Paints & coatings, walls & ceilings, interior, concrete, drywall or plaster, latex paint, primer or (Unreviewed) Quantity: 4774.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.15	0.00	0.15	0.00	0.06	0.00	0.00	0.21
Total	710.99	0.00	710.99	0.00	306.49	0.00	0.00	1,017.48

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.1489	0.0030	333.3333	49.6432	1.7903	2,666.6667	0.0004	568.3452

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
14.3200	333.3799	0.0030	49.6501	0.1489

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1199 RS Means Crew PORD Prod: US 2666.6667 Eff: 100.00 Crew Hrs: 14.32 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Paints & coatings, walls & ceilings, interior, concrete, drywall or plaster, latex paint, primer or sealer coat, smooth finish, S.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z09913210	Paints & coatings, walls & ceilings, interior, con	1.00	4,774.00	SF	0.06	107.00	0.06	306.49
Z-PORD	Painters, Ordinary	1.00	14.32	MH	49.65	100.00	49.65	710.99

Activity: 099123720840 Paints & coatings, walls & ceilings, interior, concrete, drywall or plaster, latex paint, 2 coats, s (Unreviewed) Quantity: 4774.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.50	0.00	0.50	0.00	0.39	0.00	0.00	0.88
Total	2,370.29	0.00	2,370.29	0.00	1,838.94	0.00	0.00	4,209.23

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.4965	0.0100	100.0000	49.6500	5.9675	800.0000	0.0013	705.3590
Manhours		Unit/MH	MH/Unit		Total Labor/MH		Base Labor/Unit
47.7400		100.0000	0.0100		49.6500		0.4965

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew:

RS1199

RS Means Crew PORD

Prod: US

800

Eff: 100.00

Crew Hrs: 47.74

Labor Pcs: 1.00

Equipment Pcs: 0.00

Notes: Paints & coatings, walls & ceilings, interior, concrete, drywall or plaster, latex paint, 2 coats, smooth finish, roller

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z09913285	Paints & coatings, walls & ceilings, interior, con	1.00	4,774.00	SF	0.36	107.00	0.39	1,838.94
Z-PORD	Painters, Ordinary	1.00	47.74	MH	49.65	100.00	49.65	2,370.29

Activity: 099123720440	Paints & coatings, walls & ceilings, interior, concrete, drywall or plaster, latex paint, 1 coat, sm	(Unreviewed)	Quantity: 4774.00	Unit: SF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.30	0.00	0.30	0.00	0.19	0.00	0.00	0.49
Total	1,421.98	0.00	1,421.98	0.00	919.47	0.00	0.00	2,341.45

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.2979	0.0060	166.6667	49.6432	3.5805	1,333.3333	0.0008	653.9450

Manhours		Unit/MH	MH/Unit		Total Labor/MH		Base Labor/Unit
28.6400		166.6899	0.0060		49.6501		0.2979

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew:

RS1199

RS Means Crew PORD

Prod: US

1333.3333

Eff: 100.00

Crew Hrs: 28.64

Labor Pcs: 1.00

Equipment Pcs: 0.00

Notes: Paints & coatings, walls & ceilings, interior, concrete, drywall or plaster, latex paint, 1 coat, smooth finish, roller

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z09913245	Paints & coatings, walls & ceilings, interior, con	1.00	4,774.00	SF	0.18	107.00	0.19	919.47
Z-PORD	Painters, Ordinary	1.00	28.64	MH	49.65	100.00	49.65	1,421.98

Activity: 095323301040	Hanging wire, 4' long, 12 gauge	(Unreviewed)	Quantity: 1.00	Unit: CSF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	7.03	0.00	7.03	0.00	1.20	0.00	0.00	8.23
Total	7.03	0.00	7.03	0.00	1.20	0.00	0.00	8.23

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
7.0300	0.1230	8.1301	57.1545	0.0154	65.0407	0.0154	535.2846

Manhours		Unit/MH	MH/Unit		Total Labor/MH		Base Labor/Unit
0.1200		8.3333	0.1200		58.5833		7.0300

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew:

RS1146

RS Means Crew CARP

Prod: US

65.0407

Eff: 100.00

Crew Hrs: 0.12

Labor Pcs: 1.00

Equipment Pcs: 0.00

Notes: Hanging wire, 4' long, 12 gauge

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z09531055	Hanging wire, 4' long, 12 gauge	1.00	1.00	CSF	1.12	107.00	1.20	1.20
Z-CARP	Carpenters	1.00	0.12	MH	58.60	100.00	58.58	7.03

Biditem

1023

Electrical

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.00	0.00	0.00	0.00	0.00	0.00	1,482,328.72	1,482,328.72
Total	0.00	0.00	0.00	0.00	0.00	0.00	1,482,328.72	1,482,328.72

Activity: 16011

Electrical Devices

Quantity: 2306.00

Unit: SF

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Notes: Recptacles, Intrusion Switches, Light Switches

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4ELEC	Electric - Sub	1.00	2,306.00	SF	5.80	100.00	5.80	13,374.80

Activity: 16110

Raceway, Conduits, and Wires

Quantity: 2306.00

Unit: SF

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4ELEC	Electric - Sub	1.00	2,306.00	SF	198.08	100.00	198.08	456,772.48

Activity: 16170

Grounding

Quantity: 608.11

Unit: LF

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4ELEC	Electric - Sub	1.00	608.11	LF	19.43	100.00	19.43	11,815.58

Activity: 16470

Panelboards, Disconnects, ATS, Switchgears, VFDs and Transformers

Quantity: 2306.00

Unit: SF

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4ELEC	Electric - Sub	1.00	2,306.00	SF	366.74	100.00	366.74	845,702.44

Activity: 16671

Interior Lighting

Quantity: 2306.00

Unit: SF

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4ELEC	Electric - Sub	1.00	2,306.00	SF	14.09	100.00	14.09	32,491.54

Activity: 16721

Fire Alarm

Quantity: 2306.00

Unit: SF

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4ELEC	Electric - Sub	1.00	2,306.00	LF	2.77	100.00	2.77	6,387.62

Activity: 17698

Instrumentation

Quantity: 2306.00

Unit: SF

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Notes: Contains all conduit, wire, cable, and junction boxes required for signals and controls

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4ELEC	Electric - Sub	1.00	2,306.00	LF	50.21	100.00	50.21	115,784.26

Biditem

1024

Others

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	598.81	0.00	598.81	0.00	1,271.35	0.00	0.00	1,870.16
Total	598.81	0.00	598.81	0.00	1,271.35	0.00	0.00	1,870.16

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
9.4300	0.1060	9.4300	198.3203	63.5005	63.5005	0.1060

Activity: 313116130200	Chemical termite control, slab and walls, commercial, maximum	Quantity: 1886.00	Unit: SF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.32	0.00	0.32	0.00	0.67	0.00	0.00	0.99
Total	598.81	0.00	598.81	0.00	1,271.35	0.00	0.00	1,870.16

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.3175	0.0050	200.0000	63.5005	1.1788	1,600.0000	0.0006	1,586.5620

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
9.4300	200.0000	0.0050	63.5005	0.3175

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS1144

RS Means Crew SKWK

Prod: US 1600

Eff: 100.00

Crew Hrs: 9.43

Labor Pcs: 1.00

Equipment Pcs: 0.00

Notes: Chemical termite control, slab and walls, commercial, maximum

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31311020	Chemical termite control, slab and walls, commerci	1.00	1,886.00	SF	0.63	107.00	0.67	1,271.35
Z-SKWK	Skilled Workers Average (35 trades)	1.00	9.43	MH	63.50	100.00	63.50	598.81

Biditem

1025

Demolition

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	13,338.17	0.00	13,338.17	9,531.70	0.00	0.00	0.00	22,869.87
Total	13,338.17	0.00	13,338.17	9,531.70	0.00	0.00	0.00	22,869.87

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
248.1800	0.0040	248.1800	92.1503	53.7439	53.7439	0.0252

Activity: 024113304310	Minor site demolition, sidewalks and driveways, 8" thick, remove, excludes hauling	Quantity: 20.00	Unit: CY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	91.03	0.00	91.03	47.59	0.00	0.00	0.00	138.63
Total	1,820.69	0.00	1,820.69	951.88	0.00	0.00	0.00	2,772.57

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
138.6285	0.2424	4.1249	571.8290	0.6061	32.9992	0.0303	4,574.6319

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
33.9400	0.5893	1.6970	53.6444	91.0345

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS460

RS Means Crew B5

Prod: US 32.9992

Eff: 100.00

Crew Hrs: 4.85

Labor Pcs: 7.00

Equipment Pcs: 6.00

Notes: Minor site demolition, slab on grade, mesh reinforced, 8" thick, remove, excludes hauling

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z02411385	Minor site demolition, slab on grade, mesh reinfor	1.00	20.00	CY	0.00	107.00	0.00	0.00
8Z5433204530	Crawler Loader, 3 C.Y.	1.00	4.85	HR	157.21	100.00	157.21	762.47
8Z5433400400	Air Compressor, 250 cfm	1.00	4.85	HR	24.54	100.00	24.53	118.99
8Z5433400930	Breaker, Pavement, 60 lb.	2.00	9.70	HR	4.31	100.00	4.31	41.80
8Z5433401200	50' Air Hoses, 1.5"	2.00	9.70	HR	2.95	100.00	2.95	28.62
Z-CLAB	Common Building Laborers	4.00	19.39	MH	49.00	100.00	49.00	950.11

Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	4.85	MH	49.50	100.00	49.50	240.08
Z-EQMD	Equipment Operators, Medium Equipment	2.00	9.70	MH	65.00	100.00	65.00	630.50

Activity: 024113304320	Minor site demolition, slab on grade, 8" thick, remove, excludes hauling	Quantity: 60.00	Unit: CY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	120.16	0.00	120.16	62.80	0.00	0.00	0.00	182.96
Total	7,209.60	0.00	7,209.60	3,768.25	0.00	0.00	0.00	10,977.85

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
182.9642	0.3200	3.1250	571.7630	2.4000	25.0000	0.0400	4,574.1042

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
134.4000	0.4464	2.2400	53.6429	120.1600

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS460 RS Means Crew B5 Prod: US 25 Eff: 100.00 Crew Hrs: 19.20 Labor Pcs: 7.00 Equipment Pcs: 6.00

Notes: Minor site demolition, slab on grade, rod reinforced, 8" thick, remove, excludes hauling

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z02411390	Minor site demolition, slab on grade, rod reinforc	1.00	60.00	CY	0.00	107.00	0.00	0.00
8Z5433204530	Crawler Loader, 3 C.Y.	1.00	19.20	HR	157.21	100.00	157.21	3,018.43
8Z5433400400	Air Compressor, 250 cfm	1.00	19.20	HR	24.54	100.00	24.53	471.07
8Z5433400930	Breaker, Pavement, 60 lb.	2.00	38.40	HR	4.31	100.00	4.31	165.47
8Z5433401200	50' Air Hoses, 1.5"	2.00	38.40	HR	2.95	100.00	2.95	113.28
Z-CLAB	Common Building Laborers	4.00	76.80	MH	49.00	100.00	49.00	3,763.20
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	19.20	MH	49.50	100.00	49.50	950.40
Z-EQMD	Equipment Operators, Medium Equipment	2.00	38.40	MH	65.00	100.00	65.00	2,496.00

Activity: 024116130650	Building demolition, small buildings or single buildings, masonry, elevated slabs, includes 20 mile	Quantity: 25650.00	Unit: CF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.16	0.00	0.16	0.18	0.00	0.00	0.00	0.34
Total	4,148.18	0.00	4,148.18	4,554.30	0.00	0.00	0.00	8,702.48

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.3393	0.0005	2,000.0000	678.5559	1.6031	16,000.0000	0.0001	5,428.4476

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
76.9600	333.2900	0.0030	53.9005	0.1617

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS328 RS Means Crew B3 Prod: US 16000 Eff: 100.00 Crew Hrs: 12.83 Labor Pcs: 6.00 Equipment Pcs: 3.00

Notes: Building demolition, small buildings or single buildings, masonry, elevated slabs, includes 20 mile haul, excludes salvage, founC.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z02413800	Building demolition, small buildings or single bui	1.00	25,650.00	CF	0.00	107.00	0.00	0.00
8Z5433204530	Crawler Loader, 3 C.Y.	1.00	12.83	HR	157.21	100.00	157.21	2,017.00
8Z5433205300	Dump Truck, 12 C.Y., 400 H.P.	2.00	25.65	HR	98.92	100.00	98.92	2,537.30
Z-CLAB	Common Building Laborers	2.00	25.65	MH	49.00	100.00	49.00	1,256.85
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	12.83	MH	49.50	100.00	49.50	635.09
Z-EQMD	Equipment Operators, Medium Equipment	1.00	12.83	MH	65.00	100.00	65.00	833.95
Z-TRHV	Truck Drivers, Heavy	2.00	25.65	MH	55.45	100.00	55.45	1,422.29

Activity: 312323204694	Cycle hauling(wait, load, travel, unload or dump & return) time per cycle, excavated or borrow, loos	Quantity: 80.00	Unit: LCY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.00	0.00	2.00	3.22	0.00	0.00	0.00	5.21
Total	159.70	0.00	159.70	257.27	0.00	0.00	0.00	416.97

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
5.2121	0.0360	27.7778	144.7813	0.3600	222.2222	0.0045	1,158.2500

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
2.8800	27.7778	0.0360	55.4514	1.9963

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS362 RS Means Crew B34D Prod: US 222.2222 Eff: 100.00 Crew Hrs: 2.88 Labor Pcs: 1.00 Equipment Pcs: 2.00

Notes: Cycle hauling(wait, load, travel, unload or dump & return) time per cycle, excavated or borrow, loose cubic yards, 30 min load/wL.C.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31238530	Cycle hauling(wait, load, travel, unload or dump &	1.00	80.00	LCY	0.00	107.00	0.00	0.00
8Z5433205400	Dump Trailer, 20 C.Y.	1.00	2.88	HR	21.08	100.00	21.08	60.72
8Z5433407500	Truck Tractor, 6x4, 380 H.P.	1.00	2.88	HR	68.25	100.00	68.25	196.55
Z-TRHV	Truck Drivers, Heavy	1.00	2.88	MH	55.45	100.00	55.45	159.70

Biditem

1026

Mechanical

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

Biditem - Parent

11

Generator and Fuel Storage Tank System Replacement

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	216,121.04	0.00	216,121.04	21,518.56	870,402.20	0.00	96,131.00	1,204,172.80
Total	216,121.04	0.00	216,121.04	21,518.56	870,402.20	0.00	96,131.00	1,204,172.80

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
3,046.0000	0.0003	3,046.0000	395.3292	70.9524	70.9524	0.0000

Subtotal

Pump Station 28 Items

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Misc 1	Misc 2	Misc 3	Total
Total	2,389,304.54	17,354.34	2,406,658.88	2,087,466.65	8,853,316.67	15,921.60	3,484,545.10	0.00	0.00	0.00	16,847,908.90

Subtotal

Force Main Items

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Misc 1	Misc 2	Misc 3	Total
Total	384,637.30	0.00	384,637.30	213,177.51	692,844.89	0.00	30,000.00	0.00	0.00	0.00	1,320,659.70

Biditem

1101

Removal of Existing Generator & Fuel Tank

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2,460.00	0.00	2,460.00	277.19	0.00	0.00	0.00	2,737.19
Total	2,460.00	0.00	2,460.00	277.19	0.00	0.00	0.00	2,737.19

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
48.0000	0.0208	48.0000	57.0248	51.2500	51.2500	0.0114

Activity: 026510300110	Removal of petroleum storage tanks and load onto trailer, 5,000 gals	Quantity: 1.00	Unit: EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2,460.00	0.00	2,460.00	277.19	0.00	0.00	0.00	2,737.19
Total	2,460.00	0.00	2,460.00	277.19	0.00	0.00	0.00	2,737.19

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2,737.1900	8.0000	0.1250	342.1488	1.0000	1.0000	1.0000	2,737.1900

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
48.0000	0.0208	48.0000	51.2500	2,460.0000

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS228

RS Means Crew B14

Prod: US 1

Eff: 100.00

Crew Hrs: 8.00

Labor Pcs: 6.00

Equipment Pcs: 1.00

Notes: Removal of underground storage tanks, petroleum storage tanks, non-leaking, excavate and load onto trailer, 3,000 - 5,000 gallonEa.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8Z5433200450	Backhoe Loader, 48 H.P.	1.00	8.00	HR	34.65	100.00	34.65	277.19
Z-CLAB	Common Building Laborers	4.00	32.00	MH	49.00	100.00	49.00	1,568.00
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	8.00	MH	49.50	100.00	49.50	396.00
Z-EQLT	Equipment Operators, Light Equipment	1.00	8.00	MH	62.00	100.00	62.00	496.00

Biditem

Furnish & Install New Generator & Fuel Tank

1102

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	29,224.40	0.00	29,224.40	21,241.37	577,800.00	0.00	0.00	628,265.77
Total	29,224.40	0.00	29,224.40	21,241.37	577,800.00	0.00	0.00	628,265.77

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
432.0000	0.0023	432.0000	1,454.3189	67.6491	67.6491	0.0139

Activity: 231323163350	Storage tank, horizontal, steel, above ground, double wall, 5,000 gallon, incl.cradles, coating & fi	(Unreviewed)	Quantity: 1.00	Unit: EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	13,358.40	0.00	13,358.40	9,093.25	107,000.00	0.00	0.00	129,451.65
Total	13,358.40	0.00	13,358.40	9,093.25	107,000.00	0.00	0.00	129,451.65

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
22,451.6500	32.0000	0.0313	701.6141	4.0000	0.2500	4.0000	32,362.9125

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
192.0000	0.0052	192.0000	69.5750	13,358.4000

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS982

(Mod) RS Means Crew Q7

Prod: US 0.25

Eff: 100.00

Crew Hrs: 32.00

Labor Pcs: 6.00

Equipment Pcs: 1.00

Notes: Need to add Robert's fuel piping cost, secondary containment

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
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2Z23131555	Storage tank, horizontal, steel, above ground, dou	1.00	1.00	EA	100,000.00	107.00	107,000.00	107,000.00
8Z5433602501	Hyd. Crane, 25 Ton (Daily)	1.00	32.00	HR	284.16	100.00	284.16	9,093.25
Z-EQHV	Equipment Operators, Crane or Shovel	1.00	32.00	MH	68.85	100.00	68.85	2,203.20
Z-EQOL	Equipment Operators, Oilers	1.00	32.00	MH	58.40	100.00	58.40	1,868.80
Z-STPI	Steamfitters or Pipefitters	2.00	64.00	MH	72.55	100.00	72.55	4,643.20
Z-STPI-APPR	Steamfitters or Pipefitters - Apprentice	1.00	32.00	MH	72.55	100.00	72.55	2,321.60
Z-STPI-FORI	Steamfitters or Pipefitters - Foreman	1.00	32.00	MH	72.55	100.00	72.55	2,321.60

Activity: 263213133270	Generator set, KOHLER Model KD1250-A (1250kW/1562kVA) with a Sound Level 2 Aluminum Enclosure	(Unreviewed)	Quantity: 1.00	Unit: EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	15,866.00	0.00	15,866.00	12,148.12	470,800.00	0.00	0.00	498,814.12
Total	15,866.00	0.00	15,866.00	12,148.12	470,800.00	0.00	0.00	498,814.12

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
28,014.1200	40.0000	0.0250	700.3530	5.0000	0.2000	5.0000	99,762.8240

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
240.0000	0.0042	240.0000	66.1083	15,866.0000

Calendar: 508	Five - 8 hr shifts	Hrs/Shift: 8	WC:	Code not found.		
Crew: RS994	(Mod) RS Means Crew R13	Prod: US 0.2	Eff: 100.00	Crew Hrs: 40.00	Labor Pcs: 6.00	Equipment Pcs: 1.00

Notes: KOHLER Model KD1250-A (1250kW/1562kVA) with a Sound Level 2 Aluminum Enclosure

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z26321105	Generator set, diesel, 3 phase 4 wire, 277/480 V,	1.00	1.00	EA	440,000.00	107.00	470,800.00	470,800.00
8Z5433602550	Hydraulic Crane, 33 Ton	1.00	40.00	HR	303.70	100.00	303.70	12,148.12
Z-ELEC	Electricians	3.00	120.00	MH	67.35	100.00	67.35	8,082.00
Z-ELEC-FORI	Electricians - Foreman	1.00	40.00	MH	67.35	100.00	67.35	2,694.00
Z-EQHV	Equipment Operators, Crane or Shovel	1.00	40.00	MH	68.85	100.00	68.85	2,754.00
Z-EQOL	Equipment Operators, Oilers	1.00	40.00	MH	58.40	100.00	58.40	2,336.00

Biditem

1103

Fuel Piping

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	62,899.92	0.00	62,899.92	0.00	74,122.11	0.00	19,450.00	156,472.03
Total	62,899.92	0.00	62,899.92	0.00	74,122.11	0.00	19,450.00	156,472.03

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
878.0000	0.0011	878.0000	178.2142	71.6400	71.6400	2.0000

Activity: 231113100080	Fuel Piping, includes hangers/supports, flushing, testing, GenSet Silence and Support	(Unreviewed)	Quantity: 1.00	Unit: EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	62,899.92	0.00	62,899.92	0.00	74,122.11	0.00	19,450.00	156,472.03
Total	62,899.92	0.00	62,899.92	0.00	74,122.11	0.00	19,450.00	156,472.03

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
62,899.9200	0.5000	2.0000	125,799.8400	0.0625	16.0000	0.0625	2,503,552.4800

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
878.0000	0.0011	878.0000	71.6400	62,899.9200

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS1178 (Mod) RS Means Crew STPIProd: US 16Eff: 100.00Crew Hrs: 0.50Labor Pcs: 1756.00Equipment Pcs: 0.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z23111010	Fuel Piping- Materials	1.00	1.00	LS	69,273.00	107.00	74,122.11	74,122.11
4FUELSUB	Fuel Syst Sub	1.00	1.00	LS	19,450.00	100.00	19,450.00	19,450.00
Z-STPI	Steamfitters or Pipefitters	1,756.00	878.00	MH	71.64	100.00	71.64	62,899.92

BiditemHVAC

1104

Takeoff Qty: 1.000 LSBid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	91,430.40	0.00	91,430.40	0.00	182,112.93	0.00	67,506.00	341,049.33
Total	91,430.40	0.00	91,430.40	0.00	182,112.93	0.00	67,506.00	341,049.33

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
1,280.0000	0.0008	1,280.0000	266.4448	71.4300	71.4300	0.0031

Activity: 237413103100HVAC(Unreviewed)Quantity: 1.00Unit: LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	91,430.40	0.00	91,430.40	0.00	182,112.93	0.00	67,506.00	341,049.33
Total	91,430.40	0.00	91,430.40	0.00	182,112.93	0.00	67,506.00	341,049.33

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
91,430.4000	320.0000	0.0031	285.7200	40.0000	0.0250	40.0000	8,526.2333

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1,280.0000	0.0008	1,280.0000	71.4300	91,430.4000

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS980 (Mod) RS Means Crew Q6Prod: US 0.025Eff: 100.00Crew Hrs: 320.00Labor Pcs: 4.00Equipment Pcs: 0.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z23741000	HVAC, AHU, Condensing Unit, Dampers, Louvers	1.00	1.00	LS	170,199.00	107.00	182,112.93	182,112.93
4HVACSUB	HVAC Sub - Sheetmetal	1.00	1.00	LS	67,506.00	100.00	67,506.00	67,506.00
Z-STPI	Steamfitters or Pipefitters	4.00	1,280.00	MH	71.43	100.00	71.43	91,430.40

BiditemPlumbing

1105

Takeoff Qty: 1.000 LSBid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	30,106.32	0.00	30,106.32	0.00	36,367.16	0.00	9,175.00	75,648.48
Total	30,106.32	0.00	30,106.32	0.00	36,367.16	0.00	9,175.00	75,648.48

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
408.0000	0.0025	408.0000	185.4129	73.7900	73.7900	0.0074

Activity: 221319131280Sanitary Piping and Domestic Water(Unreviewed)Quantity: 1.00Unit: LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	30,106.32	0.00	30,106.32	0.00	36,367.16	0.00	9,175.00	75,648.48
Total	30,106.32	0.00	30,106.32	0.00	36,367.16	0.00	9,175.00	75,648.48

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
30,106.3200	136.0000	0.0074	221.3700	17.0000	0.0588	17.0000	4,449.9106

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
408.0000	0.0025	408.0000	73.7900	30,106.3200

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS934 (Mod) RS Means Crew Q1Prod: US 0.0588Eff: 100.00Crew Hrs: 136.00Labor Pcs: 3.00Equipment Pcs: 0.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z22134810	Sanitary and Potable Water Materials	1.00	1.00	EA	33,988.00	107.00	36,367.16	36,367.16
4SUBPLUMB	Plumbing Sub	1.00	1.00	LS	9,175.00	100.00	9,175.00	9,175.00
Z-PLUM	Plumbers	2.00	272.00	MH	73.79	100.00	73.79	20,070.88
Z-PLUM-APPR	Plumbers - Apprentice	1.00	136.00	MH	73.79	100.00	73.79	10,035.44

Biditem - ParentPaving, Grading and Drainage Site Work

12Takeoff Qty: 1.000 LSBid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	8,015.68	0.00	8,015.68	5,248.47	6,948.30	0.00	17,281.04	37,493.49
Total	8,015.68	0.00	8,015.68	5,248.47	6,948.30	0.00	17,281.04	37,493.49

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
142.3700	0.0070	142.3700	263.3525	56.3017	56.3017	0.0000

Subtotal

Pump Station 28 Items

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Misc 1	Misc 2	Misc 3	Total
Total	2,389,304.54	17,354.34	2,406,658.88	2,087,466.65	8,853,316.67	15,921.60	3,484,545.10	0.00	0.00	0.00	16,847,908.90

Subtotal

Force Main Items

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Misc 1	Misc 2	Misc 3	Total
Total	384,637.30	0.00	384,637.30	213,177.51	692,844.89	0.00	30,000.00	0.00	0.00	0.00	1,320,659.70

BiditemPaving

1201Takeoff Qty: 1,252.000 SFBid Qty: 1,252.000 SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.17	0.00	2.17	0.00	3.16	0.00	0.00	5.32
Total	2,713.79	0.00	2,713.79	0.00	3,951.91	0.00	0.00	6,665.70

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
50.0700	25.0050	0.0400	133.1276	54.1999	54.1999	75.0006

Activity: 320610100310Sidewalks, driveways, concrete, cast-in-place, 4"thick, with 6 x 6 - W1.4 x W1.4 mesh (Unreviewed)Quantity: 1252.00Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.17	0.00	2.17	0.00	3.16	0.00	0.00	5.32
Total	2,713.79	0.00	2,713.79	0.00	3,951.91	0.00	0.00	6,665.70

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.1676	0.0133	75.0006	162.5686	2.0867	600.0048	0.0017	3,194.4504

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
50.0700	25.0050	0.0400	54.1999	2.1676

Crew:RS306RS Means Crew B24

Prod: US600.0048

Eff: 100.00

Crew Hrs: 16.69

Labor Pcs: 3.00

Equipment Pcs: 0.00

Notes: Sidewalks, driveways, and patios, sidewalk, concrete, cast-in-place with 6 x 6 - W1.4 x W1.4 mesh, broomed finish, 3,000 psi, 4"S.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32061030	Sidewalks, driveways, and patios, sidewalk, concre	1.00	1,251.99	SF	2.95	107.00	3.16	3,951.91
Z-CARP	Carpenters	1.00	16.69	MH	58.60	100.00	58.60	978.03
Z-CEFI	Cement Finishers	1.00	16.69	MH	55.00	100.00	55.00	917.95
Z-CLAB	Common Building Laborers	1.00	16.69	MH	49.00	100.00	49.00	817.81

Biditem

1202

Exterior Equipment Foundation, 18" thick

Takeoff Qty:196.000 SF

Bid Qty:196.000 SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	6.48	0.00	6.48	0.38	15.29	0.00	0.00	22.14
Total	1,270.27	0.00	1,270.27	73.73	2,996.39	0.00	0.00	4,340.39

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
22.1100	8.8648	0.1128	196.3089	57.4523	57.4523	16.7695

Activity:031113653050

C.I.P. concrete forms, slab on grade, edge, wood, 7" to 12" high, 4 use, includes erecting, bracing,

(Unreviewed)

Quantity:99.00

Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4.16	0.00	4.16	0.00	1.55	0.00	0.00	5.71
Total	411.97	0.00	411.97	0.00	153.60	0.00	0.00	565.57

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
4.1613	0.0185	54.0482	224.9113	0.2290	432.3852	0.0023	2,470.1425

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
7.3300	13.5061	0.0740	56.2033	4.1613

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew:RS660RS Means Crew C1

Prod: US432.3852

Eff: 100.00

Crew Hrs: 1.83

Labor Pcs: 4.00

Equipment Pcs: 0.00

Notes: C.I.P. concrete forms, slab on grade, edge, wood, 7" to 12" high, 4 use, includes erecting, bracing, stripping and cleaning

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03112190	C.I.P. concrete forms, slab on grade, edge, wood,	1.00	99.00	SF	1.45	107.00	1.55	153.60
Z-CARP	Carpenters	3.00	5.50	MH	58.60	100.00	58.60	322.30
Z-CLAB	Common Building Laborers	1.00	1.83	MH	49.00	100.00	49.00	89.67

Activity:031516302000

Expansion joint, premolded, bituminous fiber, 1/2" x 6"

(Unreviewed)

Quantity:29.50

Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.23	0.00	1.23	0.00	0.48	0.00	0.00	1.71
Total	36.33	0.00	36.33	0.00	14.20	0.00	0.00	50.53

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1.2315	0.0210	47.6190	58.6441	0.0774	380.9524	0.0026	652.5262

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.6200	47.5806	0.0210	58.5968	1.2315

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew:RS1146RS Means Crew CARP

Prod: US380.9524

Eff: 100.00

Crew Hrs: 0.62

Labor Pcs: 1.00

Equipment Pcs: 0.00

Notes: Expansion joint, premolded, bituminous fiber, 1/2" x 6"

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03152440	Expansion joint, premolded, bituminous fiber, 1/2"	1.00	29.50	LF	0.45	107.00	0.48	14.20
Z-CARP	Carpenters	1.00	0.62	MH	58.60	100.00	58.60	36.33

Activity: 032111600602	Reinforcing steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, ex	(Unreviewed)	Quantity: 825.00	Unit: LB
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.52	0.00	0.52	0.00	0.76	0.00	0.00	1.28
Total	426.03	0.00	426.03	0.00	626.75	0.00	0.00	1,052.78

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.5164	0.0080	125.0000	64.5500	0.8250	1,000.0000	0.0010	1,276.0970

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
6.6000	125.0000	0.0080	64.5500	0.5164

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1150 RS Means Crew RODM Prod: US 1000 Eff: 100.00 Crew Hrs: 6.60 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Reinforcing steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03212045	Reinforcing steel, in place, slab on grade, #3 to	1.00	825.00	LB	0.71	107.00	0.76	626.75
Z-RODM	Rodmen (Reinforcing)	1.00	6.60	MH	64.55	100.00	64.55	426.03

Activity: 033113350300	Structural concrete, ready mix, heavyweight, 4000 psi, includes local aggregate, sand, Portland ceme	(Unreviewed)	Quantity: 11.00	Unit: CY
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Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Notes: Structural concrete, ready mix, heavyweight, 4000 psi, includes local aggregate, sand, Portland cement (Type I) and water, delivC.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03311095	Structural concrete, ready mix, heavyweight, 4000	1.00	11.00	CY	183.00	107.00	195.81	2,153.91

Activity: 033113704600	Structural concrete, placing, slab on grade, direct chute, over 6" thick, includes leveling (strike	(Unreviewed)	Quantity: 11.00	Unit: CY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	14.52	0.00	14.52	0.36	0.00	0.00	0.00	14.88
Total	159.76	0.00	159.76	3.97	0.00	0.00	0.00	163.73

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
14.8845	0.0485	20.6224	306.9554	0.0667	164.9794	0.0061	2,455.6430

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
3.1900	3.4483	0.2900	50.0815	14.5236

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS752 RS Means Crew C6 Prod: US 164.9794 Eff: 100.00 Crew Hrs: 0.53 Labor Pcs: 6.00 Equipment Pcs: 2.00

Notes: Structural concrete, placing, slab on grade, direct chute, over 6" thick, includes leveling (strike off) & consolidation, excludC.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03311530	Structural concrete, placing, slab on grade, direc	1.00	11.00	CY	0.00	107.00	0.00	0.00
8Z5433103000	Gas Engine Vibrator	2.00	1.07	HR	3.71	100.00	3.71	3.97
Z-CEFI	Cement Finishers	1.00	0.53	MH	55.00	100.00	55.00	29.15
Z-CLAB	Common Building Laborers	4.00	2.13	MH	49.00	100.00	49.00	104.37

Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	0.53	MH	49.50	100.00	49.51	26.24
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Activity: 033513300250	Concrete finishing, specified Random Access Floors ACI Classes 1, 2, 3 & 4, forComposite Overall Flo	(Unreviewed)	Quantity: 196.00	Unit: SF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.74	0.00	0.74	0.05	0.00	0.00	0.00	0.79
Total	145.24	0.00	145.24	9.74	0.00	0.00	0.00	154.98

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.7907	0.0047	214.3013	169.4511	0.1143	1,714.4107	0.0006	1,355.6090

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
2.7400	71.5328	0.0140	53.0073	0.7410

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS666 RS Means Crew C10C Prod: US 1714.4107 Eff: 100.00 Crew Hrs: 0.91 Labor Pcs: 3.00 Equipment Pcs: 1.00

Notes: Concrete finishing, specified Random Access Floors ACI Classes 1, 2, 3 & 4, forComposite Overall Floor Flatness & Levelness to FS.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03351020	Concrete finishing, specified Random Access Floors	1.00	196.00	SF	0.00	107.00	0.00	0.00
8Z5433101400	Trowel, 48" Walk-Behind	1.00	0.91	HR	10.70	100.00	10.70	9.74
Z-CEFI	Cement Finishers	2.00	1.83	MH	55.00	100.00	55.00	100.65
Z-CLAB	Common Building Laborers	1.00	0.91	MH	49.00	100.00	49.00	44.59

Activity: 033923130300	Concrete surface treatment, curing, sprayed membrane compound	(Unreviewed)	Quantity: 1.96	Unit: CSF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	8.25	0.00	8.25	0.00	17.12	0.00	0.00	25.37
Total	16.17	0.00	16.17	0.00	33.56	0.00	0.00	49.73

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
8.2500	0.1680	5.9520	49.1042	0.0412	47.6162	0.0210	1,208.1385

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.3300	5.9394	0.1684	49.0000	8.2500

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1140 RS Means Crew CLAB Prod: US 47.6162 Eff: 100.00 Crew Hrs: 0.33 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Concrete surface treatment, curing, sprayed membrane compound

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03391015	Concrete surface treatment, curing, sprayed membra	1.00	1.96	CSF	16.00	107.00	17.12	33.56
Z-CLAB	Common Building Laborers	1.00	0.33	MH	49.00	100.00	49.00	16.17

Activity: 072613100900	Vapor retarders, building paper, polyethylene vapor barrier, standard, 6 mil (.006" thick), 9' x 400	(Unreviewed)	Quantity: 1.96	Unit: SQ
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	12.56	0.00	12.56	0.00	7.33	0.00	0.00	19.89
Total	24.61	0.00	24.61	0.00	14.37	0.00	0.00	38.98

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
12.5561	0.2160	4.6292	58.1247	0.0529	37.0335	0.0270	736.5139

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.4200	4.6667	0.2143	58.5952	12.5561

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew:RS1146RS Means Crew CARPProd: US37.0335Eff: 100.00Crew Hrs: 0.42Labor Pcs: 1.00Equipment Pcs: 0.00

Notes: Vapor retarders, building paper, polyethylene vapor barrier, standard, 6 mil (.006" thick), 9' x 400' roll

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z07261030	Vapor retarders, building paper, polyethylene vapo	1.00	1.96	SQ	6.85	107.00	7.33	14.37
Z-CARP	Carpenters	1.00	0.42	MH	58.60	100.00	58.60	24.61

Activity: 312216100012Fine grading, finish grading, small area, to be paved with grader(Unreviewed)Quantity: 21.80Unit: SY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.30	0.00	2.30	2.75	0.00	0.00	0.00	5.05
Total	50.16	0.00	50.16	60.02	0.00	0.00	0.00	110.18

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
5.0541	0.0200	50.0000	252.7064	0.0545	400.0000	0.0025	2,021.6514

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.8800	24.7727	0.0404	57.0000	2.3009

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew:RS150RS Means Crew B11LProd: US400Eff: 100.00Crew Hrs: 0.44Labor Pcs: 2.00Equipment Pcs: 1.00

Notes: Fine grading, finish grading, small area, to be paved with grader

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31221085	Fine grading, finish grading, small area, to be pa	1.00	21.80	SY	0.00	107.00	0.00	0.00
8Z5433201910	Grader, 30,000 Lbs.	1.00	0.44	HR	136.40	100.00	136.41	60.02
Z-CLAB	Common Building Laborers	1.00	0.44	MH	49.00	100.00	49.00	21.56
Z-EQMD	Equipment Operators, Medium Equipment	1.00	0.44	MH	65.00	100.00	65.00	28.60

Biditem

1203

Clearing & Grubbing

Takeoff Qty: 1,865.000 SY

Bid Qty: 1,865.000 SY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.16	0.00	2.16	2.77	0.00	0.00	0.00	4.94
Total	4,031.62	0.00	4,031.62	5,174.74	0.00	0.00	0.00	9,206.36

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
70.1900	26.5707	0.0376	131.1634	57.4387	57.4387	107.0510

Activity: 311110100160Clearing & grubbing, brush, including stumpsQuantity: .40Unit: ACRE

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2,426.03	0.00	2,426.03	4,772.28	0.00	0.00	0.00	7,198.30
Total	970.41	0.00	970.41	1,908.91	0.00	0.00	0.00	2,879.32

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
7,198.3000	13.7930	0.0725	521.8807	0.6897	0.5800	1.7241	4,175.0453

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
16.5500	0.0242	41.3750	58.6350	2,426.0250

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew:RS330RS Means Crew B30Prod: US0.58Eff: 100.00Crew Hrs: 5.52Labor Pcs: 3.00Equipment Pcs: 3.00

Notes: Clearing & grubbing, brush, including stumps

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31111010	Clearing & grubbing, brush, including stumps	1.00	0.40	ACRE	0.00	107.00	0.00	0.00

8Z5433200200	Hyd. Excavator, 1.5 C.Y.	1.00	5.52	HR	148.16	100.00	148.16	817.82
8Z5433205300	Dump Truck, 12 C.Y., 400 H.P.	2.00	11.03	HR	98.92	100.00	98.92	1,091.09
Z-EQMD	Equipment Operators, Medium Equipment	1.00	5.52	MH	65.00	100.00	65.00	358.80
Z-TRHV	Truck Drivers, Heavy	2.00	11.03	MH	55.45	100.00	55.45	611.61

Activity: 312213200200

Rough grading sites, open, 10,000-20,000 S.F., grader

Quantity: 1.00

Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	506.16	0.00	506.16	605.61	0.00	0.00	0.00	1,111.77
Total	506.16	0.00	506.16	605.61	0.00	0.00	0.00	1,111.77

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1,111.7700	4.4444	0.2250	250.1508	0.5556	1.8000	0.5556	2,001.2060

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
8.8800	0.1126	8.8800	57.0000	506.1600

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS150

RS Means Crew B11L

Prod: US 1.8

Eff: 100.00

Crew Hrs: 4.44

Labor Pcs: 2.00

Equipment Pcs: 1.00

Notes: Rough grading sites, open, 10,000-20,000 S.F., grader

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31221035	Rough grading sites, open, 10,000-20,000 S.F., gra	1.00	1.00	EA	0.00	107.00	0.00	0.00
8Z5433201910	Grader, 30,000 Lbs.	1.00	4.44	HR	136.40	100.00	136.40	605.61
Z-CLAB	Common Building Laborers	1.00	4.44	MH	49.00	100.00	49.00	217.56
Z-EQMD	Equipment Operators, Medium Equipment	1.00	4.44	MH	65.00	100.00	65.00	288.60

Activity: 312216101050

Fine grading, fine grade for small irregular areas, to 15,000 S.Y.

Quantity: 1865.00

Unit: SY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.37	0.00	1.37	1.43	0.00	0.00	0.00	2.80
Total	2,555.05	0.00	2,555.05	2,660.22	0.00	0.00	0.00	5,215.27

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.7964	0.0040	250.0000	699.0979	0.9325	2,000.0000	0.0005	5,592.7828

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
44.7600	41.6667	0.0240	57.0833	1.3700

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS338

RS Means Crew B32C

Prod: US 2000

Eff: 100.00

Crew Hrs: 7.46

Labor Pcs: 6.00

Equipment Pcs: 3.00

Notes: Fine grading, fine grade for small irregular areas, to 15,000 S.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31221105	Fine grading, fine grade for small irregular areas	1.00	1,865.00	SY	0.00	107.00	0.00	0.00
8Z5433201910	Grader, 30,000 Lbs.	1.00	7.46	HR	136.40	100.00	136.40	1,017.54
8Z5433203050	Tandem Roller, 10 Ton	1.00	7.46	HR	47.40	100.00	47.40	353.63
8Z5433204260	Dozer, 200 H.P.	1.00	7.46	HR	172.80	100.00	172.79	1,289.05
Z-CLAB	Common Building Laborers	2.00	14.92	MH	49.00	100.00	49.00	731.08
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	7.46	MH	49.50	100.00	49.50	369.27
Z-EQMD	Equipment Operators, Medium Equipment	3.00	22.38	MH	65.00	100.00	65.00	1,454.70

Biditem

1204

Temporary Fence

Takeoff Qty: 1,110.000 LF

Bid Qty: 1,110.000 LF

Activity: 323111107800	6' x 10' Inline Chain Link Fence Panels, incl. privacy screen, base for panels, locks, clamps, sandb	Quantity: 111.00	Unit: EA
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Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4FENCE	Fencing - Sub	1.00	1,110.00	LF	14.55	107.00	15.57	17,281.04

Biditem - Parent

13

Landscape Improvements

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	47,895.29	0.00	47,895.29	10,415.40	48,645.21	0.00	0.00	106,955.90
Total	47,895.29	0.00	47,895.29	10,415.40	48,645.21	0.00	0.00	106,955.90

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
941.1400	0.0011	941.1400	113.6450	50.8907	50.8907	0.0000

Subtotal

Pump Station 28 Items

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Misc 1	Misc 2	Misc 3	Total
Total	2,389,304.54	17,354.34	2,406,658.88	2,087,466.65	8,853,316.67	15,921.60	3,484,545.10	0.00	0.00	0.00	16,847,908.90

Subtotal

Force Main Items

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Misc 1	Misc 2	Misc 3	Total
Total	384,637.30	0.00	384,637.30	213,177.51	692,844.89	0.00	30,000.00	0.00	0.00	0.00	1,320,659.70

Biditem

1301

Tree Removal

Takeoff Qty: 3.000 EA

Bid Qty: 3.000 EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	356.60	0.00	356.60	209.26	0.00	0.00	0.00	565.86
Total	1,069.80	0.00	1,069.80	627.77	0.00	0.00	0.00	1,697.57

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
20.0000	0.1500	6.6667	84.8785	53.4900	53.4900	0.7500

Activity: 311110107080	Clearing & grubbing, tree removal congested area, 12" diameter, aerial lift truck	Quantity: 3.00	Unit: EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	356.60	0.00	356.60	209.26	0.00	0.00	0.00	565.86
Total	1,069.80	0.00	1,069.80	627.77	0.00	0.00	0.00	1,697.57

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
565.8567	1.3334	0.7500	424.3713	0.5000	5.9997	0.1667	3,394.9703

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
20.0000	0.1500	6.6667	53.4900	356.6000

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS612

RS Means Crew B85

Prod: US

5.9997

Eff: 100.00

Crew Hrs: 4.00

Labor Pcs: 5.00

Equipment Pcs: 3.00

Notes: Clearing & grubbing, tree removal congested area, 12" diameter, aerial lift truck

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31111100	Clearing & grubbing, tree removal congested area,	1.00	3.00	EA	0.00	107.00	0.00	0.00
8Z5433200550	Brush Chipper, 12", 130 H.P.	1.00	4.00	HR	64.77	100.00	64.77	259.06
8Z5433400115	Telescoping Boom Lift, to 80'	1.00	4.00	HR	88.76	100.00	88.76	355.03
8Z5433406200	Pruning Saw, Rotary	1.00	4.00	HR	3.42	100.00	3.42	13.68
Z-CLAB	Common Building Laborers	3.00	12.00	MH	49.00	100.00	49.00	588.00
Z-EQMD	Equipment Operators, Medium Equipment	1.00	4.00	MH	65.00	100.00	65.00	260.00
Z-TRHV	Truck Drivers, Heavy	1.00	4.00	MH	55.45	100.00	55.45	221.80

Biditem

1302

Tree Relocation

Takeoff Qty: 7.000 EA

Bid Qty: 7.000 EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	999.57	0.00	999.57	571.54	8.76	0.00	0.00	1,579.86
Total	6,996.96	0.00	6,996.96	4,000.75	61.29	0.00	0.00	11,059.00

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
126.3700	0.0554	18.0529	87.5129	55.3688	55.3688	0.2468

Activity: 320190267550

Watering, water trees or shrubs, 1" - 3" caliper

(Unreviewed)

Quantity: 7.00

Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	23.10	0.00	23.10	0.00	0.00	0.00	0.00	23.10
Total	161.70	0.00	161.70	0.00	0.00	0.00	0.00	161.70

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
23.1000	0.4710	2.1231	49.0446	0.4121	16.9851	0.0589	392.3567

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
3.3000	2.1212	0.4714	49.0000	23.1000

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS1140

RS Means Crew CLAB

Prod: US

16.9851

Eff: 100.00

Crew Hrs: 3.30

Labor Pcs: 1.00

Equipment Pcs: 0.00

Notes: Watering, water trees or shrubs, 1" - 3" caliper

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32013040	Watering, water trees or shrubs, 1" - 3" caliper	1.00	7.00	EA	0.00	107.00	0.00	0.00
Z-CLAB	Common Building Laborers	1.00	3.30	MH	49.00	100.00	49.00	161.70

Activity: 329450101400

Tree guying, guy wire and wrap, 8" caliper, 8" anchors, includes arrowhead anchor, cable, turnbuckle

(Unreviewed)

Quantity: .32

Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	87.28	0.00	87.28	0.00	191.53	0.00	0.00	278.81
Total	27.93	0.00	27.93	0.00	61.29	0.00	0.00	89.22

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
87.2813	1.7781	0.5624	49.0861	0.0711	4.4991	0.2223	1,254.4112

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.5700	0.5614	1.7813	49.0000	87.2813

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS1140

RS Means Crew CLAB

Prod: US

4.4991

Eff: 100.00

Crew Hrs: 0.57

Labor Pcs: 1.00

Equipment Pcs: 0.00

Notes: Tree guying, guy wire and wrap, 8" caliper, 8" anchors, includes arrowhead anchor, cable, turnbuckles and wrap

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
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2Z32941225	Tree guying, guy wire and wrap, 8" caliper, 8" anc	1.00	0.32	EA	179.00	107.00	191.53	61.29
Z-CLAB	Common Building Laborers	1.00	0.57	MH	49.00	100.00	49.00	27.93

Activity: 329643205400

Tree transplanting, tree removal, trees, to 25' high, dig & lace

Quantity: 7.00

Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	972.48	0.00	972.48	571.54	0.00	0.00	0.00	1,544.01
Total	6,807.33	0.00	6,807.33	4,000.75	0.00	0.00	0.00	10,808.08

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1,544.0114	3.5000	0.2857	441.1461	3.0625	2.2857	0.4375	3,529.1690

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
122.5000	0.0571	17.5000	55.5700	972.4757

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS500

(Mod) RS Means Crew B6

Prod: US

2.2857

Eff: 100.00

Crew Hrs: 24.50

Labor Pcs: 5.00

Equipment Pcs: 2.00

Notes: Tree transplanting, tree removal, trees, evergreen, 8'-10' high, dig & lace

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32961140	Tree transplanting, tree removal, trees, evergreen	1.00	7.00	EA	0.00	107.00	0.00	0.00
8Z5433200140	Hyd. Excavator, .75 C.Y.	1.00	24.50	HR	114.42	100.00	114.42	2,803.24
8Z5433205500	Flatbed Truck, Gas, 3 Ton	1.00	24.50	HR	48.88	100.00	48.88	1,197.51
Z-CLAB	Common Building Laborers	3.00	73.50	MH	49.00	100.00	49.00	3,601.50
Z-EQHV	Equipment Operators, Crane or Shovel	1.00	24.50	MH	68.85	100.00	68.85	1,686.83
Z-EQLT	Equipment Operators, Light Equipment	1.00	24.50	MH	62.00	100.00	62.00	1,519.00

Biditem

New trees & Palms

Takeoff Qty: 22.000 EA

Bid Qty: 22.000 EA

1303

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	455.99	0.00	455.99	86.93	487.87	0.00	0.00	1,030.79
Total	10,031.67	0.00	10,031.67	1,912.39	10,733.23	0.00	0.00	22,677.29

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
191.4600	0.1149	8.7027	118.4440	52.3956	52.3956	0.2295

Activity: 320190267550

Watering, water trees or shrubs, 1" - 3" caliper

Quantity: 22.00

Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	23.07	0.00	23.07	0.00	0.00	0.00	0.00	23.07
Total	507.64	0.00	507.64	0.00	0.00	0.00	0.00	507.64

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
23.0745	0.4710	2.1231	48.9905	1.2953	16.9851	0.0589	391.9243

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
10.3600	2.1236	0.4709	49.0000	23.0745

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS1140

RS Means Crew CLAB

Prod: US

16.9851

Eff: 100.00

Crew Hrs: 10.36

Labor Pcs: 1.00

Equipment Pcs: 0.00

Notes: Watering, water trees or shrubs, 1" - 3" caliper

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32013040	Watering, water trees or shrubs, 1" - 3" caliper	1.00	22.00	EA	0.00	107.00	0.00	0.00

Z-CLAB	Common Building Laborers	1.00	10.36	MH	49.00	100.00	49.00	507.64
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Activity: 329113160100	Soil preparation, mulching, aged barks, 3" deep, hand spread	(Unreviewed)	Quantity: 60.00	Unit: SY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	3.92	0.00	3.92	0.00	4.91	0.00	0.00	8.83
Total	235.20	0.00	235.20	0.00	294.68	0.00	0.00	529.88

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3.9200	0.0800	12.5000	49.0000	0.6000	100.0000	0.0100	883.1333

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
4.8000	12.5000	0.0800	49.0000	3.9200

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1140 RS Means Crew CLAB Prod: US 100 Eff: 100.00 Crew Hrs: 4.80 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Soil preparation, mulching, aged barks, 3" deep, hand spread

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32911000	Soil preparation, mulching, aged barks, 3" deep, h	1.00	60.00	SY	4.59	107.00	4.91	294.68
Z-CLAB	Common Building Laborers	1.00	4.80	MH	49.00	100.00	49.00	235.20

Activity: 329113261200	Planting beds preparation, excavate planting pit, sandy soil, 1/2 C.Y. backhoe	Quantity: 55.00	Unit: CY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	6.09	0.00	6.09	1.85	0.00	0.00	0.00	7.95
Total	335.16	0.00	335.16	101.87	0.00	0.00	0.00	437.03

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
7.9460	0.0535	18.6916	148.5234	0.3678	149.5327	0.0067	1,188.1869

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
5.8800	9.3537	0.1069	57.0000	6.0938

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS144 RS Means Crew B11C Prod: US 149.5327 Eff: 100.00 Crew Hrs: 2.94 Labor Pcs: 2.00 Equipment Pcs: 1.00

Notes: Planting beds preparation, excavate planting pit, sandy soil, 1/2 C.Y. backhoe

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32911545	Planting beds preparation, excavate planting pit,	1.00	55.00	CY	0.00	107.00	0.00	0.00
8Z5433200450	Backhoe Loader, 48 H.P.	1.00	2.94	HR	34.65	100.00	34.65	101.87
Z-CLAB	Common Building Laborers	1.00	2.94	MH	49.00	100.00	49.00	144.06
Z-EQMD	Equipment Operators, Medium Equipment	1.00	2.94	MH	65.00	100.00	65.00	191.10

Activity: 329113262000	Planting beds preparation, mix planting soil, by hand, includes loam, manure, peat	Quantity: 61.60	Unit: CY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	13.09	0.00	13.09	0.00	42.26	0.00	0.00	55.35
Total	806.05	0.00	806.05	0.00	2,603.52	0.00	0.00	3,409.57

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
13.0852	0.2670	3.7453	49.0083	2.0559	29.9625	0.0334	1,658.4318

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
16.4500	3.7447	0.2670	49.0000	13.0852

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1140 RS Means Crew CLAB Prod: US 29.9625 Eff: 100.00 Crew Hrs: 16.45 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Planting beds preparation, mix planting soil, by hand, includes loam, manure, peat

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32911555	Planting beds preparation, mix planting soil, by h	1.00	61.60	CY	39.50	107.00	42.26	2,603.52
Z-CLAB	Common Building Laborers	1.00	16.45	MH	49.00	100.00	49.00	806.05

Activity: 32934301 Sabal Palm, 20' - 25' ht Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	871.38	0.00	871.38	436.00	262.15	0.00	0.00	1,569.53
Total	871.38	0.00	871.38	436.00	262.15	0.00	0.00	1,569.53

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1,307.3800	2.6667	0.3750	490.2614	0.3333	3.0000	0.3333	4,708.5311

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
16.0000	0.0625	16.0000	54.4613	871.3800

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS500 (Mod) RS Means Crew B6 Prod: MU 16.0002 Eff: 100.00 Crew Hrs: 2.67 Labor Pcs: 6.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2PALM	Palm Tree	1.00	1.00	EA	245.00	107.00	262.15	262.15
8Z5433200140	Hyd. Excavator, .75 C.Y.	1.00	2.67	HR	114.42	100.00	114.42	305.50
8Z5433205500	Flatbed Truck, Gas, 3 Ton	1.00	2.67	HR	48.88	100.00	48.88	130.50
Z-CLAB	Common Building Laborers	3.00	8.00	MH	49.00	100.00	49.00	392.00
Z-EQHV	Equipment Operators, Crane or Shovel	1.00	2.67	MH	68.85	100.00	68.85	183.83
Z-TRHV	Truck Drivers, Heavy	2.00	5.33	MH	55.45	100.00	55.45	295.55

Activity: 32934302 Bahamian Trumpet Tree, 12' ht Quantity: 3.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	426.67	0.00	426.67	92.40	422.65	0.00	0.00	941.71
Total	1,280.00	0.00	1,280.00	277.19	1,267.95	0.00	0.00	2,825.14

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
519.0633	2.6667	0.3750	194.6488	1.0000	3.0000	0.3333	2,825.1400

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
24.0000	0.1250	8.0000	53.3333	426.6667

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS500 RS Means Crew B6 Prod: MU 8 Eff: 100.00 Crew Hrs: 8.00 Labor Pcs: 3.00 Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2TREES	Trees	1.00	3.00	EA	395.00	107.00	422.65	1,267.95
8Z5433200450	Backhoe Loader, 48 H.P.	1.00	8.00	HR	34.65	100.00	34.65	277.19
Z-CLAB	Common Building Laborers	2.00	16.00	MH	49.00	100.00	49.00	784.00
Z-EQLT	Equipment Operators, Light Equipment	1.00	8.00	MH	62.00	100.00	62.00	496.00

Activity: 32934303 Live Oak, 12' ht Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	426.71	0.00	426.71	92.51	422.65	0.00	0.00	941.87
Total	426.71	0.00	426.71	92.51	422.65	0.00	0.00	941.87

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
519.2200	2.6667	0.3750	194.7051	0.3333	3.0000	0.3333	2,825.5747

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
8.0000	0.1250	8.0000	53.3388	426.7100

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS500 (Mod) RS Means Crew B6 Prod: UH 0.375 Eff: 100.00 Crew Hrs: 2.67 Labor Pcs: 3.00 Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2TREES	Trees	1.00	1.00	EA	395.00	107.00	422.65	422.65
8Z5433200450	Backhoe Loader, 48 H.P.	1.00	2.67	HR	34.65	100.00	34.65	92.51
Z-CLAB	Common Building Laborers	2.00	5.33	MH	49.00	100.00	49.00	261.17
Z-EQLT	Equipment Operators, Light Equipment	1.00	2.67	MH	62.00	100.00	62.00	165.54

Activity: 32934304 Grape Myrtle, 10' ht Quantity: 4.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	320.00	0.00	320.00	69.30	262.15	0.00	0.00	651.45
Total	1,280.00	0.00	1,280.00	277.19	1,048.60	0.00	0.00	2,605.79

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
389.2975	2.0000	0.5000	194.6488	1.0000	4.0000	0.2500	2,605.7900

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
24.0000	0.1667	6.0000	53.3333	320.0000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS500 (Mod) RS Means Crew B6 Prod: UH 0.5 Eff: 100.00 Crew Hrs: 8.00 Labor Pcs: 3.00 Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2TREES	Trees	1.00	4.00	EA	245.00	107.00	262.15	1,048.60
8Z5433200450	Backhoe Loader, 48 H.P.	1.00	8.00	HR	34.65	100.00	34.65	277.19
Z-CLAB	Common Building Laborers	2.00	16.00	MH	49.00	100.00	49.00	784.00
Z-EQLT	Equipment Operators, Light Equipment	1.00	8.00	MH	62.00	100.00	62.00	496.00

Activity: 32934305 Spanish Stopper, 10' ht Quantity: 5.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	160.00	0.00	160.00	34.65	254.13	0.00	0.00	448.78
Total	800.00	0.00	800.00	173.25	1,270.63	0.00	0.00	2,243.88

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
194.6500	1.0000	1.0000	194.6500	0.6250	8.0000	0.1250	3,590.2080

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
15.0000	0.3333	3.0000	53.3333	160.0000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS500 (Mod) RS Means Crew B6 Prod: MU 3 Eff: 100.00 Crew Hrs: 5.00 Labor Pcs: 3.00 Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2TREES	Trees	1.00	5.00	EA	237.50	107.00	254.13	1,270.63
8Z5433200450	Backhoe Loader, 48 H.P.	1.00	5.00	HR	34.65	100.00	34.65	173.25
Z-CLAB	Common Building Laborers	2.00	10.00	MH	49.00	100.00	49.00	490.00
Z-EQLT	Equipment Operators, Light Equipment	1.00	5.00	MH	62.00	100.00	62.00	310.00

Activity: 32934306 Silver Buttonwood, 12' ht Quantity: 8.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	320.00	0.00	320.00	69.30	262.15	0.00	0.00	651.45
Total	2,560.00	0.00	2,560.00	554.38	2,097.20	0.00	0.00	5,211.58

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
389.2975	2.0000	0.5000	194.6488	2.0000	4.0000	0.2500	2,605.7900

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
48.0000	0.1667	6.0000	53.3333	320.0000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS500 (Mod) RS Means Crew B6 Prod: UH 0.5 Eff: 100.00 Crew Hrs: 16.00 Labor Pcs: 3.00 Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2TREES	Trees	1.00	8.00	EA	245.00	107.00	262.15	2,097.20
8Z5433200450	Backhoe Loader, 48 H.P.	1.00	16.00	HR	34.65	100.00	34.65	554.38
Z-CLAB	Common Building Laborers	2.00	32.00	MH	49.00	100.00	49.00	1,568.00
Z-EQLT	Equipment Operators, Light Equipment	1.00	16.00	MH	62.00	100.00	62.00	992.00

Activity: 329450101100	Tree guying, guy wire and wrap, less than 3" caliper, 3" anchors, includes arrowhead anchor, cable,	Quantity: 21.00	Unit: EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	39.20	0.00	39.20	0.00	55.11	0.00	0.00	94.31
Total	823.20	0.00	823.20	0.00	1,157.21	0.00	0.00	1,980.41

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
39.2000	0.8000	1.2500	49.0000	2.1000	10.0000	0.1000	943.0524

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
16.8000	1.2500	0.8000	49.0000	39.2000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1140 RS Means Crew CLAB Prod: US 10 Eff: 100.00 Crew Hrs: 16.80 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Tree guying, guy wire and wrap, less than 3" caliper, 3" anchors, includes arrowhead anchor, cable, turnbuckles and wrap

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32941210	Tree guying, guy wire and wrap, less than 3" calip	1.00	21.00	EA	51.50	107.00	55.11	1,157.21
Z-CLAB	Common Building Laborers	1.00	16.80	MH	49.00	100.00	49.00	823.20

Activity: 329450101400	Tree guying, guy wire and wrap, 8" caliper, 8" anchors, includes arrowhead anchor, cable, turnbuckle	Quantity: 1.00	Unit: EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	87.22	0.00	87.22	0.00	191.53	0.00	0.00	278.75
Total	87.22	0.00	87.22	0.00	191.53	0.00	0.00	278.75

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
87.2200	1.7780	0.5624	49.0551	0.2223	4.4994	0.2223	1,254.2182

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1.7800	0.5618	1.7800	49.0000	87.2200

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1140 RS Means Crew CLAB Prod: US 4.4994 Eff: 100.00 Crew Hrs: 1.78 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Tree guying, guy wire and wrap, 8" caliper, 8" anchors, includes arrowhead anchor, cable, turnbuckles and wrap

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32941225	Tree guying, guy wire and wrap, 8" caliper, 8" anc	1.00	1.00	EA	179.00	107.00	191.53	191.53
Z-CLAB	Common Building Laborers	1.00	1.78	MH	49.00	100.00	49.00	87.22

Activity: 334123190100	Geotextile subsurface drainage filtration, fabric, laid in trench, polypropylene, ideal conditions	Quantity: 55.00	Unit: SY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.35	0.00	0.35	0.00	2.13	0.00	0.00	2.48
Total	19.11	0.00	19.11	0.00	117.11	0.00	0.00	136.22

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.3475	0.0070	142.8571	49.6364	0.0481	1,142.8571	0.0009	2,830.5455

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.3900	141.0256	0.0071	49.0000	0.3475

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS1140 RS Means Crew CLABProd: US 1142.8571Eff: 100.00Crew Hrs: 0.39Labor Pcs: 1.00Equipment Pcs: 0.00

Notes: Geotextile subsurface drainage filtration, fabric, laid in trench, polypropylene, ideal conditions

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z33411315	Geotextile subsurface drainage filtration, fabric,	1.00	55.00	SY	1.99	107.00	2.13	117.11
Z-CLAB	Common Building Laborers	1.00	0.39	MH	49.00	100.00	49.00	19.11

BiditemShrubs

1304

Takeoff Qty: 217.000 EA

Bid Qty: 217.000 EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	43.31	0.00	43.31	0.28	52.90	0.00	0.00	96.48
Total	9,398.20	0.00	9,398.20	60.40	11,478.22	0.00	0.00	20,936.82

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
191.0000	1.1361	0.8802	109.6169	49.2052	49.2052	3.0910

Activity: 329113160100Soil preparation, mulching, aged barks, 3" deep, hand spread(Unreviewed)Quantity: 120.60Unit: SY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	3.92	0.00	3.92	0.00	4.91	0.00	0.00	8.83
Total	472.85	0.00	472.85	0.00	592.30	0.00	0.00	1,065.15

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3.9208	0.0800	12.5000	49.0102	1.2060	100.0000	0.0100	883.2090

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
9.6500	12.4974	0.0800	49.0000	3.9208

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS1140 RS Means Crew CLABProd: US 100Eff: 100.00Crew Hrs: 9.65Labor Pcs: 1.00Equipment Pcs: 0.00

Notes: Soil preparation, mulching, aged barks, 3" deep, hand spread

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32911000	Soil preparation, mulching, aged barks, 3" deep, h	1.00	120.60	SY	4.59	107.00	4.91	592.30
Z-CLAB	Common Building Laborers	1.00	9.65	MH	49.00	100.00	49.00	472.85

Activity: 329113230400Soil preparation, structural soil mixing, rake and finish, screened loam, adverse conditions, york r(Unreviewed)Quantity: 1.10Unit: MSF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	64.00	0.00	64.00	13.05	0.00	0.00	0.00	77.05
Total	70.40	0.00	70.40	14.35	0.00	0.00	0.00	84.75

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
77.0455	0.4000	2.5000	192.6136	0.0550	20.0000	0.0500	1,540.9091

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1.3200	0.8333	1.2000	53.3333	64.0000

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS506 RS Means Crew B62Prod: US 20Eff: 100.00Crew Hrs: 0.44Labor Pcs: 3.00Equipment Pcs: 1.00

Notes: Soil preparation, structural soil mixing, rake and finish, screened loam, adverse conditions, york rake

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
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2Z32911200	Soil preparation, structural soil mixing, rake and	1.00	1.10	MSF	0.00	107.00	0.00	0.00
8Z5433204880	Loader, Skid Steer, 30 H.P.	1.00	0.44	HR	32.62	100.00	32.61	14.35
Z-CLAB	Common Building Laborers	2.00	0.88	MH	49.00	100.00	49.00	43.12
Z-EQLT	Equipment Operators, Light Equipment	1.00	0.44	MH	62.00	100.00	62.00	27.28

Activity: 329113235200	Soil preparation, structural soil mixing, spread topsoil, articulated loader and 75 HP dozer	(Unreviewed)	Quantity: 13.50	Unit: CY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.46	0.00	1.46	3.41	24.07	0.00	0.00	28.94
Total	19.69	0.00	19.69	46.05	325.01	0.00	0.00	390.75

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
4.8696	0.0160	62.5000	304.3519	0.0270	500.0000	0.0020	14,472.2222

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.3300	40.9091	0.0244	59.6667	1.4585

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS114 RS Means Crew B10M Prod: US 500 Eff: 100.00 Crew Hrs: 0.22 Labor Pcs: 1.50 Equipment Pcs: 1.00

Notes: Soil preparation, structural soil mixing, spread topsoil, articulated loader and 75 HP dozer

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32911475	Soil preparation, structural soil mixing, spread t	1.00	13.50	CY	22.50	107.00	24.07	325.01
8Z5433204310	Dozer, 300 H.P.	1.00	0.22	HR	209.32	100.00	209.32	46.05
Z-CLAB	Common Building Laborers	0.50	0.11	MH	49.00	100.00	49.00	5.39
Z-EQMD	Equipment Operators, Medium Equipment	1.00	0.22	MH	65.00	100.00	65.00	14.30

Activity: 32933301	Red Tip Cocoplum, 24" ht	Quantity: 111.00	Unit: EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	34.42	0.00	34.42	0.00	37.45	0.00	0.00	71.87
Total	3,820.25	0.00	3,820.25	0.00	4,156.95	0.00	0.00	7,977.20

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
34.4167	0.2333	4.2857	147.5000	3.2375	34.2857	0.0292	2,464.0000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
77.7000	1.4286	0.7000	49.1667	34.4167

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS088 RS Means Crew B1 Prod: MU 0.7 Eff: 100.00 Crew Hrs: 25.90 Labor Pcs: 3.00 Equipment Pcs: 0.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2SHRUB	Shrubs	1.00	111.00	EA	35.00	107.00	37.45	4,156.95
Z-CLAB	Common Building Laborers	2.00	51.80	MH	49.00	100.00	49.00	2,538.20
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	25.90	MH	49.50	100.00	49.50	1,282.05

Activity: 32933302	Red Tip Cocoplum, 48" ht	Quantity: 31.00	Unit: EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	73.75	0.00	73.75	0.00	93.63	0.00	0.00	167.38
Total	2,286.25	0.00	2,286.25	0.00	2,902.38	0.00	0.00	5,188.63

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
73.7500	0.5000	2.0000	147.5000	1.9375	16.0000	0.0625	2,678.0026

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
46.5000	0.6667	1.5000	49.1667	73.7500

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS088 RS Means Crew B1

Prod: MU 1.5

Eff: 100.00

Crew Hrs: 15.50

Labor Pcs: 3.00

Equipment Pcs: 0.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2SHRUB	Shrubs	1.00	31.00	EA	87.50	107.00	93.63	2,902.38
Z-CLAB	Common Building Laborers	2.00	31.00	MH	49.00	100.00	49.00	1,519.00
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	15.50	MH	49.50	100.00	49.50	767.25

Activity: 32933303 Silver Buttonwood

Quantity: 13.00

Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	36.88	0.00	36.88	0.00	93.63	0.00	0.00	130.50
Total	479.38	0.00	479.38	0.00	1,217.13	0.00	0.00	1,696.51

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
36.8754	0.2500	4.0000	147.5015	0.4063	32.0000	0.0313	4,176.0246

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
9.7500	1.3333	0.7500	49.1672	36.8754

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS088 RS Means Crew B1

Prod: MU 0.75

Eff: 100.00

Crew Hrs: 3.25

Labor Pcs: 3.00

Equipment Pcs: 0.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2SHRUB	Shrubs	1.00	13.00	EA	87.50	107.00	93.63	1,217.13
Z-CLAB	Common Building Laborers	2.00	6.50	MH	49.00	100.00	49.00	318.50
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	3.25	MH	49.50	100.00	49.50	160.88

Activity: 32933304 Yew Pine

Quantity: 61.00

Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	36.88	0.00	36.88	0.00	37.45	0.00	0.00	74.33
Total	2,249.38	0.00	2,249.38	0.00	2,284.45	0.00	0.00	4,533.83

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
36.8751	0.2500	4.0000	147.5003	1.9063	32.0000	0.0313	2,378.4026

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
45.7500	1.3333	0.7500	49.1668	36.8751

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS088 RS Means Crew B1

Prod: MU 0.75

Eff: 100.00

Crew Hrs: 15.25

Labor Pcs: 3.00

Equipment Pcs: 0.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2SHRUB	Shrubs	1.00	61.00	EA	35.00	107.00	37.45	2,284.45
Z-CLAB	Common Building Laborers	2.00	30.50	MH	49.00	100.00	49.00	1,494.50
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	15.25	MH	49.50	100.00	49.50	754.88

Biditem

Ground Cover Areas

Takeoff Qty: 433.000 EA

Bid Qty: 433.000 EA

1305

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	15.92	0.00	15.92	0.17	12.56	0.00	0.00	28.65
Total	6,892.32	0.00	6,892.32	74.14	5,437.88	0.00	0.00	12,404.34

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
140.0000	3.0929	0.3233	88.6024	49.2309	49.2309	7.8895

Activity: 329113160100 Soil preparation, mulching, aged barks, 3" deep, hand spread

Quantity: 151.50

Unit: SY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
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U. Cost	3.92	0.00	3.92	0.00	4.91	0.00	0.00	8.83
Total	593.88	0.00	593.88	0.00	744.06	0.00	0.00	1,337.94

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3.9200	0.0800	12.5000	49.0000	1.5150	100.0000	0.0100	883.1287

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
12.1200	12.5000	0.0800	49.0000	3.9200

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1140 RS Means Crew CLAB Prod: US 100 Eff: 100.00 Crew Hrs: 12.12 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Soil preparation, mulching, aged barks, 3" deep, hand spread

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32911000	Soil preparation, mulching, aged barks, 3" deep, h	1.00	151.50	SY	4.59	107.00	4.91	744.06
Z-CLAB	Common Building Laborers	1.00	12.12	MH	49.00	100.00	49.00	593.88

Activity: 329113230400 Soil preparation, structural soil mixing, rake and finish, screened loam, adverse conditions, york r Quantity: 1.36 Unit: MSF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	63.89	0.00	63.89	12.96	0.00	0.00	0.00	76.85
Total	86.89	0.00	86.89	17.62	0.00	0.00	0.00	104.51

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
76.8456	0.4000	2.5000	192.1140	0.0680	20.0000	0.0500	1,536.9118

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1.6300	0.8344	1.1985	53.3067	63.8897

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS506 RS Means Crew B62 Prod: US 20 Eff: 100.00 Crew Hrs: 0.54 Labor Pcs: 3.00 Equipment Pcs: 1.00

Notes: Soil preparation, structural soil mixing, rake and finish, screened loam, adverse conditions, york rake

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32911200	Soil preparation, structural soil mixing, rake and	1.00	1.36	MSF	0.00	107.00	0.00	0.00
8Z5433204880	Loader, Skid Steer, 30 H.P.	1.00	0.54	HR	32.62	100.00	32.63	17.62
Z-CLAB	Common Building Laborers	2.00	1.09	MH	49.00	100.00	49.00	53.41
Z-EQLT	Equipment Operators, Light Equipment	1.00	0.54	MH	62.00	100.00	62.00	33.48

Activity: 329113235200 Soil preparation, structural soil mixing, spread topsoil, articulated loader and 75 HP dozer Quantity: 16.80 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.42	0.00	1.42	3.36	24.08	0.00	0.00	28.86
Total	23.92	0.00	23.92	56.52	404.46	0.00	0.00	484.90

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
4.7881	0.0160	62.5000	299.2560	0.0336	500.0000	0.0020	14,431.5476

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.4000	42.0000	0.0238	59.8000	1.4238

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS114 RS Means Crew B10M Prod: US 500 Eff: 100.00 Crew Hrs: 0.27 Labor Pcs: 1.50 Equipment Pcs: 1.00

Notes: Soil preparation, structural soil mixing, spread topsoil, articulated loader and 75 HP dozer

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32911475	Soil preparation, structural soil mixing, spread t	1.00	16.80	CY	22.50	107.00	24.08	404.46

8Z5433204310	Dozer, 300 H.P.	1.00	0.27	HR	209.32	100.00	209.33	56.52
Z-CLAB	Common Building Laborers	0.50	0.13	MH	49.00	100.00	49.00	6.37
Z-EQMD	Equipment Operators, Medium Equipment	1.00	0.27	MH	65.00	100.00	65.00	17.55

Activity: 3293131001

Green Island Ficus

Quantity: 257.00

Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	12.29	0.00	12.29	0.00	9.36	0.00	0.00	21.65
Total	3,158.96	0.00	3,158.96	0.00	2,406.16	0.00	0.00	5,565.12

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
12.2917	0.0833	12.0000	147.4998	2.6771	95.9999	0.0104	2,078.7965

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
64.2500	4.0000	0.2500	49.1667	12.2917

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS088

RS Means Crew B1

Prod: MU 0.25

Eff: 100.00

Crew Hrs: 21.42

Labor Pcs: 3.00

Equipment Pcs: 0.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2GNDCVR	Ground Cover	1.00	257.00	EA	8.75	107.00	9.36	2,406.16
Z-CLAB	Common Building Laborers	2.00	42.83	MH	49.00	100.00	49.00	2,098.67
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	21.42	MH	49.50	100.00	49.50	1,060.29

Activity: 3293131002

Pink Muhly Grass

Quantity: 176.00

Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	17.21	0.00	17.21	0.00	10.70	0.00	0.00	27.91
Total	3,028.67	0.00	3,028.67	0.00	1,883.20	0.00	0.00	4,911.87

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
17.2084	0.1167	8.5714	147.5004	2.5667	68.5715	0.0146	1,913.7187

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
61.6000	2.8571	0.3500	49.1667	17.2084

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS088

(Mod) RS Means Crew B1

Prod: MU 0.35

Eff: 100.00

Crew Hrs: 20.53

Labor Pcs: 3.00

Equipment Pcs: 0.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2GNDCVR	Ground Cover	1.00	176.00	EA	10.00	107.00	10.70	1,883.20
Z-CLAB	Common Building Laborers	2.00	41.07	MH	49.00	100.00	49.00	2,012.43
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	20.53	MH	49.50	100.00	49.50	1,016.24

Biditem

1306

Sodding

Takeoff Qty: 6,780.000 SF

Bid Qty: 6,780.000 SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.09	0.00	0.09	0.01	1.07	0.00	0.00	1.18
Total	636.28	0.00	636.28	80.58	7,254.60	0.00	0.00	7,971.46

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
12.3300	549.8783	0.0018	646.5093	51.6042	51.6042	2,750.2840

Activity: 329223100020

Sodding, St. Augustine sod, on level ground, 1" deep

(Unreviewed)

Quantity: 6.78

Unit: MSF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	93.85	0.00	93.85	11.88	1,070.00	0.00	0.00	1,175.73
Total	636.28	0.00	636.28	80.58	7,254.60	0.00	0.00	7,971.46

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
105.7316	0.3636	2.7503	290.7918	0.3082	22.0023	0.0454	25,868.7652
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
12.3300	0.5499	1.8186	51.6042	93.8466			

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS508 (Mod) RS Means Crew B63Prod: US 22.0023Eff: 100.00Crew Hrs: 2.47Labor Pcs: 5.00Equipment Pcs: 1.00

Notes: Sodding, bluegrass sod, on level ground, 1" deep, 8 M.S.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2GRASS	St. Augustine Sod	1.00	6.78	MSF	1,000.00	107.00	1,070.00	7,254.60
8Z5433204880	Loader, Skid Steer, 30 H.P.	1.00	2.47	HR	32.62	100.00	32.62	80.58
Z-CLAB	Common Building Laborers	4.00	9.86	MH	49.00	100.00	49.00	483.14
Z-EQLT	Equipment Operators, Light Equipment	1.00	2.47	MH	62.00	100.00	62.00	153.14

Biditem

1307

Tree Protection

Takeoff Qty: 21.000 EA

Bid Qty: 21.000 EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	612.86	0.00	612.86	174.26	651.43	0.00	0.00	1,438.54
Total	12,870.06	0.00	12,870.06	3,659.37	13,679.99	0.00	0.00	30,209.42

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
259.9800	0.0808	12.3800	116.1990	49.5040	49.5040	0.1587

Activity: 033113250130Concrete, hand mix, for small quantities or remote areas, 3000 psi, using gas powered cement mixer,Quantity: 400.00Unit: CF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.89	0.00	2.89	1.10	5.20	0.00	0.00	9.20
Total	1,156.40	0.00	1,156.40	441.82	2,080.08	0.00	0.00	3,678.30

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3.9956	0.0590	16.9492	67.7212	2.9500	135.5932	0.0074	1,246.8814

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
23.6000	16.9492	0.0590	49.0000	2.8910			

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS740 RS Means Crew C30Prod: US 135.5932Eff: 100.00Crew Hrs: 23.60Labor Pcs: 1.00Equipment Pcs: 1.00

Notes: Concrete, hand mix, for small quantities or remote areas, 3000 psi, using gas powered cement mixer, includes local bulk aggregate.C.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03311005	Concrete, hand mix, for small quantities or remote	1.00	400.00	CF	4.86	107.00	5.20	2,080.08
8Z5433101900	Concrete Mixer, 10 C.F.	1.00	23.60	HR	18.72	100.00	18.72	441.82
Z-CLAB	Common Building Laborers	1.00	23.60	MH	49.00	100.00	49.00	1,156.40

Activity: 323113307900Chain link fence gates and posts, auger fence post hole, medium soil, 3' deep, by hand, includes excQuantity: 168.00Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	13.08	0.00	13.08	0.00	0.00	0.00	0.00	13.08
Total	2,198.14	0.00	2,198.14	0.00	0.00	0.00	0.00	2,198.14

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
13.0842	0.2670	3.7453	49.0043	5.6070	29.9625	0.0334	392.0341

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
44.8600	3.7450	0.2670	49.0000	13.0842

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1140 RS Means Crew CLAB Prod: US 29.9625 Eff: 100.00 Crew Hrs: 44.86 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Chain link fence gates and posts, auger fence post hole, medium soil, 3' deep, by hand, includes excavation

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32311725	Chain link fence gates and posts, auger fence post	1.00	168.00	EA	0.00	107.00	0.00	0.00
Z-CLAB	Common Building Laborers	1.00	44.86	MH	49.00	100.00	49.00	2,198.14

Activity: 323113640110	Fence, chain link, terminal posts, 16 ga., steel, galv, 2-1/2" x 6' x 0.065 wall, not incl. concrete	Quantity: 168.00	Unit: EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	15.09	0.00	15.09	5.18	31.03	0.00	0.00	51.30
Total	2,535.12	0.00	2,535.12	869.74	5,213.04	0.00	0.00	8,617.90

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
20.2670	0.1000	10.0000	202.6702	2.1000	80.0000	0.0125	4,103.7619

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
50.4000	3.3333	0.3000	50.3000	15.0900

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS594 RS Means Crew B80C Prod: US 80 Eff: 100.00 Crew Hrs: 16.80 Labor Pcs: 3.00 Equipment Pcs: 2.00

Notes: Fence, chain link, terminal posts, 16 ga., steel, galv, 2-1/2" x 6' x 0.065 wall, not incl. concrete, includes post cap, excavatEa.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32312295	Fence, chain link, terminal posts, 16 ga., steel,	1.00	168.00	EA	29.00	107.00	31.03	5,213.04
8Z5433200095	Manual Fence Post Auger, Gas	1.00	16.80	HR	6.53	100.00	6.53	109.64
8Z5433205450	Flatbed Truck, Gas, 1.5 Ton	1.00	16.80	HR	45.24	100.00	45.24	760.10
Z-CLAB	Common Building Laborers	2.00	33.60	MH	49.00	100.00	49.00	1,646.40
Z-TRLT	Truck Drivers, Light	1.00	16.80	MH	52.90	100.00	52.90	888.72

Activity: 323113650110	Fence, chain link, line posts, 16 ga., steel, galv, 1-5/8" x 6' x 0.065 wall, set in concrete, inclu	Quantity: 168.00	Unit: EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	15.09	0.00	15.09	5.18	19.53	0.00	0.00	39.79
Total	2,535.12	0.00	2,535.12	869.74	3,280.62	0.00	0.00	6,685.48

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
20.2670	0.1000	10.0000	202.6702	2.1000	80.0000	0.0125	3,183.5619

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
50.4000	3.3333	0.3000	50.3000	15.0900

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS594 RS Means Crew B80C Prod: US 80 Eff: 100.00 Crew Hrs: 16.80 Labor Pcs: 3.00 Equipment Pcs: 2.00

Notes: Fence, chain link, line posts, 16 ga., steel, galv, 1-5/8" x 6' x 0.065 wall, set in concrete, includes post cap and excavation

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32312345	Fence, chain link, line posts, 16 ga., steel, galv	1.00	168.00	EA	18.25	107.00	19.53	3,280.62
8Z5433200095	Manual Fence Post Auger, Gas	1.00	16.80	HR	6.53	100.00	6.53	109.64
8Z5433205450	Flatbed Truck, Gas, 1.5 Ton	1.00	16.80	HR	45.24	100.00	45.24	760.10
Z-CLAB	Common Building Laborers	2.00	33.60	MH	49.00	100.00	49.00	1,646.40

Z-TRLT	Truck Drivers, Light	1.00	16.80	MH	52.90	100.00	52.90	888.72
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Activity:	323113680110	Fence, chain link, fabric, steel, galvanized, 11-1/2 ga., 2-1/4" Mesh, 4' H, includes hardware	Quantity:	1008.00	Unit:	LF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4.41	0.00	4.41	1.47	3.08	0.00	0.00	8.96
Total	4,445.28	0.00	4,445.28	1,478.07	3,106.25	0.00	0.00	9,029.60

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
5.8763	0.0300	33.3333	195.8780	3.7800	266.6667	0.0038	2,388.7831

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
90.7200	11.1111	0.0900	49.0000	4.4100

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS590

RS Means Crew B80A

Prod: US

266.6667

Eff: 100.00

Crew Hrs: 30.24

Labor Pcs: 3.00

Equipment Pcs: 1.00

Notes: Fence, chain link, fabric, steel, galvanized, 11-1/2 ga., 2-1/4" Mesh, 4' H, includes hardware

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32312415	Fence, chain link, fabric, steel, galvanized, 11-1	1.00	1,008.00	LF	2.88	107.00	3.08	3,106.25
8Z5433205500	Flatbed Truck, Gas, 3 Ton	1.00	30.24	HR	48.88	100.00	48.88	1,478.07
Z-CLAB	Common Building Laborers	3.00	90.72	MH	49.00	100.00	49.00	4,445.28

Biditem - Parent

14

Irrigation System

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	6,830.07	0.00	6,830.07	0.00	7,518.89	0.00	2,000.00	16,348.96
Total	6,830.07	0.00	6,830.07	0.00	7,518.89	0.00	2,000.00	16,348.96

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
107.5600	0.0093	107.5600	151.9985	63.5001	63.5001	0.0000

Subtotal

Pump Station 28 Items

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Misc 1	Misc 2	Misc 3	Total
Total	2,389,304.54	17,354.34	2,406,658.88	2,087,466.65	8,853,316.67	15,921.60	3,484,545.10	0.00	0.00	0.00	16,847,908.90

Subtotal

Force Main Items

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Misc 1	Misc 2	Misc 3	Total
Total	384,637.30	0.00	384,637.30	213,177.51	692,844.89	0.00	30,000.00	0.00	0.00	0.00	1,320,659.70

Biditem

1401

Design & Permitting

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.00	0.00	0.00	0.00	0.00	0.00	2,000.00	2,000.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	2,000.00	2,000.00

Activity:	328423100001	Design - Irrigation System	(Unreviewed)	Quantity:	1.00	Unit:	LS
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Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4ENG	Engineering Services	1.00	1.00	LS	1,500.00	100.00	1,500.00	1,500.00

Activity: 328423100002Permitting - Irrigation System(Unreviewed)Quantity: 1.00Unit: LS

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4ENG	Engineering Services	1.00	1.00	LS	500.00	100.00	500.00	500.00

Biditem

1402

Irrigation System

Takeoff Qty: 7,715.000 SF

Bid Qty: 7,715.000 SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.89	0.00	0.89	0.00	0.97	0.00	0.00	1.86
Total	6,830.07	0.00	6,830.07	0.00	7,518.89	0.00	0.00	14,348.96

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
107.5600	71.7274	0.0139	133.4042	63.5001	63.5001	71.7294

Activity: 328423101040Underground sprinklers irrigation system, for lawns, pop-up spray head with risers(Unreviewed)Quantity: 7715.00Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.79	0.00	0.79	0.00	0.64	0.00	0.00	1.43
Total	6,096.00	0.00	6,096.00	0.00	4,953.03	0.00	0.00	11,049.03

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.7901	0.0124	80.3646	63.5000	12.0000	642.9167	0.0016	920.7525

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
96.0000	80.3646	0.0124	63.5000	0.7901

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS1144 RS Means Crew SKWKProd: US 642.9167Eff: 100.00Crew Hrs: 96.00Labor Pcs: 1.00Equipment Pcs: 0.00

Notes: Underground sprinklers irrigation system, for lawns, pop-up spray head with risers, hi-pop, full circle pattern, 6", includes meEa.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32841245	Underground sprinklers irrigation system, for lawn	1.00	7,715.00	SF	0.60	107.00	0.64	4,953.03
Z-SKWK	Skilled Workers Average (35 trades)	1.00	96.00	MH	63.50	100.00	63.50	6,096.00

Activity: 328423101330Underground sprinklers irrigation system, for lawns, electric remote control valve, plastic, 2"(Unreviewed)Quantity: 7.00Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	56.42	0.00	56.42	0.00	159.43	0.00	0.00	215.85
Total	394.97	0.00	394.97	0.00	1,116.01	0.00	0.00	1,510.98

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
56.4243	0.8890	1.1249	63.4694	0.7779	8.9989	0.1111	1,942.4458

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
6.2200	1.1254	0.8886	63.5000	56.4243

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS1144 RS Means Crew SKWKProd: US 8.9989Eff: 100.00Crew Hrs: 6.22Labor Pcs: 1.00Equipment Pcs: 0.00

Notes: Underground sprinklers irrigation system, for lawns, electric remote control valve, plastic, 2", 5-30 GPM, 15-125 psi, excludes Ea.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32841380	Underground sprinklers irrigation system, for lawn	1.00	7.00	EA	149.00	107.00	159.43	1,116.01
Z-SKWK	Skilled Workers Average (35 trades)	1.00	6.22	MH	63.50	100.00	63.50	394.97

Activity: 328423101510	Underground sprinklers irrigation system, for lawns, pressure vacuum breaker, brass, 15 - 150 psi, 2	(Unreviewed)	Quantity: 1.00	Unit: EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	169.55	0.00	169.55	0.00	909.50	0.00	0.00	1,079.05
Total	169.55	0.00	169.55	0.00	909.50	0.00	0.00	1,079.05

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
169.5500	2.6670	0.3750	63.5733	0.3334	2.9996	0.3334	3,236.7454

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
2.6700	0.3745	2.6700	63.5019	169.5500

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1144 RS Means Crew SKWK Prod: US 2.9996 Eff: 100.00 Crew Hrs: 2.67 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Underground sprinklers irrigation system, for lawns, pressure vacuum breaker, brass, 15 - 150 psi, 2"

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32841470	Underground sprinklers irrigation system, for lawn	1.00	1.00	EA	850.00	107.00	909.50	909.50
Z-SKWK	Skilled Workers Average (35 trades)	1.00	2.67	MH	63.50	100.00	63.50	169.55

Activity: 328423101470	Underground sprinklers irrigation system, for lawns, backflow preventer, bronze, with valves, test c	(Unreviewed)	Quantity: 1.00	Unit: EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	169.55	0.00	169.55	0.00	540.35	0.00	0.00	709.90
Total	169.55	0.00	169.55	0.00	540.35	0.00	0.00	709.90

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
169.5500	2.6670	0.3750	63.5733	0.3334	2.9996	0.3334	2,129.4338

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
2.6700	0.3745	2.6700	63.5019	169.5500

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1144 RS Means Crew SKWK Prod: US 2.9996 Eff: 100.00 Crew Hrs: 2.67 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Underground sprinklers irrigation system, for lawns, backflow preventer, bronze, with valves, test cocks, 0-175 psi, 2"

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32841450	Underground sprinklers irrigation system, for lawn	1.00	1.00	EA	505.00	107.00	540.35	540.35
Z-SKWK	Skilled Workers Average (35 trades)	1.00	2.67	MH	63.50	100.00	63.50	169.55

Biditem - Parent

15

Pump Station Site Restoration

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2,976.00	0.00	2,976.00	716.31	10,700.00	0.00	0.00	14,392.31
Total	2,976.00	0.00	2,976.00	716.31	10,700.00	0.00	0.00	14,392.31

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
56.0000	0.0179	56.0000	257.0055	53.1429	53.1429	0.0000

Subtotal

Pump Station 28 Items

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Misc 1	Misc 2	Misc 3	Total
Total	2,389,304.54	17,354.34	2,406,658.88	2,087,466.65	8,853,316.67	15,921.60	3,484,545.10	0.00	0.00	0.00	16,847,908.90

Subtotal

Force Main Items

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Misc 1	Misc 2	Misc 3	Total
Total	384,637.30	0.00	384,637.30	213,177.51	692,844.89	0.00	30,000.00	0.00	0.00	0.00	1,320,659.70

Biditem

1501

Restore sod

Takeoff Qty: 30,000.000 SF
Bid Qty: 30,000.000 SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.10	0.00	0.10	0.02	0.36	0.00	0.00	0.48
Total	2,976.00	0.00	2,976.00	716.31	10,700.00	0.00	0.00	14,392.31

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
56.0000	535.7143	0.0019	257.0055	53.1429	53.1429	1,875.0000

Activity: 329113264000	Planting beds preparation, remove sod, F.E. loader	Quantity: 1111.10	Unit: SY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.82	0.00	0.82	0.41	0.00	0.00	0.00	1.23
Total	912.00	0.00	912.00	455.32	0.00	0.00	0.00	1,367.32

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1.2306	0.0072	138.8875	170.9150	1.0000	1,111.1000	0.0009	1,367.3200

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
16.0000	69.4438	0.0144	57.0000	0.8208

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS126 (Mod) RS Means Crew B105 Prod: US 1111.1 Eff: 100.00 Crew Hrs: 8.00 Labor Pcs: 2.00 Equipment Pcs: 1.00

Notes: Planting beds preparation, remove sod, F.E. loader

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8Z5433204620	F.E. Loader, W.M., 1.5 C.Y.	1.00	8.00	HR	56.92	100.00	56.92	455.32
Z-CLAB	Common Building Laborers	1.00	8.00	MH	49.00	100.00	49.00	392.00
Z-EQMD	Equipment Operators, Medium Equipment	1.00	8.00	MH	65.00	100.00	65.00	520.00

Activity: 329223100020	Sodding, St. Augustine sod, on level ground, 1" deep	Quantity: 10.00	Unit: MSF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	206.40	0.00	206.40	26.10	1,070.00	0.00	0.00	1,302.50
Total	2,064.00	0.00	2,064.00	260.99	10,700.00	0.00	0.00	13,024.99

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
232.4990	0.8000	1.2500	290.6238	1.0000	10.0000	0.1000	13,024.9900

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
40.0000	0.2500	4.0000	51.6000	206.4000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS508 (Mod) RS Means Crew B63 Prod: US 10 Eff: 100.00 Crew Hrs: 8.00 Labor Pcs: 5.00 Equipment Pcs: 1.00

Notes: Sodding, bluegrass sod, on level ground, 1" deep, 8 M.S.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2GRASS	St. Augustine Sod	1.00	10.00	MSF	1,000.00	107.00	1,070.00	10,700.00
8Z5433204880	Loader, Skid Steer, 30 H.P.	1.00	8.00	HR	32.62	100.00	32.62	260.99
Z-CLAB	Common Building Laborers	4.00	32.00	MH	49.00	100.00	49.00	1,568.00
Z-EQLT	Equipment Operators, Light Equipment	1.00	8.00	MH	62.00	100.00	62.00	496.00

Biditem - Parent

30-inch Ductile Iron Force Main Installed via Open

16

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	115,696.49	0.00	115,696.49	76,599.19	309,366.34	0.00	0.00	501,662.02
Total	115,696.49	0.00	115,696.49	76,599.19	309,366.34	0.00	0.00	501,662.02

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
1,990.3900	0.0005	1,990.3900	252.0421	58.1275	58.1275	0.0000

Subtotal

Force Main Items

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Misc 1	Misc 2	Misc 3	Total
Total	384,637.30	0.00	384,637.30	213,177.51	692,844.89	0.00	30,000.00	0.00	0.00	0.00	1,320,659.70

Biditem

Excavation

1601

Takeoff Qty: 1,021.000 LF

Bid Qty: 1,021.000 LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	34.14	0.00	34.14	18.53	0.00	0.00	0.00	52.66
Total	34,854.00	0.00	34,854.00	18,915.79	0.00	0.00	0.00	53,769.79

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
604.7700	1.6882	0.5923	88.9095	57.6318	57.6318	3.5257

Activity: 312316131370	Excavating, trench or continuous footing, common earth, 1 C.Y. excavator, 6' to10' deep, includes tr	Quantity: 1827.50	Unit: BCY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4.09	0.00	4.09	4.86	0.00	0.00	0.00	8.95
Total	7,468.00	0.00	7,468.00	8,884.68	0.00	0.00	0.00	16,352.68

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
8.9481	0.0219	45.6875	408.8170	5.0000	365.5000	0.0027	3,270.5360

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
120.0000	15.2292	0.0657	62.2333	4.0865

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS208 (Mod) RS Means Crew B13D

Prod: US 365.5

Eff: 100.00

Crew Hrs: 40.00

Labor Pcs: 3.00

Equipment Pcs: 3.00

Notes: Excavating, trench or continuous footing, common earth, 1 C.Y. excavator, 6' to10' deep, includes trench box, excludes dewaterinB.C.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8Z5433200150	Hyd. Excavator, 1 C.Y.	1.00	40.00	HR	123.32	100.00	123.32	4,932.80
8Z5433204710	F.E. Loader, W.M., 2.5 C.Y.	1.00	40.00	HR	82.36	100.00	82.36	3,294.44
8Z5433407040	Trench Box	1.00	40.00	HR	16.44	100.00	16.44	657.44

Z-CLAB	Common Building Laborers	1.00	40.00	MH	49.00	100.00	49.00	1,960.00
Z-EQHV	Equipment Operators, Crane or Shovel	2.00	80.00	MH	68.85	100.00	68.85	5,508.00

Activity: 312316133020	Excavating, trench backfill, 1 C.Y. bucket, minimal haul, front end loader, wheel mounted, excludes	Quantity: 1462.10	Unit: LCY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.50	0.00	2.50	1.08	0.00	0.00	0.00	3.58
Total	3,648.00	0.00	3,648.00	1,579.17	0.00	0.00	0.00	5,227.17

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3.5751	0.0219	45.6906	163.3491	4.0000	365.5250	0.0027	1,306.7925

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
64.0000	22.8453	0.0438	57.0000	2.4950

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS124 (Mod) RS Means Crew B10R Prod: US 365.525 Eff: 100.00 Crew Hrs: 32.00 Labor Pcs: 2.00 Equipment Pcs: 1.00

Notes: Excavating, trench backfill, 1 C.Y. bucket, minimal haul, front end loader, wheel mounted, excludes dewatering

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31231335	Cycle hauling(wait, load, travel, unload or dump &	1.00	1,462.10	LCY	0.00	107.00	0.00	0.00
8Z5433204610	F.E. Loader, W.M., 1 C.Y.	1.00	32.00	HR	49.35	100.00	49.35	1,579.17
Z-CLAB	Common Building Laborers	1.00	32.00	MH	49.00	100.00	49.00	1,568.00
Z-EQMD	Equipment Operators, Medium Equipment	1.00	32.00	MH	65.00	100.00	65.00	2,080.00

Activity: 312316133060	Excavating, trench backfill, 1 C.Y. bucket, 200' haul, front end loader, wheel mounted, excludes dew	Quantity: 1462.10	Unit: LCY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	9.36	0.00	9.36	4.05	0.00	0.00	0.00	13.41
Total	13,680.00	0.00	13,680.00	5,921.88	0.00	0.00	0.00	19,601.88

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
13.4067	0.0821	12.1842	163.3490	15.0000	97.4733	0.0103	1,306.7920

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
240.0000	6.0921	0.1641	57.0000	9.3564

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS124 (Mod) RS Means Crew B10R Prod: US 97.4733 Eff: 100.00 Crew Hrs: 120.00 Labor Pcs: 2.00 Equipment Pcs: 1.00

Notes: Excavating, trench backfill, 1 C.Y. bucket, 200' haul, front end loader, wheel mounted, excludes dewatering

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31231345	Cycle hauling(wait, load, travel, unload or dump &	1.00	1,462.10	LCY	0.00	107.00	0.00	0.00
8Z5433204610	F.E. Loader, W.M., 1 C.Y.	1.00	120.00	HR	49.35	100.00	49.35	5,921.88
Z-CLAB	Common Building Laborers	1.00	120.00	MH	49.00	100.00	49.00	5,880.00
Z-EQMD	Equipment Operators, Medium Equipment	1.00	120.00	MH	65.00	100.00	65.00	7,800.00

Activity: 312323160100	Fill by borrow and utility bedding, for pipe and conduit, crushed stone, 3/4" to 1/2", excludes comp	Quantity: 179.81	Unit: LCY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	8.53	0.00	8.53	2.63	0.00	0.00	0.00	11.17
Total	1,534.40	0.00	1,534.40	473.26	0.00	0.00	0.00	2,007.66

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
11.1655	0.0533	18.7499	209.3515	1.1987	149.9995	0.0067	1,674.8120

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
28.7700	6.2499	0.1600	53.3333	8.5335

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS500 (Mod) RS Means Crew B6 Prod: US 149.9995 Eff: 100.00 Crew Hrs: 9.59 Labor Pcs: 3.00 Equipment Pcs: 1.00

Notes: Fill by borrow and utility bedding, for pipe and conduit, crushed stone, 3/4" to 1/2", excludes compaction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31235095	Excavating, bulk, dozer, open site, bank measure,	1.00	179.81	BCY	0.00	107.00	0.00	0.00
8Z5433204610	F.E. Loader, W.M., 1 C.Y.	1.00	9.59	HR	49.35	100.00	49.35	473.26
Z-CLAB	Common Building Laborers	2.00	19.18	MH	49.00	100.00	49.00	939.82
Z-EQLT	Equipment Operators, Light Equipment	1.00	9.59	MH	62.00	100.00	62.00	594.58

Activity: 312323160500 Fill by borrow and utility bedding, for pipe and conduit, compacting bedding intrench Quantity: 179.81 Unit: BCY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4.36	0.00	4.36	1.60	0.00	0.00	0.00	5.96
Total	784.00	0.00	784.00	287.65	0.00	0.00	0.00	1,071.65

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
5.9599	0.0890	11.2381	66.9781	2.0000	89.9050	0.0111	535.8250

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
16.0000	11.2381	0.0890	49.0000	4.3602

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS028 RS Means Crew A1D Prod: US 89.905 Eff: 100.00 Crew Hrs: 16.00 Labor Pcs: 1.00 Equipment Pcs: 1.00

Notes: Fill by borrow and utility bedding, for pipe and conduit, compacting bedding intrench

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31235105	Excavating, bulk, dozer, open site, bank measure,	1.00	179.81	BCY	0.00	107.00	0.00	0.00
8Z5433201300	Vibrating Plate, Gas, 18"	1.00	16.00	HR	17.98	100.00	17.98	287.65
Z-CLAB	Common Building Laborers	1.00	16.00	MH	49.00	100.00	49.00	784.00

Activity: 312323237540 Compaction, 4 passes, 24" wide, 6" lifts, walk behind, vibrating roller Quantity: 1462.10 Unit: BCY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4.99	0.00	4.99	0.86	0.00	0.00	0.00	5.85
Total	7,296.00	0.00	7,296.00	1,260.03	0.00	0.00	0.00	8,556.03

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
5.8519	0.0438	22.8453	133.6880	8.0000	182.7625	0.0055	1,069.5038

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
128.0000	11.4227	0.0875	57.0000	4.9901

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS090 (Mod) RS Means Crew B10A Prod: US 182.7625 Eff: 100.00 Crew Hrs: 64.00 Labor Pcs: 2.00 Equipment Pcs: 1.00

Notes: Compaction, 4 passes, 24" wide, 6" lifts, walk behind, vibrating roller

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z312310890	Cycle hauling(wait, load, travel, unload or dump &	1.00	1,462.10	LCY	0.00	107.00	0.00	0.00
8Z5433201200	Roller, 2-Drum, W.B., 7.5 H.P.	1.00	64.00	HR	19.69	100.00	19.69	1,260.03
Z-CLAB	Common Building Laborers	1.00	64.00	MH	49.00	100.00	49.00	3,136.00
Z-EQMD	Equipment Operators, Medium Equipment	1.00	64.00	MH	65.00	100.00	65.00	4,160.00

Activity: 312323239040

Compaction, water for, 6,000 gallon wagon,
6 mile haul

Quantity: 1461.58

Unit: BCY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.30	0.00	0.30	0.35	0.00	0.00	0.00	0.65
Total	443.60	0.00	443.60	509.12	0.00	0.00	0.00	952.72

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.6518	0.0055	182.6975	119.0900	1.0000	1,461.5800	0.0007	952.7200

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
8.0000	182.6975	0.0055	55.4500	0.3035

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS490 RS Means Crew B59 Prod: US 1461.58 Eff: 100.00 Crew Hrs: 8.00 Labor Pcs: 1.00 Equipment Pcs: 2.00

Notes: Compaction, water for, 6,000 gallon wagon, 6 mile haul

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z312310990	Cycle hauling(wait, load, travel, unload or dump &	1.00	1,461.58	LCY	0.00	107.00	0.00	0.00
8Z5433406900	Water Tank Trailer, 5000 Gal.	1.00	8.00	HR	21.14	100.00	21.14	169.14
8Z5433407300	Truck Tractor, 220 H.P.	1.00	8.00	HR	42.50	100.00	42.50	339.98
Z-TRHV	Truck Drivers, Heavy	1.00	8.00	MH	55.45	100.00	55.45	443.60

Biditem

Haul material off-site

1602

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1,611.02	0.00	1,611.02	2,058.17	0.00	0.00	0.00	3,669.19
Total	1,611.02	0.00	1,611.02	2,058.17	0.00	0.00	0.00	3,669.19

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
28.8300	0.0347	28.8300	127.2699	55.8800	55.8800	0.0403

Activity: 312323144420

Backfill, structural, common earth, 200 HP
dozer, 300' haul, from existing stockpile,
excludes compa

Quantity: 365.50

Unit: LCY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.25	0.00	1.25	0.54	0.00	0.00	0.00	1.79
Total	456.00	0.00	456.00	197.40	0.00	0.00	0.00	653.40

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1.7877	0.0109	91.3750	163.3500	0.5000	731.0000	0.0014	1,306.8000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
8.0000	45.6875	0.0219	57.0000	1.2476

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS092 (Mod) RS Means Crew B10B Prod: US 731 Eff: 100.00 Crew Hrs: 4.00 Labor Pcs: 2.00 Equipment Pcs: 1.00

Notes: Backfill, structural, common earth, 200 HP dozer, 300' haul, from existing stockpile, excludes compaction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31234820	Excavating, bulk, dozer, open site, bank measure,	1.00	365.50	BCY	0.00	107.00	0.00	0.00
8Z5433204260	Dozer, 200 H.P.	0.00	0.00	HR	172.80	100.00	0.00	0.00
8Z5433204610	F.E. Loader, W.M., 1 C.Y.	1.00	4.00	HR	49.35	100.00	49.35	197.40
Z-CLAB	Common Building Laborers	1.00	4.00	MH	49.00	100.00	49.00	196.00
Z-EQMD	Equipment Operators, Medium Equipment	1.00	4.00	MH	65.00	100.00	65.00	260.00

Activity: 312323204710	Cycle hauling(wait, load, travel, unload or dump & return) time per cycle, excavated or borrow, loos	Quantity: 365.50	Unit: LCY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	3.16	0.00	3.16	5.09	0.00	0.00	0.00	8.25
Total	1,155.02	0.00	1,155.02	1,860.77	0.00	0.00	0.00	3,015.79

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
8.2511	0.0570	17.5439	144.7568	2.6042	140.3509	0.0071	1,158.0541

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
20.8300	17.5468	0.0570	55.4498	3.1601

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS362 RS Means Crew B34D Prod: US 140.3509 Eff: 100.00 Crew Hrs: 20.83 Labor Pcs: 1.00 Equipment Pcs: 2.00

Notes: Cycle hauling(wait, load, travel, unload or dump & return) time per cycle, excavated or borrow, loose cubic yards, 30 min load/wL.C.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31238570	Cycle hauling(wait, load, travel, unload or dump &	1.00	365.50	LCY	0.00	107.00	0.00	0.00
8Z5433205400	Dump Trailer, 20 C.Y.	1.00	20.83	HR	21.08	100.00	21.08	439.16
8Z5433407500	Truck Tractor, 6x4, 380 H.P.	1.00	20.83	HR	68.25	100.00	68.25	1,421.61
Z-TRHV	Truck Drivers, Heavy	1.00	20.83	MH	55.45	100.00	55.45	1,155.02

Biditem

1610

30-inch DIP

Takeoff Qty: 1,021.000 LF

Bid Qty: 1,021.000 LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	73.03	0.00	73.03	51.27	258.96	0.00	0.00	383.25
Total	74,559.47	0.00	74,559.47	52,344.11	264,399.59	0.00	0.00	391,303.17

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
1,276.7900	0.7997	1.2505	306.4742	58.3960	58.3960	3.9915

Activity: 330597100400	Utility line signs, markers, and flags, underground tape, detectable, reinforced, aluminum foil core	(Unreviewed)	Quantity: 10.21	Unit: CLF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.59	0.00	2.59	0.00	2.14	0.00	0.00	4.73
Total	26.46	0.00	26.46	0.00	21.85	0.00	0.00	48.31

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.5916	0.0530	18.8690	48.9004	0.0676	150.9518	0.0066	714.2488

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.5400	18.9074	0.0529	49.0000	2.5916

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1140 (Mod) RS Means Crew CLAB Prod: US 150.9518 Eff: 100.00 Crew Hrs: 0.54 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Utility line signs, markers, and flags, underground tape, detectable, reinforced, aluminum foil core, 2", excludes excavation anC.L.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z33051510	Utility line signs, markers, and flags, underground	1.00	10.21	CLF	2.00	107.00	2.14	21.85
Z-CLAB	Common Building Laborers	1.00	0.54	MH	49.00	100.00	49.00	26.46

Activity: 331413152260	Wastewater piping, ductile iron pipe, 30" diam, mechanical joint, no fittings, 18' length	Quantity: 1021.00	Unit: LF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	73.00	0.00	73.00	51.27	258.94	0.00	0.00	383.21
Total	74,533.01	0.00	74,533.01	52,344.11	264,377.74	0.00	0.00	391,254.86

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
124.2675	0.2500	4.0000	497.0700	31.9063	32.0000	0.0313	12,262.6401

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1,276.2500	0.8000	1.2500	58.4000	73.0000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS284 RS Means Crew B21 Prod: US 32 Eff: 100.00 Crew Hrs: 255.25 Labor Pcs: 5.00 Equipment Pcs: 2.00

Notes: Core Main quote 30" + P-401: \$177/LF + \$40/LF= \$217/LF

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2B0057	# 57 (1-#4)	1.00	1,021.00	TN	25.00	107.00	26.75	27,311.75
2Z33141200	Water supply distribution piping, ductile iron pip	1.00	1,021.00	LF	217.00	107.00	232.19	237,065.99
8Z5433200200	Hyd. Excavator, 1.5 C.Y.	1.00	255.25	HR	148.16	100.00	148.15	37,816.56
8Z5433204620	F.E. Loader, W.M., 1.5 C.Y.	1.00	255.25	HR	56.92	100.00	56.91	14,527.55
Z-CLAB	Common Building Laborers	1.00	255.25	MH	49.00	100.00	49.00	12,507.25
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	255.25	MH	49.50	100.00	49.50	12,634.88
Z-EQMD	Equipment Operators, Medium Equipment	2.00	510.50	MH	65.00	100.00	65.00	33,182.50
Z-SKWK	Skilled Workers Average (35 trades)	1.00	255.25	MH	63.50	100.00	63.50	16,208.38

Biditem

1612

Plug Valve, 30"

Takeoff Qty: 1.000 EA

Bid Qty: 1.000 EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4,672.00	0.00	4,672.00	3,281.12	44,966.75	0.00	0.00	52,919.87
Total	4,672.00	0.00	4,672.00	3,281.12	44,966.75	0.00	0.00	52,919.87

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
80.0000	0.0125	80.0000	661.4984	58.4000	58.4000	0.0625

Activity: 331413152277 30" Plug Valve (Unreviewed) Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4,672.00	0.00	4,672.00	3,281.12	44,966.75	0.00	0.00	52,919.87
Total	4,672.00	0.00	4,672.00	3,281.12	44,966.75	0.00	0.00	52,919.87

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
7,953.1200	16.0000	0.0625	497.0700	2.0000	0.5000	2.0000	26,459.9350

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
80.0000	0.0125	80.0000	58.4000	4,672.0000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS284 RS Means Crew B21 Prod: US 0.5 Eff: 100.00 Crew Hrs: 16.00 Labor Pcs: 5.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2B0057	# 57 (1-#4)	1.00	1.00	TN	25.00	107.00	26.75	26.75
2PLUG30	30" Plug Valve	1.00	1.00	EA	42,000.00	107.00	44,940.00	44,940.00
8Z5433200200	Hyd. Excavator, 1.5 C.Y.	1.00	16.00	HR	148.16	100.00	148.16	2,370.48
8Z5433204620	F.E. Loader, W.M., 1.5 C.Y.	1.00	16.00	HR	56.92	100.00	56.92	910.64
Z-CLAB	Common Building Laborers	1.00	16.00	MH	49.00	100.00	49.00	784.00
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	16.00	MH	49.50	100.00	49.50	792.00

Z-EQMD	Equipment Operators, Medium Equipment	2.00	32.00	MH	65.00	100.00	65.00	2,080.00
Z-SKWK	Skilled Workers Average (35 trades)	1.00	16.00	MH	63.50	100.00	63.50	1,016.00

Biditem - Parent

17

Ductile Iron Fittings - Epoxy Lined

Takeoff Qty: 21,278.000 LB

Bid Qty: 21,278.000 LB

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4.31	0.00	4.31	3.03	13.22	0.00	0.00	20.56
Total	91,688.00	0.00	91,688.00	64,391.98	281,361.89	0.00	0.00	437,441.87

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
1,570.0000	13.5529	0.0738	278.6254	58.4000	58.4000	0.0000

Subtotal

Force Main Items

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Misc 1	Misc 2	Misc 3	Total
Total	384,637.30	0.00	384,637.30	213,177.51	692,844.89	0.00	30,000.00	0.00	0.00	0.00	1,320,659.70

Biditem

1701

Fittings - Installation

Takeoff Qty: 16.000 EA

Bid Qty: 16.000 EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	5,730.50	0.00	5,730.50	4,024.50	0.00	0.00	0.00	9,755.00
Total	91,688.00	0.00	91,688.00	64,391.98	0.00	0.00	0.00	156,079.98

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
1,570.0000	0.0102	98.1250	99.4140	58.4000	58.4000	0.0510

Activity: 331417158441Wastewater, fitting, dresser coupling, 30" diameter

Quantity: 1.00

Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2,336.00	0.00	2,336.00	1,640.56	0.00	0.00	0.00	3,976.56
Total	2,336.00	0.00	2,336.00	1,640.56	0.00	0.00	0.00	3,976.56

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3,976.5600	8.0000	0.1250	497.0700	1.0000	1.0000	1.0000	3,976.5600

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
40.0000	0.0250	40.0000	58.4000	2,336.0000

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS284

RS Means Crew B21

Prod: 0

Eff: 100.00

Crew Hrs: 8.00

Labor Pcs: 5.00

Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8Z5433200200	Hyd. Excavator, 1.5 C.Y.	1.00	8.00	HR	148.16	100.00	148.16	1,185.24
8Z5433204620	F.E. Loader, W.M., 1.5 C.Y.	1.00	8.00	HR	56.92	100.00	56.92	455.32
Z-CLAB	Common Building Laborers	1.00	8.00	MH	49.00	100.00	49.00	392.00
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	8.00	MH	49.50	100.00	49.50	396.00
Z-EQMD	Equipment Operators, Medium Equipment	2.00	16.00	MH	65.00	100.00	65.00	1,040.00
Z-SKWK	Skilled Workers Average (35 trades)	1.00	8.00	MH	63.50	100.00	63.50	508.00

Activity: 331413158181	Wastewater, fitting, ductile iron, 45 degree bend, 30" diameter	Quantity: 5.00	Unit: EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2,920.00	0.00	2,920.00	2,050.70	0.00	0.00	0.00	4,970.70
Total	14,600.00	0.00	14,600.00	10,253.50	0.00	0.00	0.00	24,853.50

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
4,970.7000	10.0000	0.1000	497.0700	6.2500	0.8000	1.2500	3,976.5600

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
250.0000	0.0200	50.0000	58.4000	2,920.0000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS284 RS Means Crew B21 Prod: MU 50 Eff: 100.00 Crew Hrs: 50.00 Labor Pcs: 5.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8Z5433200200	Hyd. Excavator, 1.5 C.Y.	1.00	50.00	HR	148.16	100.00	148.16	7,407.75
8Z5433204620	F.E. Loader, W.M., 1.5 C.Y.	1.00	50.00	HR	56.92	100.00	56.92	2,845.75
Z-CLAB	Common Building Laborers	1.00	50.00	MH	49.00	100.00	49.00	2,450.00
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	50.00	MH	49.50	100.00	49.50	2,475.00
Z-EQMD	Equipment Operators, Medium Equipment	2.00	100.00	MH	65.00	100.00	65.00	6,500.00
Z-SKWK	Skilled Workers Average (35 trades)	1.00	50.00	MH	63.50	100.00	63.50	3,175.00

Activity: 331413158182	Wastewater, fitting, ductile iron, 22.5 degree bend, 30" diameter	Quantity: 2.00	Unit: EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2,920.00	0.00	2,920.00	2,050.70	0.00	0.00	0.00	4,970.70
Total	5,840.00	0.00	5,840.00	4,101.40	0.00	0.00	0.00	9,941.40

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
4,970.7000	10.0000	0.1000	497.0700	2.5000	0.8000	1.2500	3,976.5600

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
100.0000	0.0200	50.0000	58.4000	2,920.0000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS284 RS Means Crew B21 Prod: S 2.5 Eff: 100.00 Crew Hrs: 20.00 Labor Pcs: 5.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8Z5433200200	Hyd. Excavator, 1.5 C.Y.	1.00	20.00	HR	148.16	100.00	148.16	2,963.10
8Z5433204620	F.E. Loader, W.M., 1.5 C.Y.	1.00	20.00	HR	56.92	100.00	56.92	1,138.30
Z-CLAB	Common Building Laborers	1.00	20.00	MH	49.00	100.00	49.00	980.00
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	20.00	MH	49.50	100.00	49.50	990.00
Z-EQMD	Equipment Operators, Medium Equipment	2.00	40.00	MH	65.00	100.00	65.00	2,600.00
Z-SKWK	Skilled Workers Average (35 trades)	1.00	20.00	MH	63.50	100.00	63.50	1,270.00

Activity: 331413158183	Wastewater, fitting, ductile iron, 11.25 degree bend, 30" diameter	Quantity: 6.00	Unit: EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2,920.00	0.00	2,920.00	2,050.70	0.00	0.00	0.00	4,970.70
Total	17,520.00	0.00	17,520.00	12,304.20	0.00	0.00	0.00	29,824.20

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
4,970.7000	10.0000	0.1000	497.0700	7.5000	0.8000	1.2500	3,976.5600

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
300.0000	0.0200	50.0000	58.4000	2,920.0000

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS284 RS Means Crew B21Prod: S7.5Eff: 100.00Crew Hrs: 60.00Labor Pcs: 5.00Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8Z5433200200	Hyd. Excavator, 1.5 C.Y.	1.00	60.00	HR	148.16	100.00	148.16	8,889.30
8Z5433204620	F.E. Loader, W.M., 1.5 C.Y.	1.00	60.00	HR	56.92	100.00	56.92	3,414.90
Z-CLAB	Common Building Laborers	1.00	60.00	MH	49.00	100.00	49.00	2,940.00
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	60.00	MH	49.50	100.00	49.50	2,970.00
Z-EQMD	Equipment Operators, Medium Equipment	2.00	120.00	MH	65.00	100.00	65.00	7,800.00
Z-SKWK	Skilled Workers Average (35 trades)	1.00	60.00	MH	63.50	100.00	63.50	3,810.00

Activity: 331413158791Wastewater, fitting, joint restraint, 30" diameterQuantity: 33.00Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1,557.33	0.00	1,557.33	1,093.71	0.00	0.00	0.00	2,651.04
Total	51,392.00	0.00	51,392.00	36,092.32	0.00	0.00	0.00	87,484.32

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2,651.0400	5.3333	0.1875	497.0700	22.0000	1.5000	0.6667	3,976.5600

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
880.0000	0.0375	26.6667	58.4000	1,557.3333

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS284 RS Means Crew B21Prod: S22Eff: 100.00Crew Hrs: 176.00Labor Pcs: 5.00Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8Z5433200200	Hyd. Excavator, 1.5 C.Y.	1.00	176.00	HR	148.16	100.00	148.16	26,075.28
8Z5433204620	F.E. Loader, W.M., 1.5 C.Y.	1.00	176.00	HR	56.92	100.00	56.92	10,017.04
Z-CLAB	Common Building Laborers	1.00	176.00	MH	49.00	100.00	49.00	8,624.00
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	176.00	MH	49.50	100.00	49.50	8,712.00
Z-EQMD	Equipment Operators, Medium Equipment	2.00	352.00	MH	65.00	100.00	65.00	22,880.00
Z-SKWK	Skilled Workers Average (35 trades)	1.00	176.00	MH	63.50	100.00	63.50	11,176.00

BiditemFittings - Material Only

1702Takeoff Qty: 16.000 EABid Qty: 16.000 EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.00	0.00	0.00	0.00	17,585.12	0.00	0.00	17,585.12
Total	0.00	0.00	0.00	0.00	281,361.89	0.00	0.00	281,361.89

Activity: 331413158362Ductile iron, fittings, tee, 30" diameter (1,270 lbs/ea)Quantity: 1.00Unit: EA

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

ResourceDescriptionPcs/WsteQuantityUnitUnit CostTax/OT %Actual UCTotal

2FITTINGSFittings1.001.00EA21,071.00107.0022,545.9722,545.97

Activity: 331413158441Ductile iron, fittings, 45 degree bend, 30" diameter (879 lbs/ea)Quantity: 5.00Unit: EA

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

ResourceDescriptionPcs/WsteQuantityUnitUnit CostTax/OT %Actual UCTotal

2FITTINGSFittings1.005.00EA12,195.00107.0013,048.6565,243.25

Activity:	331413158442	Ductile iron, fittings, 22.5 degree bend, 30" diameter (670 lbs/ea)	Quantity:	2.00	Unit:	EA
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Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2FITTINGS	Fittings	1.00	2.00	EA	10,238.00	107.00	10,954.66	21,909.32

Activity:	331413158443	Ductile iron, fittings, 11.25 degree bend, 30" diameter (571 lbs/ea)	Quantity:	6.00	Unit:	EA
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Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2FITTINGS	Fittings	1.00	6.00	EA	9,211.00	107.00	9,855.77	59,134.62

Activity:	331413158795	Ductile iron, fittings, joint restraint, 30" diam w/ accesories (299 lbs/ea)	Quantity:	33.00	Unit:	EA
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Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2FITTINGS	Fittings	1.00	33.00	EA	3,186.88	107.00	3,409.96	112,528.73

Biditem - Parent

18

Air Release Valve Assembly

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2,971.51	0.00	2,971.51	249.14	13,194.18	0.00	0.00	16,414.83
Total	2,971.51	0.00	2,971.51	249.14	13,194.18	0.00	0.00	16,414.83

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
47.4100	0.0211	47.4100	346.2314	62.6769	62.6769	0.0000

Subtotal

Force Main Items

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Misc 1	Misc 2	Misc 3	Total
Total	384,637.30	0.00	384,637.30	213,177.51	692,844.89	0.00	30,000.00	0.00	0.00	0.00	1,320,659.70

Biditem

1801

ARV Assembly

Takeoff Qty: 4.000 EA

Bid Qty: 4.000 EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	403.48	0.00	403.48	0.00	2,756.99	0.00	0.00	3,160.47
Total	1,613.92	0.00	1,613.92	0.00	11,027.96	0.00	0.00	12,641.88

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
22.4000	0.1786	5.6000	564.3696	72.0500	72.0500	0.2567

Activity:	331413457168	Water supply distribution piping, fittings, brass, corporation stops, no lead, 2" diameter	Quantity:	4.00	Unit:	EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	52.42	0.00	52.42	0.00	107.00	0.00	0.00	159.42
Total	209.67	0.00	209.67	0.00	428.00	0.00	0.00	637.67

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
52.4175	0.7270	1.3755	72.1011	0.3635	11.0041	0.0909	1,754.2503

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
2.9100	1.3746	0.7275	72.0515	52.4175

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1160 RS Means Crew PLUM Prod: US 11.0041 Eff: 100.00 Crew Hrs: 2.91 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Water supply distribution piping, fittings, brass, corporation stops, no lead, 2" diameter, excludes excavation or backfill

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z33142920	Water supply distribution piping, fittings, brass,	1.00	4.00	EA	100.00	107.00	107.00	428.00
Z-PLUM	Plumbers	1.00	2.91	MH	72.05	100.00	72.05	209.67

Activity: 221113162720 Coupling, brass, rough bronze, threaded, standard weight, 3" Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	115.28	0.00	115.28	0.00	131.61	0.00	0.00	246.89
Total	115.28	0.00	115.28	0.00	131.61	0.00	0.00	246.89

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
115.2800	0.8000	1.2500	144.1000	0.1000	10.0000	0.1000	2,468.9000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1.6000	0.6250	1.6000	72.0500	115.2800

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS934 RS Means Crew Q1 Prod: US 10 Eff: 100.00 Crew Hrs: 0.80 Labor Pcs: 2.00 Equipment Pcs: 0.00

Notes: Coupling, brass, rough bronze, threaded, standard weight, 3"

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z22111305	Cap, steel, carbon steel, black, butt weld, extra	1.00	1.00	EA	123.00	107.00	131.61	131.61
Z-PLUM	Plumbers	1.00	0.80	MH	72.05	100.00	72.05	57.64
Z-PLUM-APPR	Plumbers - Apprentice	1.00	0.80	MH	72.05	100.00	72.05	57.64

Activity: 221113162680 Coupling, brass, rough bronze, threaded, standard weight, 2" Quantity: 3.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	63.89	0.00	63.89	0.00	47.62	0.00	0.00	111.50
Total	191.66	0.00	191.66	0.00	142.85	0.00	0.00	334.51

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
63.8867	0.4445	2.2497	143.7270	0.1667	17.9978	0.0556	2,006.8091

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
2.6600	1.1278	0.8867	72.0526	63.8867

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS934 RS Means Crew Q1 Prod: US 17.9978 Eff: 100.00 Crew Hrs: 1.33 Labor Pcs: 2.00 Equipment Pcs: 0.00

Notes: Coupling, brass, rough bronze, threaded, standard weight, 2"

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z22111295	Cap, steel, carbon steel, black, butt weld, extra	1.00	3.00	EA	44.50	107.00	47.62	142.85
Z-PLUM	Plumbers	1.00	1.33	MH	72.05	100.00	72.05	95.83
Z-PLUM-APPR	Plumbers - Apprentice	1.00	1.33	MH	72.05	100.00	72.05	95.83

Activity: 221113741120 Pipe, plastic, PVC, high impact/pressure, 2" diameter, schedule 80 Quantity: 15.00 Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	20.94	0.00	20.94	0.00	192.60	0.00	0.00	213.54
Total	314.14	0.00	314.14	0.00	2,889.00	0.00	0.00	3,203.14

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
20.9427	0.1455	6.8729	143.9359	0.2728	54.9828	0.0182	11,741.1775
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
4.3600	3.4404	0.2907	72.0505	20.9427			

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS934 RS Means Crew Q1 Prod: US 54.9828 Eff: 100.00 Crew Hrs: 2.18 Labor Pcs: 2.00 Equipment Pcs: 0.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z221117605	Pressure regulator, process steam, wet or superhea	1.00	15.00	LF	180.00	107.00	192.60	2,889.00
Z-PLUM	Plumbers	1.00	2.18	MH	72.05	100.00	72.05	157.07
Z-PLUM-APPR	Plumbers - Apprentice	1.00	2.18	MH	72.05	100.00	72.05	157.07

Activity: 221113741140 Pipe, plastic, PVC, high impact/pressure, 3" diameter, schedule 80 Quantity: 5.00 Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	23.06	0.00	23.06	0.00	267.50	0.00	0.00	290.56
Total	115.28	0.00	115.28	0.00	1,337.50	0.00	0.00	1,452.78

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
23.0560	0.1600	6.2500	144.1000	0.1000	50.0000	0.0200	14,527.8000
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
1.6000	3.1250	0.3200	72.0500	23.0560			

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS934 RS Means Crew Q1 Prod: US 50 Eff: 100.00 Crew Hrs: 0.80 Labor Pcs: 2.00 Equipment Pcs: 0.00

Notes: Pipe, plastic, PVC, high impact/pressure, 3" diameter, schedule 80, includes couplings 10' OC, and hangers 3 per 10'

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z221117610	Union, copper, cast, copper x copper, 5/8"	1.00	5.00	EA	250.00	107.00	267.50	1,337.50
Z-PLUM	Plumbers	1.00	0.80	MH	72.05	100.00	72.05	57.64
Z-PLUM-APPR	Plumbers - Apprentice	1.00	0.80	MH	72.05	100.00	72.05	57.64

Activity: 220523201500 Valves, bronze body, ball, 150 psi, 2", threaded or soldered Quantity: 3.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	52.36	0.00	52.36	0.00	143.38	0.00	0.00	195.74
Total	157.07	0.00	157.07	0.00	430.14	0.00	0.00	587.21

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
52.3567	0.7270	1.3755	72.0174	0.2726	11.0041	0.0909	2,153.9110
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
2.1800	1.3761	0.7267	72.0505	52.3567			

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1160 RS Means Crew PLUM Prod: US 11.0041 Eff: 100.00 Crew Hrs: 2.18 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Valves, bronze body, ball, 150 psi, 2", threaded or soldered

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z22051745	Valves, bronze body, ball, 150 psi, 2", threaded o	1.00	3.00	EA	134.00	107.00	143.38	430.14
Z-PLUM	Plumbers	1.00	2.18	MH	72.05	100.00	72.05	157.07

Activity: 220523201520 Valves, bronze body, ball, 150 psi, 3", threaded or soldered Quantity: 1.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
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U. Cost	72.05	0.00	72.05	0.00	749.00	0.00	0.00	821.05
Total	72.05	0.00	72.05	0.00	749.00	0.00	0.00	821.05

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
72.0500	1.0000	1.0000	72.0500	0.1250	8.0000	0.1250	6,568.4000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1.0000	1.0000	1.0000	72.0500	72.0500

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1160 RS Means Crew PLUM Prod: US 8 Eff: 100.00 Crew Hrs: 1.00 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Valves, bronze body, ball, 150 psi, 3", threaded or soldered

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z22051755	Valves, bronze body, ball, 150 psi, 3", threaded o	1.00	1.00	EA	700.00	107.00	749.00	749.00
Z-PLUM	Plumbers	1.00	1.00	MH	72.05	100.00	72.05	72.05

Activity: 221113141220 Pipe, brass, plain end, regular weight, 2" diameter, field threaded Quantity: 3.00 Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	21.61	0.00	21.61	0.00	105.93	0.00	0.00	127.54
Total	64.84	0.00	64.84	0.00	317.79	0.00	0.00	382.63

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
21.6133	0.1510	6.6225	143.1347	0.0566	52.9801	0.0189	6,757.2627

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.9000	3.3333	0.3000	72.0444	21.6133

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS934 RS Means Crew Q1 Prod: US 52.9801 Eff: 100.00 Crew Hrs: 0.45 Labor Pcs: 2.00 Equipment Pcs: 0.00

Notes: Pipe, brass, plain end, regular weight, 2" diameter, field threaded, includes coupling & clevis hanger assembly 10' OC

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z22111025	Elbow, 90 Deg., steel, carbon steel, black, long,	1.00	3.00	EA	99.00	107.00	105.93	317.79
Z-PLUM	Plumbers	1.00	0.45	MH	72.05	100.00	72.04	32.42
Z-PLUM-APPR	Plumbers - Apprentice	1.00	0.45	MH	72.05	100.00	72.04	32.42

Activity: 221113141260 Pipe, brass, plain end, regular weight, 3" diameter, field threaded Quantity: 1.00 Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	37.46	0.00	37.46	0.00	268.57	0.00	0.00	306.03
Total	37.46	0.00	37.46	0.00	268.57	0.00	0.00	306.03

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
37.4600	0.2580	3.8760	145.1938	0.0323	31.0078	0.0323	9,489.3023

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.5200	1.9231	0.5200	72.0385	37.4600

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS934 RS Means Crew Q1 Prod: US 31.0078 Eff: 100.00 Crew Hrs: 0.26 Labor Pcs: 2.00 Equipment Pcs: 0.00

Notes: Pipe, brass, plain end, regular weight, 3" diameter, field threaded, includes coupling & clevis hanger assembly 10' OC

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z22111035	Elbow, 90 Deg., steel, carbon steel, black, long,	1.00	1.00	EA	251.00	107.00	268.57	268.57
Z-PLUM	Plumbers	1.00	0.26	MH	72.05	100.00	72.04	18.73
Z-PLUM-APPR	Plumbers - Apprentice	1.00	0.26	MH	72.05	100.00	72.04	18.73

Activity: 331419201120

Water utility distribution valve, air release & vacuum valve, 2" diameter

Quantity: 3.00

Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	64.12	0.00	64.12	0.00	909.50	0.00	0.00	973.62
Total	192.37	0.00	192.37	0.00	2,728.50	0.00	0.00	2,920.87

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
64.1233	0.8890	1.1249	72.1297	0.3334	8.9989	0.1111	8,761.5148

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
2.6700	1.1236	0.8900	72.0487	64.1233

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS1160

RS Means Crew PLUM

Prod: US

8.9989

Eff: 100.00

Crew Hrs: 2.67

Labor Pcs: 1.00

Equipment Pcs: 0.00

Notes: Water utility distribution valve, air release & vacuum valve, 2" diameter, excludes excavation and backfill

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z33143850	Water utility distribution valve, air release & va	1.00	3.00	EA	850.00	107.00	909.50	2,728.50
Z-PLUM	Plumbers	1.00	2.67	MH	72.05	100.00	72.05	192.37

Activity: 331419201130

Water utility distribution valve, air release & vacuum valve, 3" diameter

Quantity: 1.00

Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	144.10	0.00	144.10	0.00	1,605.00	0.00	0.00	1,749.10
Total	144.10	0.00	144.10	0.00	1,605.00	0.00	0.00	1,749.10

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
144.1000	1.0000	1.0000	144.1000	0.1250	8.0000	0.1250	13,992.8000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
2.0000	0.5000	2.0000	72.0500	144.1000

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS934

RS Means Crew Q1

Prod: US

8

Eff: 100.00

Crew Hrs: 1.00

Labor Pcs: 2.00

Equipment Pcs: 0.00

Notes: Water utility distribution valve, air release & vacuum valve, 3" diameter, excludes excavation and backfill

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z33143855	Water utility distribution valve, air release & va	1.00	1.00	EA	1,500.00	107.00	1,605.00	1,605.00
Z-PLUM	Plumbers	1.00	1.00	MH	72.05	100.00	72.05	72.05
Z-PLUM-APPR	Plumbers - Apprentice	1.00	1.00	MH	72.05	100.00	72.05	72.05

Biditem

1802

Valve housing

Takeoff Qty: 4.000 EA

Bid Qty: 4.000 EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	339.40	0.00	339.40	62.29	541.56	0.00	0.00	943.24
Total	1,357.59	0.00	1,357.59	249.14	2,166.22	0.00	0.00	3,772.95

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
25.0100	0.1599	6.2525	150.8577	54.2819	54.2819	0.4221

Activity: 030513250950

Aggregate, sand, washed, for concrete, loaded at the pit, prices per C.Y.

Quantity: 1.70

Unit: CY

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Notes: Aggregate, sand, washed, for concrete, loaded at the pit, prices per C.Y., includes material only

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
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2Z03051315	Aggregate, sand, washed, for concrete, loaded at t	1.00	1.70	CY	60.00	107.00	64.20	109.14
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Activity: 033053404700	Structural concrete, in place, slab on grade (3500 psi), 8" thick, includes forms(4 uses), Grade 60	Quantity: 2.50	Unit: CY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	68.68	0.00	68.68	0.40	236.47	0.00	0.00	305.56
Total	171.71	0.00	171.71	1.00	591.18	0.00	0.00	763.89

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
69.0840	0.1081	9.2524	639.1932	0.0338	74.0192	0.0135	22,617.0244

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
2.9700	0.8418	1.1880	57.8148	68.6840

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS688 RS Means Crew C14E Prod: US 74.0192 Eff: 100.00 Crew Hrs: 0.27 Labor Pcs: 11.00 Equipment Pcs: 1.00

Notes: Structural concrete, in place, slab on grade (3500 psi), 6" thick, includes forms(4 uses), Grade 60 rebar, concrete (Portland ceC.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03301445	Structural concrete, in place, slab on grade (3500	1.00	2.50	CY	221.00	107.00	236.47	591.18
8Z5433103000	Gas Engine Vibrator	1.00	0.27	HR	3.71	100.00	3.70	1.00
Z-CARP	Carpenters	2.00	0.54	MH	58.60	100.00	58.59	31.64
Z-CARP-FORO	Carpenters - Foreman	1.00	0.27	MH	58.60	100.00	58.59	15.82
Z-CEFI	Cement Finishers	1.00	0.27	MH	55.00	100.00	55.00	14.85
Z-CLAB	Common Building Laborers	3.00	0.81	MH	49.00	100.00	49.00	39.69
Z-RODM	Rodmen (Reinforcing)	4.00	1.08	MH	64.55	100.00	64.55	69.71

Activity: 330561100200	Manholes, frames and covers, brick, 4' inside diameter	Quantity: 4.00	Unit: VLF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	208.30	0.00	208.30	0.00	160.50	0.00	0.00	368.80
Total	833.20	0.00	833.20	0.00	642.00	0.00	0.00	1,475.20

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
208.3000	2.0000	0.5000	104.1500	1.0000	4.0000	0.2500	1,475.2000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
16.0000	0.2500	4.0000	52.0750	208.3000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS770 RS Means Crew D1 Prod: US 4 Eff: 100.00 Crew Hrs: 8.00 Labor Pcs: 2.00 Equipment Pcs: 0.00

Notes: Storm drainage manholes, frames and covers, brick, 4' inside diameter, excludesfooting, excavation, backfill, frame and cover, aV.L.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z33051200	Storm drainage manholes, frames and covers, brick,	1.00	4.00	VLF	150.00	107.00	160.50	642.00
Z-BRHE	Bricklayer Helpers	1.00	8.00	MH	46.65	100.00	46.65	373.20
Z-BRIC	Bricklayers	1.00	8.00	MH	57.50	100.00	57.50	460.00

Activity: 331413253060	Water supply distribution piping, piping polyvinyl chloride, 20" diameter, AWWAC905, (Unreviewed) PR 100, DR 25,	Quantity: 20.00	Unit: LF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	17.63	0.00	17.63	12.41	41.20	0.00	0.00	71.24
Total	352.68	0.00	352.68	248.14	823.90	0.00	0.00	1,424.72

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
30.0410	0.0603	16.5906	498.3990	0.1507	132.7250	0.0075	9,454.7988

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
6.0400	3.3113	0.3020	58.3907	17.6340

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS284 RS Means Crew B21Prod: US 132.725 Eff: 100.00Crew Hrs: 1.21Labor Pcs: 5.00Equipment Pcs: 2.00

Notes: Water supply distribution piping, piping polyvinyl chloride, 20" diameter, AWWAC905, PR 100, DR 25, excludes excavation or backfill.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z33141735	Water supply distribution piping, piping polyvinyl	1.00	20.00	LF	38.50	107.00	41.20	823.90
8Z5433200200	Hyd. Excavator, 1.5 C.Y.	1.00	1.21	HR	148.16	100.00	148.16	179.27
8Z5433204620	F.E. Loader, W.M., 1.5 C.Y.	1.00	1.21	HR	56.92	100.00	56.92	68.87
Z-CLAB	Common Building Laborers	1.00	1.21	MH	49.00	100.00	49.00	59.29
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	1.21	MH	49.50	100.00	49.50	59.90
Z-EQMD	Equipment Operators, Medium Equipment	2.00	2.41	MH	65.00	100.00	65.00	156.65
Z-SKWK	Skilled Workers Average (35 trades)	1.00	1.21	MH	63.50	100.00	63.50	76.84

Biditem19

Force Main Testing and Certification

Takeoff Qty: 1.000 LSBid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	35,040.00	0.00	35,040.00	24,608.40	0.00	0.00	0.00	59,648.40
Total	35,040.00	0.00	35,040.00	24,608.40	0.00	0.00	0.00	59,648.40

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
600.0000	0.0017	600.0000	99.4140	58.4000	58.4000	0.0083

Activity: 331413152260Wastewater piping, test crew(Unreviewed)Quantity: 1021.00Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	34.32	0.00	34.32	24.10	0.00	0.00	0.00	58.42
Total	35,040.00	0.00	35,040.00	24,608.40	0.00	0.00	0.00	59,648.40

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
58.4215	0.1175	8.5083	497.0700	15.0000	68.0667	0.0147	3,976.5600

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
600.0000	1.7017	0.5877	58.4000	34.3193

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS284 RS Means Crew B21Prod: US 68.0667 Eff: 100.00Crew Hrs: 120.00Labor Pcs: 5.00Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8Z5433200200	Hyd. Excavator, 1.5 C.Y.	1.00	120.00	HR	148.16	100.00	148.16	17,778.60
8Z5433204620	F.E. Loader, W.M., 1.5 C.Y.	1.00	120.00	HR	56.92	100.00	56.92	6,829.80
Z-CLAB	Common Building Laborers	1.00	120.00	MH	49.00	100.00	49.00	5,880.00
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	120.00	MH	49.50	100.00	49.50	5,940.00
Z-EQMD	Equipment Operators, Medium Equipment	2.00	240.00	MH	65.00	100.00	65.00	15,600.00
Z-SKWK	Skilled Workers Average (35 trades)	1.00	120.00	MH	63.50	100.00	63.50	7,620.00

Biditem - Parent20

Abandonment of 30-inch Force Main via Grout-Fill

Takeoff Qty: 1.000 LSBid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	109,793.77	0.00	109,793.77	32,364.48	24,174.24	0.00	0.00	166,332.49
Total	109,793.77	0.00	109,793.77	32,364.48	24,174.24	0.00	0.00	166,332.49

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
1,975.8200	0.0005	1,975.8200	84.1840	55.5687	55.5687	0.0000

Subtotal

Force Main Items

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Misc 1	Misc 2	Misc 3	Total
Total	384,637.30	0.00	384,637.30	213,177.51	692,844.89	0.00	30,000.00	0.00	0.00	0.00	1,320,659.70

Biditem

2001

Grout-in-Place

Takeoff Qty: 790.000 LFBid Qty: 790.000 LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	134.46	0.00	134.46	37.10	30.60	0.00	0.00	202.15
Total	106,221.13	0.00	106,221.13	29,305.76	24,174.24	0.00	0.00	159,701.13

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
1,915.2200	0.4125	2.4243	83.3853	55.4616	55.4616	1.6768

Activity: 033113354350Structural concrete, ready mix, flowable fill, structural, 1000 psiQuantity: 145.00Unit: CY

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Notes: Structural concrete, ready mix, flowable fill, structural, 1000 psi, includes ash, Portland cement Type I, aggregate, sand and w.C.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03311270	Structural concrete, ready mix, flowable fill, str	1.10	159.50	CY	78.50	107.00	83.99	13,397.20

Activity: 040516300250Grout, flowable fill, 50 C.F./hr., pumpedQuantity: 145.00Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	469.63	0.00	469.63	43.71	0.00	0.00	0.00	513.34
Total	68,096.00	0.00	68,096.00	6,337.92	0.00	0.00	0.00	74,433.92

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
513.3374	2.2069	0.4531	232.6060	40.0000	3.6250	0.2759	1,860.8480

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1,280.0000	0.1133	8.8276	53.2000	469.6276

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS786 RS Means Crew D4Prod: US 3.625Eff: 100.00Crew Hrs: 320.00Labor Pcs: 4.00Equipment Pcs: 1.00

Notes: Grout, concrete masonry unit (CMU) cores, 8" thick, 0.258 C.F./S.F., pumped, excludes blockwork

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8Z5433102160	Grout Pump, 50 C.F./hr.	1.00	320.00	HR	19.81	100.00	19.81	6,337.92
Z-BRHE	Bricklayer Helpers	2.00	640.00	MH	46.65	100.00	46.65	29,856.00
Z-BRIC	Bricklayers	1.00	320.00	MH	57.50	100.00	57.50	18,400.00
Z-EQLT	Equipment Operators, Light Equipment	1.00	320.00	MH	62.00	100.00	62.00	19,840.00

Activity: 221113445580Pipe, steel, galvanized, threaded, 2" diameter, schedule 80Quantity: 160.00Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
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U. Cost	20.61	0.00	20.61	0.00	54.04	0.00	0.00	74.64
Total	3,297.00	0.00	3,297.00	0.00	8,645.60	0.00	0.00	11,942.60

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
20.6063	0.1430	6.9930	144.0997	2.8600	55.9441	0.0179	4,175.7343

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
45.7600	3.4965	0.2860	72.0498	20.6063

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS934 RS Means Crew Q1 Prod: US 55.9441 Eff: 100.00 Crew Hrs: 22.88 Labor Pcs: 2.00 Equipment Pcs: 0.00

Notes: Pipe, steel, galvanized, threaded, 2" diameter, schedule 80, Spec. A-53, includes coupling and clevis hanger assembly sized for L.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z22115550	Union tee, stainless steel, tube fittings, compres	1.00	160.00	EA	50.50	107.00	54.04	8,645.60
Z-PLUM	Plumbers	1.00	22.88	MH	72.05	100.00	72.05	1,648.50
Z-PLUM-APPR	Plumbers - Apprentice	1.00	22.88	MH	72.05	100.00	72.05	1,648.50

Activity: 221113449164 Pipe, steel, cutting pipe labor, one cut, 2" pipe size or less, schedule 80 Quantity: 16.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	13.78	0.00	13.78	0.00	89.88	0.00	0.00	103.66
Total	220.55	0.00	220.55	0.00	1,438.08	0.00	0.00	1,658.63

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
13.7844	0.1900	5.2632	72.5493	0.3800	42.1053	0.0238	4,364.8158

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
3.0400	5.2632	0.1900	72.5493	13.7844

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1178 RS Means Crew STPI Prod: US 42.1053 Eff: 100.00 Crew Hrs: 3.04 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Pipe, steel, cutting pipe labor, one cut, 2" pipe size or less, schedule 80, shop fabrication, machine cut

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z22115960	Pipe, stainless steel, butt weld, 6" diameter, sch	1.00	16.00	LF	84.00	107.00	89.88	1,438.08
Z-STPI	Steamfitters or Pipefitters	1.00	3.04	MH	72.55	100.00	72.55	220.55

Activity: 221113450140 Elbow, 90 Deg., steel, cast iron, black, straight, threaded, standard weight, 2" Quantity: 16.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	64.04	0.00	64.04	0.00	43.34	0.00	0.00	107.37
Total	1,024.56	0.00	1,024.56	0.00	693.36	0.00	0.00	1,717.92

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
64.0350	0.4445	2.2497	144.0607	0.8890	17.9978	0.0556	1,932.4184

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
14.2200	1.1252	0.8888	72.0506	64.0350

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS934 RS Means Crew Q1 Prod: US 17.9978 Eff: 100.00 Crew Hrs: 7.11 Labor Pcs: 2.00 Equipment Pcs: 0.00

Notes: Elbow, 90 Deg., steel, cast iron, black, straight, threaded, standard weight, 2"

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z22116240	Pipe, stainless steel, welded, 2 -1/2" pipe size, s	1.00	16.00	LF	40.50	107.00	43.34	693.36
Z-PLUM	Plumbers	1.00	7.11	MH	72.05	100.00	72.05	512.28
Z-PLUM-APPR	Plumbers - Apprentice	1.00	7.11	MH	72.05	100.00	72.05	512.28

Activity: 221113451390	Coupling, steel, cast iron, black, straight, threaded, extra heavy weight, 2"	Quantity: 16.00	Unit: EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	54.94	0.00	54.94	0.00	0.00	0.00	0.00	54.94
Total	879.02	0.00	879.02	0.00	0.00	0.00	0.00	879.02

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
54.9388	0.3810	2.6247	144.1962	0.7620	20.9974	0.0476	1,153.5696

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
12.2000	1.3115	0.7625	72.0508	54.9388

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS934 RS Means Crew Q1 Prod: US 20.9974 Eff: 100.00 Crew Hrs: 6.10 Labor Pcs: 2.00 Equipment Pcs: 0.00

Notes: Coupling, steel, cast iron, black, straight, threaded, extra heavy weight, 2"

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z22116740	Pipe, stainless steel, schedule 40, welding labor,	1.00	16.00	EA	0.00	107.00	0.00	0.00
Z-PLUM	Plumbers	1.00	6.10	MH	72.05	100.00	72.05	439.51
Z-PLUM-APPR	Plumbers - Apprentice	1.00	6.10	MH	72.05	100.00	72.05	439.51

Activity: 331413156230	Ductile iron cap, 30" diameter w/ 2" tap	Quantity: 16.00	Unit: EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	292.00	0.00	292.00	205.07	0.00	0.00	0.00	497.07
Total	4,672.00	0.00	4,672.00	3,281.12	0.00	0.00	0.00	7,953.12

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
497.0700	1.0000	1.0000	497.0700	2.0000	8.0000	0.1250	3,976.5600

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
80.0000	0.2000	5.0000	58.4000	292.0000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS284 RS Means Crew B21 Prod: US 8 Eff: 100.00 Crew Hrs: 16.00 Labor Pcs: 5.00 Equipment Pcs: 2.00

Notes: Water supply distribution piping, cap, ductile iron, mechanical joint, cement lined, 30" diameter, class 50 water piping

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8Z5433200200	Hyd. Excavator, 1.5 C.Y.	1.00	16.00	HR	148.16	100.00	148.16	2,370.48
8Z5433204620	F.E. Loader, W.M., 1.5 C.Y.	1.00	16.00	HR	56.92	100.00	56.92	910.64
Z-CLAB	Common Building Laborers	1.00	16.00	MH	49.00	100.00	49.00	784.00
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	16.00	MH	49.50	100.00	49.50	792.00
Z-EQMD	Equipment Operators, Medium Equipment	2.00	32.00	MH	65.00	100.00	65.00	2,080.00
Z-SKWK	Skilled Workers Average (35 trades)	1.00	16.00	MH	63.50	100.00	63.50	1,016.00

Activity: 331413158791	Joint restraint, fitting, 30" diameter	(Unreviewed)	Quantity: 16.00	Unit: EA
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1,752.00	0.00	1,752.00	1,230.42	0.00	0.00	0.00	2,982.42
Total	28,032.00	0.00	28,032.00	19,686.72	0.00	0.00	0.00	47,718.72

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2,982.4200	6.0000	0.1667	497.0700	12.0000	1.3333	0.7500	3,976.5600

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
480.0000	0.0333	30.0000	58.4000	1,752.0000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS284 RS Means Crew B21 Prod: 0 Eff: 100.00 Crew Hrs: 96.00 Labor Pcs: 5.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8Z5433200200	Hyd. Excavator, 1.5 C.Y.	1.00	96.00	HR	148.16	100.00	148.16	14,222.88
8Z5433204620	F.E. Loader, W.M., 1.5 C.Y.	1.00	96.00	HR	56.92	100.00	56.92	5,463.84
Z-CLAB	Common Building Laborers	1.00	96.00	MH	49.00	100.00	49.00	4,704.00
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	96.00	MH	49.50	100.00	49.50	4,752.00
Z-EQMD	Equipment Operators, Medium Equipment	2.00	192.00	MH	65.00	100.00	65.00	12,480.00
Z-SKWK	Skilled Workers Average (35 trades)	1.00	96.00	MH	63.50	100.00	63.50	6,096.00

Biditem

2002

Earthwork

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	3,572.64	0.00	3,572.64	3,058.72	0.00	0.00	0.00	6,631.36
Total	3,572.64	0.00	3,572.64	3,058.72	0.00	0.00	0.00	6,631.36

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
60.6000	0.0165	60.6000	109.4284	58.9545	58.9545	0.0326

Activity: 312316166030

Excavation for minor structures, 6'x10'x10', grouting ports

(Unreviewed)

Quantity: 200.00

Unit: BCY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	17.15	0.00	17.15	13.91	0.00	0.00	0.00	31.06
Total	3,429.44	0.00	3,429.44	2,782.25	0.00	0.00	0.00	6,211.69

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
31.0585	0.1455	6.8729	213.4601	3.6375	54.9828	0.0182	1,707.6811

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
58.2000	3.4364	0.2910	58.9251	17.1472

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS168

RS Means Crew B12E

Prod: US

54.9828

Eff: 100.00

Crew Hrs: 29.10

Labor Pcs: 2.00

Equipment Pcs: 1.00

Notes: Structural excavation for minor structures, bank measure, for spread and mat footings, elevator pits, and small building foundatB.C.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31232430	Excavating, trench or continuous footing, common e	1.00	200.00	BCY	0.00	107.00	0.00	0.00
8Z5433200100	Hyd. Excavator, .5 C.Y.	1.00	29.10	HR	95.61	100.00	95.61	2,782.25
Z-CLAB	Common Building Laborers	1.00	29.10	MH	49.00	100.00	49.00	1,425.90
Z-EQHV	Equipment Operators, Crane or Shovel	1.00	29.10	MH	68.85	100.00	68.85	2,003.54

Activity: 312323170020

Fill, dumped material, spread, by dozer, excludes compaction

Quantity: 200.00

Unit: LCY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.72	0.00	0.72	1.38	0.00	0.00	0.00	2.10
Total	143.20	0.00	143.20	276.47	0.00	0.00	0.00	419.67

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.0984	0.0080	125.0000	262.2938	0.2000	1,000.0000	0.0010	2,098.3500

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
2.4000	83.3333	0.0120	59.6667	0.7160

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS092

RS Means Crew B10B

Prod: US

1000

Eff: 100.00

Crew Hrs: 1.60

Labor Pcs: 1.50

Equipment Pcs: 1.00

Notes: Fill, dumped material, spread, by dozer, excludes compaction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31235110	Excavating, bulk, dozer, open site, bank measure,	1.00	200.00	BCY	0.00	107.00	0.00	0.00
8Z5433204260	Dozer, 200 H.P.	1.00	1.60	HR	172.80	100.00	172.79	276.47
Z-CLAB	Common Building Laborers	0.50	0.80	MH	49.00	100.00	49.00	39.20
Z-EQMD	Equipment Operators, Medium Equipment	1.00	1.60	MH	65.00	100.00	65.00	104.00

Biditem - Parent

21

Asphalt Trench Repair

Takeoff Qty: 730.000 SY

Bid Qty: 730.000 SY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4.93	0.00	4.93	3.80	23.13	0.00	0.00	31.86
Total	3,598.25	0.00	3,598.25	2,772.96	16,886.11	0.00	0.00	23,257.32

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
63.7400	11.4528	0.0873	364.8779	56.4520	56.4520	0.0000

Subtotal

Force Main Items

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Misc 1	Misc 2	Misc 3	Total
Total	384,637.30	0.00	384,637.30	213,177.51	692,844.89	0.00	30,000.00	0.00	0.00	0.00	1,320,659.70

Biditem

2101

Asphalt trench restoration

Takeoff Qty: 875.000 LF

Bid Qty: 875.000 LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	3.93	0.00	3.93	3.13	19.06	0.00	0.00	26.12
Total	3,438.25	0.00	3,438.25	2,740.34	16,677.46	0.00	0.00	22,856.05

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
60.7400	14.4057	0.0694	376.2932	56.6060	56.6060	33.8287

Activity: 024119250015

Selective demolition, saw cutting, asphalt, up to 3" deep

Quantity: 1750.00

Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.86	0.00	0.86	0.62	0.12	0.00	0.00	1.60
Total	1,508.64	0.00	1,508.64	1,089.98	205.98	0.00	0.00	2,804.60

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1.4849	0.0075	133.3333	197.9901	1.6406	1,066.6667	0.0009	1,709.4705

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
26.2600	66.6413	0.0150	57.4501	0.8621

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS620 RS Means Crew B89 Prod: US 1066.6667 Eff: 100.00 Crew Hrs: 13.13 Labor Pcs: 2.00 Equipment Pcs: 3.00

Notes: Selective demolition, saw cutting, asphalt, up to 3" deep

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z02414670	Selective demolition, saw cutting, asphalt, up to	1.00	1,750.00	LF	0.11	107.00	0.12	205.98
8Z5433102650	Concrete Saw	1.00	13.13	HR	22.00	100.00	22.00	288.86
8Z5433205500	Flatbed Truck, Gas, 3 Ton	1.00	13.13	HR	48.88	100.00	48.88	641.77

8Z5433407660	Water Tank, 65 Gal.	1.00	13.13	HR	12.14	100.00	12.14	159.35
Z-EQLT	Equipment Operators, Light Equipment	1.00	13.13	MH	62.00	100.00	62.00	814.06
Z-TRLT	Truck Drivers, Light	1.00	13.13	MH	52.90	100.00	52.90	694.58

Activity: 312316420360	Excavating, bulk bank measure, 3/4 C.Y. capacity = 60 C.Y./hour, backhoe, hydraulic, wheel mounted,	Quantity: 97.20	Unit: BCY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.94	0.00	1.94	1.88	0.00	0.00	0.00	3.82
Total	188.56	0.00	188.56	183.07	0.00	0.00	0.00	371.63

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3.8234	0.0165	60.6061	231.7184	0.2005	484.8485	0.0021	1,853.7474

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
3.2000	30.3750	0.0329	58.9250	1.9399

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS170 RS Means Crew B12F Prod: US 484.8485 Eff: 100.00 Crew Hrs: 1.60 Labor Pcs: 2.00 Equipment Pcs: 1.00

Notes: Excavating, bulk bank measure, 3/4 C.Y. capacity = 60 C.Y./hour, backhoe, hydraulic, wheel mounted, excluding truck loading

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31232980	Excavating, trench or continuous footing, sand and	1.00	97.20	BCY	0.00	107.00	0.00	0.00
8Z5433200140	Hyd. Excavator, .75 C.Y.	1.00	1.60	HR	114.42	100.00	114.42	183.07
Z-CLAB	Common Building Laborers	1.00	1.60	MH	49.00	100.00	49.00	78.40
Z-EQHV	Equipment Operators, Crane or Shovel	1.00	1.60	MH	68.85	100.00	68.85	110.16

Activity: 312323142020	Backfill, structural, common earth, 80 HP dozer, 50' haul, from existing stockpile, excludes compact	Quantity: 245.00	Unit: LCY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.72	0.00	0.72	0.59	0.00	0.00	0.00	1.31
Total	175.42	0.00	175.42	145.00	0.00	0.00	0.00	320.42

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1.3078	0.0080	125.0000	163.4796	0.2450	1,000.0000	0.0010	1,307.8367

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
2.9400	83.3333	0.0120	59.6667	0.7160

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS112 RS Means Crew B10L Prod: US 1000 Eff: 100.00 Crew Hrs: 1.96 Labor Pcs: 1.50 Equipment Pcs: 1.00

Notes: Backfill, structural, common earth, 80 HP dozer, 50' haul, from existing stockpile, excludes compaction

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31234660	Excavating, large volume projects, 200,000 plus B.	1.00	245.00	BCY	0.00	107.00	0.00	0.00
8Z5433204110	Dozer, 80 H.P.	1.00	1.96	HR	73.98	100.00	73.98	145.00
Z-CLAB	Common Building Laborers	0.50	0.98	MH	49.00	100.00	49.00	48.02
Z-EQMD	Equipment Operators, Medium Equipment	1.00	1.96	MH	65.00	100.00	65.00	127.40

Activity: 312323204236	Cycle hauling(wait, load, travel, unload or dump & return) time per cycle, excavated or borrow, loos	Quantity: 97.20	Unit: LCY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.00	0.00	2.00	3.22	53.50	0.00	0.00	58.71
Total	194.08	0.00	194.08	312.66	5,200.20	0.00	0.00	5,706.94

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
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5.2134	0.0360	27.7778	144.8160	0.4374	222.2222	0.0045	13,047.4166
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Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
3.5000	27.7714	0.0360	55.4514	1.9967

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS362 RS Means Crew B34D Prod: US 222.2222 Eff: 100.00 Crew Hrs: 3.50 Labor Pcs: 1.00 Equipment Pcs: 2.00

Notes: Cycle hauling(wait, load, travel, unload or dump & return) time per cycle, excavated or borrow, loose cubic yards, 20 min load/wL.C.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31237940	Cycle hauling(wait, load, travel, unload or dump &	1.00	97.20	LCY	50.00	107.00	53.50	5,200.20
8Z5433205400	Dump Trailer, 20 C.Y.	1.00	3.50	HR	21.08	100.00	21.08	73.79
8Z5433407500	Truck Tractor, 6x4, 380 H.P.	1.00	3.50	HR	68.25	100.00	68.25	238.87
Z-TRHV	Truck Drivers, Heavy	1.00	3.50	MH	55.45	100.00	55.45	194.08

Activity: 312323235000 Compaction, riding, vibrating roller, 2 passes, 6" lifts Quantity: 245.00 Unit: BCY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.24	0.00	0.24	0.12	0.00	0.00	0.00	0.35
Total	58.42	0.00	58.42	28.19	0.00	0.00	0.00	86.61

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.3535	0.0027	375.0191	132.5731	0.0817	3,000.1531	0.0003	1,060.5847

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.9800	250.0000	0.0040	59.6122	0.2384

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS138 RS Means Crew B10Y Prod: US 3000 Eff: 100.00 Crew Hrs: 0.65 Labor Pcs: 1.50 Equipment Pcs: 1.00

Notes: Compaction, riding, vibrating roller, 2 passes, 6" lifts

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z312310725	Cycle hauling(wait, load, travel, unload or dump &	1.00	245.00	LCY	0.00	107.00	0.00	0.00
8Z5433203350	Vibr. Roller, Towed, 12 Ton	1.00	0.65	HR	43.37	100.00	43.37	28.19
Z-CLAB	Common Building Laborers	0.50	0.33	MH	49.00	100.00	49.00	16.17
Z-EQMD	Equipment Operators, Medium Equipment	1.00	0.65	MH	65.00	100.00	65.00	42.25

Activity: 312323239040 Compaction, water for, 6,000 gallon wagon, 6 mile haul Quantity: 245.00 Unit: BCY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.28	0.00	0.28	0.32	0.00	0.00	0.00	0.60
Total	68.20	0.00	68.20	78.28	0.00	0.00	0.00	146.48

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.5979	0.0050	200.0000	119.5755	0.1531	1,600.0000	0.0006	956.6041

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1.2300	199.1870	0.0050	55.4472	0.2784

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS490 RS Means Crew B59 Prod: US 1600 Eff: 100.00 Crew Hrs: 1.23 Labor Pcs: 1.00 Equipment Pcs: 2.00

Notes: Compaction, water for, 6,000 gallon wagon, 6 mile haul

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z312310990	Cycle hauling(wait, load, travel, unload or dump &	1.00	245.00	LCY	0.00	107.00	0.00	0.00
8Z5433406900	Water Tank Trailer, 5000 Gal.	1.00	1.23	HR	21.14	100.00	21.15	26.01
8Z5433407300	Truck Tractor, 220 H.P.	1.00	1.23	HR	42.50	100.00	42.50	52.27

Z-TRHV	Truck Drivers, Heavy	1.00	1.23	MH	55.45	100.00	55.45	68.20
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Activity: 320113623200	Asphalt surface treatment, tack coat, emulsion, 0.05 gallons/S.Y., 1,000 S.Y.	Quantity: 730.00	Unit: SY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.36	0.00	0.36	0.34	0.94	0.00	0.00	1.65
Total	263.79	0.00	263.79	249.95	687.37	0.00	0.00	1,201.11

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.7038	0.0030	333.3333	234.5845	0.2738	2,666.6667	0.0004	4,387.6164

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
4.3800	166.6667	0.0060	60.2260	0.3614

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS444 RS Means Crew B45 Prod: US 2666.6667 Eff: 100.00 Crew Hrs: 2.19 Labor Pcs: 2.00 Equipment Pcs: 2.00

Notes: Asphalt surface treatment, tack coat, emulsion, 0.05 gallons/S.Y., 1,000 S.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32011035	Asphalt surface treatment, tack coat, emulsion, 0.	2.00	1,460.00	SY	0.44	107.00	0.47	687.37
8Z5433401840	Dist. Tanker, 3000 Gallon	1.00	2.19	HR	45.89	100.00	45.89	100.49
8Z5433407500	Truck Tractor, 6x4, 380 H.P.	1.00	2.19	HR	68.25	100.00	68.25	149.46
Z-EQMD	Equipment Operators, Medium Equipment	1.00	2.19	MH	65.00	100.00	65.00	142.35
Z-TRHV	Truck Drivers, Heavy	1.00	2.19	MH	55.45	100.00	55.45	121.44

Activity: 321216130130	Plant-mix asphalt paving, for highways and large paved areas, binder course, 2-1/2" thick, no hauling	Quantity: 730.00	Unit: SY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.85	0.00	0.85	0.57	10.38	0.00	0.00	11.80
Total	623.89	0.00	623.89	412.90	7,576.67	0.00	0.00	8,613.46

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1.4203	0.0015	687.5118	976.4457	0.1327	5,500.0942	0.0002	64,897.0428

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
11.6800	62.5000	0.0160	53.4152	0.8546

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS308 RS Means Crew B25 Prod: US 5500 Eff: 100.00 Crew Hrs: 1.06 Labor Pcs: 11.00 Equipment Pcs: 3.00

Notes: Plant-mix asphalt paving, for highways and large paved areas, binder course, 2-1/2" thick, no hauling included

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32121010	Plant-mix asphalt paving, for highways and large p	1.00	730.00	SY	9.70	107.00	10.38	7,576.67
8Z5433203050	Tandem Roller, 10 Ton	1.00	1.06	HR	47.40	100.00	47.41	50.25
8Z5433203200	Roller, Pneum. Whl., 12 Ton	1.00	1.06	HR	48.07	100.00	48.07	50.95
8Z5433504250	Asphalt Paver, 130 H.P.	1.00	1.06	HR	294.06	100.00	294.06	311.70
Z-CLAB	Common Building Laborers	7.00	7.43	MH	49.00	100.00	49.00	364.07
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	1.06	MH	49.50	100.00	49.50	52.47
Z-EQMD	Equipment Operators, Medium Equipment	3.00	3.19	MH	65.00	100.00	65.00	207.35

Activity: 321216130300	Plant-mix asphalt paving, for highways and large paved areas, wearing course, 1" thick, no hauling i	Quantity: 730.00	Unit: SY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.49	0.00	0.49	0.33	4.12	0.00	0.00	4.94
Total	357.25	0.00	357.25	240.31	3,007.24	0.00	0.00	3,604.80

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.8186	0.0008	1,333.3333	1,091.4338	0.0684	10,666.6667	0.0001	52,672.8767
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
6.5700	111.1111	0.0090	54.3760	0.4894			

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS310 RS Means Crew B25B Prod: US 10666.6667 Eff: 100.00 Crew Hrs: 0.55 Labor Pcs: 12.00 Equipment Pcs: 4.00

Notes: Plant-mix asphalt paving, for highways and large paved areas, wearing course, 1" thick, no hauling included

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32121030	Plant-mix asphalt paving, for highways and large p	1.00	730.00	SY	3.85	107.00	4.12	3,007.24
8Z5433203050	Tandem Roller, 10 Ton	2.00	1.10	HR	47.40	100.00	47.40	52.14
8Z5433203200	Roller, Pneum. Whl., 12 Ton	1.00	0.55	HR	48.07	100.00	48.07	26.44
8Z5433504250	Asphalt Paver, 130 H.P.	1.00	0.55	HR	294.06	100.00	294.05	161.73
Z-CLAB	Common Building Laborers	7.00	3.83	MH	49.00	100.00	49.00	187.67
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	0.55	MH	49.50	100.00	49.51	27.23
Z-EQMD	Equipment Operators, Medium Equipment	4.00	2.19	MH	65.00	100.00	65.00	142.35

Biditem

Erosion Control

2102

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	160.00	0.00	160.00	32.62	208.65	0.00	0.00	401.27
Total	160.00	0.00	160.00	32.62	208.65	0.00	0.00	401.27

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
3.0000	0.3333	3.0000	133.7567	53.3333	53.3333	1.0000

Activity: 312514161625 Erosion control, Storm Drain Filter - Sediment & Oils - 36" x 48" w/ No Frame Quantity: 3.00 Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	53.33	0.00	53.33	10.87	69.55	0.00	0.00	133.76
Total	160.00	0.00	160.00	32.62	208.65	0.00	0.00	401.27

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
64.2067	0.3333	3.0000	192.6200	0.1250	24.0000	0.0417	3,210.1600
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
3.0000	1.0000	1.0000	53.3333	53.3333			

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS506 RS Means Crew B62 Prod: US 24 Eff: 100.00 Crew Hrs: 1.00 Labor Pcs: 3.00 Equipment Pcs: 1.00

Notes: Erosion control, silt Sac for Catch Basin, Single, 2ft x 2ft

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31251095	Erosion control, silt Sac for Catch Basin, Single,	1.00	3.00	EA	65.00	107.00	69.55	208.65
8Z5433204880	Loader, Skid Steer, 30 H.P.	1.00	1.00	HR	32.62	100.00	32.62	32.62
Z-CLAB	Common Building Laborers	2.00	2.00	MH	49.00	100.00	49.00	98.00
Z-EQLT	Equipment Operators, Light Equipment	1.00	1.00	MH	62.00	100.00	62.00	62.00

Biditem - Parent

Asphalt Milling and Resurfacing

22

Takeoff Qty: 4,835.000 SY

Bid Qty: 4,835.000 SY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	3.26	0.00	3.26	2.33	7.29	0.00	6.20	19.07
Total	15,744.22	0.00	15,744.22	11,250.79	35,229.65	0.00	30,000.00	92,224.66

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
296.4000	16.3124	0.0613	311.1493	53.1182	53.1182	0.0000

Subtotal

Force Main Items

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Misc 1	Misc 2	Misc 3	Total
Total	384,637.30	0.00	384,637.30	213,177.51	692,844.89	0.00	30,000.00	0.00	0.00	0.00	1,320,659.70

Biditem

Asphalt Milling

2201

Takeoff Qty: 4,835.000 SY

Bid Qty: 4,835.000 SY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.02	0.00	1.02	1.39	0.02	0.00	0.00	2.43
Total	4,917.05	0.00	4,917.05	6,706.55	117.70	0.00	0.00	11,741.30

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
87.5500	55.2256	0.0181	134.1097	56.1628	56.1628	219.4734

Activity: 024119250015

Selective demolition, saw cutting, asphalt, up to 3" deep

(Unreviewed)

Quantity: 1000.00

Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.86	0.00	0.86	0.62	0.12	0.00	0.00	1.60
Total	861.75	0.00	861.75	622.61	117.70	0.00	0.00	1,602.06

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1.4844	0.0075	133.3333	197.9147	0.9375	1,066.6667	0.0009	1,708.8640

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
15.0000	66.6667	0.0150	57.4500	0.8618

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS620

RS Means Crew B89

Prod: US

1066.6667

Eff: 100.00

Crew Hrs: 7.50

Labor Pcs: 2.00

Equipment Pcs: 3.00

Notes: Selective demolition, saw cutting, asphalt, up to 3" deep

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z02414670	Selective demolition, saw cutting, asphalt, up to	1.00	1,000.00	LF	0.11	107.00	0.12	117.70
8Z5433102650	Concrete Saw	1.00	7.50	HR	22.00	100.00	22.00	165.00
8Z5433205500	Flatbed Truck, Gas, 3 Ton	1.00	7.50	HR	48.88	100.00	48.88	366.59
8Z5433407660	Water Tank, 65 Gal.	1.00	7.50	HR	12.14	100.00	12.14	91.02
Z-EQLT	Equipment Operators, Light Equipment	1.00	7.50	MH	62.00	100.00	62.00	465.00
Z-TRLT	Truck Drivers, Light	1.00	7.50	MH	52.90	100.00	52.90	396.75

Activity: 312323204236

Cycle hauling(wait, load, travel, unload or dump & return) time per cycle, excavated or borrow, loos

(Unreviewed)

Quantity: 135.00

Unit: LCY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.00	0.00	2.00	3.22	0.00	0.00	0.00	5.21
Total	269.49	0.00	269.49	434.15	0.00	0.00	0.00	703.64

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
5.2121	0.0360	27.7778	144.7819	0.6075	222.2222	0.0045	1,158.2551
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
4.8600	27.7778	0.0360	55.4506	1.9962			

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS362 RS Means Crew B34D Prod: US 222.2222 Eff: 100.00 Crew Hrs: 4.86 Labor Pcs: 1.00 Equipment Pcs: 2.00

Notes: Cycle hauling(wait, load, travel, unload or dump & return) time per cycle, excavated or borrow, loose cubic yards, 20 min load/wL.C.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z31237940	Cycle hauling(wait, load, travel, unload or dump &	1.00	135.00	LCY	0.00	107.00	0.00	0.00
8Z5433205400	Dump Trailer, 20 C.Y.	1.00	4.86	HR	21.08	100.00	21.08	102.46
8Z5433407500	Truck Tractor, 6x4, 380 H.P.	1.00	4.86	HR	68.25	100.00	68.25	331.69
Z-TRHV	Truck Drivers, Heavy	1.00	4.86	MH	55.45	100.00	55.45	269.49

Activity: 320116715280 Cold milling asphalt paving, 1" to 3" asphalt pavement (Unreviewed) Quantity: 4835.00 Unit: SY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.78	0.00	0.78	1.17	0.00	0.00	0.00	1.95
Total	3,785.81	0.00	3,785.81	5,649.79	0.00	0.00	0.00	9,435.60

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1.9515	0.0020	500.0000	975.7601	1.2088	4,000.0000	0.0003	7,806.0807
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
67.6900	71.4286	0.0140	55.9286	0.7830			

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS556 RS Means Crew B71 Prod: US 4000 Eff: 100.00 Crew Hrs: 9.67 Labor Pcs: 7.00 Equipment Pcs: 3.00

Notes: Cold milling asphalt paving, 1" to 3" asphalt pavement, 5,000 to 10,000 S.Y., cold planing & cleaning

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32011235	Cold milling asphalt paving, 1" to 3" asphalt pave	1.00	4,835.00	SY	0.00	107.00	0.00	0.00
8Z5433204620	F.E. Loader, W.M., 1.5 C.Y.	1.00	9.67	HR	56.92	100.00	56.92	550.37
8Z5433503400	Road Sweeper, S.P., 8' wide	1.00	9.67	HR	67.25	100.00	67.25	650.32
8Z5433505300	Pvmt. Profiler, 750 H.P.	1.00	9.67	HR	460.09	100.00	460.09	4,449.10
Z-CLAB	Common Building Laborers	3.00	29.01	MH	49.00	100.00	49.00	1,421.49
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	9.67	MH	49.50	100.00	49.50	478.67
Z-EQMD	Equipment Operators, Medium Equipment	3.00	29.01	MH	65.00	100.00	65.00	1,885.65

Biditem

2202

Temporary Markings

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	5,072.70	0.00	5,072.70	126.27	626.83	0.00	0.00	5,825.80
Total	5,072.70	0.00	5,072.70	126.27	626.83	0.00	0.00	5,825.80

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
103.3700	0.0097	103.3700	56.3587	49.0732	49.0732	0.0106

Activity: 321723130640 Painted pavement markings, temporary paint, white or yellow Quantity: 3446.00 Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
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U. Cost	0.15	0.00	0.15	0.04	0.18	0.00	0.00	0.37
Total	513.74	0.00	513.74	126.27	626.83	0.00	0.00	1,266.84

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.1857	0.0005	2,000.0000	371.4510	0.2154	16,000.0000	0.0001	5,882.0197

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
10.3300	333.5915	0.0030	49.7328	0.1491

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS572

RS Means Crew B78

Prod: US 16000

Eff: 100.00

Crew Hrs: 1.72

Labor Pcs: 6.00

Equipment Pcs: 3.00

Notes: Painted pavement markings, temporary paint, white or yellow, less than 3,000 LF

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32171175	Painted pavement markings, temporary paint, white	1.00	3,446.00	LF	0.17	107.00	0.18	626.83
8Z5433205500	Flatbed Truck, Gas, 3 Ton	1.00	1.72	HR	48.88	100.00	48.88	84.07
8Z5433407100	Pickup Truck, 3/4 Ton	1.00	1.72	HR	15.32	100.00	15.32	26.35
8Z5433503000	Paint Striper, S.P., 40 Gallon	1.00	1.72	HR	9.22	100.00	9.22	15.85
Z-CLAB	Common Building Laborers	4.00	6.89	MH	49.00	100.00	49.00	337.61
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	1.72	MH	49.50	100.00	49.50	85.14
Z-TRLT	Truck Drivers, Light	1.00	1.72	MH	52.90	100.00	52.90	90.99

Activity: 321723130660	Painted pavement markings, acrylic waterborne, white or yellow, temporary paint, removal	Quantity: 3446.00	Unit: LF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.32	0.00	1.32	0.00	0.00	0.00	0.00	1.32
Total	4,558.96	0.00	4,558.96	0.00	0.00	0.00	0.00	4,558.96

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1.3230	0.0270	37.0370	48.9989	11.6303	296.2963	0.0034	391.9916

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
93.0400	37.0378	0.0270	49.0000	1.3230

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS1140

RS Means Crew CLAB

Prod: US 296.2963

Eff: 100.00

Crew Hrs: 93.04

Labor Pcs: 1.00

Equipment Pcs: 0.00

Notes: Painted pavement markings, acrylic waterborne, white or yellow, temporary paint, removal

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32171190	Painted pavement markings, acrylic waterborne, whi	1.00	3,446.00	LF	0.00	107.00	0.00	0.00
Z-CLAB	Common Building Laborers	1.00	93.04	MH	49.00	100.00	49.00	4,558.96

Biditem

2203

Asphalt Resurfacing

Takeoff Qty: 4,835.000 SY

Bid Qty: 4,835.000 SY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.85	0.00	0.85	0.67	5.06	0.00	0.00	6.58
Total	4,113.54	0.00	4,113.54	3,241.70	24,470.42	0.00	0.00	31,825.66

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
72.5300	66.6621	0.0150	438.7931	56.7150	56.7150	266.6674

Activity: 320113623200	Asphalt surface treatment, tack coat, emulsion, 0.05 gallons/S.Y., 1,000 S.Y.	(Unreviewed)	Quantity: 4835.00	Unit: SY
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
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U. Cost	0.36	0.00	0.36	0.34	0.94	0.00	0.00	1.65
Total	1,747.73	0.00	1,747.73	1,656.11	4,552.64	0.00	0.00	7,956.48

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.7040	0.0030	333.3333	234.6667	1.8131	2,666.6667	0.0004	4,388.2689

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
29.0200	166.6092	0.0060	60.2250	0.3615

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS444

RS Means Crew B45

Prod: US

2666.6667

Eff: 100.00

Crew Hrs: 14.51

Labor Pcs: 2.00

Equipment Pcs: 2.00

Notes: Asphalt surface treatment, tack coat, emulsion, 0.05 gallons/S.Y., 1,000 S.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32011035	Asphalt surface treatment, tack coat, emulsion, 0.	2.00	9,670.00	SY	0.44	107.00	0.47	4,552.64
8Z5433401840	Dist. Tanker, 3000 Gallon	1.00	14.51	HR	45.89	100.00	45.89	665.83
8Z5433407500	Truck Tractor, 6x4, 380 H.P.	1.00	14.51	HR	68.25	100.00	68.25	990.28
Z-EQMD	Equipment Operators, Medium Equipment	1.00	14.51	MH	65.00	100.00	65.00	943.15
Z-TRHV	Truck Drivers, Heavy	1.00	14.51	MH	55.45	100.00	55.45	804.58

Activity: 321216130300

Plant-mix asphalt paving, wearing course, 1" thick

(Unreviewed)

Quantity: 4835.00

Unit: SY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.49	0.00	0.49	0.33	4.12	0.00	0.00	4.94
Total	2,365.81	0.00	2,365.81	1,585.59	19,917.78	0.00	0.00	23,869.18

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.8172	0.0007	1,333.3517	1,089.6807	0.4533	10,666.8137	0.0001	52,659.3790

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
43.5100	111.1239	0.0090	54.3739	0.4893

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS310

RS Means Crew B25B

Prod: US

10666.6667

Eff: 100.00

Crew Hrs: 3.63

Labor Pcs: 12.00

Equipment Pcs: 4.00

Notes: Plant-mix asphalt paving, for highways and large paved areas, wearing course, 1" thick, no hauling included

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32121030	Plant-mix asphalt paving, for highways and large p	1.00	4,835.00	SY	3.85	107.00	4.12	19,917.78
8Z5433203050	Tandem Roller, 10 Ton	2.00	7.25	HR	47.40	100.00	47.40	343.67
8Z5433203200	Roller, Pneum. Whl., 12 Ton	1.00	3.63	HR	48.07	100.00	48.07	174.49
8Z5433504250	Asphalt Paver, 130 H.P.	1.00	3.63	HR	294.06	100.00	294.06	1,067.43
Z-CLAB	Common Building Laborers	7.00	25.38	MH	49.00	100.00	49.00	1,243.62
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	3.63	MH	49.50	100.00	49.50	179.69
Z-EQMD	Equipment Operators, Medium Equipment	4.00	14.50	MH	65.00	100.00	65.00	942.50

Biditem

2204

Pavement Markings

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1,640.93	0.00	1,640.93	1,176.27	10,014.70	0.00	0.00	12,831.90
Total	1,640.93	0.00	1,640.93	1,176.27	10,014.70	0.00	0.00	12,831.90

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
32.9500	0.0303	32.9500	389.4355	49.8006	49.8006	0.1113

Activity: 321723130200	Painted pavement markings, acrylic waterborne, white or yellow, 6" wide	(Unreviewed)	Quantity: 32.00	Unit: LF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.20	0.00	0.20	0.05	0.24	0.00	0.00	0.48
Total	6.46	0.00	6.46	1.47	7.53	0.00	0.00	15.46

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.2478	0.0007	1,502.3474	372.3005	0.0027	12,018.7793	0.0001	5,806.5728

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.1300	246.1538	0.0041	49.6923	0.2019

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS572 RS Means Crew B78 Prod: US 12000 Eff: 100.00 Crew Hrs: 0.02 Labor Pcs: 6.00 Equipment Pcs: 3.00

Notes: Painted pavement markings, acrylic waterborne, white or yellow, 6" wide, less than 3,000 LF

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32171125	Painted pavement markings, acrylic waterborne, whi	1.00	32.00	LF	0.22	107.00	0.24	7.53
8Z5433205500	Flatbed Truck, Gas, 3 Ton	1.00	0.02	HR	48.88	100.00	49.00	0.98
8Z5433407100	Pickup Truck, 3/4 Ton	1.00	0.02	HR	15.32	100.00	15.50	0.31
8Z5433503000	Paint Striper, S.P., 40 Gallon	1.00	0.02	HR	9.22	100.00	9.00	0.18
Z-CLAB	Common Building Laborers	4.00	0.09	MH	49.00	100.00	49.00	4.41
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	0.02	MH	49.50	100.00	49.50	0.99
Z-TRLT	Truck Drivers, Light	1.00	0.02	MH	52.90	100.00	53.00	1.06

Activity: 321723130730	Painted pavement markings, thermoplastic, white or yellow, 6" wide	(Unreviewed)	Quantity: 3446.00	Unit: LF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.15	0.00	0.15	0.11	1.54	0.00	0.00	1.80
Total	515.77	0.00	515.77	382.86	5,309.60	0.00	0.00	6,208.23

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.2608	0.0006	1,666.6667	434.6247	0.2585	13,333.3333	0.0001	24,021.0099

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
10.3400	333.2689	0.0030	49.8810	0.1497

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS578 RS Means Crew B79 Prod: US 13333.3333 Eff: 100.00 Crew Hrs: 2.07 Labor Pcs: 5.00 Equipment Pcs: 5.00

Notes: Painted pavement markings, thermoplastic, white or yellow, 6" wide, less than 6,000 LF

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32171210	Painted pavement markings, thermoplastic, white or	1.00	3,446.00	LF	1.44	107.00	1.54	5,309.60
8Z5433205500	Flatbed Truck, Gas, 3 Ton	1.00	2.07	HR	48.88	100.00	48.88	101.18
8Z5433407100	Pickup Truck, 3/4 Ton	2.00	4.14	HR	15.32	100.00	15.32	63.42
8Z5433505800	Paint Striper, T.M., 120 Gal.	1.00	2.07	HR	84.24	100.00	84.24	174.37
8Z5433505900	Heating Kettle, 115 Gallon	1.00	2.07	HR	21.21	100.00	21.20	43.89
Z-CLAB	Common Building Laborers	3.00	6.20	MH	49.00	100.00	49.00	303.80
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	2.07	MH	49.50	100.00	49.50	102.47
Z-TRLT	Truck Drivers, Light	1.00	2.07	MH	52.90	100.00	52.90	109.50

Activity: 321723130760	Painted pavement markings, thermoplastic, white or yellow, bike lane (sharrow)	(Unreviewed)	Quantity: 36.00	Unit: SF
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	3.05	0.00	3.05	2.26	3.09	0.00	0.00	8.40
Total	109.74	0.00	109.74	81.38	111.32	0.00	0.00	302.44

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
5.3089	0.0122	81.9672	435.1548	0.0549	655.7377	0.0015	5,508.9253
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
2.2000	16.3636	0.0611	49.8818	3.0483			

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS578 RS Means Crew B79 Prod: US 655.7377 Eff: 100.00 Crew Hrs: 0.44 Labor Pcs: 5.00 Equipment Pcs: 5.00

Notes: Painted pavement markings, thermoplastic, white or yellow, arrows

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32171240	Painted pavement markings, thermoplastic, white or	1.00	36.00	SF	2.89	107.00	3.09	111.32
8Z5433205500	Flatbed Truck, Gas, 3 Ton	1.00	0.44	HR	48.88	100.00	48.89	21.51
8Z5433407100	Pickup Truck, 3/4 Ton	2.00	0.88	HR	15.32	100.00	15.32	13.48
8Z5433505800	Paint Striper, T.M., 120 Gal.	1.00	0.44	HR	84.24	100.00	84.23	37.06
8Z5433505900	Heating Kettle, 115 Gallon	1.00	0.44	HR	21.21	100.00	21.20	9.33
Z-CLAB	Common Building Laborers	3.00	1.32	MH	49.00	100.00	49.00	64.68
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	0.44	MH	49.50	100.00	49.50	21.78
Z-TRLT	Truck Drivers, Light	1.00	0.44	MH	52.90	100.00	52.91	23.28

Activity: 321723130761 Painted pavement markings, thermoplastic, white or yellow, arrows (Unreviewed) Quantity: 66.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	3.05	0.00	3.05	2.27	3.09	0.00	0.00	8.41
Total	201.53	0.00	201.53	149.67	204.09	0.00	0.00	555.29

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
5.3212	0.0122	81.9672	436.1649	0.1007	655.7377	0.0015	5,517.0392
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
4.0400	16.3366	0.0612	49.8837	3.0535			

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS578 RS Means Crew B79 Prod: US 655.7377 Eff: 100.00 Crew Hrs: 0.81 Labor Pcs: 5.00 Equipment Pcs: 5.00

Notes: Painted pavement markings, thermoplastic, white or yellow, arrows

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32171240	Painted pavement markings, thermoplastic, white or	1.00	66.00	SF	2.89	107.00	3.09	204.09
8Z5433205500	Flatbed Truck, Gas, 3 Ton	1.00	0.81	HR	48.88	100.00	48.88	39.59
8Z5433407100	Pickup Truck, 3/4 Ton	2.00	1.61	HR	15.32	100.00	15.32	24.67
8Z5433505800	Paint Striper, T.M., 120 Gal.	1.00	0.81	HR	84.24	100.00	84.23	68.23
8Z5433505900	Heating Kettle, 115 Gallon	1.00	0.81	HR	21.21	100.00	21.21	17.18
Z-CLAB	Common Building Laborers	3.00	2.42	MH	49.00	100.00	49.00	118.58
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	0.81	MH	49.50	100.00	49.51	40.10
Z-TRLT	Truck Drivers, Light	1.00	0.81	MH	52.90	100.00	52.90	42.85

Activity: 321723130770 Painted pavement markings, thermoplastic, white or yellow, gore lines (Unreviewed) Quantity: 827.50 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.80	0.00	0.80	0.59	3.09	0.00	0.00	4.48
Total	660.43	0.00	660.43	490.14	2,558.88	0.00	0.00	3,709.45

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1.3904	0.0032	312.5000	434.5053	0.3310	2,500.0000	0.0004	11,206.7976
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
13.2400	62.5000	0.0160	49.8814	0.7981			

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS578RS Means Crew B79Prod: US 2500Eff: 100.00Crew Hrs: 2.65Labor Pcs: 5.00Equipment Pcs: 5.00

Notes: Painted pavement markings, thermoplastic, white or yellow, gore lines

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32171245	Painted pavement markings, thermoplastic, white or	1.00	827.50	SF	2.89	107.00	3.09	2,558.88
8Z5433205500	Flatbed Truck, Gas, 3 Ton	1.00	2.65	HR	48.88	100.00	48.88	129.53
8Z5433407100	Pickup Truck, 3/4 Ton	2.00	5.30	HR	15.32	100.00	15.32	81.20
8Z5433505800	Paint Striper, T.M., 120 Gal.	1.00	2.65	HR	84.24	100.00	84.23	223.22
8Z5433505900	Heating Kettle, 115 Gallon	1.00	2.65	HR	21.21	100.00	21.20	56.19
Z-CLAB	Common Building Laborers	3.00	7.94	MH	49.00	100.00	49.00	389.06
Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	2.65	MH	49.50	100.00	49.50	131.18
Z-TRLT	Truck Drivers, Light	1.00	2.65	MH	52.90	100.00	52.90	140.19

Activity: 321723141360Pavement markings, permanent thermoplastic tape, letters, 96 inch high, including layout(Unreviewed)Quantity: 12.00Unit: EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	12.25	0.00	12.25	5.90	151.94	0.00	0.00	170.09
Total	147.00	0.00	147.00	70.75	1,823.28	0.00	0.00	2,041.03

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
18.1458	0.2500	4.0000	72.5833	0.3750	32.0000	0.0313	5,442.7467

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
3.0000	4.0000	0.2500	49.0000	12.2500

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS582RS Means Crew B79BProd: US 32Eff: 100.00Crew Hrs: 3.00Labor Pcs: 1.00Equipment Pcs: 1.00

Notes: Pavement markings, permanent thermoplastic tape, letters, 96 inch high, including layout

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32171420	Pavement markings, permanent thermoplastic tape, l	1.00	12.00	EA	142.00	107.00	151.94	1,823.28
8Z5433406360	Set of Gases	1.00	3.00	HR	23.58	100.00	23.58	70.75
Z-CLAB	Common Building Laborers	1.00	3.00	MH	49.00	100.00	49.00	147.00

BiditemAdjusting Manhole frames & cover and valve boxes

2205

Takeoff Qty: 1.000 LSTotal Bid Qty: 1.000 LS

Activity: 33056100Allowance - Adjusting Manhole frames & covers and valve boxesQuantity: 1.00Unit: LS

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Notes: Concrete Manholes

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4ALLOW	Allowance	1.00	1.00	LS	30,000.00	100.00	30,000.00	30,000.00

Biditem - ParentForce Main Restoration

23

Takeoff Qty: 1.000 LSTotal Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
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U. Cost	10,105.06	0.00	10,105.06	940.57	12,632.48	0.00	0.00	23,678.11
Total	10,105.06	0.00	10,105.06	940.57	12,632.48	0.00	0.00	23,678.11

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
184.2100	0.0054	184.2100	128.5387	54.8562	54.8562	0.0000

Subtotal

Force Main Items

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Misc 1	Misc 2	Misc 3	Total
Total	384,637.30	0.00	384,637.30	213,177.51	692,844.89	0.00	30,000.00	0.00	0.00	0.00	1,320,659.70

Biditem

2301

Curbs and Gutters

Takeoff Qty: 818.500 LF

Bid Qty: 818.500 LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	5.54	0.00	5.54	0.00	11.33	0.00	0.00	16.88
Total	4,536.77	0.00	4,536.77	0.00	9,277.12	0.00	0.00	13,813.89

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
80.4400	10.1753	0.0983	171.7291	56.3994	56.3994	61.0575

Activity: 321613130404

Cast-in place concrete curbs & gutters, concrete, wood forms, straight, 6" x 18", includes concrete

(Unreviewed)

Quantity: 705.50

Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	5.41	0.00	5.41	0.00	10.06	0.00	0.00	15.47
Total	3,819.95	0.00	3,819.95	0.00	7,095.92	0.00	0.00	10,915.87

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
5.4145	0.0160	62.5000	338.4080	1.4110	500.0000	0.0020	7,736.2651

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
67.7300	10.4164	0.0960	56.3997	5.4145

Calendar: 508Five - 8 hr shiftsHrs/Shift: 8WC:Code not found.

Crew: RS736 RS Means Crew C2AProd: US 500Eff: 100.00Crew Hrs: 11.29Labor Pcs: 6.00Equipment Pcs: 0.00

Notes: Cast-in place concrete curbs & gutters, concrete, wood forms, straight, 6" x 18", includes concrete

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32161010	Cast-in place concrete curbs & gutters, concrete,	1.00	705.50	LF	9.40	107.00	10.06	7,095.92
Z-CARP	Carpenters	3.00	33.86	MH	58.60	100.00	58.60	1,984.20
Z-CARP-FORO	Carpenters - Foreman	1.00	11.29	MH	58.60	100.00	58.60	661.59
Z-CEFI	Cement Finishers	1.00	11.29	MH	55.00	100.00	55.00	620.95
Z-CLAB	Common Building Laborers	1.00	11.29	MH	49.00	100.00	49.00	553.21

Activity: 321613130430

Valley gutters, straight, wood forms, 6" thick gutter, 24" wide

(Unreviewed)

Quantity: 58.00

Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	7.22	0.00	7.22	0.00	26.75	0.00	0.00	33.97
Total	419.03	0.00	419.03	0.00	1,551.50	0.00	0.00	1,970.53

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
7.2247	0.0213	46.8725	338.6375	0.1547	374.9798	0.0027	12,739.8093

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
7.4300	7.8062	0.1281	56.3970	7.2247

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS736 RS Means Crew C2A Prod: US 374.9798 Eff: 100.00 Crew Hrs: 1.24 Labor Pcs: 6.00 Equipment Pcs: 0.00

Notes: Cast-in place concrete curbs & gutters, straight, wood forms, 0.055 C.Y. per LF, 6" high curb, 6" thick gutter, 24" wide, includL.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32161040	Cast-in place concrete curbs & gutters, straight,	1.00	58.00	LF	25.00	107.00	26.75	1,551.50
Z-CARP	Carpenters	3.00	3.71	MH	58.60	100.00	58.60	217.41
Z-CARP-FORO	Carpenters - Foreman	1.00	1.24	MH	58.60	100.00	58.60	72.66
Z-CEFI	Cement Finishers	1.00	1.24	MH	55.00	100.00	55.00	68.20
Z-CLAB	Common Building Laborers	1.00	1.24	MH	49.00	100.00	49.00	60.76

Activity: 321613130441 Cast-in place concrete curbs & gutters, radius steel forms, 6" high curb, 6" thick gutter, 24" wide (Unreviewed) Quantity: 55.00 Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	5.41	0.00	5.41	0.00	11.45	0.00	0.00	16.86
Total	297.79	0.00	297.79	0.00	629.70	0.00	0.00	927.49

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
5.4144	0.0160	62.5000	338.3977	0.1100	500.0000	0.0020	8,431.7273

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
5.2800	10.4167	0.0960	56.3996	5.4144

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS736 RS Means Crew C2A Prod: US 500 Eff: 100.00 Crew Hrs: 0.88 Labor Pcs: 6.00 Equipment Pcs: 0.00

Notes: Cast-in place concrete curbs & gutters, radius steel forms, 6" high curb, 6" thick gutter, 24" wide, radius, includes concrete

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32161055	Cast-in place concrete curbs & gutters, radius ste	1.00	55.00	LF	10.70	107.00	11.45	629.70
Z-CARP	Carpenters	3.00	2.64	MH	58.60	100.00	58.60	154.70
Z-CARP-FORO	Carpenters - Foreman	1.00	0.88	MH	58.60	100.00	58.60	51.57
Z-CEFI	Cement Finishers	1.00	0.88	MH	55.00	100.00	55.00	48.40
Z-CLAB	Common Building Laborers	1.00	0.88	MH	49.00	100.00	49.00	43.12

Biditem

2302

Median

Takeoff Qty: 1.000 EA

Bid Qty: 1.000 EA

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	380.20	0.00	380.20	80.59	1,581.41	0.00	0.00	2,042.20
Total	380.20	0.00	380.20	80.59	1,581.41	0.00	0.00	2,042.20

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
6.8600	0.1458	6.8600	297.6968	55.4227	55.4227	0.8285

Activity: 033053404650 Structural concrete, in place, slab on grade (3500 psi), 4" thick, includes forms(4 uses), Grade 60 (Unreviewed) Quantity: 2.20 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	83.84	0.00	83.84	0.49	250.38	0.00	0.00	334.71
Total	184.44	0.00	184.44	1.08	550.84	0.00	0.00	736.36

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
84.3273	0.1317	7.5914	640.1656	0.0362	60.7315	0.0165	20,327.3982

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
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3.1900	0.6897	1.4500	57.8182	83.8364
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Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS688 RS Means Crew C14E Prod: US 60.7315 Eff: 100.00 Crew Hrs: 0.29 Labor Pcs: 11.00 Equipment Pcs: 1.00

Notes: Structural concrete, in place, slab on grade (3500 psi), 4" thick, includes forms(4 uses), Grade 60 rebar, concrete (Portland ceC.Y.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z03301440	Structural concrete, in place, slab on grade (3500	1.00	2.20	CY	234.00	107.00	250.38	550.84
8Z5433103000	Gas Engine Vibrator	1.00	0.29	HR	3.71	100.00	3.72	1.08
Z-CARP	Carpenters	2.00	0.58	MH	58.60	100.00	58.60	33.99
Z-CARP-FORO	Carpenters - Foreman	1.00	0.29	MH	58.60	100.00	58.59	16.99
Z-CEFI	Cement Finishers	1.00	0.29	MH	55.00	100.00	55.00	15.95
Z-CLAB	Common Building Laborers	3.00	0.87	MH	49.00	100.00	49.00	42.63
Z-RODM	Rodmen (Reinforcing)	4.00	1.16	MH	64.55	100.00	64.55	74.88

Activity: 072613100900 Vapor retarders, building paper, polyethylene vapor barrier, standard, 6 mil (.006" thick), 9' x 400' (Unreviewed) Quantity: 1.70 Unit: SQ

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	12.75	0.00	12.75	0.00	7.33	0.00	0.00	20.08
Total	21.68	0.00	21.68	0.00	12.46	0.00	0.00	34.14

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
12.7529	0.2160	4.6296	59.0414	0.0459	37.0370	0.0270	743.7908

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.3700	4.5946	0.2176	58.5946	12.7529

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS1146 RS Means Crew CARP Prod: US 37.037 Eff: 100.00 Crew Hrs: 0.37 Labor Pcs: 1.00 Equipment Pcs: 0.00

Notes: Vapor retarders, building paper, polyethylene vapor barrier, standard, 6 mil (.006" thick), 9' x 400' roll

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z07261030	Vapor retarders, building paper, polyethylene vapo	1.00	1.70	SQ	6.85	107.00	7.33	12.46
Z-CARP	Carpenters	1.00	0.37	MH	58.60	100.00	58.59	21.68

Activity: 321613130454 Cast-in place concrete curbs & gutters, median mall, radius, 4' x 9" high, includes concrete (Unreviewed) Quantity: 55.00 Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	3.17	0.00	3.17	1.45	18.51	0.00	0.00	23.12
Total	174.08	0.00	174.08	79.51	1,018.11	0.00	0.00	1,271.70

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
4.6107	0.0100	100.0000	461.0727	0.0688	800.0000	0.0013	18,497.4545

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
3.3000	16.6667	0.0600	52.7515	3.1651

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS542 RS Means Crew B69B Prod: US 800 Eff: 100.00 Crew Hrs: 0.55 Labor Pcs: 6.00 Equipment Pcs: 1.00

Notes: Cast-in place concrete curbs & gutters, median mall, radius, 4' x 9" high, includes concrete

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32161105	Cast-in place concrete curbs & gutters, median mal	1.00	55.00	LF	17.30	107.00	18.51	1,018.11
8Z5433504700	Curb/Gutter Paver, 4-Track	1.00	0.55	HR	144.56	100.00	144.56	79.51
Z-CEFI	Cement Finishers	1.00	0.55	MH	55.00	100.00	55.00	30.25
Z-CLAB	Common Building Laborers	3.00	1.65	MH	49.00	100.00	49.00	80.85

Z-CLAB-FORO	Common Building Laborers - Foreman	1.00	0.55	MH	49.50	100.00	49.51	27.23
Z-EQMD	Equipment Operators, Medium Equipment	1.00	0.55	MH	65.00	100.00	65.00	35.75

Biditem

2303

Demolition

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	3,970.22	0.00	3,970.22	859.98	0.00	0.00	0.00	4,830.20
Total	3,970.22	0.00	3,970.22	859.98	0.00	0.00	0.00	4,830.20

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
74.4400	0.0134	74.4400	64.8872	53.3345	53.3345	0.0403

Activity: 024113176000

Demolish, remove pavement & curb, remove concrete curbs, plain, excludes hauling and disposal fees

Quantity: 826.00

Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	3.57	0.00	3.57	0.77	0.00	0.00	0.00	4.35
Total	2,951.51	0.00	2,951.51	639.27	0.00	0.00	0.00	3,590.78

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
4.3472	0.0223	44.7760	194.6497	2.3059	358.2077	0.0028	1,557.1972

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
55.3400	14.9259	0.0670	53.3341	3.5733

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS500 RS Means Crew B6 Prod: US 358.2077 Eff: 100.00 Crew Hrs: 18.45 Labor Pcs: 3.00 Equipment Pcs: 1.00

Notes: Demolish, remove pavement & curb, remove concrete curbs, plain, excludes hauling and disposal fees

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z02411095	Demolish, remove pavement & curb, remove concrete	1.00	826.00	LF	0.00	107.00	0.00	0.00
8Z5433200450	Backhoe Loader, 48 H.P.	1.00	18.45	HR	34.65	100.00	34.65	639.27
Z-CLAB	Common Building Laborers	2.00	36.89	MH	49.00	100.00	49.00	1,807.61
Z-EQLT	Equipment Operators, Light Equipment	1.00	18.45	MH	62.00	100.00	62.00	1,143.90

Activity: 024113176500

Demolish, remove pavement & curb, berms, bituminous, under 4" in height, excludes hauling and dispos

Quantity: 60.00

Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.40	0.00	2.40	0.52	0.00	0.00	0.00	2.92
Total	144.00	0.00	144.00	31.18	0.00	0.00	0.00	175.18

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.9197	0.0150	66.6667	194.6444	0.1125	533.3333	0.0019	1,557.1556

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
2.7000	22.2222	0.0450	53.3333	2.4000

Calendar: 508 Five - 8 hr shifts Hrs/Shift: 8 WC: Code not found.

Crew: RS500 RS Means Crew B6 Prod: US 533.3333 Eff: 100.00 Crew Hrs: 0.90 Labor Pcs: 3.00 Equipment Pcs: 1.00

Notes: Demolish, remove pavement & curb, berms, bituminous, under 4" in height, excludes hauling and disposal fees

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z02411120	Demolish, remove pavement & curb, berms, bituminou	1.00	60.00	LF	0.00	107.00	0.00	0.00
8Z5433200450	Backhoe Loader, 48 H.P.	1.00	0.90	HR	34.65	100.00	34.64	31.18

Z-CLAB	Common Building Laborers	2.00	1.80	MH	49.00	100.00	49.00	88.20
Z-EQLT	Equipment Operators, Light Equipment	1.00	0.90	MH	62.00	100.00	62.00	55.80

Activity: 024113304120

Minor site demolition, sidewalk, concrete, plain, 6" thick, remove, excludes hauling

Quantity: 82.00

Unit: SY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	10.67	0.00	10.67	2.31	0.00	0.00	0.00	12.98
Total	874.71	0.00	874.71	189.53	0.00	0.00	0.00	1,064.24

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
12.9785	0.0667	15.0002	194.6804	0.6833	120.0015	0.0083	1,557.4434

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
16.4000	5.0000	0.2000	53.3360	10.6672

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS500

RS Means Crew B6

Prod: US

120.0015

Eff: 100.00

Crew Hrs: 5.47

Labor Pcs: 3.00

Equipment Pcs: 1.00

Notes: Minor site demolition, sidewalk, concrete, plain, 6" thick, remove, excludes hauling

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z02411360	Minor site demolition, sidewalk, concrete, plain,	1.00	82.00	SY	0.00	107.00	0.00	0.00
8Z5433200450	Backhoe Loader, 48 H.P.	1.00	5.47	HR	34.65	100.00	34.65	189.53
Z-CLAB	Common Building Laborers	2.00	10.93	MH	49.00	100.00	49.00	535.57
Z-EQLT	Equipment Operators, Light Equipment	1.00	5.47	MH	62.00	100.00	62.00	339.14

Biditem

Sidewalk

2304

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1,217.87	0.00	1,217.87	0.00	1,773.95	0.00	0.00	2,991.82
Total	1,217.87	0.00	1,217.87	0.00	1,773.95	0.00	0.00	2,991.82

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
22.4700	0.0445	22.4700	133.1473	54.1998	54.1998	0.1335

Activity: 320610100310

Sidewalks, driveways, concrete, cast-in-place, 4"thick, with 6 x 6 - W1.4 x W1.4 mesh

Quantity: 562.00

Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.17	0.00	2.17	0.00	3.16	0.00	0.00	5.32
Total	1,217.87	0.00	1,217.87	0.00	1,773.95	0.00	0.00	2,991.82

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.1670	0.0133	75.0003	162.5279	0.9367	600.0027	0.0017	3,194.1281

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
22.4700	25.0111	0.0400	54.1998	2.1670

Calendar: 508

Five - 8 hr shifts

Hrs/Shift: 8

WC:

Code not found.

Crew: RS306

RS Means Crew B24

Prod: US

600

Eff: 100.00

Crew Hrs: 7.49

Labor Pcs: 3.00

Equipment Pcs: 0.00

Notes: Sidewalks, driveways, and patios, sidewalk, concrete, cast-in-place with 6 x 6 - W1.4 x W1.4 mesh, broomed finish, 3,000 psi, 4"S.F.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2Z32061030	Sidewalks, driveways, and patios, sidewalk, concre	1.00	562.00	SF	2.95	107.00	3.16	1,773.95
Z-CARP	Carpenters	1.00	7.49	MH	58.60	100.00	58.60	438.91
Z-CEFI	Cement Finishers	1.00	7.49	MH	55.00	100.00	55.00	411.95

Z-CLAB	Common Building Laborers	1.00	7.49	MH	49.00	100.00	49.00	367.01
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Report Summary

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
Total	4,992,547	17,354	5,009,902	2,371,028	10,214,734	729,531	3,514,545	21,839,741

Job Notes

Estimate created on: 07/28/2023 by User#: 1 - Julio Lostao
Source estimate used: L:\HEAVYBID\EST\ESTMAST

*****Estimate created on: 01/31/2024 by User#: 1 - Julio Lostao
Source estimate used: L:\HEAVYBID\EST\2023_MASTER

Calendars Used In Estimate

508

510

Five - 8 hr shifts

Five- 10 hr shift

Appendix C

Cost Escalation Calculation

SCHEDULE DERIVED ASSUMPTIONS FOR ESCALATION COSTS		
Schedule Milestones	Dates	Notes
Estimate Date	29-Feb-24	
Contractor / Construction Notice to Proceed	4-Sep-24	Based on CMB PS 28 Schedule Dec 2023
Substantial Completion	1-Sep-26	
Midpoint of Construction Milestone	2-Sep-25	Calculated midpoint between Contractor / Construction Notice to Proceed Milestone and Substantial Completion Milestone
Escalation Period (Calendar Days)	552	
Escalation Period (Years)	1.5	

ENR Escalation Rate Annual	3.8%	Building Cost Index (BCI)
Projected escalation % to midpoint of construction:	5.80%	Escalation of 3.8% annual increase per calculated escalation period

CONSTRUCTION ECONOMICS

ENR's 20-city average cost indexes, wages and materials prices.
Historical data for ENR's 20 cities can be found at [ENR.com/economics](https://www.enr.com/economics)

Construction Cost Index
+2.6%
ANNUAL INFLATION RATE
FEB. 2024

1913=100	INDEX VALUE	MONTH	YEAR
CONSTRUCTION COST	13518.12	0.0%	+2.6%
COMMON LABOR	25413.55r	0.0%	+2.0%
WAGE \$/HRL	48.30	0.0%	+2.0%

The Construction Cost Index's annual escalation rose 2.6%, while the monthly component held steady.

Building Cost Index
+3.8%
ANNUAL INFLATION RATE
FEB. 2024

1913=100	INDEX VALUE	MONTH	YEAR
BUILDING COST	8288.93	+0.1%	+3.8%
SKILLED LABOR	11674.53r	+0.2%	+3.6%
WAGE \$/HRL	64.79	+0.2%	+3.6%

The Building Cost Index was up 3.8% on an annual basis, while the monthly component rose 0.1%.

Materials Cost Index
+1.2%
MONTHLY INFLATION RATE
FEB. 2024

1913=100	INDEX VALUE	MONTH	YEAR
MATERIALS COST	6227.36	+1.2%	+5.9%
CEMENT \$/TON	227.60	+2.0%	+23.9%
STEEL \$/CWT	102.74	+2.2%	+8.2%
LUMBER \$/MBF	1028.94	-0.2%	+4.5%

The Materials Cost Index rose 1.2% this month, while the annual escalation rate increased 5.9%.