

I-90 Austin Reconstruction

Approved Layout Design - Cost Estimate

Prepared by:



April 12, 2022

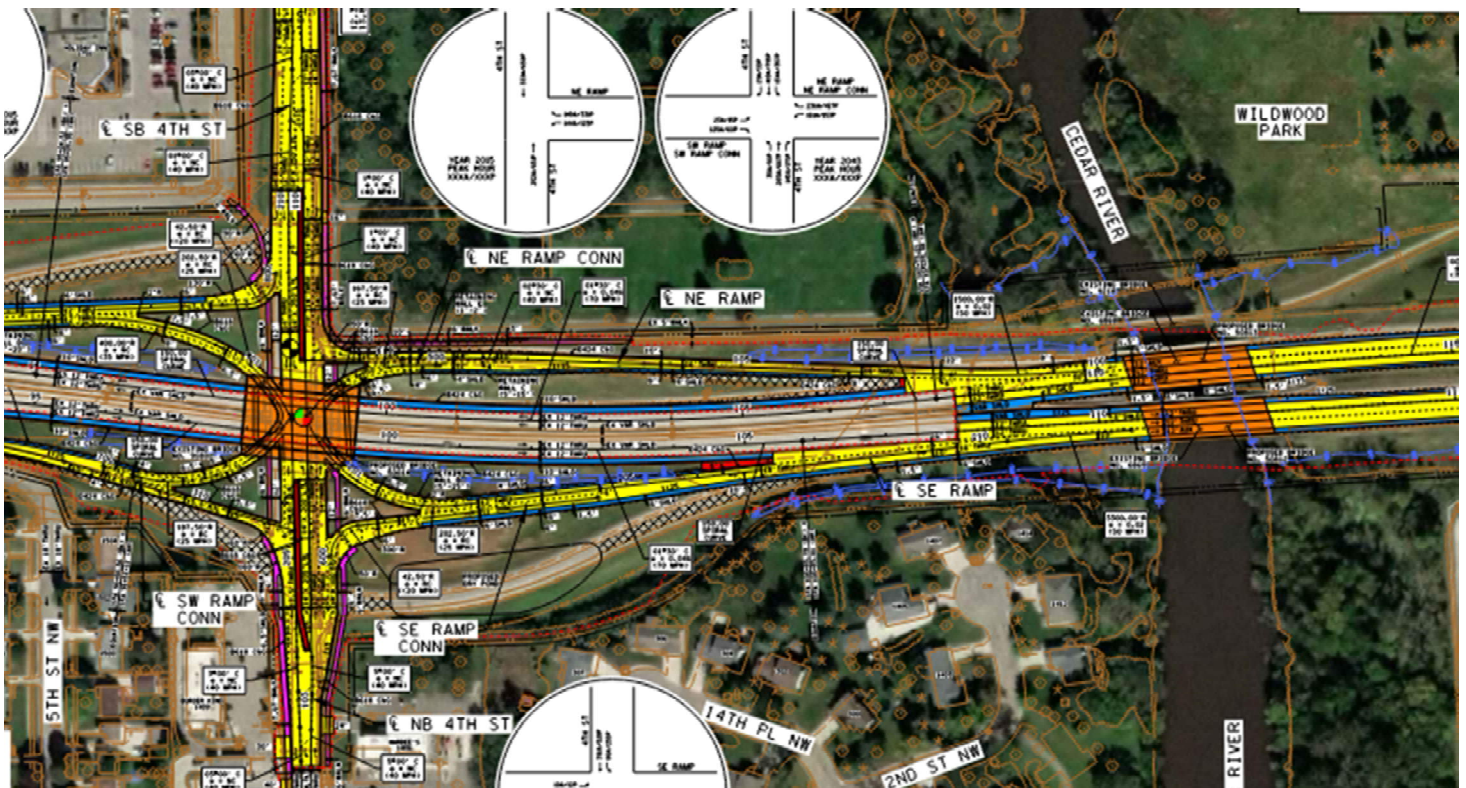




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Basis of Estimate

Layout Cost Estimate for I-90 Austin Reconstruction

Forward - The estimate was performed with approved layout level design information to assist in determining the construction cost of the work. Any assumptions made by the estimator were documented in the Basis of Estimate, Estimate and/or Quantity Survey. As the project design is advanced, the estimate should be reviewed and updated to reflect the current project design.

Schedule – SRF Project Controls has developed a CPM Construction Time Determination schedule at the preliminary layout stage of this project. Based on this schedule, construction is anticipated to begin in early 2023 with clearing and site preparation. Major operations begin in April of 2023 and finish in late 2024. Additional cleanup and support may be needed in the spring of 2025 for closeout/punchlist activities. Total construction duration of 26 months.

Scope of Work - This cost estimate has been developed to provide a full level of effort cost, based on schematic level design information for the following components:

- I-90 Bridge Construction over Cedar River including roadway work associated with profile adjustments (Layout 1B dated 3/15/2022)
- 4th St NW Bridge Construction over I-90 including roadway work associated with profile adjustments (Layout 1B dated 3/15/2022)
- New ramps and shoulders at the I-90 and 4th St NW interchange (Layout 1B dated 3/15/2022)
- TH105/Oakland Ave Bridge Replacement (Layout 1B dated 3/15/2022)
- TH218/21st Street Bridge Replacement (Layout 1B dated 3/15/2022)
- TH218 Interchange Bridge Replacement and RAB (Layout 1C dated 3/21/2022)
- Three median crossovers to be constructed in 2023

Documents Used - The following documentation was used in the preparation of this estimate:

- Layout Level Design dated 03/15/2022
- Email, phone conversations, various shared documents, and meetings with project team

Software Used - In the preparation of the estimate, On-Screen Take-Off was used to develop the quantities for the work. These quantities were then entered into HCSS HeavyBid software for costing and pricing of the work.

Pricing Methodology - This estimate has been developed using a full production style estimate approach. This method of estimating takes known quantities and assigns actual labor, equipment, and material costs to perform the work. Production rates are then tied to the quantities and man-hours and equipment utilizations are generated. All materials, both permanent and construction related, as well as outside rented equipment, has been taxed at 7.88%.

Allowances were used in areas where known scope exists, but design definition has not progressed to a point where this scope can be affectively costed. The intent of these allowances is to provide a sum of money that captures the undefined scope. In theory, as design progresses these allowances should be eliminated and replaced with actual defined costs.



Basis of Estimate

Labor Rates - Labor rates were calculated based on Minnesota Department of Labor & Industry rates for Mower County and estimator experience.

Contingency – No construction or design contingencies have been carried within the cost estimate, but rather are shown on the Cost Summary Sheet so as not to impact the base estimate.

Based on the project being at schematic level design stage, and most of the project being constructed in the existing roadway corridor via remove and replace with full reconstruction, we are recommending a design/construction contingency of 20% be carried. This contingency would account for unknowns discovered, such as, geotechnical information outside of existing road bed for new alignment construction, and additional scope that was not captured as part of this estimate.

We have not included owner related design and construction contingencies or other Owner related costs, which would be carried outside of this construction style cost estimate.

Escalation – At the time of this estimate, it is assumed that the project will begin in spring of 2023 and substantially complete in late 2024. The work has been priced in 2022 dollars. We recommend an escalation rate of 4.5% per year be applied to the estimate. Escalations have been shown on the Cost Summary Sheet.

Exclusions - Costs associated with the following items have been excluded from this estimate:

- Private utility costs (Overhead power, fiber duct bank, Gas, TV, Telephone, and private electrical) have not been carried within this estimate. It is assumed all work associated with private utilities would occur prior to project start or constructed in a manner so as to not impact the work performed in this estimate.
- No real estate costs or right of way acquisition costs are carried within estimate

Estimate Assumptions and Notes – The estimator’s assumptions and notes on specific items are as follows:

1. All general conditions costs including job supervision, supervisor pick-ups, insurance, mobilization, man-hour based items like small tools, safety supplies and construction office rent has been shown under the bid item “Mobilization”. These are indirect costs and have not been spread across direct bid-items, but rather shown as a standalone bid item LS cost.
2. Job was estimated working five 10hr days per week with standard OT rates being applied.
3. Job duration was shown at 26 working months
4. Material unit prices used in the estimate are intended to include all associated delivery and handling charges.
5. Contractor margin/mark-up is set at 10.0%. This costs was spread across all labor costs within the estimate and may cause variances in unit costs.
6. Contractor bond is set at 2%. This costs was spread across all labor costs within the estimate and may cause variances in unit costs.
7. A 5% waste factor is applied to all concrete and asphalt.
8. Truck haul times were assumed to be 45 min roundtrip when hauling dirt offsite, as some material is assumed to be wasted onsite and 30 min roundtrip when hauling onsite and 13cy/load. Haul times for demolished materials are shown at 60 min roundtrip.



Basis of Estimate

9. Bridges were priced at a cost per SF as the design information was not available. These SF costs were derived from assumed similar bridges to that of recent estimates completed.
 - 9.1. Bridge 50813 (I-90 WB): \$225/SF
 - 9.2. Bridge 50812 (I-90 EB): \$225/SF
 - 9.3. Bridge 50014 (4th St NW): \$225/SF
 - 9.4. Bridge 50013 (TH105/Oakland Ave): \$175/SF
 - 9.5. Bridge 50012 (TH218/21st St): \$175/SF
 - 9.6. Bridge 50011 (TH218): \$200/SF
10. The following assumptions were made to generate civil quantities:
 - 10.1. Concrete Pavement: 9"
 - 10.2. Agg Base: 4" for Concrete Section and 9" for Bituminous Sections
 - 10.3. Select Granular Mainline: 20"
 - 10.4. Select Granular Shoulders: 12"
 - 10.5. Bituminous Paved Shoulder: 6"
 - 10.6. Concrete Sidewalk: 4"
 - 10.7. Median/Median Nose: 4"
 - 10.8. Median Barrer: Single Slope
11. Due to limited information at this level of design, allowances were carried within the estimate. The following allowances were used in the estimate:
 - 11.1. Builders Risk Insurance: \$200,000
 - 11.2. Excess Protection & Indemnity: \$15,000
 - 11.3. General Liability Insurance: \$50,000
 - 11.4. 2104.502 Misc Drainage/Utility Removals: \$100,000
 - 11.5. 2104.502 Misc Electrical/Lighting/Signal Removals: \$75,000
 - 11.6. 2104.502 Misc Signage/Striping Removals: \$25,000
 - 11.7. 2360.509 Median Traffic Crossover: (3) EA @ \$25,000/EA
 - 11.8. 2442.501 Remove Existing Bridge: (7) EA @ \$300,000/EA
 - 11.9. 2452.601 Temporary Sheet Piling: \$250,000
 - 11.10. 2501.503 Drainage Allowance: \$250,000
 - 11.11. 2545.502 Misc Lighting/Electrical Allowance: \$100,000
 - 11.12. 2563.601 Traffic Control: \$500,000
 - 11.13. 2563.602 Permanent Signage: \$75,000
 - 11.14. 2573.503 Erosion Control: \$300,000
 - 11.15. 2574.505 Landscaping/Turf Establishment: \$150,000
 - 11.16. 2582.503 Striping: \$75,000
 - 11.17. 2582.503 Signal: \$300,000

Prepared By-
SRF Consulting Group, Inc.
Kyle Dobias
4/13/2022

Quality Check By-
SRF Consulting Group, Inc.
Curt Sohn
4/13/2022

I-90 Austin Approved Layout Cost Estimate Summary Sheet					
	2022 Base Price	20% Contingency	15% Escalation	Construction Cost	
				Total	Rounded
Cost Estimate	\$ 36,187,000	\$ 7,237,400	\$ 6,513,660	\$ 49,938,060	\$ 50,000,000

I-90 AUSTIN - APPROVED LAYOUT COST ESTIMATE

Biditem	Description	Quantity	Units	Unit Price	Bid Total
200	MOBILIZATION	1.000	LS	2,894,390.78	2,894,390.78
300	FIELD OFFICE TYPE D	1.000	EA	71,917.11	71,917.11
400	FIELD LABORATORY TYPE D	1.000	EA	100,683.95	100,683.95
1100	MISC DRAINAGE/UTILITIES REMOVALS	1.000	LS	110,000.00	110,000.00
1400	REMOVE GUARDRAIL - PLATEBEAM	4,289.000	LF	6.43	27,578.27
1500	MISC ELECTRICAL/LIGHTING/SIGNAL REMOVALS	1.000	LS	82,500.00	82,500.00
1525	MISC SIGNAGE/STRIPING REMOVALS	1.000	LS	27,500.00	27,500.00
2450	REMOVE CURB	6,067.000	LF	4.01	24,328.67
2500	REMOVE MEDIAN BARRIER	195.000	LF	25.01	4,876.95
3100	REMOVE CONCRETE PAVEMENT	40,408.000	SY	11.25	454,590.00
3300	REMOVE BITUMINOUS PAVEMENT	10,174.000	SY	7.11	72,337.14
3400	REMOVE BITUMINOUS SHOULDER PAVEMENT	16,379.000	SY	4.30	70,429.70
3450	REMOVE CONCRETE WALK	12,636.000	SF	1.50	18,954.00
3580	REMOVE CONCRETE MEDIAN	1,442.000	SF	1.78	2,566.76
3700	REMOVE EXISTING BRIDGE (FULL)	7.000	EA	330,000.00	2,310,000.00
4200	EXCAVATION - COMMON	26,018.000	CY	7.64	198,777.52
4500	SELECT GRANULAR EMBANKMENT (MAINLINE - 20")	26,804.000	CY	13.41	359,441.64
4550	SELECT GRANULAR EMBANKMENT (SHOULDERS - 12")	5,801.000	CY	14.70	85,274.70
4600	COMMON EMBANKMENT (CV)	28,013.000	CY	4.92	137,823.96
4800	AGGREGATE SURFACING (CV) CLASS 1	65.000	CY	34.31	2,230.15
4900	AGGREGATE BASE (CV) CLASS 5	7,704.000	CY	38.73	298,375.92
5500	CONCRETE PAVEMENT 9.0"	48,249.000	SY	77.66	3,747,017.34
5600	BITUMINOUS PAVEMENT SHOULDER	10,442.000	SY	21.79	227,531.18
5700	CONCRETRE DRIVEWAY PAVEMENT	163.000	SY	88.24	14,383.12
6000	MEDIAN TRAFFIC CROSSOVERS	3.000	EA	27,500.00	82,500.00
6300	STRUCTURE EXCAVATION CLASS U	7,500.000	CY	14.77	110,775.00
6400	STEEL SHEET PILING (TEMPORARY)	1.000	LS	275,000.00	275,000.00
6700	DRAINAGE ALLOWANCE	1.000	LS	275,000.00	275,000.00
7700	BITUMINOUS TRAIL	13,383.000	SF	1.92	25,695.36
7800	4" CONCRETE WALK/MEDIAN	25,048.000	SF	5.75	144,026.00
7900	CONCRETE MEDIAN/MEDIAN NOSE	24,582.000	SF	3.91	96,115.62
8000	CONCRETE CURB & GUTTER DESIGN B424	3,408.000	LF	24.20	82,473.60
8025	CONCRETE CURB & GUTTER DESIGN S524	2,750.000	LF	29.70	81,675.00
8050	CONCRETE CURB & GUTTER DESIGN R424	875.000	LF	31.90	27,912.50

I-90 AUSTIN - APPROVED LAYOUT COST ESTIMATE

Biditem	Description	Quantity	Units	Unit Price	Bid Total
8075	CONCRETE CURB & GUTTER DESIGN B618	4,105.000	LF	20.90	85,794.50
8100	CONCRETE CURB & GUTTER DESIGN B624	4,283.000	LF	28.60	122,493.80
8125	CONCRETE CURB & GUTTER DESIGN D424	3,478.000	LF	23.10	80,341.80
8200	CONC MED BAR DES SINGLE SLOPE	284.000	LF	136.40	38,737.60
8300	MISC LIGHTING/ELECTRICAL ALLOWANCE	1.000	LS	110,000.00	110,000.00
9600	TRAFFIC BARRIER DESIGN TYPE 31	803.000	LF	21.82	17,521.46
10300	TRAFFIC CONTROL	1.000	LS	550,000.00	550,000.00
10620	SIGN PANEL (ALL TYPES) (ALLOWANCE)	1.000	LS	82,500.00	82,500.00
10800	EROSION CONTROL (ALLOWANCE)	1.000	LS	330,000.00	330,000.00
11550	LANDSCAPING/TURF ESTABLISHMENT (ALLOWANCE)	1.000	LS	165,000.00	165,000.00
12500	STRIPING (ALLOWANCE)	1.000	LS	82,500.00	82,500.00
12600	SIGNAL (ALLOWANCE)	1.000	LS	330,000.00	330,000.00
15000	BRIDGE 50813 (OLD 6868) (I-90 WB)	8,918.000	SF	247.50	2,207,205.00
15100	BRIDGE 50812 (OLD 6869 (I-90 EB)	8,983.000	SF	247.50	2,223,292.50
15200	BRIDGE 50014 (OLD 9180) (4TH ST NW)	17,671.000	SF	247.50	4,373,572.50
15300	BRIDGE 50013 (OLD 9183) (TH105/OAKLAND AVE)	20,225.000	SF	192.50	3,893,312.50
15400	BRIDGE 50012 (OLD 9201) (TH218/21ST ST)	12,651.000	SF	192.50	2,435,317.50
15500	BRIDGE 50011 (OLD 50804) (TH218)	11,989.000	SF	220.00	2,637,580.00
16000	CIP RETAINING WALL (RW-A)	888.000	CY	1,049.93	932,337.84
16500	CIP RETAINING WALL (RW-B)	739.000	CY	1,054.35	779,164.65
17000	CIP RETAINING WALL (RW-C)	594.000	CY	1,104.22	655,906.68
17500	CIP RETAINING WALL (RW-D)	631.000	CY	1,090.02	687,802.62
18000	CIP RETAINING WALL (RW-E)	158.000	CY	1,206.22	190,582.76
25003	RETAINING WALL BARRIER	2,324.000	LF	146.25	339,885.00
	Bid Total				\$35,895,530.65

Cost Report

SRF Consulting Group, Inc. 3 Kyle Dobias
 2022_13678_0 I-90 Austin Approved Layout (30%)_R0

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Biditem - Parent

200

MOBILIZATION

Takeoff Qty: 1.000 LS
 Bid Qty: 1.000 LS

Client #: 2021.501

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	48,160.86	38,981.10	87,141.96	384,925.80	0.00	1,965,476.79	179,500.00	2,617,044.55
Total	48,160.86	38,981.10	87,141.96	384,925.80	0.00	1,965,476.79	179,500.00	2,617,044.55

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
1,200.0000	0.0008	1,200.0000	2,180.8705	40.1341	72.6183	0.0000

Biditem

203

STAFF SUPERVISION & PICKUPS

Takeoff Qty: 1.000 LS
 Bid Qty: 1.000 LS

Client #: 2021.501

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.00	0.00	0.00	255,772.80	0.00	1,344,800.00	0.00	1,600,572.80
Total	0.00	0.00	0.00	255,772.80	0.00	1,344,800.00	0.00	1,600,572.80

Activity: 203.1 Supervisory Wages (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	1,344,800.00	0.00	1,344,800.00
Total	0.00	0.00	0.00	0.00	0.00	1,344,800.00	0.00	1,344,800.00

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Notes: Does not include vehicles, meals, relocation, travel or subsistence, etc. Include wages, tax, insurance, fringes, and cell phones. Bonuses are part of profit.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
7PAPM	Project Manager - JV	1.00	112.00	WK	3,200.00	100.00	3,200.00	358,400.00
7PCGS	Superintendent - Civil	2.00	200.00	WK	2,700.00	100.00	2,700.00	540,000.00
7PCPE1	Project Engr 1 - Civil	2.00	186.00	WK	2,400.00	100.00	2,400.00	446,400.00

Activity: 203.2 Supervisory Vehicles (Unreviewed) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Notes: Assumed 5 salaried trucks:

5 trucks. 498 weeks @ 40hrs/week = 19,920 hrs

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8TRKPU	→ Pick-Up Truck	1.00	19,920.00	HR	12.84	100.00	12.84	255,772.80

Biditem **Client #: 2021.501**
205 **MOBILIZATION**
 Takeoff Qty: 1.000 LS
 Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	28,416.08	22,853.71	51,269.79	106,633.20	0.00	6,742.50	147,500.00	312,145.49
Total	28,416.08	22,853.71	51,269.79	106,633.20	0.00	6,742.50	147,500.00	312,145.49

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
700.0000	0.0014	700.0000	445.9221	40.5944	73.2426	0.0000

Activity: 205.1 **Mobe Equipment On-Site** (Unreviewed) **Quantity:** 1.00 **Unit:** LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	28,416.08	22,853.71	51,269.79	106,633.20	0.00	0.00	0.00	157,902.99
Total	28,416.08	22,853.71	51,269.79	106,633.20	0.00	0.00	0.00	157,902.99

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
700.0000	0.0014	700.0000	73.2426	28,416.0800

Calendar: 510 5 - 10 hour shifts **Hrs/Shift:** 10 **WC:** 0000 **Company Average WC Rate**

Notes: Add all equipment used on-site with assumed hrs for bringing to site as well as equipment set-up time. Add operators, labor, and FM time to manage equipment set-up.

Does not include trucking time for equipm mobe.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8CRNCRWLLRG	→ Crawler Crane 150-300 MTON	1.00	60.00	HR	454.64	100.00	454.64	27,278.40
8CRNRTMED	→ RT Crane 81-140 MTON	1.00	60.00	HR	310.92	100.00	310.92	18,655.20
8DOZMED	→ Std Dozer 130-359 HP	1.00	60.00	HR	135.40	100.00	135.40	8,124.00
8EXCTRMED	→ Track Excavator 6-50 MTON	1.00	60.00	HR	111.86	100.00	111.86	6,711.60
8GENMED	→ Generator 100-500 KW	1.00	60.00	HR	116.21	100.00	116.21	6,972.60
8GRDMED	→ Grader 130-199 HP	1.00	60.00	HR	82.20	100.00	82.20	4,932.00
8LDRBHMED	→ Backhoe 76-99 HP	1.00	60.00	HR	41.09	100.00	41.09	2,465.40
8LDRMED	→ Loader 101-349 HP	1.00	60.00	HR	88.54	100.00	88.54	5,312.40
8LDRSKD	→ Skid 0-100 HP	1.00	60.00	HR	34.25	100.00	34.25	2,055.00
8MILLRCMED	→ Pvmt Reclaimer 400-500 HP	1.00	60.00	HR	259.96	100.00	259.96	15,597.60
8MISCAIRSMML	→ Air Comp 100-300 CFM	1.00	60.00	HR	20.73	100.00	20.73	1,243.80
8ROLSTATMED	→ Static Compactor 7-10 Mton	1.00	60.00	HR	39.15	100.00	39.15	2,349.00

8TRKWAT1	→ Water Truck 2k Gal	1.00	60.00	HR	35.49	100.00	35.49	2,129.40
8TSBSMMED	→ RT Lift Strght Mast 8-13k lb	1.00	60.00	HR	46.78	100.00	46.78	2,806.80
LAB2FM	→ LABOR FOREPERSON CL2	1.00	140.00	MH	33.80	110.00	68.27	9,558.33
LABCM	→ LABORER, COMMON (GENERAL LAB	1.00	140.00	MH	32.80	110.00	66.86	9,360.20
OPRHH2CR	→ ALL CRANES WITH OVER 135-FOO	1.00	140.00	MH	39.49	110.00	77.29	10,820.08
OPRHH2GR	→ GRADER OR MOTOR PATROL. GR 2	1.00	140.00	MH	39.49	110.00	77.29	10,820.08
OPRHH3FEL	→ FRONT END LOADER 5 CUBIC YAR	1.00	140.00	MH	38.94	110.00	76.51	10,711.10

Activity: 205.2 Mob Trucking (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	6,742.50	147,500.00	154,242.50
Total	0.00	0.00	0.00	0.00	0.00	6,742.50	147,500.00	154,242.50

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Notes: Trucking equipment and supplies in and out. Direct material trucking is included in material cost.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
31PCLPLP	Load permits	1.00	25.00	EA	250.00	107.88	269.70	6,742.50
45TRFB	Flatbed Truck - Semi	20.00	1,000.00	HR	135.00	100.00	135.00	135,000.00
45TRLOC	Local Equipment	1.00	50.00	EA	250.00	100.00	250.00	12,500.00

Notes: A FIELD INDIRECT ITEM.

Biditem 208 PERSONNEL & MH RELATED EXPENSE

Takeoff Qty: 1.000 LS Client #: 2021.501

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	285,882.00	0.00	285,882.00
Total	0.00	0.00	0.00	0.00	0.00	285,882.00	0.00	285,882.00

Activity: 4.1 Job Damaged Equip Repairs (Unreviewed) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Notes: Qty = total direct manhours.
Repair of job abused equipment.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
31EHRAER	Job Damaged Equip Repairs	1.00	100,000.00	TLHR	0.25	107.88	0.27	26,970.00

Activity: 4.2 Small Tools & Equipment (Unreviewed) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Notes: Qty = project direct craft manhours.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
31STSSTE	Small Tools & Equip - All	1.00	100,000.00	TLHR	1.00	107.88	1.08	107,880.00

Activity: 4.3 Safety Expense (Unreviewed) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Notes: Safety expense includes lanyards, hardhesses, hard hats, eye protection, hearing protection, dust masks, face masks, gloves, safety clothing/gear, rebar caps, etc.

Blood test typical for cutting/burning work around lead paint.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
31SASE	Safety Expense	1.00	100,000.00	TLHR	0.75	107.88	0.81	80,910.00

Activity: 4.4 Crew Sanitation & Water (Unreviewed) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Notes: Porta-jons, drinking water, ice, trash service, etc for prime contractor.
Qty = total direct craft manhours.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
31SHT	Sanitation/Hydration/Trash	1.00	100,000.00	TLHR	0.65	107.88	0.70	70,122.00

<p>Biditem</p> <p>211</p>	<p>INSURANCE</p> <p>Takeoff Qty: 1.000 LS</p> <p>Bid Qty: 1.000 LS</p>	<p>Client #: 2021.501</p>
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	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.00	0.00	0.00	0.00	0.00	285,882.00	0.00	285,882.00
Total	0.00	0.00	0.00	0.00	0.00	285,882.00	0.00	285,882.00

Activity: 211.1 Project Insurance (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	285,882.00	0.00	285,882.00
Total	0.00	0.00	0.00	0.00	0.00	285,882.00	0.00	285,882.00

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
319CIGL	General Liability	1.00	1.00	LS	50,000.00	107.88	53,940.00	53,940.00

31PCIBR	Builders Risk	1.00	1.00	LS	200,000.00	107.88	215,760.00	215,760.00
31PCIEPI	Excess P&I	1.00	1.00	LS	15,000.00	107.88	16,182.00	16,182.00

Biditem **OTHER FIELD INDIRECTS**
215 Takeoff Qty: 1.000 LS **Client #: 2021.501**
Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	19,744.78	16,127.39	35,872.17	22,519.80	0.00	42,170.29	32,000.00	132,562.26
Total	19,744.78	16,127.39	35,872.17	22,519.80	0.00	42,170.29	32,000.00	132,562.26

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
500.0000	0.0020	500.0000	265.1245	39.4896	71.7443	0.0083

Activity: 215.1 Cleanup/Restore Office Site (Unreviewed) Quantity: 1.00 Unit: LS

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	3,961.98	3,236.90	7,198.88	4,811.80	0.00	0.00	0.00	12,010.68
Total	3,961.98	3,236.90	7,198.88	4,811.80	0.00	0.00	0.00	12,010.68

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
12,010.6800	20.0000	0.0500	600.5340	2.0000	0.5000	2.0000	6,005.3400

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
100.0000	0.0100	100.0000	71.9888	3,961.9800

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: BASE (Mod) Base Crew Prod: MU 100 Eff: 100.00 Crew Hrs: 20.00 Labor Pcs: 5.00 Equipment Pcs: 4.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8GRDMED	Grader 130-199 HP	1.00	20.00	HR	82.20	100.00	82.20	1,644.00
8LDRMED	Loader 101-349 HP	1.00	20.00	HR	88.54	100.00	88.54	1,770.80
8ROLVBMED	Vib Compactor 3-8 Mton	1.00	20.00	HR	57.01	100.00	57.01	1,140.20
8TRKPU	Pick-Up Truck	1.00	20.00	HR	12.84	100.00	12.84	256.80
LAB2FM	LABOR FOREPERSON CL2	1.00	20.00	MH	33.80	110.00	68.27	1,365.48
LABCM	LABORER, COMMON (GENERAL LAB	1.00	20.00	MH	32.80	110.00	66.86	1,337.17
OPRHH2GR	GRADER OR MOTOR PATROL. GR 2	1.00	20.00	MH	39.49	110.00	77.29	1,545.73
OPRHH3FEL	FRONT END LOADER 5 CUBIC YAR	1.00	20.00	MH	38.94	110.00	76.51	1,530.16
OPRHH5SFC	SHEEP FOOT COMPACTOR WITH BL	1.00	20.00	MH	35.06	110.00	71.02	1,420.34

Activity: 215.2 Snow Removal (Unreviewed) Quantity: 1.00 Unit: LS

Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
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U. Cost	15,782.80	12,890.49	28,673.29	17,708.00	0.00	0.00	0.00	46,381.29
Total	15,782.80	12,890.49	28,673.29	17,708.00	0.00	0.00	0.00	46,381.29

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
46,381.2900	100.0000	0.0100	463.8129	10.0000	0.1000	10.0000	4,638.1290

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
400.0000	0.0025	400.0000	71.6832	15,782.8000

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: EX3 (Mod) Excavation - 3 man Prod: MU 400 Eff: 100.00 Crew Hrs: 100.00 Labor Pcs: 4.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LDRMED	Loader 101-349 HP	2.00	200.00	HR	88.54	100.00	88.54	17,708.00
LABCM	LABORER, COMMON (GENERAL LAB	2.00	200.00	MH	32.80	110.00	66.86	13,371.71
OPRH3FEL	FRONT END LOADER 5 CUBIC YAR	2.00	200.00	MH	38.94	110.00	76.51	15,301.58

Activity: 215.3 Hired Engineering (Unreviewed) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Notes: Outside engineering & design services that may be needed for temp structures, falsework, shoring, formwork, etc.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
45DEHR	Design per hr	1.00	200.00	HR	160.00	100.00	160.00	32,000.00

Activity: 215.4 Contractor Field Office (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	42,170.29	0.00	42,170.29
Total	0.00	0.00	0.00	0.00	0.00	42,170.29	0.00	42,170.29

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
31PCJOEH	Electr Hookup - Office Trlr	1.00	1.00	LS	5,000.00	107.88	5,394.00	5,394.00
31PCJOESM	Electr serv - Office monthly	1.00	24.00	MO	300.00	107.88	323.64	7,767.36
31PCJOOSGS	General Supplies	1.00	100.00	WK	50.00	107.88	53.94	5,394.00
31PCJOOSPF	Printer & Fax Supplies	1.00	100.00	WK	30.00	107.88	32.36	3,236.40
31PCJOPE	Postage & Express Service	1.00	100.00	WK	20.00	107.88	21.58	2,157.60
31PCJOTIHSMD	High Speed Data-Metro Site	1.00	24.00	MO	100.00	107.88	107.88	2,589.12
31PCJOTIII	Install Internet	1.00	5.00	EA	200.00	107.88	215.76	1,078.80
31PCJOTITMS	Telephone Monthly Service	1.00	24.00	MO	100.00	107.88	107.88	2,589.12
31PCJOTITSI	Telephone Service Install	1.00	5.00	EA	250.00	107.88	269.70	1,348.50
31PCJOTS2	2 cy Trash Service	2.00	24.00	MO	285.00	107.88	307.46	7,378.99

31SHTPJ	Porta-Johns	4.00	24.00	MO	125.00	107.88	134.85	3,236.40
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Biditem **300** **FIELD OFFICE TYPE D** **Client #: 2031.502**
 Takeoff Qty: 1.000 EA
 Bid Qty: 1.000 EA

Activity:	300.1	Field Office/Lab	(Unreviewed)	Quantity: 26.00	Unit: MO
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Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
9FIELD/LAB	Field & Lab Office	1.00	26.00	MO	2,500.00	100.00	2,500.00	65,000.00

Biditem **400** **FIELD LABORATORY TYPE D** **Client #: 2031.502**
 Takeoff Qty: 1.000 EA
 Bid Qty: 1.000 EA

Activity:	400.1	Field Office/Lab	(Unreviewed)	Quantity: 26.00	Unit: MO
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Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
9FIELD/LAB	Field & Lab Office	1.00	26.00	MO	3,500.00	100.00	3,500.00	91,000.00

Biditem **1100** **MISC DRAINAGE/UTILITIES REMOVALS** **Client #: 2104.502**
 Takeoff Qty: 1.000 LS
 Bid Qty: 1.000 LS

Activity:	1100.1	Misc Drainage/Utilities Removals	(Unreviewed)	Quantity: 1.00	Unit: LS
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Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4	SUBCONTRACTORS	1.00	1.00	LS	100,000.00	100.00	100,000.00	100,000.00

Biditem **1400** **REMOVE GUARDRAIL - PLATEBEAM** **Client #: 2104.502**
 Takeoff Qty: 4,289.000 LF
 Bid Qty: 4,289.000 LF

Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
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U. Cost	2.09	1.64	3.73	2.08	0.00	0.00	0.00	5.81
Total	8,945.38	7,043.00	15,988.38	8,932.26	0.00	0.00	0.00	24,920.64

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
214.8900	19.9590	0.0501	115.9693	41.6277	74.4026	59.8802

Activity: 1400.1 Remove Guardrail - Platebeam (Unreviewed) Quantity: 4289.00 Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	2.09	1.64	3.73	2.08	0.00	0.00	0.00	5.81
Total	8,945.38	7,043.00	15,988.38	8,932.26	0.00	0.00	0.00	24,920.64

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
5.8104	0.0167	59.8802	347.9258	7.1626	598.8024	0.0017	3,479.2583

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
214.8900	19.9590	0.0501	74.4026	2.0857

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: DEMUND DEMO UNDERGROUND Prod: MU 0.0501 Eff: 100.00 Crew Hrs: 71.63 Labor Pcs: 3.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8EXCTRMED	Track Excavator 6-50 MTON	1.00	71.63	HR	111.86	100.00	111.86	8,012.53
8TRKPU	Pick-Up Truck	1.00	71.63	HR	12.84	100.00	12.84	919.73
OPRHH2DLC	DRAGLINE, CRAWLER, HYDRAULIC	1.00	71.63	MH	39.49	110.00	77.29	5,536.02
SPCGRDCHK	GRADE CHECKER (EXCLUDE SUPER	1.00	71.63	MH	33.40	110.00	67.01	4,799.77
SPCOPRFM	OPERATOR FOREMENS	1.00	71.63	MH	40.64	110.00	78.91	5,652.59

Biditem MISC ELECTRICAL/LIGHTING/SIGNAL REMOVALS

1500

Takeoff Qty: 1.000 LS
Bid Qty: 1.000 LS

Client #: 2104.502

Activity: 1500.1 MISC ELECTRICAL/LIGHTING/SIGNAL REMOVALS Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4	SUBCONTRACTORS	1.00	1.00	LS	75,000.00	100.00	75,000.00	75,000.00

Biditem MISC SIGNAGE/STRIPING REMOVALS

1525

Takeoff Qty: 1.000 LS
Bid Qty: 1.000 LS

Client #: 2104.502

Activity: 1525.1 MISC SIGNAGE/STRIPING REMOVALS Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4	SUBCONTRACTORS	1.00	1.00	LS	25,000.00	100.00	25,000.00	25,000.00

Biditem **REMOVE CURB** **Client #: 2104.503**
2450 Takeoff Qty: 6,067.000 LF
 Bid Qty: 6,067.000 LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.16	0.92	2.07	1.52	0.00	0.03	0.00	3.62
Total	7,009.42	5,559.89	12,569.31	9,227.26	0.00	182.01	0.00	21,978.58

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
168.6600	35.9718	0.0278	130.3129	41.5595	74.5245	140.8451

Activity: 1 Exc Haul (Unreviewed) Quantity: 121.34 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.80	1.43	3.23	4.61	0.00	1.50	0.00	9.34
Total	218.55	173.39	391.94	559.05	0.00	182.01	0.00	1,133.00

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
7.8374	0.0200	50.0000	391.8700	0.2427	500.0000	0.0020	4,668.6995

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
6.0600	20.0231	0.0499	64.6766	1.8011

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: DMDH (Mod) LOAD & HAUL CREW Prod: MU 0.05 Eff: 100.00 Crew Hrs: 2.43 Labor Pcs: 2.50 Equipment Pcs: 2.50

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LDRMED	Loader 101-349 HP	0.50	1.21	HR	88.54	100.00	88.54	107.13
8TRKS&E	Truck - Side or End Dump	2.00	4.85	HR	93.18	100.00	93.18	451.92
944001	Dump Fees (Waste-CY)	1.00	121.34	CY	1.50	100.00	1.50	182.01
OPRHH3FEL	FRONT END LOADER 5 CUBIC YAR	0.50	1.21	MH	38.94	110.00	76.50	92.57
TD1TD6X	SIX OR MORE AXLE TRUCK	2.00	4.85	MH	31.25	110.00	61.73	299.37

Activity: 2450.1 Remove Curb (Unreviewed) Quantity: 6067.00 Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
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U. Cost	1.12	0.89	2.01	1.43	0.00	0.00	0.00	3.44
Total	6,790.87	5,386.50	12,177.37	8,668.21	0.00	0.00	0.00	20,845.58

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3.4359	0.0067	149.2537	512.8203	4.0649	1,492.5373	0.0007	5,128.2027

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
162.6000	37.3124	0.0268	74.8916	1.1193

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: DEMCO1 DEMO FLATWORK Prod: MU 0.0268 Eff: 100.00 Crew Hrs: 40.65 Labor Pcs: 4.00 Equipment Pcs: 3.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8EXCTRMED	Track Excavator 6-50 MTON	1.00	40.65	HR	111.86	100.00	111.86	4,547.11
8LDRMED	Loader 101-349 HP	1.00	40.65	HR	88.54	100.00	88.54	3,599.15
8TRKPU	Pick-Up Truck	1.00	40.65	HR	12.84	100.00	12.84	521.95
LABCM	LABORER, COMMON (GENERAL LAB	1.00	40.65	MH	32.80	110.00	66.86	2,717.80
OPRHH2DLC	DRAGLINE, CRAWLER, HYDRAULIC	1.00	40.65	MH	39.49	110.00	77.29	3,141.69
OPRHH3FEL	FRONT END LOADER 5 CUBIC YAR	1.00	40.65	MH	38.94	110.00	76.51	3,110.04
SPCOPRFM	OPERATOR FOREMENS	1.00	40.65	MH	40.64	110.00	78.91	3,207.84

Biditem **REMOVE MEDIAN BARRIER** **Client #: 2104.503**

2500

Takeoff Qty: 195.000 LF
 Bid Qty: 195.000 LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	7.14	5.67	12.81	9.71	0.00	0.08	0.00	22.60
Total	1,393.21	1,105.11	2,498.32	1,893.90	0.00	15.00	0.00	4,407.22

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
33.7000	5.7864	0.1728	130.7780	41.3415	74.1341	22.1591

Activity: 1 Exc Haul (Unreviewed) Quantity: 10.00 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	9.02	7.15	16.17	23.06	0.00	1.50	0.00	40.73
Total	90.17	71.54	161.71	230.63	0.00	15.00	0.00	407.34

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
39.2340	0.1000	10.0000	392.3400	0.1000	100.0000	0.0100	4,073.4000

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
2.5000	4.0000	0.2500	64.6840	9.0170

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: DMDH (Mod) LOAD & HAUL CREW Prod: MU 0.25 Eff: 100.00 Crew Hrs: 1.00 Labor Pcs: 2.50 Equipment Pcs: 2.50

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LDRMED	Loader 101-349 HP	0.50	0.50	HR	88.54	100.00	88.54	44.27
8TRKS&E	Truck - Side or End Dump	2.00	2.00	HR	93.18	100.00	93.18	186.36
944001	Dump Fees (Waste-CY)	1.00	10.00	CY	1.50	100.00	1.50	15.00
OPRHH3FEL	FRONT END LOADER 5 CUBIC YAR	0.50	0.50	MH	38.94	110.00	76.52	38.26
TD1TD6X	SIX OR MORE AXLE TRUCK	2.00	2.00	MH	31.25	110.00	61.73	123.45

Activity: 2500.1 Remove Barrier (Unreviewed) Quantity: 195.00 Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	6.68	5.30	11.98	8.53	0.00	0.00	0.00	20.51
Total	1,303.04	1,033.57	2,336.61	1,663.27	0.00	0.00	0.00	3,999.88

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
20.5122	0.0400	25.0000	512.8051	0.7800	250.0000	0.0040	5,128.0513

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
31.2000	6.2500	0.1600	74.8913	6.6823

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: DEMCO1 DEMO FLATWORK Prod: MU 0.16 Eff: 100.00 Crew Hrs: 7.80 Labor Pcs: 4.00 Equipment Pcs: 3.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8EXCTRKMED	Track Excavator 6-50 MTON	1.00	7.80	HR	111.86	100.00	111.86	872.51
8LDRMED	Loader 101-349 HP	1.00	7.80	HR	88.54	100.00	88.54	690.61
8TRKPU	Pick-Up Truck	1.00	7.80	HR	12.84	100.00	12.84	100.15
LABCM	LABORER, COMMON (GENERAL LAB	1.00	7.80	MH	32.80	110.00	66.86	521.49
OPRHH2DLC	DRAGLINE, CRAWLER, HYDRAULIC	1.00	7.80	MH	39.49	110.00	77.29	602.83
OPRHH3FEL	FRONT END LOADER 5 CUBIC YAR	1.00	7.80	MH	38.94	110.00	76.51	596.77
SPCOPRFM	OPERATOR FOREMENS	1.00	7.80	MH	40.64	110.00	78.91	615.52

Biditem **REMOVE CONCRETE PAVEMENT** **Client #: 2104.504**

3100 Takeoff Qty: 40,408.000 SY
 Bid Qty: 40,408.000 SY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.25	1.81	4.06	5.73	0.00	0.38	0.00	10.17
Total	90,723.60	73,307.44	164,031.04	231,669.58	0.00	15,153.00	0.00	410,853.62

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
2,250.7100	17.9534	0.0557	182.5440	40.3089	72.8797	17.4398

Activity: 1 Exc Haul (Unreviewed) Quantity: 10102.00 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	3.26	2.56	5.81	16.61	0.00	1.50	0.00	23.92
Total	32,885.80	25,853.13	58,738.93	167,784.09	0.00	15,153.00	0.00	241,676.02

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
22.4236	0.2000	5.0000	112.1179	202.0400	50.0000	0.0200	1,196.1791

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
767.7500	13.1579	0.0760	76.5079	3.2554

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: DMDH (Mod) LOAD & HAUL CREW Prod: MU 0.076 Eff: 100.00 Crew Hrs: 2020.40 Labor Pcs: 0.38 Equipment Pcs: 0.76

Notes: 13CY/LOAD - 90MIN R/T HAUL

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LDRMED	Loader 101-349 HP	0.38	767.75	HR	88.54	100.00	88.54	67,976.59
8TRKS&E	Truck - Side or End Dump	0.38	767.75	HR	130.00	100.00	130.00	99,807.50
944001	Dump Fees (Waste-CY)	1.00	10,102.00	CY	1.50	100.00	1.50	15,153.00
OPRHH3FEL	FRONT END LOADER 5 CUBIC YAR	0.38	767.75	MH	38.94	110.00	76.51	58,738.93

Activity: 3100.1 Remove Conc Pavement (Unreviewed) Quantity: 40408.00 Unit: SY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.43	1.17	2.61	1.58	0.00	0.00	0.00	4.19
Total	57,837.80	47,454.31	105,292.11	63,885.49	0.00	0.00	0.00	169,177.60

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
4.1867	0.0073	136.2398	570.3999	29.6595	1,362.3979	0.0007	5,703.9994

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1,482.9600	27.2482	0.0367	71.0013	1.4313

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: DEMOC2 (Mod) HAND DEMO CREW Prod: MU 0.0367 Eff: 100.00 Crew Hrs: 296.59 Labor Pcs: 5.00 Equipment Pcs: 3.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8EXCTRKMED	Track Excavator 6-50 MTON	1.00	296.59	HR	111.86	100.00	111.86	33,176.56
8LDRMED	Loader 101-349 HP	1.00	296.59	HR	88.54	100.00	88.54	26,260.08
8LDRSKDAT4	Skid Att - Hammer	1.00	296.59	HR	15.00	100.00	15.00	4,448.85
LAB2FM	LABOR FOREPERSON CL2	1.00	296.59	MH	33.80	110.00	68.27	20,249.32

LABCM	LABORER, COMMON (GENERAL LAB	2.00	593.19	MH	32.80	110.00	66.86	39,659.83
OPRHH3DRLC	DRAGLINE, CRAWLER, HYDRAULIC	1.00	296.59	MH	38.94	110.00	76.51	22,691.48
OPRHH3FEL	FRONT END LOADER 5 CUBIC YAR	1.00	296.59	MH	38.94	110.00	76.51	22,691.48

Biditem

REMOVE BITUMINOUS PAVEMENT

3300

Takeoff Qty: 10,174.000 SY

Client #: 2104.504

Bid Qty: 10,174.000 SY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.36	1.07	2.43	3.72	0.00	0.27	0.00	6.42
Total	13,804.11	10,932.37	24,736.48	37,861.53	0.00	2,746.98	0.00	65,344.99

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
329.0800	30.9165	0.0323	198.5687	41.9476	75.1686	56.2177

Activity: 1 Exc Haul (Unreviewed) Quantity: 1831.32 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.32	1.04	2.36	12.74	0.00	1.50	0.00	16.59
Total	2,415.84	1,899.20	4,315.04	23,324.96	0.00	2,746.98	0.00	30,386.98

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
15.0929	0.0616	16.2338	245.0153	11.2809	162.3377	0.0062	2,693.6591

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
56.4000	32.4702	0.0308	76.5078	1.3192

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: DMDH (Mod) LOAD & HAUL CREW Prod: MU 0.0308 Eff: 100.00 Crew Hrs: 112.81 Labor Pcs: 0.50 Equipment Pcs: 1.75

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LDRMED	Loader 101-349 HP	0.50	56.40	HR	88.54	100.00	88.54	4,993.66
8TRKS&E	Truck - Side or End Dump	1.25	141.01	HR	130.00	100.00	130.00	18,331.30
944001	Dump Fees (Waste-CY)	1.00	1,831.32	CY	1.50	100.00	1.50	2,746.98
OPRHH3FEL	FRONT END LOADER 5 CUBIC YAR	0.50	56.40	MH	38.94	110.00	76.51	4,315.04

Activity: 3300.1 Remove Bituminous Pavement (Unreviewed) Quantity: 10174.00 Unit: SY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.12	0.89	2.01	1.43	0.00	0.00	0.00	3.44
Total	11,388.27	9,033.17	20,421.44	14,536.57	0.00	0.00	0.00	34,958.01

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3.4360	0.0067	149.2537	512.8380	6.8166	1,492.5373	0.0007	5,128.3796

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
272.6800	37.3111	0.0268	74.8916	1.1194

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: DEMCO1 DEMO FLATWORK Prod: MU 0.0268 Eff: 100.00 Crew Hrs: 68.17 Labor Pcs: 4.00 Equipment Pcs: 3.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8EXCTRMED	Track Excavator 6-50 MTON	1.00	68.17	HR	111.86	100.00	111.86	7,625.50
8LDRMED	Loader 101-349 HP	1.00	68.17	HR	88.54	100.00	88.54	6,035.77
8TRKPU	Pick-Up Truck	1.00	68.17	HR	12.84	100.00	12.84	875.30
LABCM	LABORER, COMMON (GENERAL LAB	1.00	68.17	MH	32.80	110.00	66.86	4,557.74
OPRHH2DLC	DRAGLINE, CRAWLER, HYDRAULIC	1.00	68.17	MH	39.49	110.00	77.29	5,268.61
OPRHH3FEL	FRONT END LOADER 5 CUBIC YAR	1.00	68.17	MH	38.94	110.00	76.51	5,215.54
SPCOPRFM	OPERATOR FOREMENS	1.00	68.17	MH	40.64	110.00	78.91	5,379.55

Biditem REMOVE BITUMINOUS SHOULDER PAVEMENT

3400

Takeoff Qty: 16,379.000 SY

Client #: 2104.504

Bid Qty: 16,379.000 SY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.79	0.62	1.41	2.31	0.00	0.17	0.00	3.89
Total	12,926.47	10,225.78	23,152.25	37,793.99	0.00	2,729.25	0.00	63,675.49

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
307.1800	53.3205	0.0188	207.2905	42.0811	75.3703	69.4023

Activity: 1 Exc Haul (Unreviewed) Quantity: 1819.50 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.14	1.68	3.83	14.44	0.00	1.50	0.00	19.76
Total	3,897.04	3,063.65	6,960.69	26,268.37	0.00	2,729.25	0.00	35,958.31

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
18.2627	0.1000	10.0000	182.6274	18.1950	100.0000	0.0100	1,976.2743

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
90.9800	19.9989	0.0500	76.5079	2.1418

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: DMDH (Mod) LOAD & HAUL CREW Prod: MU 0.05 Eff: 100.00 Crew Hrs: 181.95 Labor Pcs: 0.50 Equipment Pcs: 1.27

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LDRMED	Loader 101-349 HP	0.50	90.98	HR	88.54	100.00	88.54	8,055.37

8TRKS&E	Truck - Side or End Dump	0.77	140.10	HR	130.00	100.00	130.00	18,213.00
944001	Dump Fees (Waste-CY)	1.00	1,819.50	CY	1.50	100.00	1.50	2,729.25
OPRHH3FEL	FRONT END LOADER 5 CUBIC YAR	0.50	90.98	MH	38.94	110.00	76.51	6,960.69

Activity: 3400.1 Remove Bituminous Pavement (Unreviewed) Quantity: 16379.00 Unit: SY

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	0.55	0.44	0.99	0.70	0.00	0.00	0.00	1.69
Total	9,029.43	7,162.13	16,191.56	11,525.62	0.00	0.00	0.00	27,717.18

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1.6922	0.0033	303.0303	512.7996	5.4051	3,030.3030	0.0003	5,127.9965

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
216.2000	75.7586	0.0132	74.8916	0.5513

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: DEMCO1 DEMO FLATWORK Prod: MU 0.0132 Eff: 100.00 Crew Hrs: 54.05 Labor Pcs: 4.00 Equipment Pcs: 3.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8EXCTRMED	Track Excavator 6-50 MTON	1.00	54.05	HR	111.86	100.00	111.86	6,046.03
8LDRMED	Loader 101-349 HP	1.00	54.05	HR	88.54	100.00	88.54	4,785.59
8TRKPU	Pick-Up Truck	1.00	54.05	HR	12.84	100.00	12.84	694.00
LABCM	LABORER, COMMON (GENERAL LAB	1.00	54.05	MH	32.80	110.00	66.86	3,613.70
OPRHH2DLC	DRAGLINE, CRAWLER, HYDRAULIC	1.00	54.05	MH	39.49	110.00	77.29	4,177.32
OPRHH3FEL	FRONT END LOADER 5 CUBIC YAR	1.00	54.05	MH	38.94	110.00	76.51	4,135.25
SPCOPRFM	OPERATOR FOREMENS	1.00	54.05	MH	40.64	110.00	78.91	4,265.29

Biditem **REMOVE CONCRETE WALK** Client #: 2104.518
3450 Takeoff Qty: 12,636.000 SF
 Bid Qty: 12,636.000 SF

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	0.36	0.28	0.64	0.68	0.00	0.04	0.00	1.36
Total	4,492.24	3,561.34	8,053.58	8,575.25	0.00	505.44	0.00	17,134.27

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
107.4000	117.6536	0.0085	159.5370	41.8272	74.9868	333.3333

Activity: 1 Exc Haul (Unreviewed) Quantity: 252.72 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
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U. Cost	1.07	0.84	1.91	12.61	0.00	2.00	0.00	16.52
Total	270.71	212.82	483.53	3,186.67	0.00	505.44	0.00	4,175.64

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
14.5228	0.0500	20.0000	290.4558	1.2636	200.0000	0.0050	3,304.5584

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
6.3200	39.9873	0.0250	76.5079	1.0712

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: DMDH (Mod) LOAD & HAUL CREW Prod: MU 0.025 Eff: 100.00 Crew Hrs: 12.64 Labor Pcs: 0.50 Equipment Pcs: 2.04

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LDRMED	Loader 101-349 HP	0.50	6.32	HR	88.54	100.00	88.54	559.57
8TRKS&E	Truck - Side or End Dump	1.54	19.46	HR	135.00	100.00	135.00	2,627.10
944001	Dump Fees (Waste-CY)	1.00	252.72	CY	2.00	100.00	2.00	505.44
OPRHH3FEL	FRONT END LOADER 5 CUBIC YAR	0.50	6.32	MH	38.94	110.00	76.51	483.53

Activity: 3450.1 Remove Concrete Walk (Unreviewed) Quantity: 12636.00 Unit: SF

U. Cost	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
0.33	0.26	0.60	0.43	0.00	0.00	0.00	0.00	1.03
Total	4,221.53	3,348.52	7,570.05	5,388.58	0.00	0.00	0.00	12,958.63

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1.0255	0.0020	500.0000	512.7663	2.5272	5,000.0000	0.0002	5,127.6630

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
101.0800	125.0099	0.0080	74.8917	0.3341

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: DEMCO1 DEMO FLATWORK Prod: MU 0.008 Eff: 100.00 Crew Hrs: 25.27 Labor Pcs: 4.00 Equipment Pcs: 3.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8EXCTRKMED	Track Excavator 6-50 MTON	1.00	25.27	HR	111.86	100.00	111.86	2,826.70
8LDRMED	Loader 101-349 HP	1.00	25.27	HR	88.54	100.00	88.54	2,237.41
8TRKPU	Pick-Up Truck	1.00	25.27	HR	12.84	100.00	12.84	324.47
LABCM	LABORER, COMMON (GENERAL LAB	1.00	25.27	MH	32.80	110.00	66.86	1,689.52
OPRHH2DLC	DRAGLINE, CRAWLER, HYDRAULIC	1.00	25.27	MH	39.49	110.00	77.29	1,953.02
OPRHH3FEL	FRONT END LOADER 5 CUBIC YAR	1.00	25.27	MH	38.94	110.00	76.51	1,933.36
SPCOPRFM	OPERATOR FOREMENS	1.00	25.27	MH	40.64	110.00	78.91	1,994.15

Biditem REMOVE CONCRETE MEDIAN

3580

Takeoff Qty: 1,442.000 SF
 Bid Qty: 1,442.000 SF

Client #: 2104.518

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	0.44	0.35	0.79	0.78	0.00	0.04	0.00	1.61
Total	633.91	502.59	1,136.50	1,125.14	0.00	57.68	0.00	2,319.32

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
15.1600	95.1187	0.0105	152.9894	41.8146	74.9670	285.7143

Activity: 1 Exc Haul (Unreviewed) Quantity: 28.84 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	1.07	0.84	1.91	12.32	0.00	2.00	0.00	16.23
Total	30.84	24.24	55.08	355.35	0.00	57.68	0.00	468.11

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
14.2313	0.0500	20.0000	284.6255	0.1442	200.0000	0.0050	3,246.2552

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
0.7200	40.0556	0.0250	76.5000	1.0693

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: DMDH (Mod) LOAD & HAUL CREW Prod: MU 0.025 Eff: 100.00 Crew Hrs: 1.44 Labor Pcs: 0.50 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LDRMED	Loader 101-349 HP	0.50	0.72	HR	88.54	100.00	88.54	63.75
8TRKS&E	Truck - Side or End Dump	1.50	2.16	HR	135.00	100.00	135.00	291.60
944001	Dump Fees (Waste-CY)	1.00	28.84	CY	2.00	100.00	2.00	57.68
OPRHH3FEL	FRONT END LOADER 5 CUBIC YAR	0.50	0.72	MH	38.94	110.00	76.50	55.08

Activity: 3580.1 Remove Concrete Median (Unreviewed) Quantity: 1442.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	0.42	0.33	0.75	0.53	0.00	0.00	0.00	1.28
Total	603.07	478.35	1,081.42	769.79	0.00	0.00	0.00	1,851.21

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1.2838	0.0025	400.0000	513.5118	0.3605	4,000.0000	0.0003	5,135.1179

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
14.4400	99.8615	0.0100	74.8906	0.4182

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: DEMCO1 DEMO FLATWORK Prod: MU 0.01 Eff: 100.00 Crew Hrs: 3.61 Labor Pcs: 4.00 Equipment Pcs: 3.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8EXCTRMED	Track Excavator 6-50 MTON	1.00	3.61	HR	111.86	100.00	111.86	403.81
8LDRMED	Loader 101-349 HP	1.00	3.61	HR	88.54	100.00	88.54	319.63
8TRKPU	Pick-Up Truck	1.00	3.61	HR	12.84	100.00	12.84	46.35
LABCM	LABORER, COMMON (GENERAL LAB	1.00	3.61	MH	32.80	110.00	66.86	241.37
OPRHH2DLC	DRAGLINE, CRAWLER, HYDRAULIC	1.00	3.61	MH	39.49	110.00	77.28	278.99
OPRHH3FEL	FRONT END LOADER 5 CUBIC YAR	1.00	3.61	MH	38.94	110.00	76.51	276.19
SPCOPRFM	OPERATOR FOREMENS	1.00	3.61	MH	40.64	110.00	78.91	284.87

Biditem **REMOVE EXISTING BRIDGE (FULL)** **Client #: 2442.501**
3700
 Takeoff Qty: 7.000 EA
 Bid Qty: 7.000 EA

Activity: 3700.1 REMOVE EXISTING BRIDGE Quantity: 7.00 Unit: EA

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4BRIDGEDEMO	Bridge Demo	1.00	7.00	EA	300,000.00	100.00	300,000.00	2,100,000.00

Biditem **EXCAVATION - COMMON** **Client #: 2106.507**
4200
 Takeoff Qty: 26,018.000 CY
 Bid Qty: 26,018.000 CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.69	1.34	3.03	3.88	0.00	0.00	0.00	6.91
Total	43,963.64	34,835.14	78,798.78	100,930.63	0.00	0.00	0.00	179,729.41

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
1,043.7400	24.9277	0.0401	172.1975	42.1213	75.4966	126.8115

Activity: 4200.2 Excavation - Common (Truck/Hoe) (Unreviewed) Quantity: 26018.00 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.57	0.46	1.03	1.60	0.00	0.00	0.00	2.62
Total	14,862.00	11,844.05	26,706.05	41,507.25	0.00	0.00	0.00	68,213.30

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.6218	0.0039	253.6231	664.9422	10.2585	2,536.2308	0.0004	6,649.4225

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
359.0600	72.4614	0.0138	74.3777	0.5712

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate
 Crew: BH375 (Mod) LARGE EXCAVATOR CREW Prod: MU 0.0138 Eff: 100.00 Crew Hrs: 102.59 Labor Pcs: 3.50 Equipment Pcs: 2.50

Notes: Assumed 13cy/Truck at a 30min RT haul time to dump

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8DOZMED	Std Dozer 130-359 HP	0.50	51.29	HR	135.40	100.00	135.40	6,944.67
8EXCTRKLGR	Track Excavator 50-200 MTON	1.00	102.59	HR	324.06	100.00	324.06	33,245.32
8TRKPU	Pick-Up Truck	1.00	102.59	HR	12.84	100.00	12.84	1,317.26
LABCM	LABORER, COMMON (GENERAL LAB	1.00	102.59	MH	32.80	110.00	66.86	6,859.02
OPRHH3DRLC	DRAGLINE, CRAWLER, HYDRAULIC	1.00	102.59	MH	38.94	110.00	76.51	7,848.95
OPRHH4BLDZ	BULLDOZER. GR 4	0.50	51.29	MH	38.64	110.00	76.08	3,902.32
SPCOPRFM	OPERATOR FOREMENS	1.00	102.59	MH	40.64	110.00	78.91	8,095.76

Activity: 4200.3 Excavation - Common (Truck/Hoe) - HAUL (Unreviewed) Quantity: 26018.00 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.12	0.88	2.00	2.28	0.00	0.00	0.00	4.29
Total	29,101.64	22,991.09	52,092.73	59,423.38	0.00	0.00	0.00	111,516.11

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
684.6800	38.0002	0.0263	76.0833	1.1185

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Notes: Assumed 13cy/Truck at a 30min RT haul time to dump

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8TRKOFFRD	→ Offroad Truck 300-399 HP	1.00	684.68	HR	86.79	100.00	86.79	59,423.38
OPRHH4WTOR	→ TRACTOR, WHEEL TYPE, OVER 50	1.00	684.68	MH	38.64	110.00	76.08	52,092.73

Biditem **4500** **SELECT GRANULAR EMBANKMENT (MAINLINE - 20")**
 Takeoff Qty: 26,804.000 CY **Client #: 2106.507**
 Bid Qty: 26,804.000 CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.19	0.96	2.14	1.34	8.63	0.00	0.00	12.12
Total	31,763.55	25,697.40	57,460.95	36,049.37	231,329.24	0.00	0.00	324,839.56

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
804.1200	33.3333	0.0300	403.9690	39.5010	71.4582	200.0000

Activity: 4500.1 Select Granular Embankment (CV) (Unreviewed) Quantity: 26804.00 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	1.19	0.96	2.14	1.34	8.63	0.00	0.00	12.12
Total	31,763.55	25,697.40	57,460.95	36,049.37	231,329.24	0.00	0.00	324,839.56

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3.4887	0.0050	200.0000	697.7341	13.4020	2,000.0000	0.0005	24,238.1406

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
804.1200	33.3333	0.0300	71.4582	1.1850

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: EMB (Mod) EMBANKMENT CREW Prod: MU 0.03 Eff: 100.00 Crew Hrs: 134.02 Labor Pcs: 6.00 Equipment Pcs: 4.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2E3009	Select Fill	1.00	26,804.00	CY	8.00	107.88	8.63	231,329.24
8DOZMED	Std Dozer 130-359 HP	1.00	134.02	HR	135.40	100.00	135.40	18,146.31
8GRDMED	Grader 130-199 HP	0.50	67.01	HR	82.20	100.00	82.20	5,508.22
8ROLVBMED	Vib Compactor 3-8 Mton	1.00	134.02	HR	57.01	100.00	57.01	7,640.48
8TRKPU	Pick-Up Truck	1.00	134.02	HR	12.84	100.00	12.84	1,720.82
8TRKWAT2	Water Truck 4k Gal	0.50	67.01	HR	45.27	100.00	45.27	3,033.54
LABCM	LABORER, COMMON (GENERAL LAB	1.00	134.02	MH	32.80	110.00	66.86	8,960.38
OPRHH2GR	GRADER OR MOTOR PATROL. GR 2	0.50	67.01	MH	39.49	110.00	77.29	5,178.95
OPRHH4BLDZ	BULLDOZER. GR 4	1.00	134.02	MH	38.64	110.00	76.08	10,196.69
OPRHH5SFC	SHEEP FOOT COMPACTOR WITH BL	1.00	134.02	MH	35.06	110.00	71.02	9,517.70
SPCGRDCHK	GRADE CHECKER (EXCLUDE SUPER	1.00	134.02	MH	33.40	110.00	67.01	8,980.36
SPCOPRFM	OPERATOR FOREMENS	1.00	134.02	MH	40.64	110.00	78.91	10,576.02
TD4TTH	TANK TRUCK HELPER (GAS, OIL,	0.50	67.01	MH	30.35	110.00	60.45	4,050.85

Biditem SELECT GRANULAR EMBANKMENT (SHOULDERS - 12")

4550

Takeoff Qty: 5,801.000 CY
Bid Qty: 5,801.000 CY

Client #: 2106.507

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	1.58	1.28	2.86	1.79	8.63	0.00	0.00	13.28
Total	9,165.41	7,415.00	16,580.41	10,402.29	50,064.95	0.00	0.00	77,047.65

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
232.0300	25.0011	0.0400	332.0590	39.5010	71.4580	150.0001

Activity: 4550.1 Select Granular Embankment (CV) (Unreviewed) Quantity: 5801.00 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
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U. Cost	1.58	1.28	2.86	1.79	8.63	0.00	0.00	13.28
Total	9,165.41	7,415.00	16,580.41	10,402.29	50,064.95	0.00	0.00	77,047.65

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
4.6514	0.0067	150.0001	697.7088	3.8673	1,500.0013	0.0007	19,922.6986

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
232.0300	25.0011	0.0400	71.4580	1.5800

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: EMB (Mod) EMBANKMENT CREW Prod: MU 0.04 Eff: 100.00 Crew Hrs: 38.67 Labor Pcs: 6.00 Equipment Pcs: 4.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2E3009	Select Fill	1.00	5,801.00	CY	8.00	107.88	8.63	50,064.95
8DOZMED	Std Dozer 130-359 HP	1.00	38.67	HR	135.40	100.00	135.40	5,235.92
8GRDMED	Grader 130-199 HP	0.50	19.34	HR	82.20	100.00	82.20	1,589.75
8ROLVBMED	Vib Compactor 3-8 Mton	1.00	38.67	HR	57.01	100.00	57.01	2,204.58
8TRKPU	Pick-Up Truck	1.00	38.67	HR	12.84	100.00	12.84	496.52
8TRKWAT2	Water Truck 4k Gal	0.50	19.34	HR	45.27	100.00	45.27	875.52
LABCM	LABORER, COMMON (GENERAL LAB	1.00	38.67	MH	32.80	110.00	66.86	2,585.41
OPRHH2GR	GRADER OR MOTOR PATROL. GR 2	0.50	19.34	MH	39.49	110.00	77.29	1,494.72
OPRHH4BLDZ	BULLDOZER. GR 4	1.00	38.67	MH	38.64	110.00	76.08	2,942.14
OPRHH5SFC	SHEEP FOOT COMPACTOR WITH BL	1.00	38.67	MH	35.06	110.00	71.02	2,746.23
SPCGRDCHK	GRADE CHECKER (EXCLUDE SUPER	1.00	38.67	MH	33.40	110.00	67.01	2,591.19
SPCOPRFM	OPERATOR FOREMENS	1.00	38.67	MH	40.64	110.00	78.91	3,051.59
TD4TTH	TANK TRUCK HELPER (GAS, OIL,	0.50	19.34	MH	30.35	110.00	60.45	1,169.13

Biditem **COMMON EMBANKMENT (CV)** **Client #: 2106.507**
4600 Takeoff Qty: 28,013.000 CY
 Bid Qty: 28,013.000 CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.42	1.14	2.57	1.88	0.00	0.00	0.00	4.45
Total	39,901.33	32,049.06	71,950.39	52,664.92	0.00	0.00	0.00	124,615.31

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
980.4900	28.5704	0.0350	127.0949	40.6953	73.3821	200.0000

Activity: 4600.1 Common Embankment (Unreviewed) Quantity: 28013.00 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
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U. Cost	1.42	1.14	2.57	1.88	0.00	0.00	0.00	4.45
Total	39,901.33	32,049.06	71,950.39	52,664.92	0.00	0.00	0.00	124,615.31

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
4.4485	0.0050	200.0000	889.6963	14.0065	2,000.0000	0.0005	8,896.9628

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
980.4900	28.5704	0.0350	73.3821	1.4244

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: EMB (Mod) EMBANKMENT CREW Prod: MU 0.035 Eff: 100.00 Crew Hrs: 140.07 Labor Pcs: 7.00 Equipment Pcs: 5.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8DOZMED	Std Dozer 130-359 HP	1.00	140.07	HR	135.40	100.00	135.40	18,965.48
8GRDMED	Grader 130-199 HP	1.00	140.07	HR	82.20	100.00	82.20	11,513.75
8LDRMED	Loader 101-349 HP	1.00	140.07	HR	88.54	100.00	88.54	12,401.80
8ROLVBMED	Vib Compactor 3-8 Mton	1.00	140.07	HR	57.01	100.00	57.01	7,985.39
8TRKPU	Pick-Up Truck	1.00	140.07	HR	12.84	100.00	12.84	1,798.50
LABCM	LABORER, COMMON (GENERAL LAB	1.00	140.07	MH	32.80	110.00	66.86	9,364.88
OPRHH2GR	GRADER OR MOTOR PATROL. GR 2	1.00	140.07	MH	39.49	110.00	77.29	10,825.49
OPRHH3FEL	FRONT END LOADER 5 CUBIC YAR	1.00	140.07	MH	38.94	110.00	76.51	10,716.47
OPRHH4BLDZ	BULLDOZER. GR 4	1.00	140.07	MH	38.64	110.00	76.08	10,657.00
OPRHH5SFC	SHEEP FOOT COMPACTOR WITH BL	1.00	140.07	MH	35.06	110.00	71.02	9,947.34
SPCGRDCHK	GRADE CHECKER (EXCLUDE SUPER	1.00	140.07	MH	33.40	110.00	67.01	9,385.76
SPCOPRFM	OPERATOR FOREMENS	1.00	140.07	MH	40.64	110.00	78.91	11,053.45

Biditem **AGGREGATE SURFACING (CV) CLASS 1**

4800

Takeoff Qty: 65.000 CY
Bid Qty: 65.000 CY

Client #: 2118.507

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.68	1.33	3.00	2.06	25.95	0.00	0.00	31.01
Total	108.89	86.33	195.22	134.18	1,686.43	0.00	0.00	2,015.83

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
2.6000	25.0000	0.0400	775.3192	41.8808	75.0846	125.0000

Activity: 4800.1 Aggregate Base (CV) Class 5 (Unreviewed) Quantity: 65.00 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.68	1.33	3.00	2.06	25.95	0.00	0.00	31.01
Total	108.89	86.33	195.22	134.18	1,686.43	0.00	0.00	2,015.83

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
5.0677	0.0080	125.0000	633.4615	0.0520	1,250.0000	0.0008	38,765.9615
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
2.6000	25.0000	0.0400	75.0846	1.6752			

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate
 Crew: BSLG (Mod) BASE CREW Prod: MU 0.04 Eff: 100.00 Crew Hrs: 0.52 Labor Pcs: 5.00 Equipment Pcs: 4.00

Notes: assumed 1.85 tns/CY

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2B2001	Graded Agg Base	1.00	120.25	TON	13.00	107.88	14.02	1,686.43
8DOZMED	Std Dozer 130-359 HP	0.50	0.26	HR	135.40	100.00	135.38	35.20
8GRDMED	Grader 130-199 HP	1.00	0.52	HR	82.20	100.00	82.19	42.74
8LDRMED	Loader 101-349 HP	0.50	0.26	HR	88.54	100.00	88.54	23.02
8ROLSTATLRG	Static Compactor 10+ Mton	1.00	0.52	HR	51.03	100.00	51.04	26.54
8TRKPU	Pick-Up Truck	1.00	0.52	HR	12.84	100.00	12.85	6.68
LABSK	LABORER, SKILLED (CONSTRUCT	1.00	0.52	MH	32.80	110.00	66.85	34.76
OPRHH2GR	GRADER OR MOTOR PATROL. GR 2	1.00	0.52	MH	39.49	110.00	77.29	40.19
OPRHH3FEL	FRONT END LOADER 5 CUBIC YAR	0.50	0.26	MH	38.94	110.00	76.50	19.89
OPRHH4BLDZ	BULLDOZER. GR 4	0.50	0.26	MH	38.64	110.00	76.08	19.78
OPRHH4BTR	BITUMINOUS ROLLERS, RUBBER T	1.00	0.52	MH	38.64	110.00	76.08	39.56
SPCOPRFM	OPERATOR FOREMENS	1.00	0.52	MH	40.64	110.00	78.92	41.04

Biditem **AGGREGATE BASE (CV) CLASS 5** **Client #: 2211.507**
4900 Takeoff Qty: 7,704.000 CY
 Bid Qty: 7,704.000 CY

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	1.68	1.33	3.00	2.06	29.94	0.00	0.00	35.00
Total	12,905.50	10,233.48	23,138.98	15,904.13	230,632.34	0.00	0.00	269,675.45

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
308.1600	25.0000	0.0400	875.1150	41.8792	75.0876	125.0000

Activity: 4900.1 Aggregate Base (CV) Class 5 (Unreviewed) Quantity: 7704.00 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	1.68	1.33	3.00	2.06	29.94	0.00	0.00	35.00
Total	12,905.50	10,233.48	23,138.98	15,904.13	230,632.34	0.00	0.00	269,675.45

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
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5.0679	0.0080	125.0000	633.4876	6.1632	1,250.0000	0.0008	43,755.7519
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
308.1600	25.0000	0.0400	75.0876	1.6752			

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate
 Crew: BSLG (Mod) BASE CREW Prod: MU 0.04 Eff: 100.00 Crew Hrs: 61.63 Labor Pcs: 5.00 Equipment Pcs: 4.00

Notes: assumed 1.85 tns/CY

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2B2001	Graded Agg Base	1.00	14,252.40	TON	15.00	107.88	16.18	230,632.34
8DOZMED	Std Dozer 130-359 HP	0.50	30.82	HR	135.40	100.00	135.40	4,173.03
8GRDMED	Grader 130-199 HP	1.00	61.63	HR	82.20	100.00	82.20	5,065.99
8LDRMED	Loader 101-349 HP	0.50	30.82	HR	88.54	100.00	88.54	2,728.80
8ROLSTATLRG	Static Compactor 10+ Mton	1.00	61.63	HR	51.03	100.00	51.03	3,144.98
8TRKPU	Pick-Up Truck	1.00	61.63	HR	12.84	100.00	12.84	791.33
LABSK	LABORER, SKILLED (CONSTRUCT	1.00	61.63	MH	32.80	110.00	66.86	4,120.50
OPRHH2GR	GRADER OR MOTOR PATROL. GR 2	1.00	61.63	MH	39.49	110.00	77.29	4,763.15
OPRHH3FEL	FRONT END LOADER 5 CUBIC YAR	0.50	30.82	MH	38.94	110.00	76.51	2,357.98
OPRHH4BLDZ	BULLDOZER. GR 4	0.50	30.82	MH	38.64	110.00	76.08	2,344.89
OPRHH4BTR	BITUMINOUS ROLLERS, RUBBER T	1.00	61.63	MH	38.64	110.00	76.08	4,689.01
SPCOPRFM	OPERATOR FOREMENS	1.00	61.63	MH	40.64	110.00	78.91	4,863.45

Biditem **CONCRETE PAVEMENT 9.0"** **Client #: 2301.504**
5500 Takeoff Qty: 48,249.000 SY
 Bid Qty: 48,249.000 SY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4.31	3.55	7.86	4.69	57.65	0.00	0.00	70.19
Total	208,017.84	171,061.77	379,079.61	226,205.78	2,781,438.21	0.00	0.00	3,386,723.60

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
5,307.3900	9.0909	0.1100	638.1147	39.1940	71.4249	100.0000

Activity: 5500.1 CONCRETE PAVEMENT 9.0" (Unreviewed) Quantity: 48249.00 Unit: SY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4.31	3.55	7.86	4.69	57.65	0.00	0.00	70.19
Total	208,017.84	171,061.77	379,079.61	226,205.78	2,781,438.21	0.00	0.00	3,386,723.60

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
9.4830	0.0100	100.0000	948.3035	48.2490	1,000.0000	0.0010	70,192.6175

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
5,307.3900	9.0909	0.1100	71.4249	4.3113

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: CP03 (Mod) CONC PVT CREW Prod: MU 0.11 Eff: 100.00 Crew Hrs: 482.49 Labor Pcs: 11.00 Equipment Pcs: 4.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2C0005	4500 PSI Concrete	1.05	12,665.10	CY	135.00	107.88	145.64	1,844,519.83
2MISCMATERIA	Misc Material (Baskets, Dowels, etc)	1.00	48,249.00	SY	18.00	107.88	19.42	936,918.38
8CONCFIN	Bridge Finish Screed/Bridge	1.00	482.49	HR	27.00	100.00	27.00	13,027.23
8LDRMED	Loader 101-349 HP	1.00	482.49	HR	88.54	100.00	88.54	42,719.66
8LDRSKD	Skid 0-100 HP	1.00	482.49	HR	34.25	100.00	34.25	16,525.28
8PAVCONC	→ Conc Paver	1.00	482.49	HR	306.20	100.00	306.20	147,738.44
8TRKPU	Pick-Up Truck	1.00	482.49	HR	12.84	100.00	12.84	6,195.17
LAB2FM	LABOR FOREPERSON CL2	1.00	482.49	MH	33.80	110.00	68.27	32,941.41
LACM	LABORER, COMMON (GENERAL LAB	2.00	964.98	MH	32.80	110.00	66.86	64,517.17
LBSK	LABORER, SKILLED (CONSTRUCT	3.00	1,447.47	MH	32.80	110.00	66.86	96,775.77
OPRHH3FEL	FRONT END LOADER 5 CUBIC YAR	1.00	482.49	MH	38.94	110.00	76.51	36,914.30
OPRHH4BTS	BITUMINOUS SPREADER AND FINI	1.00	482.49	MH	38.64	110.00	76.08	36,709.44
OPRHH4CSD	CONCRETE DISTRIBUTOR AND SPR	1.00	482.49	MH	38.64	110.00	76.08	36,709.44
SPCCARP	CARPENTERS	2.00	964.98	MH	38.96	110.00	77.22	74,512.08

Biditem **BITUMINOUS PAVEMENT SHOULDER** **Client #: 2301.504**
5600 Takeoff Qty: 10,442.000 SY
 Bid Qty: 10,442.000 SY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	2.00	1.63	3.63	3.31	12.75	0.00	0.00	19.69
Total	20,879.14	17,024.73	37,903.87	34,610.58	133,104.12	0.00	0.00	205,618.57

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
564.0100	18.5139	0.0540	364.5655	37.0191	67.2043	148.1055

Activity: 5600.1 BITUMINOUS PAVEMENTSHOULDER (Unreviewed) Quantity: 3525.19 Unit: TON

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	5.92	4.83	10.75	9.82	37.76	0.00	0.00	58.33
Total	20,879.14	17,024.73	37,903.87	34,610.58	133,104.12	0.00	0.00	205,618.57

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
20.5704	0.0200	50.0000	1,028.5183	7.0504	500.0000	0.0020	29,164.1826

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
564.0100	6.2502	0.1600	67.2043	5.9228

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate
 Crew: APLM ASPH PVT CREW (MAIN LINE) Prod: MU 0.16 Eff: 100.00 Crew Hrs:70.50 Labor Pcs:8.00 Equipment Pcs:6.00

Notes: 2.025 TNS PER CY
 1186 CYS OF BIT

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2A8500	Ty C Asphalt	1.00	3,525.19	TON	35.00	107.88	37.76	133,104.12
8PAVLRG	Asph Pavers 29k-35k LB	1.00	70.50	HR	268.75	100.00	268.75	18,946.88
8ROLSTATLRG	Static Compactor 10+ Mton	1.00	70.50	HR	51.03	100.00	51.03	3,597.62
8ROLVIBLRG	Vib Compactor 8+ Mton	1.00	70.50	HR	99.12	100.00	99.12	6,987.96
8TRKDIST	Distributor Truck	1.00	70.50	HR	23.70	100.00	23.70	1,670.85
8TRKPU	Pick-Up Truck	1.00	70.50	HR	12.84	100.00	12.84	905.22
8TRKWAT1	Water Truck 2k Gal	1.00	70.50	HR	35.49	100.00	35.49	2,502.05
LABCM	LABORER, COMMON (GENERAL LAB	3.00	211.51	MH	32.80	110.00	66.86	14,141.25
OPRHH4BTR	BITUMINOUS ROLLERS, RUBBER T	1.00	70.50	MH	38.64	110.00	76.08	5,363.87
SPCOPRFM	OPERATOR FOREMENS	1.00	70.50	MH	40.64	110.00	78.91	5,563.42
TD3BDD	BITUMINOUS DISTRIBUTOR DRIVE	1.00	70.50	MH	30.60	110.00	60.81	4,286.76
TD3ST2X	TWO AXLE UNITS	1.00	70.50	MH	30.60	110.00	60.81	4,286.76
TD4TTH	TANK TRUCK HELPER (GAS, OIL,	1.00	70.50	MH	30.35	110.00	60.45	4,261.81

Biditem **CONCRETE DRIVEWAY PAVEMENT** **Client #: 2301.504**
5700 Takeoff Qty: 163.000 SY
 Bid Qty: 163.000 SY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	8.62	7.09	15.71	6.16	57.88	0.00	0.00	79.75
Total	1,405.49	1,155.77	2,561.26	1,003.70	9,434.92	0.00	0.00	12,999.88

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
35.8600	4.5455	0.2200	362.5176	39.1938	71.4239	50.0000

Activity: 5700.1 CONCRETE PAVEMENT 9.0" (Unreviewed) Quantity: 163.00 Unit: SY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	8.62	7.09	15.71	6.16	57.88	0.00	0.00	79.75
Total	1,405.49	1,155.77	2,561.26	1,003.70	9,434.92	0.00	0.00	12,999.88

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
18.8089	0.0200	50.0000	940.4448	0.3260	500.0000	0.0020	39,876.9325

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
35.8600	4.5455	0.2200	71.4239	8.6226

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: CP03 (Mod) CONC PVT CREW Prod: MU 0.22 Eff: 100.00 Crew Hrs: 3.26 Labor Pcs: 11.00 Equipment Pcs: 4.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2C0005	4500 PSI Concrete	1.05	43.05	CY	135.00	107.88	145.64	6,269.72
2MISCMATERIA	Misc Material (Baskets, Dowels, etc)	1.00	163.00	SY	18.00	107.88	19.42	3,165.20
8CONCFIN	Bridge Finish Screed/Bridge	1.00	3.26	HR	19.15	100.00	19.15	62.43
8LDRMED	Loader 101-349 HP	1.00	3.26	HR	88.54	100.00	88.54	288.64
8LDRSKD	Skid 0-100 HP	1.00	3.26	HR	34.25	100.00	34.25	111.66
8PAVCONC	→ Conc Paver	1.00	1.63	HR	306.20	100.00	306.20	499.11
8TRKPU	Pick-Up Truck	1.00	3.26	HR	12.84	100.00	12.84	41.86
LAB2FM	LABOR FOREPERSON CL2	1.00	3.26	MH	33.80	110.00	68.27	222.57
LABCM	LABORER, COMMON (GENERAL LAB	2.00	6.52	MH	32.80	110.00	66.86	435.91
LABSK	LABORER, SKILLED (CONSTRUCT	3.00	9.78	MH	32.80	110.00	66.86	653.87
OPRHH3FEL	FRONT END LOADER 5 CUBIC YAR	1.00	3.26	MH	38.94	110.00	76.51	249.41
OPRHH4BTS	BITUMINOUS SPREADER AND FINI	1.00	3.26	MH	38.64	110.00	76.08	248.03
OPRHH4CSD	CONCRETE DISTRIBUTOR AND SPR	1.00	3.26	MH	38.64	110.00	76.08	248.03
SPCCARP	CARPENTERS	2.00	6.52	MH	38.96	110.00	77.21	503.44

Biditem

MEDIAN TRAFFIC CROSSOVERS

6000

Takeoff Qty: 3.000 EA
Bid Qty: 3.000 EA

Client #: 2360.509

Activity:	6000.1	MEDIAN TRAFFIC CROSSOVERS	Quantity: 3.00	Unit: EA
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Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4TRAFFIC	Traffic Median Crossover	1.00	3.00	EA	25,000.00	100.00	25,000.00	75,000.00

Biditem

STRUCTURE EXCAVATION CLASS U

6300

Takeoff Qty: 7,500.000 CY
Bid Qty: 7,500.000 CY

Client #: 2411.507

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.66	1.32	2.99	10.36	0.00	0.00	0.00	13.35
Total	12,483.90	9,925.20	22,409.10	77,733.92	0.00	0.00	0.00	100,143.02

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
300.0000	25.0000	0.0400	333.8101	41.6130	74.6970	100.0000

Activity: 6300.1 Struct Exc Class U (Unreviewed) Quantity: 7500.00 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	1.66	1.32	2.99	4.25	0.00	0.00	0.00	7.24
Total	12,483.90	9,925.20	22,409.10	31,908.00	0.00	0.00	0.00	54,317.10

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
7.2423	0.0100	100.0000	724.2280	7.5000	1,000.0000	0.0010	7,242.2800

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
300.0000	25.0000	0.0400	74.6970	1.6645

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: BH375 (Mod) LARGE EXCAVATOR CREW Prod: MU 0.04 Eff: 100.00 Crew Hrs: 75.00 Labor Pcs: 4.00 Equipment Pcs: 3.00

Notes: Truck/Hoe Operation. Assumed all goes to waste. 13cy/load @ 45min RT haul.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8EXCTRKLGR	Track Excavator 50-200 MTON	1.00	75.00	HR	324.06	100.00	324.06	24,304.50
8LDRMED	Loader 101-349 HP	1.00	75.00	HR	88.54	100.00	88.54	6,640.50
8TRKPU	Pick-Up Truck	1.00	75.00	HR	12.84	100.00	12.84	963.00
LABCM	LABORER, COMMON (GENERAL LAB	1.00	75.00	MH	32.80	110.00	66.86	5,014.39
OPRHH3DRLC	DRAGLINE, CRAWLER, HYDRAULIC	1.00	75.00	MH	38.94	110.00	76.51	5,738.09
OPRHH3FEL	FRONT END LOADER 5 CUBIC YAR	1.00	75.00	MH	38.94	110.00	76.51	5,738.09
SPCOPRFM	OPERATOR FOREMENS	1.00	75.00	MH	40.64	110.00	78.91	5,918.53

Activity: 6300.2 Haul To Waste (Unreviewed) Quantity: 7500.00 Unit: C Y

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Notes: 13cy/load @ 45min RT haul time

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8TRKS&E	→ Truck - Side or End Dump	1.00	491.80	HR	93.18	100.00	93.18	45,825.92

Biditem STEEL SHEET PILING (TEMPORARY)

6400

Takeoff Qty: 1.000 LS
Bid Qty: 1.000 LS

Client #: 2452.601

Activity: 6400.1 STEEL SHEET PILING (TEMPORARY) (Unreviewed) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4SHEETPILE	Sheet Pile (Allowance)	1.00	1.00	LS	250,000.00	100.00	250,000.00	250,000.00

Biditem **Client #: 2501.503**
6700 **DRAINAGE ALLOWANCE**
 Takeoff Qty: 1.000 LS
 Bid Qty: 1.000 LS

Activity: 6700.1 DRAINAGE ALLOWANCE Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4DRAINAGE	Drainage - Sub Allowance	1.00	1.00	LS	250,000.00	100.00	250,000.00	250,000.00

Biditem **Client #: 2521.518**
7700 **BITUMINOUS TRAIL**
 Takeoff Qty: 13,383.000 SF
 Bid Qty: 13,383.000 SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.34	0.28	0.62	0.25	0.86	0.00	0.00	1.73
Total	4,569.41	3,729.83	8,299.24	3,350.98	11,550.06	0.00	0.00	23,200.28

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
121.7900	109.8859	0.0091	190.4941	37.5188	68.1439	769.2308

Activity: 7700.1 3" BITUMINOUS WALK (Unreviewed) Quantity: 13383.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.34	0.28	0.62	0.25	0.86	0.00	0.00	1.73
Total	4,569.41	3,729.83	8,299.24	3,350.98	11,550.06	0.00	0.00	23,200.28

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.8705	0.0013	769.2308	669.6337	1.7398	7,692.3077	0.0001	13,335.1037

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
121.7900	109.8859	0.0091	68.1439	0.3414

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: APLM (Mod) ASPH PVT CREW (MAIN LINE) Prod: MU 0.0091 Eff: 100.00 Crew Hrs: 17.40 Labor Pcs: 7.00 Equipment Pcs: 4.00

Notes: 770 CY @ 2.025 TNS/CY = 1600 TNS

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
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2A8500	Ty C Asphalt	1.05	267.66	TON	40.00	107.88	43.15	11,550.06
8PAVMED	→ Asph Pavers 19k-29k LB	1.00	0.00	HR	187.49	100.00	0.00	0.00
8ROLSTATLRG	Static Compactor 10+ Mton	1.00	17.40	HR	51.03	100.00	51.03	887.92
8ROLVIBLRG	Vib Compactor 8+ Mton	1.00	17.40	HR	99.12	100.00	99.12	1,724.69
8TRKDIST	Distributor Truck	0.50	8.70	HR	23.70	100.00	23.70	206.19
8TRKPU	Pick-Up Truck	1.00	17.40	HR	12.84	100.00	12.84	223.42
8TRKWAT1	Water Truck 2k Gal	0.50	8.70	HR	35.49	100.00	35.49	308.76
LABCM	LABORER, COMMON (GENERAL LAB	3.00	52.19	MH	32.80	110.00	66.86	3,489.35
OPRHH4BTR	BITUMINOUS ROLLERS, RUBBER T	1.00	17.40	MH	38.64	110.00	76.08	1,323.85
SPCOPRFM	OPERATOR FOREMENS	1.00	17.40	MH	40.64	110.00	78.91	1,373.10
TD3BDD	BITUMINOUS DISTRIBUTOR DRIVE	0.50	8.70	MH	30.60	110.00	60.81	529.01
TD3ST2X	TWO AXLE UNITS	1.00	17.40	MH	30.60	110.00	60.80	1,058.00
TD4TTH	TANK TRUCK HELPER (GAS, OIL,	0.50	8.70	MH	30.35	110.00	60.45	525.93

Biditem

4" CONCRETE WALK/MEDIAN

7800

Takeoff Qty: 25,048.000 SF

Client #: 2521.518

Bid Qty: 25,048.000 SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.67	1.38	3.05	0.47	1.68	0.00	0.00	5.20
Total	41,735.51	34,606.93	76,342.44	11,673.14	42,122.39	0.00	0.00	130,137.97

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
1,097.1000	22.8311	0.0438	118.6200	38.0417	69.5857	136.9863

Activity: 7800.1 4" CONCRETE WALK (Unreviewed) Quantity: 25048.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.67	1.38	3.05	0.47	1.68	0.00	0.00	5.20
Total	41,735.51	34,606.93	76,342.44	11,673.14	42,122.39	0.00	0.00	130,137.97

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3.5139	0.0073	136.9863	481.3530	18.2850	1,369.8630	0.0007	7,117.1827

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1,097.1000	22.8311	0.0438	69.5857	1.6662

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: CPSWH SIDEWALK HAND CREW Prod: MU 0.0438 Eff: 100.00 Crew Hrs: 182.85 Labor Pcs: 6.00 Equipment Pcs: 3.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2C0002	3000 PSI Concrete	1.05	325.38	CY	120.00	107.88	129.46	42,122.39

8LDRBHSM	Backhoe 0-75 HP	1.00	182.85	HR	30.27	100.00	30.27	5,534.87
8MISCAIRSM	Air Comp 100-300 CFM	1.00	182.85	HR	20.73	100.00	20.73	3,790.48
8TRKPU	Pick-Up Truck	1.00	182.85	HR	12.84	100.00	12.84	2,347.79
LBSK	LABORER, SKILLED (CONSTRUCT	3.00	548.55	MH	32.80	110.00	66.86	36,675.26
OPRHH5FEL	FRONT END LOADER OPERATOR, U	1.00	182.85	MH	35.06	110.00	71.02	12,985.44
SPCGRDCHK	GRADE CHECKER (EXCLUDE SUPER	1.00	182.85	MH	33.40	110.00	67.01	12,252.36
SPCOPRFM	OPERATOR FOREMENS	1.00	182.85	MH	40.64	110.00	78.91	14,429.38

Biditem
7900

CONCRETE MEDIAN/MEDIAN NOSE

Takeoff Qty: 24,582.000 SF
Bid Qty: 24,582.000 SF

Client #: 2521.518

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.90	0.74	1.64	0.35	1.54	0.00	0.00	3.54
Total	22,153.46	18,233.36	40,386.82	8,633.65	37,959.52	0.00	0.00	86,979.99

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
572.7500	42.9192	0.0233	151.8638	38.6791	70.5139	300.4293

Activity: 7900.1 Concrete Median - 4" (Unreviewed) Quantity: 24582.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.90	0.74	1.64	0.35	1.54	0.00	0.00	3.54
Total	22,153.46	18,233.36	40,386.82	8,633.65	37,959.52	0.00	0.00	86,979.99

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1.9942	0.0033	300.4293	599.1045	8.1823	3,004.2934	0.0003	10,630.2747

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
572.7500	42.9192	0.0233	70.5139	0.9012

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: CPSWH (Mod) SIDEWALK HAND CREW Prod: MU 0.0233 Eff: 100.00 Crew Hrs: 81.82 Labor Pcs: 7.00 Equipment Pcs: 4.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2C0002	3000 PSI Concrete	1.05	319.88	CY	110.00	107.88	118.67	37,959.52
8CONCPAVSML	C&G/Barrier/Sidewalk Paver 13k LB	1.00	81.82	HR	41.68	100.00	41.68	3,410.26
8LDRBHSM	Backhoe 0-75 HP	1.00	81.82	HR	30.27	100.00	30.27	2,476.69
8MISCAIRSM	Air Comp 100-300 CFM	1.00	81.82	HR	20.73	100.00	20.73	1,696.13
8TRKPU	Pick-Up Truck	1.00	81.82	HR	12.84	100.00	12.84	1,050.57
LBSK	LABORER, SKILLED (CONSTRUCT	3.00	245.47	MH	32.80	110.00	66.86	16,411.77
OPRHH4CM	CURB MACHINE. GR 4	1.00	81.82	MH	38.64	110.00	76.08	6,225.15

OPRHH5FEL	FRONT END LOADER OPERATOR, U	1.00	81.82	MH	35.06	110.00	71.02	5,810.61
SPCGRDCHK	GRADE CHECKER (EXCLUDE SUPER	1.00	81.82	MH	33.40	110.00	67.01	5,482.57
SPCOPRFM	OPERATOR FOREMENS	1.00	81.82	MH	40.64	110.00	78.91	6,456.72

Biditem **CONCRETE CURB & GUTTER DESIGN B424** **Client #: 2531.503**
8000 Takeoff Qty: 3,408.000 LF
 Bid Qty: 3,408.000 LF

Activity: 8000.1 CONCRETE CURB & GUTTER DESIGN B424 (Unreviewed) Quantity: 3408.00 Unit: LF

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Notes: Quoted by North Country Concrete

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4CG	Curb & Gutter - Sub	1.00	3,408.00	LF	22.00	100.00	22.00	74,976.00

Biditem **CONCRETE CURB & GUTTER DESIGN S524** **Client #: 2531.503**
8025 Takeoff Qty: 2,750.000 LF
 Bid Qty: 2,750.000 LF

Activity: 8025.1 CONCRETE CURB & GUTTER DESIGN S524 (Unreviewed) Quantity: 2750.00 Unit: LF

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Notes: Quoted by North Country Concrete

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4CG	Curb & Gutter - Sub	1.00	2,750.00	LF	27.00	100.00	27.00	74,250.00

Biditem **CONCRETE CURB & GUTTER DESIGN R424** **Client #: 2531.503**
8050 Takeoff Qty: 875.000 LF
 Bid Qty: 875.000 LF

Activity: 8050.1 CONCRETE CURB & GUTTER DESIGN R424 (Unreviewed) Quantity: 875.00 Unit: LF

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Notes: Quoted by North Country Concrete

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4CG	Curb & Gutter - Sub	1.00	875.00	LF	29.00	100.00	29.00	25,375.00

Biditem **CONCRETE CURB & GUTTER DESIGN B618** **Client #: 2531.503**
8075 Takeoff Qty: 4,105.000 LF
 Bid Qty: 4,105.000 LF

Activity: 8075.1 CONCRETE CURB & GUTTER DESIGN B618 (Unreviewed) Quantity: 4105.00 Unit: LF

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Notes: Quoted by North Country Concrete

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4CG	Curb & Gutter - Sub	1.00	4,105.00	LF	19.00	100.00	19.00	77,995.00

Biditem **CONCRETE CURB & GUTTER DESIGN B624** **Client #: 2531.503**
8100 Takeoff Qty: 4,283.000 LF
 Bid Qty: 4,283.000 LF

Activity: 8100.1 CONCRETE CURB & GUTTER DESIGN B624 (Unreviewed) Quantity: 4283.00 Unit: LF

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Notes: Quoted by North Country Concrete

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4CG	Curb & Gutter - Sub	1.00	4,283.00	LF	26.00	100.00	26.00	111,358.00

Biditem **CONCRETE CURB & GUTTER DESIGN D424** **Client #: 2531.503**
8125 Takeoff Qty: 3,478.000 LF
 Bid Qty: 3,478.000 LF

Activity: 8125.1 CONCRETE CURB & GUTTER DESIGN D424 (Unreviewed) Quantity: 3478.00 Unit: LF

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Notes: Quoted by North Country Concrete

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4CG	Curb & Gutter - Sub	1.00	3,478.00	LF	21.00	100.00	21.00	73,038.00

Biditem **CONC MED BAR DES SINGLE SLOPE**

8200

Takeoff Qty: 284.000 LF
 Bid Qty: 284.000 LF

Client #: 2533.503

Activity: 8200.1 CONC MED BAR DES SINGLE SLOPE TYPE 54A (Unreviewed) Quantity: 284.00 Unit: LF

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4SFB	Barrier Subcontractor	1.00	284.00	LF	124.00	100.00	124.00	35,216.00

Biditem

MISC LIGHTING/ELECTRICAL ALLOWANCE

8300

Takeoff Qty: 1.000 LS
 Bid Qty: 1.000 LS

Client #: 2545.502

Activity: 8300.1 MISC LIGHTING/ELECTRICAL ALLOWANCE Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4LIGHTING	Lighting Sub Allowance	1.00	1.00	LS	100,000.00	100.00	100,000.00	100,000.00

Biditem

TRAFFIC BARRIER DESIGN TYPE 31

9600

Takeoff Qty: 803.000 LF
 Bid Qty: 803.000 LF

Client #: 2554.503

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.53	1.28	2.81	0.73	16.18	0.00	0.00	19.72
Total	1,230.43	1,024.52	2,254.95	586.83	12,994.15	0.00	0.00	15,835.93

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
32.1200	25.0000	0.0400	493.0240	38.3073	70.2039	100.0000

Activity: 9600.1 Traffic Barrier Design Type 31 (Unreviewed) Quantity: 803.00 Unit: L F

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	1.53	1.28	2.81	0.73	16.18	0.00	0.00	19.72
Total	1,230.43	1,024.52	2,254.95	586.83	12,994.15	0.00	0.00	15,835.93

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3.3317	0.0100	100.0000	333.1656	0.8030	1,000.0000	0.0010	19,720.9589

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
32.1200	25.0000	0.0400	70.2039	1.5323

Calendar:	510	5 - 10 hour shifts	Hrs/Shift: 10	WC: 0000	Company Average WC Rate		
Crew:	X5	2 Men and a Skidloader	Prod: MU 0.04	Eff: 100.00	Crew Hrs: 8.03	Labor Pcs: 4.00	Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2TYPE31	Type 31 Plate Beam	1.00	803.00	LF	15.00	107.88	16.18	12,994.15
8LDRSKD	Skid 0-100 HP	1.00	8.03	HR	34.25	100.00	34.25	275.03
8MISCAIRSML	→ Air Comp 100-300 CFM	1.00	8.03	HR	20.73	100.00	20.73	166.46
8TRKFLAT	Flatbed Truck	1.00	8.03	HR	18.10	100.00	18.10	145.34
LABCM	LABORER, COMMON (GENERAL LAB	1.00	8.03	MH	32.80	110.00	66.86	536.87
LABSK	LABORER, SKILLED (CONSTRUCT	1.00	8.03	MH	32.80	110.00	66.86	536.87
OPRHH4SKID	FRONT END, SKID STEER OVER 1	1.00	8.03	MH	38.64	110.00	76.08	610.95
OPRHH5CVY	LOADER (BARBER GREENE OR SIM	1.00	8.03	MH	35.06	110.00	71.02	570.26

Biditem **TRAFFIC CONTROL**

10300

Takeoff Qty: 1.000 LS Client #: 2563.601

Bid Qty: 1.000 LS

Activity: 10300.1 Traffic Control (Allowance) (Unreviewed) Quantity: 1.00 Unit: LS

Calendar:	510	5 - 10 hour shifts	Hrs/Shift: 10	WC: 0000	Company Average WC Rate
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Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4TRAFF	Traffic - Sub	1.00	1.00	LS	500,000.00	100.00	500,000.00	500,000.00

Biditem **SIGN PANEL (ALL TYPES) (ALLOWANCE)**

10620

Takeoff Qty: 1.000 LS Client #: 2563.602

Bid Qty: 1.000 LS

Activity: 10620.1 Sign Panel (Unreviewed) Quantity: 1.00 Unit: LS

Calendar:	510	5 - 10 hour shifts	Hrs/Shift: 10	WC: 0000	Company Average WC Rate
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Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4SIGN	Sign - Sub	1.00	1.00	LS	75,000.00	100.00	75,000.00	75,000.00

Biditem **EROSION CONTROL (ALLOWANCE)**

10800

Takeoff Qty: 1.000 LS Client #: 2573.503

Bid Qty: 1.000 LS

Activity: 10800.1 EROSION CONTROL (ALLOWANCE) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4	SUBCONTRACTORS	1.00	1.00	LS	300,000.00	100.00	300,000.00	300,000.00

Biditem LANDSCAPING/TURF ESTABLISHMENT (ALLOWANCE)

11550

Takeoff Qty: 1.000 LS
Bid Qty: 1.000 LS

Client #: 2574.505

Activity: 11550.1 LANDSCAPING/TURF ESTABLISHMENT (ALLOWANCE) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4LAND	Landscape - Sub	1.00	1.00	LS	150,000.00	100.00	150,000.00	150,000.00

Biditem STRIPING (ALLOWANCE)

12500

Takeoff Qty: 1.000 LS
Bid Qty: 1.000 LS

Client #: 2582.503

Activity: 12500.1 STRIPING (ALLOWANCE) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4STRIPE	Striping - Sub	1.00	1.00	LS	75,000.00	100.00	75,000.00	75,000.00

Biditem SIGNAL (ALLOWANCE)

12600

Takeoff Qty: 1.000 LS
Bid Qty: 1.000 LS

Client #: 2582.503

Activity: 12600.1 SIGNAL (ALLOWANCE) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4SIGNALS	Signal Allowance	1.00	1.00	LS	300,000.00	100.00	300,000.00	300,000.00

Biditem BRIDGE 50813 (OLD 6868) (I-90 WB)

15000

Takeoff Qty: 8,918.000 SF
 Bid Qty: 8,918.000 SF

Client #: 2401.618

Activity: 15000.1 BRIDGE 50813 Quantity: 8918.00 Unit: SF

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4BRIDGE	Bridge Sub	1.00	8,918.00	SF	225.00	100.00	225.00	2,006,550.00

Biditem

BRIDGE 50812 (OLD 6869 (I-90 EB))

15100

Takeoff Qty: 8,983.000 SF
 Bid Qty: 8,983.000 SF

Client #: 2401.618

Activity: 15100.1 BRIDGE 50812 Quantity: 8983.00 Unit: SF

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4BRIDGE	Bridge Sub	1.00	8,983.00	SF	225.00	100.00	225.00	2,021,175.00

Biditem

BRIDGE 50014 (OLD 9180) (4TH ST NW)

15200

Takeoff Qty: 17,671.000 SF
 Bid Qty: 17,671.000 SF

Client #: 2401.618

Activity: 15200.2 BRIDGE 50014 Quantity: 17671.00 Unit: SF

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4BRIDGE	Bridge Sub	1.00	17,671.00	SF	225.00	100.00	225.00	3,975,975.00

Biditem

BRIDGE 50013 (OLD 9183) (TH105/OAKLAND AVE)

15300

Takeoff Qty: 20,225.000 SF
 Bid Qty: 20,225.000 SF

Client #: 2401.618

Activity: 15300.2 BRIDGE 50013 (Unreviewed) Quantity: 20225.00 Unit: SF

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
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4BRIDGE	Bridge Sub	1.00	20,225.00	SF	175.00	100.00	175.00	3,539,375.00
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Biditem BRIDGE 50012 (OLD 9201) (TH218/21ST ST)

15400

Takeoff Qty: 12,651.000 SF
 Bid Qty: 12,651.000 SF

Client #: 2401.618

Activity: 15400.2	BRIDGE 50012	(Unreviewed)	Quantity: 12651.00	Unit: SF
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Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4BRIDGE	Bridge Sub	1.00	12,651.00	SF	175.00	100.00	175.00	2,213,925.00

Biditem BRIDGE 50011 (OLD 50804) (TH218)

15500

Takeoff Qty: 11,989.000 SF
 Bid Qty: 11,989.000 SF

Client #: 2401.618

Activity: 15500.2	BRIDGE 50011	(Unreviewed)	Quantity: 11989.00	Unit: SF
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Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4BRIDGE	Bridge Sub	1.00	11,989.00	SF	200.00	100.00	200.00	2,397,800.00

Biditem - Parent CIP RETAINING WALL (RW-A)

16000

Takeoff Qty: 888.000 CY
 Bid Qty: 888.000 CY

Client #: 2401.507

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	205.28	163.03	368.31	186.14	236.65	101.66	56.51	949.27
Total	182,286.47	144,769.99	327,056.46	165,295.31	210,144.58	90,277.66	50,179.50	842,953.51

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
4,371.8800	0.2031	4.9233	192.8126	41.6952	74.8091	0.0000

Biditem CIP RETAINING WALL FOOTINGS (3' THICK x 6' WIDE)

16100

Takeoff Qty: 269.000 CY
 Bid Qty: 269.000 CY

Client #: 2401.507

Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
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U. Cost	120.85	96.34	217.18	114.07	147.26	49.51	0.00	528.01
Total	32,507.58	25,914.32	58,421.90	30,683.69	39,611.92	13,318.13	0.00	142,035.64

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
788.1700	0.3413	2.9300	180.2094	41.2444	74.1235	2.0579

Activity: 16000.01 Permanent Materials (Unreviewed) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2C004	1G52 Concrete	1.05	282.45	CY	130.00	107.88	140.24	39,611.92

Activity: 16000.02 Expendable Materials - Formwork (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	6,760.32	0.00	6,760.32
Total	0.00	0.00	0.00	0.00	0.00	6,760.32	0.00	6,760.32

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3ACS027	Formwork Accessories - Walls	1.00	3,206.00	SF	0.35	107.88	0.38	1,210.52
3FA10	Form Oil	1.00	3,206.00	SF	0.03	107.88	0.03	103.76
3L105	Lumber	1.20	1,364.39	SF	1.65	107.88	1.78	2,428.64
3L110	Plywood	1.20	1,364.39	SF	2.05	107.88	2.21	3,017.40

Activity: 16000.03 Expendable Materials - Concrete (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	1,177.81	0.00	1,177.81
Total	0.00	0.00	0.00	0.00	0.00	1,177.81	0.00	1,177.81

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Notes: 200 SF/GAL

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3R10	Point & Patch S&E	1.00	3,206.00	SF	0.03	107.88	0.03	103.76
3R40	Wet Cure S&E	1.00	3,206.00	SF	0.10	107.88	0.11	345.86
3R60	Curing Compound	1.00	45.00	GAL	15.00	107.88	16.18	728.19

Activity: 16000.04 Subcontractor - Pump Concrete (Unreviewed) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
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5192	Conc. Pump Single	1.00	269.00	CY	20.00	100.00	20.00	5,380.00
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Activity: 16000.05 Fine Grade Wall Footings (Unreviewed) Quantity: 2422.51 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.76	0.62	1.38	0.92	0.00	0.00	0.00	2.29
Total	1,834.40	1,499.31	3,333.71	2,225.31	0.00	0.00	0.00	5,559.02

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.2947	0.0040	250.0010	573.6863	0.9690	2,500.0103	0.0004	5,736.8627

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
48.4500	50.0002	0.0200	68.8072	0.7572

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: BSFGM FINE GRADE CREW (MG) Prod: MU 0.02 Eff: 100.00 Crew Hrs: 9.69 Labor Pcs: 5.00 Equipment Pcs: 4.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8GRDMED	Grader 130-199 HP	1.00	9.69	HR	82.20	100.00	82.20	796.52
8ROLVIBLRG	Vib Compactor 8+ Mton	1.00	9.69	HR	99.12	100.00	99.12	960.47
8TRKPU	Pick-Up Truck	1.00	9.69	HR	12.84	100.00	12.84	124.42
8TRKWAT1	Water Truck 2k Gal	1.00	9.69	HR	35.49	100.00	35.49	343.90
LAB2FM	LABOR FOREPERSON CL2	1.00	9.69	MH	33.80	110.00	68.27	661.57
OPRHH2GR	GRADER OR MOTOR PATROL. GR 2	1.00	9.69	MH	39.49	110.00	77.29	748.91
OPRHH5SFC	SHEEP FOOT COMPACTOR WITH BL	1.00	9.69	MH	35.06	110.00	71.02	688.15
SPCGRDCHK	GRADE CHECKER (EXCLUDE SUPER	1.00	9.69	MH	33.40	110.00	67.01	649.30
TD4TTH	TANK TRUCK HELPER (GAS, OIL,	1.00	9.69	MH	30.35	110.00	60.45	585.78

Activity: 16000.06 Fabricate Wood Footing Forms (Unreviewed) Quantity: 726.15 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4.18	3.36	7.54	1.09	0.00	0.00	0.00	8.63
Total	3,032.50	2,441.46	5,473.96	795.08	0.00	0.00	0.00	6,269.04

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
8.6333	0.0235	42.5000	366.9131	1.7086	424.9996	0.0024	3,669.1307

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
72.6200	9.9993	0.1000	75.3781	4.1761

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS001 Assemble Footing Form Crew Prod: MU 0.1 Eff: 100.00 Crew Hrs: 17.09 Labor Pcs: 4.25 Equipment Pcs: 2.50

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LDRSKD	Skid 0-100 HP	0.25	4.27	HR	34.25	100.00	34.25	146.25

8MISCAIRSML	Air Comp 100-300 CFM	1.00	17.09	HR	20.73	100.00	20.73	354.28
8MISCWELD2	Weld Machine 400 Amp	0.25	4.27	HR	17.59	100.00	17.59	75.11
8TRKPU	Pick-Up Truck	1.00	17.09	HR	12.84	100.00	12.84	219.44
LABCM	LABORER, COMMON (GENERAL LAB	1.00	17.09	MH	32.80	110.00	66.86	1,142.61
OPRHH4SKID	FRONT END, SKID STEER OVER 1	0.25	4.27	MH	38.64	110.00	76.08	324.87
SPCCARP	CARPENTERS	2.00	34.17	MH	38.96	110.00	77.22	2,638.48
SPCCARPFM	CARPENTERS FOREMAN	1.00	17.09	MH	40.96	110.00	80.05	1,368.00

Activity: 16000.07 S&S Footing Forms (Unreviewed) Quantity: 2421.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	8.25	6.59	14.84	10.57	0.00	0.00	0.00	25.41
Total	19,975.80	15,956.95	35,932.75	25,580.58	0.00	0.00	0.00	61,513.33

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
25.4082	0.0250	40.0000	1,016.3293	6.0525	400.0000	0.0025	10,163.2929

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
484.2300	4.9997	0.2000	74.2060	8.2511

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS003 S&S Wall Form Crew Prod: MU 0.2 Eff: 100.00 Crew Hrs: 60.53 Labor Pcs: 8.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8CRNCRWLMED	Crawler Crane 68-150 MTON	1.00	60.53	HR	290.65	100.00	290.65	17,593.04
8LDRSKD	Skid 0-100 HP	1.00	60.53	HR	34.25	100.00	34.25	2,073.15
8LFT3	Manlift 60 FT	1.00	60.53	HR	46.55	100.00	46.55	2,817.67
8MISCAIRSML	Air Comp 100-300 CFM	1.00	60.53	HR	20.73	100.00	20.73	1,254.79
8MISCWELD2	Weld Machine 400 Amp	1.00	60.53	HR	17.59	100.00	17.59	1,064.72
8TRKPU	Pick-Up Truck	1.00	60.53	HR	12.84	100.00	12.84	777.21
LABCM	LABORER, COMMON (GENERAL LAB	1.00	60.53	MH	32.80	110.00	66.86	4,046.94
OPRHH2CR	ALL CRANES WITH OVER 135-FOO	1.00	60.53	MH	39.49	110.00	77.29	4,678.13
OPRHH4SKID	FRONT END, SKID STEER OVER 1	1.00	60.53	MH	38.64	110.00	76.08	4,605.32
SPCCARP	CARPENTERS	3.00	181.58	MH	38.96	110.00	77.22	14,020.92
SPCCARPFM	CARPENTERS FOREMAN	1.00	60.53	MH	40.96	110.00	80.05	4,845.22
TD1MW	MECHANIC . WELDER	1.00	60.53	MH	31.25	110.00	61.73	3,736.22

Activity: 16000.08 P/F/C Footing Concrete (Unreviewed) Quantity: 269.00 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	20.45	16.29	36.74	2.40	0.00	0.00	0.00	39.14
Total	5,499.78	4,383.26	9,883.04	644.88	0.00	0.00	0.00	10,527.92

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
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39.1372	0.0714	14.0056	548.1407	1.9207	140.0560	0.0071	5,481.4074
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
134.4500	2.0007	0.4998	73.5072	20.4453			

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate
 Crew: ACS004 P/F/C Wall Concrete Prod: MU 0.4998 Eff: 100.00 Crew Hrs: 19.21 Labor Pcs: 7.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8MISCAIRSML	Air Comp 100-300 CFM	1.00	19.21	HR	20.73	100.00	20.73	398.22
8TRKPU	Pick-Up Truck	1.00	19.21	HR	12.84	100.00	12.84	246.66
LABCM	LABORER, COMMON (GENERAL LAB	3.00	57.62	MH	32.80	110.00	66.86	3,852.39
SPCCARP	CARPENTERS	1.00	19.21	MH	38.96	110.00	77.22	1,483.32
SPCMASON	CEMENT MASONS	1.00	19.21	MH	39.65	110.00	77.03	1,479.79
SPCMASONFM	CEMENT MASONS FOREMAN	2.00	38.41	MH	41.65	110.00	79.86	3,067.54

Activity: 16000.09 P&P Wall Concrete (Unreviewed) Quantity: 2421.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.89	0.67	1.57	0.59	0.00	0.00	0.00	2.16
Total	2,165.10	1,633.34	3,798.44	1,437.84	0.00	0.00	0.00	5,236.28

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.1629	0.0100	100.0000	216.2858	2.4210	1,000.0000	0.0010	2,162.8583

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
48.4200	50.0000	0.0200	78.4477	0.8943

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate
 Crew: ACS05A Point and Patch Crew w/Lift Prod: MU 0.02 Eff: 100.00 Crew Hrs: 24.21 Labor Pcs: 2.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LFT3	Manlift 60 FT	1.00	24.21	HR	46.55	100.00	46.55	1,126.98
8TRKPU	Pick-Up Truck	1.00	24.21	HR	12.84	100.00	12.84	310.86
SPCMASON	CEMENT MASONS	1.00	24.21	MH	39.65	110.00	77.03	1,864.96
SPCMASONFM	CEMENT MASONS FOREMAN	1.00	24.21	MH	41.65	110.00	79.86	1,933.48

Biditem CIP RETAINING WALL STEMS (21" THICK x 15' TALL) **Client #: 2401.507**
16200 Takeoff Qty: 619.000 CY
 Bid Qty: 619.000 CY

Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
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U. Cost	240.64	190.98	431.63	208.61	152.92	124.33	16.16	933.64
Total	148,959.20	118,216.97	267,176.17	129,127.05	94,657.42	76,959.53	10,000.00	577,920.17

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
3,564.8400	0.1736	5.7590	162.1167	41.7857	74.9476	0.8689

Activity: 16100.01 Permanent Materials (Unreviewed) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2C070	3G52 Concrete	1.05	649.95	CY	135.00	107.88	145.64	94,657.42

Activity: 16100.02 Expendable Materials - Formwork (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	59,954.17	0.00	59,954.17
Total	0.00	0.00	0.00	0.00	0.00	59,954.17	0.00	59,954.17

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3ACS002	Handrail Materials	1.00	275.00	LF	7.00	107.88	7.55	2,076.69
3ACS003	OSHA Walkway Planks	2.00	549.99	LF	12.00	107.88	12.95	7,119.95
3ACS027	Formwork Accessories - Walls	1.00	18,097.00	SF	0.35	107.88	0.38	6,833.07
3FA10	Form Oil	1.00	18,097.00	SF	0.03	107.88	0.03	585.69
3L105	Lumber	1.20	10,857.60	SF	1.65	107.88	1.78	19,326.75
3L110	Plywood	1.20	10,857.60	SF	2.05	107.88	2.21	24,012.02

Activity: 16100.03 Expendable Materials - Concrete (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	4,625.36	0.00	4,625.36
Total	0.00	0.00	0.00	0.00	0.00	4,625.36	0.00	4,625.36

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Notes: 200 SF/GAL

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3R10	Point & Patch S&E	1.00	18,097.00	SF	0.03	107.88	0.03	585.69
3R40	Wet Cure S&E	1.00	2,645.97	SF	0.10	107.88	0.11	285.45
3R60	Curing Compound	1.00	232.00	GAL	15.00	107.88	16.18	3,754.22

Activity: 16100.04 Subcontractor - Pump Concrete (Unreviewed) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
5192	Conc. Pump Single	1.00	619.00	CY	20.00	100.00	20.00	12,380.00

Activity: 16100.05 Sub - Special Surface Finish (Unreviewed) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4PNT	Painting Subcontractor	1.00	1.00	LS	10,000.00	100.00	10,000.00	10,000.00

Activity: 16100.06 Fabricate Wood Wall Forms (Unreviewed) Quantity: 5972.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	5.22	4.20	9.42	1.37	0.00	0.00	0.00	10.79
Total	31,172.77	25,097.21	56,269.98	8,172.87	0.00	0.00	0.00	64,442.85

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
10.7908	0.0294	34.0000	366.8882	17.5647	339.9999	0.0029	3,668.8821

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
746.5000	8.0000	0.1250	75.3784	5.2198

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS002 Assemble Wall Form Crew Prod: MU 0.125 Eff: 100.00 Crew Hrs: 175.65 Labor Pcs: 4.25 Equipment Pcs: 2.50

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LDRSKD	Skid 0-100 HP	0.25	43.91	HR	34.25	100.00	34.25	1,503.92
8MISCAIRSML	Air Comp 100-300 CFM	1.00	175.65	HR	20.73	100.00	20.73	3,641.22
8MISCWELD2	Weld Machine 400 Amp	0.25	43.91	HR	17.59	100.00	17.59	772.38
8TRKPU	Pick-Up Truck	1.00	175.65	HR	12.84	100.00	12.84	2,255.35
LABCM	LABORER, COMMON (GENERAL LAB	1.00	175.65	MH	32.80	110.00	66.86	11,743.71
OPRHH4SKID	FRONT END, SKID STEER OVER 1	0.25	43.91	MH	38.64	110.00	76.08	3,340.82
SPCCARP	CARPENTERS	2.00	351.29	MH	38.96	110.00	77.22	27,125.27
SPCCARPFM	CARPENTERS FOREMAN	1.00	175.65	MH	40.96	110.00	80.05	14,060.18

Activity: 16100.07 S&S Wall Forms (Unreviewed) Quantity: 18097.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	4.54	3.62	8.16	5.81	0.00	0.00	0.00	13.97
Total	82,119.80	65,598.47	147,718.27	105,158.06	0.00	0.00	0.00	252,876.33

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
13.9734	0.0138	72.7273	1,016.2459	24.8834	727.2726	0.0014	10,162.4590

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1,990.6500	9.0910	0.1100	74.2060	4.5378

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS003 S&S Wall Form Crew Prod: MU 0.11 Eff: 100.00 Crew Hrs:248.83 Labor Pcs:8.00 Equipment Pcs:6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8CRNCRWLMED	Crawler Crane 68-150 MTON	1.00	248.83	HR	290.65	100.00	290.65	72,322.44
8LDRSKD	Skid 0-100 HP	1.00	248.83	HR	34.25	100.00	34.25	8,522.43
8LFT3	Manlift 60 FT	1.00	248.83	HR	46.55	100.00	46.55	11,583.04
8MISCAIRSML	Air Comp 100-300 CFM	1.00	248.83	HR	20.73	100.00	20.73	5,158.25
8MISCWELD2	Weld Machine 400 Amp	1.00	248.83	HR	17.59	100.00	17.59	4,376.92
8TRKPU	Pick-Up Truck	1.00	248.83	HR	12.84	100.00	12.84	3,194.98
LABCM	LABORER, COMMON (GENERAL LAB	1.00	248.83	MH	32.80	110.00	66.86	16,636.43
OPRHH2CR	ALL CRANES WITH OVER 135-FOO	1.00	248.83	MH	39.49	110.00	77.29	19,231.13
OPRHH4SKID	FRONT END, SKID STEER OVER 1	1.00	248.83	MH	38.64	110.00	76.08	18,931.81
SPCCARP	CARPENTERS	3.00	746.50	MH	38.96	110.00	77.22	57,641.88
SPCCARPFM	CARPENTERS FOREMAN	1.00	248.83	MH	40.96	110.00	80.05	19,917.99
TD1MW	MECHANIC . WELDER	1.00	248.83	MH	31.25	110.00	61.72	15,359.03

Activity: 16100.08 P/F/C Wall Concrete (Unreviewed) Quantity: 619.00 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	23.31	18.58	41.88	2.73	0.00	0.00	0.00	44.62
Total	14,427.90	11,498.84	25,926.74	1,691.59	0.00	0.00	0.00	27,618.33

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
44.6177	0.0814	12.2850	548.1285	5.0387	122.8501	0.0081	5,481.2847

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
352.7100	1.7550	0.5698	73.5072	23.3084

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS004 P/F/C Wall Concrete Prod: MU 0.5698 Eff: 100.00 Crew Hrs:50.39 Labor Pcs:7.00 Equipment Pcs:2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8MISCAIRSML	Air Comp 100-300 CFM	1.00	50.39	HR	20.73	100.00	20.73	1,044.58
8TRKPU	Pick-Up Truck	1.00	50.39	HR	12.84	100.00	12.84	647.01
LABCM	LABORER, COMMON (GENERAL LAB	3.00	151.16	MH	32.80	110.00	66.86	10,106.34
SPCCARP	CARPENTERS	1.00	50.39	MH	38.96	110.00	77.22	3,890.92
SPCMASON	CEMENT MASONS	1.00	50.39	MH	39.65	110.00	77.03	3,881.68
SPCMASONFM	CEMENT MASONS FOREMAN	2.00	100.77	MH	41.65	110.00	79.86	8,047.80

Activity: 16100.09 Rub Finish Walls (Unreviewed) Quantity: 9048.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
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U. Cost	0.56	0.42	0.98	0.37	0.00	0.00	0.00	1.35
Total	5,054.58	3,813.17	8,867.75	3,356.73	0.00	0.00	0.00	12,224.48

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1.3511	0.0062	160.0844	216.2852	5.6520	1,600.8436	0.0006	2,162.8515

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
113.0400	80.0425	0.0125	78.4479	0.5586

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS05A Point and Patch Crew w/Lift Prod: UM 80.0422 Eff: 100.00 Crew Hrs:56.52 Labor Pcs:2.00 Equipment Pcs:2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LFT3	Manlift 60 FT	1.00	56.52	HR	46.55	100.00	46.55	2,631.01
8TRKPU	Pick-Up Truck	1.00	56.52	HR	12.84	100.00	12.84	725.72
SPCMASON	CEMENT MASONS	1.00	56.52	MH	39.65	110.00	77.03	4,353.89
SPCMASONFM	CEMENT MASONS FOREMAN	1.00	56.52	MH	41.65	110.00	79.86	4,513.86

Activity: 16100.10 P&P Wall Concrete (Unreviewed) Quantity: 18097.00 Unit: SF

U. Cost	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
0.89	0.67	1.57	0.59	0.00	0.00	0.00	0.00	2.16
Total	16,184.15	12,209.28	28,393.43	10,747.80	0.00	0.00	0.00	39,141.23

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.1629	0.0100	100.0000	216.2857	18.0970	1,000.0000	0.0010	2,162.8574

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
361.9400	50.0000	0.0200	78.4479	0.8943

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS05A Point and Patch Crew w/Lift Prod: UM 50 Eff: 100.00 Crew Hrs:180.97 Labor Pcs:2.00 Equipment Pcs:2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LFT3	Manlift 60 FT	1.00	180.97	HR	46.55	100.00	46.55	8,424.15
8TRKPU	Pick-Up Truck	1.00	180.97	HR	12.84	100.00	12.84	2,323.65
SPCMASON	CEMENT MASONS	1.00	180.97	MH	39.65	110.00	77.03	13,940.61
SPCMASONFM	CEMENT MASONS FOREMAN	1.00	180.97	MH	41.65	110.00	79.86	14,452.82

Biditem **REINFORCING FOR WALLS (EPOXY)** **Client #: 2401.507**

16300 Takeoff Qty: 75,497.000 LB

Bid Qty: 75,497.000 LB

Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
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U. Cost	0.01	0.01	0.02	0.07	1.01	0.00	0.53	1.63
Total	819.69	638.70	1,458.39	5,484.57	75,875.24	0.00	40,179.50	122,997.70

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
18.8700	4,000.9009	0.0002	6,518.1611	43.4388	77.2862	4,001.4310

Activity: 16200.01 FURNISH MATERIALS (Unreviewed) Quantity: 75497.00 Unit: LB

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.00	0.00	0.00	0.00	1.01	0.00	0.00	1.01
Total	0.00	0.00	0.00	0.00	75,875.24	0.00	0.00	75,875.24

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2CRR62	Rebar, Epoxy Coated	1.00	75,497.00	LB	0.85	107.88	0.92	69,359.55
2CRR63	Rebar Access, Epoxy	1.00	75,497.00	LB	0.08	107.88	0.09	6,515.69

Activity: 16200.02 Assist Rebar Sub (Unreviewed) Quantity: 37.75 Unit: TON

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	21.71	16.92	38.63	145.29	0.00	0.00	0.00	183.92
Total	819.69	638.70	1,458.39	5,484.57	0.00	0.00	0.00	6,942.96

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
183.9195	0.4998	2.0008	367.9852	1.8868	20.0080	0.0500	3,679.8516

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
18.8700	2.0005	0.4999	77.2862	21.7136

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS008 Rebar Assist Crew Prod:MU 0.4998 Eff: 100.00 Crew Hrs:18.87 Labor Pcs:1.00 Equipment Pcs:1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8CRNCRWLMED	Crawler Crane 68-150 MTON	1.00	18.87	HR	290.65	100.00	290.65	5,484.57
OPRHH2CR	ALL CRANES WITH OVER 135-FOO	1.00	18.87	MH	39.49	110.00	77.29	1,458.39

Activity: 16200.03 INSTALL REBAR (Unreviewed) Quantity: 75497.00 Unit: LB

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4IW	Reinforcement Bars Subcontractor	1.00	75,497.00	LB	0.53	100.00	0.53	40,179.50

Biditem - Parent CIP RETAINING WALL (RW-B)

16500

Takeoff Qty: 739.000 CY
 Bid Qty: 739.000 CY

Client #: 2401.507

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	205.22	162.98	368.20	186.11	237.00	102.97	59.00	953.29
Total	151,656.57	120,443.89	272,100.46	137,535.74	175,141.58	76,096.75	43,603.11	704,477.64

	Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
	3,637.2600	0.2032	4.9219	193.6836	41.6953	74.8092	0.0000

Biditem

CIP RETAINING WALL FOOTINGS (3' THICK x 6' WIDE)

16600

Takeoff Qty: 224.000 CY
 Bid Qty: 224.000 CY

Client #: 2401.507

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	120.73	96.24	216.97	113.93	147.26	54.21	0.00	532.37
Total	27,043.57	21,558.49	48,602.06	25,519.47	32,985.39	12,143.04	0.00	119,249.96

	Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
	655.6900	0.3416	2.9272	181.8694	41.2444	74.1235	2.0598

Activity: 16000.01 Permanent Materials (Unreviewed) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2C004	1G52 Concrete	1.05	235.20	CY	130.00	107.88	140.24	32,985.39

Activity: 16000.02 Expendable Materials - Formwork (Unreviewed) Quantity: 1.00 Unit: LS

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	0.00	0.00	0.00	0.00	0.00	6,555.35	0.00	6,555.35
Total	0.00	0.00	0.00	0.00	0.00	6,555.35	0.00	6,555.35

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3ACS027	Formwork Accessories - Walls	1.00	2,706.00	SF	0.35	107.88	0.38	1,021.73
3FA10	Form Oil	1.00	2,706.00	SF	0.03	107.88	0.03	87.58
3L105	Lumber	1.20	1,364.39	SF	1.65	107.88	1.78	2,428.64
3L110	Plywood	1.20	1,364.39	SF	2.05	107.88	2.21	3,017.40

Activity: 16000.03 Expendable Materials - Concrete (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	1,107.69	0.00	1,107.69
Total	0.00	0.00	0.00	0.00	0.00	1,107.69	0.00	1,107.69

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Notes: 200 SF/GAL

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3R10	Point & Patch S&E	1.00	2,706.00	SF	0.03	107.88	0.03	87.58
3R40	Wet Cure S&E	1.00	2,706.00	SF	0.10	107.88	0.11	291.92
3R60	Curing Compound	1.00	45.00	GAL	15.00	107.88	16.18	728.19

Activity: 16000.04 Subcontractor - Pump Concrete (Unreviewed) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
5192	Conc. Pump Single	1.00	224.00	CY	20.00	100.00	20.00	4,480.00

Activity: 16000.05 Fine Grade Wall Footings (Unreviewed) Quantity: 2013.77 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.76	0.62	1.38	0.92	0.00	0.00	0.00	2.30
Total	1,525.83	1,247.07	2,772.90	1,850.98	0.00	0.00	0.00	4,623.88

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.2961	0.0040	249.9994	574.0314	0.8055	2,499.9938	0.0004	5,740.3136

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
40.3000	49.9695	0.0200	68.8065	0.7577

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: BSGM FINE GRADE CREW (MG) Prod: MU 0.02 Eff: 100.00 Crew Hrs: 8.06 Labor Pcs: 5.00 Equipment Pcs: 4.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8GRDMED	Grader 130-199 HP	1.00	8.06	HR	82.20	100.00	82.20	662.53
8ROLVIBLRG	Vib Compactor 8+ Mton	1.00	8.06	HR	99.12	100.00	99.12	798.91
8TRKPU	Pick-Up Truck	1.00	8.06	HR	12.84	100.00	12.84	103.49
8TRKWAT1	Water Truck 2k Gal	1.00	8.06	HR	35.49	100.00	35.49	286.05
LAB2FM	LABOR FOREPERSON CL2	1.00	8.06	MH	33.80	110.00	68.27	550.29
OPRHH2GR	GRADER OR MOTOR PATROL. GR 2	1.00	8.06	MH	39.49	110.00	77.29	622.92
OPRHH5SFC	SHEEP FOOT COMPACTOR WITH BL	1.00	8.06	MH	35.06	110.00	71.02	572.39
SPCGRDCHK	GRADE CHECKER (EXCLUDE SUPER	1.00	8.06	MH	33.40	110.00	67.01	540.07
TD4TTH	TANK TRUCK HELPER (GAS, OIL,	1.00	8.06	MH	30.35	110.00	60.45	487.23

Activity: 16000.06 Fabricate Wood Footing Forms (Unreviewed) Quantity: 604.28 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	4.18	3.36	7.54	1.09	0.00	0.00	0.00	8.63
Total	2,523.47	2,031.66	4,555.13	661.39	0.00	0.00	0.00	5,216.52

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
8.6326	0.0235	42.4999	366.8852	1.4218	424.9986	0.0024	3,668.8516

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
60.4300	9.9997	0.1000	75.3786	4.1760

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS001 Assemble Footing Form Crew Prod: MU 0.1 Eff: 100.00 Crew Hrs: 14.22 Labor Pcs: 4.25 Equipment Pcs: 2.50

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LDRSKD	Skid 0-100 HP	0.25	3.55	HR	34.25	100.00	34.25	121.59
8MISCAIRSML	Air Comp 100-300 CFM	1.00	14.22	HR	20.73	100.00	20.73	294.78
8MISCWELD2	Weld Machine 400 Amp	0.25	3.55	HR	17.59	100.00	17.59	62.44
8TRKPU	Pick-Up Truck	1.00	14.22	HR	12.84	100.00	12.84	182.58
LABCM	LABORER, COMMON (GENERAL LAB	1.00	14.22	MH	32.80	110.00	66.86	950.74
OPRHH4SKID	FRONT END, SKID STEER OVER 1	0.25	3.55	MH	38.64	110.00	76.08	270.09
SPCCARP	CARPENTERS	2.00	28.44	MH	38.96	110.00	77.22	2,196.03
SPCCARPFM	CARPENTERS FOREMAN	1.00	14.22	MH	40.96	110.00	80.05	1,138.27

Activity: 16000.07 S&S Footing Forms (Unreviewed) Quantity: 2013.77 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	8.25	6.59	14.84	10.56	0.00	0.00	0.00	25.40
Total	16,613.74	13,271.29	29,885.03	21,274.20	0.00	0.00	0.00	51,159.23

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
25.4047	0.0250	40.0000	1,016.1871	5.0344	399.9996	0.0025	10,161.8714

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
402.7300	5.0003	0.2000	74.2061	8.2501

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS003 S&S Wall Form Crew Prod: MU 0.2 Eff: 100.00 Crew Hrs: 50.34 Labor Pcs: 8.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8CRNCRWLMED	Crawler Crane 68-150 MTON	1.00	50.34	HR	290.65	100.00	290.65	14,631.32
8LDRSKD	Skid 0-100 HP	1.00	50.34	HR	34.25	100.00	34.25	1,724.15
8LFT3	Manlift 60 FT	1.00	50.34	HR	46.55	100.00	46.55	2,343.33
8MISCAIRSML	Air Comp 100-300 CFM	1.00	50.34	HR	20.73	100.00	20.73	1,043.55

8MISCWELD2	Weld Machine 400 Amp	1.00	50.34	HR	17.59	100.00	17.59	885.48
8TRKPU	Pick-Up Truck	1.00	50.34	HR	12.84	100.00	12.84	646.37
LABCM	LABORER, COMMON (GENERAL LAB	1.00	50.34	MH	32.80	110.00	66.86	3,365.66
OPRHH2CR	ALL CRANES WITH OVER 135-FOO	1.00	50.34	MH	39.49	110.00	77.29	3,890.59
OPRHH4SKID	FRONT END, SKID STEER OVER 1	1.00	50.34	MH	38.64	110.00	76.08	3,830.04
SPCCARP	CARPENTERS	3.00	151.03	MH	38.96	110.00	77.22	11,661.95
SPCCARPFM	CARPENTERS FOREMAN	1.00	50.34	MH	40.96	110.00	80.05	4,029.55
TD1MW	MECHANIC . WELDER	1.00	50.34	MH	31.25	110.00	61.73	3,107.24

Activity: 16000.08 P/F/C Footing Concrete (Unreviewed) Quantity: 224.00 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	20.44	16.29	36.74	2.40	0.00	0.00	0.00	39.13
Total	4,579.41	3,649.71	8,229.12	536.78	0.00	0.00	0.00	8,765.90

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
39.1335	0.0714	14.0056	548.0880	1.5994	140.0560	0.0071	5,480.8799

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
111.9500	2.0009	0.4998	73.5071	20.4438

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS004 P/F/C Wall Concrete Prod:MU 0.4998 Eff: 100.00 Crew Hrs:15.99 Labor Pcs:7.00 Equipment Pcs:2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8MISCAIRSML	Air Comp 100-300 CFM	1.00	15.99	HR	20.73	100.00	20.73	331.47
8TRKPU	Pick-Up Truck	1.00	15.99	HR	12.84	100.00	12.84	205.31
LABCM	LABORER, COMMON (GENERAL LAB	3.00	47.98	MH	32.80	110.00	66.86	3,207.87
SPCCARP	CARPENTERS	1.00	15.99	MH	38.96	110.00	77.22	1,234.69
SPCMASON	CEMENT MASONS	1.00	15.99	MH	39.65	110.00	77.03	1,231.75
SPCMASONFM	CEMENT MASONS FOREMAN	2.00	31.99	MH	41.65	110.00	79.86	2,554.81

Activity: 16000.09 P&P Wall Concrete (Unreviewed) Quantity: 2013.77 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	0.89	0.67	1.57	0.59	0.00	0.00	0.00	2.16
Total	1,801.12	1,358.76	3,159.88	1,196.12	0.00	0.00	0.00	4,356.00

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.1631	0.0100	100.0000	216.3107	2.0138	1,000.0000	0.0010	2,163.1070

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
40.2800	49.9943	0.0200	78.4479	0.8944

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS05A Point and Patch Crew w/Lift Prod:MU 0.02 Eff: 100.00 Crew Hrs:20.14 Labor Pcs:2.00 Equipment Pcs:2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LFT3	Manlift 60 FT	1.00	20.14	HR	46.55	100.00	46.55	937.52
8TRKPU	Pick-Up Truck	1.00	20.14	HR	12.84	100.00	12.84	258.60
SPCMASON	CEMENT MASONS	1.00	20.14	MH	39.65	110.00	77.03	1,551.44
SPCMASONFM	CEMENT MASONS FOREMAN	1.00	20.14	MH	41.65	110.00	79.86	1,608.44

Biditem **CIP RETAINING WALL STEMS (21" THICK x 7.5' TALL)** **Client #: 2401.507**
16700 Takeoff Qty: 515.000 CY
 Bid Qty: 515.000 CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	240.64	190.97	431.61	208.60	152.82	124.18	19.42	936.63
Total	123,927.53	98,351.29	222,278.82	107,429.81	78,699.86	63,953.71	10,000.00	482,362.20

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
2,965.7900	0.1736	5.7588	162.6421	41.7857	74.9476	0.8690

Activity: 16100.01 Permanent Materials (Unreviewed) Quantity: 2.35 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2C070	3G52 Concrete	1.05	540.38	CY	135.00	107.88	145.64	78,699.86

Activity: 16100.02 Expendable Materials - Formwork (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	51,426.91	0.00	51,426.91
Total	0.00	0.00	0.00	0.00	0.00	51,426.91	0.00	51,426.91

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3ACS002	Handrail Materials	1.00	275.00	LF	7.00	107.88	7.55	2,076.69
3ACS003	OSHA Walkway Planks	2.00	549.99	LF	12.00	107.88	12.95	7,119.95
3ACS027	Formwork Accessories - Walls	1.00	15,056.00	SF	0.35	107.88	0.38	5,684.84
3FA10	Form Oil	1.00	15,056.00	SF	0.03	107.88	0.03	487.27
3L105	Lumber	1.20	9,033.60	SF	1.65	107.88	1.78	16,079.99
3L110	Plywood	1.20	9,033.60	SF	2.05	107.88	2.21	19,978.17

Activity: 16100.03 Expendable Materials - Concrete (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	2,226.80	0.00	2,226.80
Total	0.00	0.00	0.00	0.00	0.00	2,226.80	0.00	2,226.80

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Notes: 200 SF/GAL

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3R10	Point & Patch S&E	1.00	7,528.00	SF	0.03	107.88	0.03	243.64
3R40	Wet Cure S&E	1.00	3,383.00	SF	0.10	107.88	0.11	364.96
3R60	Curing Compound	1.00	100.00	GAL	15.00	107.88	16.18	1,618.20

Activity: 16100.04 Subcontractor - Pump Concrete (Unreviewed) Quantity: 2.35 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
5192	Conc. Pump Single	1.00	515.00	CY	20.00	100.00	20.00	10,300.00

Activity: 16100.05 Sub - Special Surface Finish (Unreviewed) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4PNT	Painting Subcontractor	1.00	1.00	LS	10,000.00	100.00	10,000.00	10,000.00

Activity: 16100.06 Fabricate Wood Wall Forms (Unreviewed) Quantity: 4968.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	5.22	4.20	9.42	1.37	0.00	0.00	0.00	10.79
Total	25,932.50	20,878.25	46,810.75	6,798.96	0.00	0.00	0.00	53,609.71

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
10.7910	0.0294	34.0000	366.8943	14.6118	340.0001	0.0029	3,668.9427

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
621.0100	7.9999	0.1250	75.3784	5.2199

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS002 Assemble Wall Form Crew Prod: MU 0.125 Eff: 100.00 Crew Hrs: 146.12 Labor Pcs: 4.25 Equipment Pcs: 2.50

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LDRSKD	Skid 0-100 HP	0.25	36.53	HR	34.25	100.00	34.25	1,251.15
8MISCAIRSM	Air Comp 100-300 CFM	1.00	146.12	HR	20.73	100.00	20.73	3,029.07
8MISCWELD2	Weld Machine 400 Amp	0.25	36.53	HR	17.59	100.00	17.59	642.56
8TRKPU	Pick-Up Truck	1.00	146.12	HR	12.84	100.00	12.84	1,876.18

LABCM	LABORER, COMMON (GENERAL LAB	1.00	146.12	MH	32.80	110.00	66.86	9,769.37
OPRHH4SKID	FRONT END, SKID STEER OVER 1	0.25	36.53	MH	38.64	110.00	76.08	2,779.32
SPCCARP	CARPENTERS	2.00	292.24	MH	38.96	110.00	77.22	22,565.66
SPCCARPFM	CARPENTERS FOREMAN	1.00	146.12	MH	40.96	110.00	80.05	11,696.40

Activity: 16100.07 S&S Wall Forms (Unreviewed) Quantity: 15056.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4.54	3.62	8.16	5.81	0.00	0.00	0.00	13.97
Total	68,321.15	54,575.92	122,897.07	87,488.72	0.00	0.00	0.00	210,385.79

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
13.9736	0.0138	72.7273	1,016.2583	20.7020	727.2727	0.0014	10,162.5828

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1,656.1600	9.0909	0.1100	74.2060	4.5378

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS003 S&S Wall Form Crew Prod: MU 0.11 Eff: 100.00 Crew Hrs: 207.02 Labor Pcs: 8.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8CRNCRWLMED	Crawler Crane 68-150 MTON	1.00	207.02	HR	290.65	100.00	290.65	60,170.36
8LDRSKD	Skid 0-100 HP	1.00	207.02	HR	34.25	100.00	34.25	7,090.44
8LFT3	Manlift 60 FT	1.00	207.02	HR	46.55	100.00	46.55	9,636.78
8MISCAIRSML	Air Comp 100-300 CFM	1.00	207.02	HR	20.73	100.00	20.73	4,291.52
8MISCWELD2	Weld Machine 400 Amp	1.00	207.02	HR	17.59	100.00	17.59	3,641.48
8TRKPU	Pick-Up Truck	1.00	207.02	HR	12.84	100.00	12.84	2,658.14
LABCM	LABORER, COMMON (GENERAL LAB	1.00	207.02	MH	32.80	110.00	66.86	13,841.06
OPRHH2CR	ALL CRANES WITH OVER 135-FOO	1.00	207.02	MH	39.49	110.00	77.29	15,999.80
OPRHH4SKID	FRONT END, SKID STEER OVER 1	1.00	207.02	MH	38.64	110.00	76.08	15,750.77
SPCCARP	CARPENTERS	3.00	621.06	MH	38.96	110.00	77.22	47,955.89
SPCCARPFM	CARPENTERS FOREMAN	1.00	207.02	MH	40.96	110.00	80.05	16,571.24
TD1MW	MECHANIC . WELDER	1.00	207.02	MH	31.25	110.00	61.73	12,778.31

Activity: 16100.08 P/F/C Wall Concrete (Unreviewed) Quantity: 515.00 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	23.31	18.58	41.88	2.73	0.00	0.00	0.00	44.62
Total	12,003.41	9,566.55	21,569.96	1,407.25	0.00	0.00	0.00	22,977.21

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
44.6159	0.0814	12.2850	548.1074	4.1921	122.8501	0.0081	5,481.0739

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
293.4400	1.7550	0.5698	73.5072	23.3076

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS004 P/F/C Wall Concrete Prod: MU 0.5698 Eff: 100.00 Crew Hrs: 41.92 Labor Pcs: 7.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8MISCAIRSM	Air Comp 100-300 CFM	1.00	41.92	HR	20.73	100.00	20.73	869.00
8TRKPU	Pick-Up Truck	1.00	41.92	HR	12.84	100.00	12.84	538.25
LABCM	LABORER, COMMON (GENERAL LAB	3.00	125.76	MH	32.80	110.00	66.86	8,408.13
SPCCARP	CARPENTERS	1.00	41.92	MH	38.96	110.00	77.22	3,236.90
SPCMASON	CEMENT MASONS	1.00	41.92	MH	39.65	110.00	77.03	3,229.21
SPCMASONFM	CEMENT MASONS FOREMAN	2.00	83.84	MH	41.65	110.00	79.86	6,695.72

Activity: 16100.09 Rub Finish Walls (Unreviewed) Quantity: 7528.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	0.56	0.42	0.98	0.37	0.00	0.00	0.00	1.35
Total	4,205.89	3,172.92	7,378.81	2,793.12	0.00	0.00	0.00	10,171.93

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1.3512	0.0062	160.0837	216.3071	4.7025	1,600.8370	0.0006	2,163.0714

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
94.0600	80.0340	0.0125	78.4479	0.5587

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS05A Point and Patch Crew w/Lift Prod: UM 80.0418 Eff: 100.00 Crew Hrs: 47.03 Labor Pcs: 2.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LFT3	Manlift 60 FT	1.00	47.03	HR	46.55	100.00	46.55	2,189.25
8TRKPU	Pick-Up Truck	1.00	47.03	HR	12.84	100.00	12.84	603.87
SPCMASON	CEMENT MASONS	1.00	47.03	MH	39.65	110.00	77.03	3,622.85
SPCMASONFM	CEMENT MASONS FOREMAN	1.00	47.03	MH	41.65	110.00	79.86	3,755.96

Activity: 16100.10 P&P Wall Concrete (Unreviewed) Quantity: 15056.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	0.89	0.67	1.57	0.59	0.00	0.00	0.00	2.16
Total	13,464.58	10,157.65	23,622.23	8,941.76	0.00	0.00	0.00	32,563.99

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.1629	0.0100	100.0000	216.2858	15.0560	1,000.0000	0.0010	2,162.8580

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
301.1200	50.0000	0.0200	78.4479	0.8943

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS05A Point and Patch Crew w/Lift Prod:UM 50 Eff: 100.00 Crew Hrs:150.56 Labor Pcs:2.00 Equipment Pcs:2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LFT3	Manlift 60 FT	1.00	150.56	HR	46.55	100.00	46.55	7,008.57
8TRKPU	Pick-Up Truck	1.00	150.56	HR	12.84	100.00	12.84	1,933.19
SPCMASON	CEMENT MASONS	1.00	150.56	MH	39.65	110.00	77.03	11,598.04
SPCMASONFM	CEMENT MASONS FOREMAN	1.00	150.56	MH	41.65	110.00	79.86	12,024.19

Biditem **REINFORCING FOR WALLS (EPOXY)** **Client #: 2401.507**
16800 Takeoff Qty: 63,140.000 LB
 Bid Qty: 63,140.000 LB

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.01	0.01	0.02	0.07	1.01	0.00	0.53	1.63
Total	685.47	534.11	1,219.58	4,586.46	63,456.33	0.00	33,603.11	102,865.48

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
15.7800	4,001.2674	0.0002	6,518.7250	43.4392	77.2864	4,001.5971

Activity: 16200.01 FURNISH MATERIALS (Unreviewed) Quantity: 63140.00 Unit: LB

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.00	0.00	0.00	0.00	1.01	0.00	0.00	1.01
Total	0.00	0.00	0.00	0.00	63,456.33	0.00	0.00	63,456.33

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2CRR62	Rebar, Epoxy Coated	1.00	63,140.00	LB	0.85	107.88	0.92	58,007.10
2CRR63	Rebar Access, Epoxy	1.00	63,140.00	LB	0.08	107.88	0.09	5,449.23

Activity: 16200.02 Assist Rebar Sub (Unreviewed) Quantity: 31.57 Unit: TON

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	21.71	16.92	38.63	145.28	0.00	0.00	0.00	183.91
Total	685.47	534.11	1,219.58	4,586.46	0.00	0.00	0.00	5,806.04

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
183.9100	0.4998	2.0008	367.9669	1.5779	20.0080	0.0500	3,679.6694

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
15.7800	2.0006	0.4998	77.2864	21.7127

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS008 Rebar Assist Crew Prod:MU 0.4998 Eff: 100.00 Crew Hrs:15.78 Labor Pcs:1.00 Equipment Pcs:1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8CRNCRWLMED	Crawler Crane 68-150 MTON	1.00	15.78	HR	290.65	100.00	290.65	4,586.46
OPRH2CR	ALL CRANES WITH OVER 135-FOO	1.00	15.78	MH	39.49	110.00	77.29	1,219.58

Activity: 16200.03 INSTALL REBAR (Unreviewed) Quantity: 63140.00 Unit: LB

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4IW	Reinforcement Bars Subcontractor	1.00	63,140.00	LB	0.53	100.00	0.53	33,603.11

Biditem - Parent

CIP RETAINING WALL (RW-C)

17000

Takeoff Qty: 594.000 CY
Bid Qty: 594.000 CY

Client #: 2401.507

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	218.61	173.60	392.21	198.29	234.92	116.15	56.77	998.35
Total	129,853.45	103,117.26	232,970.71	117,786.40	139,545.37	68,992.48	33,723.62	593,018.58

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
3,113.2100	0.1908	5.2411	190.4846	41.7105	74.8330	0.0000

Biditem

CIP RETAINING WALL FOOTINGS (3' THICK x 6' WIDE)

17100

Takeoff Qty: 170.000 CY
Bid Qty: 170.000 CY

Client #: 2401.507

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	120.82	96.31	217.13	114.03	147.26	66.19	0.00	544.60
Total	20,538.57	16,372.89	36,911.46	19,384.79	25,033.55	11,252.30	0.00	92,582.10

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
497.9700	0.3414	2.9292	185.9190	41.2446	74.1239	2.0585

Activity: 16000.01 Permanent Materials (Unreviewed) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2C004	1G52 Concrete	1.05	178.50	CY	130.00	107.88	140.24	25,033.55

Activity: 16000.02 Expendable Materials - Formwork (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	6,696.37	0.00	6,696.37
Total	0.00	0.00	0.00	0.00	0.00	6,696.37	0.00	6,696.37

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3ACS027	Formwork Accessories - Walls	1.00	3,050.00	SF	0.35	107.88	0.38	1,151.62
3FA10	Form Oil	1.00	3,050.00	SF	0.03	107.88	0.03	98.71
3L105	Lumber	1.20	1,364.39	SF	1.65	107.88	1.78	2,428.64
3L110	Plywood	1.20	1,364.39	SF	2.05	107.88	2.21	3,017.40

Activity: 16000.03 Expendable Materials - Concrete (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	1,155.93	0.00	1,155.93
Total	0.00	0.00	0.00	0.00	0.00	1,155.93	0.00	1,155.93

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Notes: 200 SF/GAL

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3R10	Point & Patch S&E	1.00	3,050.00	SF	0.03	107.88	0.03	98.71
3R40	Wet Cure S&E	1.00	3,050.00	SF	0.10	107.88	0.11	329.03
3R60	Curing Compound	1.00	45.00	GAL	15.00	107.88	16.18	728.19

Activity: 16000.04 Subcontractor - Pump Concrete (Unreviewed) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
5192	Conc. Pump Single	1.00	170.00	CY	20.00	100.00	20.00	3,400.00

Activity: 16000.05 Fine Grade Wall Footings (Unreviewed) Quantity: 1529.50 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.76	0.62	1.38	0.92	0.00	0.00	0.00	2.30
Total	1,158.58	946.93	2,105.51	1,405.45	0.00	0.00	0.00	3,510.96

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.2955	0.0040	250.0000	573.8738	0.6118	2,500.0000	0.0004	5,738.7381

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
30.6000	49.9837	0.0200	68.8075	0.7575

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: BSFGM FINE GRADE CREW (MG) Prod:MU 0.02 Eff: 100.00 Crew Hrs:6.12 Labor Pcs:5.00 Equipment Pcs:4.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8GRDMED	Grader 130-199 HP	1.00	6.12	HR	82.20	100.00	82.20	503.06
8ROLVIBLRG	Vib Compactor 8+ Mton	1.00	6.12	HR	99.12	100.00	99.12	606.61
8TRKPU	Pick-Up Truck	1.00	6.12	HR	12.84	100.00	12.84	78.58
8TRKWAT1	Water Truck 2k Gal	1.00	6.12	HR	35.49	100.00	35.49	217.20
LAB2FM	LABOR FOREPERSON CL2	1.00	6.12	MH	33.80	110.00	68.27	417.83
OPRHH2GR	GRADER OR MOTOR PATROL. GR 2	1.00	6.12	MH	39.49	110.00	77.29	472.99
OPRHH5SFC	SHEEP FOOT COMPACTOR WITH BL	1.00	6.12	MH	35.06	110.00	71.02	434.63
SPCGRDCHK	GRADE CHECKER (EXCLUDE SUPER	1.00	6.12	MH	33.40	110.00	67.01	410.09
TD4TTH	TANK TRUCK HELPER (GAS, OIL,	1.00	6.12	MH	30.35	110.00	60.45	369.97

Activity: 16000.06 Fabricate Wood Footing Forms (Unreviewed) Quantity: 458.85 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4.18	3.36	7.54	1.10	0.00	0.00	0.00	8.63
Total	1,916.28	1,542.81	3,459.09	502.52	0.00	0.00	0.00	3,961.61

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
8.6338	0.0235	42.4999	366.9347	1.0797	424.9988	0.0024	3,669.3465

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
45.8900	9.9989	0.1000	75.3779	4.1763

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS001 Assemble Footing Form Crew Prod:MU 0.1 Eff: 100.00 Crew Hrs:10.80 Labor Pcs:4.25 Equipment Pcs:2.50

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LDRSKD	Skid 0-100 HP	0.25	2.70	HR	34.25	100.00	34.25	92.48
8MISCAIRSML	Air Comp 100-300 CFM	1.00	10.80	HR	20.73	100.00	20.73	223.88
8MISCWELD2	Weld Machine 400 Amp	0.25	2.70	HR	17.59	100.00	17.59	47.49
8TRKPU	Pick-Up Truck	1.00	10.80	HR	12.84	100.00	12.84	138.67
LABCM	LABORER, COMMON (GENERAL LAB	1.00	10.80	MH	32.80	110.00	66.86	722.07
OPRHH4SKID	FRONT END, SKID STEER OVER 1	0.25	2.70	MH	38.64	110.00	76.09	205.43
SPCCARP	CARPENTERS	2.00	21.59	MH	38.96	110.00	77.22	1,667.10
SPCCARPFM	CARPENTERS FOREMAN	1.00	10.80	MH	40.96	110.00	80.05	864.49

Activity: 16000.07 S&S Footing Forms (Unreviewed) Quantity: 1529.50 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	8.25	6.59	14.84	10.57	0.00	0.00	0.00	25.41
Total	12,619.61	10,080.75	22,700.36	16,160.61	0.00	0.00	0.00	38,860.97

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
25.4076	0.0250	40.0000	1,016.3052	3.8238	400.0000	0.0025	10,163.0520
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
305.9100	4.9998	0.2000	74.2060	8.2508			

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS003 S&S Wall Form Crew Prod: MU 0.2 Eff: 100.00 Crew Hrs: 38.24 Labor Pcs: 8.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8CRNCRWLMD	Crawler Crane 68-150 MTON	1.00	38.24	HR	290.65	100.00	290.65	11,114.46
8LDRSKD	Skid 0-100 HP	1.00	38.24	HR	34.25	100.00	34.25	1,309.72
8LFT3	Manlift 60 FT	1.00	38.24	HR	46.55	100.00	46.55	1,780.07
8MISCAIRSML	Air Comp 100-300 CFM	1.00	38.24	HR	20.73	100.00	20.73	792.72
8MISCWELD2	Weld Machine 400 Amp	1.00	38.24	HR	17.59	100.00	17.59	672.64
8TRKPU	Pick-Up Truck	1.00	38.24	HR	12.84	100.00	12.84	491.00
LABCM	LABORER, COMMON (GENERAL LAB	1.00	38.24	MH	32.80	110.00	66.86	2,556.68
OPRHH2CR	ALL CRANES WITH OVER 135-FOO	1.00	38.24	MH	39.49	110.00	77.29	2,955.43
OPRHH4SKID	FRONT END, SKID STEER OVER 1	1.00	38.24	MH	38.64	110.00	76.08	2,909.42
SPCCARP	CARPENTERS	3.00	114.71	MH	38.96	110.00	77.22	8,857.47
SPCCARPFM	CARPENTERS FOREMAN	1.00	38.24	MH	40.96	110.00	80.05	3,060.99
TD1MW	MECHANIC . WELDER	1.00	38.24	MH	31.25	110.00	61.73	2,360.37

Activity: 16000.08 P/F/C Footing Concrete (Unreviewed) Quantity: 170.00 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	20.45	16.30	36.74	2.40	0.00	0.00	0.00	39.14
Total	3,475.82	2,770.17	6,245.99	407.54	0.00	0.00	0.00	6,653.53

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
39.1384	0.0714	14.0056	548.1570	1.2138	140.0560	0.0071	5,481.5703
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
84.9700	2.0007	0.4998	73.5082	20.4460			

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS004 P/F/C Wall Concrete Prod: MU 0.4998 Eff: 100.00 Crew Hrs: 12.14 Labor Pcs: 7.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8MISCAIRSML	Air Comp 100-300 CFM	1.00	12.14	HR	20.73	100.00	20.73	251.66
8TRKPU	Pick-Up Truck	1.00	12.14	HR	12.84	100.00	12.84	155.88
LABCM	LABORER, COMMON (GENERAL LAB	3.00	36.41	MH	32.80	110.00	66.86	2,434.32
SPCCARP	CARPENTERS	1.00	12.14	MH	38.96	110.00	77.22	937.40

SPCMASON	CEMENT MASONS	1.00	12.14	MH	39.65	110.00	77.03	935.19
SPCMASONFM	CEMENT MASONS FOREMAN	2.00	24.28	MH	41.65	110.00	79.86	1,939.08

Activity: 16000.09 P&P Wall Concrete (Unreviewed) Quantity: 1529.50 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.89	0.67	1.57	0.59	0.00	0.00	0.00	2.16
Total	1,368.28	1,032.23	2,400.51	908.67	0.00	0.00	0.00	3,309.18

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.1636	0.0100	100.0000	216.3570	1.5295	1,000.0000	0.0010	2,163.5698

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
30.6000	49.9837	0.0200	78.4480	0.8946

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS05A Point and Patch Crew w/Lift Prod:MU 0.02 Eff: 100.00 Crew Hrs:15.30 Labor Pcs:2.00 Equipment Pcs:2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LFT3	Manlift 60 FT	1.00	15.30	HR	46.55	100.00	46.55	712.22
8TRKPU	Pick-Up Truck	1.00	15.30	HR	12.84	100.00	12.84	196.45
SPCMASON	CEMENT MASONS	1.00	15.30	MH	39.65	110.00	77.03	1,178.60
SPCMASONFM	CEMENT MASONS FOREMAN	1.00	15.30	MH	41.65	110.00	79.86	1,221.91

Biditem CIP RETAINING WALL STEMS (21" THICK x 15' TALL)

17200

Takeoff Qty: 425.000 CY
Bid Qty: 425.000 CY

Client #: 2401.507

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	255.95	203.12	459.08	223.11	152.92	135.86	17.65	988.61
Total	108,779.71	86,327.37	195,107.08	94,820.80	64,990.96	57,740.18	7,500.00	420,159.02

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
2,602.9200	0.1633	6.1245	161.4183	41.7914	74.9570	0.8156

Activity: 16100.01 Permanent Materials (Unreviewed) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2C070	3G52 Concrete	1.05	446.25	CY	135.00	107.88	145.64	64,990.96

Activity: 16100.02 Expendable Materials - Formwork (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	46,501.54	0.00	46,501.54
Total	0.00	0.00	0.00	0.00	0.00	46,501.54	0.00	46,501.54

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3ACS002	Handrail Materials	1.00	275.00	LF	7.00	107.88	7.55	2,076.69
3ACS003	OSHA Walkway Planks	2.00	549.99	LF	12.00	107.88	12.95	7,119.95
3ACS027	Formwork Accessories - Walls	1.00	13,300.00	SF	0.35	107.88	0.38	5,021.81
3FA10	Form Oil	1.00	13,300.00	SF	0.03	107.88	0.03	430.44
3L105	Lumber	1.20	7,980.00	SF	1.65	107.88	1.78	14,204.56
3L110	Plywood	1.20	7,980.00	SF	2.05	107.88	2.21	17,648.09

Activity: 16100.03 Expendable Materials - Concrete (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	2,738.64	0.00	2,738.64
Total	0.00	0.00	0.00	0.00	0.00	2,738.64	0.00	2,738.64

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Notes: 200 SF/GAL

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3R10	Point & Patch S&E	1.00	13,300.00	SF	0.03	107.88	0.03	430.44
3R40	Wet Cure S&E	1.00	2,645.97	SF	0.10	107.88	0.11	285.45
3R60	Curing Compound	1.00	125.00	GAL	15.00	107.88	16.18	2,022.75

Activity: 16100.04 Subcontractor - Pump Concrete (Unreviewed) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
5192	Conc. Pump Single	1.00	425.00	CY	20.00	100.00	20.00	8,500.00

Activity: 16100.05 Sub - Special Surface Finish (Unreviewed) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4PNT	Painting Subcontractor	1.00	1.00	LS	7,500.00	100.00	7,500.00	7,500.00

Activity: 16100.06 Fabricate Wood Wall Forms (Unreviewed) Quantity: 4389.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
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U. Cost	5.22	4.20	9.42	1.37	0.00	0.00	0.00	10.79
Total	22,910.01	18,444.86	41,354.87	6,006.44	0.00	0.00	0.00	47,361.31

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
10.7909	0.0294	34.0000	366.8911	12.9088	340.0001	0.0029	3,668.9109

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
548.6300	7.9999	0.1250	75.3784	5.2199

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS002 Assemble Wall Form Crew Prod:MU 0.125 Eff: 100.00 Crew Hrs:129.09 Labor Pcs:4.25 Equipment Pcs:2.50

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LDRSKD	Skid 0-100 HP	0.25	32.27	HR	34.25	100.00	34.25	1,105.25
8MISCAIRSM	Air Comp 100-300 CFM	1.00	129.09	HR	20.73	100.00	20.73	2,676.04
8MISCWELD2	Weld Machine 400 Amp	0.25	32.27	HR	17.59	100.00	17.59	567.63
8TRKPU	Pick-Up Truck	1.00	129.09	HR	12.84	100.00	12.84	1,657.52
LABCM	LABORER, COMMON (GENERAL LAB	1.00	129.09	MH	32.80	110.00	66.86	8,630.78
OPRHH4SKID	FRONT END, SKID STEER OVER 1	0.25	32.27	MH	38.64	110.00	76.08	2,455.20
SPCCARP	CARPENTERS	2.00	258.18	MH	38.96	110.00	77.22	19,935.67
SPCCARPFM	CARPENTERS FOREMAN	1.00	129.09	MH	40.96	110.00	80.05	10,333.22

Activity: 16100.07 S&S Wall Forms (Unreviewed) Quantity: 13300.00 Unit: SF

U. Cost	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
4.54	3.62	8.16	5.81	0.00	0.00	0.00	13.97	
60,353.99	48,211.63	108,565.62	77,286.91	0.00	0.00	0.00	185,852.53	

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
13.9739	0.0138	72.7273	1,016.2818	18.2875	727.2727	0.0014	10,162.8178

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1,463.0300	9.0907	0.1100	74.2060	4.5379

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS003 S&S Wall Form Crew Prod:MU 0.11 Eff: 100.00 Crew Hrs:182.88 Labor Pcs:8.00 Equipment Pcs:6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8CRNCRWLMED	Crawler Crane 68-150 MTON	1.00	182.88	HR	290.65	100.00	290.65	53,154.07
8LDRSKD	Skid 0-100 HP	1.00	182.88	HR	34.25	100.00	34.25	6,263.64
8LFT3	Manlift 60 FT	1.00	182.88	HR	46.55	100.00	46.55	8,513.06
8MISCAIRSM	Air Comp 100-300 CFM	1.00	182.88	HR	20.73	100.00	20.73	3,791.10
8MISCWELD2	Weld Machine 400 Amp	1.00	182.88	HR	17.59	100.00	17.59	3,216.86
8TRKPU	Pick-Up Truck	1.00	182.88	HR	12.84	100.00	12.84	2,348.18

LABCM	LABORER, COMMON (GENERAL LAB	1.00	182.88	MH	32.80	110.00	66.86	12,227.09
OPRHH2CR	ALL CRANES WITH OVER 135-FOO	1.00	182.88	MH	39.49	110.00	77.29	14,134.10
OPRHH4SKID	FRONT END, SKID STEER OVER 1	1.00	182.88	MH	38.64	110.00	76.08	13,914.12
SPCCARP	CARPENTERS	3.00	548.63	MH	38.96	110.00	77.22	42,363.12
SPCCARPFM	CARPENTERS FOREMAN	1.00	182.88	MH	40.96	110.00	80.05	14,638.92
TD1MW	MECHANIC . WELDER	1.00	182.88	MH	31.25	110.00	61.73	11,288.27

Activity: 16100.08 P/F/C Wall Concrete (Unreviewed) Quantity: 425.00 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	23.31	18.58	41.89	2.73	0.00	0.00	0.00	44.62
Total	9,906.58	7,895.40	17,801.98	1,161.52	0.00	0.00	0.00	18,963.50

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
44.6200	0.0814	12.2850	548.1572	3.4595	122.8501	0.0081	5,481.5725

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
242.1800	1.7549	0.5698	73.5072	23.3096

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS004 P/F/C Wall Concrete Prod: MU 0.5698 Eff: 100.00 Crew Hrs: 34.60 Labor Pcs: 7.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8MISCAIRSML	Air Comp 100-300 CFM	1.00	34.60	HR	20.73	100.00	20.73	717.26
8TRKPU	Pick-Up Truck	1.00	34.60	HR	12.84	100.00	12.84	444.26
LABCM	LABORER, COMMON (GENERAL LAB	3.00	103.79	MH	32.80	110.00	66.86	6,939.25
SPCCARP	CARPENTERS	1.00	34.60	MH	38.96	110.00	77.22	2,671.68
SPCMASON	CEMENT MASONS	1.00	34.60	MH	39.65	110.00	77.03	2,665.33
SPCMASONFM	CEMENT MASONS FOREMAN	2.00	69.19	MH	41.65	110.00	79.86	5,525.72

Activity: 16100.09 Rub Finish Walls (Unreviewed) Quantity: 6650.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.56	0.42	0.98	0.37	0.00	0.00	0.00	1.35
Total	3,714.93	2,802.53	6,517.46	2,467.06	0.00	0.00	0.00	8,984.52

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1.3511	0.0062	160.0844	216.2829	4.1541	1,600.8435	0.0006	2,162.8287

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
83.0800	80.0433	0.0125	78.4480	0.5586

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS05A Point and Patch Crew w/Lift Prod: UM 80.0422 Eff: 100.00 Crew Hrs: 41.54 Labor Pcs: 2.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LFT3	Manlift 60 FT	1.00	41.54	HR	46.55	100.00	46.55	1,933.69
8TRKPU	Pick-Up Truck	1.00	41.54	HR	12.84	100.00	12.84	533.37
SPCMASON	CEMENT MASONS	1.00	41.54	MH	39.65	110.00	77.03	3,199.94
SPCMASONFM	CEMENT MASONS FOREMAN	1.00	41.54	MH	41.65	110.00	79.86	3,317.52

Activity: 16100.10 P&P Wall Concrete (Unreviewed) Quantity: 13300.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.89	0.67	1.57	0.59	0.00	0.00	0.00	2.16
Total	11,894.20	8,972.95	20,867.15	7,898.87	0.00	0.00	0.00	28,766.02

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.1629	0.0100	100.0000	216.2859	13.3000	1,000.0000	0.0010	2,162.8586

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
266.0000	50.0000	0.0200	78.4479	0.8943

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS05A Point and Patch Crew w/Lift Prod: UM 50 Eff: 100.00 Crew Hrs: 133.00 Labor Pcs: 2.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LFT3	Manlift 60 FT	1.00	133.00	HR	46.55	100.00	46.55	6,191.15
8TRKPU	Pick-Up Truck	1.00	133.00	HR	12.84	100.00	12.84	1,707.72
SPCMASON	CEMENT MASONS	1.00	133.00	MH	39.65	110.00	77.03	10,245.35
SPCMASONFM	CEMENT MASONS FOREMAN	1.00	133.00	MH	41.65	110.00	79.86	10,621.80

Biditem **REINFORCING FOR WALLS (EPOXY)** **Client #: 2401.507**
17300 Takeoff Qty: 49,274.000 LB
 Bid Qty: 49,274.000 LB

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.01	0.01	0.02	0.07	1.01	0.00	0.53	1.63
Total	535.17	417.00	952.17	3,580.81	49,520.86	0.00	26,223.62	80,277.46

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
12.3200	3,999.5130	0.0003	6,516.0276	43.4391	77.2865	4,001.1043

Activity: 16200.01 FURNISH MATERIALS (Unreviewed) Quantity: 49274.00 Unit: LB

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.00	0.00	0.00	0.00	1.01	0.00	0.00	1.01
Total	0.00	0.00	0.00	0.00	49,520.86	0.00	0.00	49,520.86

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2CRR62	Rebar, Epoxy Coated	1.00	49,274.00	LB	0.85	107.88	0.92	45,268.32
2CRR63	Rebar Access, Epoxy	1.00	49,274.00	LB	0.08	107.88	0.09	4,252.54

Activity: 16200.02 Assist Rebar Sub (Unreviewed) Quantity: 24.64 Unit: TON

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	21.72	16.92	38.64	145.33	0.00	0.00	0.00	183.97
Total	535.17	417.00	952.17	3,580.81	0.00	0.00	0.00	4,532.98

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
183.9683	0.4998	2.0008	368.0831	1.2315	20.0080	0.0500	3,680.8308

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
12.3200	2.0000	0.5000	77.2865	21.7196

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS008 Rebar Assist Crew Prod: MU 0.4998 Eff: 100.00 Crew Hrs: 12.32 Labor Pcs: 1.00 Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8CRNCRWLMED	Crawler Crane 68-150 MTON	1.00	12.32	HR	290.65	100.00	290.65	3,580.81
OPRHH2CR	ALL CRANES WITH OVER 135-FOO	1.00	12.32	MH	39.49	110.00	77.29	952.17

Activity: 16200.03 INSTALL REBAR (Unreviewed) Quantity: 49274.00 Unit: LB

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4IW	Reinforcement Bars Subcontractor	1.00	49,274.00	LB	0.53	100.00	0.53	26,223.62

Biditem - Parent

17500

CIP RETAINING WALL (RW-D)

Takeoff Qty: 631.000 CY
 Bid Qty: 631.000 CY

Client #: 2401.507

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	213.60	169.62	383.22	193.40	233.14	116.58	59.18	985.52
Total	134,779.54	107,030.64	241,810.18	122,038.47	147,113.69	73,562.46	37,340.18	621,864.98

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
3,231.5300	0.1953	5.1213	192.4367	41.7077	74.8284	0.0000

Biditem CIP RETAINING WALL FOOTINGS (3' THICK x 6' WIDE)

17600

Takeoff Qty: 178.000 CY
 Bid Qty: 178.000 CY

Client #: 2401.507

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	120.75	96.26	217.01	113.96	147.26	80.94	0.00	559.17
Total	21,493.81	17,134.34	38,628.15	20,285.33	26,211.60	14,407.09	0.00	99,532.17

	Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
	521.1300	0.3416	2.9277	190.9930	41.2446	74.1238	2.0596

Activity: 16000.01 Permanent Materials (Unreviewed) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2C004	1G52 Concrete	1.05	186.90	CY	130.00	107.88	140.24	26,211.60

Activity: 16000.02 Expendable Materials - Formwork (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	9,637.16	0.00	9,637.16
Total	0.00	0.00	0.00	0.00	0.00	9,637.16	0.00	9,637.16

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3ACS027	Formwork Accessories - Walls	1.00	3,435.00	SF	0.35	107.88	0.38	1,296.99
3FA10	Form Oil	1.00	3,435.00	SF	0.03	107.88	0.03	111.17
3L105	Lumber	1.20	2,061.60	SF	1.65	107.88	1.78	3,669.69
3L110	Plywood	1.20	2,061.60	SF	2.05	107.88	2.21	4,559.31

Activity: 16000.03 Expendable Materials - Concrete (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	1,209.93	0.00	1,209.93
Total	0.00	0.00	0.00	0.00	0.00	1,209.93	0.00	1,209.93

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Notes: 200 SF/GAL

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3R10	Point & Patch S&E	1.00	3,435.00	SF	0.03	107.88	0.03	111.17
3R40	Wet Cure S&E	1.00	3,435.00	SF	0.10	107.88	0.11	370.57
3R60	Curing Compound	1.00	45.00	GAL	15.00	107.88	16.18	728.19

Activity: 16000.04 Subcontractor - Pump Concrete (Unreviewed) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
5192	Conc. Pump Single	1.00	178.00	CY	20.00	100.00	20.00	3,560.00

Activity: 16000.05 Fine Grade Wall Footings (Unreviewed) Quantity: 1600.60 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.76	0.62	1.38	0.92	0.00	0.00	0.00	2.29
Total	1,211.58	990.25	2,201.83	1,469.77	0.00	0.00	0.00	3,671.60

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.2939	0.0040	250.0000	573.4724	0.6402	2,500.0000	0.0004	5,734.7245

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
32.0000	50.0188	0.0200	68.8072	0.7570

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: BSFGM FINE GRADE CREW (MG) Prod:MU 0.02 Eff: 100.00 Crew Hrs:6.40 Labor Pcs:5.00 Equipment Pcs:4.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8GRDMED	Grader 130-199 HP	1.00	6.40	HR	82.20	100.00	82.20	526.08
8ROLVIBLRG	Vib Compactor 8+ Mton	1.00	6.40	HR	99.12	100.00	99.12	634.37
8TRKPU	Pick-Up Truck	1.00	6.40	HR	12.84	100.00	12.84	82.18
8TRKWAT1	Water Truck 2k Gal	1.00	6.40	HR	35.49	100.00	35.49	227.14
LAB2FM	LABOR FOREPERSON CL2	1.00	6.40	MH	33.80	110.00	68.28	436.96
OPRHH2GR	GRADER OR MOTOR PATROL. GR 2	1.00	6.40	MH	39.49	110.00	77.29	494.63
OPRHH5SFC	SHEEP FOOT COMPACTOR WITH BL	1.00	6.40	MH	35.06	110.00	71.02	454.50
SPCGRDCHK	GRADE CHECKER (EXCLUDE SUPER	1.00	6.40	MH	33.40	110.00	67.01	428.85
TD4TTH	TANK TRUCK HELPER (GAS, OIL,	1.00	6.40	MH	30.35	110.00	60.45	386.89

Activity: 16000.06 Fabricate Wood Footing Forms (Unreviewed) Quantity: 479.95 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4.18	3.36	7.54	1.09	0.00	0.00	0.00	8.63
Total	2,004.00	1,613.43	3,617.43	525.19	0.00	0.00	0.00	4,142.62

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
8.6314	0.0235	42.5002	366.8340	1.1293	425.0015	0.0024	3,668.3403

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
47.9900	10.0010	0.1000	75.3788	4.1754

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS001 Assemble Footing Form Crew Prod:MU 0.1 Eff: 100.00 Crew Hrs:11.29 Labor Pcs:4.25 Equipment Pcs:2.50

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LDRSKD	Skid 0-100 HP	0.25	2.82	HR	34.25	100.00	34.25	96.59
8MISCAIRSML	Air Comp 100-300 CFM	1.00	11.29	HR	20.73	100.00	20.73	234.04
8MISCWELD2	Weld Machine 400 Amp	0.25	2.82	HR	17.59	100.00	17.59	49.60
8TRKPU	Pick-Up Truck	1.00	11.29	HR	12.84	100.00	12.84	144.96
LABCM	LABORER, COMMON (GENERAL LAB	1.00	11.29	MH	32.80	110.00	66.86	754.84
OPRHH4SKID	FRONT END, SKID STEER OVER 1	0.25	2.82	MH	38.64	110.00	76.08	214.55
SPCCARP	CARPENTERS	2.00	22.59	MH	38.96	110.00	77.22	1,744.32
SPCCARPFM	CARPENTERS FOREMAN	1.00	11.29	MH	40.96	110.00	80.05	903.72

Activity: 16000.07 S&S Footing Forms (Unreviewed) Quantity: 1600.60 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	8.25	6.59	14.84	10.57	0.00	0.00	0.00	25.41
Total	13,207.05	10,549.97	23,757.02	16,912.85	0.00	0.00	0.00	40,669.87

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
25.4091	0.0250	40.0000	1,016.3656	4.0015	400.0000	0.0025	10,163.6561

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
320.1500	4.9995	0.2000	74.2059	8.2513

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS003 S&S Wall Form Crew Prod:MU 0.2 Eff: 100.00 Crew Hrs:40.02 Labor Pcs:8.00 Equipment Pcs:6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8CRNCRWLMED	Crawler Crane 68-150 MTON	1.00	40.02	HR	290.65	100.00	290.65	11,631.81
8LDRSKD	Skid 0-100 HP	1.00	40.02	HR	34.25	100.00	34.25	1,370.69
8LFT3	Manlift 60 FT	1.00	40.02	HR	46.55	100.00	46.55	1,862.93
8MISCAIRSML	Air Comp 100-300 CFM	1.00	40.02	HR	20.73	100.00	20.73	829.61
8MISCWELD2	Weld Machine 400 Amp	1.00	40.02	HR	17.59	100.00	17.59	703.95
8TRKPU	Pick-Up Truck	1.00	40.02	HR	12.84	100.00	12.84	513.86
LABCM	LABORER, COMMON (GENERAL LAB	1.00	40.02	MH	32.80	110.00	66.86	2,675.68
OPRHH2CR	ALL CRANES WITH OVER 135-FOO	1.00	40.02	MH	39.49	110.00	77.29	3,092.99
OPRHH4SKID	FRONT END, SKID STEER OVER 1	1.00	40.02	MH	38.64	110.00	76.08	3,044.85
SPCCARP	CARPENTERS	3.00	120.05	MH	38.96	110.00	77.22	9,269.80
SPCCARPFM	CARPENTERS FOREMAN	1.00	40.02	MH	40.96	110.00	80.05	3,203.46
TD1MW	MECHANIC . WELDER	1.00	40.02	MH	31.25	110.00	61.73	2,470.24

Activity: 16000.08 P/F/C Footing Concrete (Unreviewed) Quantity: 178.00 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
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U. Cost	20.45	16.30	36.74	2.40	0.00	0.00	0.00	39.14
Total	3,639.40	2,900.56	6,539.96	426.68	0.00	0.00	0.00	6,966.64

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
39.1384	0.0714	14.0056	548.1572	1.2709	140.0560	0.0071	5,481.5724

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
88.9700	2.0007	0.4998	73.5075	20.4461

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS004 P/F/C Wall Concrete Prod:MU 0.4998 Eff: 100.00 Crew Hrs:12.71 Labor Pcs:7.00 Equipment Pcs:2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8MISCAIRSML	Air Comp 100-300 CFM	1.00	12.71	HR	20.73	100.00	20.73	263.48
8TRKPU	Pick-Up Truck	1.00	12.71	HR	12.84	100.00	12.84	163.20
LABCM	LABORER, COMMON (GENERAL LAB	3.00	38.13	MH	32.80	110.00	66.86	2,549.32
SPCCARP	CARPENTERS	1.00	12.71	MH	38.96	110.00	77.22	981.43
SPCMASON	CEMENT MASONS	1.00	12.71	MH	39.65	110.00	77.03	979.08
SPCMASONFM	CEMENT MASONS FOREMAN	2.00	25.42	MH	41.65	110.00	79.86	2,030.13

Activity: 16000.09 P&P Wall Concrete (Unreviewed) Quantity: 1600.60 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	0.89	0.67	1.57	0.59	0.00	0.00	0.00	2.16
Total	1,431.78	1,080.13	2,511.91	950.84	0.00	0.00	0.00	3,462.75

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.1634	0.0100	100.0000	216.3407	1.6006	1,000.0000	0.0010	2,163.4075

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
32.0200	49.9875	0.0200	78.4482	0.8945

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS05A Point and Patch Crew w/Lift Prod:MU 0.02 Eff: 100.00 Crew Hrs:16.01 Labor Pcs:2.00 Equipment Pcs:2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LFT3	Manlift 60 FT	1.00	16.01	HR	46.55	100.00	46.55	745.27
8TRKPU	Pick-Up Truck	1.00	16.01	HR	12.84	100.00	12.84	205.57
SPCMASON	CEMENT MASONS	1.00	16.01	MH	39.65	110.00	77.03	1,233.30
SPCMASONFM	CEMENT MASONS FOREMAN	1.00	16.01	MH	41.65	110.00	79.86	1,278.61

Biditem CIP RETAINING WALL STEMS (21" THICK x 10' TALL)

17700

Takeoff Qty: 453.000 CY
 Bid Qty: 453.000 CY

Client #: 2401.507

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	248.85	197.49	446.33	216.38	152.92	130.59	22.08	968.30
Total	112,727.97	89,461.70	202,189.67	98,021.19	69,272.71	59,155.37	10,000.00	438,638.94

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
2,697.5600	0.1679	5.9549	162.6058	41.7889	74.9528	0.8395

Activity: 16100.01 Permanent Materials (Unreviewed) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2C070	3G52 Concrete	1.05	475.65	CY	135.00	107.88	145.64	69,272.71

Activity: 16100.02 Expendable Materials - Formwork (Unreviewed) Quantity: 1.00 Unit: LS

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	0.00	0.00	0.00	0.00	0.00	47,746.91	0.00	47,746.91
Total	0.00	0.00	0.00	0.00	0.00	47,746.91	0.00	47,746.91

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3ACS002	Handrail Materials	1.00	275.00	LF	7.00	107.88	7.55	2,076.69
3ACS003	OSHA Walkway Planks	2.00	549.99	LF	12.00	107.88	12.95	7,119.95
3ACS027	Formwork Accessories - Walls	1.00	13,744.00	SF	0.35	107.88	0.38	5,189.46
3FA10	Form Oil	1.00	13,744.00	SF	0.03	107.88	0.03	444.81
3L105	Lumber	1.20	8,246.40	SF	1.65	107.88	1.78	14,678.76
3L110	Plywood	1.20	8,246.40	SF	2.05	107.88	2.21	18,237.24

Activity: 16100.03 Expendable Materials - Concrete (Unreviewed) Quantity: 1.00 Unit: LS

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	0.00	0.00	0.00	0.00	0.00	2,348.46	0.00	2,348.46
Total	0.00	0.00	0.00	0.00	0.00	2,348.46	0.00	2,348.46

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Notes: 200 SF/GAL

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3R10	Point & Patch S&E	1.00	13,744.00	SF	0.03	107.88	0.03	444.81
3R40	Wet Cure S&E	1.00	2,645.97	SF	0.10	107.88	0.11	285.45

3R60	Curing Compound	1.00	100.00	GAL	15.00	107.88	16.18	1,618.20
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Activity: 16100.04 Subcontractor - Pump Concrete (Unreviewed) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
5192	Conc. Pump Single	1.00	453.00	CY	20.00	100.00	20.00	9,060.00

Activity: 16100.05 Sub - Special Surface Finish (Unreviewed) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4PNT	Painting Subcontractor	1.00	1.00	LS	10,000.00	100.00	10,000.00	10,000.00

Activity: 16100.06 Fabricate Wood Wall Forms (Unreviewed) Quantity: 4535.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	5.22	4.20	9.42	1.37	0.00	0.00	0.00	10.79
Total	23,671.70	19,058.08	42,729.78	6,206.44	0.00	0.00	0.00	48,936.22

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
10.7908	0.0294	34.0000	366.8866	13.3382	339.9999	0.0029	3,668.8664

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
566.8700	8.0001	0.1250	75.3784	5.2198

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS002 Assemble Wall Form Crew Prod: MU 0.125 Eff: 100.00 Crew Hrs: 133.38 Labor Pcs: 4.25 Equipment Pcs: 2.50

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LDRSKD	Skid 0-100 HP	0.25	33.35	HR	34.25	100.00	34.25	1,142.24
8MISCAIRSM	Air Comp 100-300 CFM	1.00	133.38	HR	20.73	100.00	20.73	2,764.97
8MISCWELD2	Weld Machine 400 Amp	0.25	33.35	HR	17.59	100.00	17.59	586.63
8TRKPU	Pick-Up Truck	1.00	133.38	HR	12.84	100.00	12.84	1,712.60
LABCM	LABORER, COMMON (GENERAL LAB	1.00	133.38	MH	32.80	110.00	66.86	8,917.60
OPRHH4SKID	FRONT END, SKID STEER OVER 1	0.25	33.35	MH	38.64	110.00	76.08	2,537.38
SPCCARP	CARPENTERS	2.00	266.76	MH	38.96	110.00	77.22	20,598.19
SPCCARPFM	CARPENTERS FOREMAN	1.00	133.38	MH	40.96	110.00	80.05	10,676.61

Activity: 16100.07 S&S Wall Forms (Unreviewed) Quantity: 13744.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4.54	3.62	8.16	5.81	0.00	0.00	0.00	13.97
Total	62,367.56	49,820.10	112,187.66	79,864.85	0.00	0.00	0.00	192,052.51

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
13.9736	0.0138	72.7273	1,016.2584	18.8980	727.2727	0.0014	10,162.5839
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
1,511.8400	9.0909	0.1100	74.2060	4.5378			

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS003 S&S Wall Form Crew Prod: MU 0.11 Eff: 100.00 Crew Hrs: 188.98 Labor Pcs: 8.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8CRNCRWLME	Crawler Crane 68-150 MTON	1.00	188.98	HR	290.65	100.00	290.65	54,927.04
8LDRSKD	Skid 0-100 HP	1.00	188.98	HR	34.25	100.00	34.25	6,472.57
8LFT3	Manlift 60 FT	1.00	188.98	HR	46.55	100.00	46.55	8,797.02
8MISCAIRSML	Air Comp 100-300 CFM	1.00	188.98	HR	20.73	100.00	20.73	3,917.56
8MISCWELD2	Weld Machine 400 Amp	1.00	188.98	HR	17.59	100.00	17.59	3,324.16
8TRKPU	Pick-Up Truck	1.00	188.98	HR	12.84	100.00	12.84	2,426.50
LABCM	LABORER, COMMON (GENERAL LAB	1.00	188.98	MH	32.80	110.00	66.86	12,634.93
OPRHH2CR	ALL CRANES WITH OVER 135-FOO	1.00	188.98	MH	39.49	110.00	77.29	14,605.55
OPRHH4SKID	FRONT END, SKID STEER OVER 1	1.00	188.98	MH	38.64	110.00	76.08	14,378.23
SPCCARP	CARPENTERS	3.00	566.94	MH	38.96	110.00	77.22	43,776.95
SPCCARPFM	CARPENTERS FOREMAN	1.00	188.98	MH	40.96	110.00	80.05	15,127.20
TD1MW	MECHANIC . WELDER	1.00	188.98	MH	31.25	110.00	61.73	11,664.80

Activity: 16100.08 P/F/C Wall Concrete (Unreviewed) Quantity: 453.00 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	23.31	18.58	41.88	2.73	0.00	0.00	0.00	44.62
Total	10,558.22	8,414.73	18,972.95	1,237.73	0.00	0.00	0.00	20,210.68

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
44.6152	0.0814	12.2850	548.0981	3.6874	122.8501	0.0081	5,480.9813
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
258.1100	1.7551	0.5698	73.5072	23.3073			

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS004 P/F/C Wall Concrete Prod: MU 0.5698 Eff: 100.00 Crew Hrs: 36.87 Labor Pcs: 7.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8MISCAIRSML	Air Comp 100-300 CFM	1.00	36.87	HR	20.73	100.00	20.73	764.32
8TRKPU	Pick-Up Truck	1.00	36.87	HR	12.84	100.00	12.84	473.41
LABCM	LABORER, COMMON (GENERAL LAB	3.00	110.62	MH	32.80	110.00	66.86	7,395.89
SPCCARP	CARPENTERS	1.00	36.87	MH	38.96	110.00	77.22	2,846.96

SPCMASON	CEMENT MASONS	1.00	36.87	MH	39.65	110.00	77.03	2,840.20
SPCMASONFM	CEMENT MASONS FOREMAN	2.00	73.75	MH	41.65	110.00	79.86	5,889.90

Activity: 16100.09 Rub Finish Walls (Unreviewed) Quantity: 6872.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	0.56	0.42	0.98	0.37	0.00	0.00	0.00	1.35
Total	3,839.23	2,896.31	6,735.54	2,549.61	0.00	0.00	0.00	9,285.15

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1.3512	0.0062	160.0842	216.2989	4.2927	1,600.8424	0.0006	2,162.9891

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
85.8600	80.0373	0.0125	78.4479	0.5587

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS05A Point and Patch Crew w/Lift Prod: UM 80.0421 Eff: 100.00 Crew Hrs:42.93 Labor Pcs:2.00 Equipment Pcs:2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LFT3	Manlift 60 FT	1.00	42.93	HR	46.55	100.00	46.55	1,998.39
8TRKPU	Pick-Up Truck	1.00	42.93	HR	12.84	100.00	12.84	551.22
SPCMASON	CEMENT MASONS	1.00	42.93	MH	39.65	110.00	77.03	3,307.02
SPCMASONFM	CEMENT MASONS FOREMAN	1.00	42.93	MH	41.65	110.00	79.86	3,428.52

Activity: 16100.10 P&P Wall Concrete (Unreviewed) Quantity: 13744.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	0.89	0.67	1.57	0.59	0.00	0.00	0.00	2.16
Total	12,291.26	9,272.48	21,563.74	8,162.56	0.00	0.00	0.00	29,726.30

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.1629	0.0100	100.0000	216.2857	13.7440	1,000.0000	0.0010	2,162.8565

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
274.8800	50.0000	0.0200	78.4478	0.8943

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS05A Point and Patch Crew w/Lift Prod: UM 50 Eff: 100.00 Crew Hrs:137.44 Labor Pcs:2.00 Equipment Pcs:2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LFT3	Manlift 60 FT	1.00	137.44	HR	46.55	100.00	46.55	6,397.83
8TRKPU	Pick-Up Truck	1.00	137.44	HR	12.84	100.00	12.84	1,764.73
SPCMASON	CEMENT MASONS	1.00	137.44	MH	39.65	110.00	77.03	10,587.37
SPCMASONFM	CEMENT MASONS FOREMAN	1.00	137.44	MH	41.65	110.00	79.86	10,976.37

Biditem

REINFORCING FOR WALLS (EPOXY)

17800

Takeoff Qty: 51,372.000 LB

Client #: 2401.507

Bid Qty: 51,372.000 LB

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.01	0.01	0.02	0.07	1.01	0.00	0.53	1.63
Total	557.76	434.60	992.36	3,731.95	51,629.38	0.00	27,340.18	83,693.87

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
12.8400	4,000.9346	0.0002	6,518.2142	43.4393	77.2866	4,000.9657

Activity: 16200.01 FURNISH MATERIALS (Unreviewed) Quantity: 51372.00 Unit: LB

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.00	0.00	0.00	0.00	1.01	0.00	0.00	1.01
Total	0.00	0.00	0.00	0.00	51,629.38	0.00	0.00	51,629.38

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2CRR62	Rebar, Epoxy Coated	1.00	51,372.00	LB	0.85	107.88	0.92	47,195.77
2CRR63	Rebar Access, Epoxy	1.00	51,372.00	LB	0.08	107.88	0.09	4,433.61

Activity: 16200.02 Assist Rebar Sub (Unreviewed) Quantity: 25.69 Unit: TON

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	21.71	16.92	38.63	145.27	0.00	0.00	0.00	183.90
Total	557.76	434.60	992.36	3,731.95	0.00	0.00	0.00	4,724.31

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
183.8968	0.4998	2.0008	367.9398	1.2840	20.0079	0.0500	3,679.3978

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
12.8400	2.0008	0.4998	77.2866	21.7112

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS008 Rebar Assist Crew Prod: MU 0.4998 Eff: 100.00 Crew Hrs: 12.84 Labor Pcs: 1.00 Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8CRNCRWLMED	Crawler Crane 68-150 MTON	1.00	12.84	HR	290.65	100.00	290.65	3,731.95
OPRHH2CR	ALL CRANES WITH OVER 135-FOO	1.00	12.84	MH	39.49	110.00	77.29	992.36

Activity: 16200.03 INSTALL REBAR (Unreviewed) Quantity: 51372.00 Unit: LB

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4IW	Reinforcement Bars Subcontractor	1.00	51,372.00	LB	0.53	100.00	0.53	27,340.18

Biditem - Parent

CIP RETAINING WALL (RW-E)

18000

Takeoff Qty: 158.000 CY

Client #: 2401.507

Bid Qty: 158.000 CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	219.34	174.21	393.56	201.63	249.55	177.75	68.11	1,090.60
Total	34,656.30	27,525.51	62,181.81	31,857.23	39,428.96	28,084.15	10,761.87	172,314.02

	Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
	831.2700	0.1901	5.2612	207.2901	41.6908	74.8034	0.0000

Biditem

CIP RETAINING WALL FOOTINGS (3' THICK x 6' WIDE)

18100

Takeoff Qty: 59.000 CY

Client #: 2401.507

Bid Qty: 59.000 CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	120.79	96.29	217.08	114.00	147.26	92.24	0.00	570.59
Total	7,126.70	5,681.24	12,807.94	6,726.21	8,688.12	5,442.35	0.00	33,664.62

	Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
	172.7900	0.3415	2.9286	194.8297	41.2449	74.1243	2.0590

Activity: 16000.01 Permanent Materials (Unreviewed) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2C004	1G52 Concrete	1.05	61.95	CY	130.00	107.88	140.24	8,688.12

Activity: 16000.02 Expendable Materials - Formwork (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	3,365.86	0.00	3,365.86
Total	0.00	0.00	0.00	0.00	0.00	3,365.86	0.00	3,365.86

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3ACS027	Formwork Accessories - Walls	1.00	1,200.00	SF	0.35	107.88	0.38	453.10
3FA10	Form Oil	1.00	1,200.00	SF	0.03	107.88	0.03	38.84

3L105	Lumber	1.20	720.00	SF	1.65	107.88	1.78	1,281.61
3L110	Plywood	1.20	720.00	SF	2.05	107.88	2.21	1,592.31

Activity: 16000.03 Expendable Materials - Concrete (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	896.49	0.00	896.49
Total	0.00	0.00	0.00	0.00	0.00	896.49	0.00	896.49

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Notes: 200 SF/GAL

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3R10	Point & Patch S&E	1.00	1,200.00	SF	0.03	107.88	0.03	38.84
3R40	Wet Cure S&E	1.00	1,200.00	SF	0.10	107.88	0.11	129.46
3R60	Curing Compound	1.00	45.00	GAL	15.00	107.88	16.18	728.19

Activity: 16000.04 Subcontractor - Pump Concrete (Unreviewed) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
5192	Conc. Pump Single	1.00	59.00	CY	20.00	100.00	20.00	1,180.00

Activity: 16000.05 Fine Grade Wall Footings (Unreviewed) Quantity: 530.68 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.76	0.62	1.37	0.92	0.00	0.00	0.00	2.29
Total	401.34	328.03	729.37	486.85	0.00	0.00	0.00	1,216.22

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.2918	0.0040	250.0024	572.9590	0.2123	2,500.0236	0.0004	5,729.5897

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
10.6000	50.0642	0.0200	68.8085	0.7563

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: BSFGM FINE GRADE CREW (MG) Prod:MU 0.02 Eff: 100.00 Crew Hrs:2.12 Labor Pcs:5.00 Equipment Pcs:4.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8GRDMED	Grader 130-199 HP	1.00	2.12	HR	82.20	100.00	82.20	174.26
8ROLVIBLRG	Vib Compactor 8+ Mton	1.00	2.12	HR	99.12	100.00	99.12	210.13
8TRKPU	Pick-Up Truck	1.00	2.12	HR	12.84	100.00	12.84	27.22
8TRKWAT1	Water Truck 2k Gal	1.00	2.12	HR	35.49	100.00	35.49	75.24
LAB2FM	LABOR FOREPERSON CL2	1.00	2.12	MH	33.80	110.00	68.27	144.74

OPRHH2GR	GRADER OR MOTOR PATROL. GR 2	1.00	2.12	MH	39.49	110.00	77.29	163.85
OPRHH5SFC	SHEEP FOOT COMPACTOR WITH BL	1.00	2.12	MH	35.06	110.00	71.02	150.56
SPCGRDCHK	GRADE CHECKER (EXCLUDE SUPER	1.00	2.12	MH	33.40	110.00	67.01	142.06
TD4TTH	TANK TRUCK HELPER (GAS, OIL,	1.00	2.12	MH	30.35	110.00	60.45	128.16

Activity: 16000.06 Fabricate Wood Footing Forms (Unreviewed) Quantity: 159.17 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4.18	3.36	7.54	1.10	0.00	0.00	0.00	8.64
Total	665.20	535.56	1,200.76	174.62	0.00	0.00	0.00	1,375.38

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
8.6409	0.0235	42.4997	367.2381	0.3745	424.9973	0.0024	3,672.3806

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
15.9300	9.9918	0.1001	75.3773	4.1792

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS001 Assemble Footing Form Crew Prod: MU 0.1 Eff: 100.00 Crew Hrs: 3.75 Labor Pcs: 4.25 Equipment Pcs: 2.50

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LDRSKD	Skid 0-100 HP	0.25	0.94	HR	34.25	100.00	34.26	32.20
8MISCAIRSML	Air Comp 100-300 CFM	1.00	3.75	HR	20.73	100.00	20.73	77.74
8MISCWELD2	Weld Machine 400 Amp	0.25	0.94	HR	17.59	100.00	17.59	16.53
8TRKPU	Pick-Up Truck	1.00	3.75	HR	12.84	100.00	12.84	48.15
LABCM	LABORER, COMMON (GENERAL LAB	1.00	3.75	MH	32.80	110.00	66.86	250.72
OPRHH4SKID	FRONT END, SKID STEER OVER 1	0.25	0.94	MH	38.64	110.00	76.09	71.52
SPCCARP	CARPENTERS	2.00	7.49	MH	38.96	110.00	77.22	578.35
SPCCARPFM	CARPENTERS FOREMAN	1.00	3.75	MH	40.96	110.00	80.05	300.17

Activity: 16000.07 S&S Footing Forms (Unreviewed) Quantity: 530.68 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	8.25	6.59	14.84	10.57	0.00	0.00	0.00	25.41
Total	4,378.97	3,497.98	7,876.95	5,608.05	0.00	0.00	0.00	13,485.00

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
25.4108	0.0250	40.0000	1,016.4317	1.3267	400.0000	0.0025	10,164.3175

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
106.1500	4.9993	0.2000	74.2058	8.2516

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS003 S&S Wall Form Crew Prod: MU 0.2 Eff: 100.00 Crew Hrs: 13.27 Labor Pcs: 8.00 Equipment Pcs: 6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8CRNCRWLMED	Crawler Crane 68-150 MTON	1.00	13.27	HR	290.65	100.00	290.65	3,856.93
8LDRSKD	Skid 0-100 HP	1.00	13.27	HR	34.25	100.00	34.25	454.50
8LFT3	Manlift 60 FT	1.00	13.27	HR	46.55	100.00	46.55	617.72
8MISCAIRSML	Air Comp 100-300 CFM	1.00	13.27	HR	20.73	100.00	20.73	275.09
8MISCWELD2	Weld Machine 400 Amp	1.00	13.27	HR	17.59	100.00	17.59	233.42
8TRKPU	Pick-Up Truck	1.00	13.27	HR	12.84	100.00	12.84	170.39
LABCM	LABORER, COMMON (GENERAL LAB	1.00	13.27	MH	32.80	110.00	66.86	887.21
OPRHH2CR	ALL CRANES WITH OVER 135-FOO	1.00	13.27	MH	39.49	110.00	77.29	1,025.59
OPRHH4SKID	FRONT END, SKID STEER OVER 1	1.00	13.27	MH	38.64	110.00	76.08	1,009.63
SPCCARP	CARPENTERS	3.00	39.80	MH	38.96	110.00	77.22	3,073.20
SPCCARPFM	CARPENTERS FOREMAN	1.00	13.27	MH	40.96	110.00	80.05	1,062.22
TD1MW	MECHANIC . WELDER	1.00	13.27	MH	31.25	110.00	61.73	819.10

Activity: 16000.08 P/F/C Footing Concrete (Unreviewed) Quantity: 59.00 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	20.45	16.30	36.74	2.40	0.00	0.00	0.00	39.14
Total	1,206.31	961.42	2,167.73	141.33	0.00	0.00	0.00	2,309.06

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
39.1366	0.0714	14.0056	548.1318	0.4213	140.0560	0.0071	5,481.3180

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
29.4900	2.0007	0.4998	73.5073	20.4459

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS004 P/F/C Wall Concrete Prod: MU 0.4998 Eff: 100.00 Crew Hrs: 4.21 Labor Pcs: 7.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8MISCAIRSML	Air Comp 100-300 CFM	1.00	4.21	HR	20.73	100.00	20.73	87.27
8TRKPU	Pick-Up Truck	1.00	4.21	HR	12.84	100.00	12.84	54.06
LABCM	LABORER, COMMON (GENERAL LAB	3.00	12.64	MH	32.80	110.00	66.86	845.09
SPCCARP	CARPENTERS	1.00	4.21	MH	38.96	110.00	77.22	325.08
SPCMASON	CEMENT MASONS	1.00	4.21	MH	39.65	110.00	77.03	324.31
SPCMASONFM	CEMENT MASONS FOREMAN	2.00	8.43	MH	41.65	110.00	79.86	673.25

Activity: 16000.09 P&P Wall Concrete (Unreviewed) Quantity: 530.68 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	0.89	0.68	1.57	0.59	0.00	0.00	0.00	2.16
Total	474.88	358.25	833.13	315.36	0.00	0.00	0.00	1,148.49

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
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2.1642	0.0100	100.0000	216.4186	0.5307	1,000.0000	0.0010	2,164.1856
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
10.6200	49.9699	0.0200	78.4492	0.8949			

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS05A Point and Patch Crew w/Lift Prod: MU 0.02 Eff: 100.00 Crew Hrs:5.31 Labor Pcs:2.00 Equipment Pcs:2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LFT3	Manlift 60 FT	1.00	5.31	HR	46.55	100.00	46.55	247.18
8TRKPU	Pick-Up Truck	1.00	5.31	HR	12.84	100.00	12.84	68.18
SPCMASON	CEMENT MASONS	1.00	5.31	MH	39.65	110.00	77.03	409.05
SPCMASONFM	CEMENT MASONS FOREMAN	1.00	5.31	MH	41.65	110.00	79.86	424.08

Biditem CIP RETAINING WALL STEMS (21" THICK x 12.5' TALL)

18200

Takeoff Qty: 99.000 CY
Bid Qty: 99.000 CY

Client #: 2401.507

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	276.37	219.32	495.70	242.46	152.92	228.71	25.25	1,145.03
Total	27,361.06	21,712.95	49,074.01	24,003.30	15,139.07	22,641.80	2,500.00	113,358.18

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
654.6000	0.1512	6.6121	173.1717	41.7981	74.9679	0.7538

Activity: 16100.01 Permanent Materials (Unreviewed) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2C070	3G52 Concrete	1.05	103.95	CY	135.00	107.88	145.64	15,139.07

Activity: 16100.02 Expendable Materials - Formwork (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	18,649.08	0.00	18,649.08
Total	0.00	0.00	0.00	0.00	0.00	18,649.08	0.00	18,649.08

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3ACS002	Handrail Materials	1.00	275.00	LF	7.00	107.88	7.55	2,076.69
3ACS003	OSHA Walkway Planks	2.00	549.99	LF	12.00	107.88	12.95	7,119.95
3ACS027	Formwork Accessories - Walls	1.00	3,370.00	SF	0.35	107.88	0.38	1,272.44

3FA10	Form Oil	1.00	3,370.00	SF	0.03	107.88	0.03	109.07
3L105	Lumber	1.20	2,022.00	SF	1.65	107.88	1.78	3,599.20
3L110	Plywood	1.20	2,022.00	SF	2.05	107.88	2.21	4,471.73

Activity: 16100.03 Expendable Materials - Concrete (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	2,012.72	0.00	2,012.72
Total	0.00	0.00	0.00	0.00	0.00	2,012.72	0.00	2,012.72

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Notes: 200 SF/GAL

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3R10	Point & Patch S&E	1.00	3,370.00	SF	0.03	107.88	0.03	109.07
3R40	Wet Cure S&E	1.00	2,645.97	SF	0.10	107.88	0.11	285.45
3R60	Curing Compound	1.00	100.00	GAL	15.00	107.88	16.18	1,618.20

Activity: 16100.04 Subcontractor - Pump Concrete (Unreviewed) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
5192	Conc. Pump Single	1.00	99.00	CY	20.00	100.00	20.00	1,980.00

Activity: 16100.05 Sub - Special Surface Finish (Unreviewed) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4PNT	Painting Subcontractor	1.00	1.00	LS	2,500.00	100.00	2,500.00	2,500.00

Activity: 16100.06 Fabricate Wood Wall Forms (Unreviewed) Quantity: 1112.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	5.22	4.20	9.42	1.37	0.00	0.00	0.00	10.79
Total	5,804.85	4,673.48	10,478.33	1,522.14	0.00	0.00	0.00	12,000.47

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
10.7918	0.0294	34.0000	366.9206	3.2706	339.9998	0.0029	3,669.2065

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
139.0100	7.9994	0.1250	75.3782	5.2202

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS002 Assemble Wall Form Crew Prod: MU 0.125 Eff: 100.00 Crew Hrs: 32.71 Labor Pcs: 4.25 Equipment Pcs: 2.50

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LDRSKD	Skid 0-100 HP	0.25	8.18	HR	34.25	100.00	34.25	280.17
8MISCAIRSML	Air Comp 100-300 CFM	1.00	32.71	HR	20.73	100.00	20.73	678.08
8MISCWELD2	Weld Machine 400 Amp	0.25	8.18	HR	17.59	100.00	17.59	143.89
8TRKPU	Pick-Up Truck	1.00	32.71	HR	12.84	100.00	12.84	420.00
LABCM	LABORER, COMMON (GENERAL LAB	1.00	32.71	MH	32.80	110.00	66.86	2,186.94
OPRHH4SKID	FRONT END, SKID STEER OVER 1	0.25	8.18	MH	38.64	110.00	76.08	622.36
SPCCARP	CARPENTERS	2.00	65.41	MH	38.96	110.00	77.22	5,050.70
SPCCARPFM	CARPENTERS FOREMAN	1.00	32.71	MH	40.96	110.00	80.05	2,618.33

Activity: 16100.07 S&S Wall Forms (Unreviewed) Quantity: 3370.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4.54	3.62	8.16	5.81	0.00	0.00	0.00	13.97
Total	15,292.80	12,216.10	27,508.90	19,583.76	0.00	0.00	0.00	47,092.66

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
13.9741	0.0138	72.7273	1,016.2970	4.6338	727.2727	0.0014	10,162.9695

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
370.7100	9.0907	0.1100	74.2060	4.5379

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS003 S&S Wall Form Crew Prod:MU 0.11 Eff: 100.00 Crew Hrs:46.34 Labor Pcs:8.00 Equipment Pcs:6.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8CRNCRWLMED	Crawler Crane 68-150 MTON	1.00	46.34	HR	290.65	100.00	290.65	13,468.72
8LDRSKD	Skid 0-100 HP	1.00	46.34	HR	34.25	100.00	34.25	1,587.15
8LFT3	Manlift 60 FT	1.00	46.34	HR	46.55	100.00	46.55	2,157.13
8MISCAIRSML	Air Comp 100-300 CFM	1.00	46.34	HR	20.73	100.00	20.73	960.63
8MISCWELD2	Weld Machine 400 Amp	1.00	46.34	HR	17.59	100.00	17.59	815.12
8TRKPU	Pick-Up Truck	1.00	46.34	HR	12.84	100.00	12.84	595.01
LABCM	LABORER, COMMON (GENERAL LAB	1.00	46.34	MH	32.80	110.00	66.86	3,098.22
OPRHH2CR	ALL CRANES WITH OVER 135-FOO	1.00	46.34	MH	39.49	110.00	77.29	3,581.45
OPRHH4SKID	FRONT END, SKID STEER OVER 1	1.00	46.34	MH	38.64	110.00	76.08	3,525.71
SPCCARP	CARPENTERS	3.00	139.01	MH	38.96	110.00	77.22	10,733.82
SPCCARPFM	CARPENTERS FOREMAN	1.00	46.34	MH	40.96	110.00	80.05	3,709.37
TD1MW	MECHANIC . WELDER	1.00	46.34	MH	31.25	110.00	61.72	2,860.33

Activity: 16100.08 P/F/C Wall Concrete (Unreviewed) Quantity: 99.00 Unit: CY

Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
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U. Cost	23.31	18.58	41.89	2.73	0.00	0.00	0.00	44.62
Total	2,307.91	1,839.37	4,147.28	270.57	0.00	0.00	0.00	4,417.85

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
44.6247	0.0814	12.2850	548.2156	0.8059	122.8501	0.0081	5,482.1557

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
56.4200	1.7547	0.5699	73.5073	23.3122

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS004 P/F/C Wall Concrete Prod:MU 0.5698 Eff: 100.00 Crew Hrs:8.06 Labor Pcs:7.00 Equipment Pcs:2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8MISCAIRSML	Air Comp 100-300 CFM	1.00	8.06	HR	20.73	100.00	20.73	167.08
8TRKPU	Pick-Up Truck	1.00	8.06	HR	12.84	100.00	12.84	103.49
LABCM	LABORER, COMMON (GENERAL LAB	3.00	24.18	MH	32.80	110.00	66.86	1,616.64
SPCCARP	CARPENTERS	1.00	8.06	MH	38.96	110.00	77.22	622.36
SPCMASON	CEMENT MASONS	1.00	8.06	MH	39.65	110.00	77.03	620.89
SPCMASONFM	CEMENT MASONS FOREMAN	2.00	16.12	MH	41.65	110.00	79.86	1,287.39

Activity: 16100.09 Rub Finish Walls (Unreviewed) Quantity: 1685.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	0.56	0.42	0.98	0.37	0.00	0.00	0.00	1.35
Total	941.70	710.42	1,652.12	625.38	0.00	0.00	0.00	2,277.50

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
1.3516	0.0062	160.0844	216.3752	1.0526	1,600.8436	0.0006	2,163.7516

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
21.0600	80.0095	0.0125	78.4482	0.5589

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS05A Point and Patch Crew w/Lift Prod:UM 80.0422 Eff: 100.00 Crew Hrs:10.53 Labor Pcs:2.00 Equipment Pcs:2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LFT3	Manlift 60 FT	1.00	10.53	HR	46.55	100.00	46.55	490.17
8TRKPU	Pick-Up Truck	1.00	10.53	HR	12.84	100.00	12.84	135.21
SPCMASON	CEMENT MASONS	1.00	10.53	MH	39.65	110.00	77.03	811.16
SPCMASONFM	CEMENT MASONS FOREMAN	1.00	10.53	MH	41.65	110.00	79.86	840.96

Activity: 16100.10 P&P Wall Concrete (Unreviewed) Quantity: 3370.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
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U. Cost	0.89	0.67	1.57	0.59	0.00	0.00	0.00	2.16
Total	3,013.80	2,273.58	5,287.38	2,001.45	0.00	0.00	0.00	7,288.83

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.1629	0.0100	100.0000	216.2858	3.3700	1,000.0000	0.0010	2,162.8576

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
67.4000	50.0000	0.0200	78.4478	0.8943

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS05A Point and Patch Crew w/Lift Prod: UM 50 Eff: 100.00 Crew Hrs:33.70 Labor Pcs:2.00 Equipment Pcs:2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LFT3	Manlift 60 FT	1.00	33.70	HR	46.55	100.00	46.55	1,568.74
8TRKPU	Pick-Up Truck	1.00	33.70	HR	12.84	100.00	12.84	432.71
SPCMASON	CEMENT MASONS	1.00	33.70	MH	39.65	110.00	77.03	2,596.00
SPCMASONFM	CEMENT MASONS FOREMAN	1.00	33.70	MH	41.65	110.00	79.86	2,691.38

Biditem
18300

REINFORCING FOR WALLS (EPOXY)

Takeoff Qty: 15,524.000 LB
Bid Qty: 15,524.000 LB

Client #: 2401.507

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.01	0.01	0.02	0.07	1.01	0.00	0.53	1.63
Total	168.54	131.32	299.86	1,127.72	15,601.77	0.00	8,261.87	25,291.22

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
3.8800	4,001.0309	0.0002	6,518.3557	43.4381	77.2835	4,002.6815

Activity: 16200.01 FURNISH MATERIALS (Unreviewed) Quantity: 15524.00 Unit: LB

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	0.00	0.00	0.00	0.00	1.01	0.00	0.00	1.01
Total	0.00	0.00	0.00	0.00	15,601.77	0.00	0.00	15,601.77

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2CRR62	Rebar, Epoxy Coated	1.00	15,524.00	LB	0.85	107.88	0.92	14,261.99
2CRR63	Rebar Access, Epoxy	1.00	15,524.00	LB	0.08	107.88	0.09	1,339.78

Activity: 16200.02 Assist Rebar Sub (Unreviewed) Quantity: 7.76 Unit: TON

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
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U. Cost	21.72	16.92	38.64	145.32	0.00	0.00	0.00	183.97
Total	168.54	131.32	299.86	1,127.72	0.00	0.00	0.00	1,427.58

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
183.9665	0.4998	2.0008	368.0848	0.3878	20.0083	0.0500	3,680.8478

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
3.8800	2.0000	0.5000	77.2835	21.7191

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS008 Rebar Assist Crew Prod: MU 0.4998 Eff: 100.00 Crew Hrs: 3.88 Labor Pcs: 1.00 Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8CRNCRWLMED	Crawler Crane 68-150 MTON	1.00	3.88	HR	290.65	100.00	290.65	1,127.72
OPRHH2CR	ALL CRANES WITH OVER 135-FOO	1.00	3.88	MH	39.49	110.00	77.28	299.86

Activity: 16200.03 INSTALL REBAR (Unreviewed) Quantity: 15524.00 Unit: LB

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4IW	Reinforcement Bars Subcontractor	1.00	15,524.00	LB	0.53	100.00	0.53	8,261.87

Biditem **25003** **RETAINING WALL BARRIER** **Client #: 2401.507**
 Takeoff Qty: 2,324.000 LF
 Bid Qty: 2,324.000 LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	50.28	39.92	90.20	5.56	24.30	2.54	9.65	132.24
Total	116,848.21	92,767.84	209,616.05	12,914.27	56,463.62	5,902.88	22,427.89	307,324.71

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
2,768.6100	0.8394	1.1913	111.0033	42.2046	75.7117	2.7107

Activity: 9110AP Permanent Materials (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	56,463.62	0.00	0.00	56,463.62
Total	0.00	0.00	0.00	0.00	56,463.62	0.00	0.00	56,463.62

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2C076	3552 Concrete	1.05	254.10	CY	135.00	107.88	145.64	37,006.62
2CRR62	Rebar, Epoxy Coated	1.00	19,360.00	LB	0.85	107.88	0.92	17,786.15

2CRR63	Rebar Access, Epoxy	1.00	19,360.00	LB	0.08	107.88	0.09	1,670.85
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Activity: 9110AX Expendable Materials (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	5,902.88	0.00	5,902.88
Total	0.00	0.00	0.00	0.00	0.00	5,902.88	0.00	5,902.88

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Notes: Fabricate 150 lf of forms. 3.5 uses. 835 sf form buy.
70 sf/gal curing compound

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3FA00	Formwork Accessories	1.00	2,962.00	SF	0.25	107.88	0.27	798.85
3FA10	Form Oil	1.00	2,962.00	SF	0.03	107.88	0.03	95.86
3L105	Lumber	1.20	1,002.00	SF	1.65	107.88	1.78	1,783.58
3L110	Plywood	1.20	1,002.00	SF	2.05	107.88	2.21	2,215.96
3R10	Point & Patch S&E	1.00	2,962.00	SF	0.03	107.88	0.03	95.86
3R40	Wet Cure S&E	1.00	661.00	SF	0.10	107.88	0.11	71.31
3R60	Curing Compound	1.00	52.00	GAL	15.00	107.88	16.18	841.46

Activity: 9110AZZ Subcontractor - Rebar (Unreviewed) Quantity: 1.00 Unit: LS

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4ACS014B	Sub-Install Rebar Epoxy Barriers	1.00	19,360.00	LB	0.68	100.00	0.68	13,131.89

Activity: 9110B2 Unload/Handle Rebar (Unreviewed) Quantity: 11.43 Unit: TON

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	4.33	3.38	7.71	28.99	0.00	0.00	0.00	36.70
Total	49.52	38.59	88.11	331.34	0.00	0.00	0.00	419.45

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
36.6973	0.1000	10.0000	366.9729	0.1143	100.0000	0.0100	3,669.7288

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1.1400	10.0263	0.0997	77.2895	4.3325

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS007 Rebar Unload/Handle Crew Prod:UH 10 Eff: 100.00 Crew Hrs:1.14 Labor Pcs:1.00 Equipment Pcs:1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8CRNCRWLMED	Crawler Crane 68-150 MTON	1.00	1.14	HR	290.65	100.00	290.65	331.34

OPRHH2CR	ALL CRANES WITH OVER 135-FOO	1.00	1.14	MH	39.49	110.00	77.29	88.11
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Activity: 9110B3 Assist Rebar Sub (Unreviewed) Quantity: 11.43 Unit: TON

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	21.74	16.94	38.68	145.45	0.00	0.00	0.00	184.13
Total	248.47	193.61	442.08	1,662.52	0.00	0.00	0.00	2,104.60

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
184.1295	0.5000	2.0000	368.2590	0.5715	20.0000	0.0500	3,682.5897

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
5.7200	1.9983	0.5004	77.2867	21.7384

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS008 Rebar Assist Crew Prod: MU 0.5 Eff: 100.00 Crew Hrs: 5.72 Labor Pcs: 1.00 Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8CRNCRWLMED	Crawler Crane 68-150 MTON	1.00	5.72	HR	290.65	100.00	290.65	1,662.52
OPRHH2CR	ALL CRANES WITH OVER 135-FOO	1.00	5.72	MH	39.49	110.00	77.29	442.08

Activity: 9110C Fabricate Wood Forms (Unreviewed) Quantity: 3668.32 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
U. Cost	6.20	5.01	11.21	0.64	0.00	0.00	0.00	11.85
Total	22,742.61	18,365.71	41,108.32	2,355.11	0.00	0.00	0.00	43,463.43

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
11.8483	0.0500	20.0000	236.9664	18.3416	200.0000	0.0050	2,369.6640

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
550.2600	6.6665	0.1500	74.7071	6.1997

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS010 Barrier Handform Crew Prod: MU 0.15 Eff: 100.00 Crew Hrs: 183.42 Labor Pcs: 3.00 Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8TRKPU	Pick-Up Truck	1.00	183.42	HR	12.84	100.00	12.84	2,355.11
LABCM	LABORER, COMMON (GENERAL LAB	1.00	183.42	MH	32.80	110.00	66.86	12,263.19
SPCCARP	CARPENTERS	1.00	183.42	MH	38.96	110.00	77.22	14,162.99
SPCCARPFM	CARPENTERS FOREMAN	1.00	183.42	MH	40.96	110.00	80.05	14,682.14

Activity: 9110D S&S Hand Formed Barrier (Unreviewed) Quantity: 2324.00 Unit: LF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
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U. Cost	25.50	20.55	46.05	1.96	0.00	0.00	0.00	48.01
Total	59,258.97	47,766.30	107,025.27	4,560.38	0.00	0.00	0.00	111,585.65

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
48.0145	0.1528	6.5434	314.1795	35.5165	65.4343	0.0153	3,141.7948

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1,420.6700	1.6358	0.6113	75.3344	25.4987

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate
 Crew: ACS011 Barrier Handform S&S Crew Prod:MU 0.6113 Eff: 100.00 Crew Hrs:355.17 Labor Pcs:4.00 Equipment Pcs:1.00

Notes: 1,906 sf wood forms S/S

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8TRKPU	Pick-Up Truck	1.00	355.17	HR	12.84	100.00	12.84	4,560.38
LABCM	LABORER, COMMON (GENERAL LAB	1.00	355.17	MH	32.80	110.00	66.86	23,746.15
SPCCARP	CARPENTERS	2.00	710.33	MH	38.96	110.00	77.22	54,848.98
SPCCARPFM	CARPENTERS FOREMAN	1.00	355.17	MH	40.96	110.00	80.05	28,430.14

Activity: 9110E P/F/C Concrete Barrier (Unreviewed) Quantity: 334.00 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	42.28	32.92	75.20	3.21	0.00	0.00	0.00	78.41
Total	14,121.94	10,993.77	25,115.71	1,072.14	0.00	0.00	0.00	26,187.85

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
78.4067	0.2500	4.0000	313.6269	8.3500	40.0000	0.0250	3,136.2695

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
334.0000	1.0000	1.0000	75.1967	42.2813

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate
 Crew: ACS012 Barrier Pour Crew Prod:MU 1 Eff: 100.00 Crew Hrs:83.50 Labor Pcs:4.00 Equipment Pcs:1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8TRKPU	Pick-Up Truck	1.00	83.50	HR	12.84	100.00	12.84	1,072.14
LABCM	LABORER, COMMON (GENERAL LAB	1.00	83.50	MH	32.80	110.00	66.86	5,582.69
SPCMASON	CEMENT MASONS	2.00	167.00	MH	39.65	110.00	77.03	12,864.46
SPCMASONFM	CEMENT MASONS FOREMAN	1.00	83.50	MH	41.65	110.00	79.86	6,668.56

Activity: 9110F P&P Barrier Concrete (Unreviewed) Quantity: 15227.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Mats	Const Mats	Sub	Total
U. Cost	1.34	1.01	2.35	0.19	0.00	0.00	0.00	2.55
Total	20,426.70	15,409.86	35,836.56	2,932.78	0.00	0.00	0.00	38,769.34

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2.5461	0.0150	66.6667	169.7395	22.8405	666.6667	0.0015	1,697.3945
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
456.8200	33.3326	0.0300	78.4479	1.3415			

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Crew: ACS005 Point and Patch Crew Prod: MU 0.03 Eff: 100.00 Crew Hrs: 228.41 Labor Pcs: 2.00 Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8TRKPU	Pick-Up Truck	1.00	228.41	HR	12.84	100.00	12.84	2,932.78
SPCMASON	CEMENT MASONS	1.00	228.41	MH	39.65	110.00	77.03	17,595.03
SPCMASONFM	CEMENT MASONS FOREMAN	1.00	228.41	MH	41.65	110.00	79.86	18,241.53

Activity: 9110P Paint Sub (Unreviewed) Quantity: 2324.00 Unit: LF

Calendar: 510 5 - 10 hour shifts Hrs/Shift: 10 WC: 0000 Company Average WC Rate

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4PNT	Painting Subcontractor	1.00	2,324.00	LF	4.00	100.00	4.00	9,296.00

Report Summary

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Total
Total	1,388,453	1,113,952	2,502,406	1,889,316	4,310,154	2,485,783	21,379,544	32,567,203

Calendars Used In Estimate

510

5 - 10 hour shifts

Takeoff Tab

13678_I-90_30%Layout

Bid No. 21

No.	Name	Height	Area	Quantity1 UOM1	Quantity2 UOM2	Quantity3 UOM3
Aggregate						
10	Shoulder PI - Aggregate	2"	(unassigned)	7,031 LF	1,172 SY	65 CY
18	4" Aggregate Base (Mainline)	0"	(unassigned)	434,268 SF	48,252 SY	5,361 CY
19	3" Aggregate Base (Sidewalk/Trail)	0"	(unassigned)	62,234 SF	576 CY	0
20	6" Aggregate Base (Shoulders/Driveway)	0"	(unassigned)	95,444 SF	1,767 CY	0
53	Grass Median Areas	0"	(unassigned)	32,529 SF	0	0
Bituminous						
2	Bituminous Shoulder	0"	(unassigned)	93,974 SF	20,883 CY	0
27	Paved Trail	0"	(unassigned)	1,487 SY	165 CY	0
Bridge						
8	Bridge No. 50813 (Existing 6868)	0"	(unassigned)	8,918 SF	0	0
9	Bridge No. 50812 (Existing 6869)	0"	(unassigned)	8,983 SF	0	0
15	Bridge No. 50014 (Existing 9180)	0"	(unassigned)	17,671 SF	0	0
25	Bridge No. 50012 (Existing 9201)	0"	(unassigned)	12,651 SF	0	0
26	Bridge No. 50013 (Existing 9183)	0"	(unassigned)	20,225 SF	0	0
28	Bridge No. 50011 (Existing 50804)	0"	(unassigned)	11,989 SF	0	0
Concrete						
1	9" Concrete	0"	(unassigned)	434,241 SF	48,249 SY	12,062 CY
12	Concrete Walk	0"	(unassigned)	25,048 SF	2,783 SY	232 CY
50	9" Concrete (Driveway)	0"	(unassigned)	1,471 SF	163 SY	41 CY
Curb & Gutter						
5	B424	0"	(unassigned)	3,408 LF	0	0
6	D424	0"	(unassigned)	3,478 LF	0	0
13	B618	0"	(unassigned)	4,105 LF	0	0
14	Median/Median Nose	0"	(unassigned)	24,582 SF	2,731 SY	228 CY
46	B624	0"	(unassigned)	4,283 LF	0	0
47	R424	0"	(unassigned)	875 LF	0	0
48	D4	0"	(unassigned)	930 LF	0	0
49	S524	0"	(unassigned)	2,750 LF	0	0
Removals						
29	Shoulder Pavement	4"	(unassigned)	24,569 LF	16,379 SY	1,820 CY
30	Guardrail	0"	(unassigned)	4,289 LF	0	0
31	Curb and Gutter	0"	(unassigned)	6,067 LF	0	0
32	Ramp Pavement - Concrete	0"	(unassigned)	101,779 SF	11,309 SY	2,827 CY
33	Concrete Walk	4"	(unassigned)	2,106 LF	1,404 SY	156 CY
34	Concrete Pavement	0"	(unassigned)	261,082 SF	29,009 SY	7,252 CY

Takeoff Tab

13678_I-90_30%Layout

Bid No. 21

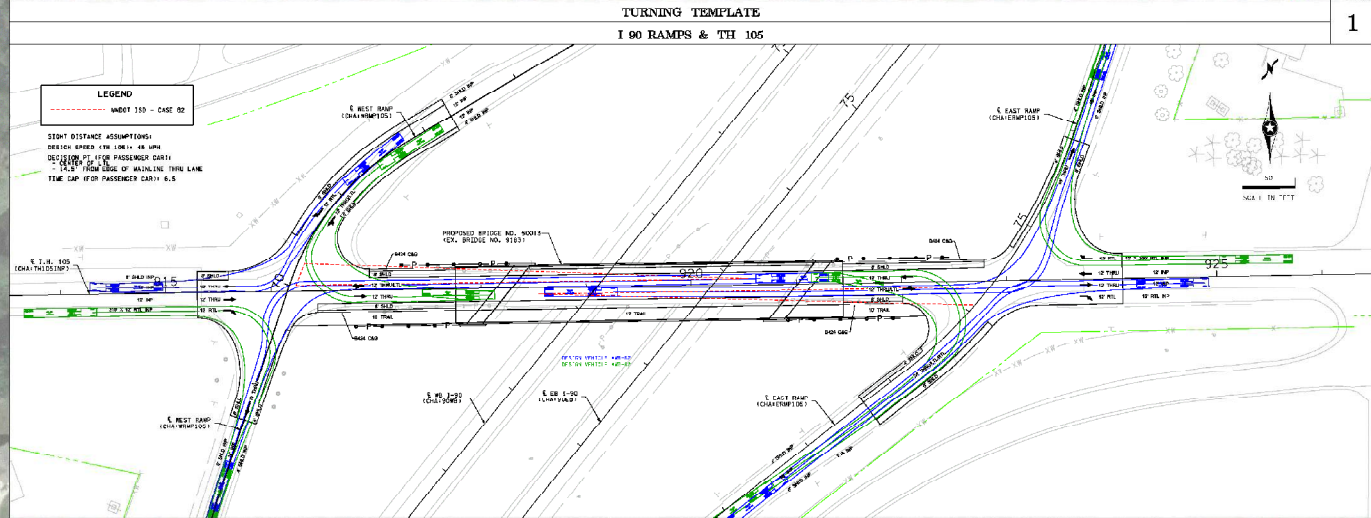
No.	Name	Height	Area	Quantity1 UOM1	Quantity2 UOM2	Quantity3 UOM3
35	Bridge No. 9180	0"	(unassigned)	9,836 SF	0	0
36	Bridge No. 9518	0"	(unassigned)	8,478 SF	0	0
37	Bridge No. 6868	0"	(unassigned)	8,601 SF	0	0
38	Median Barrier	0"	(unassigned)	195 LF	0	0
39	Bridge No. 9183	0"	(unassigned)	19,646 SF	0	0
40	Bridge No. 9201	0"	(unassigned)	9,366 SF	0	0
51	Bituminous Pavement (9")	0"	(unassigned)	91,567 SF	2,544 CY	0
52	Median Pavement	0"	(unassigned)	1,442 SF	18 CY	0
54	Bituminous Trail (4")	0"	(unassigned)	1,394 SF	17 CY	0
55	Bridge No. 50803	0"	(unassigned)	8,356 SF	0	0
56	Bridge No. 50804	0"	(unassigned)	9,362 SF	0	0
Subgrade						
21	20" Select Granular (Mainline)	0"	(unassigned)	434,219 SF	48,247 SY	26,804 CY
42	12" Select Granular (Shoulders)	0"	(unassigned)	93,974 SF	10,442 SY	5,801 CY
Walls						
16	Guardrail	0"	(unassigned)	803 LF	0	0
22	Retaining Wall 5' - 15' = 10' Height Avg	10' 0"	(unassigned)	6,668 SF	667 LF	0
23	Retaining Wall Barrier	0"	(unassigned)	2,324 LF	0	0
43	Retaining Wall 5' - 25' = 15' Height Avg	15' 0"	(unassigned)	16,594 SF	1,106 LF	0
44	Retaining Wall 1' - 2' = 2' Height Avg	2' 0"	(unassigned)	674 SF	337 LF	0
45	Retaining Wall 5' - 20' = 12.5' Height Avg	12' 6"	(unassigned)	6,886 SF	551 LF	0

TH 105 / I-90 INTERCHANGE

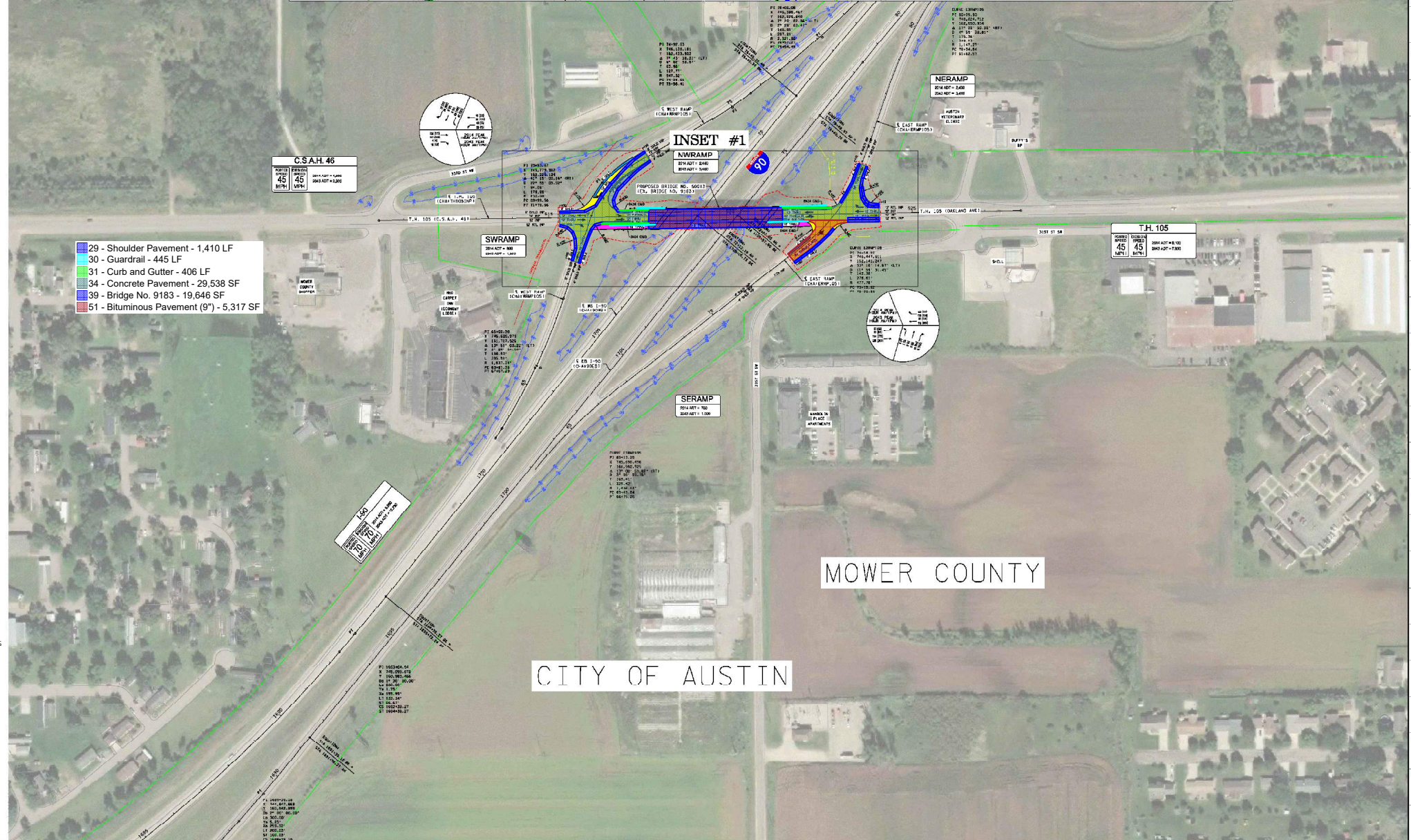
LEGEND

- PROPOSED BRIDGE
- PROPOSED CURB & GUTTER
- PROPOSED CHANNELS
- PROPOSED TRAIL
- PROPOSED CONSTRUCTION LIMITS
- EXISTING WADGET REMIT OF WAY
- PROPOSED QUADRANT
- WETLANDS

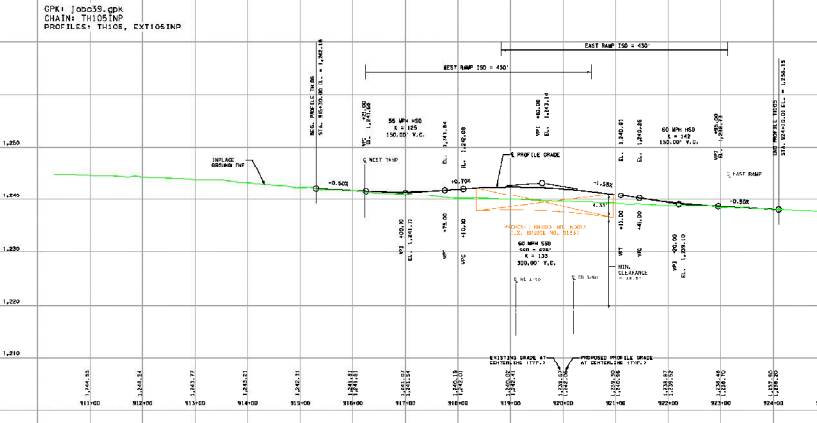
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ISTHMUS ENGINEERING



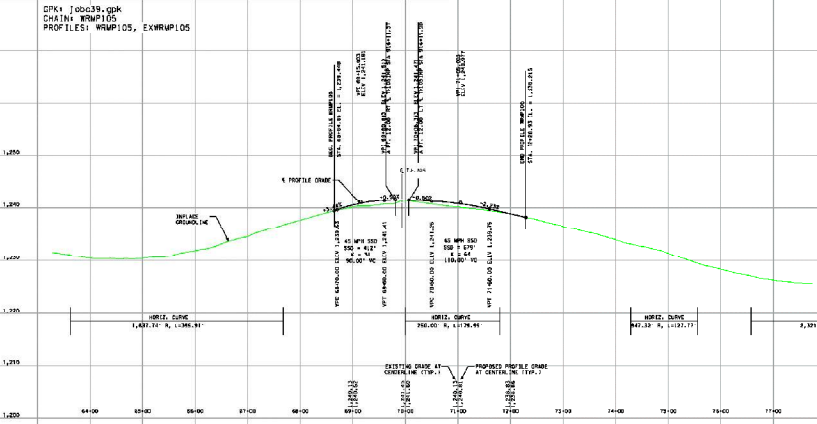
- 29 - Shoulder Pavement - 1,410 LF
- 30 - Guardrail - 445 LF
- 31 - Curb and Gutter - 406 LF
- 34 - Concrete Pavement - 29,538 SF
- 39 - Bridge No. 9183 - 19,646 SF
- 51 - Bituminous Pavement (9") - 5,317 SF



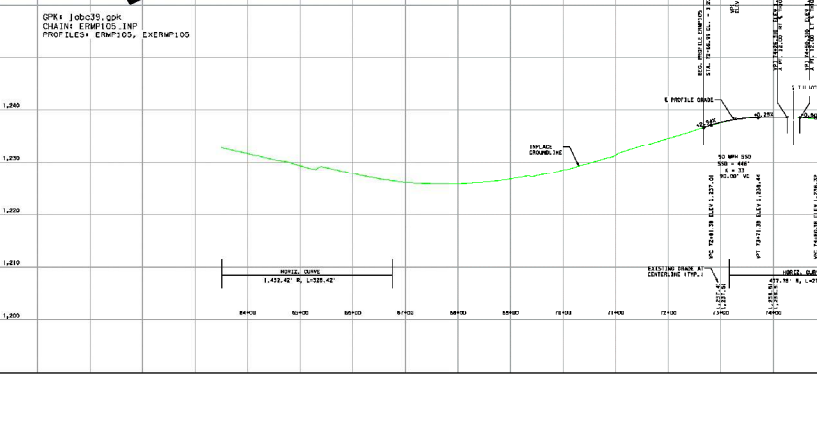
T.H. 105
TRAFFIC

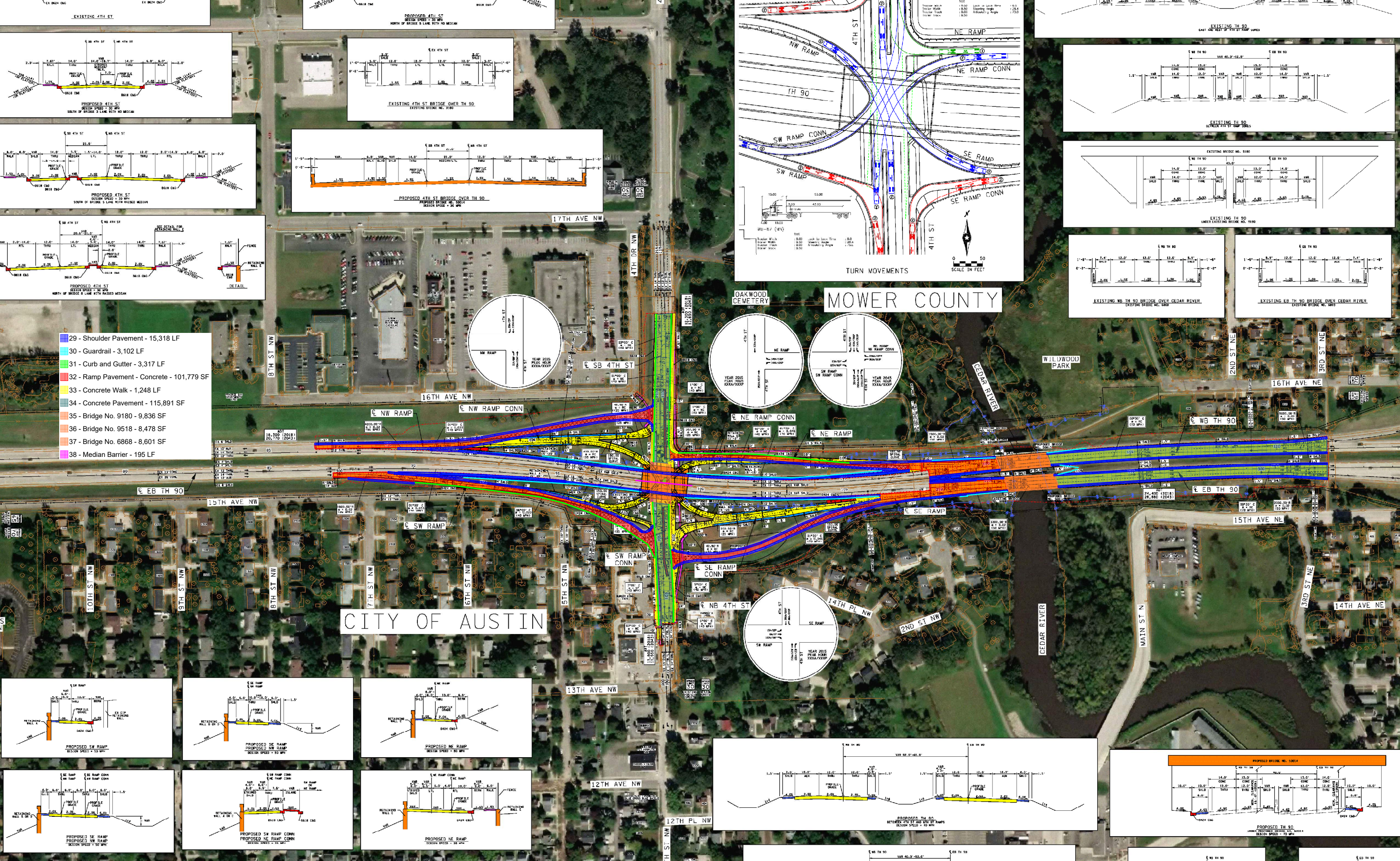


WEST RAMPS
TRAFFIC

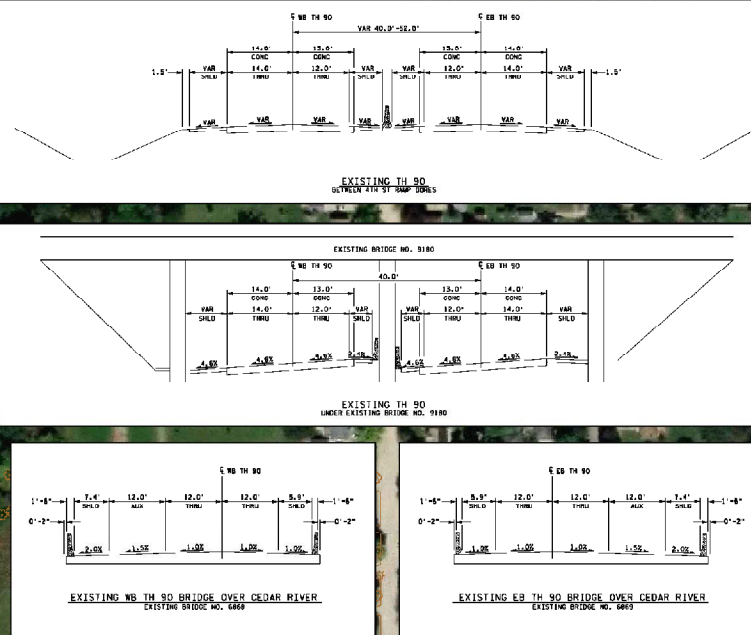
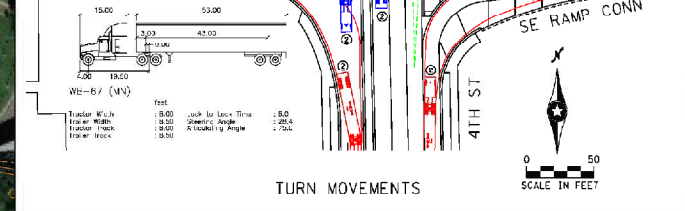


EAST RAMPS
TRAFFIC





- 29 - Shoulder Pavement - 15,318 LF
- 30 - Guardrail - 3,102 LF
- 31 - Curb and Gutter - 3,317 LF
- 32 - Ramp Pavement - Concrete - 101,779 SF
- 33 - Concrete Walk - 1,248 LF
- 34 - Concrete Pavement - 115,891 SF
- 35 - Bridge No. 9180 - 9,836 SF
- 36 - Bridge No. 9518 - 8,478 SF
- 37 - Bridge No. 6868 - 8,601 SF
- 38 - Median Barrier - 195 LF



LEGEND

- PROPOSED BRIDGE
- PROPOSED CURB & GUTTER / MEDIAN
- PROPOSED SHOULDER
- PROPOSED PAV.
- PRELIMINARY CONSTRUCTION LIMITS
- EXISTING RIGHT-OF-WAY
- PROPOSED CHANNELS
- WETLANDS

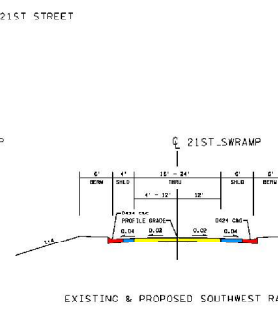
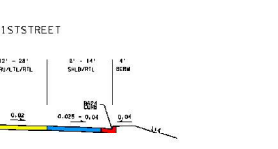
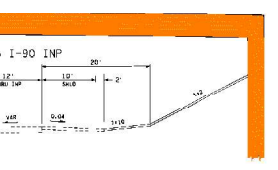
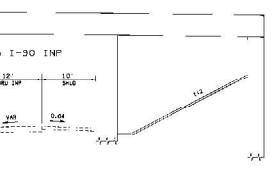
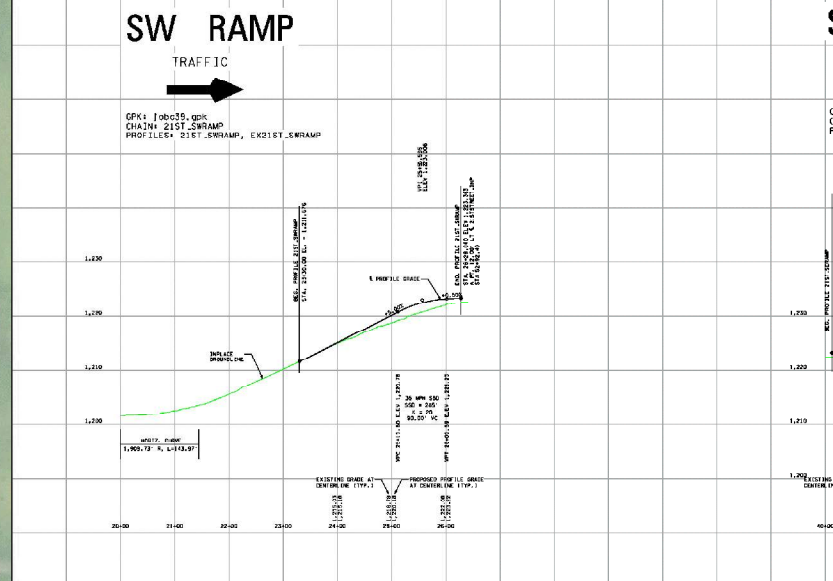
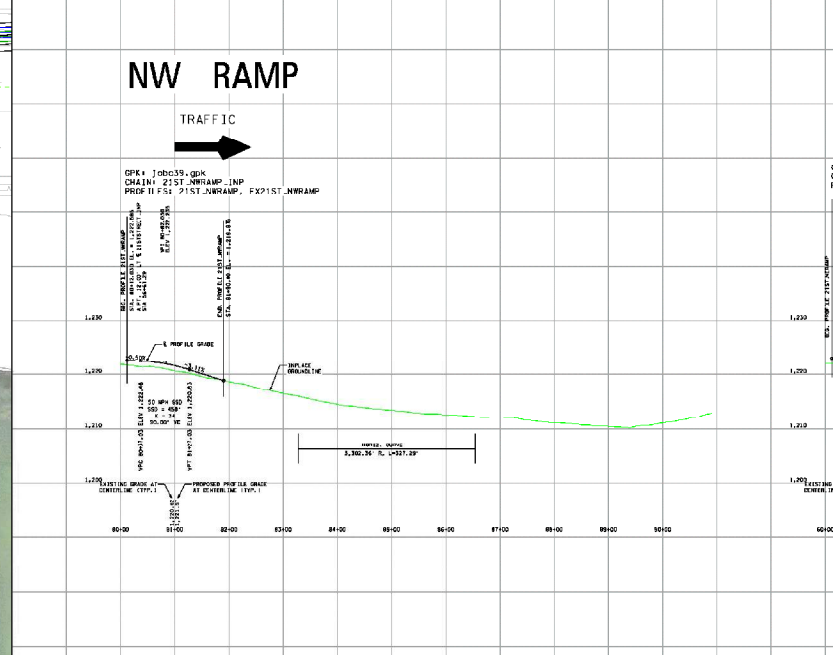
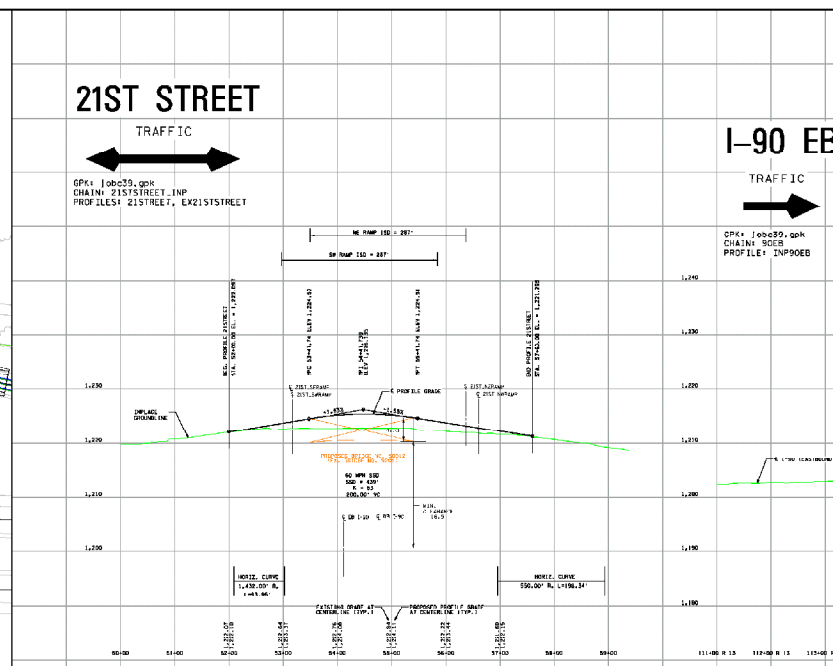
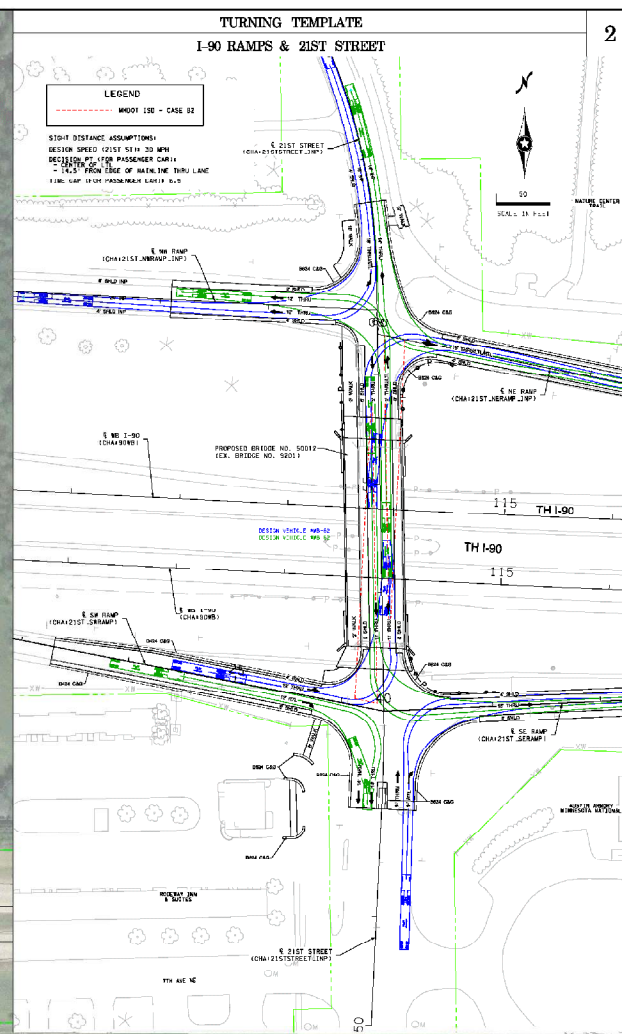
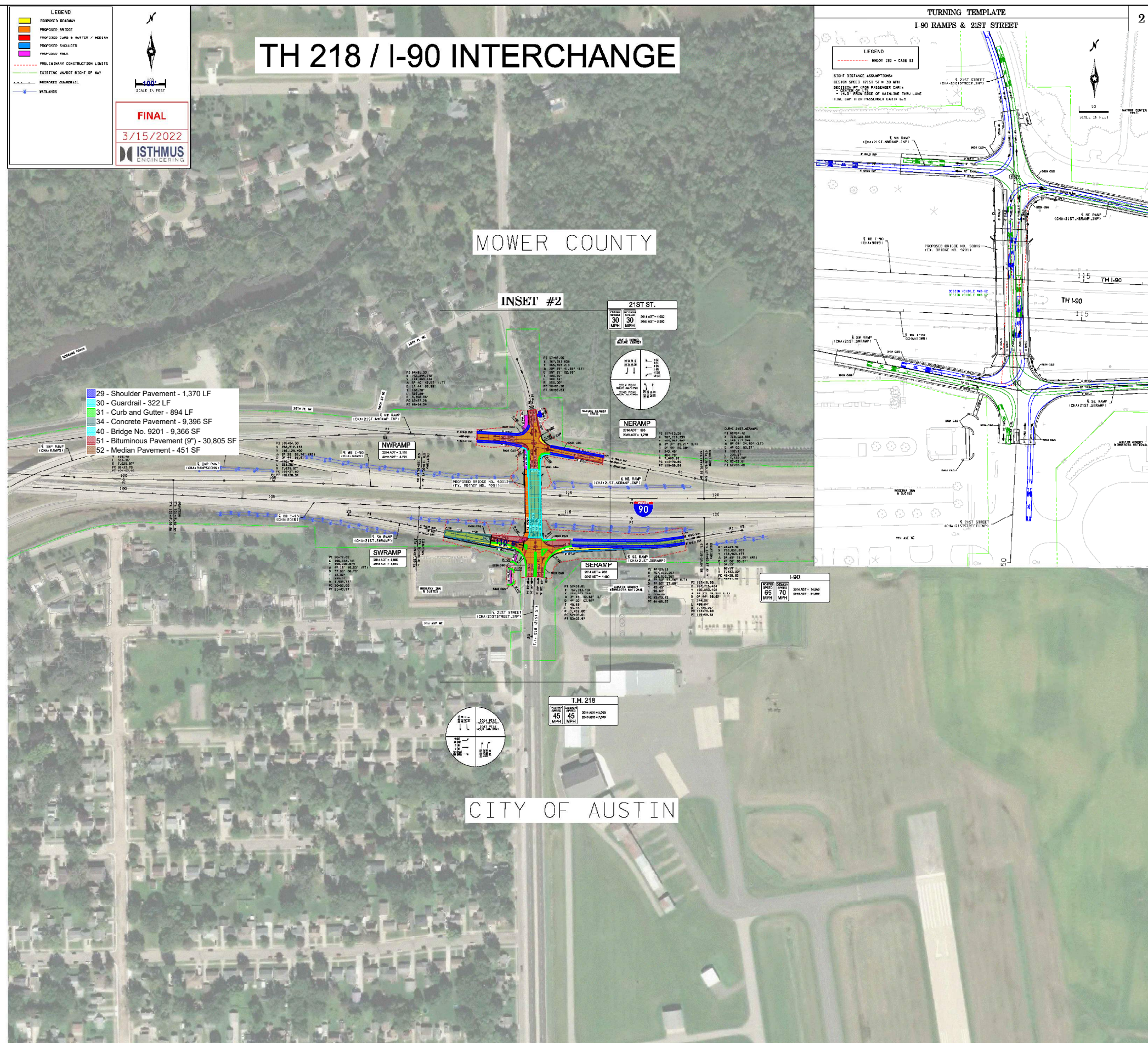
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TH 218 / I-90 INTERCHANGE

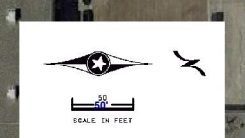
MOWER COUNTY

INSET #2

- 29 - Shoulder Pavement - 1,370 LF
- 30 - Guardrail - 322 LF
- 31 - Curb and Gutter - 894 LF
- 34 - Concrete Pavement - 9,396 SF
- 40 - Bridge No. 9201 - 9,366 SF
- 51 - Bituminous Pavement (9") - 30,805 SF
- 52 - Median Pavement - 451 SF

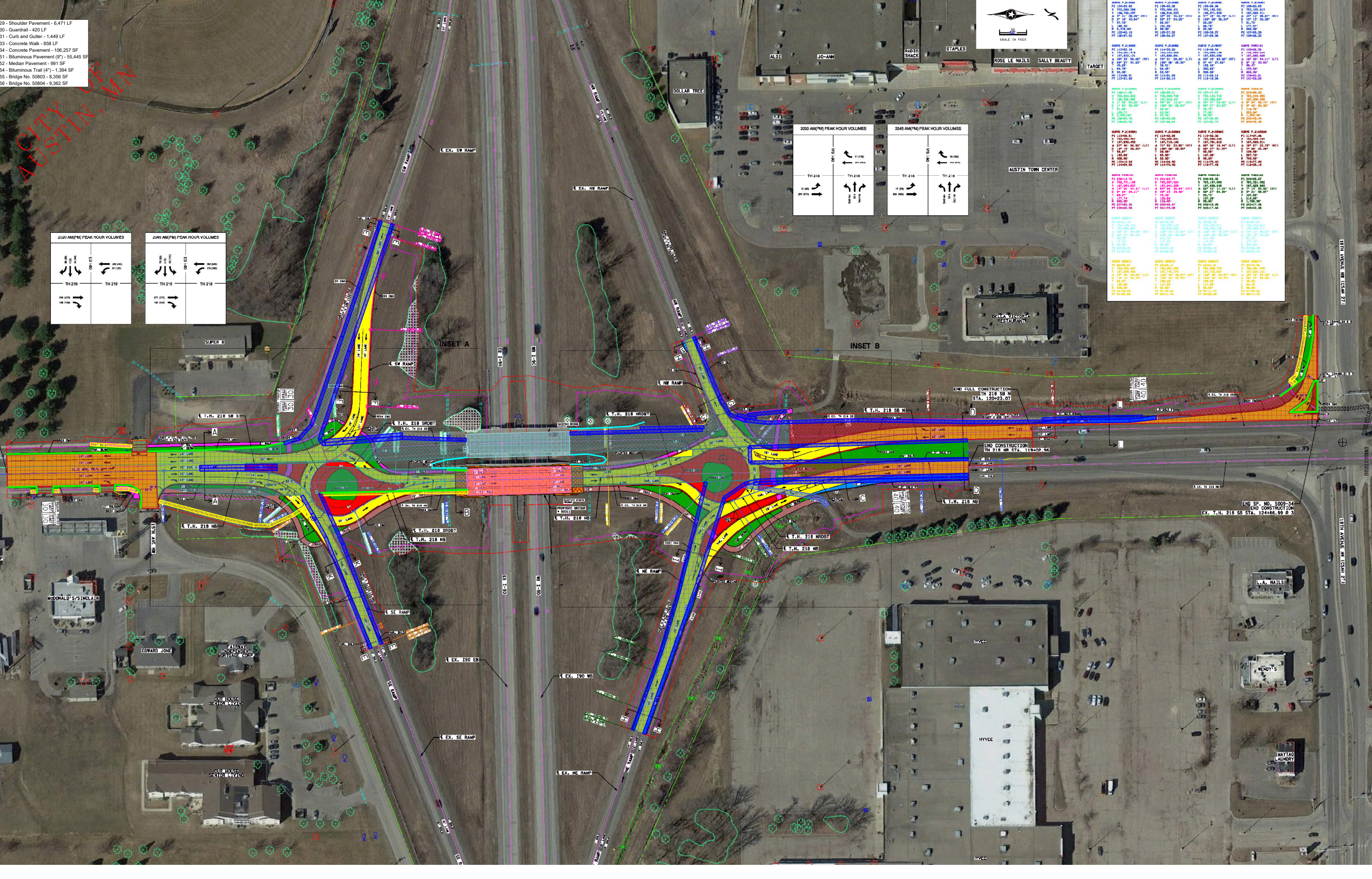
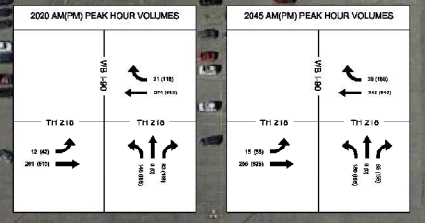
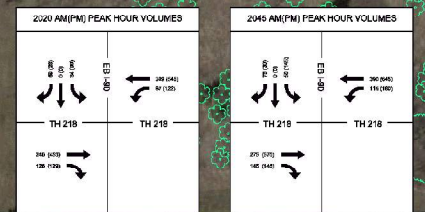


- 29 - Shoulder Pavement - 6,471 LF
- 30 - Guardrail - 420 LF
- 31 - Curb and Gutter - 1,449 LF
- 33 - Concrete Walk - 858 LF
- 34 - Concrete Pavement - 106,257 SF
- 51 - Bituminous Pavement (9") - 55,445 SF
- 52 - Median Pavement - 991 SF
- 54 - Bituminous Trail (4") - 1,394 SF
- 55 - Bridge No. 50803 - 8,356 SF
- 56 - Bridge No. 50804 - 9,362 SF



ALIGNMENT DATA

STATION	CHORD BEARING	CHORD DISTANCE	ARC BEARING	ARC DISTANCE	PI	PT	PC	PT	PC	PT	PC	PT
104+28.86	S 88° 42' 36" W	100.000	171° 17' 24" E	100.000	104+28.86	105+28.86	105+28.86	105+28.86	106+28.86	106+28.86	106+28.86	106+28.86



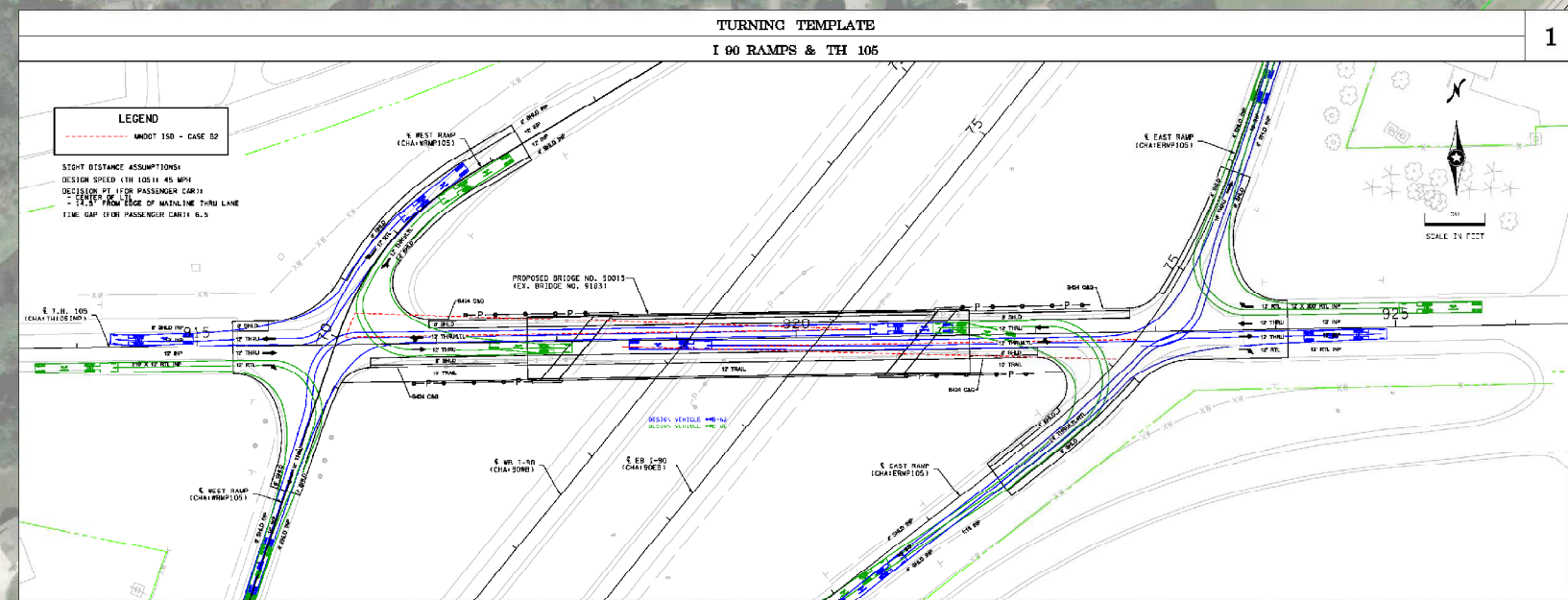
TH 105 / I-90 INTERCHANGE

LEGEND

- PROPOSED ROADWAY
- PROPOSED BRIDGE
- PROPOSED CURB & GUTTER
- PROPOSED SIDEWALK
- PROPOSED TRAIL
- PRELIMINARY CONSTRUCTION LIMITS
- EXISTING UNDOT RIGHT OF WAY
- PROPOSED GUARDRAIL
- WETLANDS

100' SCALE IN FEET

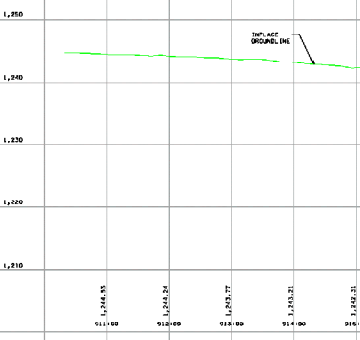
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3/15/2022
ISTHMUS ENGINEERING



T.H. 105
TRAFFIC

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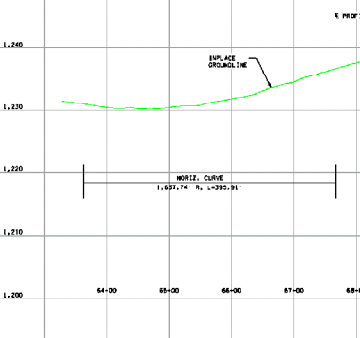
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PROFILES: TH105, EXTH105INP



WEST RAMPS
TRAFFIC

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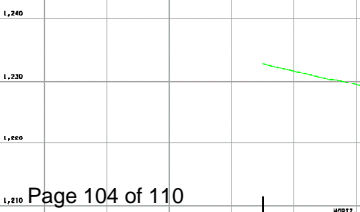
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PROFILES: WRAMP105, EXWRAMP105



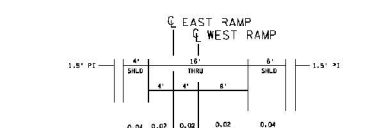
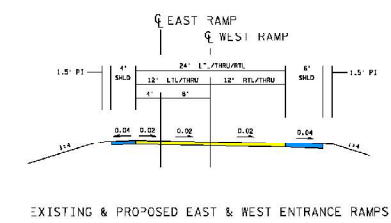
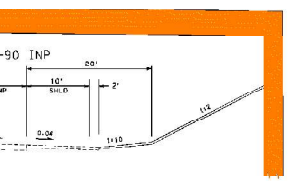
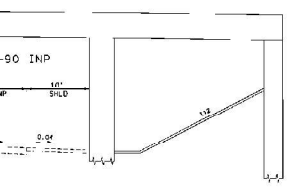
EAST RAMPS
TRAFFIC

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CHASIN ERAMP105
PROFILES: ERAMP105, EXERAMP105

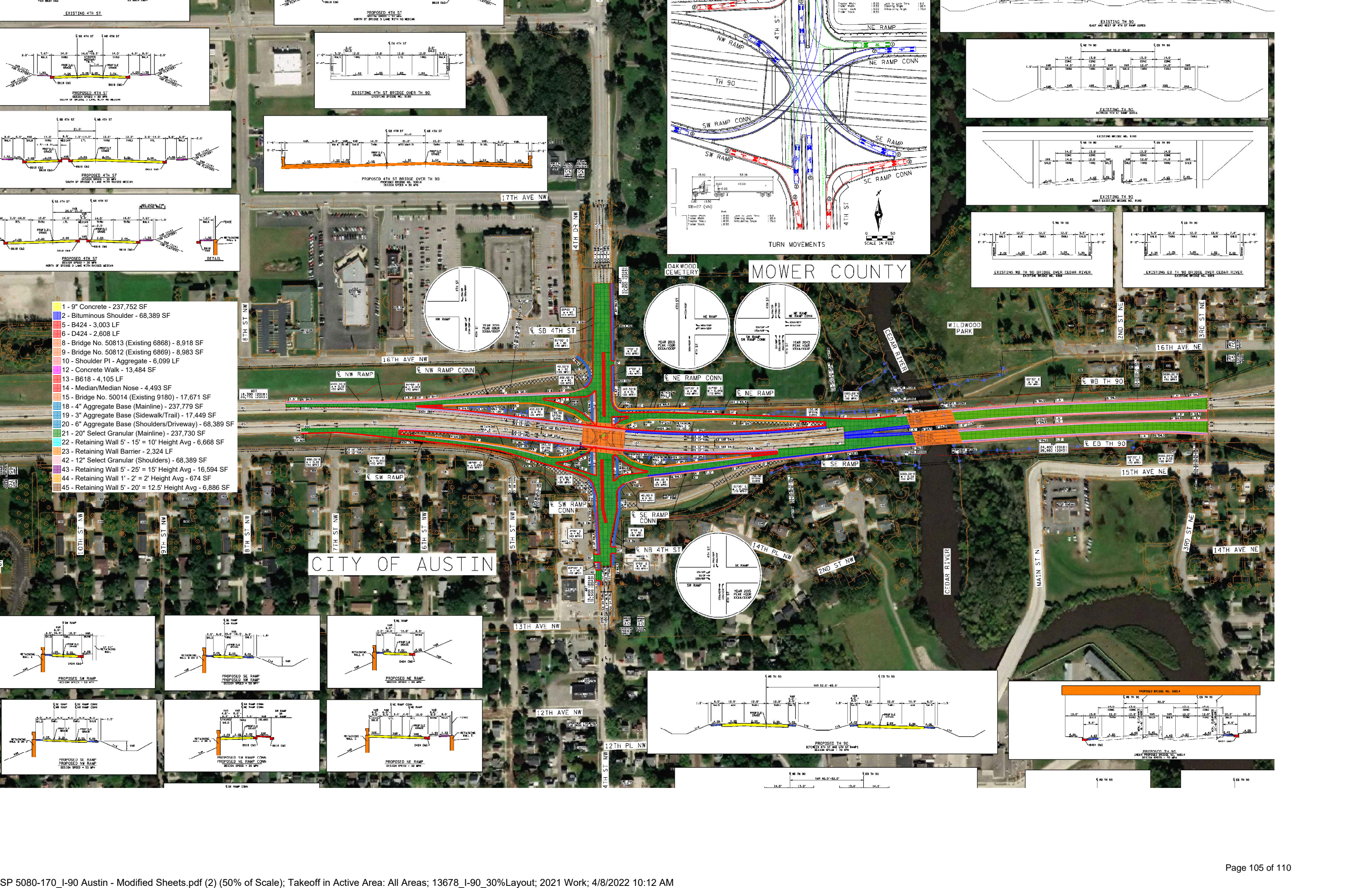


- 1 - 9" Concrete - 37,581 SF
- 2 - Bituminous Shoulder - 6,851 SF
- 5 - B424 - 405 LF
- 16 - Guardrail - 509 LF
- 18 - 4" Aggregate Base (Mainline) - 37,581 SF
- 19 - 3" Aggregate Base (Sidewalk/Trail) - 2,762 SF
- 20 - 6" Aggregate Base (Shoulders/Driveway) - 6,851 SF
- 21 - 20" Select Granular (Mainline) - 37,581 SF
- 26 - Bridge No. 50013 (Existing 9183) - 20,225 SF
- 27 - Paved Trail - 307 SY
- 42 - 12" Select Granular (Shoulders) - 6,851 SF

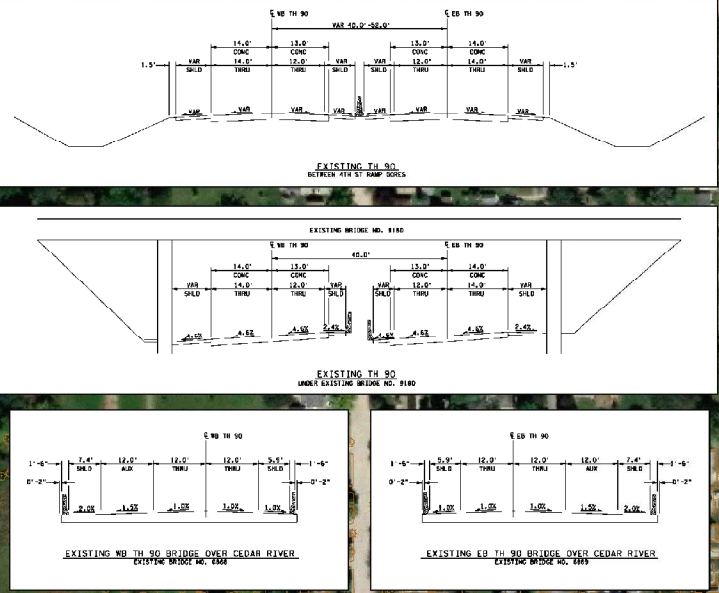


CITY OF AUSTIN

MOWER COUNTY



- 1 - 9" Concrete - 237,752 SF
- 2 - Bituminous Shoulder - 68,389 SF
- 5 - B424 - 3,003 LF
- 6 - D424 - 2,608 LF
- 8 - Bridge No. 50813 (Existing 6868) - 8,918 SF
- 9 - Bridge No. 50812 (Existing 6869) - 8,983 SF
- 10 - Shoulder PI - Aggregate - 6,099 LF
- 12 - Concrete Walk - 13,484 SF
- 13 - B618 - 4,105 LF
- 14 - Median/Median Nose - 4,493 SF
- 15 - Bridge No. 50014 (Existing 9180) - 17,671 SF
- 18 - 4" Aggregate Base (Mainline) - 237,779 SF
- 19 - 3" Aggregate Base (Sidewalk/Trail) - 17,449 SF
- 20 - 6" Aggregate Base (Shoulders/Driveway) - 68,389 SF
- 21 - 20" Select Granular (Mainline) - 237,730 SF
- 22 - Retaining Wall 5' - 15' = 10' Height Avg - 6,668 SF
- 23 - Retaining Wall Barrier - 2,324 LF
- 42 - 12" Select Granular (Shoulders) - 68,389 SF
- 43 - Retaining Wall 5' - 25' = 15' Height Avg - 16,594 SF
- 44 - Retaining Wall 1' - 2' = 2' Height Avg - 674 SF
- 45 - Retaining Wall 5' - 20' = 12.5' Height Avg - 6,886 SF



LEGEND

- PROPOSED ROADWAY
- PROPOSED BRIDGE
- PROPOSED CURB & GUTTER / MEDIAN
- PROPOSED SHOULDER
- PROPOSED WALK
- PRELIMINARY CONSTRUCTION LIMITS
- EXISTING W/OUT RIGHT OF WAY
- PROPOSED GUARDRAIL
- WETLANDS

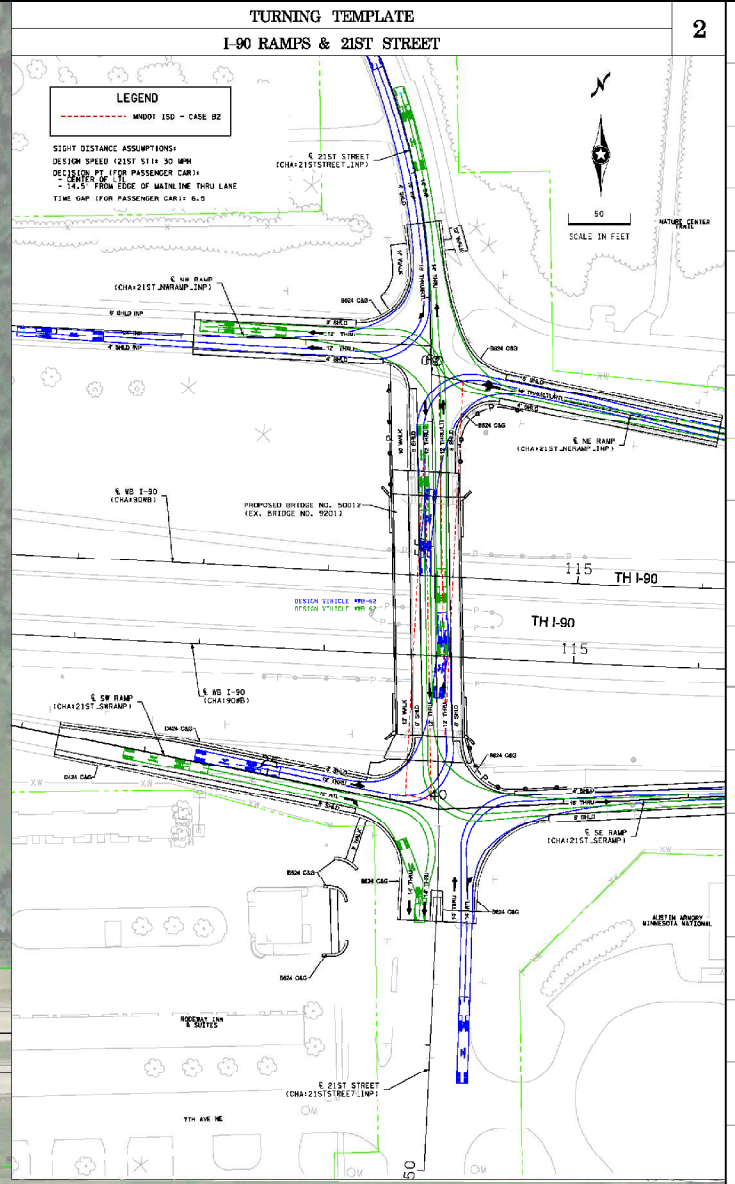
FINAL
3/15/2022
ISTHMUS ENGINEERING

TH 218 / I-90 INTERCHANGE

MOWER COUNTY

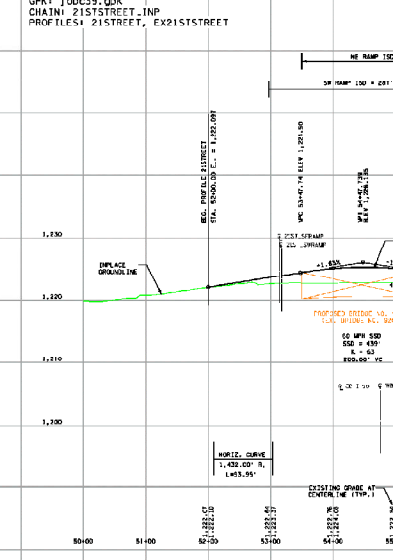
INSET #2

- 1 - 9" Concrete - 37,377 SF
- 2 - Bituminous Shoulder - 9,401 SF
- 6 - D424 - 870 LF
- 12 - Concrete Walk - 2,771 SF
- 14 - Median/Median Nose - 209 SF
- 16 - Guardrail - 294 LF
- 18 - 4" Aggregate Base (Mainline) - 37,377 SF
- 19 - 3" Aggregate Base (Sidewalk/Trail) - 2,980 SF
- 21 - 6" Aggregate Base (Shoulders/Driveway) - 9,401 SF
- 25 - 20" Select Granular (Mainline) - 37,377 SF
- 42 - 12" Select Granular (Shoulders) - 9,401 SF
- 46 - B624 - 884 LF



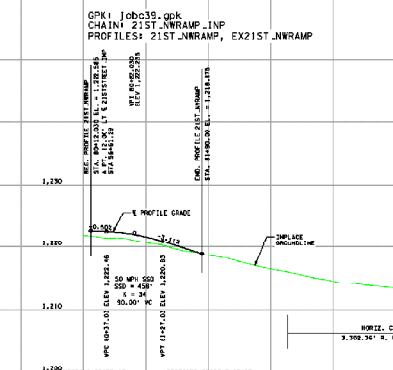
21ST STREET

TRAFFIC



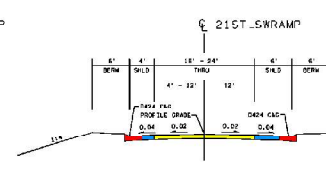
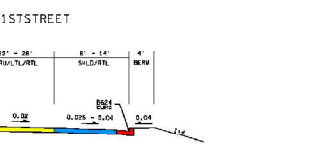
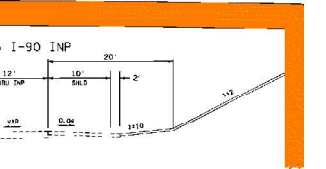
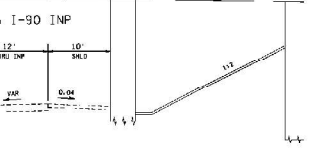
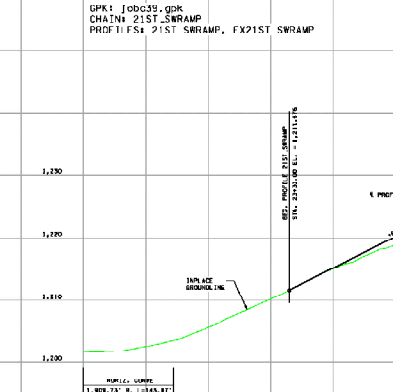
NW RAMP

TRAFFIC



SW RAMP

TRAFFIC

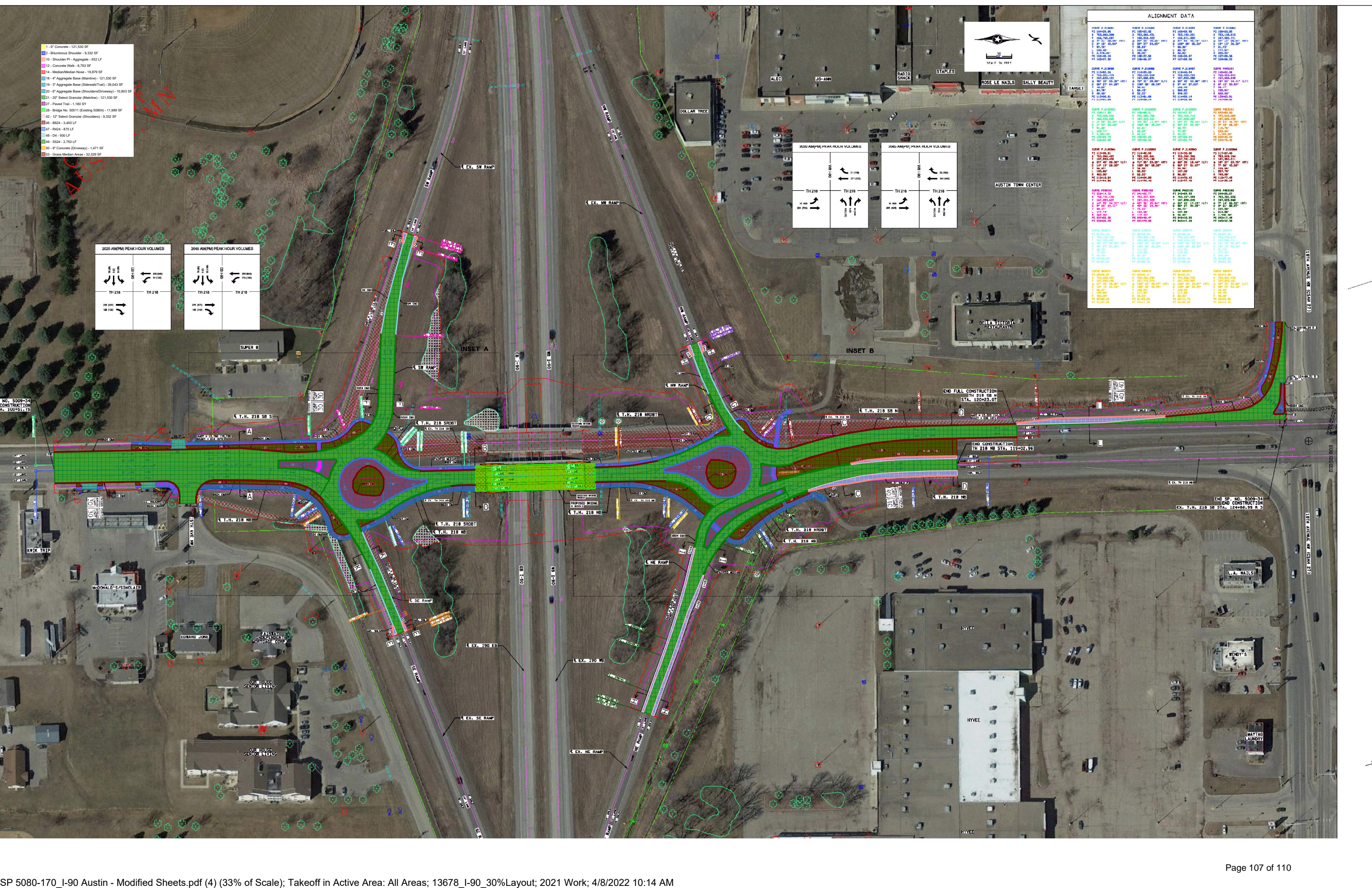
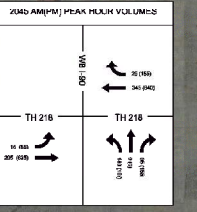
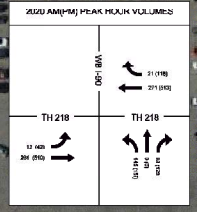
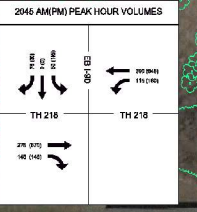
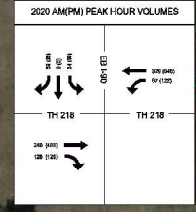


CITY OF AUSTIN

- 1 - 9" Concrete - 121,530 SF
- 2 - Bituminous Shoulder - 9,332 SF
- 10 - Shoulder P1 - Aggregate - 932 LF
- 12 - Concrete Walk - 8,793 SF
- 14 - Median/Median Nose - 19,879 SF
- 16 - 4" Aggregate Base (Mainline) - 121,530 SF
- 19 - 7" Aggregate Base (Shoulder/Trail) - 39,043 SF
- 20 - 6" Aggregate Base (Shoulder/Driveway) - 10,803 SF
- 21 - 20" Select Granular (Mainline) - 121,530 SF
- 27 - Paved Trail - 1,180 SY
- 28 - Bridge No. 50011 (Existing 50804) - 11,989 SF
- 42 - 12" Select Granular (Shoulder) - 9,332 SF
- 46 - B624 - 3,400 LF
- 47 - R424 - 875 LF
- 48 - D4 - 930 LF
- 49 - SS24 - 2,750 LF
- 50 - 9" Concrete (Driveway) - 1,471 SF
- 51 - Grass Median Areas - 32,529 SF



ALIGNMENT DATA			
CURVE P_210000 PI 10490.00 P 162,000.00 Y 162,000.00 D 90° 00' 00.00" L 314.159 PC 10490.00 PT 10804.16	CURVE P_210005 PI 10804.16 P 162,000.00 Y 162,000.00 D 90° 00' 00.00" L 314.159 PC 10804.16 PT 11118.32	CURVE P_210010 PI 11118.32 P 162,000.00 Y 162,000.00 D 90° 00' 00.00" L 314.159 PC 11118.32 PT 11432.48	CURVE P_210015 PI 11432.48 P 162,000.00 Y 162,000.00 D 90° 00' 00.00" L 314.159 PC 11432.48 PT 11746.64



Retaining Wall A										
Panel	Length	Height 1	Height 2	Factor	Height	Area (SF)	Spread Footing		Stem	
							Concrete (CY)	Rebar (lb)	Concrete (CY)	Rebar (lb)
Panel 1	30.5	5.0	6.0	1.0	6.0	183.0	5.8	469.0	11.0	1,062.0
Panel 2	30.5	6.0	7.0	1.0	7.0	213.5	6.2	553.0	13.0	1,191.0
Panel 3	30.5	7.0	8.0	1.0	8.0	244.0	6.6	570.0	15.0	1,299.0
Panel 4	30.5	8.0	9.0	1.0	9.0	274.5	7.0	586.0	17.1	1,407.0
Panel 5	30.5	9.0	10.0	1.0	10.0	305.0	7.5	602.0	19.3	1,516.0
Panel 6	30.5	10.0	11.0	1.0	11.0	335.5	8.0	692.0	21.4	1,706.0
Panel 7	30.5	11.0	12.0	1.0	12.0	366.0	8.7	719.0	23.7	1,943.0
Panel 8	30.5	12.0	13.0	1.0	13.0	396.5	9.4	746.0	26.0	2,076.0
Panel 9	30.5	13.0	14.0	1.0	14.0	427.0	10.1	842.0	28.3	2,233.0
Panel 10	30.5	14.0	15.0	1.0	15.0	457.5	10.9	874.0	30.7	2,358.0
Panel 11	30.5	15.0	16.0	1.0	16.0	488.0	13.1	975.0	33.1	2,587.0
Panel 12	30.5	16.0	17.0	1.0	17.0	518.5	14.0	1,108.0	35.6	2,890.0
Panel 13	30.5	17.0	18.0	1.0	18.0	549.0	16.4	1,216.0	38.1	3,250.0
Panel 14	30.5	18.0	19.0	1.0	19.0	579.5	17.4	1,391.0	40.6	3,467.0
Panel 15	30.5	19.0	19.0	1.0	19.0	579.5	17.4	1,391.0	40.6	3,467.0
Panel 16	30.5	19.0	20.0	1.0	20.0	610.0	19.1	1,508.0	43.2	4,097.0
Panel 17	30.5	20.0	21.0	1.0	21.0	640.5	20.2	1,732.0	45.9	4,363.0
Panel 18	30.5	21.0	22.0	1.0	22.0	671.0	25.5	1,878.0	48.6	4,761.0
Panel 19	30.5	22.0	22.0	1.0	22.0	671.0	25.5	1,878.0	48.6	4,761.0
Panel 20	24.5	22.0	22.0	0.8	22.0	539.0	20.5	1,508.6	39.0	3,824.4
Panel 21	-	22.0	22.0	-	22.0	-	-	-	-	-
Panel 22	-	22.0	22.0	-	22.0	-	-	-	-	-
Panel 23	-	22.0	22.0	-	22.0	-	-	-	-	-
	604.0					9,048.5	269.3	21,238.6	618.8	54,258.4

Retaining Wall B										
Panel	Length	Height 1	Height 2	Factor	Height	Area (SF)	Spread Footing		Stem	
							Concrete	Rebar	Concrete	Rebar
Panel 1	30.5	5.0	6.0	1.0	6.0	183.0	5.8	469.0	11.0	1,062.0
Panel 2	30.5	6.0	8.0	1.0	7.0	213.5	6.2	553.0	13.0	1,191.0
Panel 3	30.5	8.0	9.0	1.0	9.0	274.5	7.0	586.0	17.1	1,407.0
Panel 4	30.5	9.0	10.0	1.0	10.0	305.0	7.5	602.0	19.3	1,516.0
Panel 5	30.5	10.0	11.0	1.0	11.0	335.5	8.0	692.0	21.4	1,706.0
Panel 6	30.5	11.0	12.0	1.0	12.0	366.0	8.7	719.0	23.7	1,943.0
Panel 7	30.5	12.0	13.0	1.0	13.0	396.5	9.4	746.0	26.0	2,076.0
Panel 8	30.5	13.0	14.0	1.0	14.0	427.0	10.1	842.0	28.3	2,233.0
Panel 9	30.5	14.0	16.0	1.0	15.0	457.5	10.9	874.0	30.7	2,358.0
Panel 10	30.5	16.0	17.0	1.0	17.0	518.5	14.0	1,108.0	35.6	2,890.0
Panel 11	30.5	17.0	18.0	1.0	18.0	549.0	16.4	1,216.0	38.1	3,250.0
Panel 12	30.5	18.0	19.0	1.0	19.0	579.5	17.4	1,391.0	40.6	3,467.0
Panel 13	30.5	19.0	20.0	1.0	20.0	610.0	19.1	1,508.0	43.2	4,097.0
Panel 14	30.5	20.0	21.0	1.0	21.0	640.5	20.2	1,732.0	45.9	4,363.0
Panel 15	30.5	21.0	22.0	1.0	22.0	671.0	25.5	1,878.0	48.6	4,761.0
Panel 16	30.5	22.0	22.0	1.0	22.0	671.0	25.5	1,878.0	48.6	4,761.0
Panel 17	15.0	22.0	22.0	0.5	22.0	330.0	12.5	923.6	23.9	2,341.5
Panel 18	-	22.0	22.0	-	22.0	-	-	-	-	-
Panel 19	-	22.0	22.0	-	22.0	-	-	-	-	-
Panel 20	-	22.0	22.0	-	22.0	-	-	-	-	-
Panel 21	-	22.0	22.0	-	22.0	-	-	-	-	-
Panel 22	-	22.0	22.0	-	22.0	-	-	-	-	-
Panel 23	-	22.0	22.0	-	22.0	-	-	-	-	-
	503.0					7,528.0	224.2	17,717.6	515.0	45,422.5

Retaining Wall C										
Panel	Length	Height 1	Height 2	Factor	Height	Area (SF)	Spread Footing		Stem	
							Concrete (CY)	Rebar (lb)	Concrete (CY)	Rebar (lb)
Panel 1	30.5	5.0	5.0	1.0	5.0	152.5	5.3	452.0	9.0	953.0
Panel 2	30.5	5.0	5.0	1.0	5.0	152.5	5.3	452.0	9.0	953.0
Panel 3	30.5	5.0	6.0	1.0	6.0	183.0	5.8	469.0	11.0	1,062.0
Panel 4	30.5	6.0	6.0	1.0	6.0	183.0	5.8	469.0	11.0	1,062.0
Panel 5	30.5	6.0	7.0	1.0	7.0	213.5	6.2	553.0	13.0	1,191.0
Panel 6	30.5	7.0	7.0	1.0	7.0	213.5	6.2	553.0	13.0	1,191.0
Panel 7	30.5	7.0	8.0	1.0	8.0	244.0	6.6	570.0	15.0	1,299.0
Panel 8	30.5	8.0	8.0	1.0	8.0	244.0	6.6	570.0	15.0	1,299.0
Panel 9	30.5	8.0	9.0	1.0	9.0	274.5	7.0	586.0	17.1	1,407.0
Panel 10	30.5	9.0	9.0	1.0	9.0	274.5	7.0	586.0	17.1	1,407.0
Panel 11	30.5	9.0	10.0	1.0	10.0	305.0	7.5	602.0	19.3	1,516.0
Panel 12	30.5	10.0	10.0	1.0	10.0	305.0	7.5	602.0	19.3	1,516.0
Panel 13	30.5	10.0	11.0	1.0	11.0	335.5	8.0	692.0	21.4	1,706.0
Panel 14	30.5	11.0	11.0	1.0	11.0	335.5	8.0	692.0	21.4	1,706.0
Panel 15	30.5	11.0	12.0	1.0	12.0	366.0	8.7	719.0	23.7	1,943.0
Panel 16	30.5	12.0	12.0	1.0	12.0	366.0	8.7	719.0	23.7	1,943.0
Panel 17	30.5	12.0	13.0	1.0	13.0	396.5	9.4	746.0	26.0	2,076.0
Panel 18	30.5	13.0	13.0	1.0	13.0	396.5	9.4	746.0	26.0	2,076.0
Panel 19	30.5	13.0	14.0	1.0	14.0	427.0	10.1	842.0	28.3	2,233.0
Panel 20	30.5	14.0	14.0	1.0	14.0	427.0	10.1	842.0	28.3	2,233.0
Panel 21	30.5	14.0	15.0	1.0	15.0	457.5	10.9	874.0	30.7	2,358.0
Panel 22	26.5	15.0	15.0	0.9	15.0	397.5	9.5	759.4	26.7	2,048.8
Panel 23	-	15.0	15.0	-	15.0	-	-	-	-	-
	667.0					6,650.0	169.6	14,095.4	425.0	35,178.8

Retaining Wall D										
Panel	Length	Height 1	Height 2	Factor	Height	Area (SF)	Spread Footing		Stem	
							Concrete (CY)	Rebar (lb)	Concrete (CY)	Rebar (lb)
Panel 1	30.5	5.0	6.0	1.0	6.0	183.0	5.8	469.0	11.0	1,062.0
Panel 2	30.5	6.0	7.0	1.0	7.0	213.5	6.2	553.0	13.0	1,191.0
Panel 3	30.5	7.0	8.0	1.0	8.0	244.0	6.6	570.0	15.0	1,299.0
Panel 4	30.5	8.0	9.0	1.0	9.0	274.5	7.0	586.0	17.1	1,407.0
Panel 5	30.5	9.0	10.0	1.0	10.0	305.0	7.5	602.0	19.3	1,516.0
Panel 6	30.5	10.0	10.0	1.0	10.0	305.0	7.5	602.0	19.3	1,516.0
Panel 7	30.5	10.0	11.0	1.0	11.0	335.5	8.0	692.0	21.4	1,706.0
Panel 8	30.5	11.0	12.0	1.0	12.0	366.0	8.7	719.0	23.7	1,943.0
Panel 9	30.5	12.0	12.0	1.0	12.0	366.0	8.7	719.0	23.7	1,943.0
Panel 10	30.5	12.0	13.0	1.0	13.0	396.5	9.4	746.0	26.0	2,076.0
Panel 11	30.5	13.0	13.0	1.0	13.0	396.5	9.4	746.0	26.0	2,076.0
Panel 12	30.5	13.0	14.0	1.0	14.0	427.0	10.1	842.0	28.3	2,233.0
Panel 13	30.5	14.0	14.0	1.0	14.0	427.0	10.1	842.0	28.3	2,233.0
Panel 14	30.5	14.0	15.0	1.0	15.0	457.5	10.9	874.0	30.7	2,358.0
Panel 15	30.5	15.0	16.0	1.0	16.0	488.0	13.1	975.0	33.1	2,587.0
Panel 16	30.5	16.0	17.0	1.0	17.0	518.5	14.0	1,108.0	35.6	2,890.0
Panel 17	30.5	17.0	18.0	1.0	18.0	549.0	16.4	1,216.0	38.1	3,250.0
Panel 18	30.5	18.0	19.0	1.0	19.0	579.5	17.4	1,391.0	40.6	3,467.0
Panel 19	2.0	19.0	20.0	0.1	20.0	40.0	1.3	98.9	2.8	268.7
Panel 20	-	20.0	20.0	-	20.0	-	-	-	-	-
Panel 21	-	20.0	20.0	-	20.0	-	-	-	-	-
Panel 22	-	20.0	20.0	-	20.0	-	-	-	-	-
Panel 23	-	20.0	20.0	-	20.0	-	-	-	-	-

	551.0				6,872.0	178.1	14,350.9	453.0	37,021.7
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Retaining Wall E										
Panel	Length	Height 1	Height 2	Factor	Height	Area (SF)	Spread Footing		Stem	
							Concrete (CY)	Rebar (lb)	Concrete (CY)	Rebar (lb)
Panel 1	30.5	5.0	5.0	1.0	5.0	152.5	5.3	452.0	9.0	953.0
Panel 2	30.5	5.0	5.0	1.0	5.0	152.5	5.3	452.0	9.0	953.0
Panel 3	30.5	5.0	5.0	1.0	5.0	152.5	5.3	452.0	9.0	953.0
Panel 4	30.5	5.0	5.0	1.0	5.0	152.5	5.3	452.0	9.0	953.0
Panel 5	30.5	5.0	5.0	1.0	5.0	152.5	5.3	452.0	9.0	953.0
Panel 6	30.5	5.0	5.0	1.0	5.0	152.5	5.3	452.0	9.0	953.0
Panel 7	30.5	5.0	5.0	1.0	5.0	152.5	5.3	452.0	9.0	953.0
Panel 8	30.5	5.0	5.0	1.0	5.0	152.5	5.3	452.0	9.0	953.0
Panel 9	30.5	5.0	5.0	1.0	5.0	152.5	5.3	452.0	9.0	953.0
Panel 10	30.5	5.0	5.0	1.0	5.0	152.5	5.3	452.0	9.0	953.0
Panel 11	30.5	5.0	5.0	1.0	5.0	152.5	5.3	452.0	9.0	953.0
Panel 12	1.5	5.0	5.0	0.0	5.0	7.5	0.3	22.2	0.4	46.9
Panel 13	-	5.0	14.0	-	10.0	-	-	-	-	-
Panel 14	-	14.0	15.0	-	15.0	-	-	-	-	-
Panel 15	-	15.0	16.0	-	16.0	-	-	-	-	-
Panel 16	-	16.0	17.0	-	17.0	-	-	-	-	-
Panel 17	-	17.0	18.0	-	18.0	-	-	-	-	-
Panel 18	-	18.0	19.0	-	19.0	-	-	-	-	-
Panel 19	-	19.0	20.0	-	20.0	-	-	-	-	-
Panel 20	-	20.0	20.0	-	20.0	-	-	-	-	-
Panel 21	-	20.0	20.0	-	20.0	-	-	-	-	-
Panel 22	-	20.0	20.0	-	20.0	-	-	-	-	-
Panel 23	-	20.0	20.0	-	20.0	-	-	-	-	-
	337.0					1,685.0	58.6	4,994.2	99.4	10,529.9