

**PUBLIC WORKS DEPARTMENT MEMORANDUM  
#42-2020**

**DATE:** December 21, 2020  
**TO:** Honorable Mayor Meredith Leighty and City Council Members  
**THROUGH:** Heather Geyer, City Manager *Hmg*  
**FROM:** Kent Kisselman, PE – Director of Public Works *FKK*  
**SUBJECT:** CR-187 – Lift Station A Replacement Project Guaranteed Maximum Price

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**PURPOSE**

To consider CR-187, a resolution to approve Amendment No. 1 to the contract with J.R. Filanc Construction Company (Filanc) for the construction of the Lift Station A Replacement Project. The amendment will accept the Guaranteed Maximum Price (GMP) for the project.

**BACKGROUND**

Lift Station A conveys sewage from the entire City to the Wastewater Treatment Plant and is the most critical lift station in Northglenn. Lift Station A has been planned for replacement for many years due to deteriorated conditions, pumps that have failed and are difficult to maintain, safety concerns for staff entering the “submarine” dry well that can leak and fill with sewage, and other concerns. Northglenn has already entered into contracts with an engineering consultant to design the proposed replacement, and these plans are 95% complete.

Northglenn has also signed a pre-construction services contract with Filanc to provide Construction Manager at Risk services for the lift station replacement, which allows for the development of this GMP request. This amendment will add the GMP to the Filanc contract, and allow the work to begin.

**STAFF RECOMMENDATION**

Staff requests a 2.5% owner’s contingency, based on cost of work only, be added to the project. Attached to this memorandum is CR-187, a resolution that, if approved, would authorize the Mayor to execute Amendment No. 1 to the contract between the City and J.R. Filanc Construction Company, Inc. for the Lift Station A Replacement project in an amount not to exceed \$9,944,664, and authorizes the City Manager, on behalf of the City, to approve changes in scope of services and execute relevant change orders up to the approved expenditure limit of \$10,159,842. Staff recommends approval of CR-187.

**BUDGET/TIME IMPLICATIONS**

This project is part of the Lift Station A and Force Main Project, which has a budget placeholder of \$27 million of future bond sales. The entire project is summarized in the table below. The Lift Station A portion is shown in bold and other specific projects will have their own resolutions.

DESCRIPTION	CONTRACT NUMBER	AMOUNT
<b>Lift Station A GMP including contractor's contingency and fee (J.R. Filanc Construction Company)</b>	<b>2020-061A</b>	<b>\$9,944,664</b>
<b>Lift Station A owner's contingency*</b>	<b>2020-061A</b>	<b>\$215,178</b>
Force Main A GMP including contractor's contingency and fee (BT Construction)	2020-062A	\$14,011,886
Force Main A owner's contingency*	2020-062A	\$264,875
WWTP odor mitigation engineer's estimate	TBD	\$2,200,000
<b>FINAL BONDING AMOUNT</b>		<b>\$26,636,603</b>

\* 2.5% owner's contingency is based on construction cost of work only

Construction on the Lift Station A Replacement Project is anticipated to begin this spring and last approximately 12 months.

**STAFF REFERENCE**

If Council members have any questions they may contact Director of Public Works Kent Kisselman at 303.450.4005 or [kkisselman@northglenn.org](mailto:kkisselman@northglenn.org).

**ATTACHMENT**

1. Public Works Department Memorandum #23-2020

CR-187 – Lift Station A Replacement Project Guaranteed Maximum Price  
 Amendment No. 1 to the Lift Station A Replacement Project contract

# ATTACHMENT 1

## PUBLIC WORKS DEPARTMENT MEMORANDUM #23-2020

**DATE:** July 13, 2020  
**TO:** Honorable Mayor Meredith Leighty and City Council Members  
**THROUGH:** Heather Geyer, City Manager *Hmg*  
**FROM:** Kent Kisselman, PE – Director of Public Works *KHK*  
**SUBJECT:** CR-103 – Lift Station A Replacement Project

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### PURPOSE

City Council is considering CR-103, a resolution to approve a preconstruction contract for the Lift Station A Replacement project which will utilize the Construction Manager at Risk (CMAR) contract delivery method.

### BACKGROUND

The Lift Station A and Force Main Improvements project is being divided into two CMAR contracts due to the complexity of work and the specialty construction required. The Public Works Engineering Division is seeking approval of these contracts, selected through RFP 2019-035, to provide preconstruction services for the Lift Station A and Force Main Replacement Project. This contract will provide for the selected CMAR contractors to collaborate with the design engineer (Providence Infrastructure Consultants, working under a separate contract), to provide a Guaranteed Maximum Price (GMP) for the two parts of this project. The GMP will then be added to each respective contract via a future amendment to fund the construction work.

The Lift Station A and Force Main Replacement project is divided as follows:

- J.R. Filanc Construction Company, Inc. is providing services for the preconstruction work related to the replacement of Lift Station A. The preconstruction cost for this contract is \$34,935.00, as proposed through CR-103.
- BT Construction, Inc. is providing services for the preconstruction work related to the replacement of Force Main A. The preconstruction cost for this contract is \$39,240.00, as proposed through CR-104.

### STAFF RECOMMENDATION

Attached to this memorandum is CR-103, a resolution that, if approved, would authorize the Mayor to execute a contract between the City of Northglenn and J.R. Filanc Construction Company, Inc. for the Lift Station A Replacement project in an amount not to exceed \$34,935.00. Staff recommends approval of CR-103.

### BUDGET/TIME IMPLICATIONS

As part of the RFP for this project, the selected CMAR contractors provided a non-binding cost opinion based on the 30% design drawings. These costs are shown in the table below. It is important to note that this preliminary number can and will change as the design progresses.

This project will be funded out of the Wastewater Fund through the issuance of Wastewater Revenue Bonds. The following table summarizes how the total project budget may look, based on the 30% non-binding cost opinions.

Lift Station A and Force Main Improvement Project Budget	\$28,000,000.00
Lift Station A Preconstruction Fee – Filanc	(\$34,935.00)
Lift Station A non-binding cost opinion, provided by Filanc	(\$7,082,045.00)
Force Main A Preconstruction Fee - BT Construction	(\$39,240.00)
Force Main A non-binding cost opinion, provided by BT Construction	(\$12,600,759.00)
Estimated Remaining Budget	\$8,243,021.00

Project timeline:

MILESTONE	TARGET DATE
CMAR Agreement(s) Approved	July 2020
60% Design Documents completed	July 2020
95% Design Documents completed	Friday, October 2, 2020
Owner receives Guaranteed Maximum Price Proposal(s)	Friday, November 13, 2020
Owner issues Notice to Proceed for Construction	Thursday, December 31, 2020
Substantial Completion of Construction	April 2022
Final Completion of Construction	May 2022

**STAFF REFERENCE**

If Council members have any comments or questions they may contact Kent Kisselman, Director of Public Works, at 303.450.4005, [kkisselman@northglenn.org](mailto:kkisselman@northglenn.org).

SPONSORED BY: MAYOR LEIGHTY

COUNCILMAN'S RESOLUTION

RESOLUTION NO.

No. CR-187  
Series of 2020

\_\_\_\_\_  
Series of 2020

A RESOLUTION APPROVING AMENDMENT NO. 1 TO THE CONTRACT BETWEEN THE CITY OF NORTHGLENN AND J.R. FILANC CONSTRUCTION COMPANY, INC. FOR THE LIFT STATION A REPLACEMENT PROJECT

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF NORTHGLENN, COLORADO, THAT:

Section 1. Amendment No. 1 to the contract between the City of Northglenn and J.R. Filanc Construction Company, Inc., attached hereto, in the amount of \$9,944,664.00, with an owner's contingency of \$215,178.00, for a total amount not to exceed \$10,159,842.00 for construction of the Lift Station A Replacement Project is hereby approved and the Mayor is authorized to execute same on behalf of the City of Northglenn.

DATED, at Northglenn, Colorado, this \_\_\_\_\_ day of \_\_\_\_\_, 2020.

\_\_\_\_\_  
MEREDITH LEIGHTY  
Mayor

ATTEST:

\_\_\_\_\_  
JOHANNA SMALL, CMC  
City Clerk

APPROVED AS TO FORM:

\_\_\_\_\_  
COREY Y. HOFFMANN  
City Attorney

CONTRACT AMENDMENT NO. 1  
Guaranteed Maximum Price Proposal  
Lift Station A – Project 2019-035

The Contract Amendment No. 1 (Amendment) is made and entered into on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by and between the City of Northglenn (hereafter referred to as the OWNER) and J.R. Filanc Construction Company, Inc. (hereafter referred to as the CONSTRUCTION MANAGER). This is an Amendment to the original contract between the same entities date the 13th day of July, 2020. All provisions of the original contract are included by reference as part of the Amendment. The paragraphs below are the adjustments, revisions or updates to the original Contract.

*ARTICLE 6. CONTRACT PRICE*

The following Sections of Article 6 of the original contract are amended to read as follows:

**6.6** The guaranteed Maximum Price (“GMP”). (Amended Sections)

**6.6.1 GMP** Established after Execution of the Original Contract.

**6.6.1.1.4** In this section amend the Cost Contingency amount to be 6% of the Cost of the Work.

**6.6.1.3 Acceptance of GMO Proposal.** If the Owner accepts the GMP Proposal, as may be amended by Construction Manager, in writing on or before the GMP Proposal Deadline, the GMP and its basis shall be set forth in an amendment to this Contract.

The GMP proposal accepted by the Owner for this project is for the amount of nine million nine hundred forty-four thousand six hundred sixty-four dollars (\$9,944,664). A summary of the GMP proposal, including Cover Letter, Table of contents and the Contract Price Summary is included as Exhibit 1A and the supporting documents of the entire GMP proposal by OWNER, dated November 24, 2020 become part of the Contract Documents are included to this Amendment by reference. (The Cover Sheet and Table of Contents for the drawings and specifications prepared by PROVIDENCE INFRASTRUCTURE CONSULTANTS, dated November 9, 2020 for the project are included in Exhibit 1B) The complete set of drawings and specifications prepared by PROVIDENCE INFRASTRUCTURE CONSULTANTS, dated November 9, 2020, which define the scope of the project and become part of the Contract Documents are hereby included to this Amendment No. 1 by reference.





**City of Northglenn**  
**Lift Station A Replacement**  
**95% Design Cost Model**

DIRECT COST - WORK ITEMS		December 2, 2020 Cost of Work	
1	Division 1	\$	978,228
2	Division 2	\$	1,993,817
3	Division 3	\$	1,230,012
4	Division 4	\$	-
5	Division 5	\$	132,077
6	Division 6	\$	-
7	Division 7	\$	-
8	Division 8	\$	114,147
9	Division 9	\$	321,473
10	Division 10	\$	-
11	Division 11	\$	980,510
12	Division 12	\$	-
13	Division 13	\$	-
14	Division 14	\$	-
15	Division 15	\$	291,284
16	Division 16	\$	2,331,871
Subtotal Direct Cost		\$	8,373,418
	Insurance	1.00%	\$ 99,447
	Bond (2 Year Warranty)	1.35%	\$ 134,253
<b>Subtotal Cost of Work</b>		<b>\$</b>	<b>8,607,118</b>
	Contingency	6.00%	\$ 516,427
	Contractor Fee	9.00%	\$ 821,119
<b>Total 95% Design Cost Model</b>		<b>\$</b>	<b>9,944,664</b>





Row	Bid Item	Work Code	Est. Item	Description	Takeoff Quantity	Grand Total Amount	Labor Hours	Labor Price	Labor Amount	Material Cost/Unit	Material Amount	Sub Cost/Unit	Sub Price	Sub Amount	Equip Price	Equip Amount	Other Amount
1	01	0		<b>Division 1</b>													
2	01	0		<b>GENERAL CONDITIONS</b>													
3	01	0	01.000	<b>General Conditions</b>													
4	01	0		<b>Prep Laydown Area</b>													
5	01	0		General Foreman	5.00 day	3,604	40	90.10/mh	3,604		0			0		0	0
6	01	0		Laborer #1	5.00 day	1,889	40	47.23/mh	1,889		0			0		0	0
7	01	0		Laborer #2	5.00 day	1,889	40	47.23/mh	1,889		0			0		0	0
8	01	0		Laborer #3	5.00 day	1,889	40	47.23/mh	1,889		0			0		0	0
9	01	0		Operating Engineer (backhoe) #1	5.00 day	2,774	40	69.35/mh	2,774		0			0		0	0
10	01	0		Backhoe #1 Day	5.00 day	1,596			0		0			0	319.20/day	1,596	0
11	01	0		Loader Cat 951 #1 Day	5.00 day	399			0		0			0	79.80/day	399	0
12	01	0		Tools #1 Day	5.00 day	137			0		0			0	27.36/day	137	0
13	01	0		Base Course - Ground Solutions	60.00 tn	975			0	16.25/tn	975			0		0	0
14	01	0		Additional Base Course - Ground Solutions	200.00 Tn	3,250			0	16.25/Tn	3,250			0		0	0
15	01	0		Haul off Grubbings	3.00 LDs	375			0		0	125.00/LDs	125.00	375		0	0
16	01	0		Reseed - Arnold's Ag Group, LLC	12,000.00 sf	1,800			0		0	0.15/sf	0.15	1,800		0	0
17	01	0		<b>Field Overhead - General Conditions Quick 1 LS -</b>													
18	01	0		Project Manager - Monthly Cost	12.00 Mo	292,470	2,076	132.50/mh	275,070	100.00/Mo	1,200			0	850.00/Mo	10,200	6,000
19	01	0		Scheduling Engineer - Lump Sum Cost	240.00 Hr	21,624	240	90.10/mh	21,624		0			0		0	0
20	01	0		Project Engineer 1 - Monthly Cost	12.00 Mo	195,850	2,076	94.34/mh	195,850		0			0		0	0
21	01	0		Bulletin Board	1.00 EA	85			0	85.00/EA	85			0		0	0
22	01	0		General Superintendent - Monthly Cost	12.00 Mo	255,060	2,076	114.48/mh	237,660	100.00/Mo	1,200			0	850.00/Mo	10,200	6,000
23	01	0		Field Office Trailer - Setup Costs - Lump Sum	1.00 LS	4,500			0	4,500.00/LS	4,500			0		0	0
24	01	0		Field Office Trailer for Filanc - Monthly Cost	12.00 Mo	18,000			0	1,000.00/Mo	12,000			0		0	6,000
25	01	0		Field Office Supplies for Filanc - Monthly Cost and Owner Outreach	12.00 Mo	8,600			0		0			0		0	8,600
26	01	0		Office Drinking Water - Monthly Cost	12.00 Mo	1,800			0	150.00/Mo	1,800			0		0	0
27	01	0		Construction Zone Fencing	1.00 LS	5,000			0		0	5,000.00/LS	5,000.00	5,000		0	0
28	01	0		Photos and Video - Lump Sum Cost	1.00 LS	2,500			0		0	2,500.00/LS	2,500.00	2,500		0	0
29	01	0		Small Tools and Hardware - Lump Sum Cost	1.00 LS	20,000			0		0			0		0	20,000
30	01	0		Drinking Water - Site - Monthly Cost	12.00 Mo	2,400			0		0			0		0	2,400
31	01	0		Construction Temporary Power - By Filanc - Monthly Cost	12.00 Mo	6,000			0	500.00/Mo	6,000			0		0	0
32	01	0		Sanitation - Septic Tanks - Monthly Cost	12.00 Mo	4,200			0		0			0		0	4,200
33	01	0		SWPPP Plan - Monthly Cost	12.00 Mo	7,120	60	68.67/mh	4,120		0			0		0	3,000
34	01	0		SWPPP Plan - Sub Cost	1.00 LS	500			0		500.00/LS	500.00	500	500		0	0
35	01	0		Rubbish - Monthly Cost	12.00 Mo	20,240	120	68.67/mh	8,240		0			0		0	12,000
36	01	0		Storage Containers	12.00 Mo	1,200			0		0			0	100.00/EA	1,200	0
37	01	0		Sublet Testing & Inspection - Soils Compaction	1.00 LS	15,000			0	15,000.00/LS	15,000			15,000		0	0
38	01	0		Engineering & Surveying - Lump Sum Cost	1.00 LS	15,000			0	15,000.00/LS	15,000			15,000		0	0
39	01	0		Startup - Power Costs	1.00 LS	10,000			0		0			0		0	10,000
40	01	0		Owner/Operator Training - Monthly Cost	0.50 Mo	9,294	87	90.10/hr	7,794		0	2,500.00/Mo	2,500.00	1,250		0	250
41	01	0		Covid Best Practices	1.00 LS	38,981	350	79.95/mh	27,981	10,000.00/LS	10,000			0	1,000.00/LS	1,000	0
42	02			<b>Division 2</b>													
43	02	01.		<b>Concrete</b>													
44	02	01.	02.035	<b>Excavate Wet Well</b>													
45	02	01.		<b>CLSM under slab</b>													
46	02	01.		CLSM - AG Industries	245.00 cy	25,725			0	105.00/cy	25,725			0		0	0
47	02	01.		Finish- Hard Trowel - Mat Foundation	2,394.00 sf	2,508	32	55.75/mh	1,756	0.20/sf	479			0	39.90/mh	273	0
48	02	01.		Concrete Pump 52 Meter (170') Boom Straight Time	245.00 cy	8,946			0		0	34.01/cy	350.00	8,333		0	613
49	02	02.		<b>Underground Pipe</b>													
50	02	02.	02.090	<b>Pipe and Valves</b>													
51	02	02.		<b>Yard Piping</b>													
52	02	02.		Ferguson	1.00 ls	214,493			0	214,493.00/ls	214,493			0		0	0
53	02	02.	02.200	<b>20" Drain from Overflow to Wetwell</b>													
54	02	02.		<b>Misc. Fittings</b>													
55	02	02.		<b>DI MJ Pipe 24" Change to 20" Dia.</b>	<b>100.00 lf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
56	02	02.		Ductile Iron Pipe Unload 24"	100.00 lf	109	2	175.90/hr	98		0			0	14.82/mh	7	4
57	02	02.		Ductile Iron Pipe String 24"	100.00 lf	614	10	175.90/hr	586		0			0	14.82/mh	19	9
58	02	02.		Ductile Iron Pipe Testing 24"	100.00 lf	1,056	15	210.09/hr	1,050		0			0		0	6
59	02	02.		DI Fitting 24" Bend 45, MJ	2.00 ea	1,458	25	175.90/hr	1,442		0			0	14.82/mh	7	9
60	02	02.		DI Pipe Cut 24"	4.00 ea	2,208	24	81.43/hr	1,954		0			0	153.90/mh	231	23
61	02	02.		Plug Valve, Manual IB 24"	2.00 ea	2,717	46	175.90/hr	2,698		0			0	14.82/mh	8	11
62	02	02.		DI MJ Acc Kit 24"	8.00 ea	1,991	22	81.43/hr	1,759		0			0	153.90/mh	205	27
63	02	02.		<b>Trenching D/L/B Pipeline - 24" Overflow Line</b>													
64	02	02.		Sub Haul & Dump Fee's (SEO)	7.00 ld	2,100			0		0	150.00/ld	150.00	1,050		0	1,050
65	02	02.		Pipeline Foreman	3.00 day	1,919	24	79.95/hr	1,919		0			0		0	0
66	02	02.		D/L/B 24" Pipe	100.00 lf	14,750	144	4,274.20/day	8,548		0			0	3,100.80/day	6,202	0
67	02	02.		Trench Spoil Haul Off Support (LE)	7.00 ld	177	1	69.34/hr	83		0			0	79.80/hr	95	0



Row	Bid Item	Work Code	Est. Item	Description	Takeoff Quantity	Grand Total Amount	Labor Hours	Labor Price	Labor Amount	Material Cost/Unit	Material Amount	Sub Cost/Unit	Sub Price	Sub Amount	Equip Price	Equip Amount	Other Amount
68	02	02.		Bedding Sand - Ground Solutions	18.89 tn	321			0	17.00 /tn	321			0		0	0
69	02	02.		Pipe Zone Material - Ground Solutions	113.33 tn	1,927			0	17.00 /tn	1,927			0		0	0
70	02	02.		<b>Excavation Rollup</b>	<b>251.85 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
71	02	02.		<b>Backfill Rollup</b>	<b>163.70 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
72	02	02.		Trench Box Trench Width 8Hx16Lx4W	1.00 ea	1,500		/ea	0		0			0	1.00 /week	1,500	0
73	02	02.		<b>Warning Tape</b>	<b>100.00 lf</b>	<b>0</b>			<b>0</b>	<b>/lf</b>	<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
74	02	02.		<b>Tracer Wire</b>	<b>100.00 lf</b>	<b>0</b>			<b>0</b>	<b>/lf</b>	<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
75	02	02.		Rock Bags (5'0" O.C.)	43.00 ea	516			0	10.00 /ea	430	2.00 /ea	2.00	86		0	0
76	02	02.	02.205	4" Drain from Bio filter to MH A-4													
77	02	02.		<b>DI Piping</b>													
78	02	02.		<b>DI MJ Pipe 4"</b>	<b>80.00 lf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
79	02	02.		DI Spool 4in x 5ft, Easy	1.00 ea	122	2	128.66 /hr	122		0			0	/mh	0	0
80	02	02.		Ductile Iron Pipe Unload 4"	80.00 lf	30	1	94.47 /hr	28		0			0	14.82 /mh	2	1
81	02	02.		Ductile Iron Pipe String 4"	80.00 lf	117	2	94.47 /hr	112		0			0	14.82 /mh	4	1
82	02	02.		Ductile Iron Pipe Testing 4"	80.00 lf	329	4	162.86 /hr	326		0			0		0	3
83	02	02.		DI Fitting 4" Bend 45, MJ	3.00 ea	183	2	81.43 /hr	181		0			0	14.82 /mh	1	1
84	02	02.		DI Fitting 4" Bend 90, MJ	1.00 ea	61	1	81.43 /hr	60		0			0	14.82 /mh	0	0
85	02	02.		DI Pipe Cut 4"	3.00 ea	288	3	81.43 /hr	244		0			0	153.90 /mh	38	5
86	02	02.		DI MJ Acc Kit 4"	6.00 ea	248	3	81.43 /hr	244		0			0	14.82 /mh	1	2
87	02	02.		<b>Trenching D/LB Pipeline</b>													
88	02	02.		Sub Haul & Dump Fee's (SEO)	1.25 ld	376			0		0	150.00 /ld	150.00	188	/ld	0	188
89	02	02.		Pipeline Foreman	1.00 day	640	8	79.95 /hr	640		0			0		0	0
90	02	02.		D/LB 4" Pipe	80.00 lf	7,375	72	4,274.20 /day	4,274		0			0	3,100.80 /day	3,101	0
91	02	02.		Trench Spoil Haul Off Support (LE)	1.25 ld	32	0	69.34 /hr	15		0			0	79.80 /hr	17	0
92	02	02.		Bedding Sand - Ground Solutions	6.67 tn	113			0	17.00 /tn	113			0		0	0
93	02	02.		Pipe Zone Material - Ground Solutions	17.78 tn	302			0	17.00 /tn	302			0		0	0
94	02	02.		<b>Excavation Rollup</b>	<b>71.11 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
95	02	02.		<b>Backfill Rollup</b>	<b>54.82 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
96	02	02.		Pot Hole - Standard	2.00 ea	626	8	116.58 /hr	466		0			0	39.90 /hr	160	0
97	02	02.		<b>Warning Tape</b>	<b>80.00 lf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
98	02	02.		<b>Tracer Wire</b>	<b>80.00 lf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
99	02	02.	02.210	14" FRP Line													
100	02	02.		<b>FRP Pipe</b>													
101	02	02.		Fiber Glass Systems	40.00 lf	37,860	63	101.79 /hr	5,089	789.13 /lf	31,565			0	64.13 /ch	1,028	178
102	02	02.		FRP Pipe Unload 14"	40.00 lf	13	0	94.47 /hr	12		0			0	14.82 /ch	1	0
103	02	02.		FRP Pipe String 14"	40.00 lf	162	3	175.90 /hr	156		0			0	14.82 /ch	4	2
104	02	02.		FRP Pipe Testing 14"	40.00 lf	123	1	162.86 /hr	122		0			0	/lf	0	2
105	02	02.		FRP 45 14"	2.00 ea	94	1	141.70 /hr	26		0			0	171.00 /ch	68	0
106	02	02.		FRP Tee 14"	1.00 ea	47	0	141.70 /hr	13		0			0	171.00 /ch	34	0
107	02	02.		FRP Reducer 14x12"	1.00 ea	47	0	141.70 /hr	13		0			0	171.00 /ch	34	0
108	02	02.	02.300	30" PVC Wet Well to MH A-1													
109	02	02.		Trench Box Trench Width 10Hx16Lx6W	1.00 Wk	1,500		/Wk	0		0			0	1,500.00 /week	1,500	0
110	02	02.		<b>Temp By-Pass to Install MH A-1</b>													
111	02	02.		General Foreman	1.00 day	721	8	90.10 /mh	721		0			0		0	0
112	02	02.		Pipe Fitter #1	1.00 day	651	8	81.43 /mh	651		0			0		0	0
113	02	02.		Pipe Fitter #2	1.00 day	651	8	81.43 /mh	651		0			0		0	0
114	02	02.		Laborer #1	1.00 day	378	8	47.23 /mh	378		0			0		0	0
115	02	02.		Laborer #2	1.00 day	378	8	47.23 /mh	378		0			0		0	0
116	02	02.		Laborer #3	1.00 day	378	8	47.23 /mh	378		0			0		0	0
117	02	02.		Velocity (2 wk rent, setup & tear down, freight charges)	1.00 ls	16,825			0		0	16,825.00 /ls	16,825.00	16,825		0	0
118	02	02.		Traffic Control Sub	1.00 ls	2,500			0		0	2,500.00 /ls	2,500.00	2,500		0	0
119	02	02.		<b>Subcontractor #3</b>	<b>1.00 ls</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
120	02	02.		<b>Manhole 6' Dia</b>													
121	02	02.		Lindsay Precast	2.00 ea	12,357			0	5,345.00 /ea	10,690			0		0	1,667
122	02	02.		<b>Manhole 6ft Riser Included above</b>	<b>26.00 vf</b>	<b>0</b>			<b>0</b>	<b>/vf</b>	<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
123	02	02.		Manhole 6ft Riser Coating	26.00 vf	15,600			0	600.00 /vf	15,600			0		0	0
124	02	02.		Manhole 6ft Grade Ring	4.00 ea	260			0	65.00 /ea	260			0		0	0
125	02	02.		Manhole Install	2.00 ea	2,845	56	47.23 /mh	2,645	100.00 /ea	200			0		0	0
126	02	02.		<b>Manhole Cover Generic</b>	<b>2.00 ea</b>	<b>0</b>			<b>0</b>	<b>/ea</b>	<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
127	02	02.		Manhole Cover Install	2.00 ea	840	8	79.95 /mh	640	100.00 /ea	200			0		0	0
128	02	02.		<b>Manhole 8' Dia</b>													
129	02	02.		Lindsay Precast	2.00 ea	26,339			0	12,336.00 /ea	24,672			0		0	1,667
130	02	02.		<b>Manhole 8ft Riser Included above</b>	<b>26.00 vf</b>	<b>0</b>			<b>0</b>	<b>/vf</b>	<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
131	02	02.		Manhole 8ft Riser Coating	26.00 vf	23,400			0	900.00 /vf	23,400			0		0	0
132	02	02.		Manhole 8ft Grade Ring	4.00 ea	260			0	65.00 /ea	260			0		0	0
133	02	02.		Manhole Install	2.00 ea	2,845	56	47.23 /mh	2,645	100.00 /ea	200			0		0	0
134	02	02.															



Row	Bid Item	Work Code	Est. Item	Description	Takeoff Quantity	Grand Total Amount	Labor Hours	Labor Price	Labor Amount	Material Cost/Unit	Material Amount	Sub Cost/Unit	Sub Price	Sub Amount	Equip Price	Equip Amount	Other Amount
135	02	02.		<b>Manhole Cover Generic</b>	<b>2.00 ea</b>	<b>0</b>			<b>0</b>	<b>/ea</b>	<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
136	02	02.		Manhole Cover Install	2.00 ea	840	8	79.95 /mh	640	100.00 /ea	200			0		0	0
137	02	02.		<b>Trenching D/L/B Pipeline</b>													
138	02	02.		Sub Haul & Dump Fee's (SEO)	16.41 /ld	4,923			0			150.00 /ld	150.00	2,462	/ld	0	2,462
139	02	02.		Pipeline Foreman	4.80 /day	3,070	38	79.95 /hr	3,070					0			0
140	02	02.		D/L/B 30" Pipe	240.00 /lf	51,000	346	4,274.20 /day	20,516	65.00 /lf	15,600			0	3,100.80 /day	14,884	0
141	02	02.		Trench Spoil Haul Off Support (LE)	16.41 /ld	416	3	69.34 /hr	193					0	79.80 /hr	223	0
142	02	02.		Bedding Sand - Ground Solutions	40.00 /tn	680			0	17.00 /tn	680			0			0
143	02	02.		Pipe Zone Material - Ground Solutions	280.00 /tn	4,760			0	17.00 /tn	4,760			0			0
144	02	02.		<b>Excavation Rollup</b>	<b>746.67 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
145	02	02.		<b>Backfill Rollup</b>	<b>533.33 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
146	02	02.		Pot Hole - Hard	9.00 /ea	4,225	54	116.58 /hr	3,148					0	39.90 /hr	1,077	0
147	02	02.		Trench Box Trench Width 10Hx16Lx6W	1.00 /Wk	1,500			0					0	1,500.00 /week	1,500	0
148	02	02.		<b>Warning Tape</b>	<b>240.00 /f</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
149	02	02.		<b>Tracer Wire</b>	<b>240.00 /f</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
150	02	02.		Rock Bags (5'0" O.C.)	60.00 /ea	120			0			2.00 /ea	2.00	120		0	0
151	02	02.	02.305	<b>15" PVC SAS MH b-1 to A-2</b>													
152	02	02.		<b>Temp By-Pass to Install MH B-1</b>													
153	02	02.		General Foreman	1.00 /day	721	8	90.10 /mh	721		0			0			0
154	02	02.		Pipe Fitter #1	1.00 /day	651	8	81.43 /mh	651		0			0			0
155	02	02.		Pipe Fitter #2	1.00 /day	651	8	81.43 /mh	651		0			0			0
156	02	02.		Laborer #1	1.00 /day	378	8	47.23 /mh	378		0			0			0
157	02	02.		Laborer #2	1.00 /day	378	8	47.23 /mh	378		0			0			0
158	02	02.		Laborer #3	1.00 /day	378	8	47.23 /mh	378		0			0			0
159	02	02.		Velocity (2 wk rent, setup & tear down, freight charges)	1.00 /ls	11,705			0			11,705.00 /ls	11,705.00	11,705			0
160	02	02.		Traffic Control Sub	1.00 /ls	2,500			0			2,500.00 /ls	2,500.00	2,500			0
161	02	02.		<b>Subcontractor #3</b>	<b>1.00 /s</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
162	02	02.		<b>Manhole 4' Dia</b>													
163	02	02.		Lindsay Precast	1.00 /ea	3,895			0	3,060.00 /ea	3,060			0			835
164	02	02.		<b>Manhole 6ft Riser Included above</b>	<b>13.00 /vf</b>	<b>0</b>			<b>0</b>	<b>/vf</b>	<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
165	02	02.		Manhole 6ft Riser Coating	13.00 /vf	5,850			0	450.00 /vf	5,850			0			0
166	02	02.		Manhole 6ft Grade Ring	2.00 /ea	130			0	65.00 /ea	130			0			0
167	02	02.		Manhole Install	1.00 /ea	1,423	28	47.23 /mh	1,323	100.00 /ea	100			0			0
168	02	02.		<b>Manhole Cover Generic</b>	<b>1.00 ea</b>	<b>0</b>			<b>0</b>	<b>/ea</b>	<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
169	02	02.		Manhole Cover Install	1.00 /ea	420	4	79.95 /mh	320	100.00 /ea	100			0			0
170	02	02.		<b>Trenching D/L/B Pipeline</b>													
171	02	02.		Sub Haul & Dump Fee's (SEO)	0.94 /ld	282			0			150.00 /ld	150.00	141	/ld	0	141
172	02	02.		Pipeline Foreman	2.00 /day	1,279	16	79.95 /hr	1,279		0			0			0
173	02	02.		D/L/B 16" Pipe	20.00 /lf	5,900	58	4,274.20 /day	3,419		0			0	3,100.80 /day	2,481	0
174	02	02.		Trench Spoil Haul Off Support (LE)	0.94 /ld	24	0	69.34 /hr	11		0			0	79.80 /hr	13	0
175	02	02.		Bedding Sand - Ground Solutions	3.33 /tn	57			0	17.00 /tn	57			0			0
176	02	02.		Pipe Zone Material - Ground Solutions	15.00 /tn	255			0	17.00 /tn	255			0			0
177	02	02.		<b>Excavation Rollup</b>	<b>57.78 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
178	02	02.		<b>Backfill Rollup</b>	<b>45.56 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
179	02	02.		Trench Box Trench Width 8Hx16Lx4W	1.00 /Wk	1,500			0					0	1,500.00 /week	1,500	0
180	02	02.		<b>Warning Tape</b>	<b>20.00 /f</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
181	02	02.		<b>Tracer Wire</b>	<b>20.00 /f</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
182	02	02.		Rock Bags (5'0" O.C.)	5.00 /ea	10			0			2.00 /ea	2.00	10		0	0
183	02	02.	02.310	<b>12" PVC SAS MH C-1 to A-3</b>													
184	02	02.		<b>Temp By-Pass to Install MH C-1</b>													
185	02	02.		General Foreman	1.00 /day	721	8	90.10 /mh	721		0			0			0
186	02	02.		Pipe Fitter #1	1.00 /day	651	8	81.43 /mh	651		0			0			0
187	02	02.		Pipe Fitter #2	1.00 /day	651	8	81.43 /mh	651		0			0			0
188	02	02.		Laborer #1	1.00 /day	378	8	47.23 /mh	378		0			0			0
189	02	02.		Laborer #2	1.00 /day	378	8	47.23 /mh	378		0			0			0
190	02	02.		Laborer #3	1.00 /day	378	8	47.23 /mh	378		0			0			0
191	02	02.		Velocity (2 wk rent, setup & tear down, freight charges)	1.00 /ls	9,959			0			9,959.00 /ls	9,959.00	9,959			0
192	02	02.		<b>Subcontractor #3</b>	<b>1.00 /s</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
193	02	02.		<b>Manhole 4' Dia</b>													
194	02	02.		Lindsay Precast	1.00 /ea	3,895			0	3,060.00 /ea	3,060			0			835
195	02	02.		<b>Manhole 6ft Riser Included Above</b>	<b>13.00 /vf</b>	<b>0</b>			<b>0</b>	<b>/vf</b>	<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
196	02	02.		Manhole 6ft Riser Coating	13.00 /vf	5,850			0	450.00 /vf	5,850			0			0
197	02	02.		Manhole 6ft Grade Ring	2.00 /ea	130			0	65.00 /ea	130			0			0
198	02	02.		Manhole Install	1.00 /ea	1,423	28	47.23 /mh	1,323	100.00 /ea	100			0			0
199	02	02.		<b>Manhole Cover Generic</b>	<b>1.00 ea</b>	<b>0</b>			<b>0</b>	<b>/ea</b>	<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
200	02	02.		Manhole Cover Install	1.00 /ea	420	4	79.95 /mh	320	100.00 /ea	100			0			0
201	02	02.		<b>Trenching D/L/B Pipeline</b>													



Row	Bid Item	Work Code	Est. Item	Description	Takeoff Quantity	Grand Total Amount	Labor Hours	Labor Price	Labor Amount	Material Cost/Unit	Material Amount	Sub Cost/Unit	Sub Price	Sub Amount	Equip Price	Equip Amount	Other Amount
202	02	02.		Sub Haul & Dump Fee's (SEO)	0.94 /ld	282			0		0	150.00 /ld	150.00	141		0	141
203	02	02.		Pipeline Foreman	2.00 /day	1,279	16	79.95 /hr	1,279		0			0		0	0
204	02	02.		D/L/B 16" Pipe	20.00 /lf	5,900	58	4,274.20 /day	3,419	/lf	0			0	3,100.80 /day		2,481
205	02	02.		Trench Spoil Haul Off Support (LE)	0.94 /ld	24	0	69.34 /hr	11		0			0	79.80 /hr		13
206	02	02.		Bedding Sand - Ground Solutions	3.33 /tn	57			0	17.00 /tn	57			0			0
207	02	02.		Pipe Zone Material - Ground Solutions	15.00 /tn	255			0	17.00 /tn	255			0			0
208	02	02.		<b>Excavation Rollup</b>	<b>57.78 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>			<b>0</b>
209	02	02.		<b>Backfill Rollup</b>	<b>45.56 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>			<b>0</b>
210	02	02.		Trench Box Trench Width 8Hx16Lx4W	1.00 /Wk	1,500		/Wk	0		0			0	1,500.00 /week		1,500
211	02	02.		<b>Warning Tape</b>	<b>20.00 lf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>			<b>0</b>
212	02	02.		<b>Tracer Wire</b>	<b>20.00 lf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>			<b>0</b>
213	02	02.		Rock Bags (5'0" O.C.)	5.00 /ea	10			0		0	2.00 /ea	2.00	10			0
214	02	02.	02.315	<b>6" Drain Line</b>													
215	02	02.		<b>6" Drain Line Misc. Materials</b>													
216	02	02.		PVC Pipe 6"	40.00 /lf	389	4	81.43 /hr	317		0			0	153.90 /mh		64
217	02	02.		Plastic Pipe Unload 6"	40.00 /lf	13	0	94.47 /hr	12		0			0	14.82 /ch		1
218	02	02.		Plastic Pipe String 6"	40.00 /lf	28	1	94.47 /hr	26		0			0	14.82 /ch		2
219	02	02.		Plastic Pipe Testing 6"	40.00 /lf	123	1	162.86 /hr	122		0			0	/lf		2
220	02	02.		PVC Bend 45 6"	1.00 /ea	5	0	81.43 /hr	5		0			0	14.82 /mh		0
221	02	02.		PVC Tee 6"	1.00 /ea	5	0	81.43 /hr	5		0			0	14.82 /mh		0
222	02	02.		Plastic Pipe Cut 6"	3.00 /ea	159	1	175.90 /hr	53		0			0	171.00 /ch		103
223	02	02.		Plastic Pipe Cut 6"	2.00 /ea	106	1	175.90 /hr	35		0			0	171.00 /ch		68
224	02	02.		Plastic Pipe Solvent Weld 6"	5.00 /ea	42	1	105.05 /hr	41		0			0	14.82 /mh		1
225	02	02.		Sleeve / Cast In 6"	1.00 /ea	17	0	81.43 /hr	16		0			0	14.82 /mh		0
226	02	02.		<b>Trenching D/L/B Pipeline - 6" PVC Drain</b>													
227	02	02.		Sub Haul & Dump Fee's (SEO)	1.00 /ld	300			0		0	150.00 /ld	150.00	150		0	150
228	02	02.		Pipeline Foreman	1.00 /day	640	8	79.95 /hr	640		0			0			0
229	02	02.		D/L/B 6" Pipe	40.00 /lf	7,375	72	4,274.20 /day	4,274		0			0	3,100.80 /day		3,101
230	02	02.		Trench Spoil Haul Off Support (LE)	1.00 /ld	25	0	69.34 /hr	12		0			0	79.80 /hr		14
231	02	02.		Bedding Sand - Ground Solutions	4.44 /tn	76			0	17.00 /tn	76			0			0
232	02	02.		Pipe Zone Material - Ground Solutions	13.33 /tn	227			0	17.00 /tn	227			0			0
233	02	02.		<b>Excavation Rollup</b>	<b>88.89 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>			<b>0</b>
234	02	02.		<b>Backfill Rollup</b>	<b>77.04 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>			<b>0</b>
235	02	02.		Trench Box Trench Width 8Hx16Lx4W	1.00 /ea	1,840		/ea	0		0			0	10.00 /week		1,840
236	02	02.		<b>Warning Tape</b>	<b>40.00 lf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>			<b>0</b>
237	02	02.		<b>Tracer Wire</b>	<b>40.00 lf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>			<b>0</b>
238	02	02.		Rock Bags (5'0" O.C.)	10.00 /ea	20			0		0	2.00 /ea	2.00	20			0
239	02	02.	02.320	<b>24" PVC SAS Exstg MH (OFS) to A-4</b>													
240	02	02.															
241	02	02.		Trench Box Trench Width 8Hx16Lx4W	6.00 /ea	1,104		/ea	0		0			0	1.00 /week		1,104
242	02	02.		Trench Box Trench Width 8Hx16Lx4W	6.00 /ea	1,104		/ea	0		0			0	1.00 /week		1,104
243	02	02.		<b>24" Existing to A-4 Misc.</b>													
244	02	02.		Plastic Pipe Unload 24"	40.00 /lf	13	0	94.47 /hr	12		0			0	14.82 /ch		1
245	02	02.		Plastic Pipe String 24"	40.00 /lf	261	4	175.90 /hr	251		0			0	14.82 /ch		6
246	02	02.		Plastic Pipe Testing 24"	40.00 /lf	159	2	210.09 /hr	157		0			0	/lf		2
247	02	02.		Plastic Pipe Cut 24"	1.00 /ea	130	1	141.70 /hr	27		0			0	171.00 /ch		99
248	02	02.		<b>Trenching D/L/B Pipeline 24"</b>													
249	02	02.		Sub Haul & Dump Fee's (SEO)	2.00 /ld	600			0		0	150.00 /ld	150.00	300		0	300
250	02	02.		Pipeline Foreman	2.00 /day	1,279	16	79.95 /hr	1,279		0			0			0
251	02	02.		D/L/B 24" Pipe	40.00 /lf	14,750	144	4,274.20 /day	8,548	/lf	0			0	3,100.80 /day		6,202
252	02	02.		Trench Spoil Haul Off Support (LE)	2.00 /ld	51	0	69.34 /hr	24		0			0	79.80 /hr		27
253	02	02.		Bedding Sand - Ground Solutions	4.44 /tn	76			0	17.00 /tn	76			0			0
254	02	02.		Pipe Zone Material - Ground Solutions	26.67 /tn	453			0	17.00 /tn	453			0			0
255	02	02.		<b>Excavation Rollup</b>	<b>88.89 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>			<b>0</b>
256	02	02.		<b>Backfill Rollup</b>	<b>68.15 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>			<b>0</b>
257	02	02.		Trench Box Trench Width 8Hx16Lx4W	6.00 /ea	1,104		/ea	0		0			0	1.00 /week		1,104
258	02	02.		<b>Warning Tape</b>	<b>40.00 lf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>			<b>0</b>
259	02	02.		<b>Tracer Wire</b>	<b>40.00 lf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>			<b>0</b>
260	02	02.		Rock Bags (5'0" O.C.)	10.00 /ea	20			0		0	2.00 /ea	2.00	20			0
261	02	02.	02.325	<b>12" Drain Meter Vault to MH A-4</b>													
262	02	02.		<b>DI Piping</b>													
263	02	02.		<b>DI MJ Pipe 12"</b>	<b>60.00 lf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>			<b>0</b>
264	02	02.		Ductile Iron Pipe Unload 12"	60.00 /lf	24	0	94.47 /hr	21		0			0	14.82 /mh		2
265	02	02.		Ductile Iron Pipe String 12"	60.00 /lf	91	2	94.47 /hr	84		0			0	14.82 /mh		6
266	02	02.		Ductile Iron Pipe Testing 12"	60.00 /lf	247	3	162.86 /hr	244		0			0			2
267	02	02.		DI Fitting 12" Bend 45, MJ	1.00 /ea	166	2	81.43 /hr	156		0			0	153.90 /mh		9
268	02	02.		DI MJ Acc Kit 12" Mrga Lug	2.00 /ea	231	3	81.43 /hr	228		0			0	14.82 /mh		1



Row	Bid Item	Work Code	Est. Item	Description	Takeoff Quantity	Grand Total Amount	Labor Hours	Labor Price	Labor Amount	Material Cost/Unit	Material Amount	Sub Cost/Unit	Sub Price	Sub Amount	Equip Price	Equip Amount	Other Amount
269	02	02.		<b>Trenching D/L/B Pipeline</b>													
270	02	02.		Sub Haul & Dump Fee's (SEO)	2.56 /ld	769			0			150.00 /ld	150.00	385		0	385
271	02	02.		Pipeline Foreman	2.00 /day	1,279	16	79.95 /hr	1,279					0		0	0
272	02	02.		D/L/B 12" Pipe	60.00 /lf	8,850	86	4,274.20 /day	5,129					0	3,100.80 /day		3,721
273	02	02.		Trench Spoil Haul Off Support (LE)	2.56 /ld	65	0	69.34 /hr	30					0	79.80 /hr		35
274	02	02.		Bedding Sand - Ground Solutions	10.00 /tn	170			0	17.00 /tn	170			0			0
275	02	02.		Pipe Zone Material - Ground Solutions	40.00 /tn	680			0	17.00 /tn	680			0			0
276	02	02.		<b>Excavation Rollup</b>	<b>173.33 cy</b>	<b>0</b>			<b>0</b>					<b>0</b>			<b>0</b>
277	02	02.		<b>Backfill Rollup</b>	<b>140.00 cy</b>	<b>0</b>			<b>0</b>					<b>0</b>			<b>0</b>
278	02	02.		Trench Box Trench Width 8Hx16Lx4W	60.00 /ea	1,440		/ea	0					0	1.00 /week		1,440
279	02	02.		<b>Warning Tape</b>	<b>60.00 lf</b>	<b>0</b>			<b>0</b>					<b>//f</b>			<b>0</b>
280	02	02.		<b>Tracer Wire</b>	<b>60.00 lf</b>	<b>0</b>			<b>0</b>					<b>//f</b>			<b>0</b>
281	02	02.		Rock Bags (50" O.C.)	15.00 /ea	30			0			2.00 /ea	2.00	30			0
282	02	02.	02.330	<b>8" Waterline Relocation</b>													
283	02	02.		<b>8" Waterline Misc. Materials</b>													
284	02	02.		<b>DI MJ Pipe 8"</b>	<b>180.00 lf</b>	<b>0</b>			<b>0</b>					<b>0</b>			<b>0</b>
285	02	02.		Ductile Iron Pipe Unload 8"	80.00 /lf	31	1	94.47 /hr	28					0	14.82 /mh	2	1
286	02	02.		Ductile Iron Pipe String 8"	80.00 /lf	120	2	94.47 /hr	112					0	14.82 /mh	6	2
287	02	02.		Ductile Iron Pipe Testing 8"	80.00 /lf	329	4	162.86 /hr	326					0		0	3
288	02	02.		DI Fitting 8" Bend 45, MJ	2.00 /ea	220	3	81.43 /hr	218					0	14.82 /mh	1	1
289	02	02.		DI Fitting 8" Bend 90, MJ	1.00 /ea	110	1	81.43 /hr	109					0	14.82 /mh	0	0
290	02	02.		DI Fitting 8x6" Reducing Tee, MJ	1.00 /ea	138	2	81.43 /hr	137					0	14.82 /mh	0	0
291	02	02.		DI Fitting 8" Wye, MJ	2.00 /ea	313	4	81.43 /hr	311					0	14.82 /mh	1	1
292	02	02.		DI Pipe Cut 8"	4.00 /ea	750	8	81.43 /hr	651					0	153.90 /mh	87	11
293	02	02.		IB Misc Valve 8"	1.00 /ea	234	3	81.43 /hr	234					0	14.82 /mh	0	0
294	02	02.		DI MJ Acc Kit 8"	10.00 /ea	742	9	81.43 /hr	733					0	14.82 /mh	4	5
295	02	02.		<b>Trenching D/L/B Pipeline 8" WL Relocaton</b>													
296	02	02.		Sub Haul & Dump Fee's (SEO)	4.00 /ld	1,200			0			150.00 /ld	150.00	600		0	600
297	02	02.		Pipeline Foreman	3.00 /day	1,919	24	79.95 /hr	1,919					0		0	0
298	02	02.		D/L/B 8" Pipe	180.00 /lf	17,700	173	4,274.20 /day	10,258					0	3,100.80 /day		7,442
299	02	02.		Trench Spoil Haul Off Support (LE)	4.00 /ld	101	1	69.34 /hr	47					0	79.80 /hr		54
300	02	02.		Bedding Sand - Ground Solutions	8.89 /tn	151			0	17.00 /tn	151			0			0
301	02	02.		Pipe Zone Material - Ground Solutions	29.63 /tn	504			0	17.00 /tn	504			0			0
302	02	02.		<b>Excavation Rollup</b>	<b>118.52 cy</b>	<b>0</b>			<b>0</b>					<b>0</b>			<b>0</b>
303	02	02.		<b>Backfill Rollup</b>	<b>92.84 cy</b>	<b>0</b>			<b>0</b>					<b>0</b>			<b>0</b>
304	02	02.		<b>Warning Tape</b>	<b>180.00 lf</b>	<b>0</b>			<b>0</b>					<b>//f</b>			<b>0</b>
305	02	02.		<b>Tracer Wire</b>	<b>180.00 lf</b>	<b>0</b>			<b>0</b>					<b>//f</b>			<b>0</b>
306	02	02.		Rock Bags (50" O.C.)	45.00 /ea	90			0			2.00 /ea	2.00	90			0
307	02	02.	02.335	<b>6" Waterline and Fire Hydrant</b>													
308	02	02.		<b>Pipe and Valves</b>													
309	02	02.		<b>DI MJ Pipe 6"</b>	<b>100.00 lf</b>	<b>0</b>			<b>0</b>					<b>0</b>			<b>0</b>
310	02	02.		Fire Hydrant	1.00 /ea	270	4	128.66 /hr	270					0		0	0
311	02	02.		Ductile Iron Pipe Unload 6"	100.00 /lf	39	1	94.47 /hr	35					0	14.82 /mh	3	1
312	02	02.		Ductile Iron Pipe String 6"	100.00 /lf	150	3	94.47 /hr	140					0	14.82 /mh	7	3
313	02	02.		Ductile Iron Pipe Testing 6"	100.00 /lf	411	5	162.86 /hr	407					0		0	4
314	02	02.		DI Fitting 6" Bend 45, MJ	1.00 /ea	84	1	81.43 /hr	83					0	14.82 /mh	0	0
315	02	02.		DI Pipe Cut 6"	3.00 /ea	432	5	81.43 /hr	366					0	153.90 /mh	58	8
316	02	02.		IB Misc Valve 6"	1.00 /ea	198	2	81.43 /hr	197					0	14.82 /mh	0	0
317	02	02.		DI MJ Acc Kit 6"	5.00 /ea	289	4	81.43 /hr	285					0	14.82 /mh	2	3
318	02	02.		<b>Trenching D/L/B Pipeline</b>													
319	02	02.		Sub Haul & Dump Fee's (SEO)	1.71 /ld	513			0			150.00 /ld	150.00	256		0	256
320	02	02.		Pipeline Foreman	2.00 /day	1,279	16	79.95 /hr	1,279					0		0	0
321	02	02.		D/L/B 6" Pipe	100.00 /lf	9,833	96	4,274.20 /day	5,699					0	3,100.80 /day		4,134
322	02	02.		Trench Spoil Haul Off Support (LE)	1.71 /ld	43	0	69.34 /hr	20					0	79.80 /hr		23
323	02	02.		Bedding Sand - Ground Solutions	8.33 /tn	142			0	17.00 /tn	142			0			0
324	02	02.		Pipe Zone Material - Ground Solutions	25.00 /tn	425			0	17.00 /tn	425			0			0
325	02	02.		<b>Excavation Rollup</b>	<b>88.89 cy</b>	<b>0</b>			<b>0</b>					<b>0</b>			<b>0</b>
326	02	02.		<b>Backfill Rollup</b>	<b>66.67 cy</b>	<b>0</b>			<b>0</b>					<b>0</b>			<b>0</b>
327	02	02.		Pot Hole - Standard	2.00 /ea	626	8	116.58 /hr	466					0	39.90 /hr		160
328	02	02.		<b>Warning Tape</b>	<b>100.00 lf</b>	<b>0</b>			<b>0</b>					<b>//f</b>			<b>0</b>
329	02	02.		<b>Tracer Wire</b>	<b>100.00 lf</b>	<b>0</b>			<b>0</b>					<b>//f</b>			<b>0</b>
330	02	02.		Rock Bags (50" O.C.)	25.00 /ea	50			0			2.00 /ea	2.00	50			0
331	02	02.	02.340	<b>3/4" BX Line</b>													
332	02	02.		<b>Plastic Piping</b>													
333	02	02.		CPVC Pipe 3/4"	40.00 /lf	135	1	81.43 /hr	110					0	153.90 /mh	22	3
334	02	02.		Plastic Pipe Unload 3/4"	40.00 /lf	8	0	94.47 /hr	7					0	14.82 /ch	1	0
335	02	02.		Plastic Pipe String 3/4"	40.00 /lf	20	0	94.47 /hr	18					0	14.82 /ch	1	0



Row	Bid Item	Work Code	Est. Item	Description	Takeoff Quantity	Grand Total Amount	Labor Hours	Labor Price	Labor Amount	Material Cost/Unit	Material Amount	Sub Cost/Unit	Sub Price	Sub Amount	Equip Price	Equip Amount	Other Amount
336	02	02.		Plastic Pipe Testing 3/4"	40.00 lf	98	1	128.66 /hr	96		0			0	/lf	0	2
337	02	02.		CPVC Bend 45 3/4"	1.00 ea	1	0	81.43 /hr	1		0			0	14.82 /mh	0	0
338	02	02.		CPVC Bend 90 3/4"	2.00 ea	2	0	81.43 /hr	2		0			0	14.82 /mh	0	0
339	02	02.		CPVC Tee 3/4"	1.00 ea	1	0	81.43 /hr	1		0			0	14.82 /mh	0	0
340	02	02.		CPVC Coupling 3/4"	1.00 ea	1	0	81.43 /hr	1		0			0	14.82 /mh	0	0
341	02	02.		Plastic Pipe Cut 3/4"	5.00 ea	12	0	81.43 /hr	12		0			0	14.82 /mh	0	0
342	02	02.		Plastic Pipe Solvent Weld 3/4"	11.00 ea	9	0	81.43 /hr	9		0			0	14.82 /mh	0	0
343	02	02.		CPVC Ball Valve 3/4"	2.00 ea	56	1	81.43 /hr	54		0			0	14.82 /mh	1	1
344	02	02.		CPVC Misc Valve 3/4"	1.00 ea	41	1	81.43 /hr	41		0			0	14.82 /mh	0	0
345	02	02.		Sleeve / Cast In 3/4"	1.00 ea	2	0	81.43 /hr	2		0			0	14.82 /mh	0	0
346	02	02.		<b>Trenching D/L/B Pipeline</b>													
347	02	02.		Sub Haul & Dump Fee's (SEO)	0.63 ld	188			0		150.00 /ld	150.00		94	/ld	0	94
348	02	02.		Pipeline Foreman	0.50 day	320	4	79.95 /hr	320		0			0		0	0
349	02	02.		D/L/B 4" Pipe	40.00 lf	3,688	36	4,274.20 /day	2,137		0		3,100.80		/day	1,550	0
350	02	02.		Trench Spoil Haul Off Support (LE)	0.63 ld	16	0	69.34 /hr	7		0			0	79.80 /hr	9	0
351	02	02.		Bedding Sand - Ground Solutions	3.33 tn	57			0	17.00 /tn	57			0		0	0
352	02	02.		Pipe Zone Material - Ground Solutions	8.89 tn	151			0	17.00 /tn	151			0		0	0
353	02	02.		<b>Excavation Rollup</b>	<b>35.56 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
354	02	02.		<b>Backfill Rollup</b>	<b>27.41 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
355	02	02.		Pot Hole - Standard	2.00 ea	626	8	116.58 /hr	466		0			0	39.90 /hr	160	0
356	02	02.		<b>Warning Tape</b>	<b>40.00 lf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>	<b>/lf</b>	<b>0</b>	<b>0</b>
357	02	02.		<b>Tracer Wire</b>	<b>40.00 lf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>	<b>/lf</b>	<b>0</b>	<b>0</b>
358	02	02.		Rock Bags (50" O.C.)	10.00 ea	20			0		2.00 /ea	2.00		20		0	0
359	02	02.	02.345	<b>18" and 12" Forcemain</b>													
360	02	02.		<b>18" &amp; 12" Forcemain - Misc. Fittings</b>													
361	02	02.		<b>DI MJ Pipe 12"</b>	<b>40.00 lf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
362	02	02.		<b>DI MJ Pipe 18"</b>	<b>160.00 lf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
363	02	02.		Ductile Iron Pipe Unload 12"	40.00 lf	16	0	94.47 /hr	14		0			0	14.82 /mh	1	0
364	02	02.		Ductile Iron Pipe Unload 18"	160.00 lf	266	3	175.90 /hr	156		0			0	14.82 /mh	105	5
365	02	02.		Ductile Iron Pipe String 12"	40.00 lf	61	1	94.47 /hr	56		0			0	14.82 /mh	4	1
366	02	02.		Ductile Iron Pipe String 18"	160.00 lf	975	16	175.90 /hr	938		0			0	14.82 /mh	25	12
367	02	02.		Ductile Iron Pipe Testing 12"	40.00 lf	164	2	162.86 /hr	163		0			0		0	2
368	02	02.		Ductile Iron Pipe Testing 18"	160.00 lf	1,309	16	162.86 /hr	1,303		0			0		0	6
369	02	02.		DI Fitting 12" Bend 45, MJ	3.00 ea	497	6	81.43 /hr	467		0			0	153.90 /mh	27	4
370	02	02.		DI Fitting 18" Bend 45, MJ	3.00 ea	1,501	25	175.90 /hr	1,488		0			0	14.82 /mh	6	8
371	02	02.		DI Fitting 18x16" Reducing Wye, MJ	3.00 ea	2,071	35	175.90 /hr	2,058		0			0	14.82 /mh	6	8
372	02	02.		DI Fitting 18x16" CON Rdc, MJ	1.00 ea	476	8	175.90 /hr	471		0			0	14.82 /mh	2	3
373	02	02.		DI Pipe Cut 12"	6.00 ea	1,683	18	81.43 /hr	1,466		0			0	153.90 /mh	192	25
374	02	02.		DI Pipe Cut 18"	6.00 ea	2,503	27	81.43 /hr	2,199		0			0	153.90 /mh	269	35
375	02	02.		DI MJ Acc Kit 12"	11.00 ea	1,270	15	81.43 /hr	1,254		0			0	14.82 /mh	7	9
376	02	02.		DI MJ Acc Kit 18"	12.00 ea	2,560	36	105.05 /hr	2,521		0			0	14.82 /mh	17	23
377	02	02.		<b>Trenching D/L/B Pipeline - 18" &amp; 12"</b>													
378	02	02.		Sub Haul & Dump Fee's (SEO)	5.00 ld	1,500			0		150.00 /ld	150.00		750	/ld	0	750
379	02	02.		Pipeline Foreman	5.00 day	3,198	40	79.95 /hr	3,198		0			0		0	0
380	02	02.		D/L/B 4" Pipe	200.00 lf	29,500	288	4,274.20 /day	17,097		0		3,100.80		/day	12,403	0
381	02	02.		Trench Spoil Haul Off Support (LE)	5.00 ld	127	1	69.34 /hr	59		0			0	79.80 /hr	68	0
382	02	02.		Bedding Sand - Ground Solutions	22.22 tn	378			0	17.00 /tn	378			0		0	0
383	02	02.		Pipe Zone Material - Ground Solutions	59.26 tn	1,007			0	17.00 /tn	1,007			0		0	0
384	02	02.		<b>Excavation Rollup</b>	<b>296.30 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
385	02	02.		<b>Backfill Rollup</b>	<b>241.98 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
386	02	02.		Trench Box Trench Width 8Hx16Lx4W	1.00 ea	1,500			0		1,500.00 /week	1,500.00		1,500	/week	0	0
387	02	02.		<b>Warning Tape</b>	<b>200.00 lf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>	<b>/lf</b>	<b>0</b>	<b>0</b>
388	02	02.		<b>Tracer Wire</b>	<b>200.00 lf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>	<b>/lf</b>	<b>0</b>	<b>0</b>
389	02	02.		Rock Bags (50" O.C.)	50.00 ea	600			0	10.00 /ea	500		2.00	100	/ea	0	0
390	02	02.	02.350	<b>24" Forcemain</b>													
391	02	02.		<b>Misc. Fittings</b>													
392	02	02.		<b>DI MJ Pipe 24"</b>	<b>170.00 lf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
393	02	02.		Ductile Iron Pipe Unload 24"	170.00 lf	185	3	175.90 /hr	166		0			0	14.82 /mh	13	6
394	02	02.		Ductile Iron Pipe String 24"	170.00 lf	1,044	17	175.90 /hr	997		0			0	14.82 /mh	31	16
395	02	02.		Ductile Iron Pipe Testing 24"	170.00 lf	1,796	26	210.09 /hr	1,786		0			0		0	10
396	02	02.		DI Fitting 24" Cap, MJ	1.00 ea	426	7	175.90 /hr	419		0			0	14.82 /mh	3	5
397	02	02.		DI Pipe Cut 24"	1.00 ea	552	6	81.43 /hr	489		0			0	153.90 /mh	58	6
398	02	02.		<b>Trenching D/L/B Pipeline - 24" Forcemain</b>													
399	02	02.		Sub Haul & Dump Fee's (SEO)	7.00 ld	2,100			0		150.00 /ld	150.00		1,050	/ld	0	1,050
400	02	02.		Pipeline Foreman	3.00 day	1,919	24	79.95 /hr	1,919		0			0		0	0
401	02	02.		D/L/B 24" Pipe	170.00 lf	16,717	163	4,274.20 /day	9,688		0		3,100.80		/day	7,028	0
402	02	02.		Trench Spoil Haul Off Support (LE)	7.00 ld	177	1	69.34 /hr	83		0			0	79.80 /hr	95	0



Row	Bid Item	Work Code	Est. Item	Description	Takeoff Quantity	Grand Total Amount	Labor Hours	Labor Price	Labor Amount	Material Cost/Unit	Material Amount	Sub Cost/Unit	Sub Price	Sub Amount	Equip Price	Equip Amount	Other Amount
403	02	02.		Bedding Sand - Ground Solutions	18.89 tn	321			0	17.00 /tn	321			0		0	0
404	02	02.		Pipe Zone Material - Ground Solutions	113.33 tn	1,927			0	17.00 /tn	1,927			0		0	0
405	02	02.		<b>Excavation Rollup</b>	<b>251.85 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
406	02	02.		<b>Backfill Rollup</b>	<b>163.70 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
407	02	02.		Trench Box Trench Width 8Hx16Lx4W	1.00 ea	1,500		/ea	0		0			0	1.00 /week	1,500	0
408	02	02.		<b>Warning Tape</b>	<b>170.00 lf</b>	<b>0</b>			<b>0</b>	<b>/lf</b>	<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
409	02	02.		<b>Tracer Wire</b>	<b>170.00 lf</b>	<b>0</b>			<b>0</b>	<b>/lf</b>	<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
410	02	02.		Rock Bags (5'0" O.C.)	43.00 ea	516			0	10.00 /ea	430	2.00 /ea	2.00	86		0	0
411	02	02.	02.355	<b>Cathodic Protection</b>													
412	02	02.		<b>Pipe Cathodic Protection</b>													
413	02	02.		Install Anode - Standard	8.00 ea	6,173	80	128.66 /hr	5,147		0			0	51.30 /hr	1,026	0
414	02	02.		Test Station - Standard	1.00 ea	10,926	12	128.66 /hr	772		0	10,000.00 /ea	10,000.00	10,000		51.30 /hr	154
415	02	02.		Cad Welding - Standard	21.00 ea	2,193	24	105.05 /hr	1,654		0			0	51.30 /hr	539	0
416	02	02.		Wax Tape Installation - Standard	21.00 ea	2,194	42	94.47 /hr	1,984	10.00 /ea	210			0	/ea	0	0
417	02	02.	02.360	<b>1" HDPE Line</b>													
418	02	02.		<b>HDPE Pipe</b>													
419	02	02.		HDPE Pipe 4" DR17	120.00 lf	6,671	38	101.79 /hr	3,054		0			0	64.13 /ch	3,084	534
420	02	02.		Plastic Pipe Unload 4"	120.00 lf	39	1	94.47 /hr	35		0			0	14.82 /ch	2	1
421	02	02.		Plastic Pipe String 4"	120.00 lf	84	2	94.47 /hr	77		0			0	14.82 /ch	5	2
422	02	02.		Plastic Pipe Testing 4"	120.00 lf	370	4	162.86 /hr	365		0			0	/lf	0	5
423	02	02.		HDPE Bend 22-1/2 4" DR17	2.00 ea	37	0	141.70 /hr	9		0			0	171.00 /ch	27	0
424	02	02.		HDPE Bend 45 4" DR17	1.00 ea	18	0	141.70 /hr	5		0			0	171.00 /ch	14	0
425	02	02.		Meter Complete	1.00 ea	18	0	141.70 /hr	5	/ea	0			0	171.00 /ch	14	0
426	02	05.		<b>Excavation</b>													
427	02	05.	02.030	<b>Soil Nail Shoring System</b>													
428	02	05.		<b>Install Shoring System</b>													
429	02	05.		General Foreman	5.00 day	3,604	40	90.10 /mh	3,604		0			0		0	0
430	02	05.		Laborer #1	5.00 day	1,889	40	47.23 /mh	1,889		0			0		0	0
431	02	05.		Laborer #2	5.00 day	1,889	40	47.23 /mh	1,889		0			0		0	0
432	02	05.		Operating Engineer (backhoe) #1	5.00 day	2,774	40	69.35 /mh	2,774		0			0		0	0
433	02	05.		Crane - Hoisting	5.00 day	2,774	40	69.35 /hr	2,774		0			0	/hr	0	0
434	02	05.		Loader Cat 951 #1 Day	5.00 day	399			0		0			0	79.80 /day	399	0
435	02	05.		Service Truck #1 Day	5.00 day	1,140			0		0			0	228.00 /day	1,140	0
436	02	05.		Tools #1 Day	5.00 day	137			0		0			0	27.36 /day	137	0
437	02	05.		<b>Shoring FCC</b>													
438	02	05.		HTM Construction	8,066.00 sf	278,604			0		0	34.54 /sf	34.54	278,604	/sf	0	0
439	02	05.	02.035	<b>Excavate Wet Well</b>													
440	02	05.		<b>Haul to Waste</b>													
441	02	05.		Operating Engineer (backhoe) #1	6.00 day	3,329	48	69.35 /mh	3,329		0			0		0	0
442	02	05.		Loader Cat 951 #1 Day	6.00 day	1,368			0		0			0	228.00 /day	1,368	0
443	02	05.		Sub - Trucking	4,925.00 CY	49,250			0		0	10.00 /CY	10.00	49,250		0	0
444	02	05.		<b>Backfill to bottom of Valve pit with CLSM</b>													
445	02	05.		General Foreman	3.00 day	2,162	24	90.10 /mh	2,162		0			0		0	0
446	02	05.		Laborer #1	3.00 day	1,134	24	47.23 /mh	1,134		0			0		0	0
447	02	05.		Laborer #2	3.00 day	1,134	24	47.23 /mh	1,134		0			0		0	0
448	02	05.		Laborer #3	3.00 day	1,134	24	47.23 /mh	1,134		0			0		0	0
449	02	05.		Cement Mason #1	3.00 day	1,338	24	55.75 /mh	1,338		0			0		0	0
450	02	05.		Operating Engineer (backhoe) #1	3.00 day	1,664	24	69.35 /mh	1,664		0			0		0	0
451	02	05.		Gen Set	3.00 day	821			0		0			0	273.60 /day	821	0
452	02	05.		Tools #1 Day	3.00 day	82			0		0			0	27.36 /day	82	0
453	02	05.		Vibrator #1 Day	3.00 day	164			0		0			0	54.72 /day	164	0
454	02	05.		Vibrator #2 Day	3.00 day	164			0		0			0	54.72 /day	164	0
455	02	05.		Concrete Pump 52 Meter (170') Boom Straight Time	1,100.00 CY	9,000			0		0	8.18 /CY	8.18	9,000	/CY	0	0
456	02	05.		CLSM - Ag Industries	1,100.00 CY	115,500			0	105.00 /CY	115,500			0		0	0
457	02	05.		<b>Stair Tower</b>													
458	02	05.		General Foreman	3.00 day	2,162	24	90.10 /mh	2,162		0			0		0	0
459	02	05.		Laborer #1	3.00 day	1,134	24	47.23 /mh	1,134		0			0		0	0
460	02	05.		Laborer #2	3.00 day	1,134	24	47.23 /mh	1,134		0			0		0	0
461	02	05.		Laborer #3	3.00 day	1,134	24	47.23 /mh	1,134		0			0		0	0
462	02	05.		Operating Engineer (backhoe) #1	3.00 day	1,664	24	69.35 /mh	1,664		0			0		0	0
463	02	05.		<b>Crane 50 ton (or 40 ton) #1 Day</b>	<b>1.00 day</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>	<b>/day</b>	<b>0</b>	<b>0</b>
464	02	05.		Stair Tower	3.00 Mo	4,500			0		0			0	1,500.00 /Mo	4,500	0
465	02	05.		Tools #1 Day	3.00 day	82			0		0			0	27.36 /day	82	0
466	02	05.		<b>Excavate with Long Reach Excavator and Skid Steer</b>													
467	02	05.		General Foreman	20.00 day	14,416	160	90.10 /mh	14,416		0			0		0	0
468	02	05.		Laborer #1	20.00 day	7,557	160	47.23 /mh	7,557		0			0		0	0
469	02	05.		Laborer #2	20.00 day	7,557	160	47.23 /mh	7,557		0			0		0	0



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LIFT STATION A REPLACEMENT  
95% Cost Model

Row	Bid Item	Work Code	Est. Item	Description	Takeoff Quantity	Grand Total Amount	Labor Hours	Labor Price	Labor Amount	Material Cost/Unit	Material Amount	Sub Cost/Unit	Sub Price	Sub Amount	Equip Price	Equip Amount	Other Amount
470	02	05.		Laborer #3	20.00 day	7,557	160	47.23 /mh	7,557		0			0		0	0
471	02	05.		Operating Engineer (backhoe) #1	20.00 day	11,095	160	69.35 /mh	11,095		0			0		0	0
472	02	05.		Skid Steer	20.00 day	6,384			0		0			0	319.20 /day	6,384	0
473	02	05.		Service Truck #1 Day	20.00 day	4,560			0		0			0	228.00 /day	4,560	0
474	02	05.		Tools #1 Day	20.00 day	547			0		0			0	27.36 /day	547	0
475	02	05.		Long Reach Excavator	2.00 Mo	17,080			0		0		/Mo	0	8,240.00 /Mo	16,480	600
476	02	05.		<b>Structural backfill</b>													
477	02	05.		Laborer #1	40.00 hr	1,889	40	47.23 /hr	1,889		0			0		0	0
478	02	05.		Laborer #2	40.00 hr	1,889	40	47.23 /hr	1,889		0			0		0	0
479	02	05.		Laborer #3	40.00 hr	1,889	40	47.23 /hr	1,889		0			0		0	0
480	02	05.		Structural Fill - Ground Solutions	1,265.00 yd3	31,625			0	25.00 /yd3	31,625			0		0	0
481	02	05.		CAT 950 Loader - F/O	40.00 hr	5,966	40	69.35 /hr	2,774		0			0	79.80 /hr	3,192	0
482	02	05.		Vibratory Compaction Equipment	40.00 hr	4,415	40	69.35 /hr	2,774		0			0	41.04 /hr	1,642	0
483	02	05.		Water Truck 2000 gal - F/O	40.00 hr	4,625	40	81.43 /hr	3,257		0			0	34.20 /hr	1,368	0
484	02	05.		<b>Total structural backfill =</b>	<b>600.00 yd3</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
485	02	05.		<b>CLSM under slab</b>													
486	02	05.		Fine Grade - Mat Slab	2,394.00 sf	865	13	68.67 /mh	865		0			0		0	0
487	02	05.		Place Matt Foundation < 20 cyds	245.00 cy	8,075	118	68.67 /mh	8,075	/cy	0			0		0	0
488	02	05.		Concrete Vibrator	245.00 cy	613			0		0		2.50 /mh	0		613	0
489	02	05.		<b>Slab Concrete Rollup</b>	<b>245.00 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
490	02	05.		<b>All Concrete Rollup</b>	<b>245.00 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
491	02	05.		<b>Slab Horizontal Square Footage Rollup</b>	<b>2,394.00 sf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
492	02	05.	02.040	<b>Excavate Meter Vault</b>													
493	02	05.		<b>Excavate Meter Vault</b>													
494	02	05.		CAT 345 Excavator - F/O	4.00 hr	797	4	69.35 /hr	277		0			0	129.96 /hr	520	0
495	02	05.		<b>Total excavation =</b>	<b>250.00 yd3</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
496	02	05.		<b>Structural backfill under slab</b>													
497	02	05.		Laborer #1	3.00 hr	142	3	47.23 /hr	142		0			0		0	0
498	02	05.		Laborer #2	3.00 hr	142	3	47.23 /hr	142		0			0		0	0
499	02	05.		Laborer #3	3.00 hr	142	3	47.23 /hr	142		0			0		0	0
500	02	05.		agg. #57 (1" - #4) - Ground Solutions	50.00 yd3	2,567			0	51.34 /yd3	2,567			0		0	0
501	02	05.		CAT 950 Loader - F/O	3.00 hr	447	3	69.35 /hr	208		0			0	79.80 /hr	239	0
502	02	05.		Vibratory Compaction Equipment	3.00 hr	331	3	69.35 /hr	208		0			0	41.04 /hr	123	0
503	02	05.		Water Truck 2000 gal - F/O	3.00 hr	347	3	81.43 /hr	244		0			0	34.20 /hr	103	0
504	02	05.		<b>Total structural backfill =</b>	<b>50.00 yd3</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
505	02	05.		<b>Structural backfill</b>													
506	02	05.		Laborer #1	10.00 hr	472	10	47.23 /hr	472		0			0		0	0
507	02	05.		Laborer #2	10.00 hr	472	10	47.23 /hr	472		0			0		0	0
508	02	05.		<b>Laborer #3</b>	<b>hr</b>	<b>0</b>		<b>47.23 /hr</b>	<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
509	02	05.		<b>Native fill</b>	<b>120.00 yd3</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
510	02	05.		CAT 950 Loader - F/O	10.00 hr	1,491	10	69.35 /hr	693		0			0	79.80 /hr	798	0
511	02	05.		Vibratory Compaction Equipment	10.00 hr	1,104	10	69.35 /hr	693		0			0	41.04 /hr	410	0
512	02	05.		Water Truck 2000 gal - F/O	10.00 hr	1,156	10	81.43 /hr	814		0			0	34.20 /hr	342	0
513	02	05.		<b>Total structural backfill =</b>	<b>120.00 yd3</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
514	02	05.		<b>Haul excess</b>													
515	02	05.		CAT 950 Loader - F/O	10.00 hr	1,491	10	69.35 /hr	693		0			0	79.80 /hr	798	0
516	02	05.		Sub - Trucking	200.00 cy	2,000			0		0	10.00 /cy	10.00	2,000		0	0
517	02	05.		<b>Total haul excess =</b>	<b>1,800.00 yd3</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
518	02	05.		<b>Shoring FCC</b>													
519	02	05.		Shoring	540.00 sf	2,700			0		0	5.00 /sf	5.00	2,700		0	0
520	02	05.	02.050	<b>Excavate Electrical Enclosure</b>													
521	02	05.		<b>Over Ex for Elect. Bldg</b>													
522	02	05.		CAT 330 Excavator	6.00 hr	997	6	69.35 /hr	416		0			0	96.90 /hr	581	0
523	02	05.		<b>Total excavation =</b>	<b>200.00 yd3</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
524	02	05.		<b>Structural backfill under slab</b>													
525	02	05.		Laborer #1	8.00 hr	378	8	47.23 /hr	378		0			0		0	0
526	02	05.		Laborer #2	8.00 hr	378	8	47.23 /hr	378		0			0		0	0
527	02	05.		Laborer #3	8.00 hr	378	8	47.23 /hr	378		0			0		0	0
528	02	05.		agg. #57 (1" - #4) - Ground Solutions	276.00 yd3	14,169			0	51.34 /yd3	14,169			0		0	0
529	02	05.		CAT 950 Loader - F/O	8.00 hr	1,193	8	69.35 /hr	555		0			0	79.80 /hr	638	0
530	02	05.		Vibratory Compaction Equipment	8.00 hr	883	8	69.35 /hr	555		0			0	41.04 /hr	328	0
531	02	05.		Water Truck 2000 gal - F/O	8.00 hr	925	8	81.43 /hr	651		0			0	34.20 /hr	274	0
532	02	05.		<b>Total structural backfill =</b>	<b>276.00 yd3</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
533	02	05.		<b>Haul excess</b>													
534	02	05.		CAT 950 Loader - F/O	10.00 hr	1,491	10	69.35 /hr	693		0			0	79.80 /hr	798	0
535	02	05.		Sub - Trucking	276.00 cy	2,760			0		0	10.00 /cy	10.00	2,760		0	0
536	02	05.		<b>Total haul excess =</b>	<b>1,800.00 yd3</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>





Row	Bid Item	Work Code	Est. Item	Description	Takeoff Quantity	Grand Total Amount	Labor Hours	Labor Price	Labor Amount	Material Cost/Unit	Material Amount	Sub Cost/Unit	Sub Price	Sub Amount	Equip Price	Equip Amount	Other Amount
537	02	05.	02.055	Excavate Bio Filter Slab													
538	02	05.		Excavate Biofilter Slab													
539	02	05.		CAT 345 Excavator - F/O	4.00 hr	797	4	69.35 /hr	277		0			0	129.96 /hr	520	0
540	02	05.		<b>Total excavation =</b>	<b>250.00 yd3</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
541	02	05.		Structural backfill under slab													
542	02	05.		Laborer #1	4.00 hr	189	4	47.23 /hr	189		0			0		0	0
543	02	05.		Laborer #2	4.00 hr	189	4	47.23 /hr	189		0			0		0	0
544	02	05.		Laborer #3	4.00 hr	189	4	47.23 /hr	189		0			0		0	0
545	02	05.		agg. #57 (1" - #4) - Ground Solutions	70.00 yd3	3,594			0	51.34 /yd3	3,594			0		0	0
546	02	05.		CAT 950 Loader - F/O	4.00 hr	597	4	69.35 /hr	277		0			0	79.80 /hr	319	0
547	02	05.		Vibratory Compaction Equipment	4.00 hr	442	4	69.35 /hr	277		0			0	41.04 /hr	164	0
548	02	05.		Water Truck 2000 gal - F/O	4.00 hr	463	4	81.43 /hr	326		0			0	34.20 /hr	137	0
549	02	05.		<b>Total structural backfill =</b>	<b>70.00 yd3</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
550	02	05.		Haul excess													
551	02	05.		CAT 950 Loader - F/O	4.00 hr	597	4	69.35 /hr	277		0			0	79.80 /hr	319	0
552	02	05.		Sub - Trucking	70.00 cy	700			0		10.00 /cy	10.00		700		0	0
553	02	05.		<b>Total haul excess =</b>	<b>1,800.00 yd3</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
554	02	05.	02.060	Excavate for Main Dist. Switchgear													
555	02	05.		Excavate Main Dist. Switch Gear													
556	02	05.		CAT 345 Excavator - F/O	4.00 hr	797	4	69.35 /hr	277		0			0	129.96 /hr	520	0
557	02	05.		<b>Total excavation =</b>	<b>250.00 yd3</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
558	02	05.		Structural backfill under slab													
559	02	05.		Laborer #1	4.00 hr	189	4	47.23 /hr	189		0			0		0	0
560	02	05.		Laborer #2	4.00 hr	189	4	47.23 /hr	189		0			0		0	0
561	02	05.		Laborer #3	4.00 hr	189	4	47.23 /hr	189		0			0		0	0
562	02	05.		agg. #57 (1" - #4) - Ground Solutions	35.00 yd3	1,797			0	51.34 /yd3	1,797			0		0	0
563	02	05.		CAT 950 Loader - F/O	4.00 hr	597	4	69.35 /hr	277		0			0	79.80 /hr	319	0
564	02	05.		Vibratory Compaction Equipment	4.00 hr	442	4	69.35 /hr	277		0			0	41.04 /hr	164	0
565	02	05.		Water Truck 2000 gal - F/O	4.00 hr	463	4	81.43 /hr	326		0			0	34.20 /hr	137	0
566	02	05.		<b>Total structural backfill =</b>	<b>35.00 yd3</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
567	02	05.		Haul excess													
568	02	05.		CAT 950 Loader - F/O	2.00 hr	298	2	69.35 /hr	139		0			0	79.80 /hr	160	0
569	02	05.		Sub - Trucking	35.00 cy	350			0		10.00 /cy	10.00		350		0	0
570	02	05.		<b>Total haul excess =</b>	<b>1,800.00 yd3</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
571	02	05.	02.065	Excavate for LS Equipment Control Panels													
572	02	05.		Excavate LS Equipment Control Panels													
573	02	05.		CAT 345 Excavator - F/O	4.00 hr	797	4	69.35 /hr	277		0			0	129.96 /hr	520	0
574	02	05.		<b>Total excavation =</b>	<b>250.00 yd3</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
575	02	05.		Structural backfill under slab													
576	02	05.		Laborer #1	4.00 hr	189	4	47.23 /hr	189		0			0		0	0
577	02	05.		Laborer #2	4.00 hr	189	4	47.23 /hr	189		0			0		0	0
578	02	05.		Laborer #3	4.00 hr	189	4	47.23 /hr	189		0			0		0	0
579	02	05.		agg. #57 (1" - #4) - Ground Solutions	35.00 yd3	1,797			0	51.34 /yd3	1,797			0		0	0
580	02	05.		CAT 950 Loader - F/O	4.00 hr	597	4	69.35 /hr	277		0			0	79.80 /hr	319	0
581	02	05.		Vibratory Compaction Equipment	4.00 hr	442	4	69.35 /hr	277		0			0	41.04 /hr	164	0
582	02	05.		Water Truck 2000 gal - F/O	4.00 hr	463	4	81.43 /hr	326		0			0	34.20 /hr	137	0
583	02	05.		<b>Total structural backfill =</b>	<b>35.00 yd3</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
584	02	05.		Haul excess													
585	02	05.		CAT 950 Loader - F/O	2.00 hr	298	2	69.35 /hr	139		0			0	79.80 /hr	160	0
586	02	05.		Sub - Trucking	35.00 cy	350			0		10.00 /cy	10.00		350		0	0
587	02	05.		<b>Total haul excess =</b>	<b>1,800.00 yd3</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
588	02	05.	02.130	Dewatering for Wetwell													
589	02	05.		Unload and Load KDCC Trucks													
590	02	05.		General Foreman	2.00 day	1,442	16	90.10 /mh	1,442		0			0		0	0
591	02	05.		Laborer #1	2.00 day	756	16	47.23 /mh	756		0			0		0	0
592	02	05.		Laborer #2	2.00 day	756	16	47.23 /mh	756		0			0		0	0
593	02	05.		Laborer #3	2.00 day	756	16	47.23 /mh	756		0			0		0	0
594	02	05.		Operating Engineer (backhoe) #1	2.00 day	1,110	16	69.35 /mh	1,110		0			0		0	0
595	02	05.		Forklift Rental #1 Day	2.00 day	376			0		0			0	188.10 /day	376	0
596	02	05.		Tools #1 Day	2.00 day	55			0		0			0	27.36 /day	55	0
597	02	05.		Extract WELL Casings													
598	02	05.		General Foreman	2.00 day	1,442	16	90.10 /mh	1,442		0			0		0	0
599	02	05.		Operating Engineer (backhoe) #1	3.00 day	1,664	24	69.35 /mh	1,664		0			0		0	0
600	02	05.		<b>Crane 50 ton (or 40 ton) #1 Day</b>	<b>3.00 day</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>	<b>/day</b>	<b>0</b>	<b>0</b>
601	02	05.		Tools #1 Day	3.00 day	82			0		0			0	27.36 /day	82	0
602	02	05.		Furnish & Install 3/8" minus pea gravel													
603	02	05.		General Foreman	3.00 day	2,162	24	90.10 /mh	2,162		0			0		0	0



Row	Bid Item	Work Code	Est. Item	Description	Takeoff Quantity	Grand Total Amount	Labor Hours	Labor Price	Labor Amount	Material Cost/Unit	Material Amount	Sub Cost/Unit	Sub Price	Sub Amount	Equip Price	Equip Amount	Other Amount
604	02	05.		Operating Engineer (backhoe) #1	3.00 day	1,664	24	69.35 /mh	1,664		0			0		0	0
605	02	05.		Backhoe #1 Day	3.00 day	958			0		0			0	319.20 /day	958	0
606	02	05.		Tools #1 Day	3.00 day	82			0		0			0	27.36 /day	82	0
607	02	05.		3/8" minus Pea Gravel - Ground Solutions	160.00 Tn	2,560			0	16.00 /Tn	2,560			0		0	0
608	02	05.		<b>Power Consumption (50hp x 1.30407 x 24 x 120)</b>													
609	02	05.		Power Consumption	193.030.00 kwh	19,303			0	0.10 /kwh	19,303			0		0	0
610	02	05.		<b>Kelly Dewatering</b>													
611	02	05.		Kelly Dewatering Includes Bond	1.00 ls	76,148			0		76,148.00 /ls	76,148.00	76,148.00	76,148		0	0
612	02	05.		Additional Month Rentals	1.00 MO	4,763			0		4,763.00 /MO	4,763.00	4,763.00	4,763		0	0
613	02	05.		<b>Monthly Testing</b>													
614	02	05.		Monthly Testing	6.00 ea	900			0	150.00 /ea	900			0		0	0
615	02	05.		<b>Permit</b>													
616	02	05.		Permit	1.00 ls	500			0	500.00 /ls	500			0		0	0
617	02	05.		<b>Sed Basin and Discharge to River</b>													
618	02	05.		General Foreman	2.00 day	1,442	16	90.10 /mh	1,442		0			0		0	0
619	02	05.		Laborer #1	2.00 day	756	16	47.23 /mh	756		0			0		0	0
620	02	05.		Laborer #2	2.00 day	756	16	47.23 /mh	756		0			0		0	0
621	02	05.		Laborer #3	2.00 day	756	16	47.23 /mh	756		0			0		0	0
622	02	05.		Operating Engineer (backhoe) #1	2.00 day	1,110	16	69.35 /mh	1,110		0			0		0	0
623	02	05.		Operating Engineer (backhoe) #2	2.00 day	1,110	16	69.35 /mh	1,110		0			0		0	0
624	02	05.		Backhoe #1 Day	2.00 day	638			0		0			0	319.20 /day	638	0
625	02	05.		Loader Cat 951 #1 Day	2.00 day	160			0		0			0	79.80 /day	160	0
626	02	05.		Tools #1 Day	2.00 day	55			0		0			0	27.36 /day	55	0
627	02	05.		Weir	1.00 ls	219			0	219.00 /ls	219			0		0	0
628	02	06.		<b>Sitework</b>													
629	02	06.	02.015	<b>Crushed Rock Surfacing</b>													
630	02	06.		<b>Crushed Rock Surfacing</b>													
631	02	06.		Crushed Rock Surfacing - Ground Solutions	800.00 tn	28,089	40	47.23 /mh	1,889	27.75 /tn	22,200	/tn		0	5.00 /tn	4,000	0
632	02	06.	02.135	<b>Crane Pad</b>													
633	02	06.		<b>Build Crane Pad 50 x 20</b>													
634	02	06.		General Foreman	2.00 day	1,442	16	90.10 /mh	1,442		0			0		0	0
635	02	06.		Laborer #1	2.00 day	756	16	47.23 /mh	756		0			0		0	0
636	02	06.		Laborer #2	2.00 day	756	16	47.23 /mh	756		0			0		0	0
637	02	06.		Laborer #3	2.00 day	756	16	47.23 /mh	756		0			0		0	0
638	02	06.		Operating Engineer (backhoe) #1	2.00 day	1,110	16	69.35 /mh	1,110		0			0		0	0
639	02	06.		Backhoe #1 Day	2.00 day	638			0		0			0	319.20 /day	638	0
640	02	06.		Earth Tamper/Wacker/Compactor #1 Day	2.00 day	237			0		0			0	118.56 /day	237	0
641	02	06.		Earth Tamper/Wacker/Compactor #2 Day	2.00 day	237			0		0			0	118.56 /day	237	0
642	02	06.		Earth Tamper/Wacker/Compactor #3 Day	2.00 day	237			0		0			0	118.56 /day	237	0
643	02	06.		Loader Cat 951 #1 Day	2.00 day	160			0		0			0	79.80 /day	160	0
644	02	06.		Service Truck #1 Day	2.00 day	456			0		0			0	228.00 /day	456	0
645	02	06.		Tools #1 Day	2.00 day	55			0		0			0	27.36 /day	55	0
646	02	06.		Base Course - Ground Solutions	70.00 tn	1,138			0	16.25 /tn	1,138			0		0	0
647	02	06.		<b>MSC. Material #2</b>	<b>1.00 ls</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
648	02	07.		<b>Paving</b>													
649	02	07.	02.010	<b>Asphalt Paving</b>													
650	02	07.		<b>Parking Bumpers</b>													
651	02	07.		General Foreman	1.00 ea	721	8	90.10 /mh	721		0			0		0	0
652	02	07.		Laborer #1	1.00 ea	378	8	47.23 /mh	378		0			0		0	0
653	02	07.		Laborer #2	1.00 ea	378	8	47.23 /mh	378		0			0		0	0
654	02	07.		Laborer #3	1.00 ea	378	8	47.23 /mh	378		0			0		0	0
655	02	07.		Air Compressor #1 Day	1.00 ea	274			0		0			0	273.60 /ea	274	0
656	02	07.		Backhoe #1 Day	1.00 ea	319			0		0			0	319.20 /ea	319	0
657	02	07.		Tools #1 Day	1.00 ea	27			0		0			0	27.36 /ea	27	0
658	02	07.		Parking Bumpers	7.00 ea	1,400			0	200.00 /ea	1,400			0		0	0
659	02	07.		Rebar / Adhesive	7.00 ls	200			0	28.57 /ls	200			0		0	0
660	02	07.		<b>Subcontractor #1</b>	<b>7.00 ls</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
661	02	07.		<b>Asphalt Paving</b>													
662	02	07.		Mile High Paving	948.00 SY	29,292			0		0	30.90 /SY	30.90	29,292		0	0
663	02	14.		<b>Fence</b>													
664	02	14.	02.005	<b>Fence and Gates</b>													
665	02	14.		<b>Fence</b>													
666	02	14.		Custom Fence and Supply	560.00 lf	36,419			0		65.03 /lf	65.03	65.03	36,419		0	0
667	02	14.		<b>3 Strand Barb Wire @ Top Add 8ft Fence (Included Above)</b>	<b>560.00 lf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
668	02	14.		<b>Gates</b>													
669	02	14.		<b>Doouble Roller Gate (2-12') (Included Above)</b>	<b>1.00 EA</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>	<b>/EA</b>	<b>0</b>	<b>0</b>
670	02	14.		<b>Single Roller Gate (32') (Included Above)</b>	<b>1.00 ea</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>	<b>/ea</b>	<b>0</b>	<b>0</b>



Row	Bid Item	Work Code	Est. Item	Description	Takeoff Quantity	Grand Total Amount	Labor Hours	Labor Price	Labor Amount	Material Cost/Unit	Material Amount	Sub Cost/Unit	Sub Price	Sub Amount	Equip Price	Equip Amount	Other Amount
671	02	15.		<b>Landscaping</b>													
672	02	15.	02.000	<b>Erosion Control</b>													
673	02	15.		<b>Silt Fence</b>													
674	02	15.		Silt Fence (Arnold's AG Group, LLC)	700.00 LF	1,050			0	1.50 /LF	1,050			0		0	0
675	02	15.		<b>Concrete Washout</b>													
676	02	15.		General Foreman	5.00 day	3,604	40	90.10 /mh	3,604		0			0		0	0
677	02	15.		Laborer #1	5.00 day	1,889	40	47.23 /mh	1,889		0			0		0	0
678	02	15.		Operating Engineer (backhoe) #1	5.00 day	2,774	40	69.35 /mh	2,774		0			0		0	0
679	02	15.		Backhoe #1 Day	5.00 day	1,596			0		0			0	319.20 /day	1,596	0
680	02	15.		Tools #1 Day	5.00 day	137			0		0			0	27.36 /day	137	0
681	02	15.		Plastic	1.00 ls	1,000			0	1,000.00 /ls	1,000			0		0	0
682	02	15.		<b>MSC. Material #2</b>	<b>10.00 ls</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
683	02	15.		Haul & Dispose	10.00 ea	2,500			0		0	250.00 /ea	250.00	2,500		0	0
684	02	15.		<b>Street Sweeping and Rumble strips</b>													
685	02	15.		Street Sweeping	8.00 Mo	16,000			0		0	2,000.00 /Mo	2,000.00	16,000		0	0
686	02	15.	02.001	<b>Landscaping</b>													
687	02	15.		<b>Permanent Seeding</b>													
688	02	15.		Arnold's Ag Group, LLC	1,400.00 SY	1,880			0		0	1.34 /SY	1.34	1,880		0	0
689	02	15.		<b>Sod</b>													
690	02	15.		Arnold's Ag Group, LLC	360.00 SF	1,800			0		0	5.00 /SF	5.00	1,800		0	0
691	02	15.		<b>Cleanup Permanent Seeding</b>													
692	02	15.		Arnold's Ag Group, LLC	700.00 SY	940			0		0	1.34 /SY	1.34	940		0	0
693	02	20.		<b>Demolition</b>													
694	02	20.	20.000	<b>Pipe and Manhole Demolition</b>													
695	02	20.		<b>Demo top 3 feet of existing Manholes &amp; Fill with Sand</b>													
696	02	20.		General Foreman	3.00 day	2,162	24	90.10 /mh	2,162		0			0		0	0
697	02	20.		Laborer #1	3.00 day	1,134	24	47.23 /mh	1,134		0			0		0	0
698	02	20.		Laborer #2	3.00 day	1,134	24	47.23 /mh	1,134		0			0		0	0
699	02	20.		Laborer #3	3.00 day	1,134	24	47.23 /mh	1,134		0			0		0	0
700	02	20.		Operating Engineer (backhoe) #1	3.00 day	1,664	24	69.35 /mh	1,664		0			0		0	0
701	02	20.		Air Compressor #1 Day	3.00 day	821			0		0			0	273.60 /day	821	0
702	02	20.		Backhoe #1 Day	3.00 day	958			0		0			0	319.20 /day	958	0
703	02	20.		Tools #1 Day	3.00 day	450			0		0			0	150.00 /day	450	0
704	02	20.		Sand Backfill - Ground Solutions	200.00 Tn	3,400			0	17.00 /Tn	3,400			0		0	0
705	02	20.		Haul Demo'd MH	1.00 Lds	250			0		0	250.00 /Lds	250.00	250		0	0
706	02	20.		<b>Flow Fill 15" Pipe</b>													
707	02	20.		General Foreman	5.00 day	3,604	40	90.10 /mh	3,604		0			0		0	0
708	02	20.		Laborer #1	5.00 day	1,889	40	47.23 /mh	1,889		0			0		0	0
709	02	20.		Laborer #2	5.00 day	1,889	40	47.23 /mh	1,889		0			0		0	0
710	02	20.		Laborer #3	5.00 day	1,889	40	47.23 /mh	1,889		0			0		0	0
711	02	20.		Operating Engineer (backhoe) #1	5.00 day	2,774	40	69.35 /mh	2,774		0			0		0	0
712	02	20.		Backhoe #1 Day	5.00 day	1,596			0		0			0	319.20 /day	1,596	0
713	02	20.		Tools #1 Day	5.00 day	137			0		0			0	27.36 /day	137	0
714	02	20.		Misc. Materials	1.00 LS	500			0	500.00 /LS	500			0		0	0
715	02	20.		CLSM - AG Industries	30.00 cy	3,150			0	105.00 /cy	3,150			0		0	0
716	02	20.		Sawcut Horz on Vert Walls	1.00 ls	5,000			0		0	5,000.00 /ls	5,000.00	5,000		0	0
717	02	20.	20.005	<b>Demo Grange Hall Pump Station</b>													
718	02	20.		<b>Sawcut Walls</b>													
719	02	20.		Setup / Remove for Sawcut	1.00 hr	47	1	47.23 /ch	47		0			0		0	0
720	02	20.		Saw Cut Wall Concrete 12in Thick	480.00 lf	8,333			0		0	17.36 /lf	17.36	8,333		0	0
721	02	20.		Break & Remove Concrete 12in Thick Average Reinforcing	864.00 sf	4,400			1,900		0			0	2.89 /sf	2,500	0
722	02	20.		<b>Excavate around 2 vaults for saw cut</b>													
723	02	20.		Laborer	8.00 hr	378	8	47.23 /hr	378		0			0		0	0
724	02	20.		CAT 302 Excavator	8.00 hr	755	8	69.35 /hr	555		0			0	25.08 /hr	201	0
725	02	20.		CAT 345 Excavator - F/O	8.00 hr	1,594	8	69.35 /hr	555		0			0	129.96 /hr	1,040	0
726	02	20.		<b>Total excavation =</b>	<b>50.00 yd3</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
727	02	20.		<b>Hand backfill with Sand</b>													
728	02	20.		Laborer #1	8.00 hr	378	8	47.23 /hr	378		0			0		0	0
729	02	20.		Laborer #2	8.00 hr	378	8	47.23 /hr	378		0			0		0	0
730	02	20.		Laborer #3	8.00 hr	378	8	47.23 /hr	378		0			0		0	0
731	02	20.		Jumping Jack Compactor - F/O	8.00 hr	743	8	47.23 /hr	378		0			0	45.60 /hr	365	0
732	02	20.		Vibratory Plate Compactor - F/O	8.00 hr	743	8	47.23 /hr	378		0			0	45.60 /hr	365	0
733	02	20.		Sand - Ground Solutions	100.00 yd3	3,145			0	31.45 /yd3	3,145			0		0	0
734	02	20.		<b>Demo Pipe - Ductile Iron and Pumps</b>													
735	02	20.		Demo Pipe Hangers 8in	5.00 ea	84	2	55.78 /mh	84		0			0		0	0
736	02	20.		Demo Pipe Valves 8in	2.00 ea	134	2	55.78 /mh	134		0			0		0	0
737	02	20.		Demo Pipe Pieces 8in	8.00 ea	3,443	16	61.31 /mh	981		0			0	153.90 /ch	2,462	0



Row	Bid Item	Work Code	Est. Item	Description	Takeoff Quantity	Grand Total Amount	Labor Hours	Labor Price	Labor Amount	Material Cost/Unit	Material Amount	Sub Cost/Unit	Sub Price	Sub Amount	Equip Price	Equip Amount	Other Amount
738	02	20.		Demo Pipe Fittings 8in	8.00 ea	298	5	55.78 /mh	298		0			0		0	0
739	02	20.		Pipe Cuts 8in	50.00 ea	1,608	25	64.33 /mh	1,608		0			0		0	0
740	02	20.		Demo Pipe Bollings 8in	20.00 ea	429	7	64.33 /mh	429		0			0		0	0
741	02	20.		Consumables Material @ \$15/hr	10.00 hr	150			0		0			0		0	150
742	02	20.	20.010	<b>Meter Vault</b>													
743	02	20.		<b>Sawcut Walls</b>													
744	02	20.		Setup / Remove for Sawcut	1.00 hr	47	1	47.23 /ch	47		0			0		0	0
745	02	20.		Saw Cut Wall Concrete 12in Thick	50.00 lf	868		47.23 /ch	0		0	17.36 /lf	17.36	868	163.02 /ch	0	0
746	02	20.		Setup / Remove Concrete	1.00 hr	47	1	47.23 /ch	47		0			0		0	0
747	02	20.		Break & Remove Concrete 12in Thick Average Reinforcing	150.00 sf	2,550			0		0	17.00 /sf	17.00	2,550		0	0
748	02	20.		<b>Excavate around vaults for saw cut</b>													
749	02	20.		Laborer	4.00 hr	189	4	47.23 /hr	189		0			0		0	0
750	02	20.		CAT 302 Excavator	4.00 hr	378	4	69.35 /hr	277		0			0	25.08 /hr	100	0
751	02	20.		CAT 345 Excavator - F/O	4.00 hr	797	4	69.35 /hr	277		0			0	129.96 /hr	520	0
752	02	20.		<b>Total excavation =</b>	<b>50.00 yd3</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
753	02	20.		<b>Hand backfill with Sand</b>													
754	02	20.		Laborer #1	4.00 hr	189	4	47.23 /hr	189		0			0		0	0
755	02	20.		Laborer #2	4.00 hr	189	4	47.23 /hr	189		0			0		0	0
756	02	20.		Laborer #3	4.00 hr	189	4	47.23 /hr	189		0			0		0	0
757	02	20.		Jumping Jack Compactor - F/O	4.00 hr	371	4	47.23 /hr	189		0			0	45.60 /hr	182	0
758	02	20.		Vibratory Plate Compactor - F/O	4.00 hr	371	4	47.23 /hr	189		0			0	45.60 /hr	182	0
759	02	20.		Sand - Ground Solutions	50.00 yd3	1,573			0	31.45 /yd3	1,573			0		0	0
760	02	20.		<b>Demo Pipe - Ductile Iron and Pumps</b>													
761	02	20.		Demo Pipe Hangers 8in	5.00 ea	84	2	55.78 /mh	84		0			0		0	0
762	02	20.		Demo Pipe Valves 8in	2.00 ea	134	2	55.78 /mh	134		0			0		0	0
763	02	20.		Demo Pipe Pieces 8in	8.00 ea	3,443	16	61.31 /mh	981		0			0	153.90 /ch	2,462	0
764	02	20.		Demo Pipe Fittings 8in	8.00 ea	298	5	55.78 /mh	298		0			0		0	0
765	02	20.		Pipe Cuts 8in	50.00 ea	1,608	25	64.33 /mh	1,608		0			0		0	0
766	02	20.		Demo Pipe Bollings 8in	20.00 ea	429	7	64.33 /mh	429		0			0		0	0
767	02	20.		Consumables Material @ \$15/hr	10.00 hr	150			0		0			0		0	150
768	02	20.	20.015	<b>Existing Wetwell</b>													
769	02	20.		<b>Sawcut Walls</b>													
770	02	20.		Setup / Remove for Sawcut	1.00 hr	47	1	47.23 /ch	47		0			0		0	0
771	02	20.		Saw Cut Wall Concrete 12in Thick	100.00 lf	1,736		47.23 /ch	0		0	17.36 /lf	17.36	1,736	163.02 /ch	0	0
772	02	20.		Setup / Remove Concrete	1.00 hr	47	1	47.23 /ch	47		0			0		0	0
773	02	20.		Break & Remove Concrete 12in Thick Average Reinforcing	300.00 sf	9,927		2.20 /sf	660		0	28.00 /sf	28.00	8,400	2.89 /sf	867	0
774	02	20.		<b>Excavate around vaults for saw cut</b>													
775	02	20.		Laborer	8.00 hr	378	8	47.23 /hr	378		0			0		0	0
776	02	20.		CAT 302 Excavator	8.00 hr	755	8	69.35 /hr	555		0			0	25.08 /hr	201	0
777	02	20.		CAT 345 Excavator - F/O	8.00 hr	1,594	8	69.35 /hr	555		0			0	129.96 /hr	1,040	0
778	02	20.		<b>Total excavation =</b>	<b>50.00 yd3</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
779	02	20.		<b>Hand backfill with Sand</b>													
780	02	20.		Laborer #1	40.00 hr	1,889	40	47.23 /hr	1,889		0			0		0	0
781	02	20.		Laborer #2	40.00 hr	1,889	40	47.23 /hr	1,889		0			0		0	0
782	02	20.		Laborer #3	40.00 hr	1,889	40	47.23 /hr	1,889		0			0		0	0
783	02	20.		Jumping Jack Compactor - F/O	40.00 hr	3,713	40	47.23 /hr	1,889		0			0	45.60 /hr	1,824	0
784	02	20.		Vibratory Plate Compactor - F/O	40.00 hr	3,713	40	47.23 /hr	1,889		0			0	45.60 /hr	1,824	0
785	02	20.		Sand - Ground Solutions	500.00 yd3	15,725			0	31.45 /yd3	15,725			0		0	0
786	02	20.	20.020	<b>Demo 8" Asbestos Waterline</b>													
787	02	20.		<b>Demo 8" Asbestos Waterline</b>													
788	02	20.		General Foreman	5.00 day	3,604	40	90.10 /mh	3,604		0			0		0	0
789	02	20.		Pipe Fitter #1	5.00 day	3,257	40	81.43 /mh	3,257		0			0		0	0
790	02	20.		Laborer #1	5.00 day	1,889	40	47.23 /mh	1,889		0			0		0	0
791	02	20.		Laborer #2	5.00 day	1,889	40	47.23 /mh	1,889		0			0		0	0
792	02	20.		Laborer #3	5.00 day	1,889	40	47.23 /mh	1,889		0			0		0	0
793	02	20.		Operating Engineer (backhoe) #1	5.00 day	2,774	40	69.35 /mh	2,774		0			0		0	0
794	02	20.		Backhoe #1 Day	5.00 day	1,596			0		0			0	319.20 /day	1,596	0
795	02	20.		Loader Cat 951 #1 Day	5.00 day	399			0		0			0	79.80 /day	399	0
796	02	20.		Tools #1 Day	5.00 day	137			0		0			0	27.36 /day	137	0
797	02	20.		<b>MSC. Material #1</b>	<b>1.00 ls</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
798	02	20.		Asbestos Pipe Abatement	225.00 LF	22,500			0		0	100.00 /LF	100.00	22,500		0	0
799	02	20.	20.025	<b>Demo Lift Station Notes 2 &amp; 4 Sheet D-101</b>													
800	02	20.		<b>Demo Existing Lift Station</b>													
801	02	20.		General Foreman	10.00 day	7,208	80	90.10 /mh	7,208		0			0		0	0
802	02	20.		Pipe Fitter #1	10.00 day	6,514	80	81.43 /mh	6,514		0			0		0	0
803	02	20.		Laborer #1	10.00 day	3,779	80	47.23 /mh	3,779		0			0		0	0
804	02	20.		Laborer #2	10.00 day	3,779	80	47.23 /mh	3,779		0			0		0	0



Row	Bid Item	Work Code	Est. Item	Description	Takeoff Quantity	Grand Total Amount	Labor Hours	Labor Price	Labor Amount	Material Cost/Unit	Material Amount	Sub Cost/Unit	Sub Price	Sub Amount	Equip Price	Equip Amount	Other Amount
805	02	20.		Laborer #3	10.00 day	3,779	80	47.23 /mh	3,779		0			0		0	0
806	02	20.		Operating Engineer (backhoe) #1	10.00 day	5,548	80	69.35 /mh	5,548		0			0		0	0
807	02	20.		Air Compressor #1 Day	10.00 day	2,736			0		0			0	273.60 /day	2,736	0
808	02	20.		Backhoe #1 Day	10.00 day	3,192			0		0			0	319.20 /day	3,192	0
809	02	20.		Confined Space Equipment #1 Day	10.00 day	1,000			0		0			0	100.00 /day	1,000	0
810	02	20.		Loader Cat 951 #1 Day	10.00 day	798			0		0			0	79.80 /day	798	0
811	02	20.		Tools #1 Day	10.00 day	274			0		0			0	27.36 /day	274	0
812	02	20.		CLSM - AG Industries	110.00 CY	11,550			0	105.00 /CY	11,550			0		0	0
813	02	20.		Sand Backfill - Ground Solutions	750.00 Tn	12,750			0	17.00 /Tn	12,750			0		0	0
814	02	20.		Electrical Demo	1.00 ls	5,000			0		0	5,000.00 /ls	5,000.00	5,000		0	0
815	02	20.	20.030	Remove Electrical Line													
816	02	20.		Remove Underground Electric													
817	02	20.		Electrical Sub	1.00 ls	3,500			0		0	3,500.00 /ls	3,500.00	3,500		0	0
818	03			<b>Division 3</b>													
819	03	01.		<b>Concrete</b>													
820	03	01.	03.000	<b>Wet Well</b>													
821	03	01.		<b>Gravel Fill under Grinder Slab</b>													
822	03	01.		General Foreman	1.00 day	721	8	90.10 /mh	721		0			0		0	0
823	03	01.		Laborer #1	2.00 day	756	16	47.23 /mh	756		0			0		0	0
824	03	01.		Laborer #2	2.00 day	756	16	47.23 /mh	756		0			0		0	0
825	03	01.		Laborer #3	2.00 day	756	16	47.23 /mh	756		0			0		0	0
826	03	01.		Operating Engineer (backhoe) #1	2.00 day	1,110	16	69.35 /mh	1,110		0			0		0	0
827	03	01.		Backhoe #1 Day	2.00 day	638			0		0			0	319.20 /day	638	0
828	03	01.		<b>Crane 50 ton (or 40 ton) #1 Day</b>	<b>2.00 day</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>	<b>/day</b>	<b>0</b>	<b>0</b>
829	03	01.		Earth Tamper/Wacker/Compactor #1 Day	2.00 day	237			0		0			0	118.56 /day	237	0
830	03	01.		Earth Tamper/Wacker/Compactor #2 Day	2.00 day	237			0		0			0	118.56 /day	237	0
831	03	01.		Earth Tamper/Wacker/Compactor #3 Day	2.00 day	237			0		0			0	118.56 /day	237	0
832	03	01.		Loader Cat 951 #1 Day	2.00 day	160			0		0			0	79.80 /day	160	0
833	03	01.		Service Truck #1 Day	2.00 day	456			0		0			0	228.00 /day	456	0
834	03	01.		Tools #1 Day	2.00 day	55			0		0			0	27.36 /day	55	0
835	03	01.		Base Course - Ground Solutions	400.00 tn	6,500			0	16.25 /tn	6,500			0		0	0
836	03	01.		Visqueen	375.00 sf	375			0	1.00 /sf	375			0		0	0
837	03	01.		<b>Base Slab</b>													
838	03	01.		Fine Grade - Mat Slab	1,276.00 sf	2,190	32	68.67 /mh	2,190		0			0		0	0
839	03	01.		Base Course - Ground Solutions	23.63 cy	1,738	12	47.23 /ch	558	30.00 /cy	709			0	39.90 /ch	471	0
840	03	01.		<b>Class II Base Bedding Rollup</b>	<b>23.63 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
841	03	01.		Edge Forms for Mat Foundation - forms used 2 times or more	438.00 sf	8,107	88	79.95 /mh	7,003	2.52 /sf	1,104			0		0	0
842	03	01.		Screeds SOG	1,276.00 sf	1,301	16	79.95 /mh	1,275	0.02 /sf	26			0		0	0
843	03	01.		Oil SOG Form	438.00 sf	57	0	79.95 /mh	40	0.04 /sf	18			0		0	0
844	03	01.		Chamfer - Foundation & Slab Forms	146.00 lf	320	3	79.95 /mh	276	0.30 /lf	44			0		0	0
845	03	01.		12" Void Form	1,276.00 sf	7,652	64	79.95 /mh	5,100	2.00 /sf	2,552			0		0	0
846	03	01.		4500 psi Concrete - AG Industries	155.96 cy	24,399			0	156.45 /cy	24,399			0		0	0
847	03	01.		Place Matt Foundation < 20 cyds	155.96 cy	10,709	156	68.67 /mh	10,709		0			0		0	0
848	03	01.		Concrete Vibrator	155.96 cy	390			0		0			0	2.50 /mh	390	0
849	03	01.		Finish- Broom - Mat Foundation	1,276.00 sf	1,337	17	55.75 /mh	936	0.20 /sf	255			0	39.90 /mh	146	0
850	03	01.		Cure - Filanc Generic - Mat Foundation	1,714.00 sf	479	5	55.75 /mh	273	0.12 /sf	206			0		0	0
851	03	01.		Seal Floors - Mat Foundation	1,276.00 sf	267	4	55.75 /mh	203	0.05 /sf	64			0		0	0
852	03	01.		Concrete Crane - Pouring Crane	28.85 mh	2,805	29	92.22 /mh	2,661	5.00 /mh	144			0	/mh	0	0
853	03	01.		Concrete Pump 58 Meter (188') Boom Straight Time	155.96 cy	5,305			0		0	34.01 /cy	34.01	5,305	/hr	0	0
854	03	01.		<b>Slab Concrete Rollup</b>	<b>155.96 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
855	03	01.		<b>All Concrete Rollup</b>	<b>155.96 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
856	03	01.		<b>Slab Horizontal Square Footage Rollup</b>	<b>2,552.00 sf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
857	03	01.		<b>Valve Pit Slab</b>													
858	03	01.		Fine Grade - Mat Slab	300.00 sf	108	2	68.67 /mh	108		0			0		0	0
859	03	01.		Base Course - Ground Solutions	5.56 cy	264	1	47.23 /ch	52	30.04 /cy	167			0	39.90 /ch	44	0
860	03	01.		<b>Class II Base Bedding Rollup</b>	<b>5.56 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
861	03	01.		Edge Forms for Mat Foundation - forms used 2 times or more	100.00 sf	1,291	13	79.95 /mh	1,039	2.52 /sf	252			0		0	0
862	03	01.		Screeds SOG	300.00 sf	306	4	79.95 /mh	300	0.02 /sf	6			0		0	0
863	03	01.		Oil SOG Form	100.00 sf	13	0	79.95 /mh	9	0.04 /sf	4			0		0	0
864	03	01.		Chamfer - Foundation & Slab Forms	100.00 lf	219	2	79.95 /mh	189	0.30 /lf	30			0		0	0
865	03	01.		Moistop for Mat Foundations	300.00 sf	63	1	79.95 /mh	48	0.05 /sf	15			0		0	0
866	03	01.		4500 psi Concrete - AG Industries	12.22 cy	1,912			0	156.45 /cy	1,912			0		0	0
867	03	01.		Place Matt Foundation < 20 cyds	12.22 cy	403	6	68.67 /mh	403		0			0		0	0
868	03	01.		Concrete Vibrator	12.22 cy	31			0		0			0	2.50 /mh	31	0
869	03	01.		Finish- Broom - Mat Foundation	300.00 sf	314	4	55.75 /mh	220	0.20 /sf	60			0	39.90 /mh	34	0
870	03	01.		Cure - Filanc Generic - Mat Foundation	400.00 sf	112	1	55.75 /mh	64	0.12 /sf	48			0		0	0
871	03	01.		Seal Floors - Mat Foundation	300.00 sf	63	1	55.75 /mh	48	0.05 /sf	15			0		0	0



LIFT STATION A REPLACEMENT  
95% Cost Model

Row	Bid Item	Work Code	Est. Item	Description	Takeoff Quantity	Grand Total Amount	Labor Hours	Labor Price	Labor Amount	Material Cost/Unit	Material Amount	Sub Cost/Unit	Sub Price	Sub Amount	Equip Price	Equip Amount	Other Amount
872	03	01.		Concrete Crane - Pouring Crane	2.26 /mh	220	2	92.22 /mh	209	5.00 /mh	11			0	/mh	0	0
873	03	01.		Concrete Pump 52 Meter (170') Boom Straight Time	12.22 cy	446			0			34.01 /cy	350.00	416		0	31
874	03	01.		<b>Slab Concrete Rollup</b>	<b>12.22 cy</b>	<b>0</b>			<b>0</b>	<b>0</b>	<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
875	03	01.		<b>All Concrete Rollup</b>	<b>12.22 cy</b>	<b>0</b>			<b>0</b>	<b>0</b>	<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
876	03	01.		<b>Slab Horizontal Square Footage Rollup</b>	<b>600.00 sf</b>	<b>0</b>			<b>0</b>	<b>0</b>	<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
877	03	01.		<b>Walls - 30" Thick</b>													
878	03	01.		Starter Wall Forms for Concrete Walls	176.00 /lf	1,158	12	79.95 /mh	938	1.25 /lf	220			0		0	0
879	03	01.		Handset Job Built Wall Forms with Plyform Level 5 (Hard Hard) - Greater than 8' tall	9,152.00 sf	212,977	2,288	79.95 /mh	182,914	3.00 /sf	27,456			0	39.90 /mh	2,607	0
880	03	01.		Oil Wall Forms	9,572.00 sf	1,255	11	79.95 /mh	872	0.04 /sf	383			0		0	0
881	03	01.		Blockout Forms for Wall Opening > 36 inches Sq.	30.00 sf	1,253	15	79.95 /mh	1,199	1.50 /sf	45			0	39.90 /mh	9	0
882	03	01.		Keyway for Horizontal Construction Joints - Walls	176.00 /lf	2,953	35	79.95 /mh	2,814	0.79 /lf	139			0		0	0
883	03	01.		Keyway for Vertical Construction Joints - Walls	156.00 /lf	3,241	39	79.95 /mh	3,118	0.79 /lf	123			0		0	0
884	03	01.		Construction Joint Forms - Wall Forms	390.00 sf	11,516	128	79.95 /mh	10,235	3.00 /sf	1,170			0	39.90 /mh	111	0
885	03	01.		Sealant at Control Joint	312.00 /lf	6,124	62	79.95 /mh	4,989	2.50 /lf	780			0	39.90 /mh	356	0
886	03	01.		4500 psi Concrete - AG Industries	436.42 cy	68,277			0	156.45 /cy	68,277			0		0	0
887	03	01.		Place Walls > 20 cyds	436.42 cy	13,485	196	68.67 /mh	13,485		0			0		0	0
888	03	01.		Concrete Vibrator	436.42 cy	1,091			0		0			0	2.50 /mh	1,091	0
889	03	01.	F3 - Remove Fins, Offsets, Cure Membrane, Grind Projections Smooth. Fill Depressions 1/4 in or larger, Tie Holes w/mortar	4,576.00 sf	27,372	458	55.75 /mh	25,509	0.35 /sf	1,602				0	39.90 /mh	261	0
890	03	01.		Sandblasting - Wall Bottoms & Top of Wall	440.00 sf	2,339	44	47.23 /mh	2,078	0.08 /sf	35			0	39.90 /mh	226	0
891	03	01.		Sandblasting - Wall Vertical Joints	390.00 sf	2,073	39	47.23 /mh	1,842	0.08 /sf	31			0	39.90 /mh	200	0
892	03	01.		Cure - Filanc Generic	9,572.00 sf	2,673	27	55.75 /mh	1,525	0.12 /sf	1,149			0		0	0
893	03	01.		Waterstop Bulb PVC - Labor Only	352.00 /lf	2,002	35	55.75 /mh	1,962		0			0	39.90 /mh	40	0
894	03	01.		Waterstop Bulb PVC - Material Only	352.00 /lf	1,760			0	5.00 /lf	1,760			0		0	0
895	03	01.		Waterstop Bulb PVC - Vertical Labor Only - Wall	156.00 /lf	2,192	39	55.75 /mh	2,174		0			0	39.90 /mh	18	0
896	03	01.		Waterstop Bulb PVC - Vertical Material Only - Wall	156.00 /lf	780			0	5.00 /lf	780			0		0	0
897	03	01.		Concrete Crane - Formwork Hoisting	20.43 /mh	1,986	20	92.22 /mh	1,884	5.00 /mh	102			0	/mh	0	0
898	03	01.		Concrete Crane - Pouring Crane	80.74 /mh	7,849	81	92.22 /mh	7,446	5.00 /mh	404			0	/mh	0	0
899	03	01.		<b>Concrete Pump 58 Meter (188') Boom Straight Time</b>	<b>436.42 cy</b>	<b>0</b>			<b>0</b>	<b>0</b>	<b>0</b>			<b>0</b>	<b>/hr</b>	<b>0</b>	<b>0</b>
900	03	01.		<b>Wall Concrete Rollup</b>	<b>436.42 cy</b>	<b>0</b>			<b>0</b>	<b>0</b>	<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
901	03	01.		<b>All Concrete Rollup</b>	<b>436.42 cy</b>	<b>0</b>			<b>0</b>	<b>0</b>	<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
902	03	01.		<b>Wall Contact Square Footage Rollup</b>	<b>9,152.00 sf</b>	<b>0</b>			<b>0</b>	<b>0</b>	<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
903	03	01.		<b>Wall Summary Lineal Footage Rollup</b>	<b>176.00 lf</b>	<b>0</b>			<b>0</b>	<b>0</b>	<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
904	03	01.		<b>Wall Summary Square Footage Rollup</b>	<b>4,576.00 sf</b>	<b>0</b>			<b>0</b>	<b>0</b>	<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
905	03	01.		<b>Walls - 14" Thick</b>													
906	03	01.		Starter Wall Forms for Concrete Walls	181.00 /lf	607	5	79.95 /mh	381	1.25 /lf	226			0		0	0
907	03	01.		Handset Job Built Wall Forms with Plyform Level 3 (Hard Easy) - Less than 8 feet tall	2,896.00 sf	32,665	290	79.95 /mh	23,152	3.00 /sf	8,688			0	39.90 /mh	825	0
908	03	01.		Oil Wall Forms	2,952.16 sf	387	3	79.95 /mh	269	0.04 /sf	118			0		0	0
909	03	01.		Keyway for Horizontal Construction Joints - Walls	181.00 /lf	794	8	79.95 /mh	651	0.79 /lf	143			0		0	0
910	03	01.		Keyway for Vertical Construction Joints - Walls	48.00 /lf	210	2	79.95 /mh	173	0.79 /lf	38			0		0	0
911	03	01.		Chamfer - Wall	32.00 /lf	48	0	79.95 /mh	38	0.30 /lf	10			0		0	0
912	03	01.		Construction Joint Forms - Wall Forms	56.16 sf	1,658	18	79.95 /mh	1,474	3.00 /sf	168			0	39.90 /mh	16	0
913	03	01.		Sealant at Control Joint	96.00 /lf	1,202	11	79.95 /mh	853	2.50 /lf	240			0	39.90 /mh	109	0
914	03	01.		4500 psi Concrete - AG Industries	64.63 cy	10,111			0	156.45 /cy	10,111			0		0	0
915	03	01.		Place Walls > 20 cyds	64.63 cy	1,997	29	68.67 /mh	1,997		0			0		0	0
916	03	01.		Concrete Vibrator	64.63 cy	162			0		0			0	2.50 /mh	162	0
917	03	01.	F3 - Remove Fins, Offsets, Cure Membrane, Grind Projections Smooth. Fill Depressions 1/4 in or larger, Tie Holes w/mortar	1,448.00 sf	8,661	145	55.75 /mh	8,072	0.35 /sf	507				0	39.90 /mh	83	0
918	03	01.		Sandblasting - Wall Bottoms & Top of Wall	211.77 sf	1,126	21	47.23 /mh	1,000	0.08 /sf	17			0	39.90 /mh	109	0
919	03	01.		Sandblasting - Wall Vertical Joints	56.16 sf	299	6	47.23 /mh	265	0.08 /sf	4			0	39.90 /mh	29	0
920	03	01.		Cure - Filanc Generic	2,952.16 sf	824	8	55.75 /mh	470	0.12 /sf	354			0		0	0
921	03	01.		Waterstop Bulb PVC - Labor Only	362.00 /lf	2,059	36	55.75 /mh	2,018		0			0	39.90 /mh	41	0
922	03	01.		Waterstop Bulb PVC - Material Only	362.00 /lf	1,810			0	5.00 /lf	1,810			0		0	0
923	03	01.		Waterstop Bulb PVC - Vertical Labor Only - Wall	48.00 /lf	273	5	55.75 /mh	268		0			0	39.90 /mh	5	0
924	03	01.		Waterstop Bulb PVC - Vertical Material Only - Wall	48.00 /lf	240			0	5.00 /lf	240			0		0	0
925	03	01.		Concrete Crane - Formwork Hoisting	6.46 /mh	628	6	92.22 /mh	596	5.00 /mh	32			0	/mh	0	0
926	03	01.		Concrete Crane - Pouring Crane	11.96 /mh	1,162	12	92.22 /mh	1,103	5.00 /mh	60			0	/mh	0	0
927	03	01.		Concrete Pump 52 Meter (170') Boom Straight Time	64.63 cy	2,360			0		0	34.01 /cy	350.00	2,198		0	162
928	03	01.		<b>Wall Concrete Rollup</b>	<b>64.63 cy</b>	<b>0</b>			<b>0</b>	<b>0</b>	<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
929	03	01.		<b>All Concrete Rollup</b>	<b>64.63 cy</b>	<b>0</b>			<b>0</b>	<b>0</b>	<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
930	03	01.		<b>Wall Contact Square Footage Rollup</b>	<b>2,896.00 sf</b>	<b>0</b>			<b>0</b>	<b>0</b>	<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
931	03	01.		<b>Wall Summary Lineal Footage Rollup</b>	<b>181.00 lf</b>	<b>0</b>			<b>0</b>	<b>0</b>	<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
932	03	01.		<b>Wall Summary Square Footage Rollup</b>	<b>1,448.00 sf</b>	<b>0</b>			<b>0</b>	<b>0</b>	<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
933	03	01.		<b>Grinder Channels</b>													
934	03	01.		Starter Wall Forms for Concrete Walls	35.00 /lf	117	1	79.95 /mh	74	1.25 /lf	44			0		0	0
935	03	01.		Handset Job Built Wall Forms with Plyform Level 5 (Hard Hard) - Less than 8 feet tall	420.00 sf	11,117	122	79.95 /mh	9,737	3.00 /sf	1,260			0	39.90 /mh	120	0
936	03	01.		Oil Wall Forms	420.00 sf	55	0	79.95 /mh	38	0.04 /sf	17			0		0	0
937	03	01.		Keyway for Horizontal Construction Joints - Walls	35.00 /lf	153	2	79.95 /mh	126	0.79 /lf	28			0		0	0
938	03	01.		Chamfer - Wall	24.00 /lf	36	0	79.95 /mh	29	0.30 /lf	7			0		0	0



Row	Bid Item	Work Code	Est. Item	Description	Takeoff Quantity	Grand Total Amount	Labor Hours	Labor Price	Labor Amount	Material Cost/Unit	Material Amount	Sub Cost/Unit	Sub Price	Sub Amount	Equip Price	Equip Amount	Other Amount
939	03	01.		4500 psi Concrete - AG Industries	60.00 cy	9,387			0	156.45 /cy	9,387			0		0	0
940	03	01.		Place Walls > 20 cyds	60.00 cy	1,854	27	68.67 /mh	1,854		0			0		0	0
941	03	01.		Concrete Vibrator	60.00 cy	150			0		0			0	2.50 /mh	150	0
942	03	01.	F3 - Remove Fins, Offsets, Cure Membrane, Grind Projections Smooth. Fill Depressions 1/4 in or larger, Tie Holes w/mortar		210.00 sf	706	11	55.75 /mh	620	0.35 /sf	74			0	39.90 /mh	12	0
943	03	01.		Sandblasting - Wall Bottoms & Top of Wall	315.00 sf	497	7	47.23 /mh	310	0.08 /sf	25			0	39.90 /mh	162	0
944	03	01.		Cure - Filanc Generic	420.00 sf	117	1	55.75 /mh	67	0.12 /sf	50			0		0	0
945	03	01.		Concrete Crane - Formwork Hoisting	0.94 mh	91	1	92.22 /mh	87	5.00 /mh	5			0	/mh	0	0
946	03	01.		Concrete Crane - Pouring Crane	13.34 mh	1,297	13	92.22 /mh	1,230	5.00 /mh	67			0	/mh	0	0
947	03	01.		Concrete Pump 52 Meter (170') Boom Straight Time	60.00 cy	2,191			0		0	34.01 /cy	350.00	2,041		0	150
948	03	01.		<b>Wall Concrete Rollup</b>	<b>60.00 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
949	03	01.		<b>All Concrete Rollup</b>	<b>60.00 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
950	03	01.		<b>Wall Contact Square Footage Rollup</b>	<b>420.00 sf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
951	03	01.		<b>Wall Summary Lineal Footage Rollup</b>	<b>35.00 lf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
952	03	01.		<b>Wall Summary Square Footage Rollup</b>	<b>210.00 sf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
953	03	01.		<b>Suspended Deck over Valve Pit &amp; Pump Pit</b>													
954	03	01.		Safety - Perimeter Protection - Concrete Crew	112.00 LF	566	3	79.95 /mh	224	3.00 /LF	336			0	39.90 /mh	6	0
955	03	01.		Safety - Perimeter Protection - GC	112.00 LF	566	3	79.95 /mh	224	3.00 /LF	336			0	39.90 /mh	6	0
956	03	01.		Safety - Tie-Off straps around perimeter of bldg. / GC	1.00 LF	4	0	79.95 /mh	1	2.92 /LF	3			0	39.90 /mh	0	0
957	03	01.		Reshoring Solid Slabs	559.00 sf	768	2	79.95 /mh	153	0.20 /sf	112	/sf		0	0.90 /sf	503	0
958	03	01.		Form Suspended Slab 0-12ft Working Height	559.00 sf	30,762	280	79.95 /mh	22,345	15.00 /sf	8,385			0	39.90 /mh	32	0
959	03	01.		Edge Form for Suspended Slab 0-12 feet	112.00 sf	1,495	16	79.95 /mh	1,254	2.10 /sf	235			0	39.90 /mh	6	0
960	03	01.		Equipment Rental for Suspended Slab 0-12 feet	559.00 sf	1,677			0		0	/sf		0	1.00 /sf	559	1,118
961	03	01.		Oil Suspended Slab Frm	727.00 sf	95	1	79.95 /mh	66	0.04 /sf	29			0		0	0
962	03	01.		Blockout Forms for Floor Opening - Suspended Slab	56.00 sf	864	10	79.95 /mh	777	1.50 /sf	84			0	39.90 /mh	3	0
963	03	01.		Screeds for Concrete - Suspended Slab	559.00 sf	195	2	79.95 /mh	184	0.02 /sf	11			0		0	0
964	03	01.		Chamfer - Suspended Slab	112.00 lf	246	3	79.95 /mh	212	0.30 /lf	34			0		0	0
965	03	01.		4500 psi Concrete - AG Industries	19.49 cy	3,050			0	156.45 /cy	3,050			0		0	0
966	03	01.		Place Suspended Slab < 20 cyds	19.49 cy	736	11	68.67 /mh	736		0			0		0	0
967	03	01.		Concrete Vibrator	19.49 cy	49			0		0			0	2.50 /mh	49	0
968	03	01.		Finish- Hard Trowel	559.00 sf	586	7	55.75 /mh	410	0.20 /sf	112			0	39.90 /mh	64	0
969	03	01.	F3 - Remove Fins, Offsets, Cure Membrane, Grind Projections Smooth. Fill Depressions 1/4 in or larger, Tie Holes w/mortar		112.00 sf	376	6	55.75 /mh	331	0.35 /sf	39			0	39.90 /mh	6	0
970	03	01.		Cure - Filanc Generic	1,286.00 sf	359	4	55.75 /mh	205	0.12 /sf	154			0		0	0
971	03	01.		Concrete Crane - Pouring Crane	3.50 mh	340	4	92.22 /mh	323	5.00 /mh	18			0	/mh	0	0
972	03	01.		Concrete Pump 52 Meter (170') Boom Straight Time	19.49 cy	712			0		0	34.01 /cy	350.00	663		0	49
973	03	01.		<b>Deck Slab Concrete Rollup</b>	<b>19.49 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
974	03	01.		<b>All Concrete Rollup</b>	<b>19.49 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
975	03	01.		<b>Slab Horizontal Square Footage Rollup</b>	<b>559.00 sf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
976	03	01.		<b>Suspended Deck over Wet Well</b>													
977	03	01.		Safety - Perimeter Protection - Concrete Crew	104.00 LF	1,149	10	79.95 /mh	831	3.00 /LF	312			0	39.90 /mh	6	0
978	03	01.		Safety - Perimeter Protection - GC	104.00 LF	1,149	10	79.95 /mh	831	3.00 /LF	312			0	39.90 /mh	6	0
979	03	01.		Safety - Tie-Off straps around perimeter of bldg. / GC	1.00 LF	810	10	79.95 /mh	799	7.00 /LF	7			0	39.90 /mh	4	0
980	03	01.		Reshoring Solid Slabs	675.00 sf	2,901	27	79.95 /mh	2,159	0.20 /sf	135	/sf		0	0.90 /sf	608	0
981	03	01.		Form Suspended Slab 20ft + Working Height	675.00 sf	26,352	203	79.95 /mh	16,189	15.00 /sf	10,125			0	39.90 /mh	39	0
982	03	01.		Edge Form Suspended Slab 20 +	104.00 sf	2,334	26	79.95 /mh	2,079	2.40 /sf	250			0	39.90 /mh	6	0
983	03	01.		Equipment Rental for Suspended Slab 20 +	675.00 sf	2,363			0		0	/sf		0	1.75 /sf	1,181	1,181
984	03	01.		Oil Suspended Slab Frm	779.00 sf	102	1	79.95 /mh	71	0.04 /sf	31			0		0	0
985	03	01.		Screeds for Concrete - Suspended Slab	675.00 sf	236	3	79.95 /mh	222	0.02 /sf	14			0		0	0
986	03	01.		Chamfer - Suspended Slab	104.00 lf	2,110	26	79.95 /mh	2,079	0.30 /lf	31			0		0	0
987	03	01.		4500 psi Concrete - AG Industries	25.75 cy	4,029			0	156.45 /cy	4,029			0		0	0
988	03	01.		Place Suspended Slab 20 to 100 cyds	25.75 cy	1,768	26	68.67 /mh	1,768		0			0		0	0
989	03	01.		Concrete Vibrator	25.75 cy	64			0		0			0	2.50 /mh	64	0
990	03	01.		Finish- Hard Trowel	675.00 sf	707	9	55.75 /mh	495	0.20 /sf	135			0	39.90 /mh	77	0
991	03	01.	F3 - Remove Fins, Offsets, Cure Membrane, Grind Projections Smooth. Fill Depressions 1/4 in or larger, Tie Holes w/mortar		779.00 sf	2,619	41	55.75 /mh	2,302	0.35 /sf	273			0	39.90 /mh	44	0
992	03	01.		Cure - Filanc Generic	1,468.00 sf	410	4	55.75 /mh	234	0.12 /sf	176			0		0	0
993	03	01.		Concrete Crane - Pouring Crane	4.63 mh	450	5	92.22 /mh	427	5.00 /mh	23			0	/mh	0	0
994	03	01.		Concrete Pump 52 Meter (170') Boom Straight Time	25.75 cy	940			0		0	34.01 /cy	350.00	876		0	64
995	03	01.		<b>Deck Slab Concrete Rollup</b>	<b>25.75 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
996	03	01.		<b>All Concrete Rollup</b>	<b>25.75 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
997	03	01.		<b>Slab Horizontal Square Footage Rollup</b>	<b>675.00 sf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
998	03	01.	03.005	<b>Leak test of Wet Well</b>													
999	03	01.		<b>Preload (48 hours)</b>													
1000	03	01.		General Foreman	3.00 day	2,162	24	90.10 /mh	2,162		0			0		0	0
1001	03	01.		Laborer #1	3.00 day	1,134	24	47.23 /mh	1,134		0			0		0	0
1002	03	01.		Laborer #2	3.00 day	1,134	24	47.23 /mh	1,134		0			0		0	0
1003	03	01.		Discharge Hose 6"x50' #1 Day	3.00 day	137			0		0			0	45.60 /day	137	0
1004	03	01.		Discharge Hose 6"x50' #2 Day	3.00 day	137			0		0			0	45.60 /day	137	0
1005	03	01.		Discharge Hose 6"x50' #3 Day	3.00 day	137			0		0			0	45.60 /day	137	0



Row	Bid Item	Work Code	Est. Item	Description	Takeoff Quantity	Grand Total Amount	Labor Hours	Labor Price	Labor Amount	Material Cost/Unit	Material Amount	Sub Cost/Unit	Sub Price	Sub Amount	Equip Price	Equip Amount	Other Amount
1006	03	01.		Tools #1 Day	3.00 day	82			0		0			0	27.36 /day	82	0
1007	03	01.		Water (64,000 gal x \$20.00/1000 gal)	64.00 ea	1,280			0	20.00 /ea	1,280			0		0	0
1008	03	01.		<b>Test</b>													
1009	03	01.		General Foreman	1.00 day	721	8	90.10 /mh	721		0			0		0	0
1010	03	01.		Tools #1 Day	3.00 day	82			0		0			0	27.36 /day	82	0
1011	03	01.		<b>Injection Repair Allowance</b>													
1012	03	01.		General Foreman	5.00 day	3,604	40	90.10 /mh	3,604		0			0		0	0
1013	03	01.		Carpenter #1	5.00 day	3,198	40	79.95 /mh	3,198		0			0		0	0
1014	03	01.		Laborer #1	5.00 day	1,889	40	47.23 /mh	1,889		0			0		0	0
1015	03	01.		Laborer #2	5.00 day	1,889	40	47.23 /mh	1,889		0			0		0	0
1016	03	01.		Discharge Hose 6"x50' #1 Day	5.00 day	228			0		0			0	45.60 /day	228	0
1017	03	01.		Discharge Hose 6"x50' #2 Day	5.00 day	228			0		0			0	45.60 /day	228	0
1018	03	01.		Discharge Hose 6"x50' #3 Day	5.00 day	228			0		0			0	45.60 /day	228	0
1019	03	01.		Suction Hose 6"x20' #1 Day	5.00 day	365			0		0			0	72.96 /day	365	0
1020	03	01.		Suction Hose 6"x20' #2 Day	5.00 day	365			0		0			0	72.96 /day	365	0
1021	03	01.		Tools #1 Day	5.00 day	137			0		0			0	27.36 /day	137	0
1022	03	01.		Trailer Mounted Pump #1 Day	5.00 day	958			0		0			0	191.52 /day	958	0
1023	03	01.		Epoxy Injection Materials and Tools	2.00 ls	5,000			0	2,000.00 /ls	4,000			0		0	1,000
1024	03	01.		Water (64,000 gal x \$20.00/1000 gal)	64.00 EA	1,280			0	20.00 /EA	1,280			0		0	0
1025	03	01.		<b>MSC. Material #3</b>	<b>1.00 ls</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1026	03	01.	03.010	<b>Meter Vault</b>													
1027	03	01.		<b>Base Slab</b>													
1028	03	01.		Fine Grade - Mat Slab	264.00 sf	363	5	68.67 /mh	363		0			0		0	0
1029	03	01.		Base Course - Ground Solutions	4.89 cy	573	5	47.23 /ch	231	30.04 /cy	147			0	39.90 /ch	195	0
1030	03	01.		<b>Class II Base Bedding Rollup</b>	<b>4.89 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1031	03	01.		Edge Forms for Mat Foundation - forms used 2 times or more	68.00 sf	1,259	14	79.95 /mh	1,087	2.52 /sf	171			0		0	0
1032	03	01.		Screeds SOG	264.00 sf	269	3	79.95 /mh	264	0.02 /sf	5			0		0	0
1033	03	01.		Oil SOG Form	68.00 sf	9	0	79.95 /mh	6	0.04 /sf	3			0		0	0
1034	03	01.		Chamfer - Foundation & Slab Forms	68.00 lf	149	2	79.95 /mh	129	0.30 /lf	20			0		0	0
1035	03	01.		4500 psi Concrete - AG Industries	10.76 cy	1,683			0	156.45 /cy	1,683			0		0	0
1036	03	01.		Place Matt Foundation < 20 cyds	10.76 cy	355	5	68.67 /mh	355		0			0		0	0
1037	03	01.		Concrete Vibrator	10.76 cy	27			0		0			0	2.50 /mh	27	0
1038	03	01.		Finish- Hard Trowel - Mat Foundation	264.00 sf	277	3	55.75 /mh	194	0.20 /sf	53			0	39.90 /mh	30	0
1039	03	01.		Cure - Filanc Generic - Mat Foundation	332.00 sf	93	1	55.75 /mh	53	0.12 /sf	40			0		0	0
1040	03	01.		Seal Floors - Mat Foundation	264.00 sf	55	1	55.75 /mh	42	0.05 /sf	13			0		0	0
1041	03	01.		Concrete Crane - Pouring Crane	1.99 mh	193	2	92.22 /mh	184	5.00 /mh	10			0	/mh	0	0
1042	03	01.		Concrete Pump 52 Meter (170') Boom Straight Time	10.76 cy	393			0		0	34.01 /cy	350.00	366		0	27
1043	03	01.		<b>Slab Concrete Rollup</b>	<b>10.76 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1044	03	01.		<b>All Concrete Rollup</b>	<b>10.76 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1045	03	01.		<b>Slab Horizontal Square Footage Rollup</b>	<b>264.00 sf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1046	03	01.		<b>Walls - 1' Thick</b>													
1047	03	01.		Starter Wall Forms for Concrete Walls	60.00 lf	201	2	79.95 /mh	126	1.25 /lf	75			0		0	0
1048	03	01.		Handset Job Built Wall Forms with Plyform Level 3 (Hard Easy) - Greater than 8' tall	1,560.00 sf	25,079	250	79.95 /mh	19,954	3.00 /sf	4,680			0	39.90 /mh	445	0
1049	03	01.		Oil Wall Forms	1,560.00 sf	205	2	79.95 /mh	142	0.04 /sf	62			0		0	0
1050	03	01.		Keyway for Horizontal Construction Joints - Walls	60.00 lf	263	3	79.95 /mh	216	0.79 /lf	47			0		0	0
1051	03	01.		4500 psi Concrete - AG Industries	29.76 cy	4,655			0	156.45 /cy	4,655			0		0	0
1052	03	01.		Place Walls > 20 cyds	29.76 cy	919	13	68.67 /mh	919		0			0		0	0
1053	03	01.		Concrete Vibrator	29.76 cy	74			0		0			0	2.50 /mh	74	0
1054	03	01.	F3 - Remove Fins, Offsets, Cure Membrane, Grind Projections Smooth. Fill Depressions 1/4 in or larger, Tie Holes w/mortar	780.00 sf	2,622	41	55.75 /mh	2,305	0.35 /sf	273			0	39.90 /mh	45	0	0
1055	03	01.		Sandblasting - Wall Bottoms & Top of Wall	60.00 sf	95	1	47.23 /mh	59	0.08 /sf	5			0	39.90 /mh	31	0
1056	03	01.		Cure - Filanc Generic	1,560.00 sf	436	4	55.75 /mh	248	0.12 /sf	187			0		0	0
1057	03	01.		Waterstop Bulb PVC - Labor Only	60.00 lf	341	6	55.75 /mh	334		0			0	39.90 /mh	7	0
1058	03	01.		Waterstop Bulb PVC - Material Only	60.00 lf	300			0	5.00 /lf	300			0		0	0
1059	03	01.		Concrete Crane - Formwork Hoisting	3.48 mh	339	3	92.22 /mh	321	5.00 /mh	17			0	/mh	0	0
1060	03	01.		Concrete Crane - Pouring Crane	5.51 mh	535	6	92.22 /mh	508	5.00 /mh	28			0	/mh	0	0
1061	03	01.		Concrete Pump 52 Meter (170') Boom Straight Time	29.76 cy	1,087			0		0	34.01 /cy	350.00	1,012		0	74
1062	03	01.		<b>Wall Concrete Rollup</b>	<b>29.76 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1063	03	01.		<b>All Concrete Rollup</b>	<b>29.76 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1064	03	01.		<b>Wall Contact Square Footage Rollup</b>	<b>1,560.00 sf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1065	03	01.		<b>Wall Summary Lineal Footage Rollup</b>	<b>60.00 lf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1066	03	01.		<b>Wall Summary Square Footage Rollup</b>	<b>780.00 sf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1067	03	01.		<b>Suspended Slab</b>													
1068	03	01.		Safety - Perimeter Protection - Concrete Crew	68.00 LF	752	7	79.95 /mh	544	3.00 /LF	204			0	39.90 /mh	4	0
1069	03	01.		Safety - Perimeter Protection - GC	68.00 LF	752	7	79.95 /mh	544	3.00 /LF	204			0	39.90 /mh	4	0
1070	03	01.		Safety - Tie-Off straps around perimeter of bldg / GC	1.00 LF	11	0	79.95 /mh	8	2.92 /LF	3			0	39.90 /mh	0	0
1071	03	01.		Reshoring Solid Slabs	264.00 sf	1,135	11	79.95 /mh	844	0.20 /sf	53		/sf	0	0.90 /sf	238	0
1072	03	01.		Form Suspended Slab 0-12ft Working Height	264.00 sf	5,819	66	79.95 /mh	5,276	2.00 /sf	528			0	39.90 /mh	15	0





Row	Bid Item	Work Code	Est. Item	Description	Takeoff Quantity	Grand Total Amount	Labor Hours	Labor Price	Labor Amount	Material Cost/Unit	Material Amount	Sub Cost/Unit	Sub Price	Sub Amount	Equip Price	Equip Amount	Other Amount
1073	03	01.		Edge Form for Suspended Slab 0-12 feet	68.00 sf	908	10	79.95 /mh	761	2.10 /sf	143			0	39.90 /mh	4	0
1074	03	01.		Equipment Rental for Suspended Slab 0-12 feet	264.00 sf	792			0		0	/sf		0	1.00 /sf	264	528
1075	03	01.		Oil Suspended Slab Frm	346.00 sf	45	0	79.95 /mh	32	0.04 /sf	14			0		0	0
1076	03	01.		Blockout Forms for Floor Opening - Suspended Slab	14.00 sf	216	2	79.95 /mh	194	1.50 /sf	21			0	39.90 /mh	1	0
1077	03	01.		Screeds for Concrete - Suspended Slab	264.00 sf	92	1	79.95 /mh	87	0.02 /sf	5			0		0	0
1078	03	01.		Chamfer - Suspended Slab	68.00 lf	149	2	79.95 /mh	129	0.30 /lf	20			0		0	0
1079	03	01.		4500 psi Concrete - AG Industries	9.61 cy	1,504			0	156.45 /cy	1,504			0		0	0
1080	03	01.		Place Suspended Slab < 20 cyds	9.61 cy	363	5	68.67 /mh	363		0			0		0	0
1081	03	01.		Concrete Vibrator	9.61 cy	24			0		0			0	2.50 /mh	24	0
1082	03	01.		Finish- Hard Trowel	264.00 sf	277	3	55.75 /mh	194	0.20 /sf	53			0	39.90 /mh	30	0
1083	03	01.	F3 - Remove Fins, Offsets, Cure Membrane, Grind Projections Smooth, Fill Depressions 1/4 in or larger, Tie Holes w/mortar	264.00 sf	887	14	55.75 /mh	780	0.35 /sf	92				0	39.90 /mh	15	0
1084	03	01.		Cure - Filanc Generic	610.00 sf	170	2	55.75 /mh	97	0.12 /sf	73			0		0	0
1085	03	01.		Concrete Crane - Pouring Crane	1.73 mh	168	2	92.22 /mh	159	5.00 /mh	9			0	/mh	0	0
1086	03	01.		Concrete Pump 52 Meter (170') Boom Straight Time	9.61 cy	351			0		0	34.01 /cy	350.00	327		0	24
1087	03	01.		<b>Deck Slab Concrete Rollup</b>	<b>9.61 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1088	03	01.		<b>All Concrete Rollup</b>	<b>9.61 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1089	03	01.		<b>Slab Horizontal Square Footage Rollup</b>	<b>264.00 sf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1090	03	01.	03.020	<b>Elect. Enclosure Foundation</b>													
1091	03	01.		<b>Footing</b>													
1092	03	01.		Fine Grade - Footing	200.00 sf	72	1	68.67 /mh	72		0			0		0	0
1093	03	01.		Base Course - Ground Solutions	3.70 cy	176	1	47.23 /ch	35	30.04 /cy	111			0	39.90 /ch	30	0
1094	03	01.		<b>Class II Base Bedding Rollup</b>	<b>3.70 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1095	03	01.		Footing Forms < 12 inches - Continuous	200.00 sf	2,616	26	79.95 /mh	2,079	2.40 /sf	480			0	39.90 /mh	57	0
1096	03	01.		Oil Foundation Forms	200.00 sf	26	0	79.95 /mh	18	0.04 /sf	8			0		0	0
1097	03	01.		4500 psi Concrete - AG Industries	8.15 cy	1,275			0	156.45 /cy	1,275			0		0	0
1098	03	01.		Place Footings < 20 cyds	8.15 cy	269	4	68.67 /mh	269		0			0		0	0
1099	03	01.		Concrete Vibrator	8.15 cy	20			0		0			0	2.50 /mh	20	0
1100	03	01.		Cure - Filanc Generic	200.00 sf	56	1	55.75 /mh	32	0.12 /sf	24			0		0	0
1101	03	01.		Concrete Crane - Pouring Crane	1.51 mh	147	2	92.22 /mh	139	5.00 /mh	8			0	/mh	0	0
1102	03	01.		Concrete Pump 52 Meter (170') Boom Straight Time	8.15 cy	298			0		0	34.01 /cy	350.00	277		0	20
1103	03	01.		<b>Footing Concrete Rollup</b>	<b>8.15 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1104	03	01.		<b>All Concrete Rollup</b>	<b>8.15 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1105	03	01.		<b>Stem Walls</b>													
1106	03	01.		Handset Job Built Wall Forms with Plyform Level 3 (Hard Easy) - Less than 8 feet tall	678.00 sf	15,778	170	79.95 /mh	13,551	3.00 /sf	2,034			0	39.90 /mh	193	0
1107	03	01.		Oil Wall Forms	684.00 sf	90	1	79.95 /mh	62	0.04 /sf	27			0		0	0
1108	03	01.		Keyway for Horizontal Construction Joints - Walls	113.00 lf	496	5	79.95 /mh	407	0.79 /lf	89			0		0	0
1109	03	01.		Keyway for Vertical Construction Joints - Walls	6.00 lf	26	0	79.95 /mh	22	0.79 /lf	5			0		0	0
1110	03	01.		Chamfer - Wall	338.00 lf	507	5	79.95 /mh	405	0.30 /lf	101			0		0	0
1111	03	01.		Anchor w/Steel Plate	10.00 ea	500			0	50.00 /ea	500			0		0	0
1112	03	01.		Wall Anchors Installed	10.00 ea	314	4	79.95 /mh	314		0			0		0	0
1113	03	01.		Construction Joint Forms - Wall Forms	6.00 sf	177	2	79.95 /mh	157	3.00 /sf	18			0	39.90 /mh	2	0
1114	03	01.		Sealant at Control Joint	12.00 lf	150	1	79.95 /mh	107	2.50 /lf	30			0	39.90 /mh	14	0
1115	03	01.		4500 psi Concrete - AG Industries	12.93 cy	2,023			0	156.45 /cy	2,023			0		0	0
1116	03	01.		Place Walls 4 to 20 cyds	12.93 cy	444	6	68.67 /mh	444		0			0		0	0
1117	03	01.		Concrete Vibrator	12.93 cy	32			0		0			0	2.50 /mh	32	0
1118	03	01.		Sandblasting - Wall Bottoms & Top of Wall	113.00 sf	178	2	47.23 /mh	111	0.08 /sf	9			0	39.90 /mh	58	0
1119	03	01.		Sandblasting - Wall Vertical Joints	6.00 sf	9	0	47.23 /mh	6	0.08 /sf	0			0	39.90 /mh	3	0
1120	03	01.		Cure - Filanc Generic	684.00 sf	191	2	55.75 /mh	109	0.12 /sf	82			0		0	0
1121	03	01.		Concrete Crane - Formwork Hoisting	1.51 mh	147	2	92.22 /mh	140	5.00 /mh	8			0	/mh	0	0
1122	03	01.		Concrete Crane - Pouring Crane	2.39 mh	233	2	92.22 /mh	221	5.00 /mh	12			0	/mh	0	0
1123	03	01.		Concrete Pump 52 Meter (170') Boom Straight Time	12.93 cy	472			0		0	34.01 /cy	350.00	440		0	32
1124	03	01.		<b>Wall Concrete Rollup</b>	<b>12.93 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1125	03	01.		<b>All Concrete Rollup</b>	<b>12.93 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1126	03	01.		<b>Wall Contact Square Footage Rollup</b>	<b>678.00 sf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1127	03	01.		<b>Wall Summary Lineal Footage Rollup</b>	<b>113.00 lf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1128	03	01.		<b>Wall Summary Square Footage Rollup</b>	<b>339.00 sf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1129	03	01.	03.025	<b>Biofilter Pad</b>													
1130	03	01.		<b>Biofilter Slab</b>													
1131	03	01.		Fine Grade - Mat Slab	294.00 sf	404	6	68.67 /mh	404		0			0		0	0
1132	03	01.		Edge Forms for Mat Foundation - forms used 2 times or more	81.90 sf	1,843	20	79.95 /mh	1,637	2.52 /sf	206			0		0	0
1133	03	01.		Screeds SOG	294.00 sf	593	7	79.95 /mh	588	0.02 /sf	6			0		0	0
1134	03	01.		Oil SOG Form	81.90 sf	11	0	79.95 /mh	7	0.04 /sf	3			0		0	0
1135	03	01.		Chamfer - Foundation & Slab Forms	70.00 lf	154	2	79.95 /mh	133	0.30 /lf	21			0		0	0
1136	03	01.		Anchor Bolt Blk Generic	1.00 ea	15			0	15.00 /ea	15			0		0	0
1137	03	01.		Slab Anchors Installed	1.00 ea	31	0	79.95 /mh	31		0			0		0	0
1138	03	01.		4500 psi Concrete - AG Industries	14.01 cy	2,192			0	156.45 /cy	2,192			0		0	0
1139	03	01.		Place Mat Foundation < 20 cyds	14.01 cy	722	11	68.67 /mh	722		0			0		0	0



12/2/2020  
4:01 PM

LIFT STATION A REPLACEMENT  
95% Cost Model

Row	Bid Item	Work Code	Est. Item	Description	Takeoff Quantity	Grand Total Amount	Labor Hours	Labor Price	Labor Amount	Material Cost/Unit	Material Amount	Sub Cost/Unit	Sub Price	Sub Amount	Equip Price	Equip Amount	Other Amount
1140	03	01.		Concrete Vibrator	14.01 cy	35			0		0			0	2.50 /mh	35	0
1141	03	01.		Finish- Hard Trowel - Mat Foundation	294.00 sf	308	4	55.75 /mh	216	0.20 /sf	59			0	39.90 /mh	34	0
1142	03	01.		Cure - Filanc Generic - Mat Foundation	375.90 sf	105	1	55.75 /mh	60	0.12 /sf	45			0		0	0
1143	03	01.		Seal Floors - Mat Foundation	294.00 sf	62	1	55.75 /mh	47	0.05 /sf	15			0		0	0
1144	03	01.		Concrete Pump 52 Meter (170') Boom Straight Time	14.01 cy	512			0		0	34.01 /cy	350.00	477		0	35
1145	03	01.		<b>Slab Concrete Rollup</b>	<b>14.01 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1146	03	01.		<b>All Concrete Rollup</b>	<b>14.01 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1147	03	01.		<b>Slab Horizontal Square Footage Rollup</b>	<b>294.00 sf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1148	03	01.	03.030	<b>Main Distribution Switch Gear Slab</b>													
1149	03	01.		<b>Main Distribution Slab</b>													
1150	03	01.		Fine Grade - Mat Slab	60.00 sf	22	0	68.67 /mh	22		0			0		0	0
1151	03	01.		Edge Forms for Mat Foundation - forms used 2 times or more	39.78 sf	895	10	79.95 /mh	795	2.52 /sf	100			0		0	0
1152	03	01.		Screeds SOG	60.00 sf	61	1	79.95 /mh	60	0.02 /sf	1			0		0	0
1153	03	01.		Oil SOG Form	39.78 sf	5	0	79.95 /mh	4	0.04 /sf	2			0		0	0
1154	03	01.		Chamfer - Foundation & Slab Forms	34.00 lf	75	1	79.95 /mh	64	0.30 /lf	10			0		0	0
1155	03	01.		Anchor Bolt Blk Generic	1.00 ea	15	0	15.00 /ea	0		15			0		0	0
1156	03	01.		Slab Anchors Installed	1.00 ea	31	0	79.95 /mh	31		0			0		0	0
1157	03	01.		4500 psi Concrete - AG Industries	2.86 cy	447			0	156.45 /cy	447			0		0	0
1158	03	01.		Place Matt Foundation < 20 cyds	2.86 cy	94	1	68.67 /mh	94		0			0		0	0
1159	03	01.		Concrete Vibrator	2.86 cy	7			0		0			0	2.50 /mh	7	0
1160	03	01.		Finish- Hard Trowel - Mat Foundation	60.00 sf	63	1	55.75 /mh	44	0.20 /sf	12			0	39.90 /mh	7	0
1161	03	01.		Cure - Filanc Generic - Mat Foundation	99.78 sf	28	0	55.75 /mh	16	0.12 /sf	12			0		0	0
1162	03	01.		Seal Floors - Mat Foundation	60.00 sf	13	0	55.75 /mh	10	0.05 /sf	3			0		0	0
1163	03	01.		<b>Slab Concrete Rollup</b>	<b>2.86 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1164	03	01.		<b>All Concrete Rollup</b>	<b>2.86 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1165	03	01.		<b>Slab Horizontal Square Footage Rollup</b>	<b>60.00 sf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1166	03	01.	03.035	<b>LS Equipment Control Panels Slab</b>													
1167	03	01.		<b>LS Equipment Control Panels Slab</b>													
1168	03	01.		Fine Grade - Mat Slab	60.00 sf	22	0	68.67 /mh	22		0			0		0	0
1169	03	01.		Edge Forms for Mat Foundation - forms used 2 times or more	39.78 sf	895	10	79.95 /mh	795	2.52 /sf	100			0		0	0
1170	03	01.		Screeds SOG	60.00 sf	61	1	79.95 /mh	60	0.02 /sf	1			0		0	0
1171	03	01.		Oil SOG Form	39.78 sf	5	0	79.95 /mh	4	0.04 /sf	2			0		0	0
1172	03	01.		Chamfer - Foundation & Slab Forms	34.00 lf	75	1	79.95 /mh	64	0.30 /lf	10			0		0	0
1173	03	01.		Anchor Bolt Blk Generic	1.00 ea	15	0	15.00 /ea	0		15			0		0	0
1174	03	01.		Slab Anchors Installed	1.00 ea	31	0	79.95 /mh	31		0			0		0	0
1175	03	01.		4500 psi Concrete - AG Industries	2.86 cy	447			0	156.45 /cy	447			0		0	0
1176	03	01.		Place Matt Foundation < 20 cyds	2.86 cy	94	1	68.67 /mh	94		0			0		0	0
1177	03	01.		Concrete Vibrator	2.86 cy	7			0		0			0	2.50 /mh	7	0
1178	03	01.		Finish- Hard Trowel - Mat Foundation	60.00 sf	63	1	55.75 /mh	44	0.20 /sf	12			0	39.90 /mh	7	0
1179	03	01.		Cure - Filanc Generic - Mat Foundation	99.78 sf	28	0	55.75 /mh	16	0.12 /sf	12			0		0	0
1180	03	01.		Seal Floors - Mat Foundation	60.00 sf	13	0	55.75 /mh	10	0.05 /sf	3			0		0	0
1181	03	01.		<b>Slab Concrete Rollup</b>	<b>2.86 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1182	03	01.		<b>All Concrete Rollup</b>	<b>2.86 cy</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1183	03	01.		<b>Slab Horizontal Square Footage Rollup</b>	<b>60.00 sf</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1184	03	01.	03.040	<b>Crane Rental</b>													
1185	03	01.		<b>Crane Rental for Concrete</b>													
1186	03	01.		RMS Crane - Operated & Wet	6.00 Mo	207,600			0		0	34,600.00 /Mo	34,600.00	207,600		0	0
1187	03	13.		<b>Rebar</b>													
1188	03	13.	03.000	<b>Wet Well</b>													
1189	03	13.		<b>Base Slab</b>													
1190	03	13.		Harris Repair	18.15 tn	29,436			0		0	1,622.00 /tn	0.81	29,436		0	0
1191	03	13.		<b>Valve Pit Slab</b>													
1192	03	13.		Harris Repair	1.42 tn	2,306			0		0	1,622.00 /tn	0.81	2,306		0	0
1193	03	13.		<b>Walls - 30" Thick</b>													
1194	03	13.		Rebar Template - Walls	352.00 lf	7,299	88	79.95 /mh	7,035	0.75 /lf	264			0		0	0
1195	03	13.		Harris Repair	77.54 tn	125,767			0		0	1,622.00 /tn	0.81	125,767		0	0
1196	03	13.		<b>Walls - 14" Thick</b>													
1197	03	13.		Rebar Template - Walls	362.00 lf	7,507	91	79.95 /mh	7,235	0.75 /lf	272			0		0	0
1198	03	13.		Harris Repair	11.48 tn	18,625			0		0	1,622.00 /tn	0.81	18,625		0	0
1199	03	13.		<b>Grinder Channels</b>													
1200	03	13.		Rebar Template - Walls	70.00 lf	1,452	18	79.95 /mh	1,399	0.75 /lf	53			0		0	0
1201	03	13.		Harris Repair	12.81 tn	20,778			0		0	1,622.00 /tn	0.81	20,778		0	0
1202	03	13.		<b>Suspended Deck over Valve Pit &amp; Pump Pit</b>													
1203	03	13.		Harris Repair	1.93 tn	3,130			0		0	1,622.00 /tn	0.81	3,130		0	0
1204	03	13.		<b>Suspendend Deck over Wet Well</b>													
1205	03	13.		Harris Repair	2.55 tn	4,136			0		0	1,622.00 /tn	0.81	4,136		0	0
1206	03	13.	03.010	<b>Meter Vault</b>													



Row	Bid Item	Work Code	Est. Item	Description	Takeoff Quantity	Grand Total Amount	Labor Hours	Labor Price	Labor Amount	Material Cost/Unit	Material Amount	Sub Cost/Unit	Sub Price	Sub Amount	Equip Price	Equip Amount	Other Amount
1207	03	13.		<b>Base Slab</b>													
1208	03	13.		Harris Repair	1.25 tn	2,031			0		0	1,622.00 /tn	0.81	2,031		0	0
1209	03	13.		<b>Walls - 1' Thick</b>													
1210	03	13.		Rebar Template - Walls	120.00 lf	2,488	30	79.95 /mh	2,398	0.75 /lf	90			0		0	0
1211	03	13.		Harris Repair	5.29 tn	8,576			0		0	1,622.00 /tn	0.81	8,576		0	0
1212	03	13.		<b>Suspended Slab</b>													
1213	03	13.		Harris Repair	0.95 tn	1,544			0		0	1,622.00 /tn	0.81	1,544		0	0
1214	03	13.	03.020	<b>Elect. Enclosure Foundation</b>													
1215	03	13.		<b>Footing</b>													
1216	03	13.		Harris Repair	0.95 tn	1,538			0		0	1,622.00 /tn	0.81	1,538		0	0
1217	03	13.		<b>Stem Walls</b>													
1218	03	13.		Rebar Template - Walls	226.00 lf	4,686	57	79.95 /mh	4,517	0.75 /lf	170			0		0	0
1219	03	13.		Harris Repair	2.30 tn	3,727			0		0	1,622.00 /tn	0.81	3,727		0	0
1220	03	13.	03.025	<b>Biofilter Pad</b>													
1221	03	13.		<b>Biofilter Slab</b>													
1222	03	13.		Harris Repair	1.63 tn	2,645			0		0	1,622.00 /tn	0.81	2,645		0	0
1223	03	13.	03.030	<b>Main Distribution Switch Gear Slab</b>													
1224	03	13.		<b>Main Distribution Slab</b>													
1225	03	13.		Harris Repair	0.33 tn	540			0		0	1,622.01 /tn	0.81	540		0	0
1226	03	13.	03.035	<b>LS Equipment Control Panels Slab</b>													
1227	03	13.		<b>LS Equipment Control Panels Slab</b>													
1228	03	13.		Harris Repair	0.33 tn	540			0		0	1,622.01 /tn	0.81	540		0	0
1229	05	09.		<b>Division 5</b>													
1230	05	09.		<b>Mechanical</b>													
1231	05	09.	05.000	<b>Slide Gate Pricing</b>													
1232	05	09.		<b>Stainless Steel Slide Gates</b>													
1233	05	09.		MISCO - Fontaine	1.00 ls	31,658			0	31,658.00 /ls	31,658			0		0	0
1234	05	09.	05.001	<b>Pump Station Misc. Metals</b>													
1235	05	09.		<b>FRP Ladders with Handrail</b>													
1236	05	09.		Hydraulic Crane 30 ton Metal Divison	2.00 hr	184	2	737.76 /cd	184		0			0	/cd	0	0
1237	05	09.		<b>with Fibergrate Composite Structures</b>	<b>1.00 ea</b>	<b>0</b>			<b>0</b>	<b>/ea</b>	<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1238	05	09.		Fibergrate Composite Structures (PEC)	1.00 ea	20,054	10	79.95 /mh	799	19,255.00 /ea	19,255			0		0	0
1239	05	09.		Ladder Anchors Installed	8.00 ea	375	3	79.95 /mh	215	20.00 /ea	160			0		0	0
1240	05	09.		Ladder Dry Pack	12.00 ea	233	4	47.23 /mh	170	5.25 /ea	63			0		0	0
1241	05	09.		Ladder Equipment Adjustment	2.00 hr	148			0		0			0	74.10 /hr	148	0
1242	05	09.		Ladder Labor Hour Adjustment	8.00 mh	640	8	79.95 /mh	640		0			0		0	0
1243	05	09.		<b>FRP Grating</b>													
1244	05	09.		Hydraulic Crane 30 ton Metal Divison	2.00 hr	184	2	737.76 /cd	184		0			0	/cd	0	0
1245	05	09.		<b>with Fibergrate Composite Structures</b>	<b>160.00 sf</b>	<b>0</b>			<b>0</b>	<b>/sf</b>	<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1246	05	09.		Grating Install	160.00 sf	1,279	16	79.95 /mh	1,279		0			0		0	0
1247	05	09.		Grating Equipment Adjustment	2.00 hr	148			0		0			0	74.10 /hr	148	0
1248	05	09.		Grating Labor Hour Adjustment	8.00 mh	640	8	79.95 /mh	640		0			0		0	0
1249	05	09.		I-Beams	4.00 ea	1,000			0	250.00 /ea	1,000			0		0	0
1250	05	09.		<b>Slide Gates</b>													
1251	05	09.		<b>30 Ton Hydraulic Crane</b>	<b>40.00 hr</b>	<b>0</b>			<b>0</b>		<b>0</b>			<b>0</b>	<b>/hr</b>	<b>0</b>	<b>0</b>
1252	05	09.		<b>Crane Operator</b>	<b>mh</b>	<b>0</b>		<b>92.22 /mh</b>	<b>0</b>		<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1253	05	09.		Unload / Stage - Medium Slide Gate	5.00 ea	1,589	15	81.91 /hr	819		0			0	153.90 /hr	770	0
1254	05	09.		Blockout & Embeds - Medium Slide Gate	5.00 ea	6,282	100	150.80 /hr	6,032		0			0	/ea	0	250
1255	05	09.		Install Medium Slide Gate	5.00 ea	6,375	70	241.80 /hr	4,836		0			0	153.90 /hr	1,539	0
1256	05	09.		Grout - Medium Slide Gate	5.00 ea	2,532	50	126.60 /hr	2,532		0			0	/ea	0	0
1257	05	09.		Startup/Testing - Medium Slide Gate	5.00 ea	2,849	20	79.95 /hr	1,599		0			0	/ea	0	1,250
1258	05	09.		Grout @ 75\$ per Bag	15.00 ea	1,125			0		0			0		0	1,125
1259	05	09.		Buy Anchor Bolts - Medium	100.00 ea	5,000			0		0			0		0	5,000
1260	05	09.		<b>Lift Pedestal for Slide Gates</b>													
1261	05	09.		Unload / Stage -	5.00 ea	1,589	15	81.91 /hr	819		0			0	153.90 /hr	770	0
1262	05	09.		Install	5.00 ea	3,187	35	241.80 /hr	2,418		0			0	153.90 /hr	770	0
1263	05	09.		Grout -	5.00 ea	2,532	50	126.60 /hr	2,532		0			0	/ea	0	0
1264	05	09.		Grout @ 75\$ per Bag	5.00 ea	375			0		0			0		0	375
1265	05	09.		Buy Anchor Bolts - Medium	20.00 ea	1,000			0		0			0		0	1,000
1266	05	09.		<b>12" Vent Piping</b>													
1267	05	09.		12" SS Vent Pipe w/ Goose Neck and Vent Screen (One complete piece)	7.00 EA	6		/EA	0	/EA	0			0	14.82 /mh	3	4
1268	05	09.		Exhaust Van	2.00 ea	189	4	94.47 /hr	189		0			0	14.82 /mh	0	0
1269	05	09.		12" Steel to PVC Transtion	2.00 ea	1,784	19	81.43 /hr	1,563	100.00 /ea	200			0	153.90 /mh	18	2
1270	05	09.		12" Manual Balancing Damper	2.00 ea	590	6	81.43 /hr	489	/ea	0			0	153.90 /mh	90	12
1271	05	09.		12" PVC x 6"	2.00 ea	2,235	24	81.43 /hr	1,954	/ea	0			0	153.90 /mh	249	32
1272	05	09.	05.005	<b>Meter Vault Misc. Metals</b>													
1273	05	09.		<b>Alum. Ships Ladder</b>													



12/2/2020  
4:01 PM

LIFT STATION A REPLACEMENT  
95% Cost Model

Row	Bid Item	Work Code	Est. Item	Description	Takeoff Quantity	Grand Total Amount	Labor Hours	Labor Price	Labor Amount	Material Cost/Unit	Material Amount	Sub Cost/Unit	Sub Price	Sub Amount	Equip Price	Equip Amount	Other Amount
1274	05	09.		Hydraulic Crane 30 ton Metal Divison	1.00 hr	92	1	737.76 /cd	92		0			0	/cd	0	0
1275	05	09.		<b>with Fiberglass Composite Structures</b>	<b>1.00 ea</b>	<b>0</b>			<b>0</b>	<b>/ea</b>	<b>0</b>			<b>0</b>		<b>0</b>	<b>0</b>
1276	05	09.		Ladder w/o Cage Install 4 to 15ft	1.00 ea	799	10	79.95 /mh	799		0			0		0	0
1277	05	09.		Ladder Anchors Installed	16.00 ea	430	5	79.95 /mh	430		0			0		0	0
1278	05	09.		Ladder Dry Pack	4.00 ea	78	1	47.23 /mh	57	5.25 /ea	21			0		0	0
1279	05	09.		Ladder Equipment Adjustment	1.00 hr	74			0		0			0	74.10 /hr	74	0
1280	05	09.		Ladder Labor Hour Adjustment	4.00 mh	320	4	79.95 /mh	320		0			0		0	0
1281	05	09.		<b>12" Vent Piping</b>													
1282	05	09.		12" SS Vent Pipe w/ Goose Neck and Vent Screen (One complete piece)	2.00 EA	2		/EA	0	/EA	0			0	14.82 /mh	1	1
1283	05	09.		Exhaust Van	1.00 ea	95	2	94.47 /hr	94	/ea	0			0	14.82 /mh	0	0
1284	05	09.		12" Steel to PVC Transition	1.00 ea	892	10	81.43 /hr	782	100.00 /ea	100			0	153.90 /mh	9	1
1285	05	09.		12" Manual Balancing Damper	1.00 ea	295	3	81.43 /hr	244	/ea	0			0	153.90 /mh	45	6
1286	05	09.		12" PVC x 6"	1.00 ea	1,118	12	81.43 /hr	977	/ea	0			0	153.90 /mh	124	16
1287	05	09.	05.015	<b>Pipe Supports</b>													
1288	05	09.		<b>Pipe Supports</b>													
1289	05	09.		Tri Star Industrial	21.00 ea	16,166	28	105.05 /hr	1,935	669.00 /ea	14,049			0	14.82 /mh	136	46
1290	05	09.		Anchor Bolts - Small	84.00 ea	2,049	15	79.95 /hr	1,209	10.00 /ea	840			0	/ea	0	0
1291	05	09.		Grout / DryPack	21.00 ea	2,866	42	55.75 /hr	2,341	25.00 /ea	525			0	/ea	0	0
1292	05	09.	05.020	<b>Bollards</b>													
1293	05	09.		<b>Guard Post (Bollards) *</b>													
1294	05	09.		Material - Guard Post 6in Diameter Steel @ 18.97 lbs. per foot	7.00 ea	5,250			0	750.00 /ea	5,250			0		0	0
1295	05	09.		ADD: Guard Post Excavate for Install	7.00 ea	2,191	28	116.58 /hr	1,632		0			0	39.90 /hr	559	0
1296	05	09.		Guard Post Install	7.00 ea	1,954	31	63.59 /mh	1,954		0			0		0	0
1297	05	09.		ADD: Guard Post Concrete Filled	7.00 ea	734	8	47.23 /mh	384	50.00 /ea	350			0		0	0
1298	05	09.		Paint Guard Rails (Bollards) - Standard Paint (Self Perform)	7.00 ea	401	7	47.23 /mh	331	10.00 /ea	70			0		0	0
1299	08			<b>Division 8</b>													
1300	08	08.		<b>Misc. Steel</b>													
1301	08	08.	08.001	<b>Pump Station Hatches</b>													
1302	08	08.		<b>Access Hatch 4 x 4</b>													
1303	08	08.		Hydraulic Crane 30 ton Metal Divison	4.00 hr	369	4	737.76 /cd	369		0			0	/cd	0	0
1304	08	08.		BILCO	4.00 ea	21,044			0	5,260.95 /ea	21,044			0		0	0
1305	08	08.		Hatch Cast In Install	64.00 sf	1,381	17	79.95 /mh	1,381		0			0		0	0
1306	08	08.		Hatch Blockout	64.00 sf	1,343	16	79.95 /mh	1,279	1.00 /sf	64			0		0	0
1307	08	08.		Hatch Blockout Strip & Patch	64.00 sf	772	16	47.23 /mh	756	0.25 /sf	16			0		0	0
1308	08	08.		<b>Access Hatch 4 x 6</b>													
1309	08	08.		Hydraulic Crane 30 ton Metal Divison	2.00 hr	184	2	737.76 /cd	184		0			0	/cd	0	0
1310	08	08.		BILCo	2.00 ea	13,487			0	6,743.25 /ea	13,487			0		0	0
1311	08	08.		Hatch Cast In Install	48.00 sf	1,036	13	79.95 /mh	1,036		0			0		0	0
1312	08	08.		Hatch Blockout	48.00 sf	1,007	12	79.95 /mh	959	1.00 /sf	48			0		0	0
1313	08	08.		Hatch Blockout Strip & Patch	48.00 sf	579	12	47.23 /mh	567	0.25 /sf	12			0		0	0
1314	08	08.		<b>Access Hatch 4 x 12'-6"</b>													
1315	08	08.		Hydraulic Crane 30 ton Metal Divison	1.00 hr	92	1	737.76 /cd	92		0			0	/cd	0	0
1316	08	08.		BILCO w/Bilco Ladderup Safety Post	1.00 ea	11,762			0	11,762.00 /ea	11,762			0		0	0
1317	08	08.		Hatch Cast In Install	50.00 sf	1,079	14	79.95 /mh	1,079		0			0		0	0
1318	08	08.		Hatch Blockout	50.00 sf	1,049	13	79.95 /mh	999	1.00 /sf	50			0		0	0
1319	08	08.		Hatch Blockout Strip & Patch	50.00 sf	603	13	47.23 /mh	590	0.25 /sf	13			0		0	0
1320	08	08.		Hatch Equipment Adjustment	1.00 hr	74			0		0			0	74.10 /hr	74	0
1321	08	08.		Hatch Labor Hour Adjustment	4.00 mh	320	4	79.95 /mh	320		0			0		0	0
1322	08	08.		Hatch Material Adjustment	1.00 ls	500			0	500.00 /ls	500			0		0	0
1323	08	08.		<b>Access Hatch 5 x 4</b>													
1324	08	08.		Hydraulic Crane 30 ton Metal Divison	8.00 hr	738	8	737.76 /cd	738		0			0	/cd	0	0
1325	08	08.		BILCO	4.00 ea	23,636			0	5,908.95 /ea	23,636			0		0	0
1326	08	08.		Hatch Cast In Install	80.00 sf	1,727	22	79.95 /mh	1,727		0			0		0	0
1327	08	08.		Hatch Blockout	80.00 sf	1,679	20	79.95 /mh	1,599	1.00 /sf	80			0		0	0
1328	08	08.		Hatch Blockout Strip & Patch	80.00 sf	965	20	47.23 /mh	945	0.25 /sf	20			0		0	0
1329	08	08.		<b>Access Hatch 2-6 x 4</b>													
1330	08	08.		Hydraulic Crane 30 ton Metal Divison	2.00 hr	184	2	737.76 /cd	184		0			0	/cd	0	0
1331	08	08.		BILCO	2.00 ea	13,487			0	6,743.25 /ea	13,487			0		0	0
1332	08	08.		Hatch Cast In Install	20.00 sf	432	5	79.95 /mh	432		0			0		0	0
1333	08	08.		Hatch Blockout	20.00 sf	420	5	79.95 /mh	400	1.00 /sf	20			0		0	0
1334	08	08.		Hatch Blockout Strip & Patch	20.00 sf	241	5	47.23 /mh	236	0.25 /sf	5			0		0	0
1335	08	08.	08.005	<b>Meter Vault Hatches</b>													
1336	08	08.		<b>Access Hatch 4 x 4</b>													
1337	08	08.		Hydraulic Crane 30 ton Metal Divison	1.00 hr	92	1	737.76 /cd	92		0			0	/cd	0	0
1338	08	08.		BILCO	1.00 ea	5,261			0	5,260.95 /ea	5,261			0		0	0
1339	08	08.		Hatch Cast In Install	16.00 sf	345	4	79.95 /mh	345		0			0		0	0
1340	08	08.		Hatch Blockout	16.00 sf	336	4	79.95 /mh	320	1.00 /sf	16			0		0	0



12/2/2020  
4:01 PM

LIFT STATION A REPLACEMENT  
95% Cost Model

Row	Bid Item	Work Code	Est. Item	Description	Takeoff Quantity	Grand Total Amount	Labor Hours	Labor Price	Labor Amount	Material Cost/Unit	Material Amount	Sub Cost/Unit	Sub Price	Sub Amount	Equip Price	Equip Amount	Other Amount
1341	08	08.		Hatch Blockout Strip & Patch	16.00 sf	193	4	47.23 /mh	189	0.25 /sf	4			0		0	0
1342	08	08.		Access Hatch 2'-4" x 8'													
1343	08	08.		Hydraulic Crane 30 ton Metal Divison	1.00 hr	92	1	737.76 /cd	92					0	/cd	0	0
1344	08	08.		BILCO	1.00 ea	6,593			0	6,593.40 /ea	6,593			0		0	0
1345	08	08.		Hatch Cast In Install	19.00 sf	410	5	79.95 /mh	410					0		0	0
1346	08	08.		Hatch Blockout	19.00 sf	399	5	79.95 /mh	380	1.00 /sf	19			0		0	0
1347	08	08.		Hatch Blockout Strip & Patch	19.00 sf	229	5	47.23 /mh	224	0.25 /sf	5			0		0	0
1348	09			Division 9													
1349	09	12.		Painting													
1350	09	12.	09.000	Site Painting Complete													
1351	09	12.		Painting - Sub - General													
1352	09	12.		Applewood Painting	1.00 LS	321,473			0		0	321,473.00 /LS	321,473.00	321,473		0	0
1353	11			Division 11													
1354	11	09.		Mechanical													
1355	11	09.	11.000	Materials Pricing													
1356	11	09.		Submersible Pumps													
1357	11	09.		Water Technology Group - Flygt	1.00 ls	585,177			0	585,177.15 /ls	585,177			0		0	0
1358	11	09.		Sewage Grinders													
1359	11	09.		MISCO - JWC	1.00 ls	198,935			0	198,935.00 /ls	198,935			0		0	0
1360	11	09.		Biofilter System Complete													
1361	11	09.		MISCO - Evoqua	1.00 ls	119,255			0	119,255.00 /ls	119,255			0		0	0
1362	11	09.	11.005	Install Pumps													
1363	11	09.		Install Pumps													
1364	11	09.		Fork Lift	16.00 hr	2,400			0		0	150.00 /hr	150.00	2,400	/hr	0	0
1365	11	09.		Fork Lift Operator	32.00 mh	2,951	32	92.22 /mh	2,951		0			0		0	0
1366	11	09.		Unload / Stage - Medium Pump	4.00 ea	1,271	12	81.91 /hr	655		0		153.90 /hr	0	153.90	616	0
1367	11	09.		Concrete Base - Medium Pump	4.00 ea	4,875	64	161.47 /hr	3,875		0		/ea	0		0	1,000
1368	11	09.		Install - Medium Pump	4.00 ea	7,491	76	183.13 /hr	5,860		0		153.90 /hr	0	153.90	1,231	400
1369	11	09.		Grout Base - Medium Pump	4.00 ea	892	16	55.75 /hr	892		0		/ea	0		0	0
1370	11	09.		Startup/Testing - Medium Pump	4.00 ea	1,279	16	79.95 /hr	1,279		0		/ea	0		0	0
1371	11	09.		Buy Anchor Bolts - Medium	16.00 ea	800			0		0			0		0	800
1372	11	09.	11.110	Install Grinder													
1373	11	09.		Install Grinders													
1374	11	09.		Fork Lift	16.00 hr	2,400			0		0	150.00 /hr	150.00	2,400	/hr	0	0
1375	11	09.		Fork Lift Operator	16.00 mh	1,476	16	92.22 /mh	1,476		0			0		0	0
1376	11	09.		Unload / Stage - Mixer	2.00 ea	635	6	81.91 /hr	328		0		153.90 /hr	0	153.90	308	0
1377	11	09.		Install Brackets & Rails - Mixer	2.00 ea	8,018	90	203.21 /hr	6,503		0		153.90 /hr	0	153.90	616	900
1378	11	09.		Install - Mixers	2.00 ea	2,153	24	109.09 /hr	1,745		0		153.90 /hr	0	153.90	308	100
1379	11	09.		Startup/Testing - Mixers	2.00 ea	420	4	79.95 /hr	320		0		/ea	0		0	100
1380	11	09.		Buy Anchor Bolts - Medium	32.00 ea	1,600			0		0			0		0	1,600
1381	11	09.	11.115	Install Biofilter System													
1382	11	09.		Install Media Support Grating													
1383	11	09.		General Foreman	1.00 day	721	8	90.10 /mh	721		0			0		0	0
1384	11	09.		Pipe Fitter #1	2.00 day	1,303	16	81.43 /mh	1,303		0			0		0	0
1385	11	09.		Carpenter #1	2.00 day	1,279	16	79.95 /mh	1,279		0			0		0	0
1386	11	09.		Laborer Foreman	2.00 day	1,442	16	90.10 /mh	1,442		0			0		0	0
1387	11	09.		Confined Space Equipment #1 Day	2.00 day	200			0		0	100.00 /day		0	100.00	200	0
1388	11	09.		Service Truck #1 Day	2.00 day	456			0		0	228.00 /day		0	228.00	456	0
1389	11	09.		Tools #1 Day	2.00 day	55			0		0	27.36 /day		0	27.36	55	0
1390	11	09.		Gen Set	2.00 day	237			0		0	118.56 /day		0	118.56	237	0
1391	11	09.		MSC. Material #1	1.00 ls	500			0	500.00 /ls	500			0		0	0
1392	11	09.		Install Media													
1393	11	09.		General Foreman	1.00 day	721	8	90.10 /mh	721		0			0		0	0
1394	11	09.		Pipe Fitter #1	2.00 day	1,303	16	81.43 /mh	1,303		0			0		0	0
1395	11	09.		Laborer #1	2.00 day	756	16	47.23 /mh	756		0			0		0	0
1396	11	09.		Laborer #2	2.00 day	756	16	47.23 /mh	756		0			0		0	0
1397	11	09.		Laborer #3	2.00 day	756	16	47.23 /mh	756		0			0		0	0
1398	11	09.		Operating Engineer (backhoe) #1	2.00 day	1,110	16	69.35 /mh	1,110		0			0		0	0
1399	11	09.		Confined Space Equipment #1 Day	2.00 day	200			0		0	100.00 /day		0	100.00	200	0
1400	11	09.		Forklift Rental #1 Day	2.00 day	376			0		0	188.10 /day		0	188.10	376	0
1401	11	09.		Service Truck #1 Day	2.00 day	456			0		0	228.00 /day		0	228.00	456	0
1402	11	09.		Tools #1 Day	2.00 day	55			0		0	27.36 /day		0	27.36	55	0
1403	11	09.		MSC. Material #1	1.00 ls	500			0	500.00 /ls	500			0		0	0
1404	11	09.		Install Sprinkler System from Water Box													
1405	11	09.		General Foreman	1.00 day	721	8	90.10 /mh	721		0			0		0	0
1406	11	09.		Pipe Fitter #1	1.00 day	651	8	81.43 /mh	651		0			0		0	0
1407	11	09.		Laborer #1	1.00 day	378	8	47.23 /mh	378		0			0		0	0



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LIFT STATION A REPLACEMENT  
95% Cost Model

Row	Bid Item	Work Code	Est. Item	Description	Takeoff Quantity	Grand Total Amount	Labor Hours	Labor Price	Labor Amount	Material Cost/Unit	Material Amount	Sub Cost/Unit	Sub Price	Sub Amount	Equip Price	Equip Amount	Other Amount
1408	11	09.		Laborer #2	1.00 day	378	8	47.23 /mh	378		0			0		0	0
1409	11	09.		Laborer #3	1.00 day	378	8	47.23 /mh	378		0			0		0	0
1410	11	09.		Confined Space Equipment #1 Day	1.00 day	100			0		0			0	100.00 /day	100	0
1411	11	09.		Service Truck #1 Day	1.00 day	228			0		0			0	228.00 /day	228	0
1412	11	09.		Tools #1 Day	1.00 day	27			0		0			0	27.36 /day	27	0
1413	11	09.		<b>Test and Confirm Operation</b>													
1414	11	09.		General Foreman	1.00 day	721	8	90.10 /mh	721		0			0		0	0
1415	11	09.		Laborer #1	5.00 day	1,889	40	47.23 /mh	1,889		0			0		0	0
1416	11	09.		Service Truck #1 Day	5.00 day	1,140			0		0			0	228.00 /day	1,140	0
1417	11	09.		Tools #1 Day	5.00 day	137			0		0			0	27.36 /day	137	0
1418	11	09.		<b>Install Insulation Jacket</b>													
1419	11	09.		General Foreman	1.00 day	721	8	90.10 /mh	721		0			0		0	0
1420	11	09.		Pipe Fitter #1	1.00 day	651	8	81.43 /mh	651		0			0		0	0
1421	11	09.		Laborer #1	1.00 day	378	8	47.23 /mh	378		0			0		0	0
1422	11	09.		Laborer #2	1.00 day	378	8	47.23 /mh	378		0			0		0	0
1423	11	09.		Service Truck #1 Day	1.00 day	228			0		0			0	228.00 /day	228	0
1424	11	09.		Tools #1 Day	1.00 day	27			0		0			0	27.36 /day	27	0
1425	11	09.		Pipe Insulation	1.00 ls	1,000			0	1,000.00 /fs	1,000			0		0	0
1426	11	09.		<b>Install Air Blower and Piping</b>													
1427	11	09.		Unload / Stage - Small Pump	1.00 ea	318	3	81.91 /hr	164		0			0	153.90 /hr	154	0
1428	11	09.		Intake Flex Cplg and 12" Flex Cplg	2.00 ea	2,000			0	1,000.00 /ea	2,000			0		0	0
1429	11	09.		Install - Small Pump	1.00 ea	1,514	18	144.52 /hr	1,156		0			0	153.90 /hr	308	50
1430	11	09.		Grout Base - Small Pump	1.00 ea	223	4	55.75 /hr	223		0			0	/ea	0	0
1431	11	09.		Buy Anchor Bolts - Medium	4.00 ea	200			0		0			0		0	200
1432	11	09.		<b>Set Tank</b>													
1433	11	09.		Unload / Stage - FRP Tank	1.00 ea	635	6	81.91 /hr	328		0			0	153.90 /hr	308	0
1434	11	09.		Crane Rental	1.00 Dy	1,500			0	/Dy	0	1,500.00 /Dy	1,500.00	1,500		0	0
1435	11	09.		Install - FRP Tank	1.00 ea	2,625	25	226.21 /hr	1,810		0			0	153.90 /hr	616	200
1436	11	09.		Buy Anchor Bolts - Medium	8.00 ea	400			0		0			0		0	400
1437	11	09.		<b>Install Heat Trace</b>													
1438	11	09.		Electrical Sub	1.00 ls	5,000			0		0	5,000.00 /fs	5,000.00	5,000		0	0
1439	15			<b>Division 15</b>													
1440	15	03.		<b>Above Ground Pipe</b>													
1441	15	03.	02.060	Excavate for Main Dist. Swithcgear													
1442	15	03.		<b>Pothole</b>													
1443	15	03.		Excavation Rollup	2.37 cy	0			0		0			0		0	0
1444	15	03.		Backfill Rollup	1.78 cy	0			0		0			0		0	0
1445	15	03.		Pot Hole - Hard	25.00 ea	14,074	100	116.58 /hr	5,829		0	250.00 /ea	250.00	6,250	39.90 /hr	1,995	0
1446	15	03.	15.000	<b>Pipe Pricing</b>													
1447	15	03.		<b>Mechanical Pipe</b>													
1448	15	03.		Ferguson	1.00 ls	162,599			0	162,599.00 /fs	162,599			0		0	0
1449	15	03.		<b>Magnetic Flow Meter</b>													
1450	15	03.		Magnetic Flow Meter (By Electrical)	1.00 ls	0			0	/ls	0			0		0	0
1451	15	03.	15.005	<b>Wet Well Piping</b>													
1452	15	03.		<b>Wetwell Piping</b>													
1453	15	03.		Boom Truck	24.00 hr	3,600			0		0	150.00 /hr	150.00	3,600	/hr	0	0
1454	15	03.		Crane Operator	24.00 mh	2,213	24	92.22 /mh	2,213		0			0		0	0
1455	15	03.		DI Spool 12in x 2ft, Standard	4.00 ea	2,059	32	128.66 /hr	2,059		0			0	/mh	0	0
1456	15	03.		DI Spool 12in x 10ft, Standard	4.00 ea	2,059	32	128.66 /hr	2,059		0			0	/mh	0	0
1457	15	03.		Ductile Iron Pipe Unload Extra Hours Crew #2	8.00 hr	2,120	24	175.90 /hr	1,407		0			0	14.82 /mh	711	1
1458	15	03.		Ductile Iron Pipe Testing Extra Hours Crew #2	8.00 hr	1,303	16	162.86 /hr	1,303		0			0	/hr	0	0
1459	15	03.		DI Fitting 12" Bend 90, Flanged	4.00 ea	1,343	16	81.43 /hr	1,303		0			0	153.90 /mh	36	5
1460	15	03.		DI Fitting 12x08" CON Rdc, Flanged	4.00 ea	1,343	16	81.43 /hr	1,303		0			0	153.90 /mh	36	5
1461	15	03.		DI Pipe Cut 12"	4.00 ea	1,122	12	81.43 /hr	977		0			0	153.90 /mh	128	17
1462	15	03.		Plug Valve, Manual IB 12"	4.00 ea	1,343	16	81.43 /hr	1,303	/ea	0			0	153.90 /mh	36	5
1463	15	03.		Check Valve, Flg IB 12"	4.00 ea	1,282	15	81.43 /hr	1,241		0			0	153.90 /mh	36	5
1464	15	03.		SS BNG Kit 12"	40.00 ea	8,253	80	81.43 /hr	6,514	/ea	0			0	153.90 /mh	1,539	200
1465	15	03.		Sleeve / Cast In 12"	8.00 ea	733	8	81.43 /hr	651		0			0	153.90 /mh	72	9
1466	15	03.		Flex Sleeve Coupling 12"	4.00 ea	1,396	16	81.43 /hr	1,303		0			0	153.90 /mh	82	11
1467	15	03.		Flex Sleeve Coupling Harness 12"	4.00 ea	1,442	16	81.43 /hr	1,303		0			0	153.90 /mh	123	16
1468	15	03.		<b>FRP Pipe</b>													
1469	15	03.		FRP Pipe 16" (Materials in Div 2)	20.00 lf	3,148	31	101.79 /hr	2,545		0			0	64.13 /hr	514	89
1470	15	03.		Plastic Pipe Unload 16"	20.00 lf	6	0	94.47 /hr	6		0			0	14.82 /ch	0	0
1471	15	03.		Plastic Pipe String 16"	20.00 lf	81	1	175.90 /hr	78		0			0	14.82 /ch	2	1
1472	15	03.		Plastic Pipe Testing 16"	20.00 lf	62	1	162.86 /hr	61		0			0	/ff	0	1
1473	15	03.		FRP Tee 16"	2.00 ea	107	1	141.70 /hr	28		0			0	171.00 /ch	79	0
1474	15	03.		FRP Reducer 16x14"	1.00 ea	54	0	141.70 /hr	14		0			0	171.00 /ch	39	0



Row	Bid Item	Work Code	Est. Item	Description	Takeoff Quantity	Grand Total Amount	Labor Hours	Labor Price	Labor Amount	Material Cost/Unit	Material Amount	Sub Cost/Unit	Sub Price	Sub Amount	Equip Price	Equip Amount	Other Amount
1475	15	03.		FRP Pipe Cut 16"	5.00 ea	1,572	19	101.79 /hr	1,529		0			0	64.13 /ch	29	13
1476	15	03.		FRP Pipe Wrap 16"	6.00 ea	1,886	23	101.79 /hr	1,835		0			0	64.13 /ch	35	16
1477	15	03.		Sleeve / Cast In 16"	2.00 ea	109	1	81.43 /hr	89		0			0	153.90 /mh	18	2
1478	15	03.		Pipe Saddle 16"	1.00 ea	32	0	81.43 /hr	22		0			0	153.90 /mh	9	1
1479	15	03.	15.010	<b>Meter Vault Piping</b>													
1480	15	03.		<b>Meter Vault Piping</b>													
1481	15	03.		DI Spool 12in x 1ft, Easy	2.00 ea	664	10	128.66 /hr	664		0			0	/mh	0	0
1482	15	03.		DI Spool 18in x 1ft, Easy	5.00 ea	2,464	38	128.66 /hr	2,464		0			0	/mh	0	0
1483	15	03.		DI Spool 18in x 3ft, Easy	2.00 ea	986	15	128.66 /hr	986		0			0	/mh	0	0
1484	15	03.		DI Fitting 12" Bend 90, Flanged	1.00 ea	244	3	81.43 /hr	234		0			0	153.90 /mh	9	1
1485	15	03.		DI Fitting 18x16" Reducing Tee, Flanged	1.00 ea	1,046	18	175.90 /hr	1,041		0			0	14.82 /mh	2	3
1486	15	03.		DI Pipe Cut 12"	4.00 ea	1,122	12	81.43 /hr	977		0			0	153.90 /mh	128	17
1487	15	03.		DI Pipe Cut 18"	4.00 ea	1,669	18	81.43 /hr	1,466		0			0	153.90 /mh	180	23
1488	15	03.		Plug Valve, Manual IB 12"	1.00 ea	284	3	81.43 /hr	274	/ea	0			0	153.90 /mh	9	1
1489	15	03.		Plug Valve, Manual IB 18"	2.00 ea	1,695	29	175.90 /hr	1,682	/ea	0			0	14.82 /mh	6	8
1490	15	03.		SS BNG Kit 12"	4.00 ea	630	6	81.43 /hr	456	/ea	0			0	153.90 /mh	154	20
1491	15	03.		SS BNG Kit 18"	8.00 ea	1,883	16	81.43 /hr	1,303	/ea	0			0	153.90 /mh	513	67
1492	15	03.		Sleeve / Cast In 18"	2.00 ea	418	7	175.90 /hr	409		0			0	14.82 /mh	4	5
1493	15	03.		Flex Sleeve Coupling 18"	2.00 ea	203	2	81.43 /hr	139	/ea	0			0	153.90 /mh	56	7
1494	15	03.		Flex Sleeve Coupling Harness 18"	2.00 ea	296	3	81.43 /hr	204	/ea	0			0	153.90 /mh	82	11
1495	15	03.		Flow Meter 18"	1.00 ea	107	2	175.90 /hr	103		0			0	14.82 /mh	2	3
1496	15	03.		Iso Flanges 18"	2.00 ea	214	4	175.90 /hr	206		0			0	14.82 /mh	4	5
1497	15	03.		Pressure Switch	1.00 ea	60	1	81.43 /hr	54	/ea	0			0	14.82 /mh	2	3
1498	15	09.		<b>Mechanical</b>													
1499	15	09.	15.100	<b>Vault HVAC</b>													
1500	15	09.		<b>Vault HVAC</b>													
1501	15	09.		General Foreman	3.00 day	2,162	24	90.10 /mh	2,162		0			0		0	0
1502	15	09.		Horizon Mechanical	1.00 ls	59,199			0		0	59,199.00 /ls	59,199.00	59,199		0	0
1503	15	09.		<b>Subcontractor #2</b>	1.00 ls	0			0		0			0		0	0
1504	16			<b>Division 16</b>													
1505	16	11.		<b>Elec. / Inst.</b>													
1506	16	11.	16.000	<b>RFP Pricing</b>													
1507	16	11.		<b>Pre-Fabricated Electrical Enclosure</b>													
1508	16	11.		<b>Pre-Fabricated Electrical Enclosure (INCLUDED WITH WEIFIELD GROUP)</b>	1.00 LS	0			0	/LS	0			0		0	0
1509	16	11.	16.005	<b>Electrical &amp; Instrumentation</b>													
1510	16	11.		<b>Electrical Sub LS</b>													
1511	16	11.		Weifield Group and Browns Hill	1.00 ls	2,231,085			0		0	2,231,085.00 /ls	2,231,085.00	2,231,085		0	0
1512	16	11.	16.010	<b>Electrical Trench &amp; Backfill</b>													
1513	16	11.		<b>Ductbank Concrete Encasement</b>													
1514	16	11.		<b>All Concrete Rollup</b>	145.32 cy	0			0		0			0		0	0
1515	16	11.		Truck Place Encasement LP	145.32 cy	3,617	62	55.75 /mh	3,472		0			0		0	145
1516	16	11.		4000 psi Concrete Encasement LP	145.32 cy	22,735			0	156.45 /cy	22,735			0		0	0
1517	16	11.		Rebar Template Encasement LP	500.00 lf	4,122	50	79.95 /mh	3,997		0			0		0	125
1518	16	11.		Encasement LP Rebar	11.11 tn	15,105	111	79.95 /mh	8,883	560.00 /tn	6,222			0		0	0
1519	16	11.		Encasement LP Concrete	145.32 cy	10,413			0		0			0	125.40 /mh	10,413	0
1520	16	11.		<b>Encasement LP Concrete Rollup</b>	145.32 cy	0			0		0			0		0	0
1521	16	11.		<b>Special Material</b>	1.00 ls	0		175.90 /ch	0		0			0		0	0
1522	16	11.		<b>Trenching D/L/B Ductbank</b>													
1523	16	11.		Sub Haul & Dump Fee's (SEO)	5.00 ld	1,500			0		0	150.00 /ld	150.00	750	/ld	0	750
1524	16	11.		Pipeline Foreman	5.00 day	3,198	40	79.95 /hr	3,198		0			0		0	0
1525	16	11.		D/L/B	250.00 lf	36,875	360	4,274.20 /day	21,371		0			0	3,100.80 /day	15,504	0
1526	16	11.		Trench Spoil Haul Off Support (LE)	5.00 ld	127	1	69.34 /hr	59		0			0	79.80 /hr	68	0
1527	16	11.		Pipe Zone Material - Ground Solutions	37.04 tn	630			0	17.00 /tn	630			0		0	0
1528	16	11.		<b>Excavation Rollup</b>	222.22 cy	0			0		0			0		0	0
1529	16	11.		<b>Backfill Rollup</b>	197.53 cy	0			0		0			0		0	0
1530	16	11.		<b>Warning Tape</b>	250.00 lf	0			0		0		/lf	0		0	0
1531	16	11.		<b>Tracer Wire</b>	250.00 lf	0			0		0		/lf	0		0	0
1532	16	11.		Rock Bags (50" O.C.)	62.50 ea	125			0		0	2.00 /ea	2.00	125		0	0



**LIFT STATION A  
REPLACEMENT PROJECT**

**PROJECT NO. 191001**

**TECHNICAL CONSTRUCTION SPECIFICATIONS  
DIVISION 01 - 48**




**NOVEMBER 2020**

**CDPHE REVIEW SET  
FINAL DESIGN SUBMITTAL**





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	<p><u>GENERAL, CIVIL &amp; PROCESS</u>  Specification Divisions 01, 02, 07, 09, 10, 23, 31, 32, 33, 35, 40, 43, 44, 46</p>
	<p><u>STRUCTURAL</u>  Specification Divisions 03, 05, 06, 31, 40</p>
	<p><u>ELECTRICAL</u>  Specification Divisions 26, 40</p>

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SECTION 01 01 10

TABLE OF CONTENTS FOR TECHNICAL SPECIFICATIONS (DIVS. 01-48)

<b>DIVISION 01</b>	<b>GENERAL REQUIREMENTS</b>
01 01 10	Table of Contents for Technical Specifications (Divs. 01-48)
01 11 00	Summary of Work
01 14 01	Method of Procedure (MOP) Requirements
01 14 14	Control of Work
01 31 13	Project Coordination
01 31 19	Project Meetings
01 32 16	CPM Construction Schedule Requirements
01 33 00	Submittals
01 35 53	Site Security
01 42 13	Abbreviations and Acronyms
01 42 19	Reference Standards
01 45 16	Contractor Quality Control
01 45 33	Special Inspections and Testing
01 50 00	Temporary Facilities and Controls
01 55 26	Traffic Control
01 57 13	Temporary Environmental Controls
01 61 00	Common Product Requirements
01 65 00	Delivery, Storage, and Handling
01 74 00	Cleaning
01 75 00	Manufacturer Services
01 75 16	Equipment Testing and Start-Up
01 77 00	Contract Closeout
01 78 23	Operation and Maintenance Data
01 78 39	Record Documents
01 81 10	Snow, Wind, and Seismic Design Criteria
01 93 10	Installation, Operation, and Maintenance Manuals

**DIVISION 02      EXISTING CONDITIONS**

- 02 01 20    Protection of Existing Utilities
- 02 01 30    Connections to Existing Buried Pipelines
- 02 32 19    Subsurface Utility Locating (Potholing)
- 02 41 00    Equipment, Piping, and Materials Demolition

**DIVISION 03      CONCRETE**

- 03 01 30    Concrete Repair
- 03 05 10    Leakage Testing of Containment Structures
- 03 10 00    Concrete Formwork
- 03 15 00    Concrete Joints and Accessories
- 03 21 00    Reinforcement Bars
- 03 30 00    Cast-in-Place Concrete
- 03 35 00    Concrete Finishes
- 03 40 00    Precast Concrete
- 03 42 10    Precast Circular Concrete Manholes
- 03 42 20    Precast Reinforced Concrete Vaults
- 03 60 00    Grout

**DIVISION 04      MASONRY (NOT USED)**

**DIVISION 05      METALS**

- 05 05 23    Welding
- 05 50 00    Miscellaneous Metal
- 05 53 00    Access Hatches

**DIVISION 06      WOOD, PLASTICS, AND COMPOSITES**

- 06 50 00    Structural FRP
- 06 60 10    FRP Grating and Stair Treads

06 60 20 FRP Ladders

06 60 30 FRP Railing

**DIVISION 07 THERMAL AND MOISTURE PROTECTION**

07 92 00 Architectural Caulking and Sealants

**DIVISION 08 OPENINGS (NOT USED)**

**DIVISION 09 FINISHES**

09 90 00 Painting and Coating

09 97 06 Polyethylene Encasement (AWWA C105)

09 97 12 Fusion-Bonded Epoxy Coatings and Linings (AWWA C116 and AWWA C213)

09 97 52 Cold-Applied Wax Tape Coating

09 97 78 Ceramic Epoxy Lining for Ductile Iron Pipe

**DIVISION 10 SPECIALTIES**

10 44 16 Fire Extinguishers

**DIVISIONS 11-22 (NOT USED)**

**DIVISION 23 HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)**

23 00 00 Heating, Ventilating, and Air Conditioning

23 09 00 HVAC Control System

23 31 16 Thermoset Fiberglass-Reinforced Plastic Ducts

23 34 23 HVAC Power Ventilators

**DIVISION 24-25 (NOT USED)**

**DIVISION 26 ELECTRICAL**

26 01 26 Electrical Field Testing

- 26 05 00 Electrical
- 26 05 73 Short-Circuit/Coordination Study/Arc Flash Hazard Analysis
- 26 24 13 Switchboards
- 26 24 19 Motor Control Centers
- 26 27 16 Electrical Equipment Enclosure
- 26 29 23 Variable-Frequency Motor Controllers
- 26 42 12 Cathodic Protection

**DIVISIONS 27-30 (NOT USED)**

**DIVISION 31 EARTHWORK**

- 31 10 00 Site Clearing
- 31 23 00 Earthwork
- 31 23 19 Dewatering and Control of Water
- 31 23 23 Gravel and Crushed Rock Base for Structures
- 31 23 43 Trenching, Backfilling, and Compacting
- 31 25 00 Erosion and Sedimentation Control
- 31 41 16 Sheet Piling

**DIVISION 32 EXTERIOR IMPROVEMENTS**

- 32 12 16 Crushed Rock Surfacing
- 32 12 20 Asphalt Paving
- 32 16 00 Concrete Curbs, Gutters, and Sidewalks
- 32 31 00 Fences and Gates
- 32 90 10 Site Restoration and Clean-Up

**DIVISION 33 UTILITIES**

- 33 01 30 Leakage and Infiltration Testing
- 33 05 26 Utility Identification
- 33 11 00 General Piping Components and Requirements

- 33 11 02 Flexible Pipe Couplings and Expansion Joints
- 33 11 04 Wall Pipes, Seep Rings, and Penetrations
- 33 11 12 Ductile Iron Pipe
- 33 11 15 PVC Pipe (3-Inches and Smaller)
- 33 11 17 PVC Pipe (4 to 8 Inches) With Solvent-Welded Joints
- 33 11 20 PVC Pressure Pipe
- 33 12 16 Valves for Water Works
- 33 14 00 Pressure Testing of Piping
- 33 31 12 PVC Gravity Sewer Pipe
- 33 31 50 Bypass Pumping

**DIVISION 34      TRANSPORTATION (NOT USED)**

**DIVISION 35      WATERWAY CONSTRUCTION**

- 35 20 16 Slide Gates

**DIVISIONS 36-39    (NOT USED)**

**DIVISION 40      PROCESS INTEGRATION**

- 40 07 64 Pipe Hangers and Supports
- 40 07 75 Equipment, Piping, Duct, and Valve Identification
- 40 50 00 PCIS - General Requirements
- 40 50 10 PCIS - Loop Descriptions
- 40 50 20 Instrumentation Equipment
- 40 50 40 Programmable Logic Controller System

**DIVISIONS 41-42    (NOT USED)**

**DIVISION 43      PROCESS GAS & LIQUID HANDLING, PURIFICATION, AND STORAGE  
EQUIPMENT**

- 43 21 40 Submersible Raw Wastewater Pumps



**DIVISION 44      POLLUTION AND WASTE CONTROL EQUIPMENT**

44 31 21    Odor Control Biofilter

**DIVISIONS 45      (NOT USED)**

**DIVISION 46      WATER AND WASTEWATER EQUIPMENT**

46 24 33    Open Channel Grinders

**DIVISIONS 47-48    (NOT USED)**

**SUPPLEMENTS – REPORTS**

1. Brierley Associates. (August 2020). Geotechnical Engineering Report, Northglenn Lift Station A, Northglenn, Colorado.

END OF SECTION