



**TOWN OF JOHNSTOWN
CENTRAL WASTEWATER TREATMENT PLANT
Guaranteed Maximum Price**

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General Contractor/Construction Manager

tzconstruction.com

**TOWN OF JOHNSTOWN
 CENTRAL WASTEWATER TREATMENT PLANT
 GMP - Totals Summary
 March 8, 2023**

Construction Costs		
01	General Requirements	\$ 3,739,303
02	Existing Conditions	\$ 2,115,722
03	Concrete	\$ 9,324,981
04	Masonry	\$ 383,633
05	Metals	\$ 1,487,297
06	Woods, Plastics, & Composites	\$ 233,800
07	Thermal & Moisture Protection	\$ 377,601
08	Openings	\$ 329,395
09	Finishes	\$ 1,275,001
10	Specialties	\$ 44,951
13	Special Construction	\$ 1,353,096
15	Owner Selected Equipment	\$ 4,759,653
22	Plumbing	\$ 784,093
23	HVAC	\$ 1,215,384
26	Electrical	\$ 7,548,166
31	Earthwork	\$ 4,080,083
32	Exterior Improvements	\$ 502,540
33	Utilities	\$ 206,080
40	Process Integration	\$ 9,155,680
41	Material Processing and Handling Equipment	\$ 113,469
43	Process Gas and Liquid Handling	\$ 1,176,574
44	Pollution Control Equipment	\$ 178,854
46	Wastewater Equipment	\$ 459,010
Total Construction Costs*		\$ 50,844,366
VE Savings (Included in Total Construction Costs)		\$ 5,682,288
Subtotal		\$ 45,162,078
Construction Manager Fee		7.50% \$ 3,387,156
Subtotal		\$ 48,549,234
Bonds & Insurance		1.65% \$ 801,062
TOTAL		\$ 49,350,296
Contingency		7.00% \$ 3,454,521
TOTAL INCLUDING Contingency		\$ 52,804,817



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**TOWN OF JOHNSTOWN
CENTRAL WASTEWATER TREATMENT PLANT PROJECT**

GMP - Assumptions, Clarifications, & Exceptions

March 8, 2023

1. Moltz Construction's bid is based on Drawings dated December 2022, Specifications dated December 2022, Addendum #1 dated February 3, 2023, and additional information sent by Craig with Aqua on February 9, 2023.
2. Moltz did not include any building permit fees or right of way fees. Moltz did include the stormwater permit fee and dewatering permit fee. Moltz will put together plans, get any necessary licenses, and help procure the permits but we did not carry any fees for these permits.
3. Moltz included \$165,170 for the Fire Department Review Fee, Permit Fees and Impact Fees.
4. Moltz Construction's Bid is based on a substantial completion date of 9/2/25 and final completion of 12/31/25.
5. Moltz assumed complete haul off for lagoon decommissioning. We are carrying \$1,510,000. Ponds were frozen and we were unable to verify sludge depth.
6. Moltz has included (4) Fire Hydrants, not shown on the documents, in our base bid.
7. Moltz has included Access Control at Exterior Doors not shown on the documents, \$106,100.
8. IPS Pumps have an estimated lead time of 54 weeks. We have included 7 months of temporary bypass pumping from October 31, 2023 to May 31, 2024 for bypassing the Influent Pump Station.
9. The Owner Selected Equipment is outside of the contract window for holding price. Following the contract procedure for increase in price, Moltz is carrying an additional \$260,773.00. Final Pricing for Owner Selected Equipment calculated by removing the submittal costs from quote and adding 6.7% (to account for forecasted CPI-U increase in Q1 2023 and adding 1% per terms in quotes.)
10. Suez has provided a cost for upgraded Permeate Pumps (Boerger Pumps - \$44,000) based on the 90% Design Documents and elevations to meet pump performance.
11. 400559 Gates – in with Golden Harvest Gates per Gate Schedule
12. 400559 Gates – Quoted as Aluminum per Gate Schedule
13. 400572 Flap Gates – in with Golden Harvest Gates per Gate Schedule
14. Auto Sampler – In with ISCO 5800 per Equipment Schedule. No Spec Section for Auto Sampler
15. 432256 Submersible Mixers – In with Sulzer
16. 432256 Submersible Mixers – Motor quoted Permanent Magnet Motor per Specifications. Johnstown Low Point Project used standard efficiency Squirrel Cage Motors.
17. 432358 Rotary Lobe Pumps – In with Vogelsang
18. 432358 Rotary Lobe Pumps – Vogelsang Model VX136-210 is called out in the Pump Schedule. Due to the speed limit of 300rpm, pump has to be upsized to meet desired flow. Model VX186-184 has been provided which can achieve the rated duty condition at 192rpm with a tip speed of 8fps.
19. 432421 Multi-Stage Centrifugal Pumps – NPW – In with Grundfos
20. 432513 Submersible Wet Well Pumps – EQ – In with Sulzer
21. 432513 Submersible Wet Well Pumps – Site Drain Lift Station – In with Sulzer

22. 432513 Submersible Wet Well Pumps – RAS Pumps – In with KSB per Pump Schedule
23. 432513 Submersible Wet Well Pumps – WAS Pumps – In with KSB per Pump Schedule
24. 432513 Submersible Wet Well Pumps – WAS Pumps – KSB doesn't offer a SS wear ring for this type of pump
25. 432513.33 Submersible Screw Impeller Pumps – IPS Pumps – In with Trillium
26. 432514 Submersible Horizontal Axial Flow Pumps – IMLR Pumps – In with Landia
27. 432514 Submersible Horizontal Axial Flow Pumps – IMLR Pumps – The specified low-flow duty point falls below the recommended minimum pump speed. Hence, it is not possible to cover the full range from 500 to 2,500 gpm with a single pump. The specified and recommended IR pump, model AXP-I, is sized for the high-flow duty point with turn-down.
28. 432514 Submersible Horizontal Axial Flow Pumps – IMLR Pumps – The motors Landia is providing are not NEMA MG1 but rather IEC Class N, the European equivalent with UL certification.
29. 432514 Submersible Horizontal Axial Flow Pumps – IMLR Pumps – The pumps must be operated with a water level of at least 51" above its centerline.
30. 433269 Chemical Feed Systems – In with Seepex
31. 434143 HDXLP Tanks – In with Poly Processing Tanks
32. 434144 Double Wall HDXLP Tanks – In with Poly Processing Tanks
33. 434143/434144 – HDXLP Tanks - The manufacturer provided restraint systems is metal clips and cable. They no longer use edge softeners and tension rings. All (4) four tanks are quoted with Stainless Steel Indoor seismic clips on concrete grade. The PE stamped calc's will be 2018 IBC however the newest version 2021 IBC codes are effective as of January 1, 2023.
34. 434143/434144 – HDXLP Tanks - U-vents are noted in the specification however the plan drawings do not show venting fittings or U-vents. All (4) four tanks are quoted with flanged fittings.
35. 434143/434144 – HDXLP Tanks - tanks are quoted with PTFE expansion joints.
36. 443119 Odor Control – In with Anua
37. 464123 Eductor Tube Mixer – In with JDV
38. 465131 Fine Bubble Diffusers – Process Basin – In with SSI per Equipment Schedule
39. 465131 Fine Bubble Diffusers – Process Basin – SSI recommends 8ea – 4" Drops in lieu of 6ea – 6" Drops, Moltz included the recommendation.
40. 465131 Fine Bubble Diffusers – Sludge Holding Tank – In with SSI for continuity across project.
41. Insulation for the exterior piping is figured to be 2" ASJ faced fiberglass insulation covered with 0.24 mil aluminum jacketing. Interior piping is covered with ASJ faced fiberglass insulation .02 mil pvc jacketing. Where noted on the drawings piping insulated 3' below grade is 2" celleulur glass insulation with pit wrap jacketing.
42. Per the Valmatic rep CV-10312 and HV-10312C is externaly glass coated only, they do not glass coat the inside of the valves.
43. Buried ductile iron pipe and fittings will be coated with standard asphaltic seal coat.
44. All buried pipes are restrained mechanically, no thrust blocks.
45. The buried PW line is quoted as DR14 and not the listed DR11.
46. All buried ductile iron pipe and fittings are cement lined.
47. There is no cathodic protection provided in the estimate.
48. Pipe bedding is squeegee.
49. Manholes are not coated, inside or out.
50. Buried air lines are unlined sch40 carbon steel to the first flange above grade.
51. The buried steel airline is coated with 20mil of S.W. Poly Coat 115.
52. All yard pipe cleanouts reduce to 4" .
53. All C900 is quoted as DR18. Our vendors are concerned that DR25 may not be available when needed. Savings of \$350,000 is possible if all sizes of DR25 is available when project requires.
54. Proposed alignment of the buried PW pipe conflicts with existing 16" line to the DAF building. PW line will not be online until after the new facility is online.
55. Length of SES Feeders from Utility Transformers PSEA are limited to 25'.

56. PUTI conduit and 13.2kV feeders are by utility.
57. Conduit and wire for future MBR Building are not included.
58. Assume there is no asbestos or lead paint in any of the items to be demoed.
59. The Town will flush out all process equipment in the Dewatering Building with NPW before decommissioning the units.
60. Assume Varco Pruden meets specification requirements for all building design components.
61. Moltz only put vapor barrier under the main headworks and MBR operating level slabs. Not all slabs per spec.
62. Moltz is assuming we can use recent break history for submitted concrete mix design instead of doing a trial batch.
63. Moltz did not water test site drain lift station.
64. Moltz assuming only exterior walls of Process/EQ basin will need to be crack injected and did not plan on injecting dividing walls to be dry to touch.
65. Moltz assumed temporary power can be utilized out of the existing blower building East of lagoons. Town to pay for power usage.
66. Moltz utilized form savers for influent and effluent boxes at process building slab and wall connection.
67. Moltz only planned on a volumetric water test after concrete is complete at headworks due to the different levels of construction.
68. Moltz has only includes a 7 day Reliance Acceptance Test (RAT) per spec 11000 summary of work. Moltz did not include the 30 day RAT in table 2 of 017500 Commissioning.
69. Moltz construction does not have a Waste Water License to run plant during the RAT. Moltz will be present along with equipment vendors that are needed to assist in commissioning during this time but we have not made any provisions to bring in a licensed operator.
70. After discussions with the town Moltz is planning on decommissioning the small lagoon that is not in service early in the project and using to for on site spoils.
71. Moltz is assuming any leftover spoils can be placed on site in lagoons after they are decommissioned.
72. In GMP estimate Moltz is using (XYPEX C500) at a rate of 12lbs per cy. (No amount was specified)
73. Moltz will strip existing topsoil and replace only, we did not import any extra topsoil.
74. Moltz did not include any PRVs to account for groundwater and potential of floating structures.
75. Moltz included \$345,000 for the Admin alternate budget.
76. Moltz included \$250,000 for third party on-site testing.
77. Moltz included \$36,000 for an Engineer's field office.



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**TOWN OF JOHNSTOWN
 CENTRAL WASTEWATER TREATMENT PLANT
 GMP - Value Engineering
 March 8, 2023**

Description	Estimated	Final	Action	Accepted By:			Notes
				Johnstown	Aqua	Moltz	
1 Use Sulzer IMLR Pumps (In with Landia currently)	\$ (5,000.00)	\$ (5,000.00)	Accept				Follow Up With Wayne
2 Permeate Tank Manufacturer only requires fittings in the lower 1/3rd of the sidewall to have an expansion fitting. Removing the 18" expansion fitting would result in a \$24,600 savings	\$ (24,600.00)	\$ (24,600.00)	Accept				Follow Up Later, Add Back In if Budget Aallows
3 Provide IBC Spill Containment Pallets with no Scales	\$ (45,000.00)	\$ (45,000.00)	Accept				
4 Use Wilo NPW Skid in lieu of Groundfos	\$ (30,000.00)	\$ (30,000.00)	Accept				
5 Use IDEC PLC/HMI for Odor Control Control Panel in lieu of Allen Bradley. IDEC was provided on the Johnstown Lowpoint Project	\$ (25,000.00)	\$ (25,000.00)	Accept				Aqua is following Up
6 Use EcoVerde for Odor Control in lieu of Anua.	\$ (50,000.00)	\$ -	Decline				Aqua is following Up
7 Allow plain accessories for buried MJ fittings in lieu of 316 SS	\$ (30,000.00)	\$ (30,000.00)	Accept				
8 Allow plain accessories for bell restraints	\$ (370,000.00)	\$ (370,000.00)	Accept				Wrap Bell Restraints
9 Eliminate joint restraints on Pipes 1, 3, 4, 5, 9, 11, 15, 16, 17, 18, 20 per schedule on 01C504	\$ (240,000.00)	\$ (205,000.00)	Accept				If #9 is accepted. If #9 is not accepted, \$510,000 savings, Keep Line 11
10 Use DR 25 PVC pipe in place of DR 18	\$ (295,000.00)	\$ (295,000.00)	Accept				
11 Delete Coating 312 epoxy floor coating (MBR and Headworks Floor)	\$ (125,000.00)	\$ (125,000.00)	Accept				Follow Up Later, Add Back In if Budget Aallows
12 Use 3/8" pea gravel 4000 psi grout fill concrete in place of non-shrink grout at all grout fillet locations	\$ (63,520.00)	\$ (63,520.00)	Accept				
13 Use Shake on red dye at duct banks vs integral red dye (only on top)	\$ (21,680.00)	\$ (21,680.00)	Accept				
14 Do not put XYPEX admixture in water retaining structures	\$ (469,720.00)	\$ (469,720.00)	Accept				Keep in Influent Pump Station and Headworks channels, Delete coatings
15 Use Adeka waterstop in place of Greenstreak 609 waterstop	\$ (28,701.00)	\$ (28,701.00)	Accept				
16 Eliminate full immersion passivation, passivation of welds only on SS pipe	\$ -	\$ -	Decline				
17 Pour Sludge tank in one placement	\$ (6,948.00)	\$ -	Decline				Continue Discussion
18 Delete radio requirement for Bridge Crane controllers	\$ (40,000.00)	\$ (40,000.00)	Accept				
19 Alternate monorail crane at Process Basin. See qutoes	\$ (30,000.00)	\$ (30,000.00)	Accept				
20 Delete Admin Alternative Items	\$ (345,000.00)	\$ (345,000.00)	Accept				
21 Minimize Access Control per email sent by Craig/Aqua on 3/7/23	\$ (106,100.00)	\$ (42,000.00)	Accept				
22 Delete Third Party Testing from Moltz Scope	\$ (250,000.00)	\$ (250,000.00)	Accept				Still overall Project Cost
23 Delete Fire Department Fees from Moltz Scope	\$ (165,170.00)	\$ (165,170.00)	Accept				
24 Run NPW at Process Basins as copper in lieu of SST (already jacketed and heat traced)	\$ -	\$ -	Decline				

Total Adjustment to Costs Subject to Contractor's Fee \$ (2,610,391.00)



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 GMP - Value Engineering
 March 8, 2023**

Description	Estimated	Final	Action	Accepted By:			Notes
				Johnstown	Aqua	Moltz	
25 Exhaust Fans H-10921 THRU H-10825 Provide backdraft dampers only, not requiring explosion proof actuators.	\$ (17,500.00)	\$ (17,500.00)	Accept				
26 Use Good Alternative Panel in lieu of Centria panel(added in spec 07413)	\$ (30,000.00)	\$ (30,000.00)	Accept				
27 Replace stainless steel compressed air piping to copper piping.	\$ -	\$ -	Decline				
28 Delete glass lining on glass lined Ductile iron piping	\$ -	\$ -	Decline				
29 Tie Central Interceptor into existing second MH before existing influent flume.	\$ -	\$ -	Decline				
30 Re-rout the ductbank feeding the 2 motor control centers in the MRB building. Since the distribution panel DP-EM is now in the admin electrical room per addendum #5 the ductbank can be cut in half by going out straight to PB-2 instead of going around the admin building like its shown on E201. Those are both 1000A feeders.	\$ (80,000.00)	\$ (40,000.00)	Accept				Will work with electrical engineer to reduce further throughout project, this is what we feel comfortable getting an approval on at this point.
31 Delete coating 307 at IPS and headworks	\$ (86,000.00)	\$ (86,000.00)	Accept				
32 Relocating Switchgear from Admin. Bldg.			Hold				
33 Decrease size from 8" to 6" on Potable Water Line	\$ (18,200.00)		Hold				
34 Eliminate Bypass Pumping at IPS	\$ (92,600.00)	\$ (92,600.00)	Accept				
35 Truck excess soils to CO Sweet Gold	\$ (96,900.00)	\$ (96,900.00)	Accept				
36 Delete Engineer On-Site Trailer (if not needed)	\$ (36,000.00)	\$ (36,000.00)	Accept				
37 Alternative lighting fixture package. Most of the savings is going to a Lumax fixture in the Headworks instead of the spec Holophane.	\$ (52,500.00)		Hold				Send data sheets on Lumax to SKM
38 Reduce processors all (3) PLC's from 3MB memory to 0.6MB	\$ (14,700.00)		Hold				Review with SKM
39 5 year to 3 year VFD Warranty	\$ (30,000.00)		Hold				Check with Town, SKM is okay with 3 year.
40 Generator: Ratings (cooling) ambient temperatures up to 122 degrees F, 104 Degrees F is usually provided in CO, reduce requirement to 104 Degree F	\$ (20,000.00)	\$ (20,000.00)	Accept				Platville and Broomfield have 104; Wellington and Low Point have 122
41 Moltz Discussion with Electricians & Moving forward with Sturgeon	\$ (500,000.00)	\$ (500,000.00)	Accept				
42 Change PVC Coated 90 to Fiberglass where concrete encased	\$ (15,448.00)	\$ (15,448.00)	Accept				
43 Generator Transfer Switch			Hold				
44 4160V Electrical System			Hold				
45 Change Main Feed from Copper to Aluminum	\$ (20,000.00)	\$ -	Decline				

Total Adjustment to Costs Subject to Contractor's Fee \$ (3,544,839.00)



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 GMP - Value Engineering
 March 8, 2023**

Description	Estimated	Final	Action	Accepted By:			Notes
				Johnstown	Aqua	Moltz	
Scope Reduction Items							
46 Reduce size of Effluent Pipe to 18", Keep Existing	\$ (120,000.00)	\$ (120,000.00)	Accept				\$200,000 Savings to go to 12" Pipe.
47 Minimize Asphalt, Leave Roadbase per email sent by Craig/Aqua on 3/3/23	\$ (397,000.00)	\$ (169,000.00)	Accept				Repriced drawings sent by Craig on 3/3/23
48 Delete Security Fence	\$ (105,000.00)	\$ -	Decline				
49 Delete Decommissioning of Lagoons 1 and 2, including reduction in GCs	\$ 1,200,000.00	\$ (1,265,800.00)	Accept				Additional Follow up needed on timing but Town will carry
50 Delete Demo of Equipment at Lagoons 1&2, Including MBR, Aerators, Blowers, Flume and Screen	\$ (190,000.00)	\$ (156,000.00)	Accept				
51 Delete Process Basin Spray Nozzels	\$ (141,366.00)	\$ (135,000.00)	Accept				Look at PVC system that can be drained when not in use
52 Delete Lanscape Rock per email sent by Craig/Aqua on 3/3/23	\$ (47,000.00)	\$ (17,300.00)	Accept				Change to Roadbase
53 Eliminate 12" Parallel Pipe from IPS	\$ (127,949.00)	\$ (127,949.00)	Accept				
54 Delete NPW Line East of IPS to tie point	\$ (60,000.00)	\$ (32,000.00)	Accept				Keep line west of basins to hydrant, delete rest
55 Eliminate cleanouts per drawings sent by Craig/Aqua on 3/7/23	\$ (114,400.00)	\$ (114,400.00)	Accept				
56 Reduce size of Incoming Electrical Feed from 5,000 AMP to 4,000 AMP			Hold				
57 Delete Dewatering Building Demo and Base Admin. Build out	\$ (225,000.00)	\$ -	Decline				Look at better plumbing route, any other cost savings ideas
58 Delete Solids Holding Tank	\$ (500,000.00)	\$ -	Decline				
59							
60							
61							
62							
63							
64							
65							
66							

Total Adjustment to Costs Subject to Contractor's Fee \$ (5,682,288.00)



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TOWN OF JOHNSTOWN
CENTRAL WASTEWATER TREATMENT PLANT
 90% Cost Comparison Notes
 February 20, 2023

Description	90%	Notes
01 General Requirements	\$ 3,739,303	\$250,000 Material Testing Sub, \$165,170 Fire Dept. Fees, \$36,000 Engineering Trailer
02 Existing Conditions	\$ 2,115,722	Carrying \$1,510,000 for lagoon decommissioning (carried \$800,000 at 60%)
03 Concrete	\$ 9,324,981	\$498,720 added for Xypex, high price per ton of steel rebar, price increased 10% at beginning of 2023 for concrete
04 Masonry	\$ 383,633	
05 Metals	\$ 1,487,297	Prices of steel are high, bid scope out
06 Woods, Plastics, & Composites	\$ 233,800	FRP composite material price
07 Thermal & Moisture Protection	\$ 377,601	
08 Openings	\$ 329,395	
09 Finishes	\$ 1,275,001	High Solids Influent Pump Station and Headwork Channels coatings
10 Specialties	\$ 44,951	
13 Special Construction	\$ 1,353,096.00	60% did not show load out area, MBR Building Hight increased, Exterior Metal Panels, includes Bridge Crane
15 Owner Selected Equipment	\$ 4,759,653	Increase of \$260,773 on Owner Selected Equipment
22 Plumbing	\$ 784,093	NPW Basin Spray System was added
23 HVAC	\$ 1,215,384	Added Detail, replacing existing MAU
26 Electrical	\$ 7,548,166	Increased Detail
31 Earthwork	\$ 4,080,083	
32 Exterior Improvements	\$ 502,540	
33 Utilities	\$ 206,080	
40 Process Integration	\$ 9,155,680	High pipe prices, see Value Engineering ideas
41 Material Process & Handling Equip	\$ 113,469	
43 Process Gas and Liquid Handling Equip	\$ 1,176,574	Bid out all pumps
44 Pollution Control Equip	\$ 178,854	
46 Wastewater Equipment	\$ 459,010	



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**TOWN OF JOHNSTOWN
CENTRAL WASTEWATER TREATMENT FACILITY**

GMP - Quotes
February 20, 2023

Provided in Separate File

Project name	Central WWTP GMP - Jon Johnstown CO
Labor rate table	Labor - Raw (MCI)
Equipment rate table	Equipment - MCI
Report format	Sorted by 'Spec #/Area/System/Assembly' 'Detail' summary

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total	
010000 General Requirements														
00 GEN General														
General Conditions General														
01 -100 General Conditions (mci)														
Construction Manager	1006.100	30.00 wk	/ wk		/ wk			/ wk		5,400.00 / wk	162,000	162,000	162,000	
Project Manager	1006.100	130.00 wk	-	-	/wk			50.00 /ea	6,500	3,472.00 /wk	451,360	457,860	457,860	
Project Engineer	1006.100	130.00 wk	-	-	/wk			75.00 /ea	9,750	2,870.00 /wk	373,100	382,850	382,850	
Superintendent	1022.100	130.00 wk	2,480.00 /wk	322,400	/wk			/ea		/wk		322,400	464,256	
Assistant Superintendent	1022.100	65.00 wk	2,080.00 /wk	135,200	/wk			/ea		/wk		135,200	194,688	
Field Engineer	1630.100	130.00 wk	2,080.00 /wk	270,400	/wk			/wk		/wk		270,400	389,376	
Rodman	1630.100	50.00 wk	1,280.00 /wk	64,000	/wk			/ea		/wk		64,000	92,160	
Yard Man	1000.100	50.00 wk	1,280.00 /wk	64,000	/wk			/wk		/wk		64,000	92,160	
Pickup	1900.210	144.00 Mnth	/Mnth		/Mnth			1,000.00 /Mnth	144,000	514.00 /Mnth	74,016	218,016	218,016	
Project Signs 4x8	1614.100	1.00 ea	33.00 /mh	528	/ea	2,000.00	2,000	/ea		/ea		2,528	2,760	
Fuel Stipend for crew leads	1642.100	130.00 wks	/wks		/wks			/wks		600.00 /wks	78,000	78,000	78,000	
Safety	1116.100	1.00 ls	/ls		/ls	35,000.00	35,000	/ls		64,000.00 /ls	64,000	99,000	99,000	
Safety Plank	1116.200	500.00 lf	/lf		/lf	5.00	2,500	/lf		/lf		2,500	2,500	
Safety Rail	1116.200	500.00 lf	33.00 /mh		/lf	5.00	2,500	/lf		/lf		2,500	2,500	
Temporary Fences	1116.200	1.00 ls	/ls		/ls		15,000	/ls		/ls		15,000	15,000	
Site Security/Alarm System	1644.100	30.00 Mnth	33.00 /mh	9,900	/Mnth	750.00	22,500	/Mnth		/Mnth		32,400	36,756	
Internet Charges	1162.100	30.00 Mnth	/Mnth		/Mnth	350.00	10,500	/Mnth		/Mnth		10,500	10,500	
Temporary Toilets	1162.100	150.00 Mnth	/Mnth		/Mnth	250.00	37,500	/Mnth		/Mnth		37,500	37,500	
Cell Phone	1162.100	150.00 Mnth	/Mnth		/Mnth			100.00 /Mnth	15,000	/Mnth		15,000	15,000	
Radios	1162.100	30.00 Mnth	/Mnth		/Mnth	100.00	3,000	/Mnth		/Mnth		3,000	3,000	
Project Management Software	1672.200	30.00 Mnth	/Mnth		/Mnth			/Mnth		1,500.00 /Mnth	45,000	45,000	45,000	
Drinking Water	1162.100	1.00 ls	/ls		/ls	8,000.00	8,000	/ls		/ls		8,000	8,000	
Documents - Freight and Postage	1060.100	1.00 ls	/ls		/ls	5,000.00	5,000	/ls		/ls		5,000	5,000	
Photos - Project by GC	1104.100	30.00 mnth	33.00 /mh	7,920	/mnth	250.00	7,500	/mnth		/mnth		15,420	18,905	
Survey Equipment	1630.100	30.00 Mnth	33.00 /mh		/Mnth	1,500.00	45,000	/Mnth	3,000.00	/Mnth	90,000	135,000	135,000	
40' Storage Trailer	1900.142	60.00 Mnth	/Mnth		/Mnth			200.00 /Mnth	12,000	50.00 /Mnth	3,000	15,000	15,000	
Temp Office and Storage Construction	1900.142	1.00 ls	33.00 /mh	5,280	/ls	120,000.00	120,000	/ls		/ls		125,280	127,603	
Staging Area Rock	2305.250	100.00 cy	33.00 /mh	1,650	/cy	36.00	5,760	/cy		/cy		7,410	8,136	
(3rd Party) Semi Tractor	1900.210	80.00 Hrs	/Hrs		/Hrs			/Hrs		/Hrs		12,000	12,000	
Mob & Demob Labor	1900.210	360.00 hr	33.00 /mh	11,880	/hr			/hr		/hr		11,880	17,107	
Final Cleaning	1714.100	1.00 ls	33.00 /mh	7,920	/ls	3,500.00	3,500	/ls		/ls		11,420	14,905	
Dumpster Pick up and return	1714.100	130.00 ea	/ea		/ea	750.00	97,500	/ea		/ea		97,500	97,500	
Drug Testing	1116.100	1.00 ls	/ls		/ls			/ls		5,000.00 /ls	5,000	5,000	5,000	
Advertising	1642.100	1.00 ls	/ls		/ls			/ls		4,000.00 /ls	4,000	4,000	4,000	
Inspector's Trailer	1672.100	30.00 Mnth	/Mnth		/Mnth	1,200.00	36,000	/Mnth		/Mnth		36,000	36,000	
Survey & Layouts build depart layback and Final Survey by LS	1630.100	1.00 ls	33.00 /mh		/ls	0.00	0	/ls		/ls		15,000	15,000	
01 -100 General Items and budgets														
Permit - Stormwater	1222.100	1.00 ls	/ls		/ls			0.00 /ls	0	1,225.00 /ls	1,225	1,225	1,225	
Permit - Dewatering	1222.100	1.00 ls	/ls		/ls			0.00 /ls	0	2,870.00 /ls	2,870	2,870	2,870	
Permit - Fire Department Fee	1222.100	1.00 ls	/ls		/ls			/ls		165,170.00 /ls	165,170	165,170	165,170	
Materials Testing Sub	2631.360	1.00 ls	/ls		/ls			/ls		/ls		250,000	250,000	
020960 Temp Bypass Pumping														
01 CIV Civil														
Bypass Pumping Bypass Pumping														
150-55 83 Bypass Pumping														
Bypass Pumping #1 Influent Tie in at MH-1 (pump 3 week 1500 lf discharge)	2240.150	1.00 ls	33.00 /mh	3,960	/ls			/ls		1,500.00 /ls	1,500	41,460	43,202	
Bypass Pumping #2 Effluent Tie into river (pump 1 week 2000 lf discharge)	2240.150	1.00 ls	33.00 /mh	1,320	/ls			/ls		1,500.00 /ls	1,500	40,620	41,201	
Bypass Pumping #3 Lower Lagoon water levels (2 months) 6" pump with rubber discharge	2240.150	1.00 ls	33.00 /mh	2,640	/ls			/ls		1,500.00 /ls	1,500	20,140	21,302	
Bypass Pumping #4 Influent Pump Station to tie in headworks 1 week discharge hose 1 pump smaller flow	2240.150	1.00 ls	33.00 /mh	1,320	/ls	0.00	0	/ls		1,500.00 /ls	1,500	15,320	15,901	
Bypass Pumping #5 fill plant with effluent for start up 1 month smaller flow, pump and hose	2240.150	1.00 ls	33.00 /mh	1,320	/ls			/ls		1,500.00 /ls	1,500	12,320	12,901	
Pumping Effluent for water truck	2240.150	24.00 mo	33.00 /mh	3,168	/mo	0.00	0	/mo	500.00	/mo	12,000	100.00 /mo	2,400	17,568
024100 Demo														
01 CIV Civil														
Demo														
020- CIV Site Demo at Ex MBR														
Demo Equipment - Exisitng MBR System	2220.140	1.00 ls	33.00 /mh	264	/ls			/ls		/ls		264	380	
Komatsu PC200 Excavator w/ Breaker (141 HP) (L)	1900.136	0.50 Mnth	/Mnth		/Mnth			10,400.00 /Mnth	5,200	2,500.00 /Mnth	1,250	6,450	6,450	
Vac Truck	1900.142	30.00 hrs	/hrs		/hrs			9,000	0	0.00 /hrs	0	9,000	9,000	
Demo Conc Walls Heavy Rebar 14" walls 2'-0	2220.083	360.00 LF	33.00 /mh	3,564	/LF			/LF		/LF		3,564	5,132	
Demo Metal Railings	2220.490	240.00 lf	33.00 /mh	396	/lf			/lf		/lf		396	570	
Demo Metal Light Poles	2220.490	6.00 ea	33.00 /mh	396	/ea			/ch		/ea		396	570	
Dumpster Pickups	2220.980	5.00 ea	/ea		/ea	750.00	3,750	/ea		/ea		3,750	3,750	
Demo Gates	2220.840	8.00 ea	33.00 /mh	2,112	/ea			/ea		/ea		2,112	3,041	
Demo SS Pipe 6"	2220.625	240.00 lf	33.00 /mh	143	/lf			/lf		/lf		143	205	
Backfill - MBR Mass BF	2319.302	1,800.00 cy	33.00 /mh	9,504	/cy			/cy		/cy		9,504	13,686	
John Deere 624 Loader (172 HP) (M)	1900.132	1.00 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	6,000	3,000.00 /Mnth	3,000	9,000	9,000	
Komatsu PC300 Excavator (232 HP) (L)	1900.136	1.00 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	9,200	3,500.00 /Mnth	3,500	12,700	12,700	
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	1.00 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	2,500	500.00 /Mnth	500	3,000	3,000	
Demo CS Pipe 2" Conduits and Panels	2220.620	650.00 lf	33.00 /mh	1,532	/lf	0.00	0	/lf		/lf		1,532	2,206	
020- CIV Demo Surface Aerators														
Demo Equipment for Salvage Surface Aerators	2220.140	4.00 ea	33.00 /mh	1,056	/ea	0.00	0	/ea		/ea		1,056	1,521	
John Deere 624 Loader (172 HP) (M)	1900.132	0.08 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	480	3,000.00 /Mnth	240	720	720	
Dumpster	1714.100	1.00 ea	/ea		/ea	750.00	750	/ea		/ea		750	750	
020- CIV Demo Blowers at Ponds														
Demo Equipment - Blower Equipment and Controls	2220.140	5.00 ea	33.00 /mh	2,640	/ea			/ea		/ea		2,640	3,802	
Sidewall Sheath 5/8" Fire Seal Bldg Opening	6160.100	256.00 sf	33.00 /mh	2,112	/sf	4.00	1,096	/sf		/sf		3,208	4,137	

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
020- CIV Demo Blowers at Ponds													
Demo SS Pipe 12" At Ponds	2220.625	550.00 lf	33.00 /mh	3,630	/lf			/lf		/lf		3,630	5,227
Bobcat Skid Steer (85hp)- track (L)	1900.131	0.50 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	1,900	2,000.00 /Mnth	1,000	2,900	2,900
Demo Equipment - HVAC Equipment	2220.140	5.00 ea	33.00 /mh	1,320	/ea			/ea		/ea		1,320	1,901
Demo CS Pipe 2" Conduits and Panels	2220.620	200.00 lf	33.00 /mh	660	0.00 /lf	0		/lf		/lf		660	950
Demo CS Pipe 2"	2220.620	300.00 lf	33.00 /mh	990	0.00 /lf	0		/lf		/lf		990	1,426
Dumpster	1714.100	1.00 ea	/ea		750.00 /ea	750		/ea		/ea		750	750
020- CIV Demo Flume and Div Str													
PVC C-900 Caps 24 g	2336.330	7.00 ea	33.00 /mh	3,696	1,950.00 /ea	13,650		/ea		/ea		17,346	18,972
Pot Hole Existing Inf Tie and Demo	2333.010	6.00 ea	33.00 /mh	1,584	/ea			/ea		/ea		1,584	2,281
Demo Buried PVC Pipe C900 24	2230.100	200.00 lf	33.00 /mh	1,980	0.00 /lf	0		/lf		/lf		1,980	2,851
Dumpster Pickups	2220.980	5.00 ea	/ea		750.00 /ea	3,750		/ea		/ea		3,750	3,750
Backfill - Dental Flume and Diversion Str	2319.302	150.00 cy	33.00 /mh	792	0.00 /cy	0		/cy		/cy		792	1,140
Mikasa Jumping Jack Compactor (L)	1900.138	0.13 Mnth	/Mnth		/Mnth			200.00 /Mnth	26	100.00 /Mnth	13	39	39
Sakai SV540 Compactor Single Drum 84" (160 HP) (L)	1900.138	0.13 Mnth	/Mnth		/Mnth			3,900.00 /Mnth	507	1,650.00 /Mnth	215	722	722
Bobcat Skid Steer (85hp)- track (L)	1900.131	0.13 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	494	2,000.00 /Mnth	260	754	754
Dumpster	1714.100	1.00 ea	/ea		750.00 /ea	750		/ea		/ea		750	750
PVC C-160 Caps 12	2336.230	1.00 ea	33.00 /mh	30	750.00 /ea	750		/ea		/ea		780	793
PVC C-160 Caps 16	2336.230	1.00 ea	33.00 /mh	30	1,500.00 /ea	1,500		/ea		/ea		1,530	1,543
020- CIV Screening Unit, Pumps and Controls													
Demo Equipment for Salvage Screening Unit and Pumps	2220.140	1.00 ls	33.00 /mh	3,696	/ls			/ls		/ls		3,696	5,322
Backfill - Dental	2319.302	150.00 cy	33.00 /mh	990	/cy			/cy		/cy		990	1,426
Demo Conc Walls Light Rebar	2220.083	15.00 cy	33.00 /mh	5,940	/cy			/cy		/cy		5,940	8,554
Bobcat Skid Steer (85hp)- track (L)	1900.131	0.08 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	304	2,000.00 /Mnth	160	464	464
Dumpster	1714.100	2.00 ea	/ea		750.00 /ea	1,500		/ea		/ea		1,500	1,500
Bobcat E85 Mini-Excavator with breaker	1900.136	1.00 Mnth	/Mnth		/Mnth			4,500.00 /Mnth	4,500	1,800.00 /Mnth	1,800	6,300	6,300
Bobcat Skid Steer (85hp)- track (L)	1900.131	1.00 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	3,800	2,000.00 /Mnth	2,000	5,800	5,800
020- CIV Relocate Trees													
Demo Tree	2220.040	12.00 ea	33.00 /mh	2,376	/ea			/ea		/ea		2,376	3,421
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.25 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	950	1,800.00 /Mnth	450	1,400	1,400
Trees - Standard Species	2322.090	6.00 ea	/ea		/ea		12,000	/ea		/ea		12,000	12,000
Dumpster	1714.100	3.00 ea	/ea		750.00 /ea	2,250		/ea		/ea		2,250	2,250
020- CIV - Demo Lift Station Near DWT													
Demo Manholes includes one by mbr	2220.730	2.00 ea	33.00 /mh	1,056	/ea			/ea		/ea		1,056	1,521
Dump Fees	2220.980	30.00 tn	/tn		58.00 /tn	1,740		/tn		/tn		1,740	1,740
(3rd Party) Dump Truck, 10 wheel	1900.210	18.00 Hrs	/Hrs		/Hrs		2,160	/Hrs		/Hrs		2,160	2,160
Demo Buried PVC Pipe C900 8"	2230.100	60.00 lf	33.00 /mh	495	/lf			/lf		/lf		495	713
Backfill - Dental	2319.302	30.00 cy	33.00 /mh	158	/cy			/cy		/cy		158	228
Mikasa Jumping Jack Compactor (L)	1900.138	0.08 Mnth	/Mnth		/Mnth			200.00 /Mnth	16	100.00 /Mnth	8	24	24
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.08 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	200	500.00 /Mnth	40	240	240
Demo CS Pipe 2" Conduits and Panel	2220.620	100.00 lf	33.00 /mh	330	0.00 /lf	0		/lf		/lf		330	475
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.15 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	570	1,800.00 /Mnth	270	840	840
020- CIV - Demo Tanks and Pumps Under Pole Barn													
Demo Equipment for Salvage Chem Feed Tank and Equipment	2220.140	1.00 ls	33.00 /mh	3,960	/ls			/ls		/ls		3,960	5,702
Bobcat E85 Mini-Excavator with breaker	1900.136	0.50 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	1,900	1,800.00 /Mnth	900	2,800	2,800
(3rd Party) Dump Truck, 10 wheel	1900.210	32.00 Hrs	/Hrs		/Hrs		3,840	/Hrs		/Hrs		3,840	3,840
Dump Fees	2220.980	70.00 tn	/tn		58.00 /tn	4,060		/tn		/tn		4,060	4,060
Dumpster Pickups	2220.980	2.00 ea	/ea		750.00 /ea	1,500		/ea		/ea		1,500	1,500
Demo CS Pipe 2" Conduits and Panels	2220.620	400.00 lf	33.00 /mh	1,320	0.00 /lf	0		/lf		/lf		1,320	1,901
Demo Conc Housekeeping Pads	2220.083	35.00 cy	33.00 /mh	6,930	0.00 /cy	0		/cy		/cy		6,930	9,979
Grind/Patch Concrete	3350.130	1,800.00 sf	33.00 /mh	885	1.00 /sf	1,800		/sf		/sf		2,685	3,074
90 lb Jack Hammer	1900.138	0.50 Mnth	/Mnth		/Mnth			500.00 /Mnth	250	100.00 /Mnth	50	300	300
Cut N Break Saw (Add Blade Pricing)	1900.138	0.50 Mnth	/Mnth		/Mnth			500.00 /Mnth	250	150.00 /Mnth	75	325	325
Air Compressor 185 cfm (66 HP) (L)	1900.010	0.50 Mnth	/Mnth		/Mnth			850.00 /Mnth	425	705.00 /Mnth	353	778	778
John Deere 624 Loader (172 HP) (M)	1900.132	0.50 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	3,000	3,000.00 /Mnth	1,500	4,500	4,500
41 ADM Administration Bldg													
Demo													
020- DWT Demo PEMB for Door near Lockers													
Demo Brick Wall 12"	2220.480	20.00 sf	33.00 /mh	660	/sf			/ch		/sf		660	950
Buy Studs 8" 14 Ga.	9270.800	24.00 lf	/lf		4.00 /lf	103		/lf		/lf		103	103
Patch/Tooth Door 12" Block	4220.190	1.00 ea	33.00 /mh	528	250.00 /ea	263		/ea		/ea		791	1,023
41 DWT Dewatering Building													
Demo													
020- DWT HVAC Room													
Demo HVAC Equip	2220.040	2.00 ea	33.00 /mh	3,168	/ea			/ea		/ea		3,168	4,562
Dumpster	1714.100	2.00 ea	/ea		750.00 /ea	1,500		/ea		/ea		1,500	1,500
020- DWT Chem Feed Pump Room													
Demo Equipment - Chem Feed Skids and Tanks	2220.140	1.00 ls	33.00 /mh	3,960	/ls			/ls		/ls		3,960	5,702
Concrete Curb Remove/Dispose	2220.090	30.00 lf	33.00 /mh	990	0.00 /lf	0		/ch		/lf		990	1,426
Demo Conc Housekeeping Pads	2220.083	16.00 cy	33.00 /mh	4,224	/cy			/cy		/cy		4,224	6,083
Non Shrink Grout Sump	3601.100	40.00 cf	10.00 /cf	400	60.00 /cf	2,400		/cf		/cf		2,800	2,976
Patch Walls from Conduit demo	3350.130	3,000.00 sf	33.00 /mh	1,768	1.00 /sf	3,000		/sf		/sf		4,768	5,546
Bush Hammer Slab	2220.205	420.00 sf	33.00 /mh	1,733	/sf			/ch		/sf		1,733	2,495
Dumpster	2220.980	4.00 ea	/ea		750.00 /ea	3,000		/ea		/ea		3,000	3,000
Demo CS Pipe 2" Conduits and Panels	2220.620	200.00 lf	33.00 /mh	660	0.00 /lf	0		/lf		/lf		660	950
90 lb Jack Hammer	1900.138	0.50 Mnth	/Mnth		/Mnth			500.00 /Mnth	250	100.00 /Mnth	50	300	300
Air Compressor 185 cfm (66 HP) (L)	1900.010	0.50 Mnth	/Mnth		/Mnth			850.00 /Mnth	425	705.00 /Mnth	353	778	778
020- DWT Demo NPW Tank/ Skid and Pads													
Bush Hammer Slab	2220.205	65.00 sf	33.00 /mh	429	/sf			/ch		/sf		429	618
Demo Equipment - NPW Skid	2220.140	1.00 ls	33.00 /mh	3,168	/ls			/ls		/ls		3,168	4,562
Demo Equipment - NPW Tank 12'x12' HDPE?	2220.140	1.00 ls	33.00 /mh	3,168	/ls			/ls		/ls		3,168	4,562

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
020- DWT Demo NPW Tank/ Skid and Pads													
Dumpster	2220.980	3.00 ea	/ea		750.00 /ea	2,250		/ea		/ea		2,250	2,250
Demo Conc Housekeeping Pads	2220.083	5.00 cy	33.00 /mh	1,980	/cy			/cy		/cy		1,980	2,851
Grind/Patch Slab	3350.130	65.00 sf	33.00 /mh	429	1.00 /sf	65		/sf		/sf		494	683
Cut N Break Saw (Add Blade Pricing)	1900.138	0.50 Mnth	/Mnth		0.00 /Mnth	0		500.00 /Mnth	250	150.00 /Mnth	75	325	325
90 lb Jack Hammer	1900.138	0.50 Mnth	/Mnth		500.00 /Mnth			500.00 /Mnth	250	100.00 /Mnth	50	300	300
Air Compressor 185 cfm (66 HP) (L)	1900.010	0.50 Mnth	/Mnth		/Mnth			850.00 /Mnth	425	705.00 /Mnth	353	778	778
Demo CS Pipe 2"	2220.620	250.00 lf	33.00 /mh	825	0.00 /lf	0		/lf		/lf		825	1,188
020- DWT DAF Recycle Skid													
Demo Equipment - DAF Recycle Skid	2220.140	1.00 ls	33.00 /mh	2,112	/ls			/ls		/ls		2,112	3,041
Bush Hammer Slab	2220.205	240.00 sf	33.00 /mh	317	/sf			/ch		/sf		317	456
Dumpster	2220.980	2.00 ea	/ea		750.00 /ea	1,500		/ea		/ea		1,500	1,500
Demo Conc Housekeeping Pads	2220.083	5.00 cy	33.00 /mh	1,980	/cy			/cy		/cy		1,980	2,851
Grind/Patch Slab	3350.130	240.00 sf	33.00 /mh	1,584	1.00 /sf	240		/sf		/sf		1,824	2,521
60 lb Jack Hammer	1900.138	0.20 Mnth	/Mnth		/Mnth			500.00 /Mnth	100	100.00 /Mnth	20	120	120
Cut N Break Saw (Add Blade Pricing)	1900.138	0.20 Mnth	/Mnth		/Mnth			500.00 /Mnth	100	150.00 /Mnth	30	130	130
Bobcat Skid Steer (85hp)- track (L)	1900.131	0.20 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	760	2,000.00 /Mnth	400	1,160	1,160
Air Compressor 185 cfm (66 HP) (L)	1900.010	0.20 Mnth	/Mnth		/Mnth			850.00 /Mnth	170	705.00 /Mnth	141	311	311
020- DWF Ex DAF Unit #1 and Pipe													
Demo Equipment - DAF Unit #1 (10' W x 50' Long x 8' Tall)	2220.140	1.00 ls	33.00 /mh	5,280	/ls			/ls		/ls		5,280	7,603
Demo SS Pipe 12"	2220.625	70.00 lf	33.00 /mh	1,155	/lf			/lf		/lf		1,155	1,663
Demo Pipe Valves 12"	2220.840	4.00 ea	33.00 /mh	528	/ea			/ea		/ea		528	760
Demo Equipment - Ass. Chem Feed Pumps	2220.140	2.00 Ea	33.00 /mh	792	/Ea			/Ea		/Ea		792	1,140
Demo Metal Stairs/Platforms	2220.490	300.00 sf	33.00 /mh	1,061	/sf			/sf		/sf		1,061	1,527
Demo Metal Stairs	2220.490	10.00 lf	33.00 /mh	330	/lf			/lf		/lf		330	475
Demo Metal Railings	2220.490	80.00 lf	33.00 /mh	66	/lf			/lf		/lf		66	95
Torch Set and Ocy/Acet.	1900.300	1.00 ls	/ls		2,500.00 /ls	2,500		1,500.00 /ls	1,500	/ls		4,000	4,000
Dump Fees Pick up	2220.980	160.00 tn	/tn		58.00 /tn	9,280		/tn		/tn		9,280	9,280
Dump Truck, End Dump	1900.210	48.00 Hrs	/Hrs		/Hrs		6,240	0.00 /Hrs	0	/Hrs		6,240	6,240
Grout Pipe in Floor 12"	2327.090	5.00 ea	33.00 /mh	1,320	50.00 /ea	250		/ea		/ea		1,570	2,151
Demo CS Pipe 2" Conduits and Panels	2220.620	1,200.00 lf	33.00 /mh	1,980	0.00 /lf	0		/lf		/lf		1,980	2,851
Air Compressor 185 cfm (66 HP) (L)	1900.010	0.75 Mnth	/Mnth		/Mnth			850.00 /Mnth	638	705.00 /Mnth	529	1,166	1,166
Cut N Break Saw (Add Blade Pricing)	1900.138	0.75 Mnth	/Mnth		/Mnth			500.00 /Mnth	375	150.00 /Mnth	113	488	488
Bobcat E85 Mini-Excavator with Breaker	1900.136	0.75 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	2,850	1,800.00 /Mnth	1,350	4,200	4,200
Bobcat Skid Steer (85hp)- track (L)	1900.131	0.75 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	2,850	2,000.00 /Mnth	1,500	4,350	4,350
Grind/Patch Slab	3350.130	750.00 sf	33.00 /mh	2,475	1.00 /sf	750		/sf		/sf		3,225	4,314
Demo Conc Footings Light Rebar	2220.083	18.00 cy	33.00 /mh	4,752	/cy			/cy		/cy		4,752	6,843
020- DWT Existing Flocc													
Demo Equipment - Ex Flocc	2220.140	1.00 ls	33.00 /mh	2,376	/ls			/ls		/ls		2,376	3,421
Demo PVC Pipe 12"	2220.615	30.00 lf	33.00 /mh	495	/lf			/lf		/lf		495	713
Demo Pipe Valves 12"	2220.840	4.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Dumpster	1714.100	1.00 ea	/ea		750.00 /ea	750		/ea		/ea		750	750
020- DWT Ex DAF Unit #2													
Demo Equipment - Ex DAF Unit #2	2220.140	1.00 ls	33.00 /mh	1,980	0.00 /ls	0		/ls		/ls		1,980	2,851
Dump Truck, End Dump	1900.210	16.00 Hrs	/Hrs		/Hrs		2,080	0.00 /Hrs	0	/Hrs		2,080	2,080
Dump Fees Pick up	2220.980	50.00 tn	/tn		58.00 /tn	2,900		/tn		/tn		2,900	2,900
Demo PVC Pipe 12"	2220.615	60.00 lf	33.00 /mh	495	/lf			/lf		/lf		495	713
Demo Pipe Valves 12"	2220.840	6.00 ea	33.00 /mh	396	/ea			/ea		/ea		396	570
Demo CS Pipe 2" Conduit and Panels	2220.620	750.00 lf	33.00 /mh	1,238	0.00 /lf	0		/lf		/lf		1,238	1,782
Demo Conc Housekeeping Pads	2220.083	25.00 cy	33.00 /mh	6,600	/cy			/cy		/cy		6,600	9,504
Air Compressor 185 cfm (66 HP) (L)	1900.010	0.20 Mnth	/Mnth		/Mnth			850.00 /Mnth	170	705.00 /Mnth	141	311	311
90 lb Jack Hammer	1900.138	0.20 Mnth	/Mnth		/Mnth			500.00 /Mnth	100	100.00 /Mnth	20	120	120
Cut N Break Saw (Add Blade Pricing)	1900.138	0.20 Mnth	/Mnth		/Mnth			500.00 /Mnth	100	150.00 /Mnth	30	130	130
Bobcat Skid Steer (85hp)- track (L)	1900.131	0.20 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	760	2,000.00 /Mnth	400	1,160	1,160
Grind/Patch Slab	3350.130	500.00 sf	33.00 /mh	1,650	1.00 /sf	500		/sf		/sf		2,150	2,876
025430 Lagoon Decommissioning													
01 CIV Civil													
Lagoon Lagoon													
0238-2 Lagoon Decommission Allowance													
Lagoon Decommission Allowance	2240.050	1.00 ls	/ls		/ls		1,510,000	/ls		/ls		1,510,000	1,510,000
Mechanical Foreman	1000.100	8.00 wk	1,600.00 /wk	12,800	/wk			/wk		/wk		12,800	18,432
Pickup	1900.210	2.00 Mnth	/Mnth		/Mnth			1,000.00 /Mnth	2,000	1,065.00 /Mnth	2,130	4,130	4,130
Site Excavation ramps into lagoons	2303.100	1,000.00 cy	33.00 /mh	1,650	/cy			/cy		/cy		1,650	2,376
Maintian roads during haul off	2300.600	1.00 ls	33.00 /mh	1,320	/ls	2,500		/ls		/ls		3,820	4,401
Komatsu PC300 Excavator (232 HP) (L)	1900.136	2.00 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	18,400	3,500.00 /Mnth	7,000	25,400	25,400
John Deere 624 Loader (172 HP) (M)	1900.132	2.00 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	12,000	3,000.00 /Mnth	6,000	18,000	18,000
033000 Cast In Place Concrete													
00 GEN General													
Concrete Concrete													
01 -100 Concrete General													
Concrete Foreman	1000.100	35.00 wk	1,600.00 /wk	56,000	/wk			/wk		/wk		56,000	80,640
Pickup	1900.210	8.00 Mnth	/Mnth		/Mnth			1,000.00 /Mnth	8,000	650.00 /Mnth	5,200	13,200	13,200
Formwork Freight hand set and shoring	3150.200	24.00 ld	/ld		/ld			/ld		/ld	15,600	15,600	15,600
Concrete Formwork Design Fees	1500.100	1.00 ls	/ls		/ls		19,600	/ls		/ls		19,600	19,600
Formwork Freight Gang Form	3150.200	16.00 ld	/ld		/ld			/ld		/ld	51,200	51,200	51,200
014- Winter Conditions for Concrete													
Winter Conditions	1572.100	8.00 Mnth	/Mnth		5,000.00 /Mnth	40,000		/Mnth		/Mnth		40,000	40,000
Labor Winter Conditions	1572.100	8.00 Mnth	33.00 /mh	105,600	0.00 /Mnth	0		/Mnth		/Mnth		105,600	152,064
2012 Allmand Self Cont. 1M BTU Heater(In @ 4.0 gal/hr w/ 2 burners+1 gal/hr Gen running *3 24/7) (L)	1900.400	10.00 Mnth	/Mnth		350.00 /Mnth	3,500		3,800.00 /Mnth	38,000	6,000.00 /Mnth	60,000	101,500	101,500
Ground Heater E2200 (In @ 1.1 gal/hr *3 24/7) (L) ((OWNED ONLY-50% DISCOUNTED RATE)	1900.400	4.00 Mnth	/Mnth		/Mnth			7,000.00 /Mnth	28,000	3,800.00 /Mnth	15,200	43,200	43,200

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
0380- Concrete Equipment for Project													
Razorback Screed	3995.100	1.00 mo	/mo		/mo			1,200.00 /mo	1,200	/mo		1,200	1,200
Concrete Bucket	3995.100	27.00 mo	/mo		/mo			250.00 /mo	6,750	/mo		6,750	6,750
Generators	3995.100	72.00 mo	/mo		/mo			400.00 /mo	28,800	/mo		28,800	28,800
Vibrators	3995.100	72.00 mo	/mo		/mo			400.00 /mo	28,800	/mo		28,800	28,800
Grove RT750, 50 ton (190 HP) (L)	1900.100	12.00 mnth	7,800.00 /mnth	93,600	450.00 /mnth	5,400		9,500.00 /mnth	114,000	2,250.00 /mnth	27,000	240,000	281,184
Crane Mob by Sub	1900.100	1.00 ea	/ea		/ea		2,500	/ea		/ea		2,500	2,500
Kobelco CK1100G-2 - 110 Ton (332 HP) (L)	1900.100	18.00 mnth	5,629.00 /mnth	101,322	550.00 /mnth	9,900		14,000.00 /mnth	252,000	2,500.00 /mnth	45,000	408,222	452,804
Crane Mob by Sub	1900.100	1.00 ea	/ea		/ea		10,000	/ea		/ea		10,000	10,000
Air Compressor 185 cfm (66 HP) (L)	1900.010	24.00 Mnth	/Mnth		/Mnth			850.00 /Mnth	20,400	705.00 /Mnth	16,920	37,320	37,320
Welding Machine 300 amp (33 HP) (L)	1900.012	4.00 Mnth	/Mnth		/Mnth			350.00 /Mnth	1,400	550.00 /Mnth	2,200	3,600	3,600
Genie 32' Scissor Lift (Requires Power Source)	1900.300	36.00 Mnth	/Mnth		/Mnth			950.00 /Mnth	34,200	100.00 /Mnth	3,600	37,800	37,800
RT Telescopic Forklift (12,000 lb) (130 HP) (L)	1900.300	11.00 Mnth	/Mnth		/Mnth			4,200.00 /Mnth	46,200	1,500.00 /Mnth	16,500	62,700	62,700
Stair Tower and Stair Access	3995.100	18.00 mnth	33.00 /mh	2,376	1,500.00 /mnth	27,000		/mnth		/mnth		29,376	30,421
0385- Reinforcement													
Rebar Supply	3200.980	1.00 ls	/ls		1,566,172.00 /ls	1,566,172		/ls		/ls		1,566,172	1,566,172
Rebar Install (sub)	3200.980	1.00 ls	/ls		/ls		0	/ls		/ls			
Rebar Chairs	3200.980	11,000.00 ea	/ea		0.45 /ea	4,950		/ea		/ea		4,950	4,950
Rebar Bricks	3200.980	8,000.00 ea	/ea		0.65 /ea	5,200		/ea		/ea		5,200	5,200
Rebar Acc: wire and acc	3200.980	1.00 ls	/ls		5,000.00 /ls	5,000		/ls		/ls		5,000	5,000
Deck and Walk Bolster	3200.980	400.00 lf	/lf		0.45 /lf	180		/lf		/lf		180	180
Rebar Contingency	3200.980	1.00 ls	/ls		0.00 /ton	0		/ls		/ls			
01 CIV Civil													
Concrete Concrete													
0300- Curb and Gutter at admin sidewalk													
Concrete Curb and Gutter Formwork - Straight	3100.120	128.00 lf	33.00 /mh	2,112	5.00 /lf	640		/lf		/lf		2,752	3,681
Concrete Curb and Gutter Formwork - Radius	3100.120	8.00 lf	33.00 /mh	132	5.00 /lf	40		/lf		/lf		172	230
4500 psi Concrete	3310.100	15.11 cy	/cy		198.00 /cy	3,201		/cy		/cy		3,201	3,201
Truck Place Curbs	3310.290	15.11 cy	33.00 /mh	1,334	/cy			/cy		/cy		1,334	1,921
Concrete Curb and Gutter - Finish	3350.125	408.00 sf	33.00 /mh	673	/sf			/sf		/sf		673	969
Place Road Base Under Curb	2305.300	30.22 cy	33.00 /mh	997	0.00 /cy	0		/cy		/cy		997	1,436
Import Gravel Base	2305.250	30.22 cy	/cy		25.00 /ton	1,398		/cy		/cy		1,398	1,398
Oil Curb and Gutter Forms	3100.310	544.00 sf	33.00 /mh	18	0.03 /sf	16		/sf		/sf		34	42
Curb and Gutter Excavation and Backfill	2303.100	136.00 lf	33.00 /mh	449	0.00 /lf	0		/lf		/lf		449	646
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.15 Mnth	/Mnth		/Mnth		2,500.00 /Mnth		375	500.00 /Mnth	75	450	450
Bobcat Skid Steer (85hp)- track (L)	1900.131	0.50 Mnth	/Mnth		/Mnth		3,800.00 /Mnth		1,900	2,000.00 /Mnth	1,000	2,900	2,900
0302- Transformer Pad Site Civil													
4500 psi Concrete	3310.100	3.70 cy	/cy		198.00 /cy	785		/cy		/cy		785	785
Truck Place Slab on Grade	3310.230	3.70 cy	33.00 /mh	196	/cy			/cy		/cy		196	282
Formwork S.O.G. Edge Form < 1'	3100.120	40.00 sf	33.00 /mh	462	2.00 /sf	84		/sf		/sf		546	749
Finegrade Below Concrete	3150.650	100.00 sf	33.00 /mh	46	/sf			/sf		/sf		46	67
Finish- Hard Trowel	3350.110	100.00 sf	33.00 /mh	46	/sf			/sf		/sf		46	67
Liquid Curing Compounds	3390.170	100.00 sf	33.00 /mh	7	0.06 /sf	6		/sf		/sf		13	16
Blockouts in Concrete	3150.194	16.00 sf	33.00 /mh	185	2.00 /sf	32		/sf		/sf		217	298
Road Base Below Concrete	2305.300	3.70 cy	33.00 /mh	122	25.00 /ton	183		/cy		/cy		306	359
Oil SOG Form	3100.310	40.00 sf	/sf		0.02 /sf	1		/sf		/sf		1	1
Nails and Hardware	3150.200	40.00 sf	/sf		0.04 /sf	2		/sf		/sf		2	2
Dimension Lumber	3150.200	40.00 sf	/sf		0.50 /sf	20		/sf		/sf		20	20
SOG Rebar	3210.104	0.46 tn	33.00 /mh	458	1,600.00 /tn	778		/tn		/tn		1,236	1,438
0302- Generator Slab Sit Civil													
4500 psi Concrete	3310.100	58.33 cy	/cy		198.00 /cy	12,358		/cy		/cy		12,358	12,358
Slab Placement Count	3310.360	1.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Pump Place Slab on Grade	3310.230	58.33 cy	33.00 /mh	1,751	/cy			/cy		/cy	35.00	2,185	3,935
Formwork S.O.G. Edge Form > 1'	3100.120	201.00 sf	33.00 /mh	2,322	2.00 /sf	422		/sf		/sf		2,744	3,765
Finegrade Below Concrete	3150.650	1,050.00 sf	33.00 /mh	485	/sf			/sf		/sf		485	699
Finish- Hard Trowel	3350.110	1,050.00 sf	33.00 /mh	485	/sf			/sf		/sf		485	699
Liquid Curing Compounds	3390.170	1,050.00 sf	33.00 /mh	69	0.06 /sf	63		/sf		/sf		132	163
Blockouts in Concrete	3150.194	48.00 sf	33.00 /mh	554	2.00 /sf	96		/sf		/sf		650	894
Road Base Below Concrete	2305.300	38.89 cy	33.00 /mh	1,283	25.00 /ton	1,925		/cy		/cy		3,208	3,773
Oil SOG Form	3100.310	201.00 sf	/sf		0.02 /sf	4		/sf		/sf		4	4
Nails and Hardware	3150.200	201.00 sf	/sf		0.04 /sf	8		/sf		/sf		8	8
Dimension Lumber	3150.200	201.00 sf	/sf		0.50 /sf	101		/sf		/sf		101	101
SOG Rebar	3210.104	5.83 tn	33.00 /mh	5,772	1,600.00 /tn	9,795		/tn		/tn		15,567	18,106
0302- MCC Pad Site Civil													
4500 psi Concrete	3310.100	11.56 cy	/cy		198.00 /cy	2,448		/cy		/cy		2,448	2,448
Slab Placement Count	3310.360	1.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Pump Place Slab on Grade	3310.230	11.56 cy	33.00 /mh	490	/cy			/cy		/cy	35.00	433	922
Formwork S.O.G. Edge Form < 1'	3100.120	76.00 sf	33.00 /mh	878	2.00 /sf	160		/sf		/sf		1,037	1,424
Finegrade Below Concrete	3150.650	312.00 sf	33.00 /mh	144	/sf			/sf		/sf		144	208
Finish- Hard Trowel	3350.110	312.00 sf	33.00 /mh	144	/sf			/sf		/sf		144	208
Liquid Curing Compounds	3390.170	312.00 sf	33.00 /mh	21	0.06 /sf	19		/sf		/sf		39	48
Blockouts in Concrete	3150.194	24.00 sf	33.00 /mh	277	2.00 /sf	48		/sf		/sf		325	447
Road Base Below Concrete	2305.300	11.56 cy	33.00 /mh	381	25.00 /ton	572		/cy		/cy		953	1,121
Oil SOG Form	3100.310	76.00 sf	/sf		0.02 /sf	2		/sf		/sf		2	2
Nails and Hardware	3150.200	76.00 sf	/sf		0.04 /sf	3		/sf		/sf		3	3
Dimension Lumber	3150.200	76.00 sf	/sf		0.50 /sf	38		/sf		/sf		38	38
SOG Rebar	3210.104	1.44 tn	33.00 /mh	1,430	1,600.00 /tn	2,426		/tn		/tn		3,855	4,484
0302- Sidewalks Secondary Process Basins													
4500 psi Concrete	3310.100	30.77 cy	/cy		198.00 /cy	6,519		/cy		/cy		6,519	6,519
Slab Placement Count	3310.360	2.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Pump Place Slab on Grade	3310.230	30.77 cy	33.00 /mh	1,304	/cy			/cy		/cy	35.00	1,152	2,456
Formwork S.O.G. Edge Form < 1'	3100.120	391.28 sf	33.00 /mh	4,519	2.00 /sf	822		/sf		/sf		5,341	7,329

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
0302- Sidewalks Secondary Process Basins													
Formwork S.O.G. Const Joints < 1'	3100.120	10.72 sf	33.00 /mh	163	2.00 /sf	23		/sf		/sf		185	257
CJ Prep Slab	3350.170	10.72 sf	33.00 /mh	9	0.15 /sf	2		/sf		/sf		10	14
Finegrade Below Concrete	3150.650	1,240.00 sf	33.00 /mh	573	/sf			/sf		/sf		573	825
Finish- Hard Trowel	3350.110	1,240.00 sf	33.00 /mh	573	/sf			/sf		/sf		573	825
Liquid Curing Compounds	3390.170	1,240.00 sf	33.00 /mh	82	0.06 /sf	74		/sf		/sf		156	192
Road Base Below Concrete	2305.300	45.93 cy	33.00 /mh	1,516	25.00 /ton	2,273		/cy		/cy		3,789	4,456
Expansion Joint	3150.720	187.60 sf	33.00 /mh	619	12.00 /sf	2,364		/sf		/sf		2,983	3,255
Expansion Joint Sealant	3150.720	280.00 lf	33.00 /mh	924	2.00 /lf	588		/lf		/lf		1,512	1,919
Oil SOG Form	3100.310	402.00 sf	/sf		0.02 /sf	8		/sf		/sf		8	8
Nails and Hardware	3150.200	391.28 sf	/sf		0.04 /sf	16		/sf		/sf		16	16
Dimension Lumber	3150.200	391.28 sf	/sf		0.50 /sf	196		/sf		/sf		196	196
Saw Cut S-O-G	3350.160	346.00 lf	33.00 /mh	571	0.50 /lf	173		0.50 /lf	173	/lf		917	1,168
SOG Rebar	3210.104	3.08 tn	33.00 /mh	3,046	1,600.00 /tn	5,170		/tn		/tn		8,216	9,556
0302- Outfall Pipe Concrete slab at 90 bend													
4500 psi Concrete	3310.100	14.22 cy	/cy		198.00 /cy	3,013		/cy		/cy		3,013	3,013
Slab Placement Count	3310.360	1.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Pump Place Slab on Grade	3310.230	14.22 cy	33.00 /mh	502	/cy			/cy		35.00 /cy	533	1,035	1,256
Formwork S.O.G. Edge Form > 1'	3100.120	192.00 sf	33.00 /mh	2,218	2.00 /sf	403		/sf		/sf		2,621	3,597
Finegrade Below Concrete	3150.650	64.00 sf	33.00 /mh	30	/sf			/sf		/sf		30	43
Finish- Hard Trowel	3350.110	64.00 sf	33.00 /mh	30	/sf			/sf		/sf		30	43
Liquid Curing Compounds	3390.170	64.00 sf	33.00 /mh	4	0.06 /sf	4		/sf		/sf		8	10
Road Base Below Concrete	2305.300	2.37 cy	33.00 /mh	78	25.00 /ton	117		/cy		/cy		196	230
Oil SOG Form	3100.310	192.00 sf	/sf		0.02 /sf	4		/sf		/sf		4	4
Nails and Hardware	3150.200	192.00 sf	/sf		0.04 /sf	8		/sf		/sf		8	8
Dimension Lumber	3150.200	192.00 sf	/sf		0.50 /sf	96		/sf		/sf		96	96
SOG Rebar	3210.104	1.78 tn	33.00 /mh	1,760	1,600.00 /tn	2,987		/tn		/tn		4,747	5,522
0302- Sidewalks Between Slabs at headworks													
4500 psi Concrete	3310.100	9.93 cy	/cy		198.00 /cy	2,103		/cy		/cy		2,103	2,103
Truck Place Slab on Grade	3310.230	9.93 cy	33.00 /mh	421	/cy			/cy		/cy		421	606
Formwork S.O.G. Edge Form < 1'	3100.120	139.36 sf	33.00 /mh	1,610	2.00 /sf	293		/sf		/sf		1,902	2,611
Finegrade Below Concrete	3150.650	400.00 sf	33.00 /mh	185	/sf			/sf		/sf		185	266
Finish- Hard Trowel	3350.110	400.00 sf	33.00 /mh	185	/sf			/sf		/sf		185	266
Liquid Curing Compounds	3390.170	400.00 sf	33.00 /mh	26	0.06 /sf	24		/sf		/sf		50	62
Road Base Below Concrete	2305.300	14.82 cy	33.00 /mh	489	25.00 /ton	733		/cy		/cy		1,222	1,437
Expansion Joint	3150.720	87.10 sf	33.00 /mh	287	12.00 /sf	1,097		/sf		/sf		1,385	1,511
Expansion Joint Sealant	3150.720	130.00 lf	33.00 /mh	429	2.00 /lf	273		/lf		/lf		702	891
Oil SOG Form	3100.310	139.36 sf	/sf		0.02 /sf	3		/sf		/sf		3	3
Nails and Hardware	3150.200	139.36 sf	/sf		0.04 /sf	6		/sf		/sf		6	6
Dimension Lumber	3150.200	139.36 sf	/sf		0.50 /sf	70		/sf		/sf		70	70
Saw Cut S-O-G	3350.160	60.00 lf	33.00 /mh	99	0.50 /lf	30		0.50 /lf	30	/lf		159	203
SOG Rebar	3210.104	0.99 tn	33.00 /mh	983	1,600.00 /tn	1,669		/tn		/tn		2,652	3,084
0302- Slab under partial Flume FRP manhole													
4500 psi Concrete	3310.100	3.00 cy	/cy		198.00 /cy	636		/cy		/cy		636	636
Slab Placement Count	3310.360	1.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Crane Place Slab on Grade	3310.230	3.00 cy	33.00 /mh	212	/cy			/cy		/cy		212	305
Formwork S.O.G. Edge Form < 1'	3100.120	32.00 sf	33.00 /mh	211	2.00 /sf	67		/sf		/sf		278	371
Finegrade Below Concrete	3150.650	64.00 sf	33.00 /mh	30	/sf			/sf		/sf		30	43
Finish- Hard Trowel	3350.110	64.00 sf	33.00 /mh	30	/sf			/sf		/sf		30	43
Crushed Rock Below Concrete	2305.300	2.37 cy	33.00 /mh	31	36.00 /ton	160		/cy		/cy		190	203
Oil SOG Form	3100.310	32.00 sf	/sf		0.02 /sf	1		/sf		/sf		1	1
Nails and Hardware	3150.200	32.00 sf	/sf		0.04 /sf	1		/sf		/sf		1	1
Dimension Lumber	3150.200	32.00 sf	/sf		0.50 /sf	16		/sf		/sf		16	16
SOG Rebar	3210.104	0.24 tn	33.00 /mh	235	1,600.00 /tn	398		/tn		/tn		633	736
0302-A Admin Building Parking Sidewalk													
4500 psi Concrete	3310.100	8.89 cy	/cy		198.00 /cy	1,883		/cy		/cy		1,883	1,883
Truck Place Slab on Grade	3310.230	8.89 cy	33.00 /mh	471	/cy			/cy		/cy		471	678
Formwork S.O.G. Edge Form < 1'	3100.120	124.00 sf	33.00 /mh	1,432	2.00 /sf	260		/sf		/sf		1,693	2,323
Formwork S.O.G. Const Joints < 1'	3100.120	6.00 sf	33.00 /mh	91	2.00 /sf	13		/sf		/sf		104	144
CJ Prep Slab	3350.170	6.00 sf	33.00 /mh	5	0.15 /sf	1		/sf		/sf		6	8
Finegrade Below Concrete	3150.650	480.00 sf	33.00 /mh	222	/sf			/sf		/sf		222	319
Finish- Hard Trowel	3350.110	480.00 sf	33.00 /mh	222	/sf			/sf		/sf		222	319
Liquid Curing Compounds	3390.170	480.00 sf	33.00 /mh	32	0.06 /sf	29		/sf		/sf		60	74
Road Base Below Concrete	2305.300	17.78 cy	33.00 /mh	587	25.00 /ton	880		/cy		/cy		1,467	1,725
Expansion Joint	3150.720	60.00 sf	33.00 /mh	198	12.00 /sf	756		/sf		/sf		954	1,041
Expansion Joint Sealant	3150.720	120.00 lf	33.00 /mh	396	2.00 /lf	252		/lf		/lf		648	822
Oil SOG Form	3100.310	130.00 sf	/sf		0.02 /sf	3		/sf		/sf		3	3
Nails and Hardware	3150.200	124.00 sf	/sf		0.04 /sf	5		/sf		/sf		5	5
Saw Cut S-O-G	3350.160	120.00 lf	33.00 /mh	198	0.50 /lf	60		0.50 /lf	60	/lf		318	405
SOG Rebar	3210.104	0.89 tn	33.00 /mh	880	1,600.00 /tn	1,493		/tn		/tn		2,373	2,760
0302-B Manhole FIII Concrete													
4500 psi Concrete	3310.100	5.00 cy	/cy		198.00 /cy	1,059		/cy		/cy		1,059	1,059
Truck Place Slab on Grade	3310.230	5.00 cy	33.00 /mh	706	/cy			/cy		/cy		706	1,017
Formwork S.O.G. Edge Form < 1'	3100.120	100.00 sf	33.00 /mh	1,155	2.00 /sf	210		/sf		/sf		1,365	1,873
Finish- Hard Trowel	3350.110	125.00 sf	33.00 /mh	58	/sf			/sf		/sf		58	83
Liquid Curing Compounds	3390.170	125.00 sf	33.00 /mh	8	0.06 /sf	8		/sf		/sf		16	19
Oil SOG Form	3100.310	100.00 sf	/sf		0.02 /sf	2		/sf		/sf		2	2
Nails and Hardware	3150.200	100.00 sf	/sf		0.04 /sf	4		/sf		/sf		4	4
Dimension Lumber	3150.200	100.00 sf	/sf		0.50 /sf	50		/sf		/sf		50	50
CJ Prep Slab	3350.170	125.00 sf	33.00 /mh	103	0.15 /sf	19		/sf		/sf		122	167
09 IPS Influent Pump Station													
Concrete Concrete													

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
019-100 Water Test Basin													
Water Test Basins	3995.200	1.00 ea	33.00 /mh	1,056	/ea			/ea		/ea		1,056	1,521
Test Water	3995.200	1.00 /s	/s		/s			/s		/s			
Pumps and hoses	3995.200	1.00 /s	/s		1,000.00 /s	1,000		/s		/s		1,000	1,000
Temporary Bulkheads	3995.200	1.00 /s	33.00 /mh	132	250.00 /s	250		/s		/s		382	440
Urethane Injection System	3995.200	1.00 /s	33.00 /mh	2,640	3,500.00 /s	3,500		750.00 /s	750	/s		6,890	8,052
0302- Influent Pump Station Base Slab (09S201)													
4500 psi Concrete	3310.100	20.00 cy	/cy		198.00 /cy	4,237		/cy		/cy		4,237	4,237
Slab Placement Count	3310.360	1.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Pump Place Slab on Grade	3310.230	20.00 cy	33.00 /mh	1,059	/cy			/cy		35.00 /cy	749	1,808	2,274
Formwork S.O.G. Edge Form > 1'	3100.120	125.86 sf	33.00 /mh	1,744	2.00 /sf	264		/sf		/sf		2,009	2,776
Finegrade Below Concrete	3150.650	341.63 sf	33.00 /mh	158	/sf			/sf		/sf		158	227
Finish- Hard Trowel	3350.110	341.63 sf	33.00 /mh	158	/sf			/sf		/sf		158	227
Blockouts in Concrete	3150.194	21.00 sf	33.00 /mh	243	2.00 /sf	42		/sf		/sf		285	391
Waterstop 6" Flat	3510.610	72.00 lf	33.00 /mh	238	6.00 /lf	454		/lf		/lf		691	796
Oil SOG Form	3100.310	125.86 sf	/sf		0.02 /sf	3		/sf		/sf		3	3
Nails and Hardware	3150.200	125.86 sf	/sf		0.04 /sf	5		/sf		/sf		5	5
Dimension Lumber	3150.200	125.86 sf	/sf		0.50 /sf	63		/sf		/sf		63	63
Waterstop Fitting - Vertical Tee	3510.610	2.00 ea	33.00 /mh	66	71.00 /ea	142		/ea		/ea		208	237
Waterstop Fitting - Flat L	3510.610	4.00 ea	33.00 /mh	132	49.00 /ea	196		/ea		/ea		328	386
4500 psi Concrete Mud mat below sump	3310.100	1.00 cy	/cy		198.00 /cy	212		/cy		/cy		212	212
Pipe Tie Downs at sump	3150.200	2.00 ea	33.00 /mh	330	100.00 /ea	200		/ea		/ea		530	675
XYPEX Admix	3310.100	20.00 cy	/cy		90.00 /cy	1,926		/cy		/cy		1,926	1,926
0302- Influent Pump Station Equipment Pump Pads (09S202)													
4500 psi Concrete	3310.100	2.00 cy	/cy		198.00 /cy	424		/cy		/cy		424	424
Crane Place Slab on Grade	3310.230	2.00 cy	33.00 /mh	141	/cy			/cy		/cy		141	203
Formwork S.O.G. Edge Form < 1'	3100.120	58.68 sf	33.00 /mh	678	2.00 /sf	123		/sf		/sf		801	1,099
Finish- Hard Trowel	3350.110	43.42 sf	33.00 /mh	20	/sf			/sf		/sf		20	29
Blockouts in Concrete	3150.194	24.00 sf	33.00 /mh	277	2.00 /sf	48		/sf		/sf		325	447
Oil SOG Form	3100.310	58.68 sf	/sf		0.02 /sf	1		/sf		/sf		1	1
Nails and Hardware	3150.200	58.68 sf	/sf		0.04 /sf	2		/sf		/sf		2	2
Dimension Lumber	3150.200	58.68 sf	/sf		0.50 /sf	29		/sf		/sf		29	29
Drill and Epoxy #4	3210.101	52.00 ea	33.00 /mh	429	5.00 /ea	273		/ea		/ea		702	891
XYPEX Admix	3310.100	2.00 cy	/cy		90.00 /cy	193		/cy		/cy		193	193
0302- Influent Pump Station Sidewalk 5' Around PS (09S401)													
4500 psi Concrete	3310.100	8.40 cy	/cy		198.00 /cy	1,780		/cy		/cy		1,780	1,780
Slab Placement Count	3310.360	1.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Crane Place Slab on Grade	3310.230	8.40 cy	33.00 /mh	445	/cy			/cy		/cy		445	641
Formwork S.O.G. Edge Form < 1'	3100.120	96.12 sf	33.00 /mh	1,110	2.00 /sf	202		/sf		/sf		1,312	1,801
Finegrade Below Concrete	3150.650	420.00 sf	33.00 /mh	194	/sf			/sf		/sf		194	279
Finish- Hard Trowel	3350.110	420.00 sf	33.00 /mh	194	/sf			/sf		/sf		194	279
Liquid Curing Compounds	3390.170	420.00 sf	33.00 /mh	28	0.06 /sf	25		/sf		/sf		53	65
Road Base Below Concrete	2305.300	15.56 cy	33.00 /mh	513	25.00 /ton	770		/cy		/cy		1,283	1,509
Expansion Joint	3150.720	45.36 sf	33.00 /mh	150	12.00 /sf	572		/sf		/sf		721	787
Expansion Joint Sealant	3150.720	84.00 lf	33.00 /mh	277	2.00 /lf	176		/lf		/lf		454	576
Oil SOG Form	3100.310	96.12 sf	/sf		0.02 /sf	2		/sf		/sf		2	2
Nails and Hardware	3150.200	96.12 sf	/sf		0.04 /sf	4		/sf		/sf		4	4
Dimension Lumber	3150.200	96.12 sf	/sf		0.50 /sf	48		/sf		/sf		48	48
Saw Cut S-O-G	3350.160	84.00 lf	33.00 /mh	139	0.50 /lf	42		0.50 /lf	42	/lf		223	284
SOG Rebar	3210.104	0.84 tn	33.00 /mh	1,109	1,600.00 /tn	1,411		/tn		/tn		2,520	3,008
0302-B Influent Grout Topping (09S401)													
CJ Prep Slab	3350.170	252.00 sf	33.00 /mh	582	0.15 /sf	38		/sf		/sf		620	876
Acrylic Bonding Agent	3150.200	252.00 sf	33.00 /mh	416	1.00 /sf	252		/sf		/sf		668	851
Grout topping (Non Shrink)	3150.200	126.00 cf	33.00 /mh	1,040	0.00 /cf	0		/cf		/cf		1,040	1,497
Non Shrink Grout	3601.100	126.00 cf	/cf		60.00 /cf	7,560		/cf		/cf		7,560	7,560
Form Special Platform over grout topping	3150.200	1.00 /s	33.00 /mh	792	250.00 /sf	250		/s		/s		1,042	1,390
0303- Influent Pump Station Walls (09S401)													
Pump Place Walls	3310.260	54.00 cy	33.00 /mh	2,097	/cy			/cy		35.00 /cy	2,022	4,120	5,043
4500 psi Concrete	3310.100	54.00 cy	/cy		198.00 /cy	11,440		/cy		/cy		11,440	11,440
Wall Placement Count	3310.360	2.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Gang Form System 12-16'	3100.180	1,924.56 sf	33.00 /mh	9,527	2.75 /sf	5,557		/sf		/sf		15,084	19,275
Wall Bulkhead Forms	3150.192	43.74 sf	33.00 /mh	664	2.00 /sf	92		/sf		/sf		756	1,048
CJ Prep Walls	3350.170	142.74 sf	33.00 /mh	118	0.15 /sf	21		/sf		/sf		139	191
Finish- Top of Wall	3350.110	99.00 sf	33.00 /mh	46	/sf			/sf		/sf		46	66
Liquid Curing Walls	3390.170	2,023.56 sf	33.00 /mh	67	0.06 /sf	121		/sf		/sf		188	218
Grind/Patch Walls	3350.130	1,924.56 sf	33.00 /mh	762	0.07 /sf	135		/sf		/sf		897	1,232
Blockouts in Concrete	3150.194	16.00 sf	33.00 /mh	185	2.00 /sf	32		/sf		/sf		217	298
Waterstop 6" Flat	3510.610	29.16 lf	33.00 /mh	96	6.00 /lf	184		/lf		/lf		280	322
Chamfer 3/4"	3150.625	80.00 lf	33.00 /mh	132	0.25 /lf	21		/lf		/lf		153	211
Rub Walls	3350.140	1,056.00 sf	33.00 /mh	1,742	0.25 /sf	264		/sf		/sf		2,006	2,773
Oil Wall Forms	3100.310	1,924.56 sf	/sf		0.02 /sf	38		/sf		/sf		38	38
Nails and Hardware	3150.200	1,924.56 sf	/sf		0.04 /sf	77		/sf		/sf		77	77
Form Ties 18"	3150.632	481.14 ea	/ea		2.90 /ea	1,395		/ea		/ea		1,395	1,395
Dimension Lumber	3150.200	1,924.56 sf	/sf		0.50 /sf	962		/sf		/sf		962	962
Rebar Templates	3200.980	66.00 lf	33.00 /mh	109	0.50 /lf	33		/lf		/lf		142	190
XYPEX Admix	3310.100	54.00 cy	/cy		90.00 /cy	5,200		/cy		/cy		5,200	5,200
0303- Influent Pump Station One Sided wall 8' tall (09S402)													
Pump Place Walls	3310.260	8.00 cy	33.00 /mh	353	/cy			/cy		35.00 /cy	300	653	808
4500 psi Concrete	3310.100	8.00 cy	/cy		198.00 /cy	1,695		/cy		/cy		1,695	1,695
Wall Placement Count	3310.360	1.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
One Sided Wall Forms	3100.184	64.00 sf	33.00 /mh	1,056	2.00 /sf	134		/sf		/sf		1,190	1,655
Wall Bulkhead Forms	3150.192	24.00 sf	33.00 /mh	364	2.00 /sf	50		/sf		/sf		415	575

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
0303- Influent Pump Station One Sided wall 8' tall (09S402)													
CJ Prep Walls (roughen slab)	3350.170	88.00 sf	33.00 /mh	73	0.15 /sf	13		/sf		/sf		86	118
Finish- Top of Wall	3350.110	24.00 sf	33.00 /mh	11	/sf			/sf		/sf		11	16
Liquid Curing Walls	3390.170	152.00 sf	33.00 /mh	5	0.06 /sf	9		/sf		/sf		14	16
Grind/Patch Walls	3350.130	128.00 sf	33.00 /mh	51	0.07 /sf	9		/sf		/sf		60	82
Rub Walls	3350.140	40.00 sf	33.00 /mh	66	0.25 /sf	10		/sf		/sf		76	105
Oil Wall Forms	3100.310	128.00 sf	/sf		0.02 /sf	3		/sf		/sf		3	3
Nails and Hardware	3150.200	128.00 sf	/sf		0.04 /sf	5		/sf		/sf		5	5
Form Ties 36"	3150.632	32.00 ea	/ea		3.50 /ea	112		/ea		/ea		112	112
Dimension Lumber	3150.200	128.00 sf	/sf		0.50 /sf	64		/sf		/sf		64	64
Rebar Templates	3200.980	8.00 lf	33.00 /mh	13	0.50 /lf	4		/lf		/lf		17	23
Drill and Epoxy ties	3210.101	32.00 ea	33.00 /mh	264	5.00 /ea	168		/ea		/ea		432	548
Drill and Epoxy #4	3210.101	35.00 ea	33.00 /mh	289	5.00 /ea	184		/ea		/ea		473	600
XYPEX Admix	3310.100	8.00 cy	/cy		90.00 /cy	770		/cy		/cy		770	770
0303- One Sided Step Walls below influent pipe (09S401)													
Crane Place Walls	3310.260	2.00 cy	33.00 /mh	88	/cy			/cy		/cy		88	127
4500 psi Concrete	3310.100	2.00 cy	/cy		198.00 /cy	424		/cy		/cy		424	424
Wall Placement Count	3310.360	1.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Job Built with Plyform 4-8'	3100.180	24.00 sf	33.00 /mh	396	2.00 /sf	50		/sf		/sf		446	621
Wall Bulkhead Forms	3150.192	12.00 sf	33.00 /mh	182	2.00 /sf	25		/sf		/sf		207	288
CJ Prep Walls	3350.170	24.00 sf	33.00 /mh	20	0.15 /sf	4		/sf		/sf		23	32
Finish- Top of Wall	3350.110	9.00 sf	33.00 /mh	4	/sf			/sf		/sf		4	6
Liquid Curing Walls	3390.170	33.48 sf	33.00 /mh	1	0.06 /sf	2		/sf		/sf		3	4
Grind/Patch Walls	3350.130	24.48 sf	33.00 /mh	10	0.07 /sf	2		/sf		/sf		11	16
Blockouts in Concrete	3150.194	12.00 sf	33.00 /mh	139	2.00 /sf	24		/sf		/sf		163	224
Oil Wall Forms	3100.310	24.48 sf	/sf		0.02 /sf	0		/sf		/sf		0	0
Nails and Hardware	3150.200	24.48 sf	/sf		0.04 /sf	1		/sf		/sf		1	1
Form Ties 36"	3150.632	6.12 ea	/ea		3.50 /ea	21		/ea		/ea		21	21
Dimension Lumber	3150.200	24.48 sf	/sf		0.50 /sf	12		/sf		/sf		12	12
Rebar Templates	3200.980	3.00 lf	33.00 /mh	5	0.50 /lf	2		/lf		/lf		6	9
Drill and Epoxy ties	3210.101	12.00 ea	33.00 /mh	99	5.00 /ea	63		/ea		/ea		162	206
Drill and Epoxy #4	3210.101	12.00 ea	33.00 /mh	99	5.00 /ea	63		/ea		/ea		162	206
XYPEX Admix	3310.100	2.00 cy	/cy		90.00 /cy	193		/cy		/cy		193	193
10 HWK Headworks Building													
Concrete Concrete													
019-100 Water Test Headworks													
Water Test Basins	3995.200	1.00 ea	33.00 /mh	1,056	/ea			/ea		/ea		1,056	1,521
Pumps	3995.200	1.00 ls	/ls		1,500.00 /ls	1,500		/ls		/ls		1,500	1,500
Temporary Bulkheads	3995.200	3.00 ea	33.00 /mh	396	250.00 /ea	750		/ea		/ea		1,146	1,320
Urethane Injection System	3995.200	1.00 ls	33.00 /mh	1,320	1,500.00 /ls	1,500		500.00 /ls	500	/ls		3,320	3,901
0302- Headwork Grit Effluent Channel Base Slab (10S201)													
4500 psi Concrete	3310.100	18.00 cy	/cy		198.00 /cy	3,813		/cy		/cy		3,813	3,813
Slab Placement Count	3310.360	2.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Pump Place Slab on Grade	3310.230	18.00 cy	33.00 /mh	763	/cy			/cy		35.00 /cy	674	1,437	1,772
Formwork S.O.G. Edge Form > 1'	3100.120	133.92 sf	33.00 /mh	1,547	2.00 /sf	281		/sf		/sf		1,828	2,509
Formwork S.O.G. Const Joints > 1'	3100.120	8.64 sf	33.00 /mh	131	2.00 /sf	18		/sf		/sf		149	207
CJ Prep Slab	3350.170	8.64 sf	33.00 /mh	7	0.15 /sf	1		/sf		/sf		8	12
Finegrade Below Concrete	3150.650	432.00 sf	33.00 /mh	200	/sf			/sf		/sf		200	287
Finish- Hard Trowel	3350.110	432.00 sf	33.00 /mh	200	/sf			/sf		/sf		200	287
Liquid Curing Compounds	3390.170	432.00 sf	33.00 /mh	29	0.06 /sf	26		/sf		/sf		54	67
Blockouts in Concrete	3150.194	36.00 sf	33.00 /mh	416	2.00 /sf	72		/sf		/sf		488	671
Waterstop 6" Flat	3510.610	125.00 lf	33.00 /mh	413	6.00 /lf	788		/lf		/lf		1,200	1,382
Oil SOG Form	3100.310	142.56 sf	/sf		0.02 /sf	3		/sf		/sf		3	3
Nails and Hardware	3150.200	133.92 sf	/sf		0.04 /sf	5		/sf		/sf		5	5
Dimension Lumber	3150.200	133.92 sf	/sf		0.50 /sf	67		/sf		/sf		67	67
Waterstop PVC greenstreak 609	3510.610	16.00 lf	33.00 /mh	106	83.00 /lf	1,394		/lf		/lf		1,500	1,546
Drill and Epoxy #5	3210.101	32.00 ea	33.00 /mh	317	5.00 /ea	168		/ea		/ea		485	624
Waterstop Fitting - Vertical Tee	3510.610	8.00 ea	33.00 /mh	264	71.00 /ea	568		/ea		/ea		832	948
Waterstop Fitting - Flat L	3510.610	6.00 ea	33.00 /mh	198	49.00 /ea	294		/ea		/ea		492	579
Xypex Admixture	3310.100	18.00 cy	/cy		90.00 /cy	1,733		/cy		/cy		1,733	1,733
0302- Headworks Footer F-2 Lower level (10S202)													
4500 psi Concrete	3310.100	20.00 cy	/cy		198.00 /cy	4,237		/cy		/cy		4,237	4,237
Slab Placement Count	3310.360	2.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Pump Place Slab on Grade	3310.230	20.00 cy	33.00 /mh	847	/cy			/cy		35.00 /cy	749	1,596	1,969
Formwork S.O.G. Edge Form > 1'	3100.120	260.40 sf	33.00 /mh	3,008	2.00 /sf	547		/sf		/sf		3,554	4,878
Formwork S.O.G. Const Joints > 1'	3100.120	16.80 sf	33.00 /mh	255	2.00 /sf	35		/sf		/sf		290	403
CJ Prep Slab	3350.170	16.80 sf	33.00 /mh	14	0.15 /sf	3		/sf		/sf		16	22
Finegrade Below Concrete	3150.650	480.00 sf	33.00 /mh	222	/sf			/sf		/sf		222	319
Finish- Hard Trowel	3350.110	480.00 sf	33.00 /mh	222	/sf			/sf		/sf		222	319
Liquid Curing Compounds	3390.170	480.00 sf	33.00 /mh	32	0.06 /sf	29		/sf		/sf		60	74
Oil SOG Form	3100.310	277.20 sf	/sf		0.02 /sf	6		/sf		/sf		6	6
Nails and Hardware	3150.200	260.40 sf	/sf		0.04 /sf	10		/sf		/sf		10	10
Dimension Lumber	3150.200	260.40 sf	/sf		0.50 /sf	130		/sf		/sf		130	130
0302- Headworks Dumpster Area Slab elev 4757.75 (10S202)													
4500 psi Concrete	3310.100	63.00 cy	/cy		198.00 /cy	13,347		/cy		/cy		13,347	13,347
Slab Placement Count	3310.360	3.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Pump Place Slab on Grade	3310.230	63.00 cy	33.00 /mh	2,225	/cy			/cy		35.00 /cy	2,359	4,584	5,563
Formwork S.O.G. Edge Form < 1'	3100.120	204.00 sf	33.00 /mh	2,356	2.00 /sf	428		/sf		/sf		2,785	3,821
Formwork S.O.G. Const Joints < 1'	3100.120	42.00 sf	33.00 /mh	638	2.00 /sf	88		/sf		/sf		726	1,006
CJ Prep Slab	3350.170	42.00 sf	33.00 /mh	35	0.15 /sf	6		/sf		/sf		41	56
Finegrade Below Concrete	3150.650	1,701.00 sf	33.00 /mh	786	/sf			/sf		/sf		786	1,132
Finish- Hard Trowel	3350.110	1,701.00 sf	33.00 /mh	786	/sf			/sf		/sf		786	1,132

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
0302- Headworks Dumpster Area Slab elev 4757.75 (10S202)													
Liquid Curing Compounds	3390.170	1,701.00 sf	33.00 /mh	112	0.06 /sf	102		/sf		/sf		214	264
Blockouts in Concrete	3150.194	24.00 sf	33.00 /mh	277	2.00 /sf	48		/sf		/sf		325	447
Waterstop 6" Flat	3510.610	92.00 lf	33.00 /mh	304	6.00 /lf	580		/lf		/lf		883	1,017
Expansion Joint	3150.720	120.00 sf	33.00 /mh	396	12.00 /sf	1,512		/sf		/sf		1,908	2,082
Expansion Joint Sealant	3150.720	120.00 lf	33.00 /mh	396	2.00 /lf	252		/lf		/lf		648	822
Oil SOG Form	3100.310	246.00 sf	/sf		0.02 /sf	5		/sf		/sf		5	5
Nails and Hardware	3150.200	204.00 sf	/sf		0.04 /sf	8		/sf		/sf		8	8
Dimension Lumber	3150.200	204.00 sf	/sf		0.50 /sf	102		/sf		/sf		102	102
Level and touch up floor drains	3150.194	12.00 ea	33.00 /mh	792	0.00 /ea	0		/ea		/ea		792	1,140
15 Mil. Vapor Barrier	3150.630	1,701.00 sf	33.00 /mh	1,123	0.30 /sf	561		/sf		/sf		1,684	2,178
0302- Headworks Upper Level Footings F-1, F-7, F-6 and F-9(10S202)													
4500 psi Concrete	3310.100	34.00 cy	/cy		198.00 /cy	7,203		/cy		/cy		7,203	7,203
Slab Placement Count	3310.360	8.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Pump Place Slab on Grade	3310.230	34.00 cy	33.00 /mh	2,401	/cy			/cy		35.00 /cy	1,273	3,674	4,731
Formwork S.O.G. Edge Form < 1'	3100.120	565.00 sf	33.00 /mh	7,831	2.00 /sf	1,187		/sf		/sf		9,017	12,463
Formwork S.O.G. Const Joints < 1'	3100.120	84.00 sf	33.00 /mh	1,275	2.00 /sf	176		/sf		/sf		1,452	2,013
CJ Prep Slab	3350.170	30.00 sf	33.00 /mh	25	0.15 /sf	5		/sf		/sf		29	40
Finegrade Below Concrete	3150.650	624.00 sf	33.00 /mh	1,647	/sf			/sf		/sf		1,647	2,372
Finish- Hard Trowel	3350.110	624.00 sf	33.00 /mh	288	/sf			/sf		/sf		288	415
Liquid Curing Compounds	3390.170	624.00 sf	33.00 /mh	41	0.06 /sf	37		/sf		/sf		79	97
Oil SOG Form	3100.310	452.00 sf	/sf		0.02 /sf	9		/sf		/sf		9	9
Nails and Hardware	3150.200	422.00 sf	/sf		0.04 /sf	17		/sf		/sf		17	17
Dimension Lumber	3150.200	422.00 sf	/sf		0.50 /sf	211		/sf		/sf		211	211
Flow Fill at steps	3310.105	8.00 cy	33.00 /mh	792	152.00 /cy	1,277		/cy		/cy		2,069	2,417
0302- Headworks Grit Influent Channel lower level slab S-3 (10S202)													
4500 psi Concrete	3310.100	41.00 cy	/cy		198.00 /cy	8,686		/cy		/cy		8,686	8,686
Slab Placement Count	3310.360	4.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Pump Place Slab on Grade	3310.230	41.00 cy	33.00 /mh	2,172	/cy			/cy		35.00 /cy	1,535	3,707	4,663
Formwork S.O.G. Edge Form > 1'	3100.120	290.16 sf	33.00 /mh	3,351	2.00 /sf	609		/sf		/sf		3,961	5,435
Formwork S.O.G. Const Joints > 1'	3100.120	31.20 sf	33.00 /mh	474	2.00 /sf	66		/sf		/sf		539	748
CJ Prep Slab	3350.170	31.20 sf	33.00 /mh	26	0.15 /sf	5		/sf		/sf		30	42
Finegrade Below Concrete	3150.650	1,050.00 sf	33.00 /mh	485	/sf			/sf		/sf		485	699
Finish- Hard Trowel	3350.110	1,050.00 sf	33.00 /mh	485	/sf			/sf		/sf		485	699
Liquid Curing Compounds	3390.170	1,050.00 sf	33.00 /mh	69	0.06 /sf	63		/sf		/sf		132	163
Blockouts in Concrete	3150.194	40.00 sf	33.00 /mh	462	2.00 /sf	80		/sf		/sf		542	745
Waterstop 6" Flat	3510.610	270.00 lf	33.00 /mh	891	6.00 /lf	1,701		/lf		/lf		2,592	2,984
Oil SOG Form	3100.310	321.36 sf	/sf		0.02 /sf	6		/sf		/sf		6	6
Nails and Hardware	3150.200	290.16 sf	/sf		0.04 /sf	12		/sf		/sf		12	12
Dimension Lumber	3150.200	290.16 sf	/sf		0.50 /sf	145		/sf		/sf		145	145
Waterstop Greenstreak 609	3510.610	50.00 lf	33.00 /mh	330	83.00 /lf	4,358		/lf		/lf		4,688	4,833
Drill and Epoxy #5	3210.101	88.00 ea	33.00 /mh	871	5.00 /ea	462		/ea		/ea		1,333	1,717
Waterstop Fitting - Vertical Tee	3510.610	6.00 ea	33.00 /mh	198	71.00 /ea	426		/ea		/ea		624	711
Waterstop Fitting - Flat L	3510.610	12.00 ea	33.00 /mh	396	49.00 /ea	588		/ea		/ea		984	1,158
XYPEX Admix	3310.100	41.00 cy	/cy		90.00 /cy	3,948		/cy		/cy		3,948	3,948
0302- Headworks Screening channel Base Slab (10S202)													
4500 psi Concrete	3310.100	54.00 cy	/cy		198.00 /cy	11,440		/cy		/cy		11,440	11,440
Slab Placement Count	3310.360	1.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Pump Place Slab on Grade	3310.230	54.00 cy	33.00 /mh	2,860	/cy			/cy		35.00 /cy	2,022	4,882	6,141
Formwork S.O.G. Edge Form > 1'	3100.120	195.00 sf	33.00 /mh	2,574	2.00 /sf	410		/sf		/sf		2,984	4,116
Finegrade Below Concrete	3150.650	828.00 sf	33.00 /mh	383	/sf			/sf		/sf		383	551
Finish- Hard Trowel	3350.110	828.00 sf	33.00 /mh	383	/sf			/sf		/sf		383	551
Liquid Curing Compounds	3390.170	828.00 sf	33.00 /mh	55	0.06 /sf	50		/sf		/sf		104	128
Blockouts in Concrete	3150.194	24.00 sf	33.00 /mh	277	2.00 /sf	48		/sf		/sf		325	447
Waterstop 6" Flat	3510.610	250.00 lf	33.00 /mh	825	6.00 /lf	1,575		/lf		/lf		2,400	2,763
Oil SOG Form	3100.310	177.00 sf	/sf		0.02 /sf	4		/sf		/sf		4	4
Nails and Hardware	3150.200	177.00 sf	/sf		0.04 /sf	7		/sf		/sf		7	7
Dimension Lumber	3150.200	177.00 sf	/sf		0.50 /sf	89		/sf		/sf		89	89
Waterstop Fitting - Vertical Tee	3510.610	12.00 ea	33.00 /mh	396	71.00 /ea	852		/ea		/ea		1,248	1,422
Waterstop Fitting - Vertical Cross	3510.610	4.00 ea	33.00 /mh	132	102.00 /ea	408		/ea		/ea		540	598
Waterstop Fitting - Flat L	3510.610	16.00 ea	33.00 /mh	528	49.00 /ea	784		/ea		/ea		1,312	1,544
XYPEX Admix	3310.100	46.00 cy	/cy		90.00 /cy	4,430		/cy		/cy		4,430	4,430
Flow Fill under slab at thick	3310.105	5.00 cy	33.00 /mh	165	152.00 /cy	798		/cy		/cy		963	1,036
0302- Headworks operating level Slab (10S202)													
4500 psi Concrete	3310.100	113.00 cy	/cy		198.00 /cy	23,940		/cy		/cy		23,940	23,940
Slab Placement Count	3310.360	3.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Pump Place Slab on Grade	3310.230	113.00 cy	33.00 /mh	4,988	/cy			/cy		35.00 /cy	4,232	9,219	11,414
Formwork S.O.G. Edge Form < 1'	3100.120	310.88 sf	33.00 /mh	3,591	2.00 /sf	653		/sf		/sf		4,244	5,823
Formwork S.O.G. Const Joints < 1'	3100.120	87.10 sf	33.00 /mh	1,322	2.00 /sf	183		/sf		/sf		1,505	2,087
CJ Prep Slab	3350.170	87.10 sf	33.00 /mh	72	0.15 /sf	13		/sf		/sf		85	117
Finegrade Below Concrete	3150.650	4,542.00 sf	33.00 /mh	2,098	/sf			/sf		/sf		2,098	3,022
Finish- Hard Trowel	3350.110	4,542.00 sf	33.00 /mh	2,098	/sf			/sf		/sf		2,098	3,022
Liquid Curing Compounds	3390.170	4,542.00 sf	33.00 /mh	300	0.06 /sf	273		/sf		/sf		572	704
Blockouts in Concrete	3150.194	48.00 sf	33.00 /mh	554	2.00 /sf	96		/sf		/sf		650	894
Expansion Joint	3150.720	168.17 sf	33.00 /mh	555	12.00 /sf	2,119		/sf		/sf		2,674	2,918
Expansion Joint Sealant	3150.720	251.00 lf	33.00 /mh	828	2.00 /lf	527		/lf		/lf		1,355	1,720
Oil SOG Form	3100.310	397.98 sf	/sf		0.02 /sf	8		/sf		/sf		8	8
Nails and Hardware	3150.200	310.88 sf	/sf		0.04 /sf	12		/sf		/sf		12	12
Dimension Lumber	3150.200	310.88 sf	/sf		0.50 /sf	155		/sf		/sf		155	155
Saw Cut S-O-G	3350.160	395.00 lf	33.00 /mh	652	0.50 /lf	198		/lf	0.50 /lf	198		1,047	1,334
Channel Edge Forms	3100.124	330.00 sf	33.00 /mh	5,445	2.00 /sf	693		/sf		/sf		6,138	8,534
15 Mil. Vapor Barrier	3150.630	4,542.00 sf	33.00 /mh	749	0.30 /sf	1,499		/sf		/sf		2,248	2,578
XYPEX Admix	3310.100	113.00 cy	/cy		90.00 /cy	10,882		/cy		/cy		10,882	10,882

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
0302- Stoop, HVAC and Door Pads at Headworks													
4500 psi Concrete	3310.100	24.82 cy	/cy		198.00 /cy	5,257		/cy		/cy		5,257	5,257
Slab Placement Count	3310.360	8.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Truck Place Slab on Grade	3310.230	24.82 cy	33.00 /mh	1,314	/cy			/cy		/cy		1,314	1,893
Formwork S.O.G. Edge Form < 1'	3100.120	225.12 sf	33.00 /mh	2,972	2.00 /sf	473		/sf		/sf		3,444	4,752
Finegrade Below Concrete	3150.650	1,000.00 sf	33.00 /mh	462	/sf			/sf		/sf		462	665
Finish- Hard Trowel	3350.110	1,000.00 sf	33.00 /mh	462	/sf			/sf		/sf		462	665
Liquid Curing Compounds	3390.170	1,000.00 sf	33.00 /mh	66	0.06 /sf	60		/sf		/sf		126	155
Road Base Below Concrete	2305.300	37.04 cy	33.00 /mh	1,222	25.00 /ton	1,833		/cy		/cy		3,056	3,593
Expansion Joint	3150.720	67.00 sf	33.00 /mh	221	12.00 /sf	844		/sf		/sf		1,065	1,163
Expansion Joint Sealant	3150.720	100.00 lf	33.00 /mh	330	2.00 /lf	210		/lf		/lf		540	685
Oil SOG Form	3100.310	225.12 sf	/sf		0.02 /sf	5		/sf		/sf		5	5
Nails and Hardware	3150.200	225.12 sf	/sf		0.04 /sf	9		/sf		/sf		9	9
Dimension Lumber	3150.200	225.12 sf	/sf		0.50 /sf	113		/sf		/sf		113	113
Saw Cut S-O-G	3350.160	130.00 lf	33.00 /mh	215	0.50 /lf	65		0.50 /lf	65	/lf		345	439
SOG Rebar	3210.104	2.48 tn	33.00 /mh	3,275	1,600.00 /tn	4,168		/tn		/tn		7,443	8,884
0302-B Headworks Chanel fillets and floor slope													
4500 psi Concrete	3310.100	23.00 cy	/cy		198.00 /cy	4,873		/cy		/cy		4,873	4,873
Truck Place Slab on Grade	3310.230	23.00 cy	33.00 /mh	3,249	/cy			/cy		/cy		3,249	4,678
Formwork S.O.G. Edge Form < 1'	3100.120	106.00 sf	33.00 /mh	1,224	2.00 /sf	223		/sf		/sf		1,447	1,986
Finish- Hard Trowel	3350.110	250.00 sf	33.00 /mh	116	/sf			/sf		/sf		116	166
Blockouts in Concrete	3150.194	48.00 sf	33.00 /mh	554	2.00 /sf	96		/sf		/sf		650	894
Oil SOG Form	3100.310	106.00 sf	/sf		0.02 /sf	2		/sf		/sf		2	2
Nails and Hardware	3150.200	106.00 sf	/sf		0.04 /sf	4		/sf		/sf		4	4
Dimension Lumber	3150.200	106.00 sf	/sf		0.50 /sf	53		/sf		/sf		53	53
CJ Prep Slab	3350.170	450.00 sf	33.00 /mh	743	0.15 /sf	68		/sf		/sf		810	1,137
Acrylic Bonding Agent	3150.200	450.00 sf	33.00 /mh	743	1.00 /sf	450		/sf		/sf		1,193	1,519
XYPEX Admix	3310.100	12.00 cy	/cy		90.00 /cy	1,156		/cy		/cy		1,156	1,156
Form Special platform above grout at effluent	3150.200	1.00 ls	33.00 /mh	3,168	250.00 /sf	250		/ls		/ls		3,418	4,812
0303- Headworks Grit Effluent Walls (10S201)													
Pump Place Walls	3310.260	36.00 cy	33.00 /mh	1,907	/cy			/cy		35.00 /cy	1,348	3,255	4,094
4500 psi Concrete	3310.100	36.00 cy	/cy		198.00 /cy	7,627		/cy		/cy		7,627	7,627
Wall Placement Count	3310.360	3.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Rented Form System 4-8'	3100.180	1,917.50 sf	33.00 /mh	13,921	1.75 /sf	3,523		/sf		/sf		17,444	23,570
Wall Bulkhead Forms	3150.192	46.02 sf	33.00 /mh	699	2.00 /sf	97		/sf		/sf		795	1,103
CJ Prep Walls	3350.170	171.02 sf	33.00 /mh	141	0.15 /sf	26		/sf		/sf		167	229
Finish- Top of Wall	3350.110	125.00 sf	33.00 /mh	58	/sf			/sf		/sf		58	83
Liquid Curing Walls	3390.170	2,042.50 sf	33.00 /mh	67	0.06 /sf	123		/sf		/sf		190	220
Grind/Patch Walls	3350.130	1,917.50 sf	33.00 /mh	759	0.07 /sf	134		/sf		/sf		894	1,228
Blockouts in Concrete	3150.194	96.00 sf	33.00 /mh	1,109	2.00 /sf	192		/sf		/sf		1,301	1,789
Waterstop 6" Flat	3510.610	171.02 lf	33.00 /mh	564	6.00 /lf	1,077		/lf		/lf		1,642	1,890
Rub Walls	3350.140	958.75 sf	33.00 /mh	1,582	0.25 /sf	240		/sf		/sf		1,822	2,518
Oil Wall Forms	3100.310	1,917.50 sf	/sf		0.02 /sf	38		/sf		/sf		38	38
Nails and Hardware	3150.200	1,917.50 sf	/sf		0.04 /sf	77		/sf		/sf		77	77
Form Ties 12"	3150.632	479.38 ea	/ea		2.60 /ea	1,246		/ea		/ea		1,246	1,246
Dimension Lumber	3150.200	1,917.50 sf	/sf		0.50 /sf	959		/sf		/sf		959	959
Rebar Templates	3200.980	125.00 lf	33.00 /mh	206	0.50 /lf	63		/lf		/lf		269	360
Waterstop Greenstreak 609	3510.610	32.00 lf	33.00 /mh	211	83.00 /lf	2,789		/lf		/lf		3,000	3,093
Drill and Epoxy #5	3210.101	64.00 ea	33.00 /mh	634	5.00 /ea	336		/ea		/ea		970	1,248
Waterstop Fitting - Vertical Tee	3510.610	8.00 ea	33.00 /mh	264	71.00 /ea	568		/ea		/ea		832	948
Waterstop Fitting - Flat L	3510.610	6.00 ea	33.00 /mh	198	49.00 /ea	294		/ea		/ea		492	579
XYPEX Admix	3310.100	36.00 cy	/cy		90.00 /cy	3,467		/cy		/cy		3,467	3,467
0303- Headworks Wall-2 at dumpster area (10S401)													
Pump Place Walls	3310.260	16.67 cy	33.00 /mh	883	/cy			/cy		35.00 /cy	624	1,507	1,895
4500 psi Concrete	3310.100	16.67 cy	/cy		198.00 /cy	3,531		/cy		/cy		3,531	3,531
Wall Placement Count	3310.360	3.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Rented Form System 0-4'	3100.180	600.00 sf	33.00 /mh	4,356	1.75 /sf	1,103		/sf		/sf		5,459	7,375
Wall Bulkhead Forms	3150.192	18.75 sf	33.00 /mh	285	2.00 /sf	39		/sf		/sf		324	449
CJ Prep Walls	3350.170	198.75 sf	33.00 /mh	164	0.15 /sf	30		/sf		/sf		194	266
Finish- Top of Wall	3350.110	180.00 sf	33.00 /mh	83	/sf			/sf		/sf		83	120
Liquid Curing Walls	3390.170	780.00 sf	33.00 /mh	26	0.06 /sf	47		/sf		/sf		73	84
Grind/Patch Walls	3350.130	600.00 sf	33.00 /mh	238	0.07 /sf	42		/sf		/sf		280	384
Blockouts in Concrete	3150.194	28.00 sf	33.00 /mh	323	2.00 /sf	56		/sf		/sf		379	522
Rub Walls	3350.140	240.00 sf	33.00 /mh	396	0.25 /sf	60		/sf		/sf		456	630
Oil Wall Forms	3100.310	600.00 sf	/sf		0.02 /sf	12		/sf		/sf		12	12
Nails and Hardware	3150.200	600.00 sf	/sf		0.04 /sf	24		/sf		/sf		24	24
Form Ties 18"	3150.632	150.00 ea	/ea		2.90 /ea	435		/ea		/ea		435	435
Dimension Lumber	3150.200	600.00 sf	/sf		0.50 /sf	300		/sf		/sf		300	300
Rebar Templates	3200.980	120.00 lf	33.00 /mh	198	0.50 /lf	60		/lf		/lf		258	345
0303- Headworks Wall between dumpster room and upper level W-2 (10S401)													
Pump Place Walls	3310.260	55.56 cy	33.00 /mh	2,943	/cy			/cy		35.00 /cy	2,081	5,023	6,318
4500 psi Concrete	3310.100	55.56 cy	/cy		198.00 /cy	11,770		/cy		/cy		11,770	11,770
Wall Placement Count	3310.360	3.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Rented Form System 8-12'	3100.180	2,000.00 sf	33.00 /mh	11,880	1.75 /sf	3,675		/sf		/sf		15,555	20,782
Wall Bulkhead Forms	3150.192	60.00 sf	33.00 /mh	911	2.00 /sf	126		/sf		/sf		1,037	1,438
CJ Prep Walls	3350.170	210.00 sf	33.00 /mh	173	0.15 /sf	32		/sf		/sf		205	281
Finish- Top of Wall	3350.110	150.00 sf	33.00 /mh	69	/sf			/sf		/sf		69	100
Liquid Curing Walls	3390.170	2,150.00 sf	33.00 /mh	71	0.06 /sf	129		/sf		/sf		200	231
Grind/Patch Walls	3350.130	2,000.00 sf	33.00 /mh	792	0.07 /sf	140		/sf		/sf		932	1,280
Chamfer 3/4"	3150.625	100.00 lf	33.00 /mh	165	0.25 /lf	26		/lf		/lf		191	264
Rub Walls	3350.140	1,200.00 sf	33.00 /mh	1,980	0.25 /sf	300		/sf		/sf		2,280	3,151
Oil Wall Forms	3100.310	2,000.00 sf	/sf		0.02 /sf	40		/sf		/sf		40	40
Nails and Hardware	3150.200	2,000.00 sf	/sf		0.04 /sf	80		/sf		/sf		80	80

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
0303- Headworks Wall between dumpster room and upper level W-2 (10S401)													
Form Ties 18"	3150.632	500.00 ea	/ea		2.90 /ea	1,450		/ea		/ea		1,450	1,450
Dimension Lumber	3150.200	2,000.00 sf	/sf		0.50 /sf	1,000		/sf		/sf		1,000	1,000
Rebar Templates	3200.980	100.00 lf	33.00 /mh	165	0.50 /lf	50		/lf		/lf		215	288
Rebar Formsavers # 5	3210.108	104.00 ea	33.00 /mh	1,133	28.00 /ea	2,912		/ea		/ea		4,045	4,543
0303- Headworks Exterior Walls Upper Level W-1, W-7,W-8,W-9 (10S201)													
Pump Place Walls	3310.260	58.50 cy	33.00 /mh	3,098	/cy			/cy		35.00 /cy	2,191	5,289	6,652
4500 psi Concrete	3310.100	58.50 cy	/cy		198.00 /cy	12,393		/cy		/cy		12,393	12,393
Wall Placement Count	3310.360	4.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Rented Form System 0-4'	3100.180	672.00 sf	33.00 /mh	4,435	1.75 /sf	1,235		/sf		/sf		5,670	7,621
Rented Form System 4-8'	3100.180	352.00 sf	33.00 /mh	2,323	1.75 /sf	647		/sf		/sf		2,970	3,992
Rented Form System 8-12'	3100.180	1,351.00 sf	33.00 /mh	8,917	1.75 /sf	2,482		/sf		/sf		11,399	15,322
Wall Bulkhead Forms	3150.192	162.26 sf	33.00 /mh	2,463	2.00 /sf	341		/sf		/sf		2,804	3,888
CJ Prep Walls	3350.170	442.89 sf	33.00 /mh	365	0.15 /sf	66		/sf		/sf		432	593
Finish- Top of Wall	3350.110	280.63 sf	33.00 /mh	130	/sf			/sf		/sf		130	187
Liquid Curing Walls	3390.170	2,655.63 sf	33.00 /mh	88	0.06 /sf	159		/sf		/sf		247	286
Grind/Patch Walls	3350.130	2,375.00 sf	33.00 /mh	941	0.07 /sf	166		/sf		/sf		1,107	1,521
Chamfer 3/4"	3150.625	422.00 lf	33.00 /mh	696	0.25 /lf	111		/lf		/lf		807	1,113
Rub Walls	3350.140	1,776.00 sf	33.00 /mh	2,930	0.25 /sf	444		/sf		/sf		3,374	4,664
Oil Wall Forms	3100.310	2,375.00 sf	/sf		0.02 /sf	48		/sf		/sf		48	48
Nails and Hardware	3150.200	2,375.00 sf	/sf		0.04 /sf	95		/sf		/sf		95	95
Form Ties 16"	3150.632	593.75 ea	/ea		2.80 /ea	1,663		/ea		/ea		1,663	1,663
Dimension Lumber	3150.200	2,375.00 sf	/sf		0.50 /sf	1,188		/sf		/sf		1,188	1,188
Rebar Templates	3200.980	211.00 lf	33.00 /mh	348	0.50 /lf	106		/lf		/lf		454	607
0303- Headworks Screening Channel Walls All (10S202)													
Pump Place Walls	3310.260	46.00 cy	33.00 /mh	2,436	/cy			/cy		35.00 /cy	1,723	4,159	5,231
4500 psi Concrete	3310.100	46.00 cy	/cy		198.00 /cy	9,746		/cy		/cy		9,746	9,746
Wall Placement Count	3310.360	7.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Rented Form System 0-4'	3100.180	1,880.00 sf	33.00 /mh	13,649	1.75 /sf	3,455		/sf		/sf		17,103	23,109
Rented Form System 4-8'	3100.180	977.50 sf	33.00 /mh	7,097	1.75 /sf	1,796		/sf		/sf		8,893	12,015
Wall Bulkhead Forms	3150.192	39.00 sf	33.00 /mh	592	2.00 /sf	82		/sf		/sf		674	934
CJ Prep Walls	3350.170	310.70 sf	33.00 /mh	256	0.15 /sf	47		/sf		/sf		303	416
Finish- Top of Wall	3350.110	271.70 sf	33.00 /mh	126	/sf			/sf		/sf		126	181
Liquid Curing Walls	3390.170	3,129.20 sf	33.00 /mh	103	0.06 /sf	188		/sf		/sf		291	336
Grind/Patch Walls	3350.130	2,857.50 sf	33.00 /mh	1,132	0.07 /sf	200		/sf		/sf		1,332	1,829
Blockouts in Concrete	3150.194	80.00 sf	33.00 /mh	924	2.00 /sf	160		/sf		/sf		1,084	1,491
Waterstop 6" Flat	3510.610	359.00 lf	33.00 /mh	1,185	6.00 /lf	2,262		/lf		/lf		3,446	3,968
Rub Walls	3350.140	1,428.75 sf	33.00 /mh	2,357	0.25 /sf	357		/sf		/sf		2,715	3,752
Oil Wall Forms	3100.310	2,857.50 sf	/sf		0.02 /sf	57		/sf		/sf		57	57
Nails and Hardware	3150.200	2,857.50 sf	/sf		0.04 /sf	114		/sf		/sf		114	114
Form Ties 10"	3150.632	300.00 ea	/ea		2.50 /ea	750		/ea		/ea		750	750
Form Ties 12"	3150.632	414.38 ea	/ea		2.60 /ea	1,077		/ea		/ea		1,077	1,077
Dimension Lumber	3150.200	2,857.50 sf	/sf		0.50 /sf	1,429		/sf		/sf		1,429	1,429
Rebar Templates	3200.980	320.00 lf	33.00 /mh	528	0.50 /lf	160		/lf		/lf		688	920
Waterstop Greenstreak 609	3510.610	20.00 lf	33.00 /mh	132	83.00 /lf	1,743		/lf		/lf		1,875	1,933
Waterstop Fitting - Vertical Tee	3510.610	8.00 ea	33.00 /mh	264	71.00 /ea	568		/ea		/ea		832	948
Waterstop Fitting - Flat L	3510.610	12.00 ea	33.00 /mh	396	49.00 /ea	588		/ea		/ea		984	1,158
Drill and Epoxy #5	3210.101	46.00 ea	33.00 /mh	455	5.00 /ea	242		/ea		/ea		697	897
XYPEX Admix	3310.100	46.00 cy	/cy		90.00 /cy	4,430		/cy		/cy		4,430	4,430
0303- Future Cut Off Walls Headworks													
Buggy Place Walls	3310.260	3.00 cy	33.00 /mh	424	/cy			/cy		/cy		424	610
4500 psi Concrete	3310.100	3.00 cy	/cy		198.00 /cy	636		/cy		/cy		636	636
Wall Placement Count	3310.360	3.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Rented Form System 4-8'	3100.180	144.00 sf	33.00 /mh	1,426	1.75 /sf	265		/sf		/sf		1,690	2,317
Wall Bulkhead Forms	3150.192	48.00 sf	33.00 /mh	729	2.00 /sf	101		/sf		/sf		829	1,150
CJ Prep Walls	3350.170	48.00 sf	33.00 /mh	40	0.15 /sf	7		/sf		/sf		47	64
Finish- Top of Wall	3350.110	8.00 sf	33.00 /mh	4	/sf			/sf		/sf		4	5
Liquid Curing Walls	3390.170	150.00 sf	33.00 /mh	5	0.06 /sf	9		/sf		/sf		14	16
Grind/Patch Walls	3350.130	144.00 sf	33.00 /mh	57	0.07 /sf	10		/sf		/sf		67	92
Chamfer 3/4"	3150.625	144.00 lf	33.00 /mh	238	0.25 /lf	38		/lf		/lf		275	380
Rub Walls	3350.140	72.00 sf	33.00 /mh	119	0.25 /sf	18		/sf		/sf		137	189
Oil Wall Forms	3100.310	144.00 sf	/sf		0.02 /sf	3		/sf		/sf		3	3
Nails and Hardware	3150.200	144.00 sf	/sf		0.04 /sf	6		/sf		/sf		6	6
Form Ties 8"	3150.632	36.00 ea	/ea		2.50 /ea	90		/ea		/ea		90	90
Dimension Lumber	3150.200	144.00 sf	/sf		0.50 /sf	72		/sf		/sf		72	72
Rebar Templates	3200.980	12.00 lf	33.00 /mh	20	0.50 /lf	6		/lf		/lf		26	35
Waterstop Greenstreak 609	3510.610	60.00 lf	33.00 /mh	396	83.00 /lf	5,229		/lf		/lf		5,625	5,799
Rebar Formsavers # 6	3210.108	57.00 ea	33.00 /mh	941	39.00 /ea	2,223		/ea		/ea		3,164	3,577
0304- Headworks Screening Island Decks (10S202)													
4500 psi Concrete	3310.100	9.00 cy	/cy		198.00 /cy	1,907		/cy		/cy		1,907	1,907
Slab Placement Count	3310.360	3.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Crane Place Suspended Slab	3310.240	9.00 cy	33.00 /mh	794	/cy			/cy		/cy		794	1,144
Slab Edge Form < 1'	3100.124	92.46 sf	33.00 /mh	1,526	2.00 /sf	194		/sf		/sf		1,720	2,391
Finish- Hard Trowel	3350.110	336.00 sf	33.00 /mh	155	/sf			/sf		/sf		155	224
Liquid Curing Compounds	3390.170	336.00 sf	33.00 /mh	22	0.06 /sf	20		/sf		/sf		42	52
Grind and Patch Deck Bottom	3350.130	336.00 sf	33.00 /mh	133	0.07 /sf	24		/sf		/sf		157	215
Blockouts in Concrete	3150.194	24.00 sf	33.00 /mh	277	2.00 /sf	48		/sf		/sf		325	447
Oil Suspended Slab Frm	3100.310	336.00 sf	/sf		0.02 /sf	7		/sf		/sf		7	7
Nails and Hardware	3150.200	336.00 sf	/sf		0.04 /sf	13		/sf		/sf		13	13
Geo Void Foam under slab	3100.320	1,152.00 cf	33.00 /mh	2,471	6.00 /cf	7,603		/cf		/cf		10,074	11,162
XYPEX Admix	3310.100	9.00 cy	/cy		90.00 /cy	867		/cy		/cy		867	867
0308- Headworks Grit Chamber Base Slabs 2ea (10S401)													
4500 psi Concrete	3310.100	36.00 cy	/cy		198.00 /cy	7,627		/cy		/cy		7,627	7,627

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
0308- Headworks Grit Chamber Base Slabs 2ea (10S401)													
Slab Placement Count	3310.360	2.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Pump Place Slab on Grade	3310.230	36.00 cy	33.00 /mh	1,907	/cy			/cy		35.00 /cy	1,348	3,255	4,094
Formwork S.O.G. Edge Form > 1' Circular Slab	3100.120	172.79 sf	33.00 /mh	2,281	2.00 /sf	363		/sf		/sf		2,644	3,647
Finegrade Below Concrete	3150.650	760.27 sf	33.00 /mh	351	/sf			/sf		/sf		351	506
Finish- Hard Trowel	3350.110	760.27 sf	33.00 /mh	351	/sf			/sf		/sf		351	506
Liquid Curing Compounds	3390.170	760.27 sf	33.00 /mh	50	0.06 /sf	46		/sf		/sf		96	118
Waterstop 6" Flat	3510.610	114.00 lf	33.00 /mh	376	6.00 /lf	718		/lf		/lf		1,094	1,260
Oil SOG Form	3100.310	172.79 sf	/sf		0.02 /sf	3		/sf		/sf		3	3
Nails and Hardware	3150.200	172.79 sf	/sf		0.04 /sf	7		/sf		/sf		7	7
Dimension Lumber	3150.200	172.79 sf	/sf		0.50 /sf	86		/sf		/sf		86	86
XYPEX Admix	3310.100	36.00 cy	/cy		90.00 /cy	3,467		/cy		/cy		3,467	3,467
0308- Grit Chamber Grout													
4500 psi Concrete (non shrink Grout)	3310.100	38.00 cy	/cy		1,620.00 /cy	65,869		/cy		/cy		65,869	65,869
Pump Place Slab on Grade	3310.230	38.00 cy	33.00 /mh	1,342	/cy			/cy		35.00 /cy	1,423	2,765	3,355
Formwork S.O.G. Edge Form > 1' Circular Slab	3100.120	109.00 sf	33.00 /mh	1,799	2.00 /sf	229		/sf		/sf		2,027	2,819
Blockouts in Concrete	3150.194	12.00 sf	33.00 /mh	139	2.00 /sf	24		/sf		/sf		163	224
CJ Prep Walls	3350.170	300.00 sf	33.00 /mh	990	0.15 /sf	45		/sf		/sf		1,035	1,471
XYPEX Admix	3310.100	38.00 cy	/cy		90.00 /cy	3,659		/cy		/cy		3,659	3,659
0309- Grit Chamber Walls 2 ea (10S401)													
Pump Place Walls	3310.260	108.00 cy	33.00 /mh	3,241	/cy			/cy		35.00 /cy	4,045	7,286	8,712
4500 psi Concrete	3310.100	108.00 cy	/cy		198.00 /cy	22,881		/cy		/cy		22,881	22,881
Wall Placement Count	3310.360	2.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Radius Gang Forms 16- >	3100.182	4,976.28 sf	33.00 /mh	27,917	6.00 /sf	31,351		/sf		/sf		59,268	71,551
CJ Prep Walls	3350.170	132.32 sf	33.00 /mh	109	0.15 /sf	20		/sf		/sf		129	177
Finish- Top of Wall	3350.110	132.32 sf	33.00 /mh	61	/sf			/sf		/sf		61	88
Liquid Curing Walls	3390.170	5,108.61 sf	33.00 /mh	169	0.06 /sf	307		/sf		/sf		475	549
Grind/Patch Walls	3350.130	4,976.28 sf	33.00 /mh	1,971	0.07 /sf	348		/sf		/sf		2,319	3,186
Blockouts in Concrete	3150.194	64.00 sf	33.00 /mh	739	2.00 /sf	128		/sf		/sf		867	1,192
Waterstop 6" Flat	3510.610	112.00 lf	33.00 /mh	370	6.00 /lf	706		/lf		/lf		1,075	1,238
Rub Walls	3350.140	1,792.00 sf	33.00 /mh	2,957	0.25 /sf	448		/sf		/sf		3,405	4,706
Oil Wall Forms	3100.310	4,976.28 sf	/sf		0.02 /sf	100		/sf		/sf		100	100
Nails and Hardware	3150.200	4,976.28 sf	/sf		0.04 /sf	199		/sf		/sf		199	199
Form Ties 14"	3150.632	1,244.07 ea	/ea		2.70 /ea	3,359		/ea		/ea		3,359	3,359
Dimension Lumber	3150.200	4,976.28 sf	/sf		0.50 /sf	2,488		/sf		/sf		2,488	2,488
Rebar Formsavers # 5	3210.108	76.00 ea	33.00 /mh	828	28.00 /ea	2,128		/ea		/ea		2,956	3,320
XYPEX Admix	3310.100	108.00 cy	/cy		90.00 /cy	10,400		/cy		/cy		10,400	10,400
0310- Headworks Equipment and Electrical Pads													
Equipment Pad Form 6"	3100.164	84.00 sf	33.00 /mh	970	2.00 /sf	176		/sf		/sf		1,147	1,573
Equipment Pad Form > 8"	3100.164	152.00 sf	33.00 /mh	1,756	2.00 /sf	319		/sf		/sf		2,075	2,847
Oil Equipment Pad Form	3100.310	236.00 sf	/sf		0.02 /sf	5		/sf		/sf		5	5
4500 psi Concrete	3310.100	10.48 cy	/cy		198.00 /cy	2,221		/cy		/cy		2,221	2,221
Other Placement Count	3310.360	14.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Buggy Place Equipment Pads	3310.300	10.48 cy	33.00 /mh	740	/cy			/cy		/cy		740	1,066
Liquid Curing Compounds	3390.170	406.00 sf	33.00 /mh	27	0.06 /sf	24		/sf		/sf		51	63
Finish- Hard Trowel	3350.110	406.00 sf	33.00 /mh	188	/sf			/sf		/sf		188	270
Chamfer	3150.625	296.00 lf	33.00 /mh	488	0.25 /lf	78		/lf		/lf		566	781
Misc. Pad Rebar	3210.104	1.05 tn	33.00 /mh	1,385	1,600.00 /tn	1,762		/tn		/tn		3,146	3,756
Nails and Hardware	3150.200	236.00 sf	/sf		0.04 /sf	9		/sf		/sf		9	9
Drill and Epoxy #4	3210.101	348.00 ea	33.00 /mh	2,871	5.00 /ea	1,827		/ea		/ea		4,698	5,961
0330 4- Pipe Encasement Grit Bypass													
Other Placement Count	3310.360	1.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Formwork Pipe Encasement	3100.108	176.00 sf	33.00 /mh	1,452	2.00 /sf	370		/sf		/sf		1,822	2,460
Place Pipe Encasement	3310.195	9.00 cy	33.00 /mh	318	175.00 /cy	1,685		/cy		/cy		2,003	2,143
Nails and Hardware	3150.200	176.00 sf	/sf		0.04 /sf	7		/sf		/sf		7	7
Form Ties Specialty	3150.632	11.00 ea	33.00 /mh	73	5.00 /ea	55		/ea		/ea		128	160
Dimension Lumber	3150.200	176.00 sf	/sf		0.50 /sf	88		/sf		/sf		88	88
Oil SOG Form	3100.310	176.00 sf	/sf		0.02 /sf	4		/sf		/sf		4	4
Finish- Rough	3350.110	72.00 sf	33.00 /mh	21	0.01 /sf	0		/sf		/sf		22	31
Liquid Curing Compounds	3390.170	72.00 sf	33.00 /mh	5	0.06 /sf	4		/sf		/sf		9	11
Pipe Tie Downs (Large)	3150.200	4.00 ea	33.00 /mh	660	200.00 /ea	800		/ea		/ea		1,460	1,750
Rebar Supply	3200.980	1.13 tn	/tn		1,600.00 /tn	1,800		/tn		/tn		1,800	1,800
Rebar Install Self	3200.980	1.13 tn	33.00 /mh	1,114	/tn			/tn		/tn		1,114	1,604
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.25 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	950	1,800.00 /Mnth	450	1,400	1,400
0330 4- Pipe Encasement Grit Influent 2ea													
Formwork Pipe Encasement	3100.108	231.00 sf	33.00 /mh	1,906	2.00 /sf	485		/sf		/sf		2,391	3,229
Place Pipe Encasement	3310.195	16.00 cy	33.00 /mh	565	175.00 /cy	2,996		/cy		/cy		3,561	3,810
Nails and Hardware	3150.200	231.00 sf	/sf		0.04 /sf	9		/sf		/sf		9	9
Form Ties Specialty	3150.632	18.00 ea	33.00 /mh	119	5.00 /ea	90		/ea		/ea		209	261
Pipe Tie Downs (Medium)	3150.200	6.00 ea	33.00 /mh	990	150.00 /ea	900		/ea		/ea		1,890	2,326
Dimension Lumber	3150.200	231.00 sf	/sf		0.50 /sf	116		/sf		/sf		116	116
Oil SOG Form	3100.310	231.00 sf	/sf		0.02 /sf	5		/sf		/sf		5	5
Finish- Rough	3350.110	91.00 sf	33.00 /mh	27	0.01 /sf	1		/sf		/sf		28	39
Liquid Curing Compounds	3390.170	91.00 sf	33.00 /mh	6	0.06 /sf	5		/sf		/sf		11	14
Rebar Install Self	3200.980	1.60 tn	33.00 /mh	1,584	/tn			/tn		/tn		1,584	2,281
Rebar Supply	3200.980	1.60 tn	/tn		1,600.00 /tn	2,560		/tn		/tn		2,560	2,560
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.25 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	950	1,800.00 /Mnth	450	1,400	1,400
Form Rectangle Columns	3100.110	120.00 sf	33.00 /mh	1,386	2.00 /sf	252		/sf		/sf		1,638	2,248
0330 4- Headworks Effluent Pipe into Channel 2 ea													
Formwork Pipe Encasement	3100.108	300.00 sf	33.00 /mh	2,475	2.00 /sf	630		/sf		/sf		3,105	4,194
Place Pipe Encasement	3310.195	14.88 cy	33.00 /mh	525	175.00 /cy	2,787		/cy		/cy		3,312	3,543
Nails and Hardware	3150.200	300.00 sf	/sf		0.04 /sf	12		/sf		/sf		12	12

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
0330 4- Headworks Effluent Pipe into Channel 2 ea													
Form Ties Specialty	3150.632	14.00 ea	33.00 /mh	92	5.00 /ea	70		/ea		/ea		162	203
Pipe Tie Downs (Large)	3150.200	8.00 ea	33.00 /mh	1,320	200.00 /ea	1,600		/ea		/ea		2,920	3,501
Dimension Lumber	3150.200	300.00 sf	/sf		0.50 /sf	150		/sf		/sf		150	150
Oil SOG Form	3100.310	300.00 sf	/sf		0.02 /sf	6		/sf		/sf		6	6
Finish- Rough	3350.110	100.00 sf	33.00 /mh	30	0.01 /sf	1		/sf		/sf		30	43
Liquid Curing Compounds	3390.170	100.00 sf	33.00 /mh	7	0.06 /sf	6		/sf		/sf		13	16
Rebar Supply	3200.980	1.48 tn	/tn		1,600.00 /tn	2,368		/tn		/tn		2,368	2,368
Rebar Install Self	3200.980	1.48 tn	33.00 /mh	1,465	/tn			/tn		/tn		1,465	2,110
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.25 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	950	1,800.00 /Mnth	450	1,400	1,400
0330 4- Pipe Encasement Grit Pump Influent Line Chamber 1													
Formwork Pipe Encasement	3100.108	212.50 sf	33.00 /mh	1,753	2.00 /sf	446		/sf		/sf		2,199	2,971
Place Pipe Encasement	3310.195	14.00 cy	33.00 /mh	494	175.00 /cy	2,622		/cy		/cy		3,116	3,333
Nails and Hardware	3150.200	212.50 sf	/sf		0.04 /sf	9		/sf		/sf		9	9
Form Ties Specialty	3150.632	22.00 ea	33.00 /mh	145	5.00 /ea	110		/ea		/ea		255	319
Pipe Tie Downs (Small)	3150.200	11.00 ea	33.00 /mh	1,452	100.00 /ea	1,100		/ea		/ea		2,552	3,191
Dimension Lumber	3150.200	212.50 sf	/sf		0.50 /sf	106		/sf		/sf		106	106
Oil SOG Form	3100.310	212.50 sf	/sf		0.02 /sf	4		/sf		/sf		4	4
Finish- Rough	3350.110	100.00 sf	33.00 /mh	30	0.01 /sf	1		/sf		/sf		30	43
Liquid Curing Compounds	3390.170	100.00 sf	33.00 /mh	7	0.06 /sf	6		/sf		/sf		13	16
Rebar Install Self	3200.980	1.40 tn	33.00 /mh	1,386	/tn			/tn		/tn		1,386	1,996
Rebar Supply	3200.980	1.40 tn	/tn		1,600.00 /tn	2,240		/tn		/tn		2,240	2,240
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.25 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	950	1,800.00 /Mnth	450	1,400	1,400
Form Rectangle Columns	3100.110	120.00 sf	33.00 /mh	1,386	2.00 /sf	252		/sf		/sf		1,638	2,248
0330 4- Pipe Encasement Grit Pump Influent Future Chamber													
Formwork Pipe Encasement	3100.108	262.50 sf	33.00 /mh	2,166	2.00 /sf	551		/sf		/sf		2,717	3,670
Place Pipe Encasement	3310.195	16.00 cy	33.00 /mh	565	175.00 /cy	2,996		/cy		/cy		3,561	3,810
Nails and Hardware	3150.200	262.50 sf	/sf		0.04 /sf	11		/sf		/sf		11	11
Form Ties Specialty	3150.632	27.00 ea	33.00 /mh	178	5.00 /ea	135		/ea		/ea		313	392
Pipe Tie Downs (Small)	3150.200	14.00 ea	33.00 /mh	1,848	100.00 /ea	1,400		/ea		/ea		3,248	4,061
Dimension Lumber	3150.200	262.50 sf	/sf		0.50 /sf	131		/sf		/sf		131	131
Oil SOG Form	3100.310	262.50 sf	/sf		0.02 /sf	5		/sf		/sf		5	5
Finish- Rough	3350.110	125.00 sf	33.00 /mh	37	0.01 /sf	1		/sf		/sf		38	54
Liquid Curing Compounds	3390.170	125.00 sf	33.00 /mh	8	0.06 /sf	8		/sf		/sf		16	19
Rebar Supply	3200.980	1.60 tn	/tn		1,600.00 /tn	2,560		/tn		/tn		2,560	2,560
Rebar Install Self	3200.980	1.60 tn	33.00 /mh	1,584	/tn			/tn		/tn		1,584	2,281
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.25 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	950	1,800.00 /Mnth	450	1,400	1,400
Form Rectangle Columns	3100.110	120.00 sf	33.00 /mh	1,386	2.00 /sf	252		/sf		/sf		1,638	2,248
0330 4- Grit Clarifier Drain Pipe Encasement													
Formwork Pipe Encasement	3100.108	246.00 sf	33.00 /mh	2,030	2.00 /sf	517		/sf		/sf		2,546	3,439
Place Pipe Encasement	3310.195	11.56 cy	33.00 /mh	408	175.00 /cy	2,165		/cy		/cy		2,573	2,753
Nails and Hardware	3150.200	246.00 sf	/sf		0.04 /sf	10		/sf		/sf		10	10
Form Ties Specialty	3150.632	21.00 ea	33.00 /mh	139	5.00 /ea	105		/ea		/ea		244	305
Pipe Tie Downs (Small)	3150.200	11.00 ea	33.00 /mh	1,452	100.00 /ea	1,100		/ea		/ea		2,552	3,191
Dimension Lumber	3150.200	246.00 sf	/sf		0.50 /sf	123		/sf		/sf		123	123
Oil SOG Form	3100.310	246.00 sf	/sf		0.02 /sf	5		/sf		/sf		5	5
Finish- Rough	3350.110	114.00 sf	33.00 /mh	34	0.01 /sf	1		/sf		/sf		35	49
Liquid Curing Compounds	3390.170	114.00 sf	33.00 /mh	8	0.06 /sf	7		/sf		/sf		14	18
Rebar Supply	3200.980	1.20 tn	/tn		1,600.00 /tn	1,920		/tn		/tn		1,920	1,920
Rebar Install Self	3200.980	1.20 tn	33.00 /mh	1,188	/tn			/tn		/tn		1,188	1,711
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.25 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	950	1,800.00 /Mnth	450	1,400	1,400
0330 4- Headworks Channel Influent Pipe Encase													
Formwork Pipe Encasement	3100.108	490.50 sf	33.00 /mh	4,047	2.00 /sf	1,030		/sf		/sf		5,077	6,857
Place Pipe Encasement	3310.195	28.41 cy	33.00 /mh	1,003	175.00 /cy	5,320		/cy		/cy		6,323	6,764
Nails and Hardware	3150.200	490.50 sf	/sf		0.04 /sf	20		/sf		/sf		20	20
Form Ties Specialty	3150.632	27.00 ea	33.00 /mh	178	5.00 /ea	135		/ea		/ea		313	392
Pipe Tie Downs (Large)	3150.200	10.00 ea	33.00 /mh	1,650	200.00 /ea	2,000		/ea		/ea		3,650	4,376
Dimension Lumber	3150.200	490.50 sf	/sf		0.50 /sf	245		/sf		/sf		245	245
Oil SOG Form	3100.310	490.50 sf	/sf		0.02 /sf	10		/sf		/sf		10	10
Finish- Rough	3350.110	225.00 sf	33.00 /mh	67	0.01 /sf	1		/sf		/sf		68	98
Liquid Curing Compounds	3390.170	225.00 sf	33.00 /mh	15	0.06 /sf	14		/sf		/sf		28	35
Rebar Supply	3200.980	2.80 tn	/tn		1,600.00 /tn	4,480		/tn		/tn		4,480	4,480
Rebar Install Self	3200.980	2.80 tn	33.00 /mh	2,772	/tn			/tn		/tn		2,772	3,992
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.50 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	1,900	1,800.00 /Mnth	900	2,800	2,800
0330 4- Water line, NPW line and PE intake tube Encasement (10M403)													
Formwork Pipe Encasement	3100.108	250.00 sf	33.00 /mh	2,063	2.00 /sf	525		/sf		/sf		2,588	3,495
Place Pipe Encasement	3310.195	9.19 cy	33.00 /mh	324	175.00 /cy	1,720		/cy		/cy		2,045	2,187
Nails and Hardware	3150.200	250.00 sf	/sf		0.04 /sf	10		/sf		/sf		10	10
Form Ties Specialty	3150.632	28.00 ea	33.00 /mh	185	5.00 /ea	140		/ea		/ea		325	406
Pipe Tie Downs (Small)	3150.200	16.00 ea	33.00 /mh	2,112	100.00 /ea	1,600		/ea		/ea		3,712	4,641
Dimension Lumber	3150.200	250.00 sf	/sf		0.50 /sf	125		/sf		/sf		125	125
Oil SOG Form	3100.310	250.00 sf	/sf		0.02 /sf	5		/sf		/sf		5	5
Finish- Rough	3350.110	100.00 sf	33.00 /mh	30	0.01 /sf	1		/sf		/sf		30	43
Liquid Curing Compounds	3390.170	100.00 sf	33.00 /mh	7	0.06 /sf	6		/sf		/sf		13	15
Rebar Supply	3200.980	0.90 tn	/tn		1,600.00 /tn	1,440		/tn		/tn		1,440	1,440
Rebar Install Self	3200.980	0.90 tn	33.00 /mh	891	/tn			/tn		/tn		891	1,283
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.20 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	760	1,800.00 /Mnth	360	1,120	1,120
Form Rectangle Columns	3100.110	150.00 sf	33.00 /mh	1,733	2.00 /sf	315		/sf		/sf		2,048	2,810
0330 4- In Plant Lift Station Pipe Encasement Under Headworks (10M401)													
Formwork Pipe Encasement	3100.108	108.00 sf	33.00 /mh	891	2.00 /sf	227		/sf		/sf		1,118	1,510
Place Pipe Encasement	3310.195	9.00 cy	33.00 /mh	318	175.00 /cy	1,685		/cy		/cy		2,003	2,143
Nails and Hardware	3150.200	108.00 sf	/sf		0.04 /sf	4		/sf		/sf		4	4

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
0330 4- In Plant Lift Station Pipe Encasement Under Headworks (10M401)													
Form Ties Specialty	3150.632	10.00 ea	33.00 /mh	66	5.00 /ea	50		/ea		/ea		116	145
Pipe Tie Downs (Small)	3150.200	5.00 ea	33.00 /mh	660	100.00 /ea	500		/ea		/ea		1,160	1,450
Dimension Lumber	3150.200	108.00 sf	/sf		0.50 /sf	54		/sf		/sf		54	54
Oil SOG Form	3100.310	108.00 sf	/sf		0.02 /sf	2		/sf		/sf		2	2
Finish- Rough	3350.110	45.00 sf	33.00 /mh	13	0.01 /sf	0		/sf		/sf		14	20
Liquid Curing Compounds	3390.170	45.00 sf	33.00 /mh	3	0.06 /sf	3		/sf		/sf		6	7
Rebar Supply	3200.980	0.90 tn	/tn		1,600.00 /tn	1,440		/tn		/tn		1,440	1,440
Rebar Install Self	3200.980	0.90 tn	33.00 /mh	891	/tn			/tn		/tn		891	1,283
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.25 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	950	1,800.00 /Mnth	450	1,400	1,400
Form Rectangle Columns	3100.110	120.00 sf	33.00 /mh	1,386	2.00 /sf	252		/sf		/sf		1,638	2,248
11 EQB EQ Basin													
Concrete Concrete													
019-100 Water Test EQ Basin													
Water Test Basins	3995.200	1.00 ea	33.00 /mh	1,056	/ea			/ea		/ea		1,056	1,521
Pumps and Hoses	3995.200	1.00 ls	/ls		1,500.00 /ls	1,500		/ls		/ls		1,500	1,500
Temporary Bulkheads	3995.200	3.00 ls	33.00 /mh	396	250.00 /ls	750		/ls		/ls		1,146	1,320
Urethane Injection System	3995.200	1.00 ls	33.00 /mh	7,920	3,500.00 /ls	3,500		1,000.00 /ls	1,000	/ls		12,420	15,905
0302- EQ Basin Slab (7 ea Pours)													
4500 psi Concrete	3310.100	365.00 cy	/cy		198.00 /cy	77,329		/cy		/cy		77,329	77,329
Slab Placement Count	3310.360	7.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Pump Place Slab on Grade	3310.230	365.00 cy	33.00 /mh	10,955	/cy			/cy		35.00 /cy	13,669	24,624	29,444
Formwork S.O.G. Edge Form > 1'	3100.120	446.00 sf	33.00 /mh	5,151	2.00 /sf	937		/sf		/sf		6,088	8,354
Formwork S.O.G. Const Joints > 1'	3100.120	908.00 sf	33.00 /mh	13,783	2.00 /sf	1,907		/sf		/sf		15,690	21,755
CJ Prep Slab	3350.170	908.00 sf	33.00 /mh	749	0.15 /sf	136		/sf		/sf		885	1,215
Finegrade Below Concrete	3150.650	6,018.74 sf	33.00 /mh	3,972	/sf			/sf		/sf		3,972	5,720
Finish- Hard Trowel	3350.110	6,018.74 sf	33.00 /mh	2,781	/sf			/sf		/sf		2,781	4,004
Blockouts in Concrete	3150.194	96.00 sf	33.00 /mh	1,109	2.00 /sf	192		/sf		/sf		1,301	1,789
Waterstop 6" Flat	3510.610	774.00 lf	33.00 /mh	2,554	6.00 /lf	4,876		/lf		/lf		7,430	8,554
Keyway 4"	3150.620	427.00 lf	33.00 /mh	2,818	1.00 /lf	448		/lf		/lf		3,267	4,507
Oil SOG Form	3100.310	1,496.98 sf	/sf		0.02 /sf	30		/sf		/sf		30	30
Nails and Hardware	3150.200	801.32 sf	/sf		0.04 /sf	32		/sf		/sf		32	32
Dimension Lumber	3150.200	801.32 sf	/sf		0.50 /sf	401		/sf		/sf		401	401
Waterstop Fitting - Flat Cross	3510.610	8.00 ea	33.00 /mh	264	102.00 /ea	816		/ea		/ea		1,080	1,196
Waterstop Fitting - Vertical Tee	3510.610	24.00 ea	33.00 /mh	792	71.00 /ea	1,704		/ea		/ea		2,496	2,844
Waterstop Fitting - Flat L	3510.610	4.00 ea	33.00 /mh	132	49.00 /ea	196		/ea		/ea		328	386
Xypex Admixture	3310.100	391.00 cy	/cy		90.00 /cy	37,653		/cy		/cy		37,653	37,653
0302- Middle Slab Under EQ Basin Trench													
4500 psi Concrete	3310.100	14.26 cy	/cy		198.00 /cy	3,021		/cy		/cy		3,021	3,021
Pump Place Slab on Grade	3310.230	14.26 cy	33.00 /mh	503	/cy			/cy		35.00 /cy	534	1,037	1,259
Formwork S.O.G. Edge Form < 1'	3100.120	124.00 sf	33.00 /mh	1,432	2.00 /sf	260		/sf		/sf		1,693	2,323
Formwork S.O.G. Const Joints < 1'	3100.120	7.00 sf	33.00 /mh	106	2.00 /sf	15		/sf		/sf		121	168
CJ Prep Slab	3350.170	7.00 sf	33.00 /mh	6	0.15 /sf	1		/sf		/sf		7	9
Finegrade Below Concrete	3150.650	385.00 sf	33.00 /mh	254	/sf			/sf		/sf		254	366
Finish- Hard Trowel	3350.110	385.00 sf	33.00 /mh	178	/sf			/sf		/sf		178	256
Liquid Curing Compounds	3390.170	385.00 sf	33.00 /mh	25	0.06 /sf	23		/sf		/sf		49	60
Waterstop 6" Flat	3510.610	131.00 lf	33.00 /mh	432	6.00 /lf	825		/lf		/lf		1,258	1,448
Oil SOG Form	3100.310	131.00 sf	/sf		0.02 /sf	3		/sf		/sf		3	3
Nails and Hardware	3150.200	124.00 sf	/sf		0.04 /sf	5		/sf		/sf		5	5
Dimension Lumber	3150.200	124.00 sf	/sf		0.50 /sf	62		/sf		/sf		62	62
Xypex Admix	3310.100	14.26 cy	/cy		90.00 /cy	1,373		/cy		/cy		1,373	1,373
0302- EQ Basin Stair Foundation Beams (3ea stairs)													
4500 psi Concrete	3310.100	10.00 cy	/cy		198.00 /cy	2,119		/cy		/cy		2,119	2,119
Pump Place Slab on Grade	3310.230	10.00 cy	33.00 /mh	1,059	/cy			/cy		35.00 /cy	375	1,434	1,900
Formwork S.O.G. Edge Form > 1'	3100.120	378.00 sf	33.00 /mh	6,237	2.00 /sf	794		/sf		/sf		7,031	9,775
Finegrade Below Concrete	3150.650	90.00 sf	33.00 /mh	42	/sf			/sf		/sf		42	60
Finish- Hard Trowel	3350.110	90.00 sf	33.00 /mh	42	/sf			/sf		/sf		42	60
Liquid Curing Compounds	3390.170	90.00 sf	33.00 /mh	6	0.06 /sf	5		/sf		/sf		11	14
Oil SOG Form	3100.310	378.00 sf	/sf		0.02 /sf	8		/sf		/sf		8	8
Nails and Hardware	3150.200	378.00 sf	/sf		0.04 /sf	15		/sf		/sf		15	15
Dimension Lumber	3150.200	378.00 sf	/sf		0.50 /sf	189		/sf		/sf		189	189
0302- EQ Basin Stair Sidewalks (3ea 6'X6')													
4500 psi Concrete	3310.100	2.68 cy	/cy		198.00 /cy	568		/cy		/cy		568	568
Truck Place Slab on Grade	3310.230	2.68 cy	33.00 /mh	189	/cy			/cy		/cy		189	273
Formwork S.O.G. Edge Form < 1'	3100.120	48.24 sf	33.00 /mh	557	2.00 /sf	101		/sf		/sf		658	904
Finegrade Below Concrete	3150.650	108.00 sf	33.00 /mh	50	/sf			/sf		/sf		50	72
Finish- Hard Trowel	3350.110	108.00 sf	33.00 /mh	50	/sf			/sf		/sf		50	72
Liquid Curing Compounds	3390.170	108.00 sf	33.00 /mh	7	0.06 /sf	6		/sf		/sf		14	17
Expansion Joint	3150.720	12.06 sf	33.00 /mh	40	12.00 /sf	152		/sf		/sf		192	209
Expansion Joint Sealant	3150.720	18.00 lf	33.00 /mh	59	2.00 /lf	38		/lf		/lf		97	123
Oil SOG Form	3100.310	48.24 sf	/sf		0.02 /sf	1		/sf		/sf		1	1
Nails and Hardware	3150.200	48.24 sf	/sf		0.04 /sf	2		/sf		/sf		2	2
Dimension Lumber	3150.200	48.24 sf	/sf		0.50 /sf	24		/sf		/sf		24	24
SOG Rebar	3210.104	0.27 tn	33.00 /mh	354	1,600.00 /tn	450		/tn		/tn		803	959
0302-B Grout Topping EQ Basin													
Grout Topping 3/8" Mix	3310.100	44.72 cy	/cy		198.00 /cy	9,475		/cy		/cy		9,475	9,475
Pump Place Slab on Grade	3310.230	44.72 cy	33.00 /mh	3,158	/cy			/cy		35.00 /cy	1,675	4,833	6,223
Formwork S.O.G. Edge Form < 1'	3100.120	263.00 sf	33.00 /mh	3,038	2.00 /sf	552		/sf		/sf		3,590	4,927
Finish- Hard Trowel	3350.110	2,355.00 sf	33.00 /mh	1,088	/sf			/sf		/sf		1,088	1,567
Water Cure	3390.170	2,355.00 sf	33.00 /mh	155	0.10 /sf	236		/sf		/sf		391	459
Oil SOG Form	3100.310	263.00 sf	/sf		0.02 /sf	5		/sf		/sf		5	5
Nails and Hardware	3150.200	263.00 sf	/sf		0.04 /sf	11		/sf		/sf		11	11

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
0302-B Grout Topping EQ Basin													
Dimension Lumber	3150.200	263.00 sf	/sf		0.50 /sf	132		/sf		/sf		132	132
CJ Prep Slab	3350.170	2,355.00 sf	33.00 /mh	1,943	0.15 /sf	353		/sf		/sf		2,296	3,151
Xypex Admix	3310.100	44.72 cy	/cy		90.00 /cy	4,307		/cy		/cy		4,307	4,307
0303- EQ Basin Walls													
Pump Place Walls	3310.260	490.67 cy	33.00 /mh	14,727	/cy			/cy		35.00 /cy	18,375	33,102	39,582
4500 psi Concrete	3310.100	490.67 cy	/cy		198.00 /cy	103,953		/cy		/cy		103,953	103,953
Wall Placement Count	3310.360	8.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Gang Form System 16'->	3100.180	13,248.00 sf	33.00 /mh	56,834	2.75 /sf	38,254		/sf		/sf		95,088	120,094
Wall Bulkhead Forms	3150.192	528.00 sf	33.00 /mh	8,015	2.00 /sf	1,109		/sf		/sf		9,124	12,650
CJ Prep Walls	3350.170	1,080.00 sf	33.00 /mh	891	0.15 /sf	162		/sf		/sf		1,053	1,445
Finish- Top of Wall	3350.110	552.00 sf	33.00 /mh	255	/sf			/sf		/sf		255	367
Liquid Curing Walls	3390.170	13,800.00 sf	33.00 /mh	455	0.06 /sf	828		/sf		/sf		1,283	1,484
Grind/Patch Walls	3350.130	13,248.00 sf	33.00 /mh	5,246	0.07 /sf	927		/sf		/sf		6,174	8,482
Blockouts in Concrete	3150.194	192.00 sf	33.00 /mh	2,218	2.00 /sf	384		/sf		/sf		2,602	3,577
Waterstop 6" Flat	3510.610	264.00 lf	33.00 /mh	871	6.00 /lf	1,663		/lf		/lf		2,534	2,918
Chamfer 3/4"	3150.625	552.00 lf	33.00 /mh	911	0.25 /lf	145		/lf		/lf		1,056	1,456
Rub Walls	3350.140	5,520.00 sf	33.00 /mh	9,108	0.25 /sf	1,380		/sf		/sf		10,488	14,496
Oil Wall Forms	3100.310	13,248.00 sf	/sf		0.02 /sf	265		/sf		/sf		265	265
Nails and Hardware	3150.200	13,248.00 sf	/sf		0.04 /sf	530		/sf		/sf		530	530
Form Ties 24"	3150.632	3,312.00 ea	/ea		3.10 /ea	10,267		/ea		/ea		10,267	10,267
Dimension Lumber	3150.200	13,248.00 sf	/sf		0.50 /sf	6,624		/sf		/sf		6,624	6,624
Rebar Templates	3200.980	276.00 lf	33.00 /mh	455	0.50 /lf	138		/lf		/lf		593	794
Wall Forms bottom of wall slope for gangs	3100.181	542.00 sf	33.00 /mh	8,943	2.00 /sf	1,138		/sf		/sf		10,081	14,016
XYPEX Amix	3310.100	490.67 cy	/cy		90.00 /cy	47,251		/cy		/cy		47,251	47,251
20 PBS Process Basin													
Concrete Concrete													
019-100 Water Process Basin													
Water Test Basins	3995.200	3.00 ea	33.00 /mh	3,168	/ea			/ea		/ea		3,168	4,562
Pumps	3995.200	3.00 ea	/ea		1,000.00 /ea	3,000		/ea		/ea		3,000	3,000
Temporary Bulkheads	3995.200	12.00 ls	33.00 /mh	1,584	250.00 /ls	3,000		/ls		/ls		4,584	5,281
Urethane Injection System	3995.200	3.00 ea	33.00 /mh	24,750	3,500.00 /ea	10,500		1,000.00 /ea	3,000	/ea		38,250	49,140
0302- Process Basin Base Slab													
4500 psi Concrete	3310.100	1,319.00 cy	/cy		198.00 /cy	279,443		/cy		/cy		279,443	279,443
Slab Placement Count	3310.360	12.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Pump Place Slab on Grade	3310.230	1,319.00 cy	33.00 /mh	37,259	/cy			/cy		35.00 /cy	49,397	86,656	103,050
Formwork S.O.G. Edge Form > 1'	3100.120	1,020.00 sf	33.00 /mh	11,781	2.00 /sf	2,142		/sf		/sf		13,923	19,107
Formwork S.O.G. Const Joints > 1'	3100.120	1,574.00 sf	33.00 /mh	23,893	2.00 /sf	3,305		/sf		/sf		27,199	37,712
CJ Prep Slab	3350.170	1,574.00 sf	33.00 /mh	1,299	0.15 /sf	236		/sf		/sf		1,535	2,106
Finegrade Below Concrete	3150.650	19,541.72 sf	33.00 /mh	12,898	/sf			/sf		/sf		12,898	18,572
Finish- Hard Trowel	3350.110	19,541.72 sf	33.00 /mh	9,028	/sf			/sf		/sf		9,028	13,001
Liquid Curing Compounds	3390.170	19,541.72 sf	33.00 /mh	1,290	0.06 /sf	1,173		/sf		/sf		2,462	3,030
Waterstop 6" Flat	3510.610	1,847.00 lf	33.00 /mh	6,095	6.00 /lf	11,636		/lf		/lf		17,731	20,413
Keyway 4"	3150.620	1,160.00 lf	33.00 /mh	7,656	1.00 /lf	1,218		/lf		/lf		8,874	12,243
Oil SOG Form	3100.310	2,514.68 sf	/sf		0.02 /sf	50		/sf		/sf		50	50
Nails and Hardware	3150.200	1,140.68 sf	/sf		0.04 /sf	46		/sf		/sf		46	46
Dimension Lumber	3150.200	1,140.68 sf	/sf		0.50 /sf	570		/sf		/sf		570	570
Waterstop Fitting - Flat Tee	3510.610	58.00 ea	33.00 /mh	1,914	71.00 /ea	4,118		/ea		/ea		6,032	6,874
Waterstop Fitting - Vertical Tee	3510.610	8.00 ea	33.00 /mh	264	71.00 /ea	568		/ea		/ea		832	948
Waterstop Fitting - Flat Cross	3510.610	8.00 ea	33.00 /mh	264	102.00 /ea	816		/ea		/ea		1,080	1,196
Waterstop Fitting - Vertical Cross	3510.610	6.00 ea	33.00 /mh	198	102.00 /ea	612		/ea		/ea		810	897
Waterstop Fitting - Flat L	3510.610	4.00 ea	33.00 /mh	132	49.00 /ea	196		/ea		/ea		328	386
XYPEX Admix	3310.100	1,293.00 cy	/cy		90.00 /cy	124,516		/cy		/cy		124,516	124,516
0302- Process Basin Influent Box Base Slab													
4500 psi Concrete	3310.100	34.44 cy	/cy		198.00 /cy	7,297		/cy		/cy		7,297	7,297
Slab Placement Count	3310.360	1.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Pump Place Slab on Grade	3310.230	34.44 cy	33.00 /mh	1,459	/cy			/cy		35.00 /cy	1,290	2,749	3,392
Formwork S.O.G. Edge Form > 1'	3100.120	151.90 sf	33.00 /mh	1,754	2.00 /sf	319		/sf		/sf		2,073	2,845
Finegrade Below Concrete	3150.650	600.00 sf	33.00 /mh	277	/sf			/sf		/sf		277	399
Finish- Hard Trowel	3350.110	600.00 sf	33.00 /mh	277	/sf			/sf		/sf		277	399
Liquid Curing Compounds	3390.170	600.00 sf	33.00 /mh	40	0.06 /sf	36		/sf		/sf		76	93
Waterstop 6" Flat	3510.610	175.00 lf	33.00 /mh	578	6.00 /lf	1,103		/lf		/lf		1,680	1,934
Oil SOG Form	3100.310	151.90 sf	/sf		0.02 /sf	3		/sf		/sf		3	3
Nails and Hardware	3150.200	151.90 sf	/sf		0.04 /sf	6		/sf		/sf		6	6
Dimension Lumber	3150.200	151.90 sf	/sf		0.50 /sf	76		/sf		/sf		76	76
Waterstop Fitting - Vertical Cross	3510.610	4.00 ea	33.00 /mh	132	102.00 /ea	408		/ea		/ea		540	598
Waterstop Fitting - Flat Tee	3510.610	6.00 ea	33.00 /mh	198	71.00 /ea	426		/ea		/ea		624	711
Waterstop Fitting - Vertical Tee	3510.610	6.00 ea	33.00 /mh	198	71.00 /ea	426		/ea		/ea		624	711
Waterstop Fitting - Flat L	3510.610	4.00 ea	33.00 /mh	132	49.00 /ea	196		/ea		/ea		328	386
XYPEX Admix	3310.100	34.44 cy	/cy		90.00 /cy	3,317		/cy		/cy		3,317	3,317
0302- Process Building Effluent Box Slab													
4500 psi Concrete	3310.100	29.04 cy	/cy		198.00 /cy	6,152		/cy		/cy		6,152	6,152
Slab Placement Count	3310.360	1.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Pump Place Slab on Grade	3310.230	29.04 cy	33.00 /mh	1,230	/cy			/cy		35.00 /cy	1,087	2,318	2,859
Formwork S.O.G. Edge Form > 1'	3100.120	248.50 sf	33.00 /mh	2,870	2.00 /sf	522		/sf		/sf		3,392	4,655
Formwork S.O.G. Const Joints > 1'	3100.120	12.25 sf	33.00 /mh	186	2.00 /sf	26		/sf		/sf		212	294
CJ Prep Slab	3350.170	12.25 sf	33.00 /mh	10	0.15 /sf	2		/sf		/sf		12	16
Finegrade Below Concrete	3150.650	448.00 sf	33.00 /mh	207	/sf			/sf		/sf		207	298
Finish- Hard Trowel	3350.110	448.00 sf	33.00 /mh	207	/sf			/sf		/sf		207	298
Liquid Curing Compounds	3390.170	448.00 sf	33.00 /mh	30	0.06 /sf	27		/sf		/sf		56	69
Blockouts in Concrete	3150.194	16.00 sf	33.00 /mh	185	2.00 /sf	32		/sf		/sf		217	298
Waterstop 6" Flat	3510.610	87.00 lf	33.00 /mh	287	6.00 /lf	548		/lf		/lf		835	962

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
0302- Process Building Effluent Box Slab													
Keyway 4"	3150.620	7.00 lf	33.00 /mh	46	1.00 /lf	7		/lf		/lf		54	74
Oil SOG Form	3100.310	260.75 sf	/sf		0.02 /sf	5		/sf		/sf		5	5
Nails and Hardware	3150.200	248.50 sf	/sf		0.04 /sf	10		/sf		/sf		10	10
Dimension Lumber	3150.200	248.50 sf	/sf		0.50 /sf	124		/sf		/sf		124	124
Waterstop Fitting - Vertical Tee	3510.610	2.00 ea	33.00 /mh	66	71.00 /ea	142		/ea		/ea		208	237
Waterstop Fitting - Flat L	3510.610	2.00 ea	33.00 /mh	66	49.00 /ea	98		/ea		/ea		164	193
XYPEX Admix	3310.100	29.04 cy	/cy		90.00 /cy	2,796		/cy		/cy		2,796	2,796
0302- Process Basin Stair Foundations 6ea stairs (20S206)													
4500 psi Concrete	3310.100	14.44 cy	/cy		198.00 /cy	3,060		/cy		/cy		3,060	3,060
Slab Placement Count	3310.360	13.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Pump Place Slab on Grade	3310.230	14.44 cy	33.00 /mh	1,530	/cy			/cy		35.00 /cy	541	2,071	2,744
Formwork S.O.G. Edge Form > 1'	3100.120	546.00 sf	33.00 /mh	9,009	2.00 /sf	1,147		/sf		/sf		10,156	14,120
Finegrade Below Concrete	3150.650	130.00 sf	33.00 /mh	60	/sf			/sf		/sf		60	86
Finish- Hard Trowel	3350.110	130.00 sf	33.00 /mh	60	/sf			/sf		/sf		60	87
Liquid Curing Compounds	3390.170	130.00 sf	33.00 /mh	9	0.06 /sf	8		/sf		/sf		16	20
Chamfer 3/4"	3150.625	182.00 lf	33.00 /mh	300	0.25 /lf	48		/lf		/lf		348	480
Road Base Below Concrete	2305.300	4.82 cy	33.00 /mh	318	25.00 /ton	238		/cy		/cy		556	696
Oil SOG Form	3100.310	546.00 sf	/sf		0.02 /sf	11		/sf		/sf		11	11
Nails and Hardware	3150.200	546.00 sf	/sf		0.04 /sf	22		/sf		/sf		22	22
Dimension Lumber	3150.200	546.00 sf	/sf		0.50 /sf	273		/sf		/sf		273	273
0302- Process Basin Concrete landing below stairs 6ea 6'X6' pads													
4500 psi Concrete	3310.100	6.00 cy	/cy		198.00 /cy	1,271		/cy		/cy		1,271	1,271
Slab Placement Count	3310.360	6.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Truck Place Slab on Grade	3310.230	6.00 cy	33.00 /mh	424	/cy			/cy		/cy		424	610
Formwork S.O.G. Edge Form < 1'	3100.120	96.48 sf	33.00 /mh	1,114	2.00 /sf	203		/sf		/sf		1,317	1,807
Finegrade Below Concrete	3150.650	216.00 sf	33.00 /mh	100	/sf			/sf		/sf		100	144
Finish- Hard Trowel	3350.110	216.00 sf	33.00 /mh	100	/sf			/sf		/sf		100	144
Liquid Curing Compounds	3390.170	216.00 sf	33.00 /mh	14	0.06 /sf	13		/sf		/sf		27	33
Road Base Below Concrete	2305.300	8.00 cy	33.00 /mh	264	25.00 /ton	396		/cy		/cy		660	776
Oil SOG Form	3100.310	96.48 sf	/sf		0.02 /sf	2		/sf		/sf		2	2
Nails and Hardware	3150.200	96.48 sf	/sf		0.04 /sf	4		/sf		/sf		4	4
Dimension Lumber	3150.200	96.48 sf	/sf		0.50 /sf	48		/sf		/sf		48	48
Rebar Supply	3200.980	0.60 tn	/tn		1,600.00 /tn	960		/tn		/tn		960	960
Rebar Install Self	3200.980	0.60 tn	33.00 /mh	594	/tn			/tn		/tn		594	855
0303- Process Basin Walls													
Pump Place Walls	3310.260	1,581.72 cy	33.00 /mh	47,473	/cy			/cy		35.00 /cy	59,235	106,708	127,596
4500 psi Concrete	3310.100	1,581.72 cy	/cy		198.00 /cy	335,103		/cy		/cy		335,103	335,103
Wall Placement Count	3310.360	30.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Gang Form System 16'->	3100.180	51,040.00 sf	33.00 /mh	202,118	2.75 /sf	147,378		/sf		/sf		349,496	438,429
Wall Bulkhead Forms	3150.192	1,565.08 sf	33.00 /mh	23,758	2.00 /sf	3,287		/sf		/sf		27,045	37,498
CJ Prep Walls	3350.170	3,506.28 sf	33.00 /mh	2,893	0.15 /sf	526		/sf		/sf		3,419	4,691
Finish- Top of Wall	3350.110	1,941.20 sf	33.00 /mh	897	/sf			/sf		/sf		897	1,291
Liquid Curing Walls	3390.170	52,981.20 sf	33.00 /mh	1,748	0.06 /sf	3,179		/sf		/sf		4,927	5,697
Grind/Patch Walls	3350.130	51,040.00 sf	33.00 /mh	20,212	0.07 /sf	3,573		/sf		/sf		23,785	32,678
Blockouts in Concrete	3150.194	320.00 sf	33.00 /mh	3,696	2.00 /sf	640		/sf		/sf		4,336	5,962
Waterstop 6" Flat	3510.610	924.00 lf	33.00 /mh	3,049	6.00 /lf	5,821		/lf		/lf		8,870	10,212
Keyway 4"	3150.620	924.00 lf	33.00 /mh	6,098	1.00 /lf	970		/lf		/lf		7,069	9,752
Chamfer 3/4"	3150.625	1,790.00 lf	33.00 /mh	2,954	0.25 /lf	470		/lf		/lf		3,423	4,723
Rub Walls	3350.140	23,200.00 sf	33.00 /mh	38,280	0.25 /sf	5,800		/sf		/sf		44,080	60,923
Oil Wall Forms	3100.310	51,040.00 sf	/sf		0.02 /sf	1,021		/sf		/sf		1,021	1,021
Nails and Hardware	3150.200	51,040.00 sf	/sf		0.04 /sf	2,042		/sf		/sf		2,042	2,042
Form Ties 14"	3150.632	3,432.00 ea	/ea		2.70 /ea	9,266		/ea		/ea		9,266	9,266
Form Ties 20"	3150.632	2,288.00 ea	/ea		2.90 /ea	6,635		/ea		/ea		6,635	6,635
Form Ties 24"	3150.632	7,040.00 ea	/ea		3.10 /ea	21,824		/ea		/ea		21,824	21,824
Dimension Lumber	3150.200	51,040.00 sf	/sf		0.50 /sf	25,520		/sf		/sf		25,520	25,520
Rebar Templates	3200.980	1,160.00 lf	33.00 /mh	1,914	0.50 /lf	580		/lf		/lf		2,494	3,336
Greenstreak 609 waterstop	3510.610	164.00 lf	33.00 /mh	1,082	83.00 /lf	14,293		/lf		/lf		15,375	15,851
Rebar Formsavers # 6	3210.108	390.00 ea	33.00 /mh	6,435	39.00 /ea	15,210		/ea		/ea		21,645	24,476
Keyway 2x10"	3150.620	164.00 lf	33.00 /mh	1,082	3.00 /lf	517		/lf		/lf		1,599	2,075
Chamfer 2' under blockouts	3150.625	16.00 lf	33.00 /mh	528	3.00 /lf	50		/lf		/lf		578	811
XYPEX Admix	3310.100	1,581.72 cy	/cy		90.00 /cy	152,319		/cy		/cy		152,319	152,319
0303- Process Basin Influent Box Walls													
Pump Place Walls	3310.260	62.22 cy	33.00 /mh	2,636	/cy			/cy		35.00 /cy	2,330	4,967	6,127
4500 psi Concrete	3310.100	62.22 cy	/cy		198.00 /cy	13,182		/cy		/cy		13,182	13,182
Wall Placement Count	3310.360	5.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Gang Form System 8-12'	3100.180	3,360.00 sf	33.00 /mh	19,958	2.75 /sf	9,702		/sf		/sf		29,660	38,442
Wall Bulkhead Forms	3150.192	96.00 sf	33.00 /mh	1,457	2.00 /sf	202		/sf		/sf		1,659	2,300
CJ Prep Walls	3350.170	236.00 sf	33.00 /mh	195	0.15 /sf	35		/sf		/sf		230	316
Finish- Top of Wall	3350.110	140.00 sf	33.00 /mh	65	/sf			/sf		/sf		65	93
Liquid Curing Walls	3390.170	3,500.00 sf	33.00 /mh	116	0.06 /sf	210		/sf		/sf		326	376
Grind/Patch Walls	3350.130	3,360.00 sf	33.00 /mh	1,331	0.07 /sf	235		/sf		/sf		1,566	2,151
Blockouts in Concrete	3150.194	96.00 sf	33.00 /mh	1,109	2.00 /sf	192		/sf		/sf		1,301	1,789
Waterstop 6" Flat	3510.610	96.00 lf	33.00 /mh	317	6.00 /lf	605		/lf		/lf		922	1,061
Keyway 4"	3150.620	96.00 lf	33.00 /mh	634	1.00 /lf	101		/lf		/lf		734	1,013
Chamfer 3/4"	3150.625	80.00 lf	33.00 /mh	132	0.25 /lf	21		/lf		/lf		153	211
Rub Walls	3350.140	2,800.00 sf	33.00 /mh	4,620	0.25 /sf	700		/sf		/sf		5,320	7,353
Oil Wall Forms	3100.310	3,360.00 sf	/sf		0.02 /sf	67		/sf		/sf		67	67
Nails and Hardware	3150.200	3,360.00 sf	/sf		0.04 /sf	134		/sf		/sf		134	134
Form Ties 12"	3150.632	840.00 ea	/ea		2.60 /ea	2,184		/ea		/ea		2,184	2,184
Dimension Lumber	3150.200	3,360.00 sf	/sf		0.50 /sf	1,680		/sf		/sf		1,680	1,680
Rebar Templates	3200.980	140.00 lf	33.00 /mh	231	0.50 /lf	70		/lf		/lf		301	403
XYPEX Admix	3310.100	62.22 cy	/cy		90.00 /cy	5,992		/cy		/cy		5,992	5,992

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
0303- Process Basin Effluent Box Walls													
Pump Place Walls	3310.260	50.00 cy	33.00 /mh	212	/cy			/cy		35.00 /cy	1,873	2,084	2,178
4500 psi Concrete	3310.100	50.00 cy	/cy		198.00 /cy	10,593		/cy		/cy		10,593	10,593
Wall Placement Count	3310.360	2.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Gang Form System 8-12'	3100.180	1,800.00 sf	33.00 /mh	9,504	2.75 /sf	5,198		/sf		/sf		14,702	18,883
Wall Bulkhead Forms	3150.192	72.00 sf	33.00 /mh	1,093	2.00 /sf	151		/sf		/sf		1,244	1,725
CJ Prep Walls	3350.170	184.50 sf	33.00 /mh	152	0.15 /sf	28		/sf		/sf		180	247
Finish- Top of Wall	3350.110	112.50 sf	33.00 /mh	52	/sf			/sf		/sf		52	75
Liquid Curing Walls	3390.170	1,912.50 sf	33.00 /mh	63	0.06 /sf	115		/sf		/sf		178	206
Grind/Patch Walls	3350.130	1,800.00 sf	33.00 /mh	713	0.07 /sf	126		/sf		/sf		839	1,152
Waterstop 6" Flat	3510.610	48.00 lf	33.00 /mh	158	6.00 /lf	302		/lf		/lf		461	531
Keyway 4"	3150.620	48.00 lf	33.00 /mh	317	1.00 /lf	50		/lf		/lf		367	507
Chamfer 3/4"	3150.625	150.00 lf	33.00 /mh	248	0.25 /lf	39		/lf		/lf		287	396
Rub Walls	3350.140	1,500.00 sf	33.00 /mh	2,475	0.25 /sf	375		/sf		/sf		2,850	3,939
Oil Wall Forms	3100.310	1,800.00 sf	/sf		0.02 /sf	36		/sf		/sf		36	36
Nails and Hardware	3150.200	1,800.00 sf	/sf		0.04 /sf	72		/sf		/sf		72	72
Form Ties 18"	3150.632	450.00 ea	/ea		2.90 /ea	1,305		/ea		/ea		1,305	1,305
Dimension Lumber	3150.200	1,800.00 sf	/sf		0.50 /sf	900		/sf		/sf		900	900
Rebar Templates	3200.980	75.00 lf	33.00 /mh	124	0.50 /lf	38		/lf		/lf		161	216
XYPEX Admix	3310.100	50.00 cy	/cy		90.00 /cy	4,815		/cy		/cy		4,815	4,815
0304- Process Basin Elevated Decks													
4500 psi Concrete	3310.100	60.00 cy	/cy		198.00 /cy	12,712		/cy		/cy		12,712	12,712
Crane Place Suspended Slab	3310.240	60.00 cy	33.00 /mh	3,178	/cy			/cy		/cy		3,178	4,576
Shore Suspended Slab 15-up	3100.124	3,840.00 sf	33.00 /mh	38,016	6.00 /sf	24,192		/sf		/sf		62,208	78,935
Slab Edge Form < 1'	3100.124	640.00 sf	33.00 /mh	8,870	2.00 /sf	1,344		/sf		/sf		10,214	14,117
Suspended Slab Const Joint	3100.124	50.00 sf	33.00 /mh	578	2.00 /sf	100		/sf		/sf		678	932
CJ Prep Elevated Slab CJ	3350.170	50.00 sf	33.00 /mh	41	0.20 /sf	10		/sf		/sf		51	69
Finish- Hard Trowel	3350.110	3,840.00 sf	33.00 /mh	1,774	/sf			/sf		/sf		1,774	2,555
Liquid Curing Compounds	3390.170	3,840.00 sf	33.00 /mh	253	0.06 /sf	230		/sf		/sf		484	595
Grind and Patch Deck Bottom	3350.130	3,840.00 sf	33.00 /mh	1,521	0.07 /sf	269		/sf		/sf		1,789	2,459
Blockouts in Concrete	3150.194	36.00 sf	33.00 /mh	416	2.00 /sf	72		/sf		/sf		488	671
Chamfer 3/4"	3150.625	1,280.00 lf	33.00 /mh	2,112	0.25 /lf	336		/lf		/lf		2,448	3,377
Oil Suspended Slab Frm	3100.310	3,840.00 sf	/sf		0.02 /sf	77		/sf		/sf		77	77
Nails and Hardware	3150.200	3,840.00 sf	/sf		0.04 /sf	154		/sf		/sf		154	154
XYPEX Admix	3310.100	60.00 cy	/cy		90.00 /cy	5,778		/cy		/cy		5,778	5,778
0330 4- Process Basin Pipe Encase 12" EQ Basin Discharge (20S203)													
Other Placement Count	3310.360	1.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Formwork Pipe Encasement	3100.108	114.00 sf	33.00 /mh	941	2.00 /sf	239		/sf		/sf		1,180	1,594
Place Pipe Encasement	3310.195	11.00 cy	33.00 /mh	388	175.00 /cy	2,060		/cy		/cy		2,448	2,619
Nails and Hardware	3150.200	114.00 sf	/sf		0.04 /sf	5		/sf		/sf		5	5
Form Ties Specialty	3150.632	10.00 ea	33.00 /mh	66	5.00 /ea	50		/ea		/ea		116	145
Pipe Tie Downs (Small)	3150.200	6.00 ea	33.00 /mh	792	100.00 /ea	600		/ea		/ea		1,392	1,740
Dimension Lumber	3150.200	114.00 sf	/sf		0.50 /sf	57		/sf		/sf		57	57
Oil SOG Form	3100.310	114.00 sf	/sf		0.02 /sf	2		/sf		/sf		2	2
Finish- Rough	3350.110	48.00 sf	33.00 /mh	14	0.01 /sf	0		/sf		/sf		15	21
Liquid Curing Compounds	3390.170	48.00 sf	33.00 /mh	3	0.06 /sf	3		/sf		/sf		6	7
Rebar Supply	3200.980	1.10 tn	/tn		1,600.00 /tn	1,760		/tn		/tn		1,760	1,760
Rebar Install Self	3200.980	1.10 tn	33.00 /mh	1,089	/tn			/tn		/tn		1,089	1,568
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.25 Mnth	/Mnth		/Mnth		3,800.00 /Mnth		950	1,800.00 /Mnth	450	1,400	1,400
Form Rectangle Columns	3100.110	108.00 sf	33.00 /mh	1,247	2.00 /sf	227		/sf		/sf		1,474	2,023
0330 4- Process Basin 24" RAS Pipe Encase 2 ea (20S203)													
Other Placement Count	3310.360	1.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Formwork Pipe Encasement	3100.108	392.00 sf	33.00 /mh	3,234	2.00 /sf	823		/sf		/sf		4,057	5,480
Place Pipe Encasement	3310.195	31.00 cy	33.00 /mh	1,095	175.00 /cy	5,805		/cy		/cy		6,899	7,381
Nails and Hardware	3150.200	392.00 sf	/sf		0.04 /sf	16		/sf		/sf		16	16
Form Ties Specialty	3150.632	25.00 ea	33.00 /mh	165	5.00 /ea	125		/ea		/ea		290	363
Pipe Tie Downs (Medium)	3150.200	9.00 ea	33.00 /mh	1,485	150.00 /ea	1,350		/ea		/ea		2,835	3,488
Dimension Lumber	3150.200	392.00 sf	/sf		0.50 /sf	196		/sf		/sf		196	196
Oil SOG Form	3100.310	392.00 sf	/sf		0.02 /sf	8		/sf		/sf		8	8
Finish- Rough	3350.110	180.00 sf	33.00 /mh	53	0.01 /sf	1		/sf		/sf		55	78
Liquid Curing Compounds	3390.170	180.00 sf	33.00 /mh	12	0.06 /sf	11		/sf		/sf		23	28
Rebar Supply	3200.980	3.10 tn	/tn		1,600.00 /tn	4,960		/tn		/tn		4,960	4,960
Rebar Install Self	3200.980	3.10 tn	33.00 /mh	3,069	/tn			/tn		/tn		3,069	4,419
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.50 Mnth	/Mnth		/Mnth		3,800.00 /Mnth		1,900	1,800.00 /Mnth	900	2,800	2,800
Form Rectangle Columns	3100.110	160.00 sf	33.00 /mh	1,848	2.00 /sf	336		/sf		/sf		2,184	2,997
0330 4- Process Basin Aeration Basin Drains 3 ea (20M205)													
Formwork Pipe Encasement	3100.108	312.50 sf	33.00 /mh	2,578	2.00 /sf	656		/sf		/sf		3,234	4,369
Place Pipe Encasement	3310.195	22.00 cy	33.00 /mh	777	175.00 /cy	4,120		/cy		/cy		4,896	5,238
Nails and Hardware	3150.200	312.50 sf	/sf		0.04 /sf	13		/sf		/sf		13	13
Form Ties Specialty	3150.632	32.00 ea	33.00 /mh	211	5.00 /ea	160		/ea		/ea		371	464
Pipe Tie Downs (Small)	3150.200	16.00 ea	33.00 /mh	2,112	100.00 /ea	1,600		/ea		/ea		3,712	4,641
Dimension Lumber	3150.200	312.50 sf	/sf		0.50 /sf	156		/sf		/sf		156	156
Oil SOG Form	3100.310	312.50 sf	/sf		0.02 /sf	6		/sf		/sf		6	6
Finish- Rough	3350.110	150.00 sf	33.00 /mh	45	0.01 /sf	1		/sf		/sf		45	65
Liquid Curing Compounds	3390.170	150.00 sf	33.00 /mh	10	0.06 /sf	9		/sf		/sf		19	23
Rebar Supply	3200.980	2.20 tn	/tn		1,600.00 /tn	3,520		/tn		/tn		3,520	3,520
Rebar Install Self	3200.980	2.20 tn	33.00 /mh	2,178	/tn			/tn		/tn		2,178	3,136
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.35 Mnth	/Mnth		/Mnth		3,800.00 /Mnth		1,330	1,800.00 /Mnth	630	1,960	1,960
Form Rectangle Columns	3100.110	90.00 sf	33.00 /mh	1,040	2.00 /sf	189		/sf		/sf		1,229	1,686
0330 4- Process Basin 24" Overflow Pipe Encase (20M201)													
Formwork Pipe Encasement	3100.108	272.00 sf	33.00 /mh	2,244	2.00 /sf	571		/sf		/sf		2,815	3,803
Place Pipe Encasement	3310.195	21.00 cy	33.00 /mh	742	175.00 /cy	3,932		/cy		/cy		4,674	5,000
Nails and Hardware	3150.200	272.00 sf	/sf		0.04 /sf	11		/sf		/sf		11	11

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
0330 4- Process Basin 24" Overflow Pipe Encase (20M201)													
Form Ties Specialty	3150.632	17.00 ea	33.00 /mh	112	5.00 /ea	85		/ea		/ea		197	247
Pipe Tie Downs (Medium)	3150.200	6.00 ea	33.00 /mh	990	150.00 /ea	900		/ea		/ea		1,890	2,326
Dimension Lumber	3150.200	272.00 sf	/sf		0.50 /sf	136		/sf		/sf		136	136
Oil SOG Form	3100.310	272.00 sf	/sf		0.02 /sf	5		/sf		/sf		5	5
Finish- Rough	3350.110	120.00 sf	33.00 /mh	36	0.01 /sf	1		/sf		/sf		36	52
Liquid Curing Compounds	3390.170	120.00 sf	33.00 /mh	8	0.06 /sf	7		/sf		/sf		15	19
Rebar Supply	3200.980	2.10 tn	/tn		1,600.00 /tn	3,360		/tn		/tn		3,360	3,360
Rebar Install Self	3200.980	2.10 tn	33.00 /mh	2,079	/tn			/tn		/tn		2,079	2,994
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.25 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	950	1,800.00 /Mnth	450	1,400	1,400
Form Rectangle Columns	3100.110	64.00 sf	33.00 /mh	739	2.00 /sf	134		/sf		/sf		874	1,199
23 MBR MBR Building													
Concrete Concrete													
019-100 Water Test MBR Basins													
Water Test Basins	3995.200	1.00 ea	33.00 /mh	1,056	/ea			/ea		/ea		1,056	1,521
Pumps and hoses	3995.200	1.00 ls	/ls		1,500.00 /ls	1,500		/ls		/ls		1,500	1,500
Temporary Bulkheads	3995.200	1.00 ls	33.00 /mh	132	250.00 /ls	250		/ls		/ls		382	440
Urethane Injection System	3995.200	1.00 ls	33.00 /mh	5,280	3,000.00 /ls	3,000		750.00 /ls	750	/ls		9,030	11,353
0302- MBR Basin Lower level base slab (23S402) elev 43													
4500 psi Concrete	3310.100	65.61 cy	/cy		198.00 /cy	13,901		/cy		/cy		13,901	13,901
Slab Placement Count	3310.360	2.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Pump Place Slab on Grade	3310.230	65.61 cy	33.00 /mh	2,317	/cy			/cy		35.00 /cy	2,457	4,774	5,793
Formwork S.O.G. Edge Form > 1'	3100.120	311.22 sf	33.00 /mh	3,595	2.00 /sf	654		/sf		/sf		4,248	5,830
Formwork S.O.G. Const Joints > 1'	3100.120	42.56 sf	33.00 /mh	646	2.00 /sf	89		/sf		/sf		735	1,020
CJ Prep Slab	3350.170	42.56 sf	33.00 /mh	35	0.15 /sf	6		/sf		/sf		41	57
Finegrade Below Concrete	3150.650	1,332.00 sf	33.00 /mh	615	/sf			/sf		/sf		615	886
Finish- Hard Trowel	3350.110	1,332.00 sf	33.00 /mh	615	/sf			/sf		/sf		615	886
Liquid Curing Compounds	3390.170	1,332.00 sf	33.00 /mh	88	0.06 /sf	80		/sf		/sf		168	207
Waterstop 6" Flat	3510.610	266.00 lf	33.00 /mh	878	6.00 /lf	1,676		/lf		/lf		2,554	2,940
Keyway 4"	3150.620	32.00 lf	33.00 /mh	211	1.00 /lf	34		/lf		/lf		245	338
Oil SOG Form	3100.310	353.78 sf	/sf		0.02 /sf	7		/sf		/sf		7	7
Nails and Hardware	3150.200	311.22 sf	/sf		0.04 /sf	12		/sf		/sf		12	12
Dimension Lumber	3150.200	311.22 sf	/sf		0.50 /sf	156		/sf		/sf		156	156
Waterstop Fitting - Flat Tee	3510.610	6.00 ea	33.00 /mh	198	71.00 /ea	426		/ea		/ea		624	711
Waterstop Fitting - Flat L	3510.610	4.00 ea	33.00 /mh	132	49.00 /ea	196		/ea		/ea		328	386
XYPEX Admix	3310.100	65.61 cy	/cy		90.00 /cy	6,319		/cy		/cy		6,319	6,319
0302- MBR Basin Lower level slab elev 47.5 (23S206)													
4500 psi Concrete	3310.100	162.00 cy	/cy		198.00 /cy	34,321		/cy		/cy		34,321	34,321
Pump Place Slab on Grade	3310.230	162.00 cy	33.00 /mh	4,576	/cy			/cy		35.00 /cy	6,067	10,643	12,657
Formwork S.O.G. Edge Form > 1'	3100.120	608.00 sf	33.00 /mh	7,022	2.00 /sf	1,277		/sf		/sf		8,299	11,389
Formwork S.O.G. Const Joints > 1'	3100.120	168.00 sf	33.00 /mh	2,550	2.00 /sf	353		/sf		/sf		2,903	4,025
CJ Prep Slab	3350.170	168.00 sf	33.00 /mh	139	0.15 /sf	25		/sf		/sf		164	225
Finegrade Below Concrete	3150.650	1,974.00 sf	33.00 /mh	912	/sf			/sf		/sf		912	1,313
Finish- Hard Trowel	3350.110	1,974.00 sf	33.00 /mh	912	/sf			/sf		/sf		912	1,313
Liquid Curing Compounds	3390.170	1,974.00 sf	33.00 /mh	130	0.06 /sf	118		/sf		/sf		249	306
Blockouts in Concrete	3150.194	16.00 sf	33.00 /mh	185	2.00 /sf	32		/sf		/sf		217	298
Waterstop 6" Flat	3510.610	440.00 lf	33.00 /mh	1,452	6.00 /lf	2,772		/lf		/lf		4,224	4,863
Keyway 4"	3150.620	89.00 lf	33.00 /mh	587	1.00 /lf	93		/lf		/lf		681	939
Oil SOG Form	3100.310	355.11 sf	/sf		0.02 /sf	7		/sf		/sf		7	7
Nails and Hardware	3150.200	236.74 sf	/sf		0.04 /sf	9		/sf		/sf		9	9
Dimension Lumber	3150.200	236.74 sf	/sf		0.50 /sf	118		/sf		/sf		118	118
Waterstop Fitting - Vertical Tee	3510.610	8.00 ea	33.00 /mh	264	71.00 /ea	568		/ea		/ea		832	948
Waterstop Fitting - Flat Tee	3510.610	10.00 ea	33.00 /mh	99	71.00 /ea	710		/ea		/ea		809	853
Waterstop Fitting - Flat L	3510.610	2.00 ea	33.00 /mh	66	49.00 /ea	98		/ea		/ea		164	193
XYPEX Admix	3310.100	162.00 cy	/cy		90.00 /cy	15,601		/cy		/cy		15,601	15,601
Flow Fill below Thickened slab	3310.105	30.00 cy	33.00 /mh	990	152.00 /cy	4,788		/cy		/cy		5,778	6,214
0302- MBR Building Column Footer Pads 23 ea (23S202)													
4500 psi Concrete	3310.100	101.12 cy	/cy		198.00 /cy	21,424		/cy		/cy		21,424	21,424
Slab Placement Count	3310.360	23.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Pump Place Slab on Grade	3310.230	101.12 cy	33.00 /mh	5,356	/cy			/cy		35.00 /cy	3,787	9,143	11,500
Formwork S.O.G. Edge Form > 1'	3100.120	1,188.24 sf	33.00 /mh	13,724	2.00 /sf	2,495		/sf		/sf		16,219	22,258
Finegrade Below Concrete	3150.650	1,844.00 sf	33.00 /mh	1,217	/sf			/sf		/sf		1,217	1,753
Finish- Hard Trowel	3350.110	1,844.00 sf	33.00 /mh	852	/sf			/sf		/sf		852	1,227
Liquid Curing Compounds	3390.170	1,844.00 sf	33.00 /mh	122	0.06 /sf	111		/sf		/sf		232	286
Oil SOG Form	3100.310	1,188.24 sf	/sf		0.02 /sf	24		/sf		/sf		24	24
Nails and Hardware	3150.200	1,188.24 sf	/sf		0.04 /sf	48		/sf		/sf		48	48
Dimension Lumber	3150.200	1,188.24 sf	/sf		0.50 /sf	594		/sf		/sf		594	594
0302- MBR Building Concrete Bond Beams Under MBR Build Slab (23S202)													
4500 psi Concrete	3310.100	10.00 cy	/cy		198.00 /cy	2,119		/cy		/cy		2,119	2,119
Slab Placement Count	3310.360	3.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Pump Place Slab on Grade	3310.230	10.00 cy	33.00 /mh	1,059	/cy			/cy		35.00 /cy	375	1,434	1,900
Formwork S.O.G. Edge Form < 1'	3100.120	502.00 sf	33.00 /mh	5,798	2.00 /sf	1,054		/sf		/sf		6,852	9,403
Formwork S.O.G. Const Joints < 1'	3100.120	8.00 sf	33.00 /mh	121	2.00 /sf	17		/sf		/sf		138	192
CJ Prep Slab	3350.170	8.00 sf	33.00 /mh	7	0.15 /sf	1		/sf		/sf		8	11
Finegrade Below Concrete	3150.650	250.00 sf	33.00 /mh	116	/sf			/sf		/sf		116	166
Finish- Hard Trowel	3350.110	250.00 sf	33.00 /mh	116	/sf			/sf		/sf		116	166
Liquid Curing Compounds	3390.170	250.00 sf	33.00 /mh	17	0.06 /sf	15		/sf		/sf		32	39
Oil SOG Form	3100.310	510.00 sf	/sf		0.02 /sf	10		/sf		/sf		10	10
Nails and Hardware	3150.200	502.00 sf	/sf		0.04 /sf	20		/sf		/sf		20	20
Dimension Lumber	3150.200	502.00 sf	/sf		0.50 /sf	251		/sf		/sf		251	251
Rebar Formsavers # 5	3210.108	40.00 ea	33.00 /mh	436	28.00 /ea	1,120		/ea		/ea		1,556	1,747
0302- MBR Base operation level Slab													

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
0302- MBR Base operation level Slab													
4500 psi Concrete	3310.100	288.00 cy	/cy		198.00 /cy	61,016		/cy		/cy		61,016	61,016
Pump Place Slab on Grade	3310.230	288.00 cy	33.00 /mh	12,203	/cy			/cy		35.00 /cy	10,786	22,989	28,358
Formwork S.O.G. Edge Form < 1'	3100.120	48.00 sf	33.00 /mh	554	2.00 /sf	101		/sf		/sf		655	899
Formwork S.O.G. Const Joints < 1'	3100.120	414.00 sf	33.00 /mh	6,285	2.00 /sf	869		/sf		/sf		7,154	9,919
CJ Prep Slab	3350.170	414.00 sf	33.00 /mh	342	0.15 /sf	62		/sf		/sf		404	554
Finegrade Below Concrete	3150.650	11,760.00 sf	33.00 /mh	5,433	/sf			/sf		/sf		5,433	7,824
Finish- Hard Trowel	3350.110	11,760.00 sf	33.00 /mh	5,433	/sf			/sf		/sf		5,433	7,824
Liquid Curing Compounds	3390.170	11,760.00 sf	33.00 /mh	776	0.06 /sf	706		/sf		/sf		1,482	1,823
Blockouts in Concrete	3150.194	164.00 sf	33.00 /mh	1,894	2.00 /sf	328		/sf		/sf		2,222	3,056
Expansion Joint	3150.720	554.00 sf	33.00 /mh	1,828	12.00 /sf	6,980		/sf		/sf		8,809	9,613
Expansion Joint Sealant	3150.720	662.00 lf	33.00 /mh	2,185	2.00 /lf	1,390		/lf		/lf		3,575	4,536
Oil SOG Form	3100.310	739.50 sf	/sf		0.02 /sf	15		/sf		/sf		15	15
Nails and Hardware	3150.200	325.50 sf	/sf		0.04 /sf	13		/sf		/sf		13	13
Dimension Lumber	3150.200	325.50 sf	/sf		0.50 /sf	163		/sf		/sf		163	163
Saw Cut S-O-G	3350.160	1,104.00 lf	33.00 /mh	1,822	0.50 /lf	552		0.50 /lf	552	/lf		2,926	3,727
Caulking Saw cuts	7920.300	1,104.00 lf	33.00 /mh	1,822	8.00 /tube	378		/lf		/lf		2,200	3,001
Trench Drain moltz tie down and level	15403.160	55.00 lf	33.00 /mh	908	/lf			/lf		/lf		908	1,307
15 Mil. Vapor Barrier	3150.630	11,760.00 sf	33.00 /mh	3,881	0.30 /sf	3,881		/sf		/sf		7,762	9,469
Touch Up and level floor drains	3150.194	23.00 ea	33.00 /mh	759	0.00 /ea	0		/ea		/ea		759	1,093
0302- Concrete Curb at MBR Metal Building													
4500 psi Concrete	3310.100	10.72 cy	/cy		198.00 /cy	2,271		/cy		/cy		2,271	2,271
Slab Placement Count	3310.360	8.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Buggy Place Slab on Grade	3310.230	10.72 cy	33.00 /mh	1,514	/cy			/cy		/cy		1,514	2,180
Formwork S.O.G. Edge Form < 1'	3100.120	865.34 sf	33.00 /mh	14,278	2.00 /sf	1,817		/sf		/sf		16,095	22,378
Formwork S.O.G. Const Joints < 1'	3100.120	10.00 sf	33.00 /mh	152	2.00 /sf	21		/sf		/sf		173	240
CJ Prep Slab	3350.170	10.00 sf	33.00 /mh	8	0.15 /sf	2		/sf		/sf		10	13
Finegrade Below Concrete	3150.650	289.44 sf	33.00 /mh	134	/sf			/sf		/sf		134	193
Finish- Hard Trowel	3350.110	289.44 sf	33.00 /mh	134	/sf			/sf		/sf		134	193
Liquid Curing Compounds	3390.170	289.44 sf	33.00 /mh	19	0.06 /sf	17		/sf		/sf		36	45
Chamfer 3/4"	3150.625	864.00 lf	33.00 /mh	1,426	0.25 /lf	227		/lf		/lf		1,652	2,280
Oil SOG Form	3100.310	875.34 sf	/sf		0.02 /sf	18		/sf		/sf		18	18
Nails and Hardware	3150.200	865.34 sf	/sf		0.04 /sf	35		/sf		/sf		35	35
Dimension Lumber	3150.200	865.34 sf	/sf		0.50 /sf	433		/sf		/sf		433	433
Drill and Epoxy #4	3210.101	412.00 ea	33.00 /mh	3,399	5.00 /ea	2,163		/ea		/ea		5,562	7,058
0302- Dumpster Loadout bay base slab and concrete paving for dumpster													
4500 psi Concrete	3310.100	92.00 cy	/cy		198.00 /cy	19,491		/cy		/cy		19,491	19,491
Slab Placement Count	3310.360	1.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Pump Place Slab on Grade	3310.230	92.00 cy	33.00 /mh	3,898	/cy			/cy		35.00 /cy	3,445	7,344	9,059
Formwork S.O.G. Edge Form < 1'	3100.120	208.50 sf	33.00 /mh	2,408	2.00 /sf	438		/sf		/sf		2,846	3,906
Formwork S.O.G. Const Joints < 1'	3100.120	162.00 sf	33.00 /mh	2,459	2.00 /sf	340		/sf		/sf		2,799	3,881
CJ Prep Slab	3350.170	60.75 sf	33.00 /mh	50	0.15 /sf	9		/sf		/sf		59	81
Finegrade Below Concrete	3150.650	3,024.00 sf	33.00 /mh	1,397	/sf			/sf		/sf		1,397	2,012
Finish- Hard Trowel	3350.110	3,024.00 sf	33.00 /mh	1,397	/sf			/sf		/sf		1,397	2,012
Liquid Curing Compounds	3390.170	3,024.00 sf	33.00 /mh	200	0.06 /sf	181		/sf		/sf		381	469
Road Base Below Concrete	2305.300	112.00 cy	33.00 /mh	3,696	25.00 /ton	5,544		/cy		/cy		9,240	10,866
Expansion Joint	3150.720	104.25 sf	33.00 /mh	344	12.00 /sf	1,314		/sf		/sf		1,658	1,809
Expansion Joint Sealant	3150.720	139.00 lf	33.00 /mh	459	2.00 /lf	292		/lf		/lf		751	952
Oil SOG Form	3100.310	269.25 sf	/sf		0.02 /sf	5		/sf		/sf		5	5
Nails and Hardware	3150.200	208.50 sf	/sf		0.04 /sf	8		/sf		/sf		8	8
Dimension Lumber	3150.200	208.50 sf	/sf		0.50 /sf	104		/sf		/sf		104	104
Saw Cut S-O-G	3350.160	448.00 lf	33.00 /mh	739	0.50 /lf	224		0.50 /lf	224	/lf		1,187	1,512
SOG Rebar	3210.104	6.30 tn	33.00 /mh	8,316	1,600.00 /tn	10,584		/tn		/tn		18,900	22,559
Trench Drain (Moltz tie down and level)	15403.160	6.00 lf	33.00 /mh	297	/lf			/lf		/lf		297	428
15 Mil. Vapor Barrier	3150.630	3,024.00 sf	33.00 /mh	998	0.30 /sf	998		/sf		/sf		1,996	2,435
Pipe Tie Downs (Medium)	3150.200	30.00 ea	33.00 /mh	3,960	150.00 /ea	4,500		/ea		/ea		8,460	10,202
0302- Chemical Loadout Slab (23S203)													
4500 psi Concrete	3310.100	2.67 cy	/cy		198.00 /cy	565		/cy		/cy		565	565
Truck Place Slab on Grade	3310.230	2.67 cy	33.00 /mh	188	/cy			/cy		/cy		188	271
Formwork S.O.G. Edge Form < 1'	3100.120	36.00 sf	33.00 /mh	416	2.00 /sf	76		/sf		/sf		491	674
Finegrade Below Concrete	3150.650	72.00 sf	33.00 /mh	33	/sf			/sf		/sf		33	48
Finish- Hard Trowel	3350.110	72.00 sf	33.00 /mh	33	/sf			/sf		/sf		33	48
Liquid Curing Compounds	3390.170	72.00 sf	33.00 /mh	5	0.06 /sf	4		/sf		/sf		9	11
Road Base Below Concrete	2305.300	2.67 cy	33.00 /mh	88	25.00 /ton	132		/cy		/cy		220	259
Expansion Joint	3150.720	12.00 sf	33.00 /mh	40	12.00 /sf	151		/sf		/sf		191	208
Expansion Joint Sealant	3150.720	12.00 lf	33.00 /mh	40	2.00 /lf	25		/lf		/lf		65	82
Oil SOG Form	3100.310	36.00 sf	/sf		0.02 /sf	1		/sf		/sf		1	1
Nails and Hardware	3150.200	36.00 sf	/sf		0.04 /sf	1		/sf		/sf		1	1
Dimension Lumber	3150.200	36.00 sf	/sf		0.50 /sf	18		/sf		/sf		18	18
SOG Rebar	3210.104	0.20 tn	33.00 /mh	264	1,600.00 /tn	336		/tn		/tn		600	716
0302- Concrete Curb at Chem loadout													
4500 psi Concrete	3310.100	1.00 cy	/cy		198.00 /cy	212		/cy		/cy		212	212
Truck Place Slab on Grade	3310.230	1.00 cy	33.00 /mh	141	/cy			/cy		/cy		141	203
Formwork S.O.G. Edge Form < 1'	3100.120	49.34 sf	33.00 /mh	814	2.00 /sf	104		/sf		/sf		918	1,276
Finegrade Below Concrete	3150.650	16.08 sf	33.00 /mh	7	/sf			/sf		/sf		7	11
Finish- Hard Trowel	3350.110	16.08 sf	33.00 /mh	7	/sf			/sf		/sf		7	11
Liquid Curing Compounds	3390.170	16.08 sf	33.00 /mh	1	0.06 /sf	1		/sf		/sf		2	2
Oil SOG Form	3100.310	49.34 sf	/sf		0.02 /sf	1		/sf		/sf		1	1
Nails and Hardware	3150.200	49.34 sf	/sf		0.04 /sf	2		/sf		/sf		2	2
Dimension Lumber	3150.200	49.34 sf	/sf		0.50 /sf	25		/sf		/sf		25	25
SOG Rebar	3210.104	0.08 tn	33.00 /mh	99	1,600.00 /tn	126		/tn		/tn		225	269
Drill and Epoxy #4	3210.101	24.00 ea	33.00 /mh	198	5.00 /ea	126		/ea		/ea		324	411
0302- MBR Footings at exterior Walls													

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
0302- MBR Footings at exterior Walls													
4500 psi Concrete	3310.100	32.00 cy	/cy		198.00 /cy	6,780		/cy		/cy		6,780	6,780
Pump Place Slab on Grade	3310.230	32.00 cy	33.00 /mh	1,695	/cy			/cy		35.00 /cy	1,198	2,893	3,639
Formwork S.O.G. Edge Form < 1'	3100.120	868.00 sf	33.00 /mh	10,025	2.00 /sf	1,823		/sf		/sf		11,848	16,259
Formwork S.O.G. Const Joints < 1'	3100.120	20.00 sf	33.00 /mh	304	2.00 /sf	42		/sf		/sf		346	479
CJ Prep Slab	3350.170	20.00 sf	33.00 /mh	17	0.15 /sf	3		/sf		/sf		20	27
Finegrade Below Concrete	3150.650	864.00 sf	33.00 /mh	399	/sf			/sf		/sf		399	575
Finish- Hard Trowel	3350.110	864.00 sf	33.00 /mh	399	/sf			/sf		/sf		399	575
Liquid Curing Compounds	3390.170	864.00 sf	33.00 /mh	57	0.06 /sf	52		/sf		/sf		109	134
Oil SOG Form	3100.310	888.00 sf	/sf		0.02 /sf	18		/sf		/sf		18	18
Nails and Hardware	3150.200	868.00 sf	/sf		0.04 /sf	35		/sf		/sf		35	35
Dimension Lumber	3150.200	868.00 sf	/sf		0.50 /sf	434		/sf		/sf		434	434
Rebar Formsavers # 5	3210.108	210.00 ea	33.00 /mh	2,287	28.00 /ea	5,880		/ea		/ea		8,167	9,173
0302- MBR HVAC Pad													
4500 psi Concrete	3310.100	4.76 cy	/cy		198.00 /cy	1,009		/cy		/cy		1,009	1,009
Truck Place Slab on Grade	3310.230	4.76 cy	33.00 /mh	421	/cy			/cy		/cy		421	606
Formwork S.O.G. Edge Form < 1'	3100.120	37.52 sf	33.00 /mh	433	2.00 /sf	79		/sf		/sf		512	703
Finegrade Below Concrete	3150.650	192.00 sf	33.00 /mh	89	/sf			/sf		/sf		89	128
Finish- Hard Trowel	3350.110	192.00 sf	33.00 /mh	89	/sf			/sf		/sf		89	128
Liquid Curing Compounds	3390.170	192.00 sf	33.00 /mh	13	0.06 /sf	12		/sf		/sf		24	30
Road Base Below Concrete	2305.300	7.11 cy	33.00 /mh	235	25.00 /ton	352		/cy		/cy		587	690
Expansion Joint	3150.720	8.04 sf	33.00 /mh	27	12.00 /sf	101		/sf		/sf		128	140
Expansion Joint Sealant	3150.720	12.00 lf	33.00 /mh	40	2.00 /lf	25		/lf		/lf		65	82
Oil SOG Form	3100.310	37.52 sf	/sf		0.02 /sf	1		/sf		/sf		1	1
Nails and Hardware	3150.200	37.52 sf	/sf		0.04 /sf	2		/sf		/sf		2	2
Dimension Lumber	3150.200	37.52 sf	/sf		0.50 /sf	19		/sf		/sf		19	19
SOG Rebar	3210.104	0.48 tn	33.00 /mh	628	1,600.00 /tn	800		/tn		/tn		1,428	1,705
0302- Concrete Pads at Doorways and garage doors MBR													
4500 psi Concrete	3310.100	12.61 cy	/cy		198.00 /cy	2,671		/cy		/cy		2,671	2,671
Truck Place Slab on Grade	3310.230	12.61 cy	33.00 /mh	668	/cy			/cy		/cy		668	961
Formwork S.O.G. Edge Form < 1'	3100.120	128.64 sf	33.00 /mh	1,486	2.00 /sf	270		/sf		/sf		1,756	2,410
Finegrade Below Concrete	3150.650	508.00 sf	33.00 /mh	235	/sf			/sf		/sf		235	338
Finish- Hard Trowel	3350.110	508.00 sf	33.00 /mh	235	/sf			/sf		/sf		235	338
Liquid Curing Compounds	3390.170	508.00 sf	33.00 /mh	34	0.06 /sf	30		/sf		/sf		64	79
Road Base Below Concrete	2305.300	18.82 cy	33.00 /mh	621	25.00 /ton	931		/cy		/cy		1,552	1,825
Expansion Joint	3150.720	38.86 sf	33.00 /mh	128	12.00 /sf	490		/sf		/sf		618	674
Expansion Joint Sealant	3150.720	58.00 lf	33.00 /mh	191	2.00 /lf	122		/lf		/lf		313	397
Oil SOG Form	3100.310	128.64 sf	/sf		0.02 /sf	3		/sf		/sf		3	3
Nails and Hardware	3150.200	128.64 sf	/sf		0.04 /sf	5		/sf		/sf		5	5
Dimension Lumber	3150.200	128.64 sf	/sf		0.50 /sf	64		/sf		/sf		64	64
SOG Rebar	3210.104	1.26 tn	33.00 /mh	1,665	1,600.00 /tn	2,118		/tn		/tn		3,783	4,515
0302-B Grout Topping MBR Pump Area													
Formwork S.O.G. Edge Form < 1'	3100.120	21.00 sf	33.00 /mh	243	2.00 /sf	44		/sf		/sf		287	393
Finish- Hard Trowel	3350.110	80.00 sf	33.00 /mh	37	/sf			/sf		/sf		37	53
Liquid Curing Compounds	3390.170	80.00 sf	33.00 /mh	5	0.06 /sf	5		/sf		/sf		10	12
Oil SOG Form	3100.310	21.00 sf	/sf		0.02 /sf	0		/sf		/sf		0	0
Nails and Hardware	3150.200	21.00 sf	/sf		0.04 /sf	1		/sf		/sf		1	1
Dimension Lumber	3150.200	21.00 sf	/sf		0.50 /sf	11		/sf		/sf		11	11
CJ Prep Slab	3350.170	80.00 sf	33.00 /mh	66	0.15 /sf	12		/sf		/sf		78	107
Acrylic Bonding Agent	3150.200	80.00 sf	33.00 /mh	5	1.00 /sf	80		/sf		/sf		85	88
Non Shrink Grout	3601.100	40.00 cf	/cf		60.00 /cf	2,400		/cf		/cf		2,400	2,400
Place Grout	11000.005	40.00 cf	33.00 /mh	3,960	75.00 /cf	3,000		/cf		/cf		6,960	8,702
0303- MBR Basin Walls all													
Pump Place Walls	3310.260	311.14 cy	33.00 /mh	12,085	/cy			/cy		35.00 /cy	11,652	23,737	29,054
4500 psi Concrete	3310.100	311.14 cy	/cy		198.00 /cy	65,917		/cy		/cy		65,917	65,917
Wall Placement Count	3310.360	7.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Gang Form System 8-12'	3100.180	7,368.00 sf	33.00 /mh	36,472	2.75 /sf	21,275		/sf		/sf		57,747	73,794
Gang Form System 16'->	3100.180	3,729.00 sf	33.00 /mh	18,459	2.75 /sf	10,767		/sf		/sf		29,226	37,348
Wall Bulkhead Forms	3150.192	328.20 sf	33.00 /mh	4,982	2.00 /sf	689		/sf		/sf		5,671	7,863
CJ Prep Walls	3350.170	973.38 sf	33.00 /mh	803	0.15 /sf	146		/sf		/sf		949	1,302
Finish- Top of Wall	3350.110	645.18 sf	33.00 /mh	298	/sf			/sf		/sf		298	429
Liquid Curing Walls	3390.170	11,742.18 sf	33.00 /mh	387	0.06 /sf	705		/sf		/sf		1,092	1,263
Grind/Patch Walls	3350.130	11,097.00 sf	33.00 /mh	4,394	0.07 /sf	777		/sf		/sf		5,171	7,105
Blockouts in Concrete	3150.194	168.00 sf	33.00 /mh	1,940	2.00 /sf	336		/sf		/sf		2,276	3,130
Waterstop 6" Flat	3510.610	226.50 lf	33.00 /mh	747	6.00 /lf	1,427		/lf		/lf		2,174	2,503
Keyway 4"	3150.620	247.00 lf	33.00 /mh	1,630	1.00 /lf	259		/lf		/lf		1,890	2,607
Chamfer 6"	3150.625	28.00 lf	33.00 /mh	462	6.00 /lf	176		/lf		/lf		638	842
Rub Walls	3350.140	8,184.00 sf	33.00 /mh	13,504	0.25 /sf	2,046		/sf		/sf		15,550	21,491
Oil Wall Forms	3100.310	11,097.00 sf	/sf		0.02 /sf	222		/sf		/sf		222	222
Nails and Hardware	3150.200	11,097.00 sf	/sf		0.04 /sf	444		/sf		/sf		444	444
Form Ties 12"	3150.632	609.00 ea	/ea		2.60 /ea	1,583		/ea		/ea		1,583	1,583
Form Ties 16"	3150.632	1,103.25 ea	/ea		2.80 /ea	3,089		/ea		/ea		3,089	3,089
Form Ties 24"	3150.632	1,062.00 ea	/ea		3.10 /ea	3,292		/ea		/ea		3,292	3,292
Dimension Lumber	3150.200	11,097.00 sf	/sf		0.50 /sf	5,549		/sf		/sf		5,549	5,549
Rebar Templates	3200.980	420.00 lf	33.00 /mh	693	0.50 /lf	210		/lf		/lf		903	1,208
Waterstop Greenstreak 609	3510.610	30.00 lf	33.00 /mh	198	83.00 /lf	2,615		/lf		/lf		2,813	2,900
Rebar Formsavers # 7	3210.108	48.00 ea	33.00 /mh	792	47.00 /ea	2,256		/ea		/ea		3,048	3,396
Rebar Formsavers # 6	3210.108	24.00 ea	33.00 /mh	396	39.00 /ea	936		/ea		/ea		1,332	1,506
XYPEX Admix	3310.100	311.14 cy	/cy		90.00 /cy	29,962		/cy		/cy		29,962	29,962
0303- MBR Wall Exterior Wall at footings													
Pump Place Walls	3310.260	37.52 cy	33.00 /mh	2,650	/cy			/cy		35.00 /cy	1,405	4,055	5,221
4500 psi Concrete	3310.100	37.52 cy	/cy		198.00 /cy	7,949		/cy		/cy		7,949	7,949
Rented Form System 0-4'	3100.180	3,024.00 sf	33.00 /mh	19,958	1.75 /sf	5,557		/sf		/sf		25,515	34,297

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total	
0303- MBR Wall Exterior Wall at footings														
Wall Bulkhead Forms	3150.192	23.45 sf	33.00 /mh	356	2.00 /sf	49		/sf		/sf		405	562	
CJ Prep Walls	3350.170	312.89 sf	33.00 /mh	258	0.15 /sf	47		/sf		/sf		305	419	
Finish- Top of Wall	3350.110	289.44 sf	33.00 /mh	134	/sf			/sf		/sf		134	193	
Liquid Curing Walls	3390.170	3,313.44 sf	33.00 /mh	109	0.06 /sf	199		/sf		/sf		308	356	
Grind/Patch Walls	3350.130	3,024.00 sf	33.00 /mh	1,198	0.07 /sf	212		/sf		/sf		1,409	1,936	
Blockouts in Concrete	3150.194	32.00 sf	33.00 /mh	370	2.00 /sf	64		/sf		/sf		434	596	
Chamfer 3/4"	3150.625	864.00 lf	33.00 /mh	1,426	0.25 /lf	227		/lf		/lf		1,652	2,280	
Rub Walls	3350.140	1,728.00 sf	33.00 /mh	2,851	0.25 /sf	432		/sf		/sf		3,283	4,538	
Oil Wall Forms	3100.310	3,024.00 sf	/sf		0.02 /sf	60		/sf		/sf		60	60	
Nails and Hardware	3150.200	3,024.00 sf	/sf		0.04 /sf	121		/sf		/sf		121	121	
Form Ties 8"	3150.632	756.00 ea	/ea		2.50 /ea	1,890		/ea		/ea		1,890	1,890	
Dimension Lumber	3150.200	3,024.00 sf	/sf		0.50 /sf	1,512		/sf		/sf		1,512	1,512	
Rebar Templates	3200.980	432.00 lf	33.00 /mh	713	0.50 /lf	216		/lf		/lf		929	1,242	
0307- MBR Metal Building Columns 23 ea (23S202)														
4500 psi Concrete	3310.100	14.89 cy	/cy		198.00 /cy	3,154		/cy		/cy		3,154	3,154	
Other Placement Count	3310.360	23.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0	
Pump Place Piers & Columns	3310.270	14.89 cy	33.00 /mh	1,051	/cy			/cy		/cy	35.00	557	1,609	2,071
Formwork Rectangle Columns 0 - 8'	3100.110	612.95 sf	33.00 /mh	7,080	2.00 /sf	1,287		/sf		/sf		8,367	11,482	
Liquid Curing Compounds	3390.170	612.95 sf	33.00 /mh	40	0.06 /sf	37		/sf		/sf		77	95	
Grind/Patch Columns	3350.130	612.95 sf	33.00 /mh	301	0.07 /sf	43		/sf		/sf		344	477	
Chamfer 3/4"	3150.625	230.00 lf	33.00 /mh	380	0.25 /lf	60		/lf		/lf		440	607	
Oil Column Forms	3100.310	612.95 sf	/sf		0.02 /sf	12		/sf		/sf		12	12	
Rub Columns	3350.140	245.18 sf	33.00 /mh	243	0.25 /sf	61		/sf		/sf		304	411	
Dimension Lumber	3150.200	612.95 sf	/sf		0.50 /sf	306		/sf		/sf		306	306	
Nails and Hardware	3150.200	612.95 sf	/sf		0.04 /sf	25		/sf		/sf		25	25	
0310- MBR Equipmnet pads														
Equipment Pad Form > 8"	3100.164	826.82 sf	33.00 /mh	9,550	2.00 /sf	1,736		/sf		/sf		11,286	15,488	
Oil Equipment Pad Form	3100.310	826.82 sf	/sf		0.02 /sf	17		/sf		/sf		17	17	
4500 psi Concrete	3310.100	56.41 cy	/cy		198.00 /cy	11,951		/cy		/cy		11,951	11,951	
Other Placement Count	3310.360	32.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0	
Buggy Place Equipment Pads	3310.300	56.41 cy	33.00 /mh	3,984	/cy			/cy		/cy		3,984	5,737	
Liquid Curing Compounds	3390.170	1,523.05 sf	33.00 /mh	101	0.06 /sf	91		/sf		/sf		192	236	
Finish- Hard Trowel	3350.110	1,523.05 sf	33.00 /mh	704	/sf			/sf		/sf		704	1,013	
Chamfer	3150.625	956.00 lf	33.00 /mh	1,577	0.25 /lf	251		/lf		/lf		1,828	2,522	
Misc. Pad Rebar	3210.104	4.23 tn	33.00 /mh	4,189	1,600.00 /tn	7,109		/tn		/tn		11,297	13,141	
Nails and Hardware	3150.200	826.82 sf	/sf		0.04 /sf	33		/sf		/sf		33	33	
Drill and Epoxy #4	3210.101	956.00 ea	33.00 /mh	7,887	5.00 /ea	5,019		/ea		/ea		12,906	16,376	
Blockouts in Concrete	3150.194	72.00 sf	33.00 /mh	832	2.00 /sf	144		/sf		/sf		976	1,342	
0330 4- Pipe Encasement MBR Drains														
Formwork Pipe Encasement	3100.108	512.50 sf	33.00 /mh	4,228	2.00 /sf	1,076		/sf		/sf		5,304	7,165	
Place Pipe Encasement	3310.195	27.00 cy	33.00 /mh	1,144	175.00 /cy	5,056		/cy		/cy		6,200	6,703	
Nails and Hardware	3150.200	512.50 sf	/sf		0.04 /sf	21		/sf		/sf		21	21	
Form Ties Specialty	3150.632	52.00 ea	33.00 /mh	343	5.00 /ea	260		/ea		/ea		603	754	
Pipe Tie Downs (Small)	3150.200	26.00 ea	33.00 /mh	3,432	100.00 /ea	2,600		/ea		/ea		6,032	7,542	
Dimension Lumber	3150.200	512.50 sf	/sf		0.50 /sf	256		/sf		/sf		256	256	
Oil SOG Form	3100.310	512.50 sf	/sf		0.02 /sf	10		/sf		/sf		10	10	
Finish- Rough	3350.110	250.00 sf	33.00 /mh	74	0.01 /sf	2		/sf		/sf		76	108	
Liquid Curing Compounds	3390.170	250.00 sf	33.00 /mh	17	0.06 /sf	15		/sf		/sf		32	39	
Rebar Supply	3200.980	2.70 tn	/tn		1,600.00 /tn	4,320		/tn		/tn		4,320	4,320	
Rebar Install Self	3200.980	2.70 tn	33.00 /mh	2,673	/tn			/tn		/tn		2,673	3,849	
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.25 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	950	1,800.00 /Mnth	450	1,400	1,400	
0330 4- 14" UV disinfect to permiate Storage MBR Encase														
Formwork Pipe Encasement	3100.108	411.13 sf	33.00 /mh	3,392	2.00 /sf	863		/sf		/sf		4,255	5,748	
Place Pipe Encasement	3310.195	33.00 cy	33.00 /mh	1,398	175.00 /cy	6,179		/cy		/cy		7,578	8,193	
Nails and Hardware	3150.200	411.13 sf	/sf		0.04 /sf	16		/sf		/sf		16	16	
Form Ties Specialty	3150.632	32.00 ea	33.00 /mh	211	5.00 /ea	160		/ea		/ea		371	464	
Pipe Tie Downs (Medium)	3150.200	11.00 ea	33.00 /mh	1,815	150.00 /ea	1,650		/ea		/ea		3,465	4,264	
Dimension Lumber	3150.200	411.13 sf	/sf		0.50 /sf	206		/sf		/sf		206	206	
Oil SOG Form	3100.310	411.13 sf	/sf		0.02 /sf	8		/sf		/sf		8	8	
Finish- Rough	3350.110	195.00 sf	33.00 /mh	58	0.01 /sf	1		/sf		/sf		59	85	
Liquid Curing Compounds	3390.170	195.00 sf	33.00 /mh	13	0.06 /sf	12		/sf		/sf		25	30	
Rebar Supply	3200.980	3.30 tn	/tn		1,600.00 /tn	5,280		/tn		/tn		5,280	5,280	
Rebar Install Self	3200.980	3.30 tn	33.00 /mh	3,267	/tn			/tn		/tn		3,267	4,704	
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.25 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	950	1,800.00 /Mnth	450	1,400	1,400	
Form Rectangle Columns	3100.110	224.00 sf	33.00 /mh	2,587	2.00 /sf	470		/sf		/sf		3,058	4,196	
0330 4- 3" Carbon Supplement under MBR slab Chem tanks to MBR Basin														
Formwork Pipe Encasement	3100.108	312.50 sf	33.00 /mh	2,578	2.00 /sf	656		/sf		/sf		3,234	4,369	
Place Pipe Encasement	3310.195	17.00 cy	33.00 /mh	720	175.00 /cy	3,183		/cy		/cy		3,904	4,221	
Nails and Hardware	3150.200	312.50 sf	/sf		0.04 /sf	13		/sf		/sf		13	13	
Form Ties Specialty	3150.632	32.00 ea	33.00 /mh	211	5.00 /ea	160		/ea		/ea		371	464	
Pipe Tie Downs (Small)	3150.200	16.00 ea	33.00 /mh	2,112	100.00 /ea	1,600		/ea		/ea		3,712	4,641	
Dimension Lumber	3150.200	312.50 sf	/sf		0.50 /sf	156		/sf		/sf		156	156	
Oil SOG Form	3100.310	312.50 sf	/sf		0.02 /sf	6		/sf		/sf		6	6	
Finish- Rough	3350.110	150.00 sf	33.00 /mh	45	0.01 /sf	1		/sf		/sf		45	65	
Liquid Curing Compounds	3390.170	150.00 sf	33.00 /mh	10	0.06 /sf	9		/sf		/sf		19	23	
Rebar Supply	3200.980	1.70 tn	/tn		1,600.00 /tn	2,720		/tn		/tn		2,720	2,720	
Rebar Install Self	3200.980	1.70 tn	33.00 /mh	1,683	/tn			/tn		/tn		1,683	2,424	
Form Rectangle Columns	3100.110	80.00 sf	33.00 /mh	924	2.00 /sf	168		/sf		/sf		1,092	1,499	
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.25 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	950	1,800.00 /Mnth	450	1,400	1,400	
0330 4- MBR Non Pot water pump to exterior														
Formwork Pipe Encasement	3100.108	62.50 sf	33.00 /mh	516	2.00 /sf	131		/sf		/sf		647	874	

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
0330 4- MBR Non Pot water pump to exterior													
Place Pipe Encasement	3310.195	5.00 cy	33.00 /mh	212	175.00 /cy	936		/cy		/cy		1,148	1,241
Nails and Hardware	3150.200	62.50 sf	/sf		0.04 /sf	3		/sf		/sf		3	3
Form Ties Specialty	3150.632	7.00 ea	33.00 /mh	46	5.00 /ea	35		/ea		/ea		81	102
Pipe Tie Downs (Small)	3150.200	4.00 ea	33.00 /mh	528	100.00 /ea	400		/ea		/ea		928	1,160
Dimension Lumber	3150.200	62.50 sf	/sf		0.50 /sf	31		/sf		/sf		31	31
Oil SOG Form	3100.310	62.50 sf	/sf		0.02 /sf	1		/sf		/sf		1	1
Finish- Rough	3350.110	25.00 sf	33.00 /mh	7	0.01 /sf	0		/sf		/sf		8	11
Liquid Curing Compounds	3390.170	25.00 sf	33.00 /mh	2	0.06 /sf	2		/sf		/sf		3	4
Form Rectangle Columns	3100.110	50.00 sf	33.00 /mh	578	2.00 /sf	105		/sf		/sf		683	937
Rebar Supply	3200.980	0.50 tn	/tn		1,600.00 /tn	800		/tn		/tn		800	800
Rebar Install Self	3200.980	0.50 tn	33.00 /mh	495	/tn			/tn		/tn		495	713
0330 4- Permate Effluent Pipe MBR Encase													
Formwork Pipe Encasement	3100.108	192.00 sf	33.00 /mh	1,584	2.00 /sf	403		/sf		/sf		1,987	2,684
Place Pipe Encasement	3310.195	13.00 cy	33.00 /mh	551	175.00 /cy	2,434		/cy		/cy		2,985	3,227
Nails and Hardware	3150.200	192.00 sf	/sf		0.04 /sf	8		/sf		/sf		8	8
Form Ties Specialty	3150.632	12.00 ea	33.00 /mh	79	5.00 /ea	60		/ea		/ea		139	174
Pipe Tie Downs (Medium)	3150.200	4.00 ea	33.00 /mh	660	150.00 /ea	600		/ea		/ea		1,260	1,550
Dimension Lumber	3150.200	192.00 sf	/sf		0.50 /sf	96		/sf		/sf		96	96
Oil SOG Form	3100.310	192.00 sf	/sf		0.02 /sf	4		/sf		/sf		4	4
Finish- Rough	3350.110	80.00 sf	33.00 /mh	24	0.01 /sf	0		/sf		/sf		24	35
Liquid Curing Compounds	3390.170	80.00 sf	33.00 /mh	5	0.06 /sf	5		/sf		/sf		10	12
Rebar Supply	3200.980	1.30 tn	/tn		1,600.00 /tn	2,080		/tn		/tn		2,080	2,080
Rebar Install Self	3200.980	1.30 tn	33.00 /mh	1,287	/tn			/tn		/tn		1,287	1,853
Form Rectangle Columns	3100.110	96.00 sf	33.00 /mh	1,109	2.00 /sf	202		/sf		/sf		1,310	1,798
0330 4- Dewatering Area Under Slab Encasement, sludge and polymer													
Formwork Pipe Encasement	3100.108	612.50 sf	33.00 /mh	5,053	2.00 /sf	1,286		/sf		/sf		6,339	8,563
Place Pipe Encasement	3310.195	34.00 cy	33.00 /mh	1,441	175.00 /cy	6,367		/cy		/cy		7,807	8,441
Nails and Hardware	3150.200	612.50 sf	/sf		0.04 /sf	25		/sf		/sf		25	25
Form Ties Specialty	3150.632	62.00 ea	33.00 /mh	409	5.00 /ea	310		/ea		/ea		719	899
Pipe Tie Downs (Small)	3150.200	31.00 ea	33.00 /mh	4,092	100.00 /ea	3,100		/ea		/ea		7,192	8,992
Dimension Lumber	3150.200	612.50 sf	/sf		0.50 /sf	306		/sf		/sf		306	306
Oil SOG Form	3100.310	612.50 sf	/sf		0.02 /sf	12		/sf		/sf		12	12
Finish- Rough	3350.110	300.00 sf	33.00 /mh	89	0.01 /sf	2		/sf		/sf		91	130
Liquid Curing Compounds	3390.170	300.00 sf	33.00 /mh	20	0.06 /sf	18		/sf		/sf		38	47
Rebar Supply	3200.980	3.40 tn	/tn		1,600.00 /tn	5,440		/tn		/tn		5,440	5,440
Rebar Install Self	3200.980	3.40 tn	33.00 /mh	3,366	/tn			/tn		/tn		3,366	4,847
Form Rectangle Columns	3100.110	240.00 sf	33.00 /mh	2,772	2.00 /sf	504		/sf		/sf		3,276	4,496
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.50 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	1,900	1,800.00 /Mnth	900	2,800	2,800
0330 4- Citric Acid to MBR Pipe Encase													
Formwork Pipe Encasement	3100.108	225.00 sf	33.00 /mh	1,856	2.00 /sf	473		/sf		/sf		2,329	3,146
Place Pipe Encasement	3310.195	12.00 cy	33.00 /mh	508	175.00 /cy	2,247		/cy		/cy		2,755	2,979
Nails and Hardware	3150.200	225.00 sf	/sf		0.04 /sf	9		/sf		/sf		9	9
Form Ties Specialty	3150.632	24.00 ea	33.00 /mh	158	5.00 /ea	120		/ea		/ea		278	348
Pipe Tie Downs (Small)	3150.200	12.00 ea	33.00 /mh	1,584	100.00 /ea	1,200		/ea		/ea		2,784	3,481
Dimension Lumber	3150.200	225.00 sf	/sf		0.50 /sf	113		/sf		/sf		113	113
Oil SOG Form	3100.310	225.00 sf	/sf		0.02 /sf	5		/sf		/sf		5	5
Finish- Rough	3350.110	100.00 sf	33.00 /mh	30	0.01 /sf	1		/sf		/sf		30	43
Liquid Curing Compounds	3390.170	100.00 sf	33.00 /mh	7	0.06 /sf	6		/sf		/sf		13	16
Rebar Supply	3200.980	1.20 tn	/tn		1,600.00 /tn	1,920		/tn		/tn		1,920	1,920
Rebar Install Self	3200.980	1.20 tn	33.00 /mh	1,188	/tn			/tn		/tn		1,188	1,711
Form Rectangle Columns	3100.110	120.00 sf	33.00 /mh	1,386	2.00 /sf	252		/sf		/sf		1,638	2,248
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.15 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	570	1,800.00 /Mnth	270	840	840
0330 4- MBR WAS Encasement													
Formwork Pipe Encasement	3100.108	108.00 sf	33.00 /mh	891	2.00 /sf	227		/sf		/sf		1,118	1,510
Place Pipe Encasement	3310.195	9.00 cy	33.00 /mh	381	175.00 /cy	1,685		/cy		/cy		2,067	2,234
Nails and Hardware	3150.200	108.00 sf	/sf		0.04 /sf	4		/sf		/sf		4	4
Form Ties Specialty	3150.632	10.00 ea	33.00 /mh	66	5.00 /ea	50		/ea		/ea		116	145
Pipe Tie Downs (Small)	3150.200	5.00 ea	33.00 /mh	660	100.00 /ea	500		/ea		/ea		1,160	1,450
Dimension Lumber	3150.200	108.00 sf	/sf		0.50 /sf	54		/sf		/sf		54	54
Oil SOG Form	3100.310	108.00 sf	/sf		0.02 /sf	2		/sf		/sf		2	2
Finish- Rough	3350.110	45.00 sf	33.00 /mh	13	0.01 /sf	0		/sf		/sf		14	20
Liquid Curing Compounds	3390.170	45.00 sf	33.00 /mh	3	0.06 /sf	3		/sf		/sf		6	7
Rebar Supply	3200.980	0.90 tn	/tn		1,600.00 /tn	1,440		/tn		/tn		1,440	1,440
Rebar Install Self	3200.980	0.90 tn	33.00 /mh	891	/tn			/tn		/tn		891	1,283
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.15 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	570	1,800.00 /Mnth	270	840	840
Form Rectangle Columns	3100.110	90.00 sf	33.00 /mh	1,040	2.00 /sf	189		/sf		/sf		1,229	1,686
0330 4- RAS Pipe Encasement MBR Under Slab													
Formwork Pipe Encasement	3100.108	152.00 sf	33.00 /mh	1,254	2.00 /sf	319		/sf		/sf		1,573	2,125
Place Pipe Encasement	3310.195	12.00 cy	33.00 /mh	508	175.00 /cy	2,247		/cy		/cy		2,755	2,979
Nails and Hardware	3150.200	152.00 sf	/sf		0.04 /sf	6		/sf		/sf		6	6
Form Ties Specialty	3150.632	10.00 ea	33.00 /mh	66	5.00 /ea	50		/ea		/ea		116	145
Pipe Tie Downs (Medium)	3150.200	4.00 ea	33.00 /mh	660	150.00 /ea	600		/ea		/ea		1,260	1,550
Dimension Lumber	3150.200	152.00 sf	/sf		0.50 /sf	76		/sf		/sf		76	76
Oil SOG Form	3100.310	152.00 sf	/sf		0.02 /sf	3		/sf		/sf		3	3
Finish- Rough	3350.110	60.00 sf	33.00 /mh	18	0.01 /sf	0		/sf		/sf		18	26
Liquid Curing Compounds	3390.170	60.00 sf	33.00 /mh	4	0.06 /sf	4		/sf		/sf		8	9
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.25 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	950	1,800.00 /Mnth	450	1,400	1,400
Rebar Supply	3200.980	1.20 tn	/tn		1,600.00 /tn	1,920		/tn		/tn		1,920	1,920
Rebar Install Self	3200.980	1.20 tn	33.00 /mh	1,188	/tn			/tn		/tn		1,188	1,711
Form Rectangle Columns	3100.110	96.00 sf	33.00 /mh	1,109	2.00 /sf	202		/sf		/sf		1,310	1,798
0330 4- MBR Alum encase under slab													

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total	
0330 4- MBR Alum encase under slab														
Formwork Pipe Encasement	3100.108	137.50 sf	33.00 /mh	1,134	2.00 /sf	289		/sf		/sf		1,423	1,922	
Place Pipe Encasement	3310.195	8.00 cy	33.00 /mh	339	175.00 /cy	1,498		/cy		/cy		1,837	1,986	
Nails and Hardware	3150.200	137.50 sf	/sf		0.04 /sf	6		/sf		/sf		6	6	
Form Ties Specialty	3150.632	15.00 ea	33.00 /mh	99	5.00 /ea	75		/ea		/ea		174	218	
Pipe Tie Downs (Small)	3150.200	7.00 ea	33.00 /mh	924	100.00 /ea	700		/ea		/ea		1,624	2,031	
Dimension Lumber	3150.200	137.50 sf	/sf		0.50 /sf	69		/sf		/sf		69	69	
Oil SOG Form	3100.310	137.50 sf	/sf		0.02 /sf	3		/sf		/sf		3	3	
Finish- Rough	3350.110	62.50 sf	33.00 /mh	19	0.01 /sf	0		/sf		/sf		19	27	
Liquid Curing Compounds	3390.170	62.50 sf	33.00 /mh	4	0.06 /sf	4		/sf		/sf		8	10	
Form Rectangle Columns	3100.110	40.00 sf	33.00 /mh	462	2.00 /sf	84		/sf		/sf		546	749	
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.20 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	760	1,800.00 /Mnth	360	1,120	1,120	
Rebar Supply	3200.980	0.80 tn	/tn		1,600.00 /tn	1,280		/tn		/tn		1,280	1,280	
Rebar Install Self	3200.980	0.80 tn	33.00 /mh	792	/tn			/tn		/tn		792	1,140	
40 SLD Aerated Sludge Holding Tank														
Concrete Concrete														
019-100 Water Test Basin														
Water Test Basins	3995.200	1.00 ea	33.00 /mh	1,056	/ea			/ea		/ea		1,056	1,521	
Pumps and hoses	3995.200	1.00 ls	/ls		1,500.00 /ls	1,500		/ls		/ls		1,500	1,500	
Temporary Bulkheads	3995.200	1.00 ls	33.00 /mh	132	250.00 /ls	250		/ls		/ls		382	440	
Urethane Injection System	3995.200	1.00 ls	33.00 /mh	6,336	3,500.00 /ls	3,500		750.00 /ls	750	/ls		10,586	13,374	
0302- Solids Tank Stair foundation and 6' X6' Pad at bottom														
4500 psi Concrete	3310.100	3.00 cy	/cy		198.00 /cy	636		/cy		/cy		636	636	
Slab Placement Count	3310.360	2.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0	
Pump Place Slab on Grade	3310.230	3.00 cy	33.00 /mh	159	/cy			/cy		/cy	35.00	112	271	341
Formwork S.O.G. Edge Form > 1'	3100.120	42.00 sf	33.00 /mh	693	2.00 /sf	88		/sf		/sf		781	1,086	
Formwork S.O.G. Edge Form < 1'	3100.120	16.08 sf	33.00 /mh	265	2.00 /sf	34		/sf		/sf		299	416	
Finegrade Below Concrete	3150.650	46.00 sf	33.00 /mh	21	/sf			/sf		/sf		21	31	
Finish- Hard Trowel	3350.110	46.00 sf	33.00 /mh	21	/sf			/sf		/sf		21	31	
Liquid Curing Compounds	3390.170	46.00 sf	33.00 /mh	3	0.06 /sf	3		/sf		/sf		6	7	
Chamfer 3/4"	3150.625	14.00 lf	33.00 /mh	23	0.25 /lf	4		/lf		/lf		27	37	
Road Base Below Concrete	2305.300	1.70 cy	33.00 /mh	56	25.00 /ton	84		/cy		/cy		140	165	
Expansion Joint	3150.720	4.02 sf	33.00 /mh	13	12.00 /sf	51		/sf		/sf		64	70	
Expansion Joint Sealant	3150.720	6.00 lf	33.00 /mh	20	2.00 /lf	13		/lf		/lf		32	41	
Oil SOG Form	3100.310	58.08 sf	/sf		0.02 /sf	1		/sf		/sf		1	1	
Nails and Hardware	3150.200	58.08 sf	/sf		0.04 /sf	2		/sf		/sf		2	2	
Dimension Lumber	3150.200	58.08 sf	/sf		0.50 /sf	29		/sf		/sf		29	29	
SOG Rebar	3210.104	0.20 tn	33.00 /mh	264	1,600.00 /tn	336		/tn		/tn		600	716	
0308- Solids Tank Base Slab														
4500 psi Concrete	3310.100	202.00 cy	/cy		198.00 /cy	42,796		/cy		/cy		42,796	42,796	
Slab Placement Count	3310.360	4.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0	
Pump Place Slab on Grade	3310.230	202.00 cy	33.00 /mh	5,706	/cy			/cy		/cy	35.00	7,565	13,271	15,782
Formwork S.O.G. Edge Form > 1' Circular Slab	3100.120	417.00 sf	33.00 /mh	6,881	2.00 /sf	876		/sf		/sf		7,756	10,784	
Formwork S.O.G. Const Joints > 1'	3100.120	290.00 sf	33.00 /mh	4,402	2.00 /sf	609		/sf		/sf		5,011	6,948	
CJ Prep Slab	3350.170	232.00 sf	33.00 /mh	191	0.15 /sf	35		/sf		/sf		226	310	
Finegrade Below Concrete	3150.650	2,642.08 sf	33.00 /mh	1,221	/sf			/sf		/sf		1,221	1,758	
Finish- Hard Trowel	3350.110	2,642.08 sf	33.00 /mh	1,221	/sf			/sf		/sf		1,221	1,758	
Water Cure	3390.170	2,642.08 sf	33.00 /mh	174	0.10 /sf	264		/sf		/sf		439	515	
Blockouts in Concrete	3150.194	16.00 sf	33.00 /mh	185	2.00 /sf	32		/sf		/sf		217	298	
Waterstop 6" Flat	3510.610	320.00 lf	33.00 /mh	1,056	6.00 /lf	2,016		/lf		/lf		3,072	3,537	
Keyway 4"	3150.620	116.00 lf	33.00 /mh	766	1.00 /lf	122		/lf		/lf		887	1,224	
Oil SOG Form	3100.310	417.00 sf	/sf		0.02 /sf	8		/sf		/sf		8	8	
Nails and Hardware	3150.200	417.00 sf	/sf		0.04 /sf	17		/sf		/sf		17	17	
Dimension Lumber	3150.200	417.00 sf	/sf		0.50 /sf	209		/sf		/sf		209	209	
Waterstop Fitting - Vertical Tee	3510.610	8.00 ea	33.00 /mh	264	71.00 /ea	568		/ea		/ea		832	948	
Waterstop Fitting - Flat Cross	3510.610	1.00 ea	33.00 /mh	33	102.00 /ea	102		/ea		/ea		135	150	
Flow Fill under slab at thickened	3310.105	25.00 cy	33.00 /mh	1,238	152.00 /cy	3,990		/cy		/cy		5,228	5,772	
0309- Sludge Tank Walls														
Pump Place Walls	3310.260	190.66 cy	33.00 /mh	8,415	/cy			/cy		/cy	35.00	7,140	15,555	19,258
4500 psi Concrete	3310.100	190.66 cy	/cy		198.00 /cy	40,392		/cy		/cy		40,392	40,392	
Wall Placement Count	3310.360	4.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0	
Radius Gang Forms 16- >	3100.182	7,740.88 sf	33.00 /mh	38,317	6.00 /sf	48,768		/sf		/sf		87,085	103,945	
Wall Bulkhead Forms	3150.192	117.04 sf	33.00 /mh	1,777	2.00 /sf	246		/sf		/sf		2,022	2,804	
CJ Prep Walls	3350.170	351.03 sf	33.00 /mh	290	0.15 /sf	53		/sf		/sf		342	470	
Finish- Top of Wall	3350.110	233.99 sf	33.00 /mh	108	/sf			/sf		/sf		108	156	
Liquid Curing Walls	3390.170	7,974.87 sf	33.00 /mh	263	0.06 /sf	478		/sf		/sf		742	857	
Grind/Patch Walls	3350.130	7,740.88 sf	33.00 /mh	3,065	0.07 /sf	542		/sf		/sf		3,607	4,956	
Blockouts in Concrete	3150.194	24.00 sf	33.00 /mh	277	2.00 /sf	48		/sf		/sf		325	447	
Waterstop 6" Flat	3510.610	268.00 lf	33.00 /mh	884	6.00 /lf	1,688		/lf		/lf		2,573	2,962	
Keyway 4"	3150.620	88.00 lf	33.00 /mh	581	1.00 /lf	92		/lf		/lf		673	929	
Chamfer 3/4"	3150.625	352.00 lf	33.00 /mh	581	0.25 /lf	92		/lf		/lf		673	929	
Rub Walls	3350.140	6,160.00 sf	33.00 /mh	10,164	0.25 /sf	1,540		/sf		/sf		11,704	16,176	
Oil Wall Forms	3100.310	7,740.88 sf	/sf		0.02 /sf	155		/sf		/sf		155	155	
Nails and Hardware	3150.200	7,740.88 sf	/sf		0.04 /sf	310		/sf		/sf		310	310	
Form Ties 16"	3150.632	1,935.22 ea	/ea		2.80 /ea	5,419		/ea		/ea		5,419	5,419	
Dimension Lumber	3150.200	7,740.88 sf	/sf		0.50 /sf	3,870		/sf		/sf		3,870	3,870	
0330 4- Solids Tank to Dewatering 6" Encasement under slab														
Formwork Pipe Encasement	3100.108	197.50 sf	33.00 /mh	1,629	2.00 /sf	415		/sf		/sf		2,044	2,761	
Place Pipe Encasement	3310.195	14.00 cy	33.00 /mh	593	175.00 /cy	2,622		/cy		/cy		3,215	3,476	
Nails and Hardware	3150.200	197.50 sf	/sf		0.04 /sf	8		/sf		/sf		8	8	
Form Ties Specialty	3150.632	21.00 ea	33.00 /mh	139	5.00 /ea	105		/ea		/ea		244	305	
Pipe Tie Downs (Small)	3150.200	10.00 ea	33.00 /mh	1,320	100.00 /ea	1,000		/ea		/ea		2,320	2,901	

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total	
0330 4- Solids Tank to Dewatering 6" Encasement under slab														
Dimension Lumber	3150.200	197.50 sf	/sf		0.50 /sf	99		/sf		/sf		99	99	
Oil SOG Form	3100.310	197.50 sf	/sf		0.02 /sf	4		/sf		/sf		4	4	
Finish- Rough	3350.110	92.50 sf	33.00 /mh	27	0.01 /sf	1		/sf		/sf		28	40	
Liquid Curing Compounds	3390.170	92.50 sf	33.00 /mh	6	0.06 /sf	6		/sf		/sf		12	14	
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.25 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	950	1,800.00 /Mnth	450	1,400	1,400	
Rebar Supply	3200.980	1.40 tn	/tn		1,600.00 /tn	2,240		/tn		/tn		2,240	2,240	
Rebar Install Self	3200.980	14.00 tn	33.00 /mh	13,860	/tn			/tn		/tn		13,860	19,958	
Form Rectangle Columns	3100.110	70.00 sf	33.00 /mh	809	2.00 /sf	147		/sf		/sf		956	1,311	
42 SDL Site Drain Lift Station														
Concrete Concrete														
0302- In Plant Lift Station Top pipe support slab														
4500 psi Concrete	3310.100	2.00 cy	/cy		198.00 /cy	424		/cy		/cy		424	424	
Slab Placement Count	3310.360	2.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0	
Truck Place Slab on Grade	3310.230	2.00 cy	33.00 /mh	141	/cy			/cy		/cy		141	203	
Formwork S.O.G. Edge Form < 1'	3100.120	32.16 sf	33.00 /mh	371	2.00 /sf	68		/sf		/sf		439	602	
Finegrade Below Concrete	3150.650	76.00 sf	33.00 /mh	35	/sf			/sf		/sf		35	51	
Finish- Hard Trowel	3350.110	76.00 sf	33.00 /mh	35	/sf			/sf		/sf		35	51	
Liquid Curing Compounds	3390.170	76.00 sf	33.00 /mh	5	0.06 /sf	5		/sf		/sf		10	12	
Road Base Below Concrete	2305.300	2.82 cy	33.00 /mh	93	25.00 /ton	139		/cy		/cy		232	273	
Expansion Joint	3150.720	6.70 sf	33.00 /mh	22	12.00 /sf	84		/sf		/sf		107	116	
Expansion Joint Sealant	3150.720	10.00 lf	33.00 /mh	33	2.00 /lf	21		/lf		/lf		54	69	
Oil SOG Form	3100.310	32.16 sf	/sf		0.02 /sf	1		/sf		/sf		1	1	
Nails and Hardware	3150.200	32.16 sf	/sf		0.04 /sf	1		/sf		/sf		1	1	
Dimension Lumber	3150.200	32.16 sf	/sf		0.50 /sf	16		/sf		/sf		16	16	
SOG Rebar	3210.104	0.24 tn	33.00 /mh	312	1,600.00 /tn	397		/tn		/tn		708	845	
0302-B Concrete Fill at In Plant Lift Station														
4500 psi Concrete	3310.100	2.00 cy	/cy		198.00 /cy	424		/cy		/cy		424	424	
Truck Place Slab on Grade	3310.230	2.00 cy	33.00 /mh	282	/cy			/cy		/cy		282	407	
Formwork S.O.G. Edge Form < 1'	3100.120	74.00 sf	33.00 /mh	855	2.00 /sf	155		/sf		/sf		1,010	1,386	
Finish- Hard Trowel	3350.110	36.00 sf	33.00 /mh	17	/sf			/sf		/sf		17	24	
Liquid Curing Compounds	3390.170	36.00 sf	33.00 /mh	2	0.06 /sf	2		/sf		/sf		5	6	
Oil SOG Form	3100.310	74.00 sf	/sf		0.02 /sf	1		/sf		/sf		1	1	
Nails and Hardware	3150.200	74.00 sf	/sf		0.04 /sf	3		/sf		/sf		3	3	
Dimension Lumber	3150.200	74.00 sf	/sf		0.50 /sf	37		/sf		/sf		37	37	
CJ Prep Slab	3350.170	36.00 sf	33.00 /mh	30	0.15 /sf	5		/sf		/sf		35	48	
50 ODC Odor Control														
Concrete Concrete														
0302- Headworks Odor Control Slab														
4500 psi Concrete	3310.100	17.78 cy	/cy		198.00 /cy	3,766		/cy		/cy		3,766	3,766	
Truck Place Slab on Grade	3310.230	17.78 cy	33.00 /mh	753	/cy			/cy		/cy		753	1,085	
Formwork S.O.G. Edge Form < 1'	3100.120	92.00 sf	33.00 /mh	1,063	2.00 /sf	193		/sf		/sf		1,256	1,723	
Finegrade Below Concrete	3150.650	480.00 sf	33.00 /mh	222	/sf			/sf		/sf		222	319	
Finish- Hard Trowel	3350.110	480.00 sf	33.00 /mh	222	/sf			/sf		/sf		222	319	
Liquid Curing Compounds	3390.170	480.00 sf	33.00 /mh	32	0.06 /sf	29		/sf		/sf		60	74	
Blockouts in Concrete	3150.194	24.00 sf	33.00 /mh	277	2.00 /sf	48		/sf		/sf		325	447	
Road Base Below Concrete	2305.300	17.78 cy	33.00 /mh	587	25.00 /ton	880		/cy		/cy		1,467	1,725	
Oil SOG Form	3100.310	92.00 sf	/sf		0.02 /sf	2		/sf		/sf		2	2	
Nails and Hardware	3150.200	92.00 sf	/sf		0.04 /sf	4		/sf		/sf		4	4	
Dimension Lumber	3150.200	92.00 sf	/sf		0.50 /sf	46		/sf		/sf		46	46	
SOG Rebar	3210.104	2.22 tn	33.00 /mh	2,933	1,600.00 /tn	3,733		/tn		/tn		6,666	7,956	
60 ELE Electrical Bldg														
Concrete Concrete														
0302- Electric Building Footing														
4500 psi Concrete	3310.100	5.33 cy	/cy		198.00 /cy	1,130		/cy		/cy		1,130	1,130	
Slab Placement Count	3310.360	2.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0	
Pump Place Slab on Grade	3310.230	5.33 cy	33.00 /mh	565	/cy			/cy		/cy	35.00	200	765	1,013
Formwork S.O.G. Edge Form < 1'	3100.120	80.00 sf	33.00 /mh	924	2.00 /sf	168		/sf		/sf		1,092	1,499	
Formwork S.O.G. Const Joints < 1'	3100.120	8.00 sf	33.00 /mh	121	2.00 /sf	17		/sf		/sf		138	192	
CJ Prep Slab	3350.170	8.00 sf	33.00 /mh	7	0.15 /sf	1		/sf		/sf		8	11	
Finegrade Below Concrete	3150.650	144.00 sf	33.00 /mh	950	/sf			/sf		/sf		950	1,369	
Finish- Hard Trowel	3350.110	144.00 sf	33.00 /mh	67	/sf			/sf		/sf		67	96	
Liquid Curing Compounds	3390.170	144.00 sf	33.00 /mh	10	0.06 /sf	9		/sf		/sf		18	22	
Oil SOG Form	3100.310	88.00 sf	/sf		0.02 /sf	2		/sf		/sf		2	2	
Nails and Hardware	3150.200	80.00 sf	/sf		0.04 /sf	3		/sf		/sf		3	3	
Dimension Lumber	3150.200	80.00 sf	/sf		0.50 /sf	40		/sf		/sf		40	40	
0302- Electric Building Floor Slab														
4500 psi Concrete	3310.100	7.94 cy	/cy		198.00 /cy	1,683		/cy		/cy		1,683	1,683	
Slab Placement Count	3310.360	3.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0	
Pump Place Slab on Grade	3310.230	7.94 cy	33.00 /mh	841	/cy			/cy		/cy	35.00	297	1,139	1,509
Formwork S.O.G. Edge Form < 1'	3100.120	54.50 sf	33.00 /mh	629	2.00 /sf	114		/sf		/sf		744	1,021	
Formwork S.O.G. Const Joints < 1'	3100.120	20.00 sf	33.00 /mh	304	2.00 /sf	42		/sf		/sf		346	479	
CJ Prep Slab	3350.170	20.00 sf	33.00 /mh	17	0.15 /sf	3		/sf		/sf		20	27	
Finegrade Below Concrete	3150.650	320.10 sf	33.00 /mh	148	/sf			/sf		/sf		148	213	
Finish- Hard Trowel	3350.110	320.10 sf	33.00 /mh	148	/sf			/sf		/sf		148	213	
Liquid Curing Compounds	3390.170	320.10 sf	33.00 /mh	21	0.06 /sf	19		/sf		/sf		40	50	
Blockouts in Concrete	3150.194	48.00 sf	33.00 /mh	554	2.00 /sf	96		/sf		/sf		650	894	
Expansion Joint	3150.720	92.00 sf	33.00 /mh	304	12.00 /sf	1,159		/sf		/sf		1,463	1,596	
Expansion Joint Sealant	3150.720	92.00 lf	33.00 /mh	304	2.00 /lf	193		/lf		/lf		497	630	
Oil SOG Form	3100.310	61.65 sf	/sf		0.02 /sf	1		/sf		/sf		1	1	
Nails and Hardware	3150.200	54.50 sf	/sf		0.04 /sf	2		/sf		/sf		2	2	

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total	
0302- Electric Building Floor Slab														
Dimension Lumber	3150.200	54.50 sf	/sf		0.50 /sf	27		/sf		/sf		27	27	
0302- Electric Building Stoop at front Door														
4500 psi Concrete	3310.100	1.00 cy	/cy		198.00 /cy	212		/cy		/cy		212	212	
Slab Placement Count	3310.360	1.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0	
Truck Place Slab on Grade	3310.230	1.00 cy	33.00 /mh	141	/cy			/cy		/cy		141	203	
Formwork S.O.G. Edge Form < 1'	3100.120	16.08 sf	33.00 /mh	186	2.00 /sf	34		/sf		/sf		219	301	
Finegrade Below Concrete	3150.650	36.00 sf	33.00 /mh	17	/sf			/sf		/sf		17	24	
Finish- Hard Trowel	3350.110	36.00 sf	33.00 /mh	17	/sf			/sf		/sf		17	24	
Liquid Curing Compounds	3390.170	36.00 sf	33.00 /mh	2	0.06 /sf	2		/sf		/sf		5	6	
Blockouts in Concrete	3150.194	48.00 sf	33.00 /mh	554	2.00 /sf	96		/sf		/sf		650	894	
Road Base Below Concrete	2305.300	1.33 cy	33.00 /mh	44	25.00 /ton	66		/cy		/cy		110	129	
Expansion Joint	3150.720	4.02 sf	33.00 /mh	13	12.00 /sf	51		/sf		/sf		64	70	
Expansion Joint Sealant	3150.720	6.00 lf	33.00 /mh	20	2.00 /lf	13		/lf		/lf		32	41	
Oil SOG Form	3100.310	16.08 sf	/sf		0.02 /sf	0		/sf		/sf		0	0	
Nails and Hardware	3150.200	16.08 sf	/sf		0.04 /sf	1		/sf		/sf		1	1	
Dimension Lumber	3150.200	16.08 sf	/sf		0.50 /sf	8		/sf		/sf		8	8	
SOG Rebar	3210.104	0.11 tn	33.00 /mh	148	1,600.00 /tn	189		/tn		/tn		337	402	
0302- Electric Room HVAC Slab														
4500 psi Concrete	3310.100	6.26 cy	/cy		198.00 /cy	1,326		/cy		/cy		1,326	1,326	
Truck Place Slab on Grade	3310.230	6.26 cy	33.00 /mh	442	/cy			/cy		/cy		442	636	
Formwork S.O.G. Edge Form < 1'	3100.120	52.00 sf	33.00 /mh	601	2.00 /sf	109		/sf		/sf		710	974	
Finegrade Below Concrete	3150.650	169.00 sf	33.00 /mh	78	/sf			/sf		/sf		78	112	
Finish- Hard Trowel	3350.110	169.00 sf	33.00 /mh	78	/sf			/sf		/sf		78	112	
Liquid Curing Compounds	3390.170	169.00 sf	33.00 /mh	11	0.06 /sf	10		/sf		/sf		21	26	
Blockouts in Concrete	3150.194	8.00 sf	33.00 /mh	92	2.00 /sf	16		/sf		/sf		108	149	
Road Base Below Concrete	2305.300	6.26 cy	33.00 /mh	207	25.00 /ton	310		/cy		/cy		516	607	
Expansion Joint	3150.720	13.00 sf	33.00 /mh	43	12.00 /sf	164		/sf		/sf		207	226	
Expansion Joint Sealant	3150.720	13.00 lf	33.00 /mh	43	2.00 /lf	27		/lf		/lf		70	89	
Oil SOG Form	3100.310	52.00 sf	/sf		0.02 /sf	1		/sf		/sf		1	1	
Nails and Hardware	3150.200	52.00 sf	/sf		0.04 /sf	2		/sf		/sf		2	2	
Dimension Lumber	3150.200	52.00 sf	/sf		0.50 /sf	26		/sf		/sf		26	26	
SOG Rebar	3210.104	0.78 tn	33.00 /mh	1,032	1,600.00 /tn	1,314		/tn		/tn		2,346	2,800	
0303- Electric Room Stem Walls														
Pump Place Walls	3310.260	14.14 cy	33.00 /mh	998	/cy			/cy		/cy	35.00 /cy	529	1,528	1,967
4500 psi Concrete	3310.100	14.14 cy	/cy		198.00 /cy	2,995		/cy		/cy		2,995	2,995	
Wall Placement Count	3310.360	1.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0	
Rented Form System 0-4'	3100.180	574.00 sf	33.00 /mh	3,788	1.75 /sf	1,055		/sf		/sf		4,843	6,510	
Wall Bulkhead Forms	3150.192	9.31 sf	33.00 /mh	141	2.00 /sf	20		/sf		/sf		161	223	
CJ Prep Walls	3350.170	118.37 sf	33.00 /mh	98	0.15 /sf	18		/sf		/sf		115	158	
Finish- Top of Wall	3350.110	109.06 sf	33.00 /mh	50	/sf			/sf		/sf		50	73	
Liquid Curing Walls	3390.170	683.06 sf	33.00 /mh	23	0.06 /sf	41		/sf		/sf		64	73	
Grind/Patch Walls	3350.130	574.00 sf	33.00 /mh	227	0.07 /sf	40		/sf		/sf		267	368	
Blockouts in Concrete	3150.194	96.00 sf	33.00 /mh	1,109	2.00 /sf	192		/sf		/sf		1,301	1,789	
Rub Walls	3350.140	164.00 sf	33.00 /mh	271	0.25 /sf	41		/sf		/sf		312	431	
Oil Wall Forms	3100.310	574.00 sf	/sf		0.02 /sf	11		/sf		/sf		11	11	
Nails and Hardware	3150.200	574.00 sf	/sf		0.04 /sf	23		/sf		/sf		23	23	
Form Ties 16"	3150.632	143.50 ea	/ea		2.80 /ea	402		/ea		/ea		402	402	
Dimension Lumber	3150.200	574.00 sf	/sf		0.50 /sf	287		/sf		/sf		287	287	
Rebar Templates	3200.980	82.00 lf	33.00 /mh	135	0.50 /lf	41		/lf		/lf		176	236	
0310- Electric Room Equip Pads														
Equipment Pad Form 6"	3100.164	53.00 sf	33.00 /mh	612	2.00 /sf	111		/sf		/sf		723	993	
Oil Equipment Pad Form	3100.310	53.00 sf	/sf		0.02 /sf	1		/sf		/sf		1	1	
4500 psi Concrete	3310.100	4.00 cy	/cy		198.00 /cy	847		/cy		/cy		847	847	
Other Placement Count	3310.360	2.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0	
Buggy Place Equipment Pads	3310.300	4.00 cy	33.00 /mh	424	/cy			/cy		/cy		424	610	
Liquid Curing Compounds	3390.170	150.00 sf	33.00 /mh	10	0.06 /sf	9		/sf		/sf		19	23	
Finish- Hard Trowel	3350.110	150.00 sf	33.00 /mh	69	/sf			/sf		/sf		69	100	
Chamfer	3150.625	56.00 lf	33.00 /mh	28	0.25 /lf	15		/lf		/lf		42	54	
Misc. Pad Rebar	3210.104	0.35 tn	33.00 /mh	458	1,600.00 /tn	582		/tn		/tn		1,040	1,242	
Nails and Hardware	3150.200	53.00 sf	/sf		0.04 /sf	2		/sf		/sf		2	2	
Drill and Epoxy #4	3210.101	106.00 ea	33.00 /mh	875	5.00 /ea	557		/ea		/ea		1,431	1,816	
034100 Precast Structural Concrete														
01 CIV Civil														
Sitework Sitework														
026-1- Precast Concrete All														
Supply Precast Package (include Pressure clean out)	2327.005	1.00 ls	/ls		50,220.00 /ls	50,220		/ls		/ls		50,220	50,220	
In plant lift station (may be cast in place)	2327.020	1.00 ls	33.00 /mh		65,000.00 /ls	65,000		/ls		/ls		65,000	65,000	
MH-1 (4' dia 6' tall)	2327.010	1.00 ea	33.00 /mh		0.01 /ea	0		/ea		/ea		0	0	
MH-2 (4' dia 6' tall)	2327.010	1.00 ea	33.00 /mh		0.01 /ea	0		/ea		/ea		0	0	
MH-3 (4' dia 6' tall)	2327.010	1.00 ea	33.00 /mh		0.01 /ea	0		/ea		/ea		0	0	
MH-4 (5' dia 5' tall)	2327.010	1.00 ea	33.00 /mh		0.01 /ea	0		/ea		/ea		0	0	
MH-5 (5' dia 10 tall)	2327.010	1.00 ea	33.00 /mh		0.01 /ea	0		/ea		/ea		0	0	
MH-6 Chem Vault Manhole	2327.010	1.00 ea	33.00 /mh		0.01 /ea	0		/ea		/ea		0	0	
In Plant Pump Station (5' X 8' Box X 23' deep)	2327.010	1.00 ea	33.00 /mh		0.01 /ea	0		/ea		/ea		0	0	
Specialty Lifting Equipment	2327.010	1.00 ls	33.00 /mh	396	5,000.00 /ls	5,000		/ls		/ls		5,396	5,570	
Manhole Meter Vault for Potable Water	2327.010	1.00 ls	33.00 /mh	1,056	12,000.00 /ls	12,000		/ls		/ls		13,056	13,521	
Instrument - Flow - Magnetic Flow Meter -6" incoming water	17200.000	1.00 ea	33.00 /mh	132	0.00 /ea	0	8,000	/ea		/ea		8,132	8,190	
3rd Party Crane w Operator (set In Plant Lift Station)	1900.100	1.00 ls	/ls		/ls		6,000	/ls		/ls		6,000	6,000	
Splash Blocks	3450.110	12.00 ea	33.00 /mh	99	75.00 /ea	900		/mh		/ea		999	1,043	
040000 Masonry														

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
00 GEN General													
Masonry Masonry													
04000 - Masonry for Headworks and Electric Buiding													
Sub - Masonry Subcontr	4000.980	1.00 ls	/ls		/ls		350,000	/ls		/ls		350,000	350,000
Sub - Masonry Bond	4000.980	1.00 ls	/ls		/ls			/ls		/ls			
Temp Shore Opening Medium (2-4' wide)	4000.210	20.00 ea	33.00 /mh	2,640	50.00 /ea	1,000		/ea		/ea		3,640	4,802
Temp Shore Opening Large (double door sna garage doors)	4000.210	4.00 ea	33.00 /mh	2,112	50.00 /ea	200		/ea		/ea		2,312	3,241
Masonry Rebar Supply	3200.980	1.00 ls	/ls		21,600.00 /ls	21,600		/ls		/ls		21,600	21,600
Masonry Rebar Dray	4080.210	1.00 mnhr	33.00 /mh	792	/mnhr			/mnhr		/mnhr		792	1,140
RT Telescopic Forklift (12,000 lb) (130 HP) (L)	1900.300	0.50 Mnth	/Mnth		/Mnth			4,200.00 /Mnth	2,100	1,500.00 /Mnth	750	2,850	2,850
051200 Structural Steel Framing													
10 HWK Headworks Building													
Metals Metals													
05 50- Trusses & Metal Deck													
Trusses	5001.130	19.00 ea	33.00 /mh	7,524	/ea			/ea		/ea		7,524	10,835
Embed Plate (2) 3/8"x6"x9" connected w/ (2) 5/8" x 8" A Bolt	5001.145	38.00 ea	33.00 /mh	1,254	0.01 /ea	0		/ea		/ea		1,254	1,806
Field Welding	5000.985	40.00 hrs	33.00 /mh	1,320	/hrs		5,000	/hrs		/hrs		6,320	6,901
Grove RT750, 50 ton (190 HP) (L)	1900.100	1.00 mnth	4,600.00 /mnth	4,600	450.00 /mnth	450		9,500.00 /mnth	9,500	2,250.00 /mnth	2,250	16,800	18,824
Steel Roof Decking	5050.200	7,131.00 sf	/sf		0.00 /sf	0		/sf		/sf			
Hilti X-EDN 19 THQ12 Powder Activiated Fasteners	5001.061	2,964.00 ea	33.00 /mh	4,891	1.00 /ea	2,964		/ea		/ea		7,855	10,006
Punchlok (Decking Overlap, every 12") or 1/2" Dia Seam Weld	5001.061	2,106.00 ea	33.00 /mh	3,475	1.00 /ea	2,106		/ea		/ea		5,581	7,110
Metal Truss Bracing	6170.500	1,332.00 ea	33.00 /mh	8,791	2.00 /ea	2,850		/ea		/ea		11,642	15,510
Metal Truss Bracing outlooker studs	6170.500	44.00 ea	33.00 /mh	4,356	10.00 /ea	471		/ea		/ea		4,827	6,743
Outlooker plates embed	3410.120	40.00 ea	33.00 /mh	1,320	/ea			/ea		/ea		1,320	1,901
Truss Package Supply	6170.300	1.00 ls	/ls		81,732.00 /ls	81,732		/ls		/ls		81,732	81,732
Boom Lift (L)	1900.300	3.00 Mnth	/Mnth		/Mnth			3,200.00 /Mnth	9,600	1,250.00 /Mnth	3,750	13,350	13,350
Genie 32' Scissor Lift (Requires Power Source)	1900.300	2.00 Mnth	/Mnth		/Mnth			950.00 /Mnth	1,900	100.00 /Mnth	200	2,100	2,100
055000 Misc. Metals													
00 GEN General													
Metals Metals													
05 50- Purchase Misc. Metals													
Purchase Misc Metals	5001.130	1.00 ls	33.00 /mh		873,713.00 /ls	873,713		/ls		/ls		873,713	873,713
Kobelco CK1100G-2 - 110 Ton (332 HP) (L)	1900.100	0.50 mnth	5,629.00 /mnth	2,815	550.00 /mnth	275		14,000.00 /mnth	7,000	2,500.00 /mnth	1,250	11,340	12,578
RT Telescopic Forklift (12,000 lb) (130 HP) (L)	1900.300	2.00 Mnth	/Mnth		/Mnth			4,200.00 /Mnth	8,400	1,500.00 /Mnth	3,000	11,400	11,400
Genie 32' Scissor Lift (Requires Power Source)	1900.300	2.00 Mnth	/Mnth		/Mnth			950.00 /Mnth	1,900	100.00 /Mnth	200	2,100	2,100
Additional Grating Supports at MBR	5120.004	1.00 ls	/ls		75,000.00 /ls	75,000		/ls		/ls		75,000	75,000
Grove RT750, 50 ton (190 HP) (L)	1900.100	0.50 mnth	4,600.00 /mnth	2,300	450.00 /mnth	225		9,500.00 /mnth	4,750	2,250.00 /mnth	1,125	8,400	9,412
01 CIV Civil													
Metals Metals													
05 55- Bollards													
Bollards - 8" x 7"	5001.125	45.00 ea	33.00 /mh	29,700	0.01 /ea	0		/ea		/ea		29,700	42,768
Excavation - Dental	2317.105	45.00 cy	33.00 /mh		/cy			/cy		/cy			
Backfill - Dental	2319.302	14.00 cy	33.00 /mh		/cy			/cy		/cy			
4500 psi Concrete	3310.100	29.00 cy	/cy		198.00 /cy	6,144		/cy		/cy		6,144	6,144
Finish- Broom	3350.110	20.00 sf	33.00 /mh	9	0.01 /sf	0		/sf		/sf		9	13
Liquid Curing Compounds	3390.170	20.00 sf	33.00 /mh	1	0.06 /sf	1		/sf		/sf		3	3
Bobcat Skid Steer (85hp)- track (L) with auger	1900.131	1.00 Mnth	/Mnth		/Mnth			4,300.00 /Mnth	4,300	2,000.00 /Mnth	2,000	6,300	6,300
Formwork Sonotube 24"	3100.112	180.00 lf	33.00 /mh		16.00 /lf	3,024		/lf		/lf		3,024	3,024
09 IPS Influent Pump Station													
Metals Metals													
05 50- Manhole Steps													
Install Manhole Steps	5001.130	7.00 ea	33.00 /mh	578	/ea			/ea		/ea		578	832
Epoxy	5001.051	1.00 ls	33.00 /mh	2	150.00 /ls	150		/ls		/ls		152	152
10 HWK Headworks Building													
Metals Metals													
05 50- Metal Frame - 10x12 Doors 10A902													
3/16" Bent Steel Plate w/1/2" Dia x 6" Lng AB @32" OC GALV	5001.130	6.00 ea	33.00 /mh	2,376	/ea			/ea		/ea		2,376	3,421
05 50- Metal Floor Angle													
Metal Floor Angle - Imbedded 12' wide	5001.130	3.00 ea	33.00 /mh	1,584	/ea			/ea		/ea		1,584	2,281
05 50- Cast Stone Sill Angle w/Bolt 10A903													
Angle 3x3 w/Bolt includes electric building	5001.130	390.00 lf	33.00 /mh	2,574	/lf			/lf		/lf		2,574	3,707
Epoxy Anchor 3/8 x 5in SS 304	5001.053	390.00 ea	33.00 /mh	1,287	8.00 /ea	3,120		/ea		/ea		4,407	4,973
11 EQE EQ Basin													
Metals Metals													
05 02- Crane Assembly													
Erect Steel W 10x26 Beam (22'-9" Long)	5120.010	1.00 ea	33.00 /mh	1,056	/ea			/ea		/ea		1,056	1,521
5/8" Dia Square Bend U Bolts w/2" SS Washers & Nuts	5120.010	4.00 ea	/ea		0.01 /lbs	1		/ea		/ea		1	1
Erect Steel W 10x12 Columns (6'-10" Tall)	5120.010	2.00 ea	33.00 /mh	528	/ea			/ea		/ea		528	760
3/4" SS Fasteners & Hardware	5001.063	8.00 ea	33.00 /mh		0.01 /ea	0		/ea		/ea		0	0
4x4x1/4 HSS w/8x4x1/4" Plate	5120.004	4.00 ea	33.00 /mh	528	/ea			/ea		/ea		528	760
3/4" SS Fasteners	5001.063	16.00 ea	33.00 /mh		0.01 /ea	0		/ea		/ea		0	0
Base Plate	5124.005	4.00 ea	/ea		0.00 /lbs	0		/ea		/ea			
3/4" SS Anchor Bolts 10" Long	5001.063	16.00 ea	33.00 /mh	132	25.00 /ea	400		/ea		/ea		532	590
Grout Bearing Plates	3150.700	4.00 ea	33.00 /mh	132	10.00 /ea	40		/ea		/ea		172	230
23 MBR MBR Building													
Metals Metals													
05 50- Baffle Wall Assembly													
Baffle Wall Assembly	5001.130	4.00 ea	33.00 /mh	3,168	/ea			/ea		/ea		3,168	4,562

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
05 50- Baffle Wall Assembly													
1/2" Dia Anchor Bolts 316 SS 7.5" Long	3150.700	32.00 ea	33.00 /mh	211	20.00 /ea	640		/ea		/ea		851	944
05 50- Bridge Crane Runway Beams													
Runway Beams W16x67 - 108' Long	5001.130	2.00 ea	33.00 /mh	3,168	/ea			/ea		/ea		3,168	4,562
Anchor Bolt 3/4x8 HDG	5001.061	48.00 ea	33.00 /mh	396	25.00 /ea	1,200		/ea		/ea		1,596	1,770
05 50- Wall Flashing around Pipe Penetration													
2'-6" x 2'-6" 20 GA Gal. Sheet Metal	5001.130	3.00 ea	33.00 /mh	1,584	/ea			/ea		/ea		1,584	2,281
Caulking (10 LF Ea)	7920.200	30.00 lf	33.00 /mh	198	2.00 /lf	64		/lf		/lf		262	349
1/4" x 1" SS Anchors (16 EA)	5590.100	48.00 ea	/ea		/ea			/ea		/ea			
05 50- Wall Flashing around Screw Conveyors and Dumpster Plate/ Angles													
2'-6" x 2'-6" 20 GA Gal. Sheet Metal	5001.130	2.00 ea	33.00 /mh	1,056	/ea			/ea		/ea		1,056	1,521
Caulking (10 LF Ea)	7920.200	20.00 lf	33.00 /mh	132	2.00 /lf	43		/lf		/lf		175	233
1/4" x 1" SS Anchors (16 EA)	5590.100	32.00 ea	/ea		/ea			/ea		/ea			
Dumpster Plates 8' with studs	5001.130	8.00 ea	33.00 /mh	4,224	/ea			/ea		/ea		4,224	6,083
Dumpster Angles	5001.130	8.00 ea	33.00 /mh	1,056	/ea			/ea		/ea		1,056	1,521
Field Welding - Carbon Steel	5000.985	8.00 hrs	33.00 /mh	264	/hrs		1,000	/hrs		/hrs		1,264	1,380
055100 Metal Stairs													
10 HWK Headworks Building													
Metals Metals													
05 50- Stair 10S502 Stair 1													
10' Tall Stair	5001.130	1.00 ea	33.00 /mh	1,584	/ea			/ea		/ea		1,584	2,281
Stairway Handrail	5001.115	32.00 lf	33.00 /mh	1,584	0.00 /lf	0		/lf		/lf		1,584	2,281
Anchor Bolt 5/8x6 SS 304 (Stringer to Wall)	5001.063	8.00 ea	33.00 /mh	66	15.00 /ea	120		/ea		/ea		186	215
Anchor Bolt 5/8x6 SS 304 (Stringer to Floor)	5001.063	8.00 ea	33.00 /mh	66	15.00 /ea	120		/ea		/ea		186	215
Grout Bearing Plates	3150.700	4.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
05 50- Stair 10S502 Stair 2													
10' Tall Stair	5001.130	1.00 ea	33.00 /mh	1,584	/ea			/ea		/ea		1,584	2,281
Stairway Handrail	5001.115	32.00 lf	33.00 /mh	1,584	0.00 /lf	0		/lf		/lf		1,584	2,281
Anchor Bolt 5/8x6 SS 304 (Stringer to Wall)	5001.063	8.00 ea	33.00 /mh	66	15.00 /ea	120		/ea		/ea		186	215
Anchor Bolt 5/8x6 SS 304 (Stringer to Floor)	5001.063	8.00 ea	33.00 /mh	66	15.00 /ea	120		/ea		/ea		186	215
Grout Bearing Plates	3150.700	4.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
11 EQB EQ Basin													
Metals Metals													
05 50- Stair 11S902 Stair 1													
4' Tall Stair	5001.130	1.00 ea	33.00 /mh	792	/ea			/ea		/ea		792	1,140
Stairway Handrail	5001.115	14.00 lf	33.00 /mh	693	0.00 /lf	0		/lf		/lf		693	998
Anchor Bolt 5/8x6 SS 304 (Stringer to Wall/Floor)	5001.063	16.00 ea	33.00 /mh	132	15.00 /ea	240		/ea		/ea		372	430
Anchor Bolt 5/8x8 SS 304 (Walkway Support)	5001.063	8.00 ea	33.00 /mh	66	15.00 /ea	120		/ea		/ea		186	215
Grout Bearing Plates	3150.700	6.00 ea	33.00 /mh	198	/ea			/ea		/ea		198	285
Landing Handrail	10260.200	8.00 lf	33.00 /mh	264	0.01 /lf	0		/lf		/lf		264	380
Landing Grating	5001.120	16.00 sf	33.00 /mh	132	0.00 /sf	0		/sf		/sf		132	190
05 50- Stair 11S902 Stair 2													
4' Tall Stair	5001.130	1.00 ea	33.00 /mh	792	/ea			/ea		/ea		792	1,140
Stairway Handrail	5001.115	14.00 lf	33.00 /mh	693	0.00 /lf	0		/lf		/lf		693	998
Anchor Bolt 5/8x6 SS 304 (Stringer to Wall/Floor)	5001.063	16.00 ea	33.00 /mh	132	15.00 /ea	240		/ea		/ea		372	430
Anchor Bolt 5/8x8 SS 304 (Walkway Support)	5001.063	4.00 ea	33.00 /mh	33	15.00 /ea	60		/ea		/ea		93	108
Grout Bearing Plates	3150.700	5.00 ea	33.00 /mh	165	/ea			/ea		/ea		165	238
Landing Handrail	10260.200	12.00 lf	33.00 /mh	396	0.01 /lf	0		/lf		/lf		396	570
Landing Grating	5001.120	32.00 sf	33.00 /mh	264	/sf			/sf		/sf		264	380
05 50- Stair 11S903 Stair 3													
4' Tall Stair	5001.130	1.00 ea	33.00 /mh	792	/ea			/ea		/ea		792	1,140
Stairway Handrail	5001.115	14.00 lf	33.00 /mh	693	0.00 /lf	0		/lf		/lf		693	998
Anchor Bolt 5/8x6 SS 304 (Stringer to Wall/Floor)	5001.063	16.00 ea	33.00 /mh	132	15.00 /ea	240		/ea		/ea		372	430
Anchor Bolt 5/8x8 SS 304 (Walkway Support)	5001.063	8.00 ea	33.00 /mh	66	15.00 /ea	120		/ea		/ea		186	215
Grout Bearing Plates	3150.700	6.00 ea	33.00 /mh	198	/ea			/ea		/ea		198	285
Landing Handrail	10260.200	12.00 lf	33.00 /mh	396	0.01 /lf	0		/lf		/lf		396	570
Landing Grating	5001.120	32.00 sf	33.00 /mh	264	/sf			/sf		/sf		264	380
20 PBS Process Basin													
Metals Metals													
05 50- Stair 20S206 Stair 1													
4' Tall Stair	5001.130	1.00 ea	33.00 /mh	792	/ea			/ea		/ea		792	1,140
Stairway Handrail	5001.115	14.00 lf	33.00 /mh	693	0.00 /lf	0		/lf		/lf		693	998
Anchor Bolt 5/8x6 SS 304 (Stringer to Wall/Floor)	5001.063	16.00 ea	33.00 /mh	132	15.00 /ea	240		/ea		/ea		372	430
Anchor Bolt 5/8x8 SS 304 (Walkway Support)	5001.063	8.00 ea	33.00 /mh	66	15.00 /ea	120		/ea		/ea		186	215
Grout Bearing Plates	3150.700	6.00 ea	33.00 /mh	198	/ea			/ea		/ea		198	285
Landing Handrail	10260.200	15.00 lf	33.00 /mh	495	0.01 /lf	0		/lf		/lf		495	713
Landing Grating	5001.120	71.00 sf	33.00 /mh	586	/sf			/sf		/sf		586	843
05 50- Stair 20S207 Stair 2													
4' Tall Stair	5001.130	1.00 ea	33.00 /mh	792	/ea			/ea		/ea		792	1,140
Stairway Handrail	5001.115	15.00 lf	33.00 /mh	743	0.00 /lf	0		/lf		/lf		743	1,069
Anchor Bolt 5/8x6 SS 304 (Stringer to Wall/Floor)	5001.063	16.00 ea	33.00 /mh	132	15.00 /ea	240		/ea		/ea		372	430
Anchor Bolt 5/8x8 SS 304 (Walkway Support)	5001.063	4.00 ea	33.00 /mh	33	15.00 /ea	60		/ea		/ea		93	108
Grout Bearing Plates	3150.700	5.00 ea	33.00 /mh	165	/ea			/ea		/ea		165	238
Landing Handrail	10260.200	5.00 lf	33.00 /mh	165	0.01 /lf	0		/lf		/lf		165	238
Landing Grating	5001.120	25.00 sf	33.00 /mh	206	/sf			/sf		/sf		206	297
05 50- Stair 20S208 Stair 3													
4' Tall Stair	5001.130	1.00 ea	33.00 /mh	792	/ea			/ea		/ea		792	1,140
Stairway Handrail	5001.115	14.00 lf	33.00 /mh	693	0.00 /lf	0		/lf		/lf		693	998
Anchor Bolt 5/8x6 SS 304 (Stringer to Wall/Floor)	5001.063	16.00 ea	33.00 /mh	132	15.00 /ea	240		/ea		/ea		372	430
Grout Bearing Plates	3150.700	4.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
05 50- Stair 20S208 Stair 4													
4' Tall Stair	5001.130	1.00 ea	33.00 /mh	792	/ea			/ea		/ea		792	1,140
Stairway Handrail	5001.115	14.00 lf	33.00 /mh	693	0.00 /lf	0		/lf		/lf		693	998
Anchor Bolt 5/8x6 SS 304 (Stringer to Wall/Floor)	5001.063	16.00 ea	33.00 /mh	132	15.00 /ea	240		/ea		/ea		372	430
Grout Bearing Plates	3150.700	4.00 ea	33.00 /mh	132	10.00 /ea	40		/ea		/ea		172	230
05 50- Stair 20S209 Stair 5													
4' Tall Stair	5001.130	1.00 ea	33.00 /mh	792	/ea			/ea		/ea		792	1,140
Stairway Handrail	5001.115	14.00 lf	33.00 /mh	693	0.00 /lf	0		/lf		/lf		693	998
Anchor Bolt 5/8x6 SS 304 (Stringer to Wall/Floor)	5001.063	16.00 ea	33.00 /mh	132	15.00 /ea	240		/ea		/ea		372	430
Anchor Bolt 5/8x8 SS 304 (Walkway Support)	5001.063	8.00 ea	33.00 /mh	66	15.00 /ea	120		/ea		/ea		186	215
Grout Bearing Plates	3150.700	6.00 ea	33.00 /mh	198	/ea			/ea		/ea		198	285
Landing Handrail	10260.200	13.00 lf	33.00 /mh	429	0.01 /lf	0		/lf		/lf		429	618
Landing Grating	5001.120	32.00 sf	33.00 /mh	264	/sf			/sf		/sf		264	380
05 50- Stair 20S209 Stair 6													
4' Tall Stair	5001.130	1.00 ea	33.00 /mh	792	/ea			/ea		/ea		792	1,140
Stairway Handrail	5001.115	14.00 lf	33.00 /mh	693	0.00 /lf	0		/lf		/lf		693	998
Anchor Bolt 5/8x6 SS 304 (Stringer to Wall/Floor)	5001.063	8.00 ea	33.00 /mh	66	15.00 /ea	120		/ea		/ea		186	215
Anchor Bolt 5/8x8 SS 304 (Walkway Support)	5001.063	8.00 ea	33.00 /mh	66	15.00 /ea	120		/ea		/ea		186	215
Grout Bearing Plates	3150.700	6.00 ea	33.00 /mh	198	/ea			/ea		/ea		198	285
Landing Handrail	10260.200	13.00 lf	33.00 /mh	429	0.01 /lf	0		/lf		/lf		429	618
Landing Grating	5001.120	32.00 sf	33.00 /mh	264	/sf			/sf		/sf		264	380
23 MBR MBR Building													
Metals Metals													
05 50- Stair 23S902 Stair 1													
3'-6" Tall Stair	5001.130	1.00 ea	33.00 /mh	792	/ea			/ea		/ea		792	1,140
Stairway Handrail	5001.115	12.00 lf	33.00 /mh	594	0.00 /lf	0		/lf		/lf		594	855
Anchor Bolt 5/8x6 SS 304 (Stringer to Wall/Floor)	5001.063	8.00 ea	33.00 /mh	66	15.00 /ea	120		/ea		/ea		186	215
Grout Bearing Plates	3150.700	4.00 ea	33.00 /mh	132	10.00 /ea	40		/ea		/ea		172	230
05 50- Stair 23S902 Stair 2													
3'-6" Tall Stair	5001.130	1.00 ea	33.00 /mh	792	/ea			/ea		/ea		792	1,140
Stairway Handrail	5001.115	12.00 lf	33.00 /mh	594	0.00 /lf	0		/lf		/lf		594	855
Anchor Bolt 5/8x6 SS 304 (Stringer to Wall/Floor)	5001.063	8.00 ea	33.00 /mh	66	15.00 /ea	120		/ea		/ea		186	215
Grout Bearing Plates	3150.700	4.00 ea	33.00 /mh	132	10.00 /ea	40		/ea		/ea		172	230
05 50- Stair 23S902 Stair 3													
3'-6" Tall Stair	5001.130	1.00 ea	33.00 /mh	792	/ea			/ea		/ea		792	1,140
Stairway Handrail	5001.115	12.00 lf	33.00 /mh	594	0.00 /lf	0		/lf		/lf		594	855
Anchor Bolt 5/8x6 SS 304 (Stringer to Wall/Floor)	5001.063	8.00 ea	33.00 /mh	66	15.00 /ea	120		/ea		/ea		186	215
Grout Bearing Plates	3150.700	4.00 ea	33.00 /mh	132	10.00 /ea	40		/ea		/ea		172	230
40 SLD Aerated Sludge Holding Tank													
Metals Metals													
05 50- Stair 40S402 Stair													
22' Tall Curved Stair w/ Middle Landing	5001.130	1.00 ea	33.00 /mh	5,280	/ea			/ea		/ea		5,280	7,603
Stairway Handrail	5001.115	44.00 lf	33.00 /mh	2,178	0.00 /lf	0		/lf		/lf		2,178	3,136
Anchor Bolt 5/8x6 SS 304 (Stringer to Wall/Floor)	5001.063	40.00 ea	33.00 /mh	330	15.00 /ea	600		/ea		/ea		930	1,075
Grout Bearing Plates	3150.700	10.00 ea	33.00 /mh	330	10.00 /ea	100		/ea		/ea		430	575
Landing Handrail	10260.200	18.00 lf	33.00 /mh	594	0.01 /lf	0		/lf		/lf		594	856
Landing Grating	5001.120	22.00 sf	33.00 /mh	182	/sf			/sf		/sf		182	261
055213 Railings													
10 HWK Headworks Building													
Metals Metals													
05 32- Aluminum Guardrail 10S203													
Aluminum 3 Line Rail	5001.115	74.00 lf	33.00 /mh	3,663	0.00 /lf	0		/lf		/lf		3,663	5,275
Kickplate	5001.115	74.00 lf	33.00 /mh		0.00 /lf	0		/lf		/lf			
Anchor Bolt 3/8x4 for Handrail	5001.061	74.00 ea	33.00 /mh	611	8.00 /ea	592		/ea		/ea		1,203	1,471
11 EQB EQ Basin													
Metals Metals													
05 32- Aluminum Guardrail 11S204													
Aluminum 3 Line Rail	5001.115	59.00 lf	33.00 /mh	2,921	0.00 /lf	0		/lf		/lf		2,921	4,206
Kickplate	5001.115	59.00 lf	33.00 /mh		0.00 /lf	0		/lf		/lf			
Anchor Bolt 3/8x4 for Kickplate to Post (every 4')	5001.061	60.00 ea	33.00 /mh	495	8.00 /ea	480		/ea		/ea		975	1,193
20 PBS Process Basin													
Metals Metals													
05 32- Aluminum Guardrail 20S204													
Aluminum 3 Line Rail	5001.115	852.00 lf	33.00 /mh	28,116	0.00 /lf	0		/lf		/lf		28,116	40,487
Kickplate	5001.115	852.00 lf	33.00 /mh		0.00 /lf	0		/lf		/lf			
Anchor Bolt 3/8x4 for handrail	5001.061	852.00 ea	33.00 /mh	7,029	8.00 /ea	6,816		/ea		/ea		13,845	16,938
23 MBR MBR Building													
Metals Metals													
05 32- Aluminum Guardrail 23S207													
Aluminum 3 Line Rail	5001.115	142.00 lf	33.00 /mh	4,686	0.00 /lf	0		/lf		/lf		4,686	6,748
Kickplate	5001.115	142.00 lf	33.00 /mh		0.00 /lf	0		/lf		/lf			
Anchor Bolt 3/8x4 for handrail	5001.061	142.00 ea	33.00 /mh	1,172	8.00 /ea	1,136		/ea		/ea		2,308	2,823
055300 Metal Gratings													
09 IPS Influent Pump Station													
Metals Metals													
05 43- Grating - Aluminum 09S201													
Alum Floor Grating 1.50"	5001.120	127.00 sf	33.00 /mh	3,143	/sf			/sf		/sf		3,143	4,526
Grating Angle - Bolt on 2.5x1.5x1/4	5001.120	54.00 lf	33.00 /mh	891	0.00 /lf	0		/lf		/lf		891	1,283

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
0600 1- Blocking													
Blocking 2x4 to Wood	6116.120	120.00 lf	33.00 /mh	990	1.00 /lf	128		/lf		/lf		1,118	1,554
Fasteners	6090.700	120.00 ea	/ea		1.00 /ea	120		/ea		/ea		120	120
60 ELE Electrical Bldg													
Woods Woods													
0600 4- Roof Structure (Wood)													
3x8 Top Plate	6116.180	75.00 lf	33.00 /mh	495	5.00 /lf	401		/lf		/lf		896	1,114
4x8 Sub Fascia	6160.400	91.00 lf	33.00 /mh	601	6.00 /lf	584		/lf		/lf		1,185	1,449
2x14 Fascia	6114.600	91.00 lf	33.00 /mh	601	4.00 /lf	389		/lf		/lf		990	1,254
Soffit Nailer 2x4	6114.600	75.00 lf	33.00 /mh	495	1.00 /lf	80		/lf		/lf		575	793
Soffit Board ~2' wide	6160.400	81.00 lf	33.00 /mh	535	4.00 /lf	347		/lf		/lf		881	1,117
Microllam LVL 2x12 (20 EA)	6114.100	267.00 lf	33.00 /mh	2,203	12.00 /lf	3,428		/lf		/lf		5,631	6,600
Roof Sheathing 3/4" CDX	6160.050	427.00 sf	33.00 /mh	564	1.50 /sf	685		/sf		/sf		1,249	1,497
5/8" x 8" J Bolt w 2"x2" Flat Washer	6090.500	26.00 ea	33.00 /mh	215	15.00 /ea	390		/ea		/ea		605	699
H2.5 Hurricane Ties	6114.500	88.00 ea	33.00 /mh	581	8.00 /ea	753		/ea		/ea		1,334	1,590
Solid Wood Bridging 2x6c2' Long (12 EA)	6116.100	24.00 lf	33.00 /mh	158	2.00 /lf	51		/lf		/lf		210	279
Nails	6090.500	60.00 lb	/lb		2.50 /lbs	150		/lb		/lb		150	150
065100 FRP Weirs													
23 MBR MBR Building													
FRP FRP													
0600 2- FRP Plate/Weir													
Supply FRP Weir	11000.460	1.00 ls	/ls		/ls			/ls		/ls			
Weir - 1/4" FRP Plate - 8 LF	5001.135	4.00 ea	33.00 /mh	792	0.01 /ea	0		/ea		/ea		792	1,141
5/8" SS Expansion Joint w/Nuts & Washers - 9 EA Plate	5001.135	36.00 ea	33.00 /mh	297	25.00 /ea	900		/ea		/ea		1,197	1,328
Sika Flex 2C NS w Primer for Edges	7920.300	1.00 ls	/ls		50.00 /ls	55		/ls		/ls		55	55
Caulking 10.3 oz tube 3/8d x 1/2"w	7920.300	32.00 lf	33.00 /mh	106	18.00 /tube	74		/lf		/lf		179	226
066010 FRP Plastic Covers													
10 HWK Headworks Building													
FRP FRP													
0600 2- FRP Plank													
Supply FRP Grating Package	5001.155	1.00 ls	33.00 /mh		133,570.00 /ls	133,570		/ls		/ls		133,570	133,570
FRP Grating Angle	5001.155	481.00 lf	33.00 /mh	3,968	/lf			/lf		/lf		3,968	5,714
FRP Support Beams	5001.155	26.00 ea	33.00 /mh	3,432	/ea			/ea		/ea		3,432	4,942
Fiberglass Grating 2"	5001.155	1,225.00 sf	33.00 /mh	4,043	0.01 /sf	12		/sf		/sf		4,055	5,833
5/8" Hilti SS Threaded Rod with Hilti - 5" Long	5001.050	1,066.00 ea	33.00 /mh	8,795	8.00 /ea	8,528		0.00 /ea	0	/ea		17,323	21,192
Skia Flex 2C NS w Primer	7920.300	1.00 ls	/ls		400.00 /ls	440		/ls		/ls		440	440
Gasket and Hardware	5001.155	481.00 lf	33.00 /mh		5.00 /lf	2,405		/lf		/lf		2,405	2,405
071400 Waterproofing													
10 HWK Headworks Building													
Damp Proofing Damp Proofing													
07 3- Headworks Damproofing and insulation													
Brush on Bituminous	7110.100	1,250.00 sf	33.00 /mh	825	0.65 /sf	869		/sf		/sf		1,694	2,057
Insulation Rigid Foundation 2in thick	3150.635	1,700.00 sf	33.00 /mh	1,122	2.00 /sf	3,570		/sf		/sf		4,692	5,186
07 3- MBR Damproofing and insulation													
Brush on Bituminous	7110.100	1,000.00 sf	33.00 /mh	660	0.65 /sf	696		/sf		/sf		1,356	1,646
Insulation Rigid Foundation 2in thick	3150.635	1,250.00 sf	33.00 /mh	825	2.00 /sf	2,625		/sf		/sf		3,450	3,813
60 ELE Electrical Bldg													
Damp Proofing Damp Proofing													
07 3- Electrical Building Damproof and Insulation													
Brush on Bituminous	7110.100	250.00 sf	33.00 /mh	165	0.65 /sf	174		/sf		/sf		339	411
Insulation Rigid Foundation 2in thick	3150.635	200.00 sf	33.00 /mh	132	2.00 /sf	420		/sf		/sf		552	610
074600 Siding													
23 MBR MBR Building													
Metals Metals													
0710- Metal Panel													
RT Telescopic Forklift (12,000 lb) (130 HP) (L)	1900.300	0.25 Mnth	/Mnth		/Mnth			4,200.00 /Mnth	1,050	1,500.00 /Mnth	375	1,425	1,425
* unassigned *													
0710- Metal Panel													
Mettl Panel	7460.100	6,500.00 sf	33.00 /mh	8,580	3.00 /sf	20,865		/sf		/sf		29,445	33,220
Screw Fastners	7460.100	6,500.00 ea	/ea		0.05 /ea	348		/ea		/ea		348	348
Genie 32' Scissor Lift (Requires Power Source)	1900.300	1.00 Mnth	/Mnth		/Mnth			950.00 /Mnth	950	100.00 /Mnth	100	1,050	1,050
076200 Sheet Metal Flashing & Trim													
00 GEN General													
Roofing Roofing													
0732- Concrete tile roofing (Headworks, Electrical)													
Sub - Roofing (including Insul, tiles, gutter, downspouts, snow guards)	7510.100	1.00 ls	/ls		/ls		281,275	/ls		/ls		281,275	281,275
Sub - Roofing Bond	7510.100	1.00 ls	/ls		/ls			/ls		/ls			
079200 Joint Sealants													
10 HWK Headworks Building													
Caulking Caulking													
0760- Headworks Caulking (includes Electric Building)													
Caulking 20 oz tube 1/2d x 1/2w	7920.300	1,050.00 lf	33.00 /mh	3,465	18.00 /tube	1,624		/lf		/lf		5,089	6,614
Caulking 20 oz tube 7/8d x 7/8w	7920.300	650.00 lf	33.00 /mh	2,145	18.00 /tube	3,064		/lf		/lf		5,209	6,153
Backer Rod 5/8"	7920.300	850.00 lf	33.00 /mh	561	0.20 /lf	187		/lf		/lf		748	995
Backer Rod 1"	7920.300	650.00 lf	33.00 /mh	429	0.50 /lf	358		/lf		/lf		787	975

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
01 -100 RAT Testing and Start Up													
Field Engineer RAT Test	1630.100	3.00 wk	1,925.00 /wk	5,775	/wk			/wk		/wk		5,775	8,316
General Superintendent RAT Test	1022.100	3.00 wk	3,365.00 /wk	10,095	/wk			/ea		/wk		10,095	14,537
Pickup	1900.210	2.00 Mnth	/Mnth		/Mnth			1,000.00 /Mnth	2,000	1,065.00 /Mnth	2,130	4,130	4,130
Lab testing Bac T testing, Lab testing	1166.100	1.00 ls	/ls		/ls			/ls		1,000.00 /ls	1,000	1,000	1,000
Bypass Pumping Effluent to Lagoon during comissioning	2240.150	1.00 ls	33.00 /mh	1,320	/ls		15,000	/ls		/ls		16,320	16,901
Field Engineer (loop check, start up and COPI checkout)	1630.100	4.00 wk	1,925.00 /wk	7,700	/wk			/wk		/wk		7,700	11,088
* unassigned *													
11-00 Construction Equipment for Process Equipment Div 15, 43, and 46													
Grove RT750, 50 ton (190 HP) (L)	1900.100	1.00 mnth	8,660.00 /mnth	8,660	400.00 /mnth	400		9,500.00 /mnth	9,500	2,250.00 /mnth	2,250	20,810	24,620
RT Telescopic Forklift (12,000 lb) (130 HP) (L)	1900.300	4.00 Mnth	/Mnth		/Mnth			4,200.00 /Mnth	16,800	1,500.00 /Mnth	6,000	22,800	22,800
Hoisting System Interior Misc	1485.100	1.00 ls	33.00 /mh		5,000.00 /ls	5,000		/ls		/ls		5,000	5,000
Kobelco CK1100G-2 - 110 Ton (332 HP) (L)	1900.100	2.00 mnth	5,629.00 /mnth	11,258	550.00 /mnth	1,100		14,000.00 /mnth	28,000	2,500.00 /mnth	5,000	45,358	50,312
Toyota Forklift (5,000 lb) Conventional (L)	1900.300	4.00 Mnth	/Mnth		/Mnth			1,500.00 /Mnth	6,000	500.00 /Mnth	2,000	8,000	8,000
(3rd Party) Semi Tractor	1900.210	48.00 Hrs	/Hrs		/Hrs		6,000	/Hrs		/Hrs		6,000	6,000
Genie 32' Scissor Lift (Requires Power Source)	1900.300	2.00 Mnth	/Mnth		/Mnth			950.00 /Mnth	1,900	100.00 /Mnth	200	2,100	2,100
11-500 Owner Selected Equipment - Supply													
Supply Mechanical Screens - Ovivo	11600.010	1.00 ls	/ls		374,517.00 /ls	374,517		/ls		/ls		374,517	374,517
Supply Grit System - Hydro International	11600.030	1.00 ls	/ls		522,365.00 /ls	522,365		/ls		/ls		522,365	522,365
Supply MBBR Equipment - Suez	11000.250	1.00 ls	/ls		1,679,990.00 /ls	1,679,990		/ls		/ls		1,679,990	1,679,990
Supply MBR Boerger Pump Upgrade - Suez	11000.250	1.00 ls	/ls		44,000.00 /ls	44,000		/ls		/ls		44,000	44,000
Supply Solids Dewatering - Fournier	11000.390	1.00 ls	/ls		788,727.00 /ls	788,727		/ls		/ls		788,727	788,727
Supply Blower Package - Aerzen	11100.030	1.00 ls	/ls		565,510.00 /ls	565,510		/ls		/ls		565,510	565,510
UV Disinfection Equipment Supply - Trojan	11000.410	1.00 ls	/ls		221,805.00 /ls	221,805		/ls		/ls		221,805	221,805
10 HWK Headworks Building													
* unassigned *													
11-01 Grit Pump - Hydro													
Horz Self Prime Non Clog Pump - 5 HP	11700.080	1.00 ea	33.00 /mh	1,056	0.01 /ls	0		/ea		/ea		1,056	1,521
Anchors for Equipment	11000.005	6.00 ea	33.00 /mh	50	30.00 /ea	180		/ea		/ea		230	251
Grout Equipment	11000.005	4.00 cf	33.00 /mh	528	60.00 /cf	240		/cf		/cf		768	1,000
Misc Materials	11000.005	1.00 ea	33.00 /mh		250.00 /ea	250		/ea		/ea		250	250
Pressure Gauge Assembly	11000.005	2.00 ea	33.00 /mh	264	750.00 /ea	1,500		/ea		/ea		1,764	1,880
Start up and Training	11000.005	8.00 mnhr	33.00 /mh	264	/mnhr			/mnhr		/mnhr		264	380
Spare Parts	11000.005	1.00 ls	/ls		/ls			/ls		/ls			
2yr Warranty -	11000.005	1.00 ea	33.00 /mh		/ea			/ea		/ea			
11-10 Drumscreen - Ovivo													
Drumscreen System 4'	11600.010	2.00 ea	33.00 /mh	13,200	0.01 /ea	0		/ea		/ea		13,200	19,008
Control Panel	11600.010	2.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Control Panel - local control station	11600.010	2.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Controls - Differential Level	11600.010	2.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Anchors for Equipment	11000.005	24.00 ea	33.00 /mh	198	30.00 /ea	720		/ea		/ea		918	1,005
Grout Equipment	11000.005	4.00 cf	33.00 /mh	528	60.00 /cf	240		/cf		/cf		768	1,000
Misc Materials	11000.005	2.00 ea	33.00 /mh		500.00 /ea	1,000		/ea		/ea		1,000	1,000
Start up and Training	11000.005	32.00 mnhr	33.00 /mh	1,056	/mnhr			/mnhr		/mnhr		1,056	1,521
Spare Parts	11000.005	2.00 ls	/ls		4,685.00 /ls	9,370		/ls		/ls		9,370	9,370
2yr Warranty -	11000.005	1.00 ea	33.00 /mh		/ea			/ea		/ea			
Chutes Stainless	14560.100	35.00 lf	33.00 /mh		/lf			/mh		/lf			
PS Pipe Stand for 12in DIP 4ft 0in floor to CL SS	15060.408	8.00 ea	33.00 /mh	1,056	750.00 /ea	6,000		/ea		/ea		7,056	7,521
PS Expansion Anchor 1/2 x 7in SS	15060.127	32.00 ea	33.00 /mh	264	30.00 /ea	960		/ea		/ea		1,224	1,340
11-11 Screenings Compactor - Ovivo													
Screenings Compactor	11000.320	2.00 ea	33.00 /mh	4,224	0.01 /ea	0		/ea		/ea		4,224	6,083
Compactor Discharge Pipe and Supports	11000.320	2.00 ea	33.00 /mh	1,056	/ea			/ea		/ea		1,056	1,521
Screening Control Panel	11000.320	2.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Anchors for Equipment	11000.005	6.00 ea	33.00 /mh	50	30.00 /ea	180		/ea		/ea		230	251
Grout Equipment	11000.005	2.00 cf	33.00 /mh	264	60.00 /cf	120		/cf		/cf		384	500
Misc Materials	11000.005	2.00 ea	33.00 /mh	66	250.00 /ea	500		/ea		/ea		566	595
Start up and Training	11000.005	16.00 mnhr	33.00 /mh	528	/mnhr			/mnhr		/mnhr		528	760
2yr Warranty -	11000.005	1.00 ea	33.00 /mh		/ea			/ea		/ea			
11-500 Grit King - Hydro													
Vortex Grit Equipment	11600.020	1.00 ea	33.00 /mh	5,280	0.01 /ea	0		/ea		/ea		5,280	7,603
Anchors for Equipment	11000.005	16.00 ea	33.00 /mh	132	30.00 /ea	480		/ea		/ea		612	670
Misc Materials	11000.005	1.00 ea	33.00 /mh		250.00 /ea	250		/ea		/ea		250	250
Spare Parts	11000.005	1.00 ls	/ls		/ls			/ls		/ls			
Start up and Training	11000.005	24.00 mnhr	33.00 /mh	792	/mnhr			/mnhr		/mnhr		792	1,140
2yr Warranty -	11000.005	1.00 ea	33.00 /mh		/ea			/ea		/ea			
Control Panel	11000.005	1.00 ea	33.00 /mh	132	250.00 /ea	250		/ea		/ea		382	440
Controls	11000.005	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Influent Pipe	11000.005	1.00 ea	33.00 /mh	198	/ea			/ea		/ea		198	285
Deflector Plate	11000.005	1.00 ea	33.00 /mh	1,056	250.00 /ea	250		/ea		/ea		1,306	1,771
Fluidizing Ring	11000.005	1.00 ea	33.00 /mh	264	250.00 /ea	250		/ea		/ea		514	630
11-500 GritCleanse Grit Washer - Hydro													
Grit Washer	11600.030	1.00 ea	33.00 /mh	3,960	0.01 /ea	0		/ea		/ea		3,960	5,702
Anchors for Equipment	11000.005	16.00 ea	33.00 /mh	132	30.00 /ea	480		/ea		/ea		612	670
Grout Equipment	11000.005	1.00 cf	33.00 /mh	132	60.00 /cf	60		/cf		/cf		192	250
Misc Materials	11000.005	1.00 ea	33.00 /mh		250.00 /ea	250		/ea		/ea		250	250
Spare Parts	11000.005	1.00 ls	/ls		/ls			/ls		/ls			
Start up and Training	11000.005	16.00 mnhr	33.00 /mh	528	/mnhr			/mnhr		/mnhr		528	760
2yr Warranty -	11000.005	1.00 ea	33.00 /mh		/ea			/ea		/ea			
Controls	11000.005	1.00 ea	33.00 /mh		/ea			/ea		/ea			
23 MBR MBR Building													
* unassigned *													

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
11-01 Permeate Pumps - Suez													
Rotary Lobe - 20 HP -	11700.050	4.00 ea	33.00 /mh	4,224	0.01 /ls	0		/ea		/ea		4,224	6,083
Anchors for Equipment	11000.005	32.00 ea	33.00 /mh	264	30.00 /ea	960		/ea		/ea		1,224	1,340
Grout Equipment	11000.005	8.00 cf	33.00 /mh	1,056	60.00 /cf	480		/cf		/cf		1,536	2,001
Misc Materials	11000.005	4.00 ea	33.00 /mh		250.00 /ea	1,000		/ea		/ea		1,000	1,000
Pressure Gauge Assembly	11000.005	8.00 ea	33.00 /mh	1,056	0.01 /ea	0		/ea		/ea		1,056	1,521
Start up and Training	11000.005	32.00 mnhr	33.00 /mh	1,056	/mnhr			/mnhr		/mnhr		1,056	1,521
Spare Parts all Suez	11000.005	1.00 ls	/ls		36,130.00 /ls	36,130		/ls		/ls		36,130	36,130
2yr Warranty -	11000.005	1.00 ea	33.00 /mh		/ea			/ea		/ea			
11-03 Chemical Feed - NaOCL - Suez													
Chem Feed System - Skid	11200.020	1.00 ea	33.00 /mh	2,112	0.01 /ea	0		/ea		/ea		2,112	3,041
Start up and Training	11000.005	16.00 mnhr	33.00 /mh	528	/mnhr			/mnhr		/mnhr		528	760
Misc Materials	11000.005	1.00 ea	33.00 /mh		250.00 /ea	250		/ea		/ea		250	250
Anchors for Equipment	11000.005	8.00 ea	33.00 /mh	66	30.00 /ea	240		/ea		/ea		306	335
Grout Equipment	11000.005	1.33 cf	33.00 /mh	176	60.00 /cf	80		/cf		/cf		256	333
Spare Parts	11000.005	1.00 ls	/ls		/ls			/ls		/ls			
2yr Warranty -	11000.005	1.00 ea	33.00 /mh		/ea			/ea		/ea			
Startup Chemicals - NaOCL Tote	11000.005	1.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Spill Containment Pallet (pallets and scales all chem)	11000.005	1.00 ea	33.00 /mh	264	61,939.00 /ea	61,939		/ea		/ea		62,203	62,319
11-03 Polymer System - Fournier													
Polymer Feed System	11200.020	2.00 ea	33.00 /mh	4,224	/ea			/ea		/ea		4,224	6,083
Quick Fill Connectors -	11200.020	2.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Start up and Training	11000.005	16.00 mnhr	33.00 /mh	528	/mnhr			/mnhr		/mnhr		528	760
Misc Materials	11000.005	1.00 ea	33.00 /mh		500.00 /ea	500		/ea		/ea		500	500
Anchors for Equipment	11000.005	8.00 ea	33.00 /mh	66	30.00 /ea	240		/ea		/ea		306	335
Grout Equipment	11000.005	2.00 cf	33.00 /mh	264	60.00 /cf	120		/cf		/cf		384	500
Spare Parts	11000.005	1.00 ls	/ls		/ls			/ls		/ls			
2yr Warranty -	11000.005	1.00 ea	33.00 /mh		/ea			/ea		/ea			
Startup Chemicals - Polymer Tote	11000.005	2.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Spill Containment Pallet	11000.005	2.00 ea	33.00 /mh	528	/ea			/ea		/ea		528	760
11-03 Chemical Feed - Citric Acid - Suez													
Chem Feed System - Skid	11200.020	1.00 ea	33.00 /mh	2,112	/ea			/ea		/ea		2,112	3,041
Start up and Training	11000.005	16.00 mnhr	33.00 /mh	528	/mnhr			/mnhr		/mnhr		528	760
Misc Materials	11000.005	1.00 ea	33.00 /mh		250.00 /ea	250		/ea		/ea		250	250
Anchors for Equipment	11000.005	8.00 ea	33.00 /mh	66	30.00 /ea	240		/ea		/ea		306	335
Grout Equipment	11000.005	2.00 cf	33.00 /mh	264	60.00 /cf	120		/cf		/cf		384	500
Spare Parts	11000.005	1.00 ls	/ls		/ls			/ls		/ls			
2yr Warranty -	11000.005	1.00 ea	33.00 /mh		/ea			/ea		/ea			
Startup Chemicals - NaOCL Tote	11000.005	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Spill Containment Pallet	11000.005	1.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
11-09 Blowers - Aerzen													
Pos. Displacement Blower 125hp	11100.030	6.00 ea	33.00 /mh	7,920	0.01 /hp	0		/ea		/ea		7,920	11,405
VFD	11100.020	6.00 ea	33.00 /mh	1,584	/ea			/ea		/ea		1,584	2,281
Blower Sound Enclosure	11100.020	6.00 ea	33.00 /mh	2,376	/ea			/ea		/ea		2,376	3,421
Blower Inlet Filter 12"	11100.010	2.00 ea	33.00 /mh	528	/ea			/ea		/ea		528	760
Blwr Inlt Disch Silncr 12"	11100.050	6.00 ea	33.00 /mh	396	/ea			/ea		/ea		396	570
Anchors for Equipment	11000.005	48.00 ea	33.00 /mh	396	30.00 /ea	1,440		/ea		/ea		1,836	2,010
Spare Parts	11000.005	1.00 ls	/ls		6,000.00 /ls	6,000		/ls		/ls		6,000	6,000
Misc Materials	11000.005	6.00 ea	33.00 /mh		250.00 /ea	1,500		/ea		/ea		1,500	1,500
Start up and Training	11000.005	40.00 mnhr	33.00 /mh	1,320	/mnhr			/mnhr		/mnhr		1,320	1,901
2yr Warranty -	11000.005	1.00 ea	33.00 /mh		/ea			/ea		/ea			
11-22 UV Disinfection Equipment - Trojan													
UV Disinfection Install	11000.410	2.00 ea	33.00 /mh	3,168	/ea			/ea		/ea		3,168	4,562
UV Disinfection Install System Control Center	11000.410	1.00 ea	33.00 /mh	132	34,300.00 /ea	34,300		/ea		/ea		34,432	34,490
UV Disinfection Install PDC	11000.410	2.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Misc Materials	11000.005	1.00 ea	33.00 /mh		250.00 /ea	250		/ea		/ea		250	250
Anchors for Equipment	11000.005	32.00 ea	33.00 /mh	264	30.00 /ea	960		/ea		/ea		1,224	1,340
Grout Equipment	11000.005	2.00 cf	33.00 /mh	264	75.00 /cf	150		/cf		/cf		414	530
Start up and Training	11000.005	32.00 mnhr	33.00 /mh	1,056	/mnhr			/mnhr		/mnhr		1,056	1,521
2yr Warranty -	11000.005	1.00 ea	33.00 /mh		/ea			/ea		/ea			
Hydro unit and hose	11000.005	1.00 ea	33.00 /mh	792	/ea			/ea		/ea		792	1,140
Spare Parts	11000.005	1.00 ls	/ls		3,990.00 /ls	3,990		/ls		/ls		3,990	3,990
11-500 MBR - Suez													
Cassette Frames and Modules	11000.250	16.00 ea	33.00 /mh	14,784	0.01 /ea	0		/ea		/ea		14,784	21,289
Anchors for Equipment	11000.005	150.00 ea	33.00 /mh	1,238	30.00 /ea	4,500		/ea		/ea		5,738	6,282
Grout Equipment	11000.005	2.00 cf	33.00 /mh	264	75.00 /cf	150		/cf		/cf		414	530
Misc Materials	11000.005	4.00 ea	33.00 /mh	132	250.00 /ea	1,000		/ea		/ea		1,132	1,190
Spare Parts	11000.005	1.00 ls	/ls		/ls			/ls		/ls			
Start up and Training	11000.005	48.00 mnhr	33.00 /mh	1,584	/mnhr			/mnhr		/mnhr		1,584	2,281
2yr Warranty -	11000.005	1.00 ea	33.00 /mh		/ea			/ea		/ea			
Control Panel	11000.005	1.00 ea	33.00 /mh	396	250.00 /ea	250		/ea		/ea		646	820
Controls	11000.005	1.00 ea	33.00 /mh		/ea			/ea		/ea			
Special -	11000.005	1.00 ea	33.00 /mh		/ea			/ea		/ea			
Air Header SS Pipe - 8" - 20' (Inc)	15233.505	4.00 ea	33.00 /mh	2,112	/ea			/ea		/ea		2,112	3,041
Air Header Connection Assembly (Inc)	15233.505	16.00 ea	33.00 /mh	2,112	/ea			/ea		/ea		2,112	3,041
Permeate Header SS Pipe - 8" - 20' (Inc)	15233.505	4.00 ea	33.00 /mh	2,112	/ea			/ea		/ea		2,112	3,041
Permeate Header Connection Assembly (Inc)	15233.505	16.00 ea	33.00 /mh	2,112	/ea			/ea		/ea		2,112	3,041
MBR Tank Deflector Plate	11000.005	4.00 ea	33.00 /mh	528	250.00 /ea	1,000		/ea		/ea		1,528	1,760
Ejector Assembly (Inc)	11000.005	4.00 ea	33.00 /mh	528	250.00 /ea	1,000		/ea		/ea		1,528	1,760
Instrument - Level - Float Switch (Inc)	17300.000	8.00 ea	33.00 /mh	528	0.00 /ea	0		/ea		/ea		528	760
Instrument - Level Transmitter (Inc)	17300.000	4.00 ea	33.00 /mh	264	0.00 /ea	0		/ea		/ea		264	380
Instrument - Pressure - Transducer (Inc)	17400.000	4.00 ea	33.00 /mh	264	0.00 /ea	0		/ea		/ea		264	380

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
15 -1 HVAC - Sub with Bond													
HVAC Subcontractor with Bond	15402.010	1.00 ls	/ls		/ls		1,215,384	/ls		/ls		1,215,384	1,215,384
260000 Electrical													
00 GEN General													
* unassigned *													
16 -1 Electrical - Sub													
Electrical Sub	16000.001	1.00 ls	/ls		/ls		7,100,000	/ls		/ls		7,100,000	7,100,000
Electrical Bond	16000.001	1.00 ls	/ls		/ls			/ls		/ls			
Temporary Dewatering Power	16000.001	1.00 ls	/ls		/ls		0	/ls		/ls		0	0
Temporary Construction Power	16000.001	1.00 ls	/ls		/ls		0	/ls		/ls		0	0
Temporary IPS	16000.001	1.00 ls	/ls		/ls			/ls		/ls			
Elec. Security Allowance	16000.001	1.00 ls	/ls		/ls			/ls		/ls			
Unload Elect Equip	1000.100	6.00 wk	1,400.00 /wk	8,400	/wk			/wk		/wk		8,400	12,096
RT Telescopic Forklift (12,000 lb) (130 HP) (L)	1900.300	3.00 Mnth	/Mnth		/Mnth			4,200.00 /Mnth	12,600	1,500.00 /Mnth	4,500	17,100	17,100
Temporary Lighting	16000.001	1.00 ls	/ls		/ls		0	/ls		/ls			
Sub - Security Allowance Electrician	10610.100	1.00 ls	/ls		/ls		91,000	/ls		/ls		91,000	91,000
01 CIV Civil													
* unassigned *													
16-01 Electrical Ductbank													
Duct Bank Excavation/Backfill	16000.002	1,805.00 lf	33.00 /mh	11,913	/lf			0.00 /lf	0	/lf		11,913	17,155
Duct Bank Formwork	16000.002	7,220.00 sf	33.00 /mh	23,826	/sf	10,830		/sf		/sf		34,656	45,139
Duct Bank Concrete	3310.100	400.00 cy	33.00 /mh	13,200	/cy	70,000		/cy		/cy		83,200	89,008
Duct Bank Rebar	3210.230	21.50 tn	33.00 /mh	21,285	/tn	34,400		/tn		/tn		55,685	65,050
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	3.00 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	11,400	1,800.00 /Mnth	5,400	16,800	16,800
Bobcat Skid Steer (85hp)- track (L)	1900.131	2.00 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	7,600	2,000.00 /Mnth	4,000	11,600	11,600
Color Dye	3310.110	400.00 cy	/cy		/cy	25,680		/cy		/cy		25,680	25,680
10 HWK Headworks Building													
* unassigned *													
16-01 Underslab Conduit													
Duct Bank Excavation/Backfill	16000.002	250.00 lf	33.00 /mh	4,125	/lf			0.00 /lf	0	/lf		4,125	5,940
Flowfill	3310.100	37.04 cy	33.00 /mh	3,667	/cy	5,630		/cy		/cy		9,296	10,910
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.50 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	1,900	1,800.00 /Mnth	900	2,800	2,800
23 MBR MBR Building													
* unassigned *													
16-01 Underslab Conduit													
Duct Bank Excavation/Backfill	16000.002	400.00 lf	33.00 /mh	6,600	/lf			0.00 /lf	0	/lf		6,600	9,504
Flowfill	3310.100	59.26 cy	33.00 /mh	5,084	/cy	9,007		/cy		/cy		14,092	16,329
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	1.00 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	3,800	1,800.00 /Mnth	1,800	5,600	5,600
60 ELE Electrical Bldg													
* unassigned *													
16-01 Underslab Conduit													
Duct Bank Excavation/Backfill	16000.002	75.00 lf	33.00 /mh	1,238	/lf			0.00 /lf	0	/lf		1,238	1,782
Flowfill	3310.100	11.11 cy	33.00 /mh	1,100	/cy	1,689		/cy		/cy		2,789	3,273
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.25 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	950	1,800.00 /Mnth	450	1,400	1,400
311000 Site Clearing													
01 CIV Civil													
Sitework Sitework													
0212- Clear and Grub Site													
Clear and Grub Site -Light	2314.100	9.83 ac	33.00 /mh	3,243	/ac			/ac		/ac		3,243	4,669
Strip Topsoil to Stockpile	2314.200	5,200.00 cy	33.00 /mh	7,722	/cy			/cy		/cy		7,722	11,120
John Deere 644 Loader (232 HP) (M)	1900.132	0.43 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	2,838	3,700.00 /Mnth	1,591	4,429	4,429
John Deere 750 Dozer (168 HP) (L)	1900.120	0.43 Mnth	/Mnth		/Mnth			7,000.00 /Mnth	3,010	3,000.00 /Mnth	1,290	4,300	4,300
Water Truck, 4,000 Gallon (L)	1900.210	0.43 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	2,064	1,200.00 /Mnth	516	2,580	2,580
10 Wheel Dump Truck (Haul off trash)	1900.210	20.00 Hrs	/Hrs		/Hrs		2,400	/Hrs		/Hrs		2,400	2,400
Dump Fees by ton	1714.100	150.00 tn	/tn		/tn	6,750		/tn		/tn		6,750	6,750
John Deere 644 Loader (232 HP) (M)	1900.132	0.43 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	2,838	3,700.00 /Mnth	1,591	4,429	4,429
0213- Temp Erosion Control													
Silt Fence	2370.150	7,300.00 sf	33.00 /mh	12,045	/sf	8,030		/sf		/sf		20,075	25,375
Stone @ Entrance (3ea tracking mat)	2305.350	180.00 cy	33.00 /mh	1,782	/cy	13,365		/cy		/cy		15,147	15,931
Labor Clean sweep clean roads	2305.350	6.00 mo	33.00 /mh	4,554	/mo	0		/mo		/mo		4,554	6,558
Bobcat Skid Steer (85hp)- track (L) with Broom	1900.131	8.00 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	30,400	2,000.00 /Mnth	16,000	46,400	46,400
Erosion Control (BMP) Maintenance	2370.050	1.00 mnhr	33.00 /mh	23,760	/mnhr			/mnhr		/mnhr		23,760	34,214
Bobcat Skid Steer (85hp)- track (L) with trencher	1900.131	1.00 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	3,800	2,000.00 /Mnth	2,000	5,800	5,800
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.12 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	1,104	3,500.00 /Mnth	420	1,524	1,524
John Deere 624 Loader (172 HP) (M)	1900.132	0.12 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	720	3,000.00 /Mnth	360	1,080	1,080
0230- Final Grade Site													
Rough Grade Site	2300.600	48,000.00 sy	33.00 /mh	47,520	/sy			/sy		/sy		47,520	68,429
Komatsu PC300 Excavator (232 HP) (L)	1900.136	2.00 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	18,400	3,500.00 /Mnth	7,000	25,400	25,400
John Deere 644 Loader (232 HP) (M)	1900.132	2.00 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	13,200	3,700.00 /Mnth	7,400	20,600	20,600
Water Truck, 4,000 Gallon (L)	1900.210	2.00 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	9,600	1,200.00 /Mnth	2,400	12,000	12,000
Sakai SV540 Compactor Single Drum 84" (160 HP) (L)	1900.138	2.00 Mnth	/Mnth		/Mnth			3,900.00 /Mnth	7,800	1,650.00 /Mnth	3,300	11,100	11,100
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	2.00 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	5,000	500.00 /Mnth	1,000	6,000	6,000
Bobcat Skid Steer (85hp)- track (L)	1900.131	2.00 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	7,600	2,000.00 /Mnth	4,000	11,600	11,600
311100 Finish Grading & Landscaping													
01 CIV Civil													
Sitework Sitework													
0236- Sitework Improvements													
Demo Wire Fence existing	2220.735	1.00 ls	33.00 /mh	2,376	/ls			/ls		/ls		2,376	3,421

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
0236- Sitework Improvements													
Hydroseeding subcontractor (9 acre)	2322.060	1.00 ls	/ls				45,000	/ls		/ls		45,000	45,000
Temp Irrigation for Landscape	2322.040	1.00 ls	33.00 /mh	10,560	25,000.00 /ls	25,000		/ls		/ls		35,560	40,206
Erosion Control Mats at slope of pond	2322.040	2,666.00 sy	/sy		2.00 /sy	5,332	0	/sy		/sy		5,332	5,332
Asphalt Striping Parking lot	2740.840	1.00 ls	/ls				6,000	/ls		/ls		6,000	6,000
Dumpster	1714.100	1.00 ea	/ea		750.00 /ea	750		/ea		/ea		750	750
Labor Erosion Control mat	2322.040	1.00 ls	33.00 /mh	3,960	/ls			/ls		/ls		3,960	5,702
0237-0 Rip Rap at Effluent Outfall													
Rip Rap Machine Place	2305.450	10.00 cy	33.00 /mh	1,650	/cy			/cy		/cy		1,650	2,376
Import Rip Rap - Type L (D50 = 9")	2305.450	10.00 cy	/cy		45.00 /ton	743		/cy		/cy		743	743
Import Fill - Structural Fill	2305.100	8.00 cy	/cy		17.00 /ton	204		/cy		/cy		204	204
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.10 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	920	3,500.00 /Mnth	350	1,270	1,270
John Deere 644 Loader (232 HP) (M)	1900.132	0.10 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	660	3,700.00 /Mnth	370	1,030	1,030
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.10 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	250	500.00 /Mnth	50	300	300
Geotextile Fabric (Insert MFR name/#)	2360.100	20.00 sy	33.00 /mh	20	1.50 /sy	30		/sy		/sy		50	59
Dekorra Mock Rock Model 104	2305.450	1.00 ea	33.00 /mh	264	1,600.00 /ea	1,600		/ea		/ea		1,864	1,980
PS Threaded Rod 5/8in SS (3' with 2 nuts and washers)	15060.502	8.00 ea	33.00 /mh	26	75.00 /ea	600		/ea		/ea		626	638
0250- Road Base Roads at Influent and Effluent Pipe 4"													
Sub-Grade/Compact Roads	2300.600	5,300.00 sy	33.00 /mh	3,498	/sy			/sy		/sy		3,498	5,037
Fine Grade/Compact Roads	2301.100	5,300.00 sy	33.00 /mh	3,498	/sy			/sy		/sy		3,498	5,037
Base - Roads	2339.510	586.00 cy	33.00 /mh	5,801	/cy			/cy		/cy		5,801	8,354
Import Gravel Base	2305.250	586.00 cy	/cy		25.00 /ton	27,103		/cy		/cy		27,103	27,103
John Deere 644 Loader (232 HP) (M)	1900.132	1.00 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	6,600	3,700.00 /Mnth	3,700	10,300	10,300
Komatsu PC300 Excavator (232 HP) (L)	1900.136	1.00 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	9,200	3,500.00 /Mnth	3,500	12,700	12,700
Water Truck, 4,000 Gallon (L)	1900.210	1.00 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	4,800	1,200.00 /Mnth	1,200	6,000	6,000
Sakai SV540 Compactor Single Drum 84" (160 HP) (L)	1900.138	1.00 Mnth	/Mnth		/Mnth			3,900.00 /Mnth	3,900	1,650.00 /Mnth	1,650	5,550	5,550
John Deere 750 Dozer (168 HP) (L)	1900.120	1.00 Mnth	/Mnth		/Mnth			7,000.00 /Mnth	7,000	3,000.00 /Mnth	3,000	10,000	10,000
0250- Road Base Under Asphalt													
Sub-Grade/Compact Roads	2300.600	11,496.00 sy	33.00 /mh	5,691	/sy			/sy		/sy		5,691	8,194
Fine Grade/Compact Roads	2301.100	11,496.00 sy	33.00 /mh	5,691	/sy			/sy		/sy		5,691	8,194
Base - Roads	2339.510	2,880.00 cy	33.00 /mh	9,504	/cy			/cy		/cy		9,504	13,686
Import Gravel Base	2305.250	2,880.00 cy	/cy		25.00 /ton	133,200		/cy		/cy		133,200	133,200
John Deere 644 Loader (232 HP) (M)	1900.132	1.00 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	6,600	3,700.00 /Mnth	3,700	10,300	10,300
Water Truck, 4,000 Gallon (L)	1900.210	1.00 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	4,800	1,200.00 /Mnth	1,200	6,000	6,000
Sakai SV540 Compactor Single Drum 84" (160 HP) (L)	1900.138	1.00 Mnth	/Mnth		/Mnth			3,900.00 /Mnth	3,900	1,650.00 /Mnth	1,650	5,550	5,550
John Deere 750 Dozer (168 HP) (L)	1900.120	1.00 Mnth	/Mnth		/Mnth			7,000.00 /Mnth	7,000	3,000.00 /Mnth	3,000	10,000	10,000
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	1.00 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	2,500	500.00 /Mnth	500	3,000	3,000
Bobcat Skid Steer (85hp)- track (L)	1900.131	1.00 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	3,800	2,000.00 /Mnth	2,000	5,800	5,800
0250- Landscape Rock													
Sub-Grade/Compact Roads	2300.600	1,766.00 sy	33.00 /mh	1,748	/sy			/sy		/sy		1,748	2,518
Fine Grade/Compact Roads	2301.100	1,766.00 sy	33.00 /mh	1,748	/sy			/sy		/sy		1,748	2,518
Gravel Landscape	2339.510	200.00 cy	33.00 /mh	2,178	/cy			/cy		/cy		2,178	3,136
Landscape Rock	2305.250	200.00 cy	/cy		43.00 /ton	15,910		/cy		/cy		15,910	15,910
John Deere 644 Loader (232 HP) (M)	1900.132	0.49 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	3,241	3,700.00 /Mnth	1,817	5,057	5,057
John Deere 750 Dozer (168 HP) (L)	1900.120	0.49 Mnth	/Mnth		/Mnth			7,000.00 /Mnth	3,437	3,000.00 /Mnth	1,473	4,910	4,910
Sakai SV540 Compactor Single Drum 84" (160 HP) (L)	1900.138	0.49 Mnth	/Mnth		/Mnth			3,900.00 /Mnth	1,915	1,650.00 /Mnth	810	2,725	2,725
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.49 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	1,228	500.00 /Mnth	246	1,473	1,473
Bobcat Skid Steer (85hp)- track (L)	1900.131	0.49 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	1,866	2,000.00 /Mnth	982	2,848	2,848
Landscape Fabric	2322.050	1,766.00 sy	33.00 /mh	2,914	1.50 /sy	2,649		/sy		/sy		5,563	6,845
0250- Recycled Asphalt Road Base													
Sub-Grade/Compact Roads	2300.600	610.00 sy	33.00 /mh	403	/sy			/sy		/sy		403	580
Fine Grade/Compact Roads	2301.100	610.00 sy	33.00 /mh	403	/sy			/sy		/sy		403	580
Base - Gravel	2339.510	140.00 cy	33.00 /mh	924	/cy			/cy		/cy		924	1,331
Import Recycled Asphalt	2305.250	140.00 cy	/cy		35.00 /ton	9,310		/cy		/cy		9,310	9,310
John Deere 644 Loader (232 HP) (M)	1900.132	0.09 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	561	3,700.00 /Mnth	315	876	876
Water Truck, 4,000 Gallon (L)	1900.210	0.09 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	408	1,200.00 /Mnth	102	510	510
John Deere 750 Dozer (168 HP) (L)	1900.120	0.09 Mnth	/Mnth		/Mnth			7,000.00 /Mnth	595	3,000.00 /Mnth	255	850	850
Sakai SV540 Compactor Single Drum 84" (160 HP) (L)	1900.138	0.09 Mnth	/Mnth		/Mnth			3,900.00 /Mnth	332	1,650.00 /Mnth	140	472	472
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.09 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	213	500.00 /Mnth	43	255	255
Bobcat Skid Steer (85hp)- track (L)	1900.131	0.09 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	323	2,000.00 /Mnth	170	493	493
312000 Earth Moving													
01 CIV Civil													
Backfill Backfill													
0235- Site Backfill													
Backfill - Mass	2319.302	3,101.00 cy	33.00 /mh	15,350	/cy			/cy		/cy		15,350	22,104
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.59 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	5,400	3,500.00 /Mnth	2,055	7,455	7,455
John Deere 644 Loader (232 HP) (M)	1900.132	0.59 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	3,874	3,700.00 /Mnth	2,172	6,046	6,046
John Deere 750 Dozer (168 HP) (L)	1900.120	0.59 Mnth	/Mnth		/Mnth			7,000.00 /Mnth	4,109	3,000.00 /Mnth	1,761	5,870	5,870
Water Truck, 4,000 Gallon (L)	1900.210	0.59 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	2,818	1,200.00 /Mnth	704	3,522	3,522
Sakai SV540 Compactor Single Drum 84" (160 HP) (L)	1900.138	0.59 Mnth	/Mnth		/Mnth			3,900.00 /Mnth	2,289	1,650.00 /Mnth	969	3,258	3,258
0235- Backfill Site Drain Lift Station													
Backfill - Mass	2319.302	2,452.00 cy	33.00 /mh	13,756	/cy			/cy		/cy		13,756	19,808
Import Fill - Structural Fill	2305.100	60.00 cy	/cy		17.00 /ton	1,530		/cy		/cy		1,530	1,530
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.47 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	4,324	3,500.00 /Mnth	1,645	5,969	5,969
John Deere 644 Loader (232 HP) (M)	1900.132	0.47 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	3,102	3,700.00 /Mnth	1,739	4,841	4,841
Water Truck, 4,000 Gallon (L)	1900.210	0.47 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	2,256	1,200.00 /Mnth	564	2,820	2,820
John Deere 750 Dozer (168 HP) (L)	1900.120	0.20 Mnth	/Mnth		/Mnth			7,000.00 /Mnth	1,400	3,000.00 /Mnth	600	2,000	2,000
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.47 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	1,175	500.00 /Mnth	235	1,410	1,410
Mikasa Jumping Jack Compactor (L)	1900.138	0.47 Mnth	/Mnth		/Mnth			200.00 /Mnth	94	100.00 /Mnth	47	141	141
Bobcat Skid Steer (85hp)- track (L)	1900.131	0.47 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	1,786	2,000.00 /Mnth	940	2,726	2,726
0235- Electrical Equipment/ Generator Backfill													

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
0235- Electrical Equipment/ Generator Backfill													
Backfill - Mass	2319.302	336.00 cy	33.00 /mh	1,996	/cy			/cy		/cy		1,996	2,874
Import Fill - Structural Fill	2305.100	183.00 cy	/cy		17.00 /ton	4,667		/cy		/cy		4,667	4,667
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.05 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	497	3,500.00 /Mnth	189	686	686
John Deere 644 Loader (232 HP) (M)	1900.132	0.05 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	356	3,700.00 /Mnth	200	556	556
Water Truck, 4,000 Gallon (L)	1900.210	0.05 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	259	1,200.00 /Mnth	65	324	324
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.05 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	135	500.00 /Mnth	27	162	162
Mikasa Jumping Jack Compactor (L)	1900.138	0.05 Mnth	/Mnth		/Mnth			200.00 /Mnth	11	100.00 /Mnth	5	16	16
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.05 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	205	1,800.00 /Mnth	97	302	302
Bobcat Skid Steer (85hp)- track (L)	1900.131	0.05 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	205	2,000.00 /Mnth	108	313	313
0235- Electrical Building Backfill													
Backfill - Mass	2319.302	346.00 cy	33.00 /mh	2,284	/cy			/cy		/cy		2,284	3,288
Import Fill - Structural Fill	2305.100	75.00 cy	/cy		17.00 /ton	1,913		/cy		/cy		1,913	1,913
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.14 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	1,288	3,500.00 /Mnth	490	1,778	1,778
John Deere 644 Loader (232 HP) (M)	1900.132	0.14 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	924	3,700.00 /Mnth	518	1,442	1,442
Water Truck, 4,000 Gallon (L)	1900.210	0.14 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	672	1,200.00 /Mnth	168	840	840
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.14 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	350	500.00 /Mnth	70	420	420
Mikasa Jumping Jack Compactor (L)	1900.138	0.14 Mnth	/Mnth		/Mnth			200.00 /Mnth	28	100.00 /Mnth	14	42	42
Bobcat Skid Steer (85hp)- track (L)	1900.131	0.14 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	532	2,000.00 /Mnth	280	812	812
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.14 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	532	1,800.00 /Mnth	252	784	784
0235- Headworks Building Backfill													
Backfill - Mass	2319.302	5,124.00 cy	33.00 /mh	30,437	/cy			/cy		/cy		30,437	43,829
Import Fill - Structural Fill	2305.100	4,343.00 cy	/cy		17.00 /ton	110,747		/cy		/cy		110,747	110,747
Komatsu PC300 Excavator (232 HP) (L)	1900.136	1.00 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	9,200	3,500.00 /Mnth	3,500	12,700	12,700
John Deere 644 Loader (232 HP) (M)	1900.132	1.00 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	6,600	3,700.00 /Mnth	3,700	10,300	10,300
Water Truck, 4,000 Gallon (L)	1900.210	1.00 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	4,800	1,200.00 /Mnth	1,200	6,000	6,000
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	1.00 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	2,500	500.00 /Mnth	500	3,000	3,000
Mikasa Jumping Jack Compactor (L)	1900.138	1.00 Mnth	/Mnth		/Mnth			200.00 /Mnth	200	100.00 /Mnth	100	300	300
Bobcat Skid Steer (85hp)- track (L)	1900.131	1.00 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	3,800	2,000.00 /Mnth	2,000	5,800	5,800
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	1.00 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	3,800	1,800.00 /Mnth	1,800	5,600	5,600
0235- Influent Pump Station Backfill													
Backfill - Mass	2319.302	1,750.00 cy	33.00 /mh	8,663	/cy			/cy		/cy		8,663	12,474
Import Fill - Structural Fill	2305.100	87.00 cy	/cy		17.00 /ton	2,219		/cy		/cy		2,219	2,219
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.32 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	2,944	3,500.00 /Mnth	1,120	4,064	4,064
John Deere 644 Loader (232 HP) (M)	1900.132	0.32 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	2,112	3,700.00 /Mnth	1,184	3,296	3,296
Water Truck, 4,000 Gallon (L)	1900.210	0.32 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	1,536	1,200.00 /Mnth	384	1,920	1,920
John Deere 750 Dozer (168 HP) (L)	1900.120	0.32 Mnth	/Mnth		/Mnth			7,000.00 /Mnth	2,240	3,000.00 /Mnth	960	3,200	3,200
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.32 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	800	500.00 /Mnth	160	960	960
Mikasa Jumping Jack Compactor (L)	1900.138	0.32 Mnth	/Mnth		/Mnth			200.00 /Mnth	64	100.00 /Mnth	32	96	96
Bobcat Skid Steer (85hp)- track (L)	1900.131	0.32 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	1,216	2,000.00 /Mnth	640	1,856	1,856
0235- MBR Building Backfill													
Backfill - Mass	2319.302	4,814.00 cy	33.00 /mh	23,829	/cy			/cy		/cy		23,829	34,314
Import Fill - Structural Fill	2305.100	3,015.00 cy	/cy		17.00 /ton	76,883		/cy		/cy		76,883	76,883
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.78 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	7,176	3,500.00 /Mnth	2,730	9,906	9,906
John Deere 644 Loader (232 HP) (M)	1900.132	0.78 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	5,148	3,700.00 /Mnth	2,886	8,034	8,034
Water Truck, 4,000 Gallon (L)	1900.210	0.78 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	3,744	1,200.00 /Mnth	936	4,680	4,680
John Deere 750 Dozer (168 HP) (L)	1900.120	0.78 Mnth	/Mnth		/Mnth			7,000.00 /Mnth	5,460	3,000.00 /Mnth	2,340	7,800	7,800
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.78 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	1,950	500.00 /Mnth	390	2,340	2,340
Mikasa Jumping Jack Compactor (L)	1900.138	0.78 Mnth	/Mnth		/Mnth			200.00 /Mnth	156	100.00 /Mnth	78	234	234
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.78 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	2,964	1,800.00 /Mnth	1,404	4,368	4,368
Bobcat Skid Steer (85hp)- track (L)	1900.131	0.78 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	2,964	2,000.00 /Mnth	1,560	4,524	4,524
0235- Process Basin Backfill													
Backfill - Mass	2319.302	17,798.00 cy	33.00 /mh	58,733	/cy			/cy		/cy		58,733	84,576
Import Fill - Structural Fill	2305.100	2,409.00 cy	/cy		17.00 /ton	61,430		/cy		/cy		61,430	61,430
Komatsu PC300 Excavator (232 HP) (L)	1900.136	1.95 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	17,940	3,500.00 /Mnth	6,825	24,765	24,765
John Deere 644 Loader (232 HP) (M)	1900.132	1.95 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	12,870	3,700.00 /Mnth	7,215	20,085	20,085
Water Truck, 4,000 Gallon (L)	1900.210	1.95 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	9,360	1,200.00 /Mnth	2,340	11,700	11,700
John Deere 750 Dozer (168 HP) (L)	1900.120	1.95 Mnth	/Mnth		/Mnth			7,000.00 /Mnth	13,650	3,000.00 /Mnth	5,850	19,500	19,500
Haul Truck - 35 Ton (393 HP) (L)	1900.210	1.95 Mnth	/Mnth		/Mnth			13,500.00 /Mnth	26,325	4,500.00 /Mnth	8,775	35,100	35,100
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	1.95 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	4,875	500.00 /Mnth	975	5,850	5,850
Bobcat Skid Steer (85hp)- track (L)	1900.131	1.50 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	5,700	2,000.00 /Mnth	3,000	8,700	8,700
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	1.50 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	5,700	1,800.00 /Mnth	2,700	8,400	8,400
Sakai SV540 Compactor Single Drum 84" (160 HP) (L)	1900.138	1.95 Mnth	/Mnth		/Mnth			3,900.00 /Mnth	7,605	1,650.00 /Mnth	3,218	10,823	10,823
0235- Solids Holding Tanks													
Backfill - Mass	2319.302	447.00 cy	33.00 /mh	2,213	/cy			/cy		/cy		2,213	3,186
Import Fill - Structural Fill	2305.100	291.00 cy	/cy		17.00 /ton	7,421		/cy		/cy		7,421	7,421
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.13 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	1,168	3,500.00 /Mnth	445	1,613	1,613
John Deere 644 Loader (232 HP) (M)	1900.132	0.13 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	838	3,700.00 /Mnth	470	1,308	1,308
Water Truck, 4,000 Gallon (L)	1900.210	0.13 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	610	1,200.00 /Mnth	152	762	762
John Deere 750 Dozer (168 HP) (L)	1900.120	0.13 Mnth	/Mnth		/Mnth			7,000.00 /Mnth	889	3,000.00 /Mnth	381	1,270	1,270
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.13 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	318	500.00 /Mnth	64	381	381
Bobcat Skid Steer (85hp)- track (L)	1900.131	0.13 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	483	2,000.00 /Mnth	254	737	737
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.13 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	483	1,800.00 /Mnth	229	711	711
Dirtwork Dirtwork													
0234- Site Ballance Haul Off Dirt													
Load Dirt Haul off	2317.105	46,829.00 cy	33.00 /mh	50,997	/cy			/cy		/cy		50,997	73,435
Komatsu PC300 Excavator (232 HP) (L)	1900.136	2.83 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	26,036	3,500.00 /Mnth	9,905	35,941	35,941
Water Truck, 4,000 Gallon (L)	1900.210	2.83 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	13,584	1,200.00 /Mnth	3,396	16,980	16,980
Dump Truck, End Dump (haul off 25,000 cy, 21,829 to pond 3)	1900.210	3,121.00 Hrs	/Hrs		/Hrs		507,162	0.00 /Hrs	0	/Hrs		507,162	507,162
Haul Truck - 35 Ton (393 HP) (L)	1900.210	2.83 Mnth	/Mnth		/Mnth			13,500.00 /Mnth	38,205	4,500.00 /Mnth	12,735	50,940	50,940
0235- Underslab Rock at headworks under grit chambers													
Backfill - Mass	2319.302	45.00 cy	33.00 /mh	1,188	/cy			/cy		/cy		1,188	1,711

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
0235- Underslab Rock at headworks under grit chambers													
Import Fill Stone 3/4"	2305.100	45.00 cy	/cy		36.00 /ton	2,592		/cy		/cy		2,592	2,592
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.05 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	469	3,500.00 /Mnth	179	648	648
John Deere 644 Loader (232 HP) (M)	1900.132	0.05 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	337	3,700.00 /Mnth	189	525	525
Bobcat Skid Steer (85hp)- track (L)	1900.131	0.05 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	194	2,000.00 /Mnth	102	296	296
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.05 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	128	500.00 /Mnth	26	153	153
0235- Underslab Rock at Influent Pump Station													
Backfill - Mass	2319.302	40.00 cy	33.00 /mh	1,056	/cy			/cy		/cy		1,056	1,521
Import Fill Stone 3/4"	2305.100	40.00 cy	/cy		36.00 /ton	2,304		/cy		/cy		2,304	2,304
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.05 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	414	3,500.00 /Mnth	158	572	572
John Deere 644 Loader (232 HP) (M)	1900.132	0.05 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	297	3,700.00 /Mnth	167	464	464
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.05 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	113	500.00 /Mnth	23	135	135
Bobcat Skid Steer (85hp)- track (L)	1900.131	0.05 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	171	2,000.00 /Mnth	90	261	261
0235- Underslab Rock at Equilization Basin													
Backfill - Mass	2319.302	260.00 cy	33.00 /mh	2,145	/cy			/cy		/cy		2,145	3,089
Import Fill Stone 3/4"	2305.100	260.00 cy	/cy		36.00 /ton	14,976		/cy		/cy		14,976	14,976
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.15 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	1,362	3,500.00 /Mnth	518	1,880	1,880
John Deere 644 Loader (232 HP) (M)	1900.132	0.15 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	977	3,700.00 /Mnth	548	1,524	1,524
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.15 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	370	500.00 /Mnth	74	444	444
Bobcat Skid Steer (85hp)- track (L)	1900.131	0.15 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	562	2,000.00 /Mnth	296	858	858
0235- Underslab Rock At Process basins 1-3													
Backfill - Mass	2319.302	860.00 cy	33.00 /mh	7,095	/cy			/cy		/cy		7,095	10,217
Import Fill Stone 3/4"	2305.100	860.00 cy	/cy		36.00 /ton	49,536		/cy		/cy		49,536	49,536
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.33 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	2,999	3,500.00 /Mnth	1,141	4,140	4,140
John Deere 644 Loader (232 HP) (M)	1900.132	0.33 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	2,152	3,700.00 /Mnth	1,206	3,358	3,358
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.33 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	815	500.00 /Mnth	163	978	978
Bobcat Skid Steer (85hp)- track (L)	1900.131	0.33 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	1,239	2,000.00 /Mnth	652	1,891	1,891
0235- Underslab Rock at MBR													
Backfill - Mass	2319.302	160.00 cy	33.00 /mh	3,168	/cy			/cy		/cy		3,168	4,562
Import Fill Stone 3/4"	2305.100	160.00 cy	/cy		36.00 /ton	9,216		/cy		/cy		9,216	9,216
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.13 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	1,196	3,500.00 /Mnth	455	1,651	1,651
John Deere 644 Loader (232 HP) (M)	1900.132	0.13 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	858	3,700.00 /Mnth	481	1,339	1,339
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.13 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	325	500.00 /Mnth	65	390	390
Bobcat Skid Steer (85hp)- track (L)	1900.131	0.13 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	494	2,000.00 /Mnth	260	754	754
Excavation Excavation													
0234- Excavation Site Drain Lift Station													
Excavation - Mass	2317.105	4,360.00 cy	33.00 /mh	13,669	/cy			/cy		/cy		13,669	19,683
Komatsu PC400 Excavator (330 HP) (L)	1900.136	0.56 Mnth	/Mnth		/Mnth			11,500.00 /Mnth	6,440	4,000.00 /Mnth	2,240	8,680	8,680
John Deere 644 Loader (232 HP) (M)	1900.132	0.56 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	3,696	3,700.00 /Mnth	2,072	5,768	5,768
Water Truck, 4,000 Gallon (L)	1900.210	0.56 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	2,688	1,200.00 /Mnth	672	3,360	3,360
Haul Truck - 35 Ton (393 HP) (L)	1900.210	0.56 Mnth	/Mnth		/Mnth			13,500.00 /Mnth	7,560	4,500.00 /Mnth	2,520	10,080	10,080
John Deere 750 Dozer (168 HP) (L)	1900.120	0.56 Mnth	/Mnth		/Mnth			7,000.00 /Mnth	3,920	3,000.00 /Mnth	1,680	5,600	5,600
Precompact Subgrade Below Foundations	2300.600	50.00 sy	33.00 /mh	248	/sy			/sy		/sy		248	356
Machine Grade Below Structure	2301.100	50.00 sy	33.00 /mh	248	/sy			/sy		/sy		248	356
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.04 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	377	3,500.00 /Mnth	144	521	521
John Deere 644 Loader (232 HP) (M)	1900.132	0.04 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	271	3,700.00 /Mnth	152	422	422
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.04 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	103	500.00 /Mnth	21	123	123
Engineered/Stamped Design for Excavation	2317.105	1.00 ls	/ls		/ls		3,500	/ls		/ls		3,500	3,500
Shoring System for existing lift station	2250.040	1.00 ls	33.00 /mh	33	/ls	25,000.00	25,000	/ls		/ls		25,033	25,048
0234- Excavate Electric Building													
Excavation - Mass	2317.105	480.00 cy	33.00 /mh	1,901	/cy			/cy		/cy		1,901	2,737
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.12 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	1,104	3,500.00 /Mnth	420	1,524	1,524
John Deere 644 Loader (232 HP) (M)	1900.132	0.12 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	792	3,700.00 /Mnth	444	1,236	1,236
Water Truck, 4,000 Gallon (L)	1900.210	0.12 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	576	1,200.00 /Mnth	144	720	720
Precompact Subgrade Below Foundations	2300.600	50.00 sy	33.00 /mh	248	/sy			/sy		/sy		248	356
Machine Grade Below Structure	2301.100	50.00 sy	33.00 /mh	248	/sy			/sy		/sy		248	356
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.04 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	156	1,800.00 /Mnth	74	230	230
John Deere 644 Loader (232 HP) (M)	1900.132	0.04 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	271	3,700.00 /Mnth	152	422	422
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.04 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	103	500.00 /Mnth	21	123	123
Bobcat Skid Steer (85hp)- track (L)	1900.131	0.04 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	156	2,000.00 /Mnth	82	238	238
0234- Excavate Generator and MCC Pad													
Excavation - Mass	2317.105	140.00 cy	33.00 /mh	554	/cy			/cy		/cy		554	798
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.05 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	488	3,500.00 /Mnth	186	673	673
John Deere 644 Loader (232 HP) (M)	1900.132	0.05 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	350	3,700.00 /Mnth	196	546	546
Water Truck, 4,000 Gallon (L)	1900.210	0.05 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	254	1,200.00 /Mnth	64	318	318
Precompact Subgrade Below Foundations	2300.600	50.00 sy	33.00 /mh	248	/sy			/sy		/sy		248	356
Machine Grade Below Structure	2301.100	50.00 sy	33.00 /mh	248	/sy			/sy		/sy		248	356
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.04 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	156	1,800.00 /Mnth	74	230	230
John Deere 644 Loader (232 HP) (M)	1900.132	0.04 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	271	3,700.00 /Mnth	152	422	422
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.04 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	103	500.00 /Mnth	21	123	123
Bobcat Skid Steer (85hp)- track (L)	1900.131	0.04 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	156	2,000.00 /Mnth	82	238	238
0234- Excavate Headworks Building													
Excavation - Mass	2317.105	5,915.00 cy	33.00 /mh	15,616	/cy			/cy		/cy		15,616	22,486
Komatsu PC400 Excavator (330 HP) (L)	1900.136	0.67 Mnth	/Mnth		/Mnth			11,500.00 /Mnth	7,705	4,000.00 /Mnth	2,680	10,385	10,385
John Deere 644 Loader (232 HP) (M)	1900.132	0.67 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	4,422	3,700.00 /Mnth	2,479	6,901	6,901
Water Truck, 4,000 Gallon (L)	1900.210	0.67 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	3,216	1,200.00 /Mnth	804	4,020	4,020
Haul Truck - 35 Ton (393 HP) (L)	1900.210	0.67 Mnth	/Mnth		/Mnth			13,500.00 /Mnth	9,045	4,500.00 /Mnth	3,015	12,060	12,060
Precompact Subgrade Below Foundations	2300.600	900.00 sy	33.00 /mh	594	/sy			/sy		/sy		594	855
Machine Grade Below Structure	2301.100	900.00 sy	33.00 /mh	594	/sy			/sy		/sy		594	855
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.05 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	460	3,500.00 /Mnth	175	635	635
John Deere 644 Loader (232 HP) (M)	1900.132	0.05 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	330	3,700.00 /Mnth	185	515	515
Water Truck, 4,000 Gallon (L)	1900.210	0.05 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	240	1,200.00 /Mnth	60	300	300

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
0234- Excavate Headworks Building													
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.05 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	125	500.00 /Mnth	25	150	150
John Deere 750 Dozer (168 HP) (L)	1900.120	0.67 Mnth	/Mnth		/Mnth			7,000.00 /Mnth	4,690	3,000.00 /Mnth	2,010	6,700	6,700
Engineered/Stamped Design for Excavation	2317.105	1.00 ls	/ls		/ls		3,500	/ls		/ls		3,500	3,500
0234- Excavate Influent Pump Station													
Excavation - Mass	2317.105	3,670.00 cy	33.00 /mh	8,478	/cy			/cy		/cy		8,478	12,208
Komatsu PC400 Excavator (330 HP) (L)	1900.136	0.35 Mnth	/Mnth		/Mnth			11,500.00 /Mnth	4,025	4,000.00 /Mnth	1,400	5,425	5,425
John Deere 644 Loader (232 HP) (M)	1900.132	0.35 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	2,310	3,700.00 /Mnth	1,295	3,605	3,605
Haul Truck - 35 Ton (393 HP) (L)	1900.210	0.35 Mnth	/Mnth		/Mnth			13,500.00 /Mnth	4,725	4,500.00 /Mnth	1,575	6,300	6,300
Water Truck, 4,000 Gallon (L)	1900.210	0.35 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	1,680	1,200.00 /Mnth	420	2,100	2,100
Precompact Subgrade Below Foundations	2300.600	50.00 sy	33.00 /mh	495	/sy			/sy		/sy		495	713
Machine Grade Below Structure	2301.100	50.00 sy	33.00 /mh	495	/sy			/sy		/sy		495	713
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.04 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	377	3,500.00 /Mnth	144	521	521
John Deere 644 Loader (232 HP) (M)	1900.132	0.04 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	271	3,700.00 /Mnth	152	422	422
Water Truck, 4,000 Gallon (L)	1900.210	0.04 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	197	1,200.00 /Mnth	49	246	246
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.04 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	103	500.00 /Mnth	21	123	123
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.04 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	156	1,800.00 /Mnth	74	230	230
Bobcat Skid Steer (85hp)- track (L)	1900.131	0.04 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	156	2,000.00 /Mnth	82	238	238
John Deere 750 Dozer (168 HP) (L)	1900.120	0.35 Mnth	/Mnth		/Mnth			7,000.00 /Mnth	2,450	3,000.00 /Mnth	1,050	3,500	3,500
0234- Excavate MBR Building													
Excavation - Mass	2317.105	13,227.00 cy	33.00 /mh	28,372	/cy			/cy		/cy		28,372	40,856
Komatsu PC400 Excavator (330 HP) (L)	1900.136	1.04 Mnth	/Mnth		/Mnth			11,500.00 /Mnth	11,960	4,000.00 /Mnth	4,160	16,120	16,120
John Deere 644 Loader (232 HP) (M)	1900.132	1.04 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	6,864	3,700.00 /Mnth	3,848	10,712	10,712
Water Truck, 4,000 Gallon (L)	1900.210	1.04 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	4,992	1,200.00 /Mnth	1,248	6,240	6,240
Haul Truck - 35 Ton (393 HP) (L)	1900.210	1.04 Mnth	/Mnth		/Mnth			13,500.00 /Mnth	14,040	4,500.00 /Mnth	4,680	18,720	18,720
Precompact Subgrade Below Foundations	2300.600	1,600.00 sy	33.00 /mh	1,584	/sy			/sy		/sy		1,584	2,281
Machine Grade Below Structure	2301.100	1,600.00 sy	33.00 /mh	1,584	/sy			/sy		/sy		1,584	2,281
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.23 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	2,088	3,500.00 /Mnth	795	2,883	2,883
John Deere 644 Loader (232 HP) (M)	1900.132	0.23 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	1,498	3,700.00 /Mnth	840	2,338	2,338
Water Truck, 4,000 Gallon (L)	1900.210	0.23 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	1,090	1,200.00 /Mnth	272	1,362	1,362
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.23 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	568	500.00 /Mnth	114	681	681
Sakai SV540 Compactor Single Drum 84" (160 HP) (L)	1900.138	0.23 Mnth	/Mnth		/Mnth			3,900.00 /Mnth	885	1,650.00 /Mnth	375	1,260	1,260
Bobcat Skid Steer (85hp)- track (L)	1900.131	0.50 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	1,900	2,000.00 /Mnth	1,000	2,900	2,900
John Deere 750 Dozer (168 HP) (L)	1900.120	1.04 Mnth	/Mnth		/Mnth			7,000.00 /Mnth	7,280	3,000.00 /Mnth	3,120	10,400	10,400
0234- Excavate Process and EQ tanks													
Excavation - Mass	2317.105	46,631.00 cy	33.00 /mh	92,329	/cy			/cy		/cy		92,329	132,954
Komatsu PC400 Excavator (330 HP) (L)	1900.136	3.20 Mnth	/Mnth		/Mnth			11,500.00 /Mnth	36,800	4,000.00 /Mnth	12,800	49,600	49,600
John Deere 644 Loader (232 HP) (M)	1900.132	3.20 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	21,120	3,700.00 /Mnth	11,840	32,960	32,960
John Deere 624 Loader (172 HP) (M)	1900.132	3.20 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	19,200	3,000.00 /Mnth	9,600	28,800	28,800
Water Truck, 4,000 Gallon (L)	1900.210	1.60 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	7,680	1,200.00 /Mnth	1,920	9,600	9,600
John Deere 750 Dozer (168 HP) (L)	1900.120	3.20 Mnth	/Mnth		/Mnth			7,000.00 /Mnth	22,400	3,000.00 /Mnth	9,600	32,000	32,000
Haul Truck - 35 Ton (393 HP) (L)	1900.210	3.20 Mnth	/Mnth		/Mnth			13,500.00 /Mnth	43,200	4,500.00 /Mnth	14,400	57,600	57,600
Precompact Subgrade Below Foundations	2300.600	3,200.00 sy	33.00 /mh	5,280	/sy			/sy		/sy		5,280	7,603
Machine Grade Below Structure	2301.100	3,200.00 sy	33.00 /mh	5,280	/sy			/sy		/sy		5,280	7,603
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.43 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	3,956	3,500.00 /Mnth	1,505	5,461	5,461
John Deere 644 Loader (232 HP) (M)	1900.132	0.43 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	2,838	3,700.00 /Mnth	1,591	4,429	4,429
Water Truck, 4,000 Gallon (L)	1900.210	0.43 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	2,064	1,200.00 /Mnth	516	2,580	2,580
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.43 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	1,075	500.00 /Mnth	215	1,290	1,290
Sakai SV540 Compactor Single Drum 84" (160 HP) (L)	1900.138	0.43 Mnth	/Mnth		/Mnth			3,900.00 /Mnth	1,677	1,650.00 /Mnth	710	2,387	2,387
Engineered/Stamped Design for Excavation	2317.105	1.00 ls	/ls		/ls		3,500	/ls		/ls		3,500	3,500
Bobcat Skid Steer (85hp)- track (L)	1900.131	0.43 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	1,634	2,000.00 /Mnth	860	2,494	2,494
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.43 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	1,634	1,800.00 /Mnth	774	2,408	2,408
0234- Excavation Solids Holding Tank													
Excavation - Mass	2317.105	975.00 cy	33.00 /mh	2,896	/cy			/cy		/cy		2,896	4,170
Komatsu PC400 Excavator (330 HP) (L)	1900.136	0.13 Mnth	/Mnth		/Mnth			11,500.00 /Mnth	1,495	4,000.00 /Mnth	520	2,015	2,015
John Deere 644 Loader (232 HP) (M)	1900.132	0.13 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	858	3,700.00 /Mnth	481	1,339	1,339
Water Truck, 4,000 Gallon (L)	1900.210	0.13 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	624	1,200.00 /Mnth	156	780	780
Precompact Subgrade Below Foundations	2300.600	250.00 sy	33.00 /mh	413	/sy			/sy		/sy		413	594
Machine Grade Below Structure	2301.100	250.00 sy	33.00 /mh	413	/sy			/sy		/sy		413	594
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.05 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	432	3,500.00 /Mnth	165	597	597
John Deere 644 Loader (232 HP) (M)	1900.132	0.05 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	310	3,700.00 /Mnth	174	484	484
Water Truck, 4,000 Gallon (L)	1900.210	0.05 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	226	1,200.00 /Mnth	56	282	282
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.05 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	118	500.00 /Mnth	24	141	141
Sakai SV540 Compactor Single Drum 84" (160 HP) (L)	1900.138	0.05 Mnth	/Mnth		/Mnth			3,900.00 /Mnth	183	1,650.00 /Mnth	78	261	261
Bobcat Skid Steer (85hp)- track (L)	1900.131	0.05 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	179	2,000.00 /Mnth	94	273	273
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.05 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	179	1,800.00 /Mnth	85	263	263
0234- Excavation Site													
Excavation - Mass	2317.105	7,980.00 cy	33.00 /mh	14,484	/cy			/cy		/cy		14,484	20,857
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.60 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	5,520	3,500.00 /Mnth	2,100	7,620	7,620
John Deere 644 Loader (232 HP) (M)	1900.132	0.60 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	3,960	3,700.00 /Mnth	2,220	6,180	6,180
John Deere 624 Loader (172 HP) (M)	1900.132	0.60 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	3,600	3,000.00 /Mnth	1,800	5,400	5,400
Water Truck, 4,000 Gallon (L)	1900.210	0.60 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	2,880	1,200.00 /Mnth	720	3,600	3,600
General General													
01 -100 Dirtwork General Items													
(3rd Party) Semi Tractor Mob Dirtwork Equipment Heavy Haul with permits	1900.210	140.00 Hrs	/Hrs		/Hrs		21,000	/Hrs		/Hrs		21,000	21,000
014- Sitework Winter Conditions													
Winter Conditions Blanket Ground Cover	1572.100	1.00 ls	/ls		/ls	3,000.00	3,000	/ls		/ls		3,000	3,000
Labor Winter Conditions Sitework	1572.100	8.00 mnth	33.00 /mh	12,144	/mnth	0.00	0	/mnth		/mnth		12,144	17,487
Ground Heater E2200 (In @ 1.1 gal/hr *3 24/7) (L) ((OWNED ONLY-50% DISCOUNTED RATE)	1900.400	3.00 Mnth	/Mnth		/Mnth			7,000.00 /Mnth	21,000	3,800.00 /Mnth	11,400	32,400	32,400
John Deere 644 Loader (232 HP) (M)	1900.132	0.50 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	3,300	3,700.00 /Mnth	1,850	5,150	5,150
Bobcat Skid Steer (85hp)- track (L)	1900.131	0.50 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	1,900	2,000.00 /Mnth	1,000	2,900	2,900

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
312319 Dewatering													
01 CIV Civil													
Dewatering Dewatering													
0238-1 Dewatering ditch for minor water at headworks grit basins													
Trench Excavtion 0- 4'	2333.010	220.00 lf	33.00 /mh	581	/lf			/lf		/lf		581	836
Trench Backfill 0- 4'	2333.020	220.00 lf	33.00 /mh	726	/lf			/lf		/lf		726	1,045
Utility Bedding Stone 3/4"	2305.200	85.00 cy	/cy		36.00 /ton	4,896		/cy		/cy		4,896	4,896
Spoils to Waste	2333.060	85.00 cy	33.00 /mh	281	/cy			/cy		/cy		281	404
Trench Wrap	2333.040	295.00 sy	33.00 /mh	195	1.50 /sy	487		/sy		/sy		681	767
HDPE Coiled Pipe Perforated 4	2631.201	220.00 lf	33.00 /mh	581	4.00 /lf	924		/lf		/lf		1,505	1,760
John Deere 624 Loader (172 HP) (M)	1900.132	0.25 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	1,500	3,000.00 /Mnth	750	2,250	2,250
Excavate Sump 5' Deep	2240.200	4.00 ea	33.00 /mh	528	/ea			250.00 /ea	1,000	/ea		1,528	1,760
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.25 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	950	1,800.00 /Mnth	450	1,400	1,400
Bobcat Skid Steer (85hp)- track (L)	1900.131	0.25 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	950	2,000.00 /Mnth	500	1,450	1,450
3" Pump & Hoses	2240.120	6.00 mnth	33.00 /mh		250.00 /mnth	1,500		400.00 /mnth	2,400	/mnth		3,900	3,900
0238-1 Minor Dewatering Ditch at In Plant Lift Station													
Trench Excavtion 0- 4'	2333.010	100.00 lf	33.00 /mh	264	/lf			/lf		/lf		264	380
Trench Backfill 0- 4'	2333.020	100.00 lf	33.00 /mh	330	/lf			/lf		/lf		330	475
Utility Bedding Stone 3/4"	2305.200	40.00 cy	/cy		36.00 /ton	2,304		/cy		/cy		2,304	2,304
Spoils to Waste	2333.060	40.00 cy	33.00 /mh	132	/cy			/cy		/cy		132	190
Trench Wrap	2333.040	135.00 sy	33.00 /mh	89	1.50 /sy	223		/sy		/sy		312	351
HDPE Coiled Pipe Perforated 4	2631.201	100.00 lf	33.00 /mh	264	4.00 /lf	420		/lf		/lf		684	800
John Deere 624 Loader (172 HP) (M)	1900.132	0.25 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	1,500	3,000.00 /Mnth	750	2,250	2,250
Excavate Sump 5' Deep	2240.200	4.00 ea	33.00 /mh	528	/ea			250.00 /ea	1,000	/ea		1,528	1,760
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.25 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	950	1,800.00 /Mnth	450	1,400	1,400
Bobcat Skid Steer (85hp)- track (L)	1900.131	0.25 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	950	2,000.00 /Mnth	500	1,450	1,450
3" Pump & Hoses	2240.120	3.00 Mnth	33.00 /mh		250.00 /Mnth	750		400.00 /Mnth	1,200	/Mnth		1,950	1,950
0238-1 Process Basins Minor Dewatering													
Trench Excavtion 0- 4'	2333.010	1,200.00 lf	33.00 /mh	3,168	/lf			/lf		/lf		3,168	4,562
Trench Backfill 0- 4'	2333.020	1,200.00 lf	33.00 /mh	3,960	/lf			/lf		/lf		3,960	5,702
Utility Bedding Stone 3/4"	2305.200	390.00 cy	/cy		36.00 /ton	22,464		/cy		/cy		22,464	22,464
Spoils to Waste	2333.060	390.00 cy	33.00 /mh	1,287	/cy			/cy		/cy		1,287	1,853
Trench Wrap	2333.040	1,600.00 sy	33.00 /mh	1,056	1.50 /sy	2,640		/sy		/sy		3,696	4,161
HDPE Coiled Pipe Perforated 4	2631.201	1,200.00 lf	33.00 /mh	3,168	4.00 /lf	5,040		/lf		/lf		8,208	9,602
John Deere 624 Loader (172 HP) (M)	1900.132	1.00 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	6,000	3,000.00 /Mnth	3,000	9,000	9,000
Excavate Sump 5' Deep	2240.200	12.00 ea	33.00 /mh	1,584	/ea			250.00 /ea	3,000	/ea		4,584	5,281
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	1.00 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	3,800	1,800.00 /Mnth	1,800	5,600	5,600
Bobcat Skid Steer (85hp)- track (L)	1900.131	1.00 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	3,800	2,000.00 /Mnth	2,000	5,800	5,800
3" Pump & Hoses	2240.120	12.00 Mnth	33.00 /mh		250.00 /Mnth	3,000		400.00 /Mnth	4,800	/Mnth		7,800	7,800
0238-1 Minor Dewatering Trench at MBR Basins													
Trench Excavtion 0- 4'	2333.010	230.00 lf	33.00 /mh	607	/lf			/lf		/lf		607	874
Trench Backfill 0- 4'	2333.020	230.00 lf	33.00 /mh	759	/lf			/lf		/lf		759	1,093
Utility Bedding Stone 3/4"	2305.200	75.00 cy	/cy		36.00 /ton	4,320		/cy		/cy		4,320	4,320
Spoils to Waste	2333.060	75.00 cy	33.00 /mh	248	/cy			/cy		/cy		248	356
Trench Wrap	2333.040	305.00 sy	33.00 /mh	201	1.50 /sy	503		/sy		/sy		705	793
HDPE Coiled Pipe Perforated 4	2631.201	230.00 lf	33.00 /mh	607	4.00 /lf	966		/lf		/lf		1,573	1,840
John Deere 624 Loader (172 HP) (M)	1900.132	0.25 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	1,500	3,000.00 /Mnth	750	2,250	2,250
Excavate Sump 5' Deep	2240.200	4.00 ea	33.00 /mh	528	/ea			250.00 /ea	1,000	/ea		1,528	1,760
Bobcat Skid Steer (85hp)- track (L)	1900.131	0.25 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	950	2,000.00 /Mnth	500	1,450	1,450
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.25 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	950	1,800.00 /Mnth	450	1,400	1,400
3" Pump & Hoses	2240.120	6.00 Mnth	33.00 /mh		250.00 /Mnth	1,500		400.00 /Mnth	2,400	/Mnth		3,900	3,900
0238-1 Influent Pump Station Minor Dewatering													
Trench Excavtion 0- 4'	2333.010	160.00 lf	33.00 /mh	422	/lf			/lf		/lf		422	608
Trench Backfill 0- 4'	2333.020	160.00 lf	33.00 /mh	528	/lf			/lf		/lf		528	760
Utility Bedding Stone 3/4"	2305.200	55.00 cy	/cy		36.00 /ton	3,168		/cy		/cy		3,168	3,168
Spoils to Waste	2333.060	55.00 cy	33.00 /mh	182	/cy			/cy		/cy		182	261
Trench Wrap	2333.040	215.00 sy	33.00 /mh	142	1.50 /sy	355		/sy		/sy		497	559
HDPE Coiled Pipe Perforated 4	2631.201	160.00 lf	33.00 /mh	422	4.00 /lf	672		/lf		/lf		1,094	1,280
John Deere 624 Loader (172 HP) (M)	1900.132	0.25 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	1,500	3,000.00 /Mnth	750	2,250	2,250
Excavate Sump 5' Deep	2240.200	4.00 ea	33.00 /mh	528	/ea			250.00 /ea	1,000	/ea		1,528	1,760
3" Pump & Hoses	2240.120	6.00 Mnth	33.00 /mh		250.00 /Mnth	1,500		400.00 /Mnth	2,400	/Mnth		3,900	3,900
Bobcat E85 Mini-Excavator (60 HP) (L)	1900.136	0.25 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	950	1,800.00 /Mnth	450	1,400	1,400
Bobcat Skid Steer (85hp)- track (L)	1900.131	0.25 Mnth	/Mnth		/Mnth			3,800.00 /Mnth	950	2,000.00 /Mnth	500	1,450	1,450
0238-1 Effluent Line Dewatering													
Excavate Sump 10' Deep	2240.200	12.00 ea	33.00 /mh	5,148	/ea			450.00 /ea	5,400	/ea		10,548	12,813
3" Pump & Hoses (High head to push 2000 lf of pipe)	2240.120	4.00 Mnth	33.00 /mh		2,500.00 /Mnth	10,000		400.00 /Mnth	1,600	/Mnth		11,600	11,600
Generators 50 kw, Perkins (24 hours per day)	1900.020	4.00 Mnth	/Mnth		/Mnth			4,500.00 /Mnth	18,000	1,500.00 /Mnth	6,000	24,000	24,000
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.04 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	368	3,500.00 /Mnth	140	508	508
John Deere 644 Loader (232 HP) (M)	1900.132	0.04 Mnth	/Mnth		/Mnth			6,600.00 /Mnth	264	3,700.00 /Mnth	148	412	412
Clean Rock	2305.050	200.00 cy	/cy		36.00 /ton	11,664		/cy		/cy		11,664	11,664
0238-3 Dewatering Wells at structures and deep pipe													
Subcont Well Drilling 18"	2240.300	1,280.00 lf	/lf		/lf		343,900	/lf		/lf		343,900	343,900
Casing Gravel Pack	2305.050	280.00 cy	/cy		36.00 /ton	18,900		/cy		/cy		18,900	18,900
PVC Sch 80 PIPE 3" PE	15211.203	1,600.00 lf	33.00 /mh	11,088	6.50 /lf	10,400		/lf		/lf		21,488	26,367
PVC Sch 80 90 EL 3" S	15211.207	32.00 ea	33.00 /mh	222	16.00 /ea	512		/ea		/ea		734	831
PVC Sch 80 Straight CPLG 3" S	15211.204	80.00 ea	33.00 /mh	554	22.00 /ea	1,760		/ea		/ea		2,314	2,558
PVC Valve Ball True Union Viton 3" S	15211.310	32.00 ea	33.00 /mh	222	175.00 /ea	5,600		/ea		/ea		5,822	5,919
PVC Valve Swing Check 3"	15211.350	32.00 ea	33.00 /mh	264	75.00 /ea	2,400		/ea		/ea		2,664	2,780
HD PE Pipe 10 DR 17	2631.301	3,000.00 lf	33.00 /mh	11,880	18.00 /lf	56,700		/lf		/lf		68,580	73,807
HD PE 90 bend 10 DR 17	2631.314	6.00 ea	33.00 /mh	178	250.00 /ea	1,500		/ea		/ea		1,678	1,757
HD PE 45 bend 10 DR 17	2631.314	12.00 ea	33.00 /mh	317	250.00 /ea	3,000		/ea		/ea		3,317	3,456

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
0238-3 Dewatering Wells at structures and deep pipe													
HD PE Tee 10 X 3	2631.320	32.00 ea	33.00 /mh	950	275.00 /ea	8,800		/ea		/ea		9,750	10,169
Dewatering Discharge Testing	2240.050	104.00 ea	/ea		0.00 /ea	0		/ea		100.00 /ea	10,400	10,400	10,400
Temporary Power Hookup for dewatering	1162.100	1.00 ls	/ls		/ls		25,000	/ls		/ls		25,000	25,000
Generators 100 kw, Kohler (140 HP) (L)	1900.020	20.00 Mnth	/Mnth		/Mnth			2,200.00 /Mnth	44,000	500.00 /Mnth	10,000	54,000	54,000
Dewatering Maintenance	2240.050	75.00 wk	33.00 /mh	14,850	/wk			/wk				14,850	21,384
John Deere 624 Loader (172 HP) (M)	1900.132	0.50 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	3,000	3,000.00 /Mnth	1,500	4,500	4,500
Dewatering Set Up Labor	2240.050	1.00 ls	33.00 /mh	5,280	/ls			/ls		/ls		5,280	7,603
321216 Asphalt Paving													
01 CIV Civil													
Asphalt Asphalt													
0256- Asphalt paving													
Sub-Grade/Compact Parking Lots Fine grade with Blade	2300.600	1.00 ls	33.00 /mh		/ls			/ls		/ls			
Asphalt Subcont. Bond	2740.840	1.00 ls	/ls		/ls		389,240	/ls		/ls		389,240	389,240
Asphalt Subcont. Mobilization	2740.840	1.00 ls	/ls		/ls		1,800	/ls		/ls		1,800	1,800
Asphalt Subcont.	2740.840	1.00 ls	/ls		/ls			/ls		/ls			
Asphalt Striping	2740.840	1.00 ls	/ls		/ls		6,500	/ls		/ls		6,500	6,500
323113 Chain Link Fence & Gate													
01 CIV Civil													
Fencing Fencing													
0291- Fencing subcontractor													
Sub - Fencing 6' tall with 3 strand 2400 lf plus gates	2820.980	1.00 ls	/ls		/ls		105,000	/ls		/ls		105,000	105,000
Sub - Fencing	2820.980	1.00 ls	/ls		/ls			/ls		/ls			
330000 Utilities													
01 CIV Civil													
General General													
01 -100 Yard Pipe General													
Yard Pipe Foreman	1000.100	16.00 wk	1,600.00 /wk	25,600	/wk			/wk		/wk		25,600	36,864
Pickup	1900.210	4.00 Mnth	/Mnth		/Mnth			1,000.00 /Mnth	4,000	1,065.00 /Mnth	4,260	8,260	8,260
Cell Phone	1162.100	4.00 Mnth	/Mnth		/Mnth			100.00 /Mnth	400			400	400
Bedding Box	1900.300	18.00 Mnth	/Mnth		/Mnth			450.00 /Mnth	8,100	50.00 /Mnth	900	9,000	9,000
RT Telescopic Forklift (12,000 lb) (130 HP) (L)	1900.300	4.00 Mnth	/Mnth		/Mnth			4,200.00 /Mnth	16,800	1,500.00 /Mnth	6,000	22,800	22,800
Unload Pipe	11000.250	1.00 ls	33.00 /mh	3,960	/ls			/ls		/ls		3,960	5,702
Support, Reroute, Repair Unforeseen Electrical Conflicts	16000.001	1.00 ls	/ls		/ls			/ls		/ls			
Support, Reroute, Repair Unforeseen Piping Conflicts	2333.010	1.00 ls	33.00 /mh		/ls	5,000.00	5,000	/ls		/ls		5,000	5,000
Yard Pipe Drawings	1060.100	1.00 ls	/ls		/ls	5,000.00	5,000	/ls		/ls		5,000	5,000
Storm Drainage Structures and Piping Contingency	2327.005	1.00 ls	/ls		/ls			/ls		/ls			
Cathodic Protection Contingency (answered in addendum no need)	2333.100	1.00 ls	33.00 /mh		0.00 /ls	0		/ls		/ls			
335100 Gas Distribution													
01 CIV Civil													
Yard Pipe Yard Pipe													
02614- Site Gas Piping													
Trench Excavation 0- 4'	2333.010	650.00 lf	33.00 /mh	1,716	/lf			/lf		/lf		1,716	2,471
Trench Backfill 0- 4'	2333.020	650.00 lf	33.00 /mh	2,145	/lf			/lf		/lf		2,145	3,089
Utility Bedding Peastone	2305.200	96.30 cy	/cy		25.00 /ton	3,852		/cy		/cy		3,852	3,852
Spoils to Waste	2333.060	96.30 cy	33.00 /mh	318	/cy			/cy		/cy		318	458
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.30 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	2,714	3,500.00 /Mnth	1,033	3,747	3,747
John Deere 624 Loader (172 HP) (M)	1900.132	0.30 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	1,770	3,000.00 /Mnth	885	2,655	2,655
Water Truck, 4,000 Gallon (L)	1900.210	0.15 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	710	1,200.00 /Mnth	178	888	888
Mikasa Jumping Jack Compactor (L)	1900.138	0.15 Mnth	/Mnth		/Mnth			200.00 /Mnth	30	100.00 /Mnth	15	44	44
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.15 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	370	500.00 /Mnth	74	444	444
Pot Hole Existing	2333.010	13.00 ea	33.00 /mh	1,716	/ea			/ea		/ea		1,716	2,471
Gas Pipe Sub (exterior)	15402.010	1.00 ls	/ls		/ls		30,000	/ls		/ls		30,000	30,000
338000 Precast Concrete MH & Vaults													
01 CIV Civil													
Precast Precast													
026-1- MH INF-2													
Supply Precast Package	2327.005	1.00 ls	/ls		0.00 /ls	0		/ls		/ls			
Test Manhole	2327.020	1.00 ea	33.00 /mh	264	500.00 /ea	500		/ea		/ea		764	880
Manhole 4' Base	2327.010	1.00 ea	33.00 /mh	462	0.01 /ea	0		/ea		/ea		462	665
Manhole 4' Riser	2327.010	5.00 vf	33.00 /mh	248	0.01 /vf	0		/vf		/vf		248	356
Manhole 4' Riser Coating	2327.010	5.00 vf	33.00 /mh	165	0.01 /vf	0		/vf		/vf		165	238
Manhole 4' Brick Extensions	2327.010	1.00 ea	33.00 /mh	33	0.01 /ea	0		/ea		/ea		33	48
Manhole 4' Formed Invert (Delete If By Supplier)	2327.010	1.00 ea	33.00 /mh	528	350.00 /ea	350		/ea		/ea		878	1,110
Frame & Grate - Single	2327.120	1.00 ea	33.00 /mh	33	0.01 /ea	0		/ea		/ea		33	48
Manhole 4' Flat Cover	2327.010	1.00 ea	33.00 /mh	33	0.01 /ea	0		/ch		/ea		33	48
Manhole Boots 24"	2327.090	2.00 ea	33.00 /mh	66	0.01 /ea	0		/ea		/ea		66	95
Import Road Base Class 6	2305.100	2.00 cy	/cy		25.00 /ton	90		/cy		/cy		90	90
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.10 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	920	3,500.00 /Mnth	350	1,270	1,270
John Deere 624 Loader (172 HP) (M)	1900.132	0.10 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	600	3,000.00 /Mnth	300	900	900
Water Truck, 4,000 Gallon (L)	1900.210	0.10 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	480	1,200.00 /Mnth	120	600	600
Mikasa Jumping Jack Compactor (L)	1900.138	0.10 Mnth	/Mnth		/Mnth			200.00 /Mnth	20	100.00 /Mnth	10	30	30
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.10 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	250	500.00 /Mnth	50	300	300
026-1- MH INF-3													
Test Manhole	2327.020	1.00 ea	33.00 /mh	264	500.00 /ea	500		/ea		/ea		764	880
Manhole 4' Base	2327.010	1.00 ea	33.00 /mh	396	0.01 /ea	0		/ea		/ea		396	570
Manhole 4' Riser	2327.010	5.00 vf	33.00 /mh	248	0.01 /vf	0		/vf		/vf		248	356
Manhole 4' Riser Coating	2327.010	5.00 vf	33.00 /mh	165	0.01 /vf	0		/vf		/vf		165	238

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
026-1- MH INF-3													
Manhole 4' Brick Extensions	2327.010	1.00 ea	33.00 /mh	33	0.01 /ea	0		/ea		/ea		33	48
Manhole 4' Formed Invert (Delete If By Supplier)	2327.010	1.00 ea	33.00 /mh	528	350.00 /ea	350		/ea		/ea		878	1,110
Frame & Grate - Single	2327.120	1.00 ea	33.00 /mh	33	0.01 /ea	0		/ea		/ea		33	48
Manhole 4' Flat Cover	2327.010	1.00 ea	33.00 /mh	33	0.01 /ea	0		/ch		/ea		33	48
Manhole Boots 24"	2327.090	2.00 ea	33.00 /mh	66	0.01 /ea	0		/ea		/ea		66	95
Import Road Base Class 6	2305.100	2.00 cy	/cy		25.00 /ton	90		/cy		/cy		90	90
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.10 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	920	3,500.00 /Mnth	350	1,270	1,270
John Deere 624 Loader (172 HP) (M)	1900.132	0.10 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	600	3,000.00 /Mnth	300	900	900
Water Truck, 4,000 Gallon (L)	1900.210	0.10 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	480	1,200.00 /Mnth	120	600	600
Mikasa Jumping Jack Compactor (L)	1900.138	0.10 Mnth	/Mnth		/Mnth			200.00 /Mnth	20	100.00 /Mnth	10	30	30
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.10 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	250	500.00 /Mnth	50	300	300
026-1- MH INF-4													
Test Manhole	2327.020	1.00 ea	33.00 /mh	264	500.00 /ea	500		/ea		/ea		764	880
Manhole 5' Base	2327.020	1.00 ea	33.00 /mh	396	0.01 /ea	0		/ch		/ea		396	570
Manhole 5' Riser	2327.020	6.00 vf	33.00 /mh	297	0.01 /vf	0		/vf		/vf		297	428
Manhole 5' Riser Coating	2327.020	6.00 vf	33.00 /mh	198	0.01 /vf	0		/vf		/vf		198	285
Manhole 5' Brick Extensions	2327.020	1.00 ea	33.00 /mh	33	0.01 /ea	0		/ea		/ea		33	48
Manhole 5' Formed Invert (Delete If By Supplier)	2327.020	1.00 ea	33.00 /mh	792	350.00 /ea	350		/ea		/ea		1,142	1,490
Frame & Grate - Single	2327.120	1.00 ea	33.00 /mh	33	0.01 /ea	0		/ea		/ea		33	48
Manhole 5' Flat Cover	2327.020	1.00 ea	33.00 /mh	33	0.01 /ea	0		/ea		/ea		33	48
Manhole Boots 8"	2327.090	1.00 ea	33.00 /mh	66	0.01 /ea	0		/ea		/ea		66	95
Manhole Boots 12"	2327.090	1.00 ea	33.00 /mh	66	0.01 /ea	0		/ea		/ea		66	95
Manhole Boots 24"	2327.090	1.00 ea	33.00 /mh	66	0.01 /ea	0		/ea		/ea		66	95
Manhole Boots 30"	2327.090	1.00 ea	33.00 /mh	66	0.01 /ea	0		/ea		/ea		66	95
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.10 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	920	3,500.00 /Mnth	350	1,270	1,270
John Deere 624 Loader (172 HP) (M)	1900.132	0.10 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	600	3,000.00 /Mnth	300	900	900
Water Truck, 4,000 Gallon (L)	1900.210	0.10 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	480	1,200.00 /Mnth	120	600	600
Mikasa Jumping Jack Compactor (L)	1900.138	0.10 Mnth	/Mnth		/Mnth			200.00 /Mnth	20	100.00 /Mnth	10	30	30
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.10 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	250	500.00 /Mnth	50	300	300
Import Road Base Class 6	2305.100	2.00 cy	/cy		25.00 /ton	90		/cy		/cy		90	90
026-1- MH INF-5													
Test Manhole	2327.020	1.00 ea	33.00 /mh	264	500.00 /ea	500		/ea		/ea		764	880
Manhole 5' Base	2327.020	1.00 ea	33.00 /mh	396	0.01 /ea	0		/ch		/ea		396	570
Manhole 5' Riser	2327.020	4.00 vf	33.00 /mh	198	0.01 /vf	0		/vf		/vf		198	285
Manhole 5' Riser Coating	2327.020	4.00 vf	33.00 /mh	132	0.01 /vf	0		/vf		/vf		132	190
Manhole 5' Brick Extensions	2327.020	1.00 ea	33.00 /mh	33	0.01 /ea	0		/ea		/ea		33	48
Manhole 5' Formed Invert (Delete If By Supplier)	2327.020	1.00 ea	33.00 /mh	528	350.00 /ea	350		/ea		/ea		878	1,110
Frame & Grate - Single	2327.120	1.00 ea	33.00 /mh	33	0.01 /ea	0		/ea		/ea		33	48
Manhole 5' Flat Cover	2327.020	1.00 ea	33.00 /mh	33	0.01 /ea	0		/ea		/ea		33	48
Manhole Boots 30"	2327.090	2.00 ea	33.00 /mh	132	0.01 /ea	0		/ea		/ea		132	190
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.10 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	920	3,500.00 /Mnth	350	1,270	1,270
John Deere 624 Loader (172 HP) (M)	1900.132	0.10 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	600	3,000.00 /Mnth	300	900	900
Water Truck, 4,000 Gallon (L)	1900.210	0.10 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	480	1,200.00 /Mnth	120	600	600
Mikasa Jumping Jack Compactor (L)	1900.138	0.10 Mnth	/Mnth		/Mnth			200.00 /Mnth	20	100.00 /Mnth	10	30	30
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.10 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	250	500.00 /Mnth	50	300	300
Import Road Base Class 6	2305.100	2.00 cy	/cy		25.00 /ton	90		/cy		/cy		90	90
026-1- MH PD-1													
Test Manhole	2327.020	1.00 ea	33.00 /mh	264	500.00 /ea	500		/ea		/ea		764	880
Manhole 4' Base	2327.010	1.00 ea	33.00 /mh	396	0.01 /ea	0		/ea		/ea		396	570
Manhole 4' Riser	2327.010	9.00 vf	33.00 /mh	446	0.01 /vf	0		/vf		/vf		446	642
Manhole 4' Riser Coating	2327.010	9.00 vf	33.00 /mh	297	0.01 /vf	0		/vf		/vf		297	428
Manhole 4' Brick Extensions	2327.010	1.00 ea	33.00 /mh	33	0.01 /ea	0		/ea		/ea		33	48
Manhole 4' Formed Invert (Delete If By Supplier)	2327.010	1.00 ea	33.00 /mh	528	350.00 /ea	350		/ea		/ea		878	1,110
Frame & Grate - Single	2327.120	1.00 ea	33.00 /mh	33	0.01 /ea	0		/ea		/ea		33	48
Manhole Boots 4"	2327.090	1.00 ea	33.00 /mh	66	0.01 /ea	0		/ea		/ea		66	95
Manhole Boots 12"	2327.090	2.00 ea	33.00 /mh	132	0.01 /ea	0		/ea		/ea		132	190
Import Road Base Class 6	2305.100	2.00 cy	/cy		25.00 /ton	90		/cy		/cy		90	90
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.10 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	920	3,500.00 /Mnth	350	1,270	1,270
John Deere 624 Loader (172 HP) (M)	1900.132	0.10 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	600	3,000.00 /Mnth	300	900	900
Water Truck, 4,000 Gallon (L)	1900.210	0.10 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	480	1,200.00 /Mnth	120	600	600
Mikasa Jumping Jack Compactor (L)	1900.138	0.10 Mnth	/Mnth		/Mnth			200.00 /Mnth	20	100.00 /Mnth	10	30	30
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.10 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	250	500.00 /Mnth	50	300	300
Stabilization Rock	2305.050	2.00 cy	/cy		36.00 /ton	135		/cy		/cy		135	135
026-1- WAS Cleanout MH (40M401)													
Manhole 4' Base	2327.010	1.00 ea	33.00 /mh	396	0.01 /ea	0		/ea		/ea		396	570
Manhole 4' Riser	2327.010	4.00 vf	33.00 /mh	198	0.01 /vf	0		/vf		/vf		198	285
Manhole 4' Riser Coating	2327.010	4.00 vf	33.00 /mh	132	5.00 /vf	20		/vf		/vf		152	210
Manhole 4' Brick Extensions	2327.010	1.00 ea	33.00 /mh	33	0.01 /ea	0		/ea		/ea		33	48
Frame & Grate - Single	2327.120	1.00 ea	33.00 /mh	33	0.01 /ea	0		/ea		/ea		33	48
Manhole 4' Flat Cover	2327.010	1.00 ea	33.00 /mh	33	0.01 /ea	0		/ch		/ea		33	48
Import Road Base Class 6	2305.100	2.00 cy	/cy		25.00 /ton	90		/cy		/cy		90	90
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.05 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	460	3,500.00 /Mnth	175	635	635
John Deere 624 Loader (172 HP) (M)	1900.132	0.05 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	300	3,000.00 /Mnth	150	450	450
Water Truck, 4,000 Gallon (L)	1900.210	0.05 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	240	1,200.00 /Mnth	60	300	300
Mikasa Jumping Jack Compactor (L)	1900.138	0.05 Mnth	/Mnth		/Mnth			200.00 /Mnth	10	100.00 /Mnth	5	15	15
026-2- Precast Site Drain Lift Station													
5' x 8' x 23' Precast Vault	2630.006	1.00 ea	33.00 /mh	3,696	0.01 /ea	0		/ea		/ea		3,696	5,322
Removable Grating (In Misc Metal Scope?)	2327.120	1.00 ea	33.00 /mh		275.00 /ea	275		/ea		/ea		275	275
Stabilization Rock	2305.050	4.00 cy	/cy		36.00 /ton	270		/cy		/cy		270	270
Import Road Base Class 6	2305.100	3.00 cy	/cy		25.00 /ton	135		/cy		/cy		135	135
Kobelco CK1100G-2 - 110 Ton (332 HP) (L)	1900.100	0.25 mnth	5,629.00 /mnth	1,407	550.00 /mnth	138		14,000.00 /mnth	3,500	2,500.00 /mnth	625	5,670	6,289
ReRoute Existing Utilities at Existing	2333.010	1.00 ls	33.00 /mh	2,112	5,000.00 /ls	5,000		/ls		/ls		7,112	8,041

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
026-2- Chemical Piping Vault													
4'x4'x5' Precast Vault	2630.004	1.00 ea	33.00 /mh	528	0.01 /ea	0		/ea		/ea		528	760
H20 Hatch (Supplied by Div 5)	2327.120	1.00 ea	33.00 /mh	132	2,500.00 /ea	2,500		/ea		/ea		2,632	2,690
PVC Sch 80 Cement	15211.201	1.00 qt	/qt		50.00 /qt	55		/qt		/qt		55	55
PVC Sch 80 Primer	15211.201	1.00 qt	/qt		45.00 /qt	50		/qt		/qt		50	50
PVC Sch 80 PIPE 1" PE	15211.203	20.00 lf	33.00 /mh	165	1.75 /lf	35		/lf		/lf		200	273
PVC Sch 80 90 EL 1" S	15211.207	3.00 ea	33.00 /mh	25	3.50 /ea	11		/ea		/ea		35	46
PVC Sch 80 Straight CPLG 1" S	15211.204	1.00 ea	33.00 /mh	8	5.00 /ea	5		/ea		/ea		13	17
Import Road Base Class 6	2305.100	2.00 cy	/cy		25.00 /ton	90		/cy		/cy		90	90
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.05 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	460	3,500.00 /Mnth	175	635	635
John Deere 624 Loader (172 HP) (M)	1900.132	0.05 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	300	3,000.00 /Mnth	150	450	450
Water Truck, 4,000 Gallon (L)	1900.210	0.05 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	240	1,200.00 /Mnth	60	300	300
Mikasa Jumping Jack Compactor (L)	1900.138	0.05 Mnth	/Mnth		/Mnth			200.00 /Mnth	10	100.00 /Mnth	5	15	15
400519 Ductile Iron Pipe													
00 GEN General													
Div 40 General Div 40 General													
150-01 1c 12042002 Division 40 Genral items													
Pipe Shop drawings Interior DIP	2250.210	1.00 ls	/ls		/ls			/ls		7,500.00 /ls	7,500	7,500	7,500
Kobelco CK1100G-2 - 110 Ton (332 HP) (L)	1900.100	2.00 mnth	5,629.00 /mnth	11,258	550.00 /mnth	1,100		14,000.00 /mnth	28,000	2,500.00 /mnth	5,000	45,358	50,312
Genie 32' Scissor Lift (Requires Power Source)	1900.300	6.00 Mnth	/Mnth		/Mnth			950.00 /Mnth	5,700	100.00 /Mnth	600	6,300	6,300
RT Telescopic Forklift (12,000 lb) (130 HP) (L)	1900.300	3.00 Mnth	/Mnth		/Mnth			4,200.00 /Mnth	12,600	1,500.00 /Mnth	4,500	17,100	17,100
Mechanical Foreman	1000.100	12.00 wk	1,600.00 /wk	19,200	/wk			/wk		/wk		19,200	27,648
Pipe Insulation Sub	7210.110	1.00 ls	/ls		/ls		95,000	/ls		/ls		95,000	95,000
Heat Trace entire job	16000.001	1.00 ls	/ls		/ls		141,000	/ls		/ls		141,000	141,000
Cell Phone	1162.100	3.00 Mnth	/Mnth		/Mnth			100.00 /Mnth	300	/Mnth		300	300
Pickup	1900.210	3.00 Mnth	/Mnth		/Mnth			1,000.00 /Mnth	3,000	1,065.00 /Mnth	3,195	6,195	6,195
Field Welding - Stainless	5000.985	40.00 hrs	33.00 /mh	1,320	/hrs		5,000	/hrs		/hrs		6,320	6,901
Stamped Pipe Support Drawings	2317.105	1.00 ls	/ls		/ls		7,500	/ls		/ls		7,500	7,500
Scaffolding for Piping	1900.300	1.00 ls	/ls		2,000.00 /ls	2,000		/ls		/ls		2,000	2,000
Valve Supply Package	15110.001	1.00 ls	/ls		275,000.00 /ls	275,000		/ls		/ls		275,000	275,000
Addendum #4 Div 40 adders Interior pipe	15233.405	1.00 ls	/ls		88,627.00 /ls	88,627		/ls		/ls		88,627	88,627
01 CIV Civil													
Yard Pipe Yard Pipe													
02605-2 30" North Interceptor Raw Influent (Exst MH to IPS)													
Testing Pressure & Leak - Piping	1166.100	1.00 ea	33.00 /mh	264	50.00 /ea	50		50.00 /ea	50	/ea		364	480
Trench Excavtion 10-12'	2333.010	30.00 lf	33.00 /mh	248	/lf			/lf		/lf		248	356
Trench Backfill 10-12'	2333.020	30.00 lf	33.00 /mh	248	/lf			/lf		/lf		248	356
Utility Bedding Peastone	2305.200	22.50 cy	/cy		25.00 /ton	900		/cy		/cy		900	900
Spoils to Waste	2333.060	22.50 cy	33.00 /mh	74	/cy			/cy		/cy		74	107
PVC C-900 Pipe 30 DR-25	2336.310	40.00 lf	33.00 /mh	370	350.00 /lf	14,700		/lf		/lf		15,070	15,232
DI RJ Compact Solid Sleeve 30	2511.522	4.00 ea	33.00 /mh	1,584	7,200.00 /ea	28,800		/ea		/ea		30,384	31,081
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.01 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	129	3,500.00 /Mnth	49	178	178
John Deere 624 Loader (172 HP) (M)	1900.132	0.01 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	84	3,000.00 /Mnth	42	126	126
Water Truck, 4,000 Gallon (L)	1900.210	0.01 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	34	1,200.00 /Mnth	8	42	42
Mikasa Jumping Jack Compactor (L)	1900.138	0.01 Mnth	/Mnth		/Mnth			200.00 /Mnth	1	100.00 /Mnth	1	2	2
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.01 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	18	500.00 /Mnth	4	21	21
Tracer Wire	2333.080	50.00 lf	33.00 /mh	33	0.40 /lf	22		/lf		/lf		55	70
Warning Tape Detectable	2333.080	30.00 lf	33.00 /mh	20	0.08 /lf	2		/lf		/lf		22	31
Polybag 30" and smaller	2333.090	8.00 lf	33.00 /mh	3	2.50 /lf	22		/lf		/lf		25	26
Tie to Existing	2333.010	1.00 ea	33.00 /mh	264	50.00 /ea	50		/ea		/ea		314	430
Tracer Wire Test Box	2333.080	2.00 ea	33.00 /mh	396	100.00 /ea	200		/ea		/ea		596	770
30 Bell Restrainer F/C900	2336.380	1.00 ea	33.00 /mh	198	4,200.00 /ea	4,200		/ea		/ea		4,398	4,485
Remodel Invert	2327.510	1.00 ea	33.00 /mh	528	250.00 /ea	250		/ch		/ea		778	1,010
Core Drilled Hole - 36" x 8"	15122.100	1.00 ea	33.00 /mh	198	0.01 /ea	0	4,500	/ea		/ea		4,698	4,785
Grout Pipe in Manhole 30"	2327.090	1.00 ea	33.00 /mh	198	100.00 /ea	100		/ea		/ea		298	385
Link Seal Size LS-575-S	15123.100	34.00 ea	33.00 /mh	168	45.00 /ea	1,530		/ea		/ea		1,698	1,772
Testing - Mandrel	1166.100	1.00 ls	/ls		/ls			/ls		850.00 /ls	850	850	850
Dewatering Pumps & Hoses													
Trench Stabilization Rock	2305.050	10.00 cy	/cy		36.00 /ton	675		/cy		/cy		675	675
Poly Tape	2333.090	1.00 roll	/roll		7.50 /roll	8		/roll		/roll		8	8
Quart of Gasket Lubricant	15150.035	1.00 ea	33.00 /mh		8.00 /ea	8		/ea		/ea		8	8
DI Wall Pipe MJ x PE w/ Weep Ring & Tapped Holes 30in x 1ft 6in long	15221.388	1.00 ea	33.00 /mh	528	7,900.00 /ea	7,900		/ea		/ea		8,428	8,660
09 IPS Influent Pump Station													
forced main													
02642- Influent Pump Station Burried pipe to YP connect 09M201													
Trench Excavtion 8-10'	2333.010	10.00 lf	33.00 /mh	83	/lf			/lf		/lf		83	119
Trench Excavtion 4- 6'	2333.010	5.00 lf	33.00 /mh	17	/lf			/lf		/lf		17	24
Trench Backfill 8-10'	2333.020	10.00 lf	33.00 /mh	69	/lf			/lf		/lf		69	100
Trench Backfill 4- 6'	2333.020	5.00 lf	33.00 /mh	25	/lf			/lf		/lf		25	36
Utility Bedding Gravel-Crushed	2305.200	7.89 cy	/cy		25.00 /ton	316		/cy		/cy		316	316
Spoils to Waste	2333.060	7.96 cy	33.00 /mh	26	/cy			/cy		/cy		26	38
DI Pipe MJ - Class 52 8	2511.201	8.00 lf	33.00 /mh	29	40.00 /lf	323		/lf		/lf		352	365
DI MJ Std Wgt 90 8	2511.214	1.00 ea	33.00 /mh	66	490.00 /ea	490		/ea		/ea		556	585
DI Pipe MJ - Class 52 12	2511.201	8.00 lf	33.00 /mh	32	58.00 /lf	469		/lf		/lf		500	514
Polybag 12" and smaller	2333.090	30.00 lf	33.00 /mh	10	1.00 /lf	33		/lf		/lf		43	47
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.04 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	368	3,500.00 /Mnth	140	508	508
John Deere 624 Loader (172 HP) (M)	1900.132	0.04 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	240	3,000.00 /Mnth	120	360	360
Water Truck, 4,000 Gallon (L)	1900.210	0.04 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	192	1,200.00 /Mnth	48	240	240
Polybag 30" and smaller	2333.090	5.00 lf	33.00 /mh	2	2.50 /lf	14		/lf		/lf		15	16
Mikasa Jumping Jack Compactor (L)	1900.138	0.04 Mnth	/Mnth		/Mnth			200.00 /Mnth	8	100.00 /Mnth	4	12	12
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.04 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	100	500.00 /Mnth	20	120	120

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
02642- Influent Pump Station Burried pipe to YP connect 09M201													
DI Pipe 8in. dia FxPE - 8ft. 0in.	15221.030	2.00 ea	33.00 /mh	132	1,100.00 /ea	2,200		/ea		/ea		2,332	2,390
DI MJ Compact Solid Sleeve Long 8"	2511.322	1.00 ea	33.00 /mh	33	495.00 /ea	495		/ea		/ea		528	543
DI MJ Compact Solid Sleeve Long 12"	2511.322	1.00 ea	33.00 /mh	66	850.00 /ea	850		/ea		/ea		916	945
DI Pipe 12in. dia FxPE - 7ft. 0in.	15221.030	1.00 ea	33.00 /mh	99	1,730.00 /ea	1,730		/ea		/ea		1,829	1,873
DI MJ Std Wgt 90 12	2511.214	1.00 ea	33.00 /mh	66	920.00 /ea	920		/ea		/ea		986	1,015
AIR VAC VENT													
150-55 80 INFLUENT PUMP STATION COMBINATION AIR VAC VALVE RELEIF PIPING 09M201													
PVC Sch 80 PIPE 2" PE	15211.203	20.00 lf	33.00 /mh	231	3.25 /lf	65		/lf		/lf		296	398
PVC Sch 80 90 EL 2" S	15211.207	5.00 ea	33.00 /mh	58	3.60 /ea	18		/ea		/ea		76	101
PVC Sch 80 45 EL 2" SOCXSOC	15211.208	1.00 ea	33.00 /mh	12	15.00 /ea	15		/ea		/ea		27	32
PVC Sch 80 Straight CPLG 2" S	15211.204	1.00 ea	33.00 /mh	12	14.00 /ea	14		/ea		/ea		26	31
PVC Sch 80 MALE ADPT 2" SXMT	15211.217	1.00 ea	33.00 /mh	12	17.00 /ea	17		/ea		/ea		29	34
PVC Sch 80 Cement	15211.201	1.00 qt	/qt		50.00 /qt	55		/qt		/qt		55	55
PVC Sch 80 Primer	15211.201	1.00 qt	/qt		45.00 /qt	50		/qt		/qt		50	50
PVC Sch 80/VIT UNION 2" S	15211.219	1.00 ea	33.00 /mh	12	27.00 /ea	27		/ea		/ea		39	44
Heat Trace	16000.001	1.00 ls	/ls		0.01 /ls	0		/ls		/ls		0	0
Core Drilled Hole - 2-"	15122.100	1.00 ea	33.00 /mh	132	0.01 /ea	0	150	/ea		/ea		282	340
screen for air vac valve per detail M106	2240.300	1.00 lf	/lf		50.00 /lf	53		/lf		/lf		53	53
Set Mech. Pipe Sleeves 1"6" at air vac piping to tank	3150.710	1.00 ea	33.00 /mh	132	250.00 /ea	250		/ea		/ea		382	440
Link Seal Size LS-200-C 4 links	15123.050	8.00 ea	33.00 /mh	40	6.00 /ea	48		/ea		/ea		88	105
PS Strut SS 1-5/8 x 1-5/8	15060.476	8.00 lf	33.00 /mh	79	20.00 /lf	160		/lf		/lf		239	274
PS Strut Post Base SS	15060.478	2.00 ea	33.00 /mh	33	52.00 /ea	104		/ea		/ea		137	152
PS Pipe Strut Clamp EG 2in	15060.486	1.00 ea	33.00 /mh	17	10.00 /ea	10		/ea		/ea		27	34
Ductile Iron Ductile Iron													
150-01 1c 12042002 DIP Influent Pump Station header Pipe to site 09M201													
DI Pipe 6in. dia FxF - 14ft. 0in.	15221.010	2.00 ea	33.00 /mh	198	1,500.00 /ea	3,000		/ea		/ea		3,198	3,285
DI Pipe 8in. dia FxF - 2 ft. 0in.	15221.010	5.00 ea	33.00 /mh	330	750.00 /ea	3,750		/ea		/ea		4,080	4,225
DI Pipe 8in. dia FxF - 3ft. 0in. 2- W/ 1/2 TAPS	15221.010	2.00 ea	33.00 /mh	132	1,200.00 /ea	2,400		/ea		/ea		2,532	2,590
DI Pipe 8in. dia FxF - 13ft. 0in.	15221.010	2.00 ea	33.00 /mh	264	1,950.00 /ea	3,900		/ea		/ea		4,164	4,280
DI Pipe 6in. dia FxF - 4ft. 0in. 2 W/ 1/2 TAPS	15221.030	2.00 ea	33.00 /mh	132	900.00 /ea	1,800		/ea		/ea		1,932	1,990
PS Pipe Stand for 6in DIP 3ft 0in floor to CL HDG	15060.406	2.00 ea	33.00 /mh	198	1,300.00 /ea	2,600		/ea		/ea		2,798	2,885
PS Pipe Stand for 8in DIP 3ft 0in floor to CL HDG	15060.406	5.00 ea	33.00 /mh	495	1,300.00 /ea	6,500		/ea		/ea		6,995	7,213
NBG Kit 125# SS 6in	15125.012	10.00 ea	33.00 /mh	330	75.00 /ea	750		/ea		/ea		1,080	1,225
NBG Kit 125# SS 8in	15125.012	28.00 ea	33.00 /mh	924	140.00 /ea	3,920		/ea		/ea		4,844	5,251
NBG Kit 125# SS 12in	15125.012	3.00 ea	33.00 /mh	99	180.00 /ea	540		/ea		/ea		639	683
PS Pipe Stand grout	15060.404	7.00 ea	33.00 /mh	231	10.00 /ea	70		/ea		/ea		301	403
Tap Saddle 6 x 1/2" gauge	2519.424	2.00 ea	33.00 /mh	66	105.00 /ea	210		/ea		/ea		276	305
valve ball valve threaded ss 1/2 gauge	15212.010	2.00 ea	33.00 /mh	17	50.00 /ea	100		/ea		/ea		117	124
Valve Ball Threaded SS 1/2in gauge	15110.014	4.00 ea	33.00 /mh	71	0.01 /ea	0		/ea		/ea		71	103
Stainless Steel Bushing mpt x fpt 1/2in x 3/8in gauge	15212.015	4.00 ea	33.00 /mh	26	3.00 /ea	12		/ea		/ea		38	50
Instrument - Pressure - Gauge	17400.000	4.00 ea	33.00 /mh	264	500.00 /ea	2,000		/ea		/ea		2,264	2,380
Stainless Steel Tee threaded 1/2" PI-09121	15212.055	4.00 ea	33.00 /mh	26	6.00 /ea	24		/ea		/ea		50	62
Stainless Steel Nipple 1/2" X 2"	15212.010	8.00 ea	33.00 /mh	66	7.00 /ea	56		/ea		/ea		122	151
Valve Check Flange 125# 6in	15110.040	2.00 ea	33.00 /mh	132	1,600.00 /ea	3,200		/ea		/ea		3,332	3,390
Valve Plug Flange 125# 6in	15110.650	2.00 ea	33.00 /mh	132	1,900.00 /ea	3,800		/ea		/ea		3,932	3,990
DI Flanged 90 ell 6"	15221.430	2.00 ea	33.00 /mh	66	280.00 /ea	560		/ea		/ea		626	655
DI Flanged 90 ell 8"x6" Reducing	15221.430	1.00 ea	33.00 /mh	66	350.00 /ea	350		/ea		/ea		416	445
DI Flanged Tee 8x6"	15221.455	1.00 ea	33.00 /mh	66	575.00 /ea	575		/ea		/ea		641	670
DI Flanged Tee 8"	15221.455	2.00 ea	33.00 /mh	132	650.00 /ea	1,300		/ea		/ea		1,432	1,490
Tap Saddle 8 x 1/2"	2519.424	2.00 ea	33.00 /mh	66	180.00 /ea	360		/ea		/ea		426	455
Stainless Steel Coupling 1/2"	15212.025	4.00 ea	33.00 /mh	26	4.00 /ea	16		/ea		/ea		42	54
Valve Check Flange 125# 8in	15110.040	2.00 ea	33.00 /mh	132	2,300.00 /ea	4,600		/ea		/ea		4,732	4,790
Valve Plug Flange 125# 8in	15110.650	2.00 ea	33.00 /mh	132	2,200.00 /ea	4,400		/ea		/ea		4,532	4,590
DI Flanged 90 ell 8"	15221.430	2.00 ea	33.00 /mh	99	450.00 /ea	900		/ea		/ea		999	1,043
Instrument - Pressure - INDICATOR	17400.000	4.00 ea	33.00 /mh	132	0.01 /ea	0		/ea		/ea		132	190
Instrument - Flow - Magnetic Flow Meter - 8in	17200.000	1.00 ea	33.00 /mh	132	500.00 /ea	500		/ea		/ea		632	690
DI Flanged 45 ell 8"	15221.425	2.00 ea	33.00 /mh	132	375.00 /ea	750		/ea		/ea		882	940
DI Flanged Tee 8"	15221.455	1.00 ea	33.00 /mh	66	650.00 /ea	650		/ea		/ea		716	745
DI Flanged Tee 12x8"	15221.455	1.00 ea	33.00 /mh	99	1,250.00 /ea	1,250		/ea		/ea		1,349	1,393
DI Blind Flange 12" W/ 2" TAP	15221.405	1.00 ea	33.00 /mh	66	475.00 /ea	475		/ea		/ea		541	570
Stainless Steel Nipple 2" X 4"	15212.010	2.00 ea	33.00 /mh	22	30.00 /ea	60		/ea		/ea		82	91
Valve Ball Threaded SS 2in	15110.014	1.00 ea	33.00 /mh	47	0.01 /ea	0		/ea		/ea		47	67
Valve Air/Vac Combo 2in	15110.007	1.00 ea	33.00 /mh	47	900.00 /ea	900		/ea		/ea		947	967
Valve Plug Flange 125# 8in	15110.650	1.00 ea	33.00 /mh	66	2,200.00 /ea	2,200		/ea		/ea		2,266	2,295
Valve Plug Flange 125# 12in	15110.650	1.00 ea	33.00 /mh	99	3,200.00 /ea	3,200		/ea		/ea		3,299	3,343
DI Flanged Con Red 6x5"	15221.445	2.00 ea	33.00 /mh	66	250.00 /ea	500		/ea		/ea		566	595
DI Flanged Con Red 8x5"	15221.445	2.00 ea	33.00 /mh	99	350.00 /ea	700		/ea		/ea		799	843
PS Epoxy for Anchors	15060.112	28.00 ea	33.00 /mh	92	5.00 /ea	140		/ea		/ea		232	273
PS Epoxy Anchor 5/8 x 5in SS	15060.112	28.00 ea	33.00 /mh	92	25.00 /ea	700		/ea		/ea		792	833
PS Pipe Stand grout 1"	15060.404	7.00 ea	33.00 /mh	116	10.00 /ea	70		/ea		/ea		186	236
PS Special Support for 8in DI PIPE DETAIL M-133	15060.475	4.00 ea	33.00 /mh	396	900.00 /ea	3,600		/ea		/ea		3,996	4,170
PS Special Support for 6in DI PIPE DETAIL M-133	15060.475	4.00 ea	33.00 /mh	396	850.00 /ea	3,400		/ea		/ea		3,796	3,970
Epoxy Anchor 3/4 x 5-1/2in SS 316	5001.054	24.00 ea	33.00 /mh	79	20.00 /ea	480		/ea		/ea		559	594
Heat Trace	16000.001	1.00 ls	/ls		/ls			/ls		/ls			
Insulation Subcontractor	15403.100	1.00 ls	/ls		/ls			/ls		/ls			
DI MEGAFLANGE w/ SS Bolts for DIP 6" added for cut joints	15112.230	4.00 ea	33.00 /mh	264	350.00 /ea	1,400		/ea		/ea		1,664	1,780
DI MEGAFLANGE w/ SS Bolts for DIP 8" added for cut joints	15112.230	4.00 ea	33.00 /mh	396	450.00 /ea	1,800		/ea		/ea		2,196	2,370
DI MEGAFLANGE w/ SS Bolts for DIP 12" added for cut joints	15112.230	1.00 ea	33.00 /mh	132	900.00 /ea	900		/ea		/ea		1,032	1,090
NBG Kit 125# SS 5in	15125.012	4.00 ea	33.00 /mh	132	67.00 /ea	268		/ea		/ea		400	458
10 HWK Headworks Building													
GRIT PIPE TO TRENCH													

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
150-01 1c 12042002 connection from grit inlet to tench piping 10M201													
DI Pipe 18in. dia PEXPE - 5' with weep ring 6" from end	15221.070	2.00 ea	33.00 /mh	264	2,200.00 /ea	4,400		/ea		/ea		4,664	4,780
DI Pipe 18in. dia PEXPE - 7'	15221.070	2.00 ea	33.00 /mh	264	2,200.00 /ea	4,400		/ea		/ea		4,664	4,780
DI MJ Std Wgt 90 18"	2511.214	2.00 ea	33.00 /mh	198	2,250.00 /ea	4,500		/ea		/ea		4,698	4,785
DI MJ Compact Solid Sleeve Long 18	2511.322	2.00 ea	33.00 /mh	264	1,850.00 /ea	3,700		/ea		/ea		3,964	4,080
PVC Sch 40 Pipe 4 Bell End sleeves for sampling tubes	2336.010	40.00 lf	33.00 /mh	277	10.00 /lf	420		/lf		/lf		697	819
PVC Sch 40 Long Sweep 90 Ell Socket x Socket 4	15211.175	4.00 ea	33.00 /mh	28	135.00 /ea	540		/ea		/ea		568	580
intake sample piping 2-3/8 FEP lined PE intake sample tubes	15231.005	40.00 lf	33.00 /mh	198	4.00 /lf	176		/lf		/lf		374	461
intake sampling fittings misc	2517.114	8.00 ea	33.00 /mh	53	100.00 /ea	800		/ea		/ea		853	876
piping to grit wash													
150-01 1c 12042002 DIP PUMP DISCHARGE TO WASH 10M201 & 10M202													
DI Pipe 4in. dia FxF - 1ft. 0in. glass lined 10M403 sec E	15221.030	1.00 ea	33.00 /mh	66	300.00 /ea	300		/ea		/ea		366	395
DI Pipe 4in. dia FxF - 2ft. 0in. glass lined 10M403 sec E	15221.030	1.00 ea	33.00 /mh	66	450.00 /ea	450		/ea		/ea		516	545
DI Pipe 4in. dia FxF - 3ft. 0in. glass lined 10M403 sec E	15221.030	1.00 ea	33.00 /mh	66	660.00 /ea	660		/ea		/ea		726	755
DI Pipe 4in. dia FxF - 6ft. 0in. glass lined 10M403 sec E	15221.030	2.00 ea	33.00 /mh	264	1,200.00 /ea	2,400		/ea		/ea		2,664	2,780
DI Pipe 4in. dia FxF - 12ft. 0in. glass lined 10M403 sec E	15221.030	1.00 ea	33.00 /mh	132	2,400.00 /ea	2,400		/ea		/ea		2,532	2,590
PS Flange Stand grout	15060.152	8.00 ea	33.00 /mh	264	10.00 /ea	80		/ea		/ea		344	460
DI Flanged 90 ell 4" glass lined	15221.430	5.00 ea	33.00 /mh	165	650.00 /ea	3,250		/ea		/ea		3,415	3,488
DI Flanged Con Red 6x4" glass lined	15221.445	1.00 ea	33.00 /mh	33	875.00 /ea	875		/ea		/ea		908	923
NBG Kit 125# galv 4in	15125.010	23.00 ea	33.00 /mh	759	20.00 /ea	460		/ea		/ea		1,219	1,553
NBG Kit 125# galv 6in	15125.010	1.00 ea	33.00 /mh	33	30.00 /ea	30		/ea		/ea		63	78
DI Flanged Tee 4"	15221.455	2.00 ea	33.00 /mh	132	337.00 /ea	674		/ea		/ea		806	864
PS Special floor Support for 4in DIP - HD GALV	15060.475	7.00 ea	33.00 /mh	924	750.00 /ea	5,250		/ea		/ea		6,174	6,581
PS Special wall Support for 4in DIP - HD GALV	15060.475	3.00 ea	33.00 /mh	396	750.00 /ea	2,250		/ea		/ea		2,646	2,820
Valve Plug Flange 125# 4in at p-10311	15110.650	1.00 ea	33.00 /mh	66	0.01 /ea	0		/ea		/ea		66	95
Valve Check Swing Flange 4" at p-10311	15110.058	1.00 ea	33.00 /mh	66	0.01 /ea	0		/ea		/ea		66	95
DI Blind Flange 4"	15221.405	2.00 ea	33.00 /mh	66	100.00 /ea	200		/ea		/ea		266	295
Epoxy Anchor 5/8 x 5in SS 316	5001.054	32.00 ea	33.00 /mh	106	15.00 /ea	480		/ea		/ea		586	632
Epoxy Anchor 5/8 x 5in SS 316	5001.054	9.00 ea	33.00 /mh	30	15.00 /ea	135		/ea		/ea		165	178
PS Flange Stand for 4in DIP 1ft 0in floor to centerline painted	15060.152	1.00 ea	33.00 /mh	132	850.00 /ea	850		/ea		/ea		982	1,040
PS Pipe Stand grout	15060.404	8.00 ea	33.00 /mh	264	10.00 /ea	80		/ea		/ea		344	460
DI MEGAFLANGE w/ SS Bolts for DIP 4"	15112.230	5.00 ea	33.00 /mh	248	250.00 /ea	1,250		/ea		/ea		1,498	1,606
PS Strut SS 1-5/8 x 1-5/8	15060.476	10.00 lf	33.00 /mh	99	20.00 /lf	200		/lf		/lf		299	343
to grit classifier													
150-01 1c 12042002 DIP suction line from grit to pump 10M201&10M402 sec D													
DI Pipe 4in. dia FxF - 10ft. 0in. glass lined	15221.010	2.00 ea	33.00 /mh	264	2,200.00 /ea	4,400		/ea		/ea		4,664	4,780
DI Pipe 4in. dia FxF - 6ft. 0in. glass lined	15221.010	2.00 ea	33.00 /mh	198	1,390.00 /ea	2,780		/ea		/ea		2,978	3,065
DI Pipe 4in. dia FxF - 12ft. 0in. glass lined	15221.010	6.00 ea	33.00 /mh	792	2,400.00 /ea	14,400		/ea		/ea		15,192	15,540
DI Pipe 4in. dia FxF - 10ft. 0in. glass lined	15221.010	2.00 ea	33.00 /mh	264	2,100.00 /ea	4,200		/ea		/ea		4,464	4,580
DI Pipe 4in. dia FxF - 12ft. 0in. glass lined	15221.030	1.00 ea	33.00 /mh	132	2,400.00 /ea	2,400		/ea		/ea		2,532	2,590
DI Pipe 4in. dia FxF - 14ft. 0in. glass lined	15221.030	1.00 ea	33.00 /mh	132	2,600.00 /ea	2,600		/ea		/ea		2,732	2,790
DI Pipe 4in. dia FxPE - 12ft. 0in. glass lined	15221.030	2.00 ea	33.00 /mh	264	2,400.00 /ea	4,800		/ea		/ea		5,064	5,180
DI Flanged 90 ell 4" glass lined	15221.430	6.00 ea	33.00 /mh	198	650.00 /ea	3,900		/ea		/ea		4,098	4,185
DI Flanged 45 ell 4" glass lined	15221.425	3.00 ea	33.00 /mh	99	650.00 /ea	1,950		/ea		/ea		2,049	2,093
NBG Kit 125# HDG 4in	15125.014	18.00 ea	33.00 /mh	594	18.00 /ea	324		/ea		/ea		918	1,179
DI Blind Flange 4"	15221.405	1.00 ea	33.00 /mh	33	100.00 /ea	100		/ea		/ea		133	148
NBG Kit 125# HDG 6in	15125.014	1.00 ea	33.00 /mh	33	25.00 /ea	25		/ea		/ea		58	73
DI Flanged Con Red 6x4"	15221.445	1.00 ea	33.00 /mh	33	250.00 /ea	250		/ea		/ea		283	298
PS Pipe Stand for 5in DIP 4ft 0in floor to CL ss	15060.406	2.00 ea	33.00 /mh	264	1,300.00 /ea	2,600		/ea		/ea		2,864	2,980
PS Pipe Stand for 5in DIP 4ft 0in floor to CL ss	15060.406	2.00 ea	33.00 /mh	264	1,300.00 /ea	2,600		/ea		/ea		2,864	2,980
PS Epoxy for Anchors	15060.112	2.00 ea	33.00 /mh	7	5.00 /ea	10		/ea		/ea		17	20
PS Epoxy for Anchors	15060.112	2.00 ea	33.00 /mh	7	5.00 /ea	10		/ea		/ea		17	20
PS Pipe Stand grout	15060.404	4.00 ea	33.00 /mh	132	10.00 /ea	40		/ea		/ea		172	230
DI MEGAFLANGE w/ SS Bolts for DIP 4"	15112.230	4.00 ea	33.00 /mh	198	250.00 /ea	1,000		/ea		/ea		1,198	1,285
DI Wall Pipe MJ x MJ 4in x 1ft 0in long	15221.316	4.00 ea	33.00 /mh	198	550.00 /ea	2,200		/ea		/ea		2,398	2,485
DI MEGAFLANGE w/ SS Bolts for DIP 4"	15112.230	2.00 ea	33.00 /mh	99	250.00 /ea	500		/ea		/ea		599	643
DI Flanged 90 ell 4"	15221.430	1.00 ea	33.00 /mh	33	180.00 /ea	180		/ea		/ea		213	228
Trench Excavtion 12-14'	2333.010	50.00 lf	33.00 /mh	297	/lf			/lf		/lf		297	428
Trench Backfill 12-14'	2333.020	50.00 lf	33.00 /mh	380	/lf			/lf		/lf		380	546
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.25 Mnth	/Mnth		/Mnth			8,000.00 /Mnth	2,000	3,500.00 /Mnth	875	2,875	2,875
trench D to exterior													
150-01 1c 12042002 Trench Drain to Exterior 10M201													
DI Pipe 6in. dia FxPE - 5ft. 0in.	15221.030	1.00 ea	33.00 /mh	99	650.00 /ea	650		/ea		/ea		749	793
DI Pipe 8in. dia FxPE - 5ft. 0in.	15221.030	1.00 ea	33.00 /mh	99	850.00 /ea	850		/ea		/ea		949	993
DI Pipe 8in. dia FxPE - 7ft. 0in.	15221.030	1.00 ea	33.00 /mh	198	1,100.00 /ea	1,100		/ea		/ea		1,298	1,385
DI Pipe 8in. dia FxPE - 9ft. 0in.	15221.030	1.00 ea	33.00 /mh	198	1,140.00 /ea	1,140		/ea		/ea		1,338	1,425
DI Pipe 8in. dia FxPE - 13ft. 0in.	15221.030	1.00 ea	33.00 /mh	264	1,680.00 /ea	1,680		/ea		/ea		1,944	2,060
DI Flanged 90 ell 8"	15221.430	2.00 ea	33.00 /mh	132	450.00 /ea	900		/ea		/ea		1,032	1,090
DI Flanged Con Red 8x6"	15221.445	1.00 ea	33.00 /mh	66	350.00 /ea	350		/ea		/ea		416	445
NBG Kit 125# HDG 8in	15125.014	1.00 ea	33.00 /mh	33	30.00 /ea	30		/ea		/ea		63	78
FCA for DIP 8"	15112.090	1.00 ea	33.00 /mh	66	450.00 /ea	450		/ea		/ea		516	545
DI MEGAFLANGE w/ SS Bolts for DIP 8"	15112.230	3.00 ea	33.00 /mh	198	450.00 /ea	1,350		/ea		/ea		1,548	1,635
DI Wall Pipe FLG x FLG w/ Collar 8in x 1ft 6in long	15221.328	2.00 ea	33.00 /mh	528	900.00 /ea	1,800		/ea		/ea		2,328	2,560
DI MJ Compact Solid Sleeve Long 6"	2511.322	1.00 ea	33.00 /mh	66	395.00 /ea	395		/ea		/ea		461	490
Testing Pressure & Leak - Piping	1166.100	1.00 ea	33.00 /mh	264	50.00 /ea	50		50.00 /ea	50	/ea		364	480
trench bypass													
02642- Trench Bypass pipe between grit 10M201													
Testing Pressure & Leak - Piping	1166.100	1.00 ea	33.00 /mh	264	50.00 /ea	50		50.00 /ea	50	/ea		364	480
Trench Excavtion 4- 6'	2333.010	18.00 lf	33.00 /mh	59	/lf			/lf		/lf		59	86
Trench Backfill 4- 6'	2333.020	18.00 lf	33.00 /mh	89	/lf			/lf		/lf		89	128
Utility Bedding Gravel-Crushed	2305.200	1.03 cy	/cy		25.00 /ton	41		/cy		/cy		41	41
Spoils to Waste	2333.060	2.67 cy	33.00 /mh	9	/cy			/cy		/cy		9	13

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
02642- Trench Bypass pipe between grit 10M201													
DI Pipe MJ - PEX PE Class 52 30	2511.201	18.00 lf	33.00 /mh	475	230.00 /lf	4,181		/lf		/lf		4,657	4,866
Polybag 12" and Smaller	2333.090	18.00 lf	33.00 /mh	6	1.00 /lf	20		/lf		/lf		26	28
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.01 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	74	3,500.00 /Mnth	28	102	102
John Deere 624 Loader (172 HP) (M)	1900.132	0.01 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	48	3,000.00 /Mnth	24	72	72
Mikasa Jumping Jack Compactor (L)	1900.138	0.00 Mnth	/Mnth		/Mnth			200.00 /Mnth	1	100.00 /Mnth	0	1	1
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.00 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	10	500.00 /Mnth	2	12	12
Sleeve SS 36" x 12	15121.200	2.00 ea	33.00 /mh	1,056	4,700.00 /ea	9,400		/ea		/ea		10,456	10,921
DI MJ Compact Solid Sleeve Long 30	2511.322	1.00 ea	33.00 /mh	396	3,600.00 /ea	3,600		/ea		/ea		3,996	4,170
Link Seal Size LS-575-C	15123.050	80.00 ea	33.00 /mh	396	45.00 /ea	3,600		/ea		/ea		3,996	4,170
Grout Pipe in Manhole 30"	2327.090	2.00 ea	33.00 /mh	396	100.00 /ea	200		/ea		/ea		596	770
11 EQB EQ Basin													
Ductile Iron Ductile Iron													
150-01 1c 12042002 DIP process basin pump and basin piping 11M201 thru 11M403													
DI Pipe 8in. dia FxF - 6ft. 0in.	15221.010	3.00 ea	33.00 /mh	396	1,180.00 /ea	3,540		/ea		/ea		3,936	4,110
DI Pipe 12in. dia FxF - 2ft. 0in.	15221.030	4.00 ea	33.00 /mh	264	790.00 /ea	3,160		/ea		/ea		3,424	3,540
DI Pipe 12in. dia FxF - 4ft. 0in.	15221.030	1.00 ea	33.00 /mh	66	1,150.00 /ea	1,150		/ea		/ea		1,216	1,245
DI Pipe 8in. dia FxF - 18ft. 0in.	15221.030	3.00 ea	33.00 /mh	594	2,200.00 /ea	6,600		/ea		/ea		7,194	7,455
DI Pipe 12in. dia FxF - 5ft. 0in.	15221.030	1.00 ea	33.00 /mh	66	1,600.00 /ea	1,600		/ea		/ea		1,666	1,695
DI Pipe 12in. dia FxF - 7ft. 0in.	15221.030	1.00 ea	33.00 /mh	99	1,730.00 /ea	1,730		/ea		/ea		1,829	1,873
DI Pipe 12in. dia FxV - 2ft. 0in. w/ 2" tap	15221.040	1.00 ea	33.00 /mh	66	1,950.00 /ea	1,950		/ea		/ea		2,016	2,045
DI Pipe 12in. dia FxV - 4ft. 6in.	15221.040	1.00 ea	33.00 /mh	66	1,450.00 /ea	1,450		/ea		/ea		1,516	1,545
DI Flanged 90 ell 12"	15221.430	4.00 ea	33.00 /mh	264	900.00 /ea	3,600		/ea		/ea		3,864	3,980
DI Flanged 90 ell 8" 3 w/ taps 1/2 for pressure gauge	15221.430	6.00 ea	33.00 /mh	297	1,700.00 /ea	10,200		/ea		/ea		10,497	10,628
DI Flanged Tee 12x8"	15221.455	1.00 ea	33.00 /mh	99	1,250.00 /ea	1,254		/ea		/ea		1,353	1,397
DI Blind Flange 12"	15221.405	1.00 ea	33.00 /mh	66	475.00 /ea	475		/ea		/ea		541	570
PS Flange Stand grout	15060.152	5.00 ea	33.00 /mh	83	10.00 /ea	50		/ea		/ea		133	169
DI MEGAFLANGE w/ SS Bolts for DIP 8"	15112.230	3.00 ea	33.00 /mh	297	450.00 /ea	1,350		/ea		/ea		1,647	1,778
Instrument - Flow - Magnetic Flow Meter - 12in	17200.000	1.00 ea	33.00 /mh	264	500.00 /ea	500		/ea		/ea		764	880
DI VIC Coupling 12"	15221.680	2.00 ea	33.00 /mh	132	500.00 /ea	1,000		/ea		/ea		1,132	1,190
NBG Kit 125# Steel 12in SS	15125.010	9.00 ea	33.00 /mh	149	150.00 /ea	1,350		/ea		/ea		1,499	1,564
PS Special floor Support for 12in Steel Pipe - HD galv 1' 7"	15060.475	5.00 ea	33.00 /mh	660	950.00 /ea	4,750		/ea		/ea		5,410	5,700
PS Epoxy for Anchors	15060.112	28.00 ea	33.00 /mh	46	5.00 /ea	140		/ea		/ea		186	207
PS Anchor Bolt 3/4x5 SS	15060.020	28.00 ea	33.00 /mh	46	25.00 /ea	700		/ea		/ea		746	767
PS Pipe unistrut stand for relief valve 2 legs 4' tall	15060.404	1.00 ea	33.00 /mh	99	750.00 /ea	750		/ea		/ea		849	893
PS Epoxy Anchor 5/8 x 5in SS	15060.112	24.00 ea	33.00 /mh	40	25.00 /ea	600		/ea		/ea		640	657
PS Anchor Bolt 5/8x6 SS	15060.020	24.00 ea	33.00 /mh	40	16.00 /ea	384		/ea		/ea		424	441
DI Wall Pipe MJ x PE 24in x 2ft 6in long	15221.320	1.00 ea	33.00 /mh	528	4,000.00 /ea	4,000		/ea		/ea		4,528	4,760
FCA for DIP 12"	15112.090	1.00 ea	33.00 /mh	198	900.00 /ea	900		/ea		/ea		1,098	1,185
DI MJ Compact Solid Sleeve Long 12	2511.322	1.00 ea	33.00 /mh	132	850.00 /ea	850		/ea		/ea		982	1,040
Tap Saddle 12 x 2	2519.424	1.00 ea	33.00 /mh	66	325.00 /ea	325		/ea		/ea		391	420
Valve sewage air relief valve	15110.007	4.00 ea	33.00 /mh	528	1,500.00 /ea	6,000		/ea		/ea		6,528	6,760
Stainless Steel Nipple 2" X 4"	15212.010	2.00 ea	33.00 /mh	22	30.00 /ea	60		/ea		/ea		82	91
Valve Ball Threaded SS 2in	15110.014	4.00 ea	33.00 /mh	186	0.01 /ea	0		/ea		/ea		186	268
PS wall Support for 8in DIP - galv M-133	15060.475	12.00 ea	33.00 /mh	1,584	850.00 /ea	10,200		/ea		/ea		11,784	12,481
PS Pipe Strut Clamp SS 8in	15060.486	9.00 ea	33.00 /mh	149	30.00 /ea	270		/ea		/ea		419	484
Valve Check Flange 125# 8in	15110.040	3.00 ea	33.00 /mh	198	2,300.00 /ea	6,900		/ea		/ea		7,098	7,185
Valve Plug Flange 125# 8in	15110.650	3.00 ea	33.00 /mh	198	2,200.00 /ea	6,600		/ea		/ea		6,798	6,885
PS Pipe Stand for 12in DIP 6ft 0in floor to CL painted	15060.404	1.00 ea	33.00 /mh	132	1,600.00 /ea	1,600		/ea		/ea		1,732	1,790
NBG Kit 125# SS 8in	15125.012	18.00 ea	33.00 /mh	178	140.00 /ea	2,520		/ea		/ea		2,698	2,777
Stainless Steel Nipple 1/2" X 4"	15212.010	3.00 ea	33.00 /mh	25	7.00 /ea	21		/ea		/ea		46	57
Valve Ball Threaded SS 1/2in	15110.014	3.00 ea	33.00 /mh	53	0.01 /ea	0		/ea		/ea		53	77
Stainless Steel Bushing mpt x fpt 1/2in x 3/8in	15212.015	3.00 ea	33.00 /mh	20	3.00 /ea	9		/ea		/ea		29	38
Pressure Gauge gauges on P-11211 P-11211 P-11201	11000.005	3.00 ea	33.00 /mh	396	750.00 /ea	2,250		/ea		/ea		2,646	2,820
150-553 ss piping in process basin overflows and fill lines 11M201													
Stainless Steel Pipe 1" relief valve 11M401	15212.005	20.00 lf	33.00 /mh	132	125.00 /lf	2,500		/lf		/lf		2,632	2,690
Stainless Steel Union 1" relief valve 11M401	15212.060	1.00 ea	33.00 /mh	17	25.00 /ea	25		/ea		/ea		42	49
Stainless Steel 90 Elbow 1" relief valve 11M401	15212.040	6.00 ea	33.00 /mh	99	8.00 /ea	48		/ea		/ea		147	191
Stainless Steel Nipple 1" x 3" relief valve 11M401	15212.010	6.00 ea	33.00 /mh	99	20.00 /ea	120		/ea		/ea		219	263
Stainless Steel Bushing mpt x fpt 2in x 1" in relief valve 11M401	15212.015	1.00 ea	33.00 /mh	17	20.00 /ea	20		/ea		/ea		37	44
Valve Ball Threaded SS 1in relief valve 11M401	15110.014	1.00 ea	33.00 /mh	29	0.01 /ea	0		/ea		/ea		29	41
PS Strut Post Base SS relief valve 11M401	15060.478	4.00 ea	33.00 /mh	40	52.00 /ea	208		/ea		/ea		248	265
PS Pipe Strut Clamp SS 1in	15060.486	6.00 ea	33.00 /mh	59	11.00 /ea	66		/ea		/ea		125	152
Epoxy Anchor 1/2 x 5-in ss 11M401	5001.050	16.00 ea	33.00 /mh	53	15.00 /ea	240		0.00 /ea	0	/ea		293	316
PS Flange Stand grout 1" 11M401	15060.152	4.00 ea	33.00 /mh	132	10.00 /ea	40		/ea		/ea		172	230
FAB Stainless Steel Pipe 316 - 20" FxF 14' 11M201 overflow	15233.505	1.00 ea	33.00 /mh	198	/ea			/ea		/ea		198	285
Fab Stainless Steel 90 316 11M201 overflow	15233.505	1.00 ea	33.00 /mh	198	/ea			/ea		/ea		198	285
Fab Stainless Steel Pipe 316 - 20" - 3' F X PE 11M201 overflow	15233.505	1.00 ea	33.00 /mh	198	/ea			/ea		/ea		198	285
Fab Stainless Steel Pipe 316- 20" - 1' F X F 11M201 overflow	15233.505	1.00 ea	33.00 /mh	198	/ea			/ea		/ea		198	285
Fab Stainless Steel Pipe 316- 20" X24 RED 11M201 overflow	15233.505	1.00 ea	33.00 /mh	198	/ea			/ea		/ea		198	285
Link Seal Size LS-475-C 11M201 overflow	15123.050	52.00 ea	33.00 /mh	257	23.00 /ea	1,196		/ea		/ea		1,453	1,567
seal penetration around link seal 11M201 overflow	15123.050	1.00 ea	33.00 /mh	99	250.00 /ea	250		/ea		/ea		349	393
cast in place sleeve for 20" pipe 11M201 overflow	3150.710	1.00 ea	33.00 /mh	7	2,800.00 /ea	2,800		/ea		/ea		2,807	2,810
wall Support for 20in SS Pipe - plain M133 overflow	15060.475	2.00 ea	33.00 /mh	264	1,100.00 /ea	2,200		/ea		/ea		2,464	2,580
Anchors for wall supports overflow	15060.112	12.00 ea	33.00 /mh	20	5.00 /ea	60		/ea		/ea		80	89
PS Epoxy for Anchors overflow	15060.112	12.00 ea	33.00 /mh	20	25.00 /ea	300		/ea		/ea		320	329
DI Wall Pipe MJ x PE 8in x 2ft 0in long overflow	15221.320	1.00 ea	33.00 /mh	528	850.00 /ea	850		/ea		/ea		1,378	1,610
DI Pipe 8in. dia PEXPE - 5ft. 0in. overflow	15221.070	1.00 ea	33.00 /mh	99	610.00 /ea	610		/ea		/ea		709	753
Valve Check Flange 125# 8in rubber flapper CV-11401 overflow	15110.040	1.00 ea	33.00 /mh	66	0.01 /ea	0		/ea		/ea		66	95
DI MJ Compact Solid Sleeve Long 8 overflow	2511.322	1.00 ea	33.00 /mh	66	495.00 /ea	495		/ea		/ea		561	590
Fab Stainless Steel Pipe 316 - 20" - 1' FT 6" IN PE X PE 11M403 SEC E	15233.505	1.00 ea	33.00 /mh	165	/ea			/ea		/ea		165	238
Fab Stainless Steel Pipe 316 - 20" - 90 PE X PE 11M403 SEC E	15233.505	1.00 ea	33.00 /mh	165	/ea			/ea		/ea		165	238
Fab Stainless Steel Pipe 316 - 20" - 9' PE X FL	15233.505	1.00 ea	33.00 /mh	165	/ea			/ea		/ea		165	238

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
150-553 ss piping in process basin overflows and fill lines 11M201													
Fab Stainless Steel Pipe 316 - 20" -90 FLXFL	15233.505	1.00 ea	33.00 /mh	165	/ea			/ea		/ea		165	238
DI Wall Pipe FLG x MJ 20in x 2ft 0in long	15221.308	1.00 ea	33.00 /mh	528	3,900.00 /ea	3,900		/ea		/ea		4,428	4,660
NBG Kit 125# Steel 20in	15125.010	12.00 ea	33.00 /mh	792	350.00 /ea	4,200		/ea		/ea		4,992	5,340
PS Special WALL Support for 20in DIP - SS	15060.475	2.00 ea	33.00 /mh	264	1,200.00 /ea	2,400		/ea		/ea		2,664	2,780
PS Epoxy for Anchors	15060.112	6.00 ea	33.00 /mh	10	5.00 /ea	30		/ea		/ea		40	44
PS Epoxy for Anchors	15060.112	6.00 ea	33.00 /mh	10	5.00 /ea	30		/ea		/ea		40	44
DI Pipe 20in. dia FxPE - 5ft. 0in.	15221.030	1.00 ea	33.00 /mh	198	2,950.00 /ea	2,950		/ea		/ea		3,148	3,235
DI MJ Compact Solid Sleeve Long 20	2511.322	1.00 ea	33.00 /mh	198	2,350.00 /ea	2,350		/ea		/ea		2,548	2,635
DI MEGAFLANGE w/ SS Bolts for DIP 20"	15112.230	4.00 ea	33.00 /mh	792	3,900.00 /ea	15,600		/ea		/ea		16,392	16,740
20 PBS Process Basin													
24" line from basin													
150-01 1c 12042002 DIP 24" Effluent form Process to MBR 20M205													
DI Pipe 24in. dia FxF - 6ft. 6in.	15221.010	1.00 ea	33.00 /mh	132	5,560.00 /ea	5,560		/ea		/ea		5,692	5,750
DI Pipe 24in. dia FxPE - 2ft. 6in.	15221.070	1.00 ea	33.00 /mh	132	1,300.00 /ea	1,300		/ea		/ea		1,432	1,490
DI Pipe 24in. dia MJxMJ - 18ft. 0in.	15221.050	1.00 ea	33.00 /mh	132	8,180.00 /ea	8,180		/ea		/ea		8,312	8,370
DI Flanged 90 ell 24"	15221.430	1.00 ea	33.00 /mh	132	4,250.00 /ea	4,250		/ea		/ea		4,382	4,440
DI Wall Pipe FLG x PE w/ Collar 24in x 1ft 6in long	15221.336	1.00 ea	33.00 /mh	528	2,800.00 /ea	2,800		/ea		/ea		3,328	3,560
NBG Kit 125# Steel 24in	15125.010	2.00 ea	33.00 /mh	198	550.00 /ea	1,100		/ea		/ea		1,298	1,385
PS Special wall Support for 24in DIP detail -M133	15060.475	3.00 ea	33.00 /mh	594	1,350.00 /ea	4,050		/ea		/ea		4,644	4,905
PS Epoxy Anchor 5/8 x 5in SS	15060.112	12.00 ea	33.00 /mh	20	25.00 /ea	300		/ea		/ea		320	329
PS Epoxy for 5/8" anchor	15060.112	12.00 ea	33.00 /mh	20	5.00 /ea	60		/ea		/ea		80	89
DI MJ Compact Solid Sleeve Long 24	2511.322	1.00 ea	33.00 /mh	198	2,950.00 /ea	2,950		/ea		/ea		3,148	3,235
DI Flanged x Flare 24"	15221.437	1.00 ea	33.00 /mh	132	6,272.00 /ea	6,272		/ea		/ea		6,404	6,462
RAS line RAS line													
02642- Ras line and influent and tank piping 20M203													
Testing Pressure & Leak - Piping	1166.100	3.00 ea	33.00 /mh	792	50.00 /ea	150		50.00 /ea	150	/ea		1,092	1,440
Trench Excavation 6- 8'	2333.010	60.00 lf	33.00 /mh	297	/lf			/lf		/lf		297	428
Trench Backfill 6- 8'	2333.020	60.00 lf	33.00 /mh	396	/lf			/lf		/lf		396	570
Utility Bedding Gravel-Crushed	2305.200	45.00 cy	/cy		25.00 /ton	1,800		/cy		/cy		1,800	1,800
Spoils to Waste	2333.060	45.00 cy	33.00 /mh	149	/cy			/cy		/cy		149	214
DI Pipe MJ - Class 52 18	2511.201	16.00 lf	33.00 /mh	95	95.00 /lf	1,535		/lf		/lf		1,630	1,672
DI Pipe MJ - Class 52 24 J	2511.201	50.00 lf	33.00 /mh	413	135.00 /lf	6,818		/lf		/lf		7,230	7,412
DI MJ Std Wgt 90 24 J	2511.214	2.00 ea	33.00 /mh	396	4,100.00 /ea	8,200		/ea		/ea		8,596	8,770
DI MJ Compact Solid Sleeve Long 18" pipe	2511.322	1.00 ea	33.00 /mh	165	1,850.00 /ea	1,850		/ea		/ea		2,015	2,088
Polybag 12" and Smaller	2333.090	10.00 lf	33.00 /mh	3	1.00 /lf	11		/lf		/lf		14	16
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.03 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	248	3,500.00 /Mnth	95	343	343
John Deere 624 Loader (172 HP) (M)	1900.132	0.03 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	162	3,000.00 /Mnth	81	243	243
Water Truck, 4,000 Gallon (L)	1900.210	0.01 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	67	1,200.00 /Mnth	17	84	84
Mikasa Jumping Jack Compactor (L)	1900.138	0.01 Mnth	/Mnth		/Mnth			200.00 /Mnth	3	100.00 /Mnth	1	4	4
DI MJ Compact Solid Sleeve Long 24 J	2511.322	2.00 ea	33.00 /mh	396	2,950.00 /ea	5,900		/ea		/ea		6,296	6,470
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.01 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	35	500.00 /Mnth	7	42	42
Polybag 24" and smaller	2333.090	50.00 lf	33.00 /mh	17	2.00 /lf	110		/lf		/lf		127	134
DI Wall Pipe FLG x MJ w/ Collar 18in x 2ft 0in long	15221.332	1.00 ea	33.00 /mh	528	3,750.00 /ea	3,750		/ea		/ea		4,278	4,510
DI Pipe MJ - 18"- 5' PE-PE	2511.201	2.00 ea	33.00 /mh	12	2,400.00 /ea	4,848		/ea		/ea		4,860	4,865
Fab Stainless Steel Pipe - 18"15' long - Fx F sch 10- 316 ss	15233.505	2.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
NBG Kit 125# SS 18in w/ isolation kit	15125.012	14.00 ea	33.00 /mh	462	650.00 /ea	9,100		/ea		/ea		9,562	9,765
PS Special wall Support for 18in SS Pipe - 316 copper b line b3067	15060.475	12.00 ea	33.00 /mh	1,584	1,100.00 /ea	13,200		/ea		/ea		14,784	15,481
PS 5/8 X6 concrete anchors	15060.112	36.00 ea	33.00 /mh	59	25.00 /ea	900		/ea		/ea		959	986
PS Epoxy for Anchors	15060.112	36.00 ea	33.00 /mh	59	5.00 /ea	180		/ea		/ea		239	266
DI Floor Pipe MJ x PE w/ Collar 24in x 1ft 6in long J	15221.244	1.00 ea	33.00 /mh	264	3,500.00 /ea	3,500		/ea		/ea		3,764	3,880
DI Floor Pipe MJ x PE w/ Collar 24in x 1ft 6in long J	15221.236	1.00 ea	33.00 /mh	264	2,750.00 /ea	2,750		/ea		/ea		3,014	3,130
Fab Stainless Steel Pipe - 18" - F x PE 6' long	15233.505	2.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Sleeve Stainless with weep ring 24" dia X 12" long	15121.200	3.00 ea	33.00 /mh	792	2,900.00 /ea	8,700		/ea		/ea		9,492	9,840
Link Seal Size LS-410-S	15123.100	150.00 ea	33.00 /mh	743	23.00 /ea	3,450		/ea		/ea		4,193	4,519
DI MJ Compact Solid Sleeve Long 18	2511.322	1.00 ea	33.00 /mh	165	1,850.00 /ea	1,850		/ea		/ea		2,015	2,088
DI Wall Pipe MJ x PE 18in x 1ft 8in long	15221.320	2.00 ea	33.00 /mh	1,056	2,800.00 /ea	5,600		/ea		/ea		6,656	7,121
DI MJ Compact Solid Sleeve Long 18	2511.322	4.00 ea	33.00 /mh	660	1,850.00 /ea	7,400		/ea		/ea		8,060	8,350
DI Wall Pipe MJ x PE 18in x 1ft 8in long	15221.320	2.00 ea	33.00 /mh	1,056	2,800.00 /ea	5,600		/ea		/ea		6,656	7,121
DI Wall Pipe FLG x MJ 18in x 1ft 8in long	15221.308	2.00 ea	33.00 /mh	1,056	3,800.00 /ea	7,600		/ea		/ea		8,656	9,121
DI Pipe 18in. dia PExPE - 5ft. 0in.	15221.070	3.00 ea	33.00 /mh	297	1,600.00 /ea	4,800		/ea		/ea		5,097	5,228
Fab Stainless Steel Pipe - 18" - 15' F x F sch 10 316 ss	15233.505	2.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Fab Stainless Steel Pipe - 18" -4' *F x PE sch 10 316 ss	15233.505	2.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
DI Wall Pipe MJ x PE 18in x 1ft 8in long	15221.320	5.00 ea	33.00 /mh	2,640	2,800.00 /ea	14,000		/ea		/ea		16,640	17,802
Fab Stainless Steel Pipe - 18" - 15' FxF SCH 10 316 ss	15233.505	2.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Fab Stainless Steel Pipe - 18" - 4' FxPE SCH 10 316 ss	15233.505	3.00 ea	33.00 /mh	198	/ea			/ea		/ea		198	285
Fab Stainless Steel Pipe - 18" - 15' F x PE sch 10 316 ss	15233.505	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
DI Pipe 24in. dia PExPE - 2ft. 0in.	15221.070	1.00 ea	33.00 /mh	132	1,050.00 /ea	1,050		/ea		/ea		1,182	1,240
DI Wall Pipe FLG x PE w/ Collar 24in x 1ft 6in long	15221.336	2.00 ea	33.00 /mh	1,056	2,800.00 /ea	5,600		/ea		/ea		6,656	7,121
DI Wall Pipe MJ x PE 24in x 2ft 0in long	15221.304	1.00 ea	33.00 /mh	528	3,800.00 /ea	3,800		/ea		/ea		4,328	4,560
DI Pipe 24in. dia PExPE - 5ft. 0in.	15221.070	1.00 ea	33.00 /mh	132	2,300.00 /ea	2,300		/ea		/ea		2,432	2,490
DI MEGAFLANGE w/ SS Bolts for DIP 24"	15112.230	2.00 ea	33.00 /mh	264	4,800.00 /ea	9,600		/ea		/ea		9,864	9,980
DI MJ Compact Solid Sleeve Long 24 J	2511.322	1.00 ea	33.00 /mh	198	2,950.00 /ea	2,950		/ea		/ea		3,148	3,235
150-01 1c 12042002 dIP from anaerobic and anoxic basin 20M203													
DI Pipe 18in. dia FxPE - 5ft. 0in.	15221.030	2.00 ea	33.00 /mh	198	2,950.00 /ea	5,900		/ea		/ea		6,098	6,185
DI Pipe 18in. dia FxMJ - 2ft. 0in.	15221.020	2.00 ea	33.00 /mh	198	2,800.00 /ea	5,600		/ea		/ea		5,798	5,885
DI Pipe 18in. dia PExPE - 8ft. 0in.	15221.070	1.00 ea	33.00 /mh	99	2,500.00 /ea	2,500		/ea		/ea		2,599	2,643
DI Pipe 18in. dia PExPE - 5ft. 0in.	15221.070	1.00 ea	33.00 /mh	99	1,600.00 /ea	1,600		/ea		/ea		1,699	1,743
DI Pipe 18in. dia PExPE - 8ft. 0in.	15221.070	1.00 ea	33.00 /mh	99	2,500.00 /ea	2,500		/ea		/ea		2,599	2,643
DI Pipe 18in. dia PExPE - 14ft. 0in.	15221.070	1.00 ea	33.00 /mh	99	4,300.00 /ea	4,300		/ea		/ea		4,399	4,443
DI Flanged 90 ell 18"	15221.430	2.00 ea	33.00 /mh	198	2,000.00 /ea	4,000		/ea		/ea		4,198	4,285
DI MJ Compact Solid Sleeve Long 18	2511.322	4.00 ea	33.00 /mh	726	1,850.00 /ea	7,400		/ea		/ea		8,126	8,445

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
150-01 1c 12042002 dIP from anaerobic and anoxic basin 20M203													
DI MJ Compact Solid Sleeve Long 18	2511.322	4.00 ea	33.00 /mh	726	1,850.00 /ea	7,400		/ea		/ea		8,126	8,445
DI Wall Pipe FLG x MJ 18in x 1ft 8in long	15221.308	8.00 ea	33.00 /mh	1,320	3,800.00 /ea	30,400		/ea		/ea		31,720	32,301
drain from basin													
02642- DIP underslab mud valve basin drains 20M205													
Testing Pressure & Leak - Piping	1166.100	3.00 ea	33.00 /mh	792	50.00 /ea	150		50.00 /ea	150	/ea		1,092	1,440
Trench Excavtion 4- 6'	2333.010	60.00 lf	33.00 /mh	198	/lf			/lf		/lf		198	285
Trench Backfill 4- 6'	2333.020	60.00 lf	33.00 /mh	297	/lf			/lf		/lf		297	428
Utility Bedding Gravel-Crushed	2305.200	28.00 cy	/cy		25.00 /ton	1,120		/cy		/cy		1,120	1,120
Spoils to Waste	2333.060	28.00 cy	33.00 /mh	92	/cy			/cy		/cy		92	133
DI Pipe MJ - Class 52 6	2511.201	70.00 lf	33.00 /mh	231	30.00 /lf	2,121		/lf		/lf		2,352	2,454
DI MJ Std Wgt 90 6	2511.214	3.00 ea	33.00 /mh	198	395.00 /ea	1,185		/ea		/ea		1,383	1,470
DI MJ Compact Solid Sleeve Long 6	2511.322	3.00 ea	33.00 /mh	198	395.00 /ea	1,185		/ea		/ea		1,383	1,470
Polybag 12" and Smaller	2333.090	60.00 lf	33.00 /mh	20	1.00 /lf	66		/lf		/lf		86	95
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.03 Mnth	/Mnth		/Mnth		9,200.00 /Mnth		248	3,500.00 /Mnth	95	343	343
John Deere 624 Loader (172 HP) (M)	1900.132	0.03 Mnth	/Mnth		/Mnth		6,000.00 /Mnth		162	3,000.00 /Mnth	81	243	243
Water Truck, 4,000 Gallon (L)	1900.210	0.02 Mnth	/Mnth		/Mnth		4,800.00 /Mnth		72	1,200.00 /Mnth	18	90	90
Mikasa Jumping Jack Compactor (L)	1900.138	0.02 Mnth	/Mnth		/Mnth		200.00 /Mnth		3	100.00 /Mnth	2	5	5
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.02 Mnth	/Mnth		/Mnth		2,500.00 /Mnth		38	500.00 /Mnth	8	45	45
DI Floor Pipe FLG x PE w/ Collar 6in x 1ft 6in long	15221.236	3.00 ea	33.00 /mh	198	500.00 /ea	1,500		/ea		/ea		1,698	1,785
DI Pipe 6in. dia FxPE - 2ft. 0in. with tap holes	15221.010	3.00 ea	33.00 /mh	198	600.00 /ea	1,800		/ea		/ea		1,998	2,085
Valve Mud 6" HV20366 - HV20364 - HV20362	15110.555	3.00 ea	33.00 /mh	1,584	0.01 /ea	0		/ea		/ea		1,584	2,281
effluent box piping													
02642- DIP piping to MBR building from basin 20M205													
Testing Pressure & Leak - Piping	1166.100	1.00 ea	33.00 /mh	264	50.00 /ea	50		50.00 /ea	50	/ea		364	480
Trench Excavtion 8-10'	2333.010	5.00 lf	33.00 /mh	26	/lf			/lf		/lf		26	38
Trench Backfill 8-10'	2333.020	5.00 lf	33.00 /mh	35	/lf			/lf		/lf		35	50
Utility Bedding Gravel-Crushed	2305.200	3.98 cy	/cy		25.00 /ton	159		/cy		/cy		159	159
Spoils to Waste	2333.060	4.63 cy	33.00 /mh	15	/cy			/cy		/cy		15	22
DI Pipe MJ - Class 52 36	2511.201	5.00 lf	33.00 /mh	46	295.00 /lf	1,490		/lf		/lf		1,536	1,556
DI MJ Std Wgt Solid Sleeve Long 36	2511.222	1.00 ea	33.00 /mh	528	8,750.00 /ea	8,750		/ea		/ea		9,278	9,510
Polybag 36" and smaller	2333.090	5.00 lf	33.00 /mh	2	3.50 /lf	19		/lf		/lf		21	22
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.04 Mnth	/Mnth		/Mnth		9,200.00 /Mnth		368	3,500.00 /Mnth	140	508	508
John Deere 624 Loader (172 HP) (M)	1900.132	0.04 Mnth	/Mnth		/Mnth		6,000.00 /Mnth		240	3,000.00 /Mnth	120	360	360
Water Truck, 4,000 Gallon (L)	1900.210	0.04 Mnth	/Mnth		/Mnth		4,800.00 /Mnth		192	1,200.00 /Mnth	48	240	240
Mikasa Jumping Jack Compactor (L)	1900.138	0.04 Mnth	/Mnth		/Mnth		200.00 /Mnth		8	100.00 /Mnth	4	12	12
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.04 Mnth	/Mnth		/Mnth		2,500.00 /Mnth		100	500.00 /Mnth	20	120	120
DI Wall Pipe MJ x PE w/ Tapped Holes 36in x 1ft 6in long	15221.360	1.00 ea	33.00 /mh	792	7,400.00 /ea	7,400		/ea		/ea		8,192	8,540
23 MBR MBR Building													
chemical pipe basin													
150-553 stainless steel Scour air piping 23M204													
Fab Stainless Steel Pipe sch 10 304 ss - 16"-2' PE x PE	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe sch 10 304 ss - 16"x 8" Tee PE x PE	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe sch 10 304 ss - 16"- 8' PE x PE	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe sch 10 304 ss - 16" x 8" Tee PE x PE	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe sch 10 304 ss - 16"- 8' PE x PE	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe sch 10 304 ss - 16"- 8' Tee PE x PE	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe sch 10 304 ss - 16"- 8' PE x PE	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe sch 10 304 ss - 16"- 8' Tee PE x PE	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe sch 10 304 ss - 16"- cap PE	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe - 8"- 90 ell PE x PE	15233.505	4.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Fab Stainless Steel Pipe - 8"- 4' PE x PE	15233.505	4.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Fab Stainless Steel Pipe - 8"- 2' V x PE	15233.505	4.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Fab Stainless Steel Pipe - 8"- vic couplings	15233.505	4.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
PS Flange Stand grout	15060.152	14.00 ea	33.00 /mh	231	10.00 /ea	140		/ea		/ea		371	473
PS Pipe Stand for 16in ss 8ft 6in floor to CL	15060.404	10.00 ea	33.00 /mh	1,320	2,000.00 /ea	20,000		/ea		/ea		21,320	21,901
Epoxy Anchor 5/8 x 5in ss	5001.050	56.00 ea	33.00 /mh	92	15.00 /ea	840	0.00 /ea	0		/ea		932	973
PS Pipe Stand for 8in ss 2ft 11in floor to CL	15060.404	4.00 ea	33.00 /mh	528	1,300.00 /ea	5,200		/ea		/ea		5,728	5,960
NBG Kit 125# SS 16in	15125.012	6.00 ea	33.00 /mh	396	450.00 /ea	2,700		/ea		/ea		3,096	3,270
NBG Kit 125# SS 8in	15125.012	4.00 ea	33.00 /mh	132	140.00 /ea	560		/ea		/ea		692	750
dewatering feed pump													
02642- dewatering feed pump underslab 23M211, 23M210													
Testing Pressure & Leak - Piping	1166.100	2.00 ea	33.00 /mh	528	50.00 /ea	100		50.00 /ea	100	/ea		728	960
Trench Excavtion 0- 4'	2333.010	39.00 lf	33.00 /mh	193	/lf			/lf		/lf		193	278
Trench Backfill 0- 4'	2333.020	39.00 lf	33.00 /mh	322	/lf			/lf		/lf		322	463
Utility Bedding Gravel-Crushed	2305.200	5.69 cy	/cy		25.00 /ton	227		/cy		/cy		227	227
Spoils to Waste	2333.060	5.78 cy	33.00 /mh	19	/cy			/cy		/cy		19	27
DI Pipe MJ - Class 52 4	2511.201	28.00 lf	33.00 /mh	185	42.00 /lf	1,188		/lf		/lf		1,373	1,454
DI Pipe MJ - Class 52 6	2511.201	18.00 lf	33.00 /mh	119	30.00 /lf	545		/lf		/lf		664	716
DI MJ Std Wgt 90 4	2511.214	4.00 ea	33.00 /mh	264	265.00 /ea	1,060		/ea		/ea		1,324	1,440
DI MJ Std Wgt 90 6	2511.214	1.00 ea	33.00 /mh	66	395.00 /ea	395		/ea		/ea		461	490
DI MJ Std Wgt Tee 4	2511.224	1.00 ea	33.00 /mh	66	305.00 /ea	305		/ea		/ea		371	400
DI MJ Compact Solid Sleeve Long 4	2511.322	2.00 ea	33.00 /mh	132	250.00 /ea	500		/ea		/ea		632	690
DI MJ Compact Solid Sleeve Long 6	2511.322	1.00 ea	33.00 /mh	66	395.00 /ea	395		/ea		/ea		461	490
Polybag 12" and Smaller	2333.090	39.00 lf	33.00 /mh	13	1.00 /lf	43		/lf		/lf		56	61
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.06 Mnth	/Mnth		/Mnth		9,200.00 /Mnth		552	3,500.00 /Mnth	210	762	762
John Deere 624 Loader (172 HP) (M)	1900.132	0.06 Mnth	/Mnth		/Mnth		6,000.00 /Mnth		360	3,000.00 /Mnth	180	540	540
Water Truck, 4,000 Gallon (L)	1900.210	0.06 Mnth	/Mnth		/Mnth		4,800.00 /Mnth		288	1,200.00 /Mnth	72	360	360
Mikasa Jumping Jack Compactor (L)	1900.138	0.06 Mnth	/Mnth		/Mnth		200.00 /Mnth		12	100.00 /Mnth	6	18	18
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.06 Mnth	/Mnth		/Mnth		2,500.00 /Mnth		150	500.00 /Mnth	30	180	180
DI Pipe 6in. dia PExPE - 5ft. 0in.	15221.070	4.00 ea	33.00 /mh	264	450.00 /ea	1,800		/ea		/ea		2,064	2,180
FCA for DIP 6"	15112.090	1.00 ea	33.00 /mh	66	350.00 /ea	350		/ea		/ea		416	445

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
02642- dewatering feed pump underslab 23M211, 23M210													
DI Pipe 6in. dia FxPE - 1ft. 0in.	15221.030	1.00 ea	33.00 /mh	33	240.00 /ea	240		/ea		/ea		273	288
DI Pipe 4in. dia PEXPE - 1ft. 0in.	15221.070	1.00 ea	33.00 /mh	33	95.00 /ea	95		/ea		/ea		128	143
DI Pipe 4in. dia PEXPE - 4ft. 0in.	15221.070	2.00 ea	33.00 /mh	132	330.00 /ea	660		/ea		/ea		792	850
DI Pipe 4in. dia PEXPE - 5ft. 0in.	15221.070	2.00 ea	33.00 /mh	132	450.00 /ea	900		/ea		/ea		1,032	1,090
FCA for DIP 4"	15112.090	2.00 ea	33.00 /mh	132	250.00 /ea	500		/ea		/ea		632	690
DI Pipe 4in. dia FxPE - 1ft. 0in.	15221.030	2.00 ea	33.00 /mh	66	210.00 /ea	420		/ea		/ea		486	515
NBG Kit 125# SS 6in	15125.012	2.00 ea	33.00 /mh	33	75.00 /ea	150		/ea		/ea		183	198
NBG Kit 125# SS 4in	15125.012	4.00 ea	33.00 /mh	66	58.00 /ea	232		/ea		/ea		298	327
150-01 1c 12042002 DIP dewatering feed pumps 23M414 EE													
DI Pipe 4in. dia FxF - 1ft. 0in.	15221.010	2.00 ea	33.00 /mh	66	325.00 /ea	650		/ea		/ea		716	745
DI Pipe 4in. dia FxF - 6ft. 6in.	15221.010	1.00 ea	33.00 /mh	99	690.00 /ea	690		/ea		/ea		789	833
DI Pipe 4in. dia FxF - 9ft. 0in.	15221.010	1.00 ea	33.00 /mh	99	875.00 /ea	875		/ea		/ea		974	1,018
DI Pipe 4in. dia FxV - 1ft. 0in.	15221.040	4.00 ea	33.00 /mh	132	260.00 /ea	1,040		/ea		/ea		1,172	1,230
DI Flanged 90 ell 4"	15221.430	1.00 ea	33.00 /mh	33	180.00 /ea	180		/ea		/ea		213	228
DI Flanged Tee 4"	15221.455	2.00 ea	33.00 /mh	99	337.00 /ea	674		/ea		/ea		773	817
DI Flanged Tee 6"	15221.455	1.00 ea	33.00 /mh	66	400.00 /ea	400		/ea		/ea		466	495
DI Flanged Tee 6x3"	15221.455	2.00 ea	33.00 /mh	132	420.00 /ea	840		/ea		/ea		972	1,030
DI Flanged Eccentric Red 6x4"	15221.445	2.00 ea	33.00 /mh	132	250.00 /ea	500		/ea		/ea		632	690
Valve Plug Flange 125# 4 in HV-4111A HV-41101A	15110.650	2.00 ea	33.00 /mh	132	0.01 /ea	0		/ea		/ea		132	190
Expansion Joint Flanged Rubber 4" at pump	15112.050	4.00 ea	33.00 /mh	528	1,250.00 /ea	5,000		/ea		/ea		5,528	5,760
Valve Check Flange 125# 4in CV-41101 CV-41111	15110.040	2.00 ea	33.00 /mh	132	0.01 /ea	0		/ea		/ea		132	190
Valve Plug Flange 125# 4in HV-41101C HV-41111	15110.650	2.00 ea	33.00 /mh	132	0.01 /ea	0		/ea		/ea		132	190
Instrument - Flow - Magnetic Flow Meter - 4in	17200.000	2.00 ea	33.00 /mh	198	500.00 /ea	1,000		/ea		/ea		1,198	1,285
DI VIC Coupling 4"	15221.680	4.00 ea	33.00 /mh	66	125.00 /ea	500		/ea		/ea		566	595
DI Blind Flange 4" w 1" tap	15221.405	1.00 ea	33.00 /mh	33	250.00 /ea	250		/ea		/ea		283	298
Stainless Steel Nipple 1" x 3"	15212.010	2.00 ea	33.00 /mh	17	20.00 /ea	40		/ea		/ea		57	64
Valve Ball Threaded SS 1in HV-41201	15110.014	1.00 ea	33.00 /mh	29	0.01 /ea	0		/ea		/ea		29	41
Valve Air Release 1in MFV-41201	15110.005	1.00 ea	33.00 /mh	29	0.01 /ea	0		/ea		/ea		29	41
PVC Sch-80 Pipe 2 Bell End	2336.010	30.00 lf	33.00 /mh	158	6.00 /lf	180		/lf		/lf		338	408
PVC Sch 80 90 ell 2 SOC	2336.020	8.00 ea	33.00 /mh	32	8.00 /ea	64		/ea		/ea		96	110
PVC Sch 80/VIT UNION 2" S	15211.122	1.00 ea	33.00 /mh	7	8.00 /ea	8		/ea		/ea		15	18
PS Strut SS 1-5/8 x 1-5/8	15060.476	6.00 lf	33.00 /mh	59	20.00 /lf	120		/lf		/lf		179	206
PS Pipe Strut Clamp SS 1in	15060.486	6.00 ea	33.00 /mh	59	11.00 /ea	66		/ea		/ea		125	152
Epoxy Anchor 3/8 x 5in SS 316	5001.054	12.00 ea	33.00 /mh	20	8.00 /ea	96		/ea		/ea		116	125
PS Special Support for 6in Steel Pipe - painted	15060.475	2.00 ea	33.00 /mh	396	850.00 /ea	1,700		/ea		/ea		2,096	2,270
PS Expansion Anchor 5/8 x 6in SS	15060.127	8.00 ea	33.00 /mh	13	25.00 /ea	200		/ea		/ea		213	219
PS Flange Stand grout	15060.152	2.00 ea	33.00 /mh	33	10.00 /ea	20		/ea		/ea		53	68
Sleeve w/Ring SS 4" x 12"	15121.250	1.00 ea	33.00 /mh	66	550.00 /ea	550		/ea		/ea		616	645
Sleeve w/Ring SS 6" x 12"	15121.250	1.00 ea	33.00 /mh	66	550.00 /ea	550		/ea		/ea		616	645
Instrument - Pressure - Gauge	17400.000	2.00 ea	33.00 /mh	264	500.00 /ea	1,000		/ea		/ea		1,264	1,380
Instrument - Pressure - Gauge preessur sensor 360 wafer 94M903 M127	17400.000	2.00 ea	33.00 /mh	264	500.00 /ea	1,000		/ea		/ea		1,264	1,380
Valve Ball Threaded SS 1/2in	15110.014	2.00 ea	33.00 /mh	36	0.01 /ea	0		/ea		/ea		36	51
Stainless Steel Nipple 1/2" X 2"	15212.010	4.00 ea	33.00 /mh	33	7.00 /ea	28		/ea		/ea		61	76
Stainless Steel Bushing mpt x fpt 1/2in x 3/8in	15212.015	2.00 ea	33.00 /mh	13	3.00 /ea	6		/ea		/ea		19	25
DI MEGAFLANGE w/ SS Bolts for DIP 4"	15112.230	8.00 ea	33.00 /mh	528	250.00 /ea	2,000		/ea		/ea		2,528	2,760
DI VIC Coupling 4"	15221.680	4.00 ea	33.00 /mh	66	125.00 /ea	500		/ea		/ea		566	595
mbr basin ras/was													
150-01 1c 12042002 DIP mbr basin RAS/WAS lines at manifolds and pumps 23M205													
DI Pipe 24in. dia FxF - 1ft. 0in.	15221.010	1.00 ea	33.00 /mh	99	2,800.00 /ea	2,800		/ea		/ea		2,899	2,943
DI Pipe 14in. dia FxF - 15ft. 0in.	15221.010	3.00 ea	33.00 /mh	792	4,800.00 /ea	14,400		/ea		/ea		15,192	15,540
DI Pipe 6in. dia FxF - 2ft. 0in.	15221.010	2.00 ea	33.00 /mh	132	480.00 /ea	960		/ea		/ea		1,092	1,150
DI Pipe 24in. dia FxF - 2ft. 0in.	15221.010	1.00 ea	33.00 /mh	132	3,350.00 /ea	3,350		/ea		/ea		3,482	3,540
DI Pipe 6in. dia FxF - 15ft. 0in.	15221.010	2.00 ea	33.00 /mh	264	1,525.00 /ea	3,050		/ea		/ea		3,314	3,430
DI Pipe 24in. dia FxF - 2ft. 6in.	15221.010	2.00 ea	33.00 /mh	264	3,430.00 /ea	6,860		/ea		/ea		7,124	7,240
DI Pipe 24in. dia FxF - 3ft. 6in.	15221.010	1.00 ea	33.00 /mh	132	4,200.00 /ea	4,200		/ea		/ea		4,332	4,390
DI Pipe 24in. dia FxV - 2ft. 0in.	15221.040	1.00 ea	33.00 /mh	132	2,750.00 /ea	2,750		/ea		/ea		2,882	2,940
DI Pipe 14in. dia FxV - 1ft. 0in. w/ 1/2 tap	15221.040	3.00 ea	33.00 /mh	248	1,450.00 /ea	4,350		/ea		/ea		4,598	4,706
DI Pipe 6in. dia FxPE - 1ft. 0in.	15221.030	1.00 ea	33.00 /mh	66	240.00 /ea	240		/ea		/ea		306	335
DI Pipe 24in. dia PEXPE - 5ft. 0in.	15221.070	1.00 ea	33.00 /mh	132	2,300.00 /ea	2,300		/ea		/ea		2,432	2,490
DI Pipe 24in. dia PEXPE - 10ft. 0in.	15221.070	1.00 ea	33.00 /mh	198	4,500.00 /ea	4,500		/ea		/ea		4,698	4,785
DI Pipe 6in. dia FxV - 1ft. 0in.	15221.040	3.00 ea	33.00 /mh	99	310.00 /ea	930		/ea		/ea		1,029	1,073
DI Pipe 6in. dia FxV - 2ft. 0in.	15221.040	1.00 ea	33.00 /mh	33	400.00 /ea	400		/ea		/ea		433	448
DI Pipe 6in. dia PEXPE - 8ft. 0in.	15221.070	1.00 ea	33.00 /mh	33	685.00 /ea	685		/ea		/ea		718	733
DI Flanged 90 ell 24"	15221.430	3.00 ea	33.00 /mh	396	4,250.00 /ea	12,750		/ea		/ea		13,146	13,320
DI Pipe 6in. dia PEXPE - 16ft. 0in.	15221.070	1.00 ea	33.00 /mh	132	1,350.00 /ea	1,350		/ea		/ea		1,482	1,540
DI Flanged Tee 24"	15221.455	1.00 ea	33.00 /mh	198	5,700.00 /ea	5,700		/ea		/ea		5,898	5,985
DI Flanged Tee 24x14"	15221.455	3.00 ea	33.00 /mh	594	4,800.00 /ea	14,400		/ea		/ea		14,994	15,255
DI Flanged 90 ell 6"	15221.430	1.00 ea	33.00 /mh	33	280.00 /ea	280		/ea		/ea		313	328
DI Flanged Tee 6"	15221.455	3.00 ea	33.00 /mh	149	400.00 /ea	1,200		/ea		/ea		1,349	1,414
Valve Check Flange 125# 6in CV-21311 & CV-21321	15110.040	2.00 ea	33.00 /mh	66	0.01 /ea	0		/ea		/ea		66	95
FCA for DIP 24"	15112.090	1.00 ea	33.00 /mh	264	4,750.00 /ea	4,750		/ea		/ea		5,014	5,130
DI MEGAFLANGE w/ SS Bolts for DIP 24"	15112.230	6.00 ea	33.00 /mh	1,188	4,800.00 /ea	28,800		/ea		/ea		29,988	30,511
DI Wall Pipe FLG x PE w/ Tapped Holes 24in x 3ft 0in long	15221.360	1.00 ea	33.00 /mh	528	4,000.00 /ea	4,000		/ea		/ea		4,528	4,760
NBG Kit 125# Steel 24in	15125.010	13.00 ea	33.00 /mh	858	550.00 /ea	7,150		/ea		/ea		8,008	8,386
DI Blind Flange 24" w/ tap 4" tap for MFV-21241	15221.405	1.00 ea	33.00 /mh	132	2,250.00 /ea	2,250		/ea		/ea		2,382	2,440
Instrument - Flow - Magnetic Flow Meter - 24in grooved	17200.000	1.00 ea	33.00 /mh	264	500.00 /ea	500		/ea		/ea		764	880
DI VIC Coupling 24"	15221.680	4.00 ea	33.00 /mh	528	1,080.00 /ea	4,320		/ea		/ea		4,848	5,080
DI Blind Flange 24" w 3/4 tap to injection	15221.405	1.00 ea	33.00 /mh	132	2,250.00 /ea	2,250		/ea		/ea		2,382	2,440
DI MJ Compact Solid Sleeve Long 24	2511.322	1.00 ea	33.00 /mh	198	2,950.00 /ea	2,950		/ea		/ea		3,148	3,235
DI MEGAFLANGE w/ SS Bolts for DIP 6"	15112.230	6.00 ea	33.00 /mh	446	350.00 /ea	2,100		/ea		/ea		2,546	2,742
sewage air valve 4in MFV-21241	15110.007	1.00 ea	33.00 /mh	132	0.01 /ea	0		/ea		/ea		132	190
Stainless Steel Nipple 4" X 5" for air valve	15212.010	1.00 ea	33.00 /mh	17	90.00 /ea	90		/ea		/ea		107	114</

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
150-01 1c 12042002 DIP mbr basin RAS/WAS lines at manifolds and pumps 23M205													
pipe support 2' HDG 24"	15060.475	6.00 ea	33.00 /mh	792	1,350.00 /ea	8,100		/ea		/ea		8,892	9,240
pipe support 2'6" HDG 14" offset	15060.475	9.00 ea	33.00 /mh	1,188	1,750.00 /ea	15,750		/ea		/ea		16,938	17,461
Valve Plug Flange 125# 14in HV-21211A	15110.650	1.00 ea	33.00 /mh	132	0.01 /ea	0		/ea		/ea		132	190
Valve Check Flange 125# 14in CV-21221	15110.040	1.00 ea	33.00 /mh	132	0.01 /ea	0		/ea		/ea		132	190
Valve Check Flange 125# 14in CV-21231	15110.040	1.00 ea	33.00 /mh	132	0.01 /ea	0		/ea		/ea		132	190
Valve Plug Flange 125# 4in HV-21221A	15110.650	1.00 ea	33.00 /mh	33	0.01 /ea	0		/ea		/ea		33	48
Valve Plug Flange 125# 4in HV-21231A	15110.650	1.00 ea	33.00 /mh	33	0.01 /ea	0		/ea		/ea		33	48
Instrument - Pressure - Transmitter 23M205	17400.000	5.00 ea	33.00 /mh	330	500.00 /ea	2,500		/ea		/ea		2,830	2,975
Stainless Steel Nipple 1/2" X 2"	15212.010	6.00 ea	33.00 /mh	50	7.00 /ea	42		/ea		/ea		92	113
Valve Ball Threaded SS 1/2in	15110.014	3.00 ea	33.00 /mh	53	0.01 /ea	0		/ea		/ea		53	77
NBG Kit 125# Steel 14in	15125.010	27.00 ea	33.00 /mh	1,337	150.00 /ea	4,050		/ea		/ea		5,387	5,975
DI VIC Flange Adapter 14"	15221.685	3.00 ea	33.00 /mh	198	1,400.00 /ea	4,200		/ea		/ea		4,398	4,485
DI Flanged 90 ell 14"	15221.430	3.00 ea	33.00 /mh	248	1,300.00 /ea	3,900		/ea		/ea		4,148	4,256
DI MJ Compact Solid Sleeve Long 6	2511.322	1.00 ea	33.00 /mh	33	395.00 /ea	395		/ea		/ea		428	443
DI MJ Std Wgt 90 6	2511.214	1.00 ea	33.00 /mh	33	395.00 /ea	395		/ea		/ea		428	443
NBG Kit 125# Steel 6in	15125.010	25.00 ea	33.00 /mh	413	30.00 /ea	750		/ea		/ea		1,163	1,344
DI Flanged 90 ell 6"	15221.430	3.00 ea	33.00 /mh	99	280.00 /ea	840		/ea		/ea		939	983
DI VIC Coupling 14"	15221.680	6.00 ea	33.00 /mh	297	550.00 /ea	3,300		/ea		/ea		3,597	3,728
Instrument - Flow - Magnetic Flow Meter - 6in	17200.000	1.00 ea	33.00 /mh	66	500.00 /ea	500		/ea		/ea		566	595
Valve Plug Flange 125# 6in HV-21321	15110.650	1.00 ea	33.00 /mh	66	0.01 /ea	0		/ea		/ea		66	95
Valve Plug Flange 125# 6in HV-21311	15110.650	1.00 ea	33.00 /mh	66	0.01 /ea	0		/ea		/ea		66	95
DI VIC Coupling 6"	15221.680	2.00 ea	33.00 /mh	33	180.00 /ea	360		/ea		/ea		393	408
DI Blind Flange 6" w/ 2" tap	15221.405	2.00 ea	33.00 /mh	66	250.00 /ea	500		/ea		/ea		566	595
Stainless Steel Nipple 2" X 4"	15212.010	4.00 ea	33.00 /mh	44	30.00 /ea	120		/ea		/ea		164	183
Valve Ball Threaded SS 2in	15110.014	2.00 ea	33.00 /mh	93	0.01 /ea	0		/ea		/ea		93	134
Valve Air/Vac Combo 2in MFV-21311	15110.007	1.00 ea	33.00 /mh	47	0.01 /ea	0		/ea		/ea		47	67
Valve Air/Vac Combo 2in mfv 21321	15110.007	1.00 ea	33.00 /mh	47	0.01 /ea	0		/ea		/ea		47	67
DI Flanged Ecc Red 6x3"	15221.450	2.00 ea	33.00 /mh	66	210.00 /ea	420		/ea		/ea		486	515
DI Flanged 90 ell 3"	15221.430	2.00 ea	33.00 /mh	66	125.00 /ea	250		/ea		/ea		316	345
NBG Kit 125# Steel 3in	15125.010	4.00 ea	33.00 /mh	40	20.00 /ea	80		/ea		/ea		120	137
PS Special wall Support for 6in DIP - offset Pipe	15060.475	4.00 ea	33.00 /mh	528	850.00 /ea	3,400		/ea		/ea		3,928	4,160
PS Epoxy Anchor 5/8 x 5in SS	15060.112	12.00 ea	33.00 /mh	20	25.00 /ea	300		/ea		/ea		320	329
PS Epoxy Anchor 5/8 x 5in SS	15060.112	20.00 ea	33.00 /mh	33	25.00 /ea	500		/ea		/ea		533	548
PS Flange Stand for 3in DIP 3ft 6in floor to centerline painted	15060.152	4.00 ea	33.00 /mh	132	1,350.00 /ea	5,400		/ea		/ea		5,532	5,590
PS Epoxy Anchor 5/8 x 5in SS	15060.112	20.00 ea	33.00 /mh	33	25.00 /ea	500		/ea		/ea		533	548
Stainless Steel Nipple 2" X 3"	15212.010	9.00 ea	33.00 /mh	98	30.00 /ea	270		/ea		/ea		368	411
Stainless Steel Union 2"	15212.060	3.00 ea	33.00 /mh	20	250.00 /ea	750		/ea		/ea		770	779
Stainless Steel 90 Elbow 2"	15212.040	12.00 ea	33.00 /mh	79	23.00 /ea	276		/ea		/ea		355	390
PS Pipe Strut Clamp SS 2in	15060.486	9.00 ea	33.00 /mh	89	13.00 /ea	117		/ea		/ea		206	245
Set Mech. Pipe Sleeves 6" DI pipe	3150.710	1.00 ea	33.00 /mh	33	450.00 /ea	450		/ea		/ea		483	498
Set Mech. Pipe Sleeves 24" DI pipe	3150.710	1.00 ea	33.00 /mh	132	2,900.00 /ea	2,900		/ea		/ea		3,032	3,090
Valve Ball Flange SS 4in	15110.010	1.00 ea	33.00 /mh	50	0.01 /ea	0		/ea		/ea		50	71
PVC Sch 80 PIPE 3/4" PE	15211.203	40.00 lf	33.00 /mh	277	1.20 /lf	48		/lf		/lf		325	447
PVC Sch 80 90 EL 3/4" S	15211.207	12.00 ea	33.00 /mh	83	2.50 /ea	30		/ea		/ea		113	150
PVC Sch 80 flex connection to injection quill	2336.120	1.00 ea	33.00 /mh	9	350.00 /ea	350		/ea		/ea		359	363
PVC Sch 80 MALE ADPT 3/4" SXMT	15211.217	2.00 ea	33.00 /mh	14	4.00 /ea	8		/ea		/ea		22	28
Valve Ball Threaded SS 3/4in HV-533111	15110.014	1.00 ea	33.00 /mh	24	0.01 /ea	0		/ea		/ea		24	34
PS Special floor Support for 3/4 in Sch 80 PVC - ss stand	15060.475	1.00 ea	33.00 /mh	33	600.00 /ea	600		/ea		/ea		633	648
PS Strut FRP 1-5/8 x 1-5/8 for chem line from alkalinity	15060.476	8.00 ea	33.00 /mh	132	8.00 /ea	64		/ea		/ea		196	254
HDPE pipe fusion 4" double wall containment for alkalinity line	2631.201	20.00 lf	33.00 /mh	198	20.00 /lf	420		/lf		/lf		618	705
HDPE pipe fusion 4" long turn ell double wall for alkalinity line	2631.201	1.00 ea	33.00 /mh	132	225.00 /ea	236		/ea		/ea		368	426
chemical tubing for Alkalinity line	2336.010	20.00 lf	33.00 /mh	165	14.00 /lf	280		/lf		/lf		445	518
Stainless Steel Pipe 2" off air vac	15212.005	20.00 lf	33.00 /mh	132	25.00 /lf	500		/lf		/lf		632	690
Stainless Steel 90 Elbow 2" off air vac	15212.040	4.00 ea	33.00 /mh	26	23.00 /ea	92		/ea		/ea		118	130
Stainless Steel Union 2" off air vac	15212.060	1.00 ea	33.00 /mh	7	250.00 /ea	250		/ea		/ea		257	260
Stainless Steel Nipple 2" X 3" off air vac	15212.010	2.00 ea	33.00 /mh	22	30.00 /ea	60		/ea		/ea		82	91
DI Wall Pipe FLG x FLG 6in x 2ft 0in long	15221.304	1.00 ea	33.00 /mh	132	650.00 /ea	650		/ea		/ea		782	840
DI VIC Coupling 14"	15221.680	3.00 ea	33.00 /mh	149	550.00 /ea	1,650		/ea		/ea		1,799	1,864
DI VIC Coupling 24"	15221.680	2.00 ea	33.00 /mh	264	1,080.00 /ea	2,160		/ea		/ea		2,424	2,540
DI VIC Coupling 6"	15221.680	6.00 ea	33.00 /mh	99	180.00 /ea	1,080		/ea		/ea		1,179	1,223
Valve Air Release 2in MFV-21231, MFV-21221, MFV21211	15110.005	3.00 ea	33.00 /mh	396	0.01 /ea	0		/ea		/ea		396	570
Stainless Steel Nipple 2" X 3"	15212.010	6.00 ea	33.00 /mh	65	30.00 /ea	180		/ea		/ea		245	274
Valve Ball SW SS 2in	15110.012	3.00 ea	33.00 /mh	99	450.00 /ea	1,350		/ea		/ea		1,449	1,493
PVC Sch 40 Pipe 2" PE	15211.103	60.00 lf	33.00 /mh	416	2.10 /lf	139		/lf		/lf		554	737
PVC Sch 80 90 EL 2" S	15211.207	12.00 ea	33.00 /mh	83	6.00 /ea	72		/ea		/ea		155	192
PVC Sch 80/VIT UNION 2" S	15211.219	3.00 ea	33.00 /mh	21	27.00 /ea	81		/ea		/ea		102	111
PS Strut SS 1-5/8 x 1-5/8	15060.476	15.00 lf	33.00 /mh	149	20.00 /lf	300		/lf		/lf		449	514
PS Anchor Bolt 3/8x6 SS	15060.020	30.00 ea	33.00 /mh	50	9.00 /ea	270		/ea		/ea		320	341
PS Pipe Strut Clamp SS 2in	15060.486	15.00 ea	33.00 /mh	149	13.00 /ea	195		/ea		/ea		344	409
DI MJ Compact Tee 14	2511.324	3.00 ea	33.00 /mh	297	1,944.00 /ea	5,832		/ea		/ea		6,129	6,260
DI Blind Flange 14" with tap	15221.405	3.00 ea	33.00 /mh	198	820.00 /ea	2,460		/ea		/ea		2,658	2,745
DI MJ Std Wgt Red 14x6	2511.220	3.00 ea	33.00 /mh	198	2,100.00 /ea	6,300		/ea		/ea		6,498	6,585
PS Pipe Support 6" Pipe Stand 2'6"	15060.475	3.00 ea	33.00 /mh	396	850.00 /ea	2,550		/ea		/ea		2,946	3,120
permeate tank dis													
02642- DIP for chem tank and NPW skid 23M207													
Testing Pressure & Leak - Piping	1166.100	2.00 ea	33.00 /mh	528	50.00 /ea	100		50.00 /ea	100	/ea		728	960
Trench Excavtion 6- 8'	2333.010	10.00 lf	33.00 /mh	66	/lf			/lf		/lf		66	95
Trench Excavtion 8-10'	2333.010	20.00 lf	33.00 /mh	132	/lf			/lf		/lf		132	190
Trench Backfill 6- 8'	2333.020	10.00 lf	33.00 /mh	83	/lf			/lf		/lf		83	119
Trench Backfill 8-10'	2333.020	20.00 lf	33.00 /mh	165	/lf			/lf		/lf		165	238
Utility Bedding Gravel-Crushed	2305.200	27.09 cy	/cy		25.00 /ton	1,083		/cy		/cy		1,083	1,083
Spoils to Waste	2333.060	27.78 cy	33.00 /mh	92	/cy			/cy		/cy		92	132

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
02642- DIP for chem tank and NPW skid 23M207													
DI Pipe MJ - Class 52 6	2511.201	10.00 lf	33.00 /mh	66	30.00 /lf	303		/lf		/lf		369	398
DI Pipe MJ - Class 52 18	2511.201	20.00 lf	33.00 /mh	330	95.00 /lf	1,919		/lf		/lf		2,249	2,394
DI MJ Std Wgt 90 6	2511.214	1.00 ea	33.00 /mh	33	395.00 /ea	395		/ea		/ea		428	443
DI MJ Std Wgt 90 18	2511.214	1.00 ea	33.00 /mh	132	2,250.00 /ea	2,250		/ea		/ea		2,382	2,440
DI MJ Compact Solid Sleeve Long 6	2511.322	1.00 ea	33.00 /mh	33	395.00 /ea	395		/ea		/ea		428	443
DI MJ Compact Solid Sleeve Long 18	2511.322	1.00 ea	33.00 /mh	132	1,850.00 /ea	1,850		/ea		/ea		1,982	2,040
Polybag 12" and Smaller	2333.090	30.00 lf	33.00 /mh	10	1.00 /lf	33		/lf		/lf		43	47
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.04 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	368	3,500.00 /Mnth	140	508	508
John Deere 624 Loader (172 HP) (M)	1900.132	0.04 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	240	3,000.00 /Mnth	120	360	360
Water Truck, 4,000 Gallon (L)	1900.210	0.04 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	192	1,200.00 /Mnth	48	240	240
Mikasa Jumping Jack Compactor (L)	1900.138	0.04 Mnth	/Mnth		/Mnth			200.00 /Mnth	8	100.00 /Mnth	4	12	12
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.04 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	100	500.00 /Mnth	20	120	120
FCA for DIP 18"	15112.090	1.00 ea	33.00 /mh	198	3,450.00 /ea	3,450		/ea		/ea		3,648	3,735
FCA for DIP 6"	15112.090	1.00 ea	33.00 /mh	99	350.00 /ea	350		/ea		/ea		449	493
DI Pipe 6in. dia MJxPE - 1ft. 0in. to npw skid	15221.060	1.00 ea	33.00 /mh	66	650.00 /ea	650		/ea		/ea		716	745
DI Pipe 6in. dia PEXPE - 3ft. 6in. to npw skid	15221.070	1.00 ea	33.00 /mh	66	375.00 /ea	375		/ea		/ea		441	470
DI Pipe 18in. dia PEXPE - 5ft. 0in. to npw skid	15221.070	1.00 ea	33.00 /mh	132	1,600.00 /ea	1,600		/ea		/ea		1,732	1,790
uv disinfection													
150-01 1c 12042002 Dip manifolds and headers at UV Disinfection 23M207, 23M208													
DI Pipe 6in. dia FxF - 2ft. 0in.	15221.010	1.00 ea	33.00 /mh	33	480.00 /ea	480		/ea		/ea		513	528
DI Pipe 8in. dia FxF - 4ft. 0in.	15221.010	2.00 ea	33.00 /mh	132	910.00 /ea	1,820		/ea		/ea		1,952	2,010
DI Pipe 12in. dia FxF - 1ft. 0in.	15221.010	6.00 ea	33.00 /mh	396	980.00 /ea	5,880		/ea		/ea		6,276	6,450
DI Pipe 12in. dia FxF - 1ft. 6in.	15221.010	2.00 ea	33.00 /mh	132	1,100.00 /ea	2,200		/ea		/ea		2,332	2,390
DI Pipe 12in. dia FxF - 2ft. 0in.	15221.010	2.00 ea	33.00 /mh	132	1,200.00 /ea	2,400		/ea		/ea		2,532	2,590
DI Pipe 14in. dia FxF - 1ft. 0in.	15221.010	1.00 ea	33.00 /mh	83	1,480.00 /ea	1,480		/ea		/ea		1,563	1,599
DI Pipe 14in. dia FxF - 15ft. 0in.	15221.010	1.00 ea	33.00 /mh	165	4,800.00 /ea	4,800		/ea		/ea		4,965	5,038
DI Pipe 6in. dia FxPE - 1ft. 0in.	15221.030	1.00 ea	33.00 /mh	33	240.00 /ea	240		/ea		/ea		273	288
DI Pipe 6in. dia FxV - 1ft. 0in.	15221.040	1.00 ea	33.00 /mh	33	310.00 /ea	310		/ea		/ea		343	358
DI Flanged 90 ell 8"	15221.430	2.00 ea	33.00 /mh	132	450.00 /ea	900		/ea		/ea		1,032	1,090
DI Flanged 90 ell 12"	15221.430	4.00 ea	33.00 /mh	264	900.00 /ea	3,600		/ea		/ea		3,864	3,980
DI Flanged Tee 6"	15221.455	1.00 ea	33.00 /mh	50	400.00 /ea	400		/ea		/ea		450	471
DI Flanged Tee 14"	15221.455	2.00 ea	33.00 /mh	198	2,200.00 /ea	4,400		/ea		/ea		4,598	4,685
DI Flanged Con Red 8x6"	15221.445	1.00 ea	33.00 /mh	66	350.00 /ea	350		/ea		/ea		416	445
DI Flanged Con Red 14x6"	15221.445	2.00 ea	33.00 /mh	165	800.00 /ea	1,600		/ea		/ea		1,765	1,838
DI Flanged Con Red 14x12"	15221.445	2.00 ea	33.00 /mh	165	900.00 /ea	1,800		/ea		/ea		1,965	2,038
Valve Butterfly Lugged 125# 8in Hv-23381B	15110.026	1.00 ea	33.00 /mh	66	0.01 /ea	0		/ea		/ea		66	95
Valve Butterfly Lugged 125# 12in HV-30111B, HV-3012B	15110.026	2.00 ea	33.00 /mh	198	0.01 /ea	0		/ea		/ea		198	285
Valve Butterfly Wafer 125# 12in HV-30111A, HV-3012A	15110.034	2.00 ea	33.00 /mh	198	0.01 /ea	0		/ea		/ea		198	285
NBG Kit 125# HDG 12in	15125.014	14.00 ea	33.00 /mh	693	60.00 /ea	840		/ea		/ea		1,533	1,838
NBG Kit 125# HDG 14in	15125.014	8.00 ea	33.00 /mh	528	75.00 /ea	600		/ea		/ea		1,128	1,360
FCA for DIP 6"	15112.090	1.00 ea	33.00 /mh	99	350.00 /ea	350		/ea		/ea		449	493
DI MEGAFLANGE w/ SS Bolts for DIP 12"	15112.230	6.00 ea	33.00 /mh	396	900.00 /ea	5,400		/ea		/ea		5,796	5,970
DI MEGAFLANGE w/ SS Bolts for DIP 14"	15112.230	6.00 ea	33.00 /mh	594	1,400.00 /ea	8,400		/ea		/ea		8,994	9,255
DI MEGAFLANGE w/ SS Bolts for DIP 6"	15112.230	4.00 ea	33.00 /mh	264	350.00 /ea	1,400		/ea		/ea		1,664	1,780
DI Blind Flange 6" w/ 3" tap	15221.405	1.00 ea	33.00 /mh	33	250.00 /ea	250		/ea		/ea		283	298
PS Pipe Stand grout	15060.404	12.00 ea	33.00 /mh	198	10.00 /ea	120		/ea		/ea		318	405
Instrument - Flow - Magnetic Flow Meter - 12in	17200.000	2.00 ea	33.00 /mh	264	500.00 /ea	1,000		/ea		/ea		1,264	1,380
NBG Kit 125# HDG 12in	15125.010	14.00 ea	33.00 /mh	693	150.00 /ea	2,100		/ea		/ea		2,793	3,098
NBG Kit 125# HDG 14in	15125.010	4.00 ea	33.00 /mh	264	150.00 /ea	600		/ea		/ea		864	980
Expansion Joint Restrained rubber by vender 14" 23M408 sec o	15112.080	1.00 ea	33.00 /mh	198	3,880.00 /ea	3,880		/ea		/ea		4,078	4,165
PVCSched 80 18" PE permeate tank 23M408	15211.203	20.00 lf	33.00 /mh	660	160.00 /lf	3,200		/lf		/lf		3,860	4,150
PVC Sch 80 90 EL 18" socket permeate tank 23M408	15211.207	1.00 ea	33.00 /mh	132	2,500.00 /ea	2,500		/ea		/ea		2,632	2,690
PVC Sch 80 Flange 18" permeate tank 23M408	15211.222	2.00 ea	33.00 /mh	264	1,500.00 /ea	3,000		/ea		/ea		3,264	3,380
NBG Kit 125# Steel 18in permeate tank 23M408	15125.010	2.00 ea	33.00 /mh	132	250.00 /ea	500		/ea		/ea		632	690
Expansion Joint Flanged Rubber 14" by vender permeate tank 23M408	15112.050	1.00 ea	33.00 /mh	198	0.01 /ea	0		/ea		/ea		198	285
PS Special Support for 14in Steel Pipe - plain	15060.475	6.00 ea	33.00 /mh	792	950.00 /ea	5,700		/ea		/ea		6,492	6,840
PS Pipe Stand for 14in DIP 5ft 6in floor to CL HDG	15060.406	5.00 ea	33.00 /mh	660	1,800.00 /ea	9,000		/ea		/ea		9,660	9,950
PS Pipe Stand for 14in DIP 11ft 0in floor to CL HDG	15060.406	1.00 ea	33.00 /mh	132	2,250.00 /ea	2,250		/ea		/ea		2,382	2,440
PS Anchor Bolt 3/4x6 SS	15060.020	66.00 ea	33.00 /mh	109	30.00 /ea	1,980		/ea		/ea		2,089	2,137
4" FPTxFemale Quick Disconnect ss w/ cap	15112.280	5.00 ea	33.00 /mh	83	375.00 /ea	1,875		/ea		/ea		1,958	1,994
Stainless Steel Nipple 4" X 5"	15212.010	1.00 ea	33.00 /mh	17	90.00 /ea	90		/ea		/ea		107	114
Valve Butterfly Lugged 125# 4in	15110.026	1.00 ea	33.00 /mh	33	450.00 /ea	450		/ea		/ea		483	498
NBG Kit 125# SS 4in	15125.012	2.00 ea	33.00 /mh	33	58.00 /ea	116		/ea		/ea		149	164
Expansion Joint Flanged Rubber 8" by vender permeate tank outlet	15112.050	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Expansion Joint Flanged Rubber 8" by vender permeate tank outlet	15112.050	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Instrument - Flow - Magnetic Flow Meter - 6in	17200.000	1.00 ea	33.00 /mh	132	500.00 /ea	500		/ea		/ea		632	690
40 SLD Aerated Sludge Holding Tank													
arated sludge drain													
02642- WAS to dewatering drain from tank 40M401													
Testing Pressure & Leak - Piping	1166.100	1.00 ea	33.00 /mh	264	50.00 /ea	50		50.00 /ea	50	/ea		364	480
DI Pipe MJ - Class 52 6	2511.201	40.00 lf	33.00 /mh	132	30.00 /lf	1,212		/lf		/lf		1,344	1,402
DI MJ Std Wgt 90 6	2511.214	1.00 ea	33.00 /mh	33	395.00 /ea	395		/ea		/ea		428	443
DI MJ Std Wgt Tee 6	2511.224	1.00 ea	33.00 /mh	33	520.00 /ea	520		/ea		/ea		553	568
DI MJ Compact Solid Sleeve Long 6	2511.322	1.00 ea	33.00 /mh	33	395.00 /ea	395		/ea		/ea		428	443
Polybag 12" and Smaller	2333.090	40.00 lf	33.00 /mh	13	1.00 /lf	44		/lf		/lf		57	63
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.02 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	166	3,500.00 /Mnth	63	229	229
John Deere 624 Loader (172 HP) (M)	1900.132	0.02 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	108	3,000.00 /Mnth	54	162	162
Water Truck, 4,000 Gallon (L)	1900.210	0.01 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	43	1,200.00 /Mnth	11	54	54
Mikasa Jumping Jack Compactor (L)	1900.138	0.01 Mnth	/Mnth		/Mnth			200.00 /Mnth	2	100.00 /Mnth	1	3	3
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.01 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	23	500.00 /Mnth	5	27	27
Valve - Plug MJ 6"	2519.160	1.00 ea	33.00 /mh	66	2,000.00 /ea	2,000		/ea		/ea		2,066	2,095
Valve Box Assembly 6' Bury	2519.130	1.00 ea	33.00 /mh	99	320.00 /ea	320		/ea		/ea		419	463

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
02642- WAS to dewatering drain from tank 40M401													
Valve Box 2' Extension	2519.130	2.00 ea	33.00 /mh	33	90.00 /ea	180		/ea		/ea		213	228
Conc Block for Valve	2519.100	1.00 ea	33.00 /mh	17	50.00 /ea	50		/ea		/ea		67	74
Conc Pad for Valve Box	2519.100	1.00 ea	33.00 /mh	66	75.00 /ea	75		/ea		/ea		141	170
Valve Stem Extension	2519.100	1.00 ea	33.00 /mh	33	150.00 /ea	150		/ea		/ea		183	198
Valve Position Indicator	2519.100	1.00 ea	33.00 /mh	33	450.00 /ea	450		/ea		/ea		483	498
Valve - Marker Post	2519.100	1.00 ea	33.00 /mh	33	45.00 /ea	45		/ea		/ea		78	93
Valve - Tee Wrench	2519.100	1.00 ea	33.00 /mh	17	125.00 /ea	125		/ea		/ea		142	149
DI Pipe 6in. dia PEXPE - 7ft. 0in.	15221.010	1.00 ea	33.00 /mh	66	620.00 /ea	620		/ea		/ea		686	715
DI Pipe 4in. dia PEXPE - 5ft. 0in.	15221.010	1.00 ea	33.00 /mh	66	610.00 /ea	610		/ea		/ea		676	705
FCA for DIP 4"	15112.090	1.00 ea	33.00 /mh	66	250.00 /ea	250		/ea		/ea		316	345
DI Pipe 4in. dia FxPE - 1ft. 0in.	15221.030	1.00 ea	33.00 /mh	33	210.00 /ea	210		/ea		/ea		243	258
Valve Plug Flange 125# 4in	15110.650	1.00 ea	33.00 /mh	33	1,700.00 /ea	1,700		/ea		/ea		1,733	1,748
Camlock Adapter SS Flanged 4" W/cap	15220.600	1.00 ea	33.00 /mh	33	550.00 /ea	550		/ea		/ea		583	598
DI MJ Compact Solid Sleeve Long 6	2511.322	1.00 ea	33.00 /mh	33	395.00 /ea	395		/ea		/ea		428	443
* unassigned *													
02642- Trench & Pipe DI MJ was and dewatering 40M201													
Testing Pressure & Leak - Piping	1166.100	2.00 ea	33.00 /mh	528	50.00 /ea	100		50.00 /ea	100	/ea		728	960
DI Pipe MJ - Class 52 4	2511.201	8.00 lf	33.00 /mh	53	42.00 /lf	339		/lf		/lf		392	415
DI Pipe MJ - Class 52 6	2511.201	8.00 lf	33.00 /mh	53	30.00 /lf	242		/lf		/lf		295	318
DI MJ Std Wgt 90 4	2511.214	2.00 ea	33.00 /mh	66	265.00 /ea	530		/ea		/ea		596	625
DI MJ Std Wgt 90 6	2511.214	2.00 ea	33.00 /mh	66	395.00 /ea	790		/ea		/ea		856	885
DI MJ Compact Solid Sleeve Long 4	2511.322	1.00 ea	33.00 /mh	33	250.00 /ea	250		/ea		/ea		283	298
DI MJ Compact Solid Sleeve Long 6	2511.322	1.00 ea	33.00 /mh	33	395.00 /ea	395		/ea		/ea		428	443
Polybag 12" and Smaller	2333.090	16.00 lf	33.00 /mh	5	1.00 /lf	18		/lf		/lf		23	25
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.01 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	74	3,500.00 /Mnth	28	102	102
John Deere 624 Loader (172 HP) (M)	1900.132	0.01 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	48	3,000.00 /Mnth	24	72	72
Mikasa Jumping Jack Compactor (L)	1900.138	0.00 Mnth	/Mnth		/Mnth			200.00 /Mnth	1	100.00 /Mnth	0	1	1
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.00 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	10	500.00 /Mnth	2	12	12
DI Pipe 4in. dia FxE - 8ft. 0in.	15221.010	1.00 ea	33.00 /mh	33	875.00 /ea	875		/ea		/ea		908	923
DI Pipe 6in. dia FxE - 8ft. 0in.	15221.010	1.00 ea	33.00 /mh	66	950.00 /ea	950		/ea		/ea		1,016	1,045
FCA for DIP 4"	15112.090	1.00 ea	33.00 /mh	33	250.00 /ea	250		/ea		/ea		283	298
FCA for DIP 6"	15112.090	1.00 ea	33.00 /mh	33	350.00 /ea	350		/ea		/ea		383	398
DI Pipe 4in. dia FxPE - 1ft. 0in.	15221.030	1.00 ea	33.00 /mh	33	210.00 /ea	210		/ea		/ea		243	258
DI Pipe 6in. dia FxPE - 1ft. 0in.	15221.030	1.00 ea	33.00 /mh	33	240.00 /ea	240		/ea		/ea		273	288
150-01 1c 12042002 Dip aerated sludge holing tank above ground 40M402													
DI Pipe 4in. dia FxF - 0ft. 6in.	15221.010	1.00 ea	33.00 /mh	33	325.00 /ea	325		/ea		/ea		358	373
DI Pipe 4in. dia FxF - 1ft. 0in.	15221.010	1.00 ea	33.00 /mh	33	325.00 /ea	325		/ea		/ea		358	373
DI Pipe 4in. dia FxF - 2ft. 0in.	15221.010	1.00 ea	33.00 /mh	33	380.00 /ea	380		/ea		/ea		413	428
DI Pipe 4in. dia FxF - 12ft. 0in.	15221.010	1.00 ea	33.00 /mh	99	1,050.00 /ea	1,050		/ea		/ea		1,149	1,193
DI Pipe 6in. dia FxF - 1ft 1 in	15221.010	1.00 ea	33.00 /mh	33	210.00 /ea	210		/ea		/ea		243	258
DI Pipe 6in. dia FxF - 1ft. 0in.	15221.010	1.00 ea	33.00 /mh	33	210.00 /ea	210		/ea		/ea		243	258
DI Pipe 6in. dia FxF - 2ft. 0in.	15221.010	1.00 ea	33.00 /mh	66	480.00 /ea	480		/ea		/ea		546	575
DI Flanged 90 ell 4"	15221.430	2.00 ea	33.00 /mh	66	180.00 /ea	360		/ea		/ea		426	455
DI Flanged 90 ell 6"	15221.430	1.00 ea	33.00 /mh	66	280.00 /ea	280		/ea		/ea		346	375
Valve Plug Flange 125# 6in HV-40101	15110.650	1.00 ea	33.00 /mh	66	0.01 /ea	0		/ea		/ea		66	95
NBG Kit 125# SS 4in	15125.012	8.00 ea	33.00 /mh	132	58.00 /ea	464		/ea		/ea		596	654
NBG Kit 125# SS 6in	15125.012	5.00 ea	33.00 /mh	83	75.00 /ea	375		/ea		/ea		458	494
DI Wall Pipe FLG x FLG w/ Collar 4in x 1ft 6in long	15221.328	1.00 ea	33.00 /mh	132	550.00 /ea	550		/ea		/ea		682	740
DI Wall Pipe FLG x FLG w/ Collar 6in x 1ft 6in long	15221.328	1.00 ea	33.00 /mh	132	650.00 /ea	650		/ea		/ea		782	840
Valve Telescoping 4" 40M402 HV-40215	15110.750	1.00 ea	33.00 /mh	792	0.01 /ea	0		/ea		/ea		792	1,140
PS Special Support for 4in DIP	15060.475	4.00 ea	33.00 /mh	528	1,350.00 /ea	5,400		/ea		/ea		5,928	6,160
PS Special Support for 4in teesoping valve stem	15060.475	1.00 ea	33.00 /mh	132	800.00 /ea	800		/ea		/ea		932	990
PS Anchor Bolt 5/8x6 SS	15060.020	16.00 ea	33.00 /mh	26	16.00 /ea	256		/ea		/ea		282	294
DI MEGAFLANGE w/ SS Bolts for DIP 4"	15112.230	1.00 ea	33.00 /mh	33	250.00 /ea	250		/ea		/ea		283	298
DI MEGAFLANGE w/ SS Bolts for DIP 6"	15112.230	1.00 ea	33.00 /mh	66	350.00 /ea	350		/ea		/ea		416	445
DI MJ Compact Solid Sleeve Long 6	2511.322	1.00 ea	33.00 /mh	33	395.00 /ea	395		/ea		/ea		428	443
DI MJ Compact Solid Sleeve Long 4	2511.322	1.00 ea	33.00 /mh	33	250.00 /ea	250		/ea		/ea		283	298
42 SDL Site Drain Lift Station													
sitpump lift station													
02642- Trench & Pipe to site drain lift station 42M201													
Testing Pressure & Leak - Piping	1166.100	1.00 ea	33.00 /mh	264	50.00 /ea	50		50.00 /ea	50	/ea		364	480
Trench Excavation 4- 6'	2333.010	5.00 lf	33.00 /mh	17	/lf			/lf		/lf		17	24
Trench Backfill 4- 6'	2333.020	5.00 lf	33.00 /mh	25	/lf			/lf		/lf		25	36
Utility Bedding Gravel-Crushed	2305.200	0.72 cy	/cy		25.00 /ton	29		/cy		/cy		29	29
Spoils to Waste	2333.060	0.74 cy	33.00 /mh	2	/cy			/cy		/cy		2	4
DI Pipe MJ - Class 52 6	2511.201	5.00 lf	33.00 /mh	17	30.00 /lf	152		/lf		/lf		168	175
DI MJ Std Wgt 90 6	2511.214	1.00 ea	33.00 /mh	17	395.00 /ea	395		/ea		/ea		412	419
DI MJ Compact Solid Sleeve Long 6	2511.322	1.00 ea	33.00 /mh	20	395.00 /ea	395		/ea		/ea		415	424
Polybag 12" and Smaller	2333.090	5.00 lf	33.00 /mh	2	1.00 /lf	6		/lf		/lf		7	8
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.00 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	18	3,500.00 /Mnth	7	25	25
John Deere 624 Loader (172 HP) (M)	1900.132	0.00 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	12	3,000.00 /Mnth	6	18	18
Mikasa Jumping Jack Compactor (L)	1900.138	0.00 Mnth	/Mnth		/Mnth			200.00 /Mnth	0	100.00 /Mnth	0	0	0
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.00 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	3	500.00 /Mnth	1	3	3
150-01 1c 12042002 DIP for site drain lift station 42M201													
DI Pipe 4in. dia FxF - 0ft. 6in.	15221.010	1.00 ea	33.00 /mh	33	325.00 /ea	325		/ea		/ea		358	373
DI Pipe 4in. dia FxF - 1ft. 0in.	15221.010	2.00 ea	33.00 /mh	66	325.00 /ea	650		/ea		/ea		716	745
DI Pipe 4in. dia FxF - 4ft. 0in.	15221.010	3.00 ea	33.00 /mh	99	525.00 /ea	1,575		/ea		/ea		1,674	1,718
DI Pipe 4in. dia FxF - 18ft. 0in.	15221.010	3.00 ea	33.00 /mh	99	1,800.00 /ea	5,400		/ea		/ea		5,499	5,543
DI Pipe 6in. dia FxF - 1ft. 0in.	15221.010	2.00 ea	33.00 /mh	66	210.00 /ea	420		/ea		/ea		486	515
DI Pipe 6in. dia FxF - 2ft. 0in.	15221.010	1.00 ea	33.00 /mh	33	480.00 /ea	480		/ea		/ea		513	528
DI Pipe 6in. dia FxF - 3ft. 6in.	15221.010	1.00 ea	33.00 /mh	33	600.00 /ea	600		/ea		/ea		633	648

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
150-01 1c 12042002 DIP for site drain lift station 42M201													
DI Flanged 90 ell 4" w tapped ell 3-1/2 taps for PI	15221.430	4.00 ea	33.00 /mh	132	1,350.00 /ea	5,400		/ea		/ea		5,532	5,590
DI Flanged Tee 6"	15221.455	2.00 ea	33.00 /mh	99	400.00 /ea	800		/ea		/ea		899	943
DI Flanged Tee 6x4"	15221.455	1.00 ea	33.00 /mh	66	450.00 /ea	450		/ea		/ea		516	545
DI Flanged Con Red 6x4"	15221.445	2.00 ea	33.00 /mh	66	250.00 /ea	500		/ea		/ea		566	595
Valve Check Flange 125# 4in cv-42131, cv42121, cv-42111	15110.040	3.00 ea	33.00 /mh	50	0.01 /ea	0		/ea		/ea		50	71
Valve Plug Flange 125# 4in hv-42131B, hv-4212B, hv-42111B	15110.650	3.00 ea	33.00 /mh	99	0.01 /ea	0		/ea		/ea		99	143
Valve Plug Flange 125# 6in hv-42141	15110.650	1.00 ea	33.00 /mh	33	0.01 /ea	0		/ea		/ea		33	48
PS Pipe Stand grout	15060.404	5.00 ea	33.00 /mh	83	10.00 /ea	50		/ea		/ea		133	169
Instrument - Flow - Magnetic Flow Meter - 6in	17200.000	1.00 ea	33.00 /mh	132	500.00 /ea	500		/ea		/ea		632	690
DI Blind Flange 6" w/ 2" tap	15221.405	1.00 ea	33.00 /mh	33	250.00 /ea	250		/ea		/ea		283	298
NBG Kit 125# SS 6in	15125.012	14.00 ea	33.00 /mh	139	140.00 /ea	1,960		/ea		/ea		2,099	2,160
NBG Kit 125# SS 4in	15125.012	22.00 ea	33.00 /mh	218	58.00 /ea	1,276		/ea		/ea		1,494	1,590
PS Special Support for 4in SS Pipe - plain	15060.475	3.00 ea	33.00 /mh	99	750.00 /ea	2,250		/ea		/ea		2,349	2,393
PS Special Support for 6in SS Pipe - plain	15060.475	2.00 ea	33.00 /mh	132	800.00 /ea	1,600		/ea		/ea		1,732	1,790
Epoxy Anchor 5/8 x 6in SS 316	5001.054	20.00 ea	33.00 /mh	33	15.00 /ea	300		/ea		/ea		333	348
PS Epoxy Anchor 5/8 x 6in SS	15060.112	20.00 ea	33.00 /mh	33	25.00 /ea	500		/ea		/ea		533	548
Valve Air/Vac Combo 2in	15110.007	1.00 ea	33.00 /mh	47	1,500.00 /ea	1,500		/ea		/ea		1,547	1,567
Stainless Steel Nipple 2" X 3"	15212.010	2.00 ea	33.00 /mh	22	30.00 /ea	60		/ea		/ea		82	91
Valve Ball Threaded SS 2in	15110.014	1.00 ea	33.00 /mh	47	0.01 /ea	0		/ea		/ea		47	67
Pressure Gauge Assembly hv-42131A, hv42121A, hv42111A	11200.020	3.00 ea	33.00 /mh	50	750.00 /ea	2,250		/ea		/ea		2,300	2,321
Instrument - Pressure - Gauge pump 1,2,3 site lift station	17400.000	3.00 ea	33.00 /mh	99	500.00 /ea	1,500		/ea		/ea		1,599	1,643
PS Special wall Support for 4in DIP - ss M133	15060.475	12.00 ea	33.00 /mh	396	750.00 /ea	9,000		/ea		/ea		9,396	9,570
PS Anchor Clamp SS 4in	15060.527	12.00 ea	33.00 /mh	119	10.00 /ea	120		/ea		/ea		239	291
Epoxy Anchor 5/8 x 6in SS 316	5001.054	36.00 ea	33.00 /mh	59	15.00 /ea	540		/ea		/ea		599	626
Stainless Steel Nipple 1/2" X 2"	15212.010	6.00 ea	33.00 /mh	50	7.00 /ea	42		/ea		/ea		92	113
Valve Ball Threaded SS 1/2in	15110.014	3.00 ea	33.00 /mh	53	0.01 /ea	0		/ea		/ea		53	77
Instrument - Pressure - indicator	17400.000	3.00 ea	33.00 /mh	99	500.00 /ea	1,500		/ea		/ea		1,599	1,643
Insulation Subcontractor	15403.100	1.00 ls	/ls		/ls			/ls		/ls			
Heat Trace	16000.001	1.00 ls	/ls		/ls			/ls		/ls			
Link Seal Size LS-315-S	15123.050	20.00 ea	33.00 /mh	99	9.00 /ea	180		/ea		/ea		279	323
Link Seal Size LS-475-S	15123.050	24.00 ea	33.00 /mh	119	23.00 /ea	552		/ea		/ea		671	723
400523 Stainless Steel Piping & Tubing													
00 GEN General													
fab steel package													
150-553 Steel Pipe Takeoff													
Supply Steel Pipe Package	15233.405	1.00 ls	/ls		1,180,300.00 /ls	1,180,300		/ls		/ls		1,180,300	1,180,300
Restrained Dismantling Joints	15112.085	1.00 ls	33.00 /mh	66	25,000.00 /ls	25,000		/ls		/ls		25,066	25,095
Restrained Extra Flanges	15112.085	1.00 ls	33.00 /mh	66	25,000.00 /ls	25,000		/ls		/ls		25,066	25,095
01 CIV Civil													
Yard Pipe Yard Pipe													
02641- 18" PA (From MBR to Process)													
Testing Pressure & Leak - Piping	1166.100	1.00 ea	33.00 /mh	264	50.00 /ea	50		50.00 /ea	50	/ea		364	480
Trench Excavation 8-10'	2333.010	120.00 lf	33.00 /mh	990	/lf			/lf		/lf		990	1,426
Trench Backfill 8-10'	2333.020	120.00 lf	33.00 /mh	1,188	/lf			/lf		/lf		1,188	1,711
Utility Bedding Peastone	2305.200	71.11 cy	/cy		25.00 /ton	2,844		/cy		/cy		2,844	2,844
Spoils to Waste	2333.060	71.11 cy	33.00 /mh	235	/cy			/cy		/cy		235	338
sch40 316 Stainless Steel Pipe 18"	15233.505	120.00 lf	33.00 /mh	1,980	/lf			/lf		/lf		1,980	2,851
Polybag 12" and Smaller	2333.090	120.00 lf	33.00 /mh	40	1.00 /lf	132		/lf		/lf		172	189
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.30 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	2,760	3,500.00 /Mnth	1,050	3,810	3,810
John Deere 624 Loader (172 HP) (M)	1900.132	0.30 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	1,800	3,000.00 /Mnth	900	2,700	2,700
Water Truck, 4,000 Gallon (L)	1900.210	0.30 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	1,440	1,200.00 /Mnth	360	1,800	1,800
Mikasa Jumping Jack Compactor (L)	1900.138	0.30 Mnth	/Mnth		/Mnth			200.00 /Mnth	60	100.00 /Mnth	30	90	90
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.30 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	750	500.00 /Mnth	150	900	900
Warning Tape Detectable	2333.080	120.00 lf	33.00 /mh	79	0.08 /lf	10		/lf		/lf		89	124
Tracer Wire	2333.080	140.00 lf	33.00 /mh	92	0.40 /lf	62		/lf		/lf		154	195
Tracer Wire Test Box	2333.080	2.00 ea	33.00 /mh	396	100.00 /ea	200		/ea		/ea		596	770
Weld Burried Pipe	15221.680	6.00 ea	33.00 /mh	792	400.00 /ea	2,400		/ea		/ea		3,192	3,540
Trench Stabilization Rock	2305.050	18.00 cy	/cy		36.00 /ton	1,215		/cy		/cy		1,215	1,215
Dewatering Pumps & Hoses	2240.050	1.00 ls	/ls		/ls			/ls		/ls			
DI Blind Flange 18" w/ 1" Tap for Testing	15221.405	2.00 ea	33.00 /mh	198	1,100.00 /ea	2,200		/ea		/ea		2,398	2,485
Sleeve w/Ring SS 22" x 18"	15121.250	2.00 ea	33.00 /mh	528	3,800.00 /ea	7,600		/ea		/ea		8,128	8,360
Link Seal Size LS-575-S	15123.100	40.00 ea	33.00 /mh	198	45.00 /ea	1,800		/ea		/ea		1,998	2,085
Repair Weld	2333.100	6.00 ea	33.00 /mh	198	0.01 /ea	0		/ea		/ea		198	285
Field Welding - Stainless	5000.985	48.00 hrs	33.00 /mh		/hrs		6,000	/hrs		/hrs		6,000	6,000
02641- 12" PA (From MBR to Sludge Tank)													
Testing Pressure & Leak - Piping	1166.100	2.00 ea	33.00 /mh	528	50.00 /ea	100		50.00 /ea	100	/ea		728	960
Trench Excavation 6- 8'	2333.010	330.00 lf	33.00 /mh	2,178	/lf			/lf		/lf		2,178	3,136
Trench Backfill 6- 8'	2333.020	330.00 lf	33.00 /mh	2,723	/lf			/lf		/lf		2,723	3,920
Utility Bedding Peastone	2305.200	106.30 cy	/cy		25.00 /ton	4,252		/cy		/cy		4,252	4,252
Spoils to Waste	2333.060	106.30 cy	33.00 /mh	351	/cy			/cy		/cy		351	505
sch40 316 Stainless Steel Pipe 8"	15233.505	20.00 lf	33.00 /mh	330	/lf			/lf		/lf		330	475
Stainless Steel Pipe 1" 316ss	15212.005	40.00 lf	33.00 /mh	264	20.00 /lf	800		/lf		/lf		1,064	1,180
sch40 316 Stainless Steel Pipe 12"	15233.505	290.00 lf	33.00 /mh	2,393	/lf			/lf		/lf		2,393	3,445
Polybag 12" and Smaller	2333.090	330.00 lf	33.00 /mh	1,089	1.00 /lf	363		/lf		/lf		1,452	1,931
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.50 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	4,600	3,500.00 /Mnth	1,750	6,350	6,350
John Deere 624 Loader (172 HP) (M)	1900.132	0.50 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	3,000	3,000.00 /Mnth	1,500	4,500	4,500
Water Truck, 4,000 Gallon (L)	1900.210	0.50 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	2,400	1,200.00 /Mnth	600	3,000	3,000
Mikasa Jumping Jack Compactor (L)	1900.138	0.50 Mnth	/Mnth		/Mnth			200.00 /Mnth	100	100.00 /Mnth	50	150	150
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.50 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	1,250	500.00 /Mnth	250	1,500	1,500
Warning Tape Detectable	2333.080	330.00 lf	33.00 /mh	218	0.08 /lf	26		/lf		/lf		244	340
Tracer Wire	2333.080	330.00 lf	33.00 /mh	218	0.40 /lf	145		/lf		/lf		363	459

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
02641- 12" PA (From MBR to Sludge Tank)													
Tracer Wire Test Box		2333.080	3.00 ea	33.00 /mh	594	100.00 /ea	300			/ea		894	1,155
DI Blind Flange 12" w/ 1" Tap for Testing		15221.405	1.00 ea	33.00 /mh	66	475.00 /ea	475			/ea		541	570
DI Blind Flange 8" w/ 1" Tap for Testing		15221.405	1.00 ea	33.00 /mh	66	260.00 /ea	260			/ea		326	355
Sleeve w/Ring SS 16" x 18"		15121.250	1.00 ea	33.00 /mh	198	2,700.00 /ea	2,700			/ea		2,898	2,985
Link Seal Size LS-475-S		15123.100	18.00 ea	33.00 /mh	89	23.00 /ea	414			/ea		503	542
316 Stainless Steel 90 Elbow 1"		15212.040	10.00 ea	33.00 /mh	66	45.00 /ea	450			/ea		516	545
Valve Ball Threaded SS 1in		15110.014	2.00 ea	33.00 /mh	66	150.00 /ea	300			/ea		366	395
PS Expansion Anchor 3/8 x 5in SS		15060.127	8.00 ea	33.00 /mh	26	8.00 /ea	64			/ea		90	102
PS Strut SS 1-5/8 x 1-5/8		15060.476	20.00 lf	33.00 /mh	198	20.00 /lf	400			/lf		598	685
PS 2 Piece Clamp SS 1in		15060.518	4.00 ea	33.00 /mh	40	11.00 /ea	44			/ea		84	101
Pipe Threader, Die, Cutting Oil		1900.300	1.00 ls	/ls		1,500.00 /ls	1,500			/ls		1,500	1,500
Weld Burried Pipe		15221.680	15.00 ea	33.00 /mh	990	400.00 /ea	6,000			/ea		6,990	7,426
Weld Burried Pipe		15221.680	3.00 ea	33.00 /mh	198	200.00 /ea	600			/ea		798	885
Repair Weld		2333.100	18.00 ea	33.00 /mh	594	0.01 /ea	0			/ea		594	856
Field Welding - Stainless		5000.985	72.00 hrs	33.00 /mh		/hrs		1,080		/hrs		1,080	1,080
20 PBS Process Basin													
air piping to diff													
150-553 stainless steel piping to diffusers in basin 20M204 & 20M205													
Fab Stainless Steel Pipe sch 10 304 ss - 12" - 2' F x PE		15233.505	3.00 ea	33.00 /mh	198	/ea				/ea		198	285
Fab Stainless Steel Pipe sch 10 304 ss- 12" - 90 deg ell PE x PE		15233.505	3.00 ea	33.00 /mh	198	/ea				/ea		198	285
Fab Stainless Steel Pipe sch 10 304 ss - 12" - 1' F x PE		15233.505	3.00 ea	33.00 /mh	99	/ea				/ea		99	143
Fab Stainless Steel Pipe sch 10 304 ss - 12" - 6' PE x PE		15233.505	3.00 ea	33.00 /mh	297	/ea				/ea		297	428
Fab Stainless Steel Pipe sch 10 304 ss- 12" x 4" red Tee PE x PE		15233.505	3.00 ea	33.00 /mh	198	/ea				/ea		198	285
Fab Stainless Steel Pipe sch 10 304 ss - 12" - 5' PE x PE		15233.505	3.00 ea	33.00 /mh	198	/ea				/ea		198	285
Fab Stainless Steel Pipe sch 1- 304 ss - 12" x 4" red Tee PE x PE		15233.505	3.00 ea	33.00 /mh	198	/ea				/ea		198	285
Fab Stainless Steel Pipe sch 10 304 ss - 12" - 6' PE x PE		15233.505	3.00 ea	33.00 /mh	297	/ea				/ea		297	428
Fab Stainless Steel Pipe sch 10 304 ss - 12" x 4" red Tee PE x PE		15233.505	3.00 ea	33.00 /mh	198	/ea				/ea		198	285
Fab Stainless Steel Pipe sch 10 304 ss - 12" - 1' F x PE		15233.505	3.00 ea	33.00 /mh	198	/ea				/ea		198	285
Fab Stainless Steel Pipe sch 10 304 ss- 12" - expansion joint		15233.505	36.00 ea	33.00 /mh	3,564	/ea				/ea		3,564	5,132
Fab Stainless Steel Pipe sch 10 304 ss - 12" - 3' F x PE		15233.505	3.00 ea	33.00 /mh	198	/ea				/ea		198	285
Fab Stainless Steel Pipe sch 10 304 ss - 12" x 4" red tee PE x PE		15233.505	3.00 ea	33.00 /mh	297	/ea				/ea		297	428
Fab Stainless Steel Pipe sch 10 304 ss - 12" - 11' PE x PE		15233.505	3.00 ea	33.00 /mh	297	/ea				/ea		297	428
Fab Stainless Steel Pipe sch 10 304 ss - 12" -x 4" red tee PE x PE		15233.505	3.00 ea	33.00 /mh	99	/ea				/ea		99	143
Fab Stainless Steel Pipe sch 10 304 ss - 12" - 8' PE x PE		15233.505	3.00 ea	33.00 /mh	297	/ea				/ea		297	428
Fab Stainless Steel Pipe sch 10 304 ss - 12" x 8" eccentric red PE x PE		15233.505	3.00 ea	33.00 /mh	198	/ea				/ea		198	285
Fab Stainless Steel Pipe sch 10 304 ss - 8" - 7' F x PE		15233.505	3.00 ea	33.00 /mh	198	/ea				/ea		198	285
Fab Stainless Steel Pipe sch 10 304 ss - 8" - expansion joint		15233.505	3.00 ea	33.00 /mh	198	/ea				/ea		198	285
Fab Stainless Steel Pipe sch 10 304 ss - 8" - 8' F x PE		15233.505	3.00 ea	33.00 /mh	198	/ea				/ea		198	285
Fab Stainless Steel Pipe sch 10 304 ss- 8" x 4" red Tee PE x PE		15233.505	3.00 ea	33.00 /mh	198	/ea				/ea		198	285
Fab Stainless Steel Pipe sch 10 304 ss - 8" - 12' PE x PE		15233.505	3.00 ea	33.00 /mh	297	/ea				/ea		297	428
Fab Stainless Steel Pipe sch 10 304 ss - 8" x 4" red Tee PE x PE		15233.505	3.00 ea	33.00 /mh	198	/ea				/ea		198	285
Fab Stainless Steel Pipe sch 10 304 ss - 8" - 8' F x PE		15233.505	3.00 ea	33.00 /mh	198	/ea				/ea		198	285
Fab Stainless Steel Pipe sch 10 304 ss - 8" - *2' F x PE		15233.505	3.00 ea	33.00 /mh	198	/ea				/ea		198	285
Fab Stainless Steel Pipe sch 10 304 ss - 8" - expansion joint		15233.505	3.00 ea	33.00 /mh	198	/ea				/ea		198	285
Fab Stainless Steel Pipe sch 10 304 ss - 8" x 4" red Tee PE x PE		15233.505	3.00 ea	33.00 /mh	198	/ea				/ea		198	285
Fab Stainless Steel Pipe sch 10 304 ss - 8" - 1' PE x PE		15233.505	3.00 ea	33.00 /mh	198	/ea				/ea		198	285
Fab Stainless Steel Pipe sch 10 304 ss - 8" x 3" eccentric red PE x PE		15233.505	3.00 ea	33.00 /mh	198	/ea				/ea		198	285
Fab Stainless Steel Pipe sch 10 304 ss - 3" - 1' PE x PE		15233.505	3.00 ea	33.00 /mh	99	/ea				/ea		99	143
Fab Stainless Steel Pipe sch 10 304 ss - 3" - 45 deg ell		15233.505	3.00 ea	33.00 /mh	99	/ea				/ea		99	143
Fab Stainless Steel Pipe sch 10 304 ss - 3" - 45 deg ell		15233.505	3.00 ea	33.00 /mh	99	/ea				/ea		99	143
Fab Stainless Steel Pipe sch 10 304 ss - 3" - 14' PE x PE		15233.505	3.00 ea	33.00 /mh	99	/ea				/ea		99	143
Fab Stainless Steel Pipe sch 10 304 ss- 3" - Tee PE x PE		15233.505	3.00 ea	33.00 /mh	99	/ea				/ea		99	143
Fab Stainless Steel Pipe sch 10 304 ss - 3" - 18' PE x PE		15233.505	3.00 ea	33.00 /mh	99	/ea				/ea		99	143
Fab Stainless Steel Pipe - 3" - 18' PE x PE		15233.505	3.00 ea	33.00 /mh	297	/ea				/ea		297	428
Fab Stainless Steel Pipe sch 10 304 ss - 3" x 1" ecentric red		15233.505	3.00 ea	33.00 /mh	99	/ea				/ea		99	143
PS Strut SS 1-5/8 x 1-5/8 12 wall supports 3"		15060.476	72.00 lf	33.00 /mh	713	20.00 /lf	1,440			/lf		2,153	2,466
PS Expansion Anchor 3/4 x 5-1/2in SS		15060.127	72.00 ea	33.00 /mh	119	25.00 /ea	1,800			/ea		1,919	1,971
PS Stainelss 4X4 angle with base plate and u bolt		15060.476	24.00 ea	33.00 /mh	3,168	650.00 /ea	15,600			/ea		18,768	20,162
Epoxy Anchor 3/4 x 5-1/2in SS 316		5001.054	48.00 ea	33.00 /mh	79	20.00 /ea	960			/ea		1,039	1,074
PS Pipe Strut Clamp SS 3in		15060.486	36.00 ea	33.00 /mh	356	15.00 /ea	540			/ea		896	1,053
PS Strut SS 1-5/8 x 1-5/8		15060.476	24.00 lf	33.00 /mh	238	20.00 /lf	480			/lf		718	822
Epoxy Anchor 5/8 x 5in SS 316		5001.054	48.00 ea	33.00 /mh	79	15.00 /ea	720			/ea		799	834
Fab Stainless Steel Pipe sch 10 304 ss - 4" - 1' PE x PE		15233.505	24.00 ea	33.00 /mh	792	/ea				/ea		792	1,140
Fab Stainless Steel Pipe sch 10 304 ss - 4" - 90 ell Fx PE		15233.505	48.00 ea	33.00 /mh	1,584	/ea				/ea		1,584	2,281
Fab Stainless Steel Pipe sch 10 304 ss - 4" - 3' PE x PE		15233.505	24.00 ea	33.00 /mh	792	/ea				/ea		792	1,140
Fab Stainless Steel Pipe sch 10 304 ss - 4" - 1' PE x PE		15233.505	3.00 ea	33.00 /mh	99	/ea				/ea		99	143
Fab Stainless Steel Pipe sch 10 304 ss - 4" - 45 deg ell		15233.505	48.00 ea	33.00 /mh	1,584	/ea				/ea		1,584	2,281
Fab Stainless Steel Pipe sch 10 304 ss - 4" - 1' F x PE		15233.505	24.00 ea	33.00 /mh	792	/ea				/ea		792	1,140
NBG Kit 125# SS 4in		15125.012	60.00 ea	33.00 /mh	990	58.00 /ea	3,480			/ea		4,470	4,906
NBG Kit 125# SS 3in		15125.012	18.00 ea	33.00 /mh	297	50.00 /ea	900			/ea		1,197	1,328
NBG Kit 125# SS 8in		15125.012	18.00 ea	33.00 /mh	594	140.00 /ea	2,520			/ea		3,114	3,375
NBG Kit 125# SS 12in		15125.012	18.00 ea	33.00 /mh	594	180.00 /ea	3,240			/ea		3,834	4,095
Fab Stainless Steel Pipe sch 10 304 ss - 3" x 1" concentric red PE x PE		15233.505	9.00 ea	33.00 /mh	74	/ea				/ea		74	107
Stainless Steel Pipe 316 1" unductor tube mixer pipe		15212.005	540.00 lf	33.00 /mh	8,910	12.00 /lf	6,480			/lf		15,390	19,310
Stainless Steel 31645 Elbow 1"		15212.035	18.00 ea	33.00 /mh	178	8.00 /ea	144			/ea		322	401
Stainless Steel 316 90 Elbow 1"		15212.040	24.00 ea	33.00 /mh	238	8.00 /ea	192			/ea		430	534
Valve Ball Threaded SS 1in enducter tube mixer		15110.014	9.00 ea	33.00 /mh	258	0.01 /ea	0			/ea		258	372
Stainless Steel 316 Nipple 1" x 4"		15212.010	36.00 ea	33.00 /mh	297	20.00 /ea	720			/ea		1,017	1,148
Stainless Steel 316Union 1"		15212.060	18.00 ea	33.00 /mh	119	25.00 /ea	450			/ea		569	621
Valve - Butterfly 4" isolations for the diffusers		2519.150	24.00 ea	33.00 /mh	1,584	0.01 /ea	0			/ea		1,584	2,281
PS Strut SS 1-5/8 x 1-5/8 for enducter tube mixer		15060.476	108.00 lf	33.00 /mh	1,069	20.00 /lf	2,160			/lf		3,229	3,700

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
150-553 stainless steel piping to diffusers in basin 20M204 & 20M205													
PS Pipe Strut Clamp SS 1in	15060.486	108.00 ea	33.00 /mh	1,069	11.00 /ea	1,188		/ea		/ea		2,257	2,728
PS Expansion Anchor 5/8 x 5in SS enductor tube mixer	15060.127	324.00 ea	33.00 /mh	535	25.00 /ea	8,100		/ea		/ea		8,635	8,870
Valve Butterfly Flanged 125# 12in FV-20411 FV-20421 FV-20431	15110.020	3.00 ea	33.00 /mh	297	0.01 /ea	0		/ea		/ea		297	428
Stainless Steel Tee 1" 316ww	15212.055	9.00 ea	33.00 /mh	59	15.00 /ea	135		/ea		/ea		194	221
grit NPW flush line													
150-553 Stainless steel rec line anaerobic and anoxic basin 20M203													
Fab Stainless Steel Pipe sch 10 304 ss - 16"- 1' F x PE basin #3	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe sch 10 304 ss - 16"- 45 deg ell basin # 3	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe sch 10 304 ss - 16"- 45 deg ell basin # 3	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe sch 10 304 ss - 16"- 29' V x PE basin # 3	15233.505	1.00 ea	33.00 /mh	396	/ea			/ea		/ea		396	570
Fab Stainless Steel Pipe sch 10 304 ss - 16"- 16' V x F basin # 3	15233.505	1.00 ea	33.00 /mh	198	/ea			/ea		/ea		198	285
Fab Stainless Steel Pipe sch 10 304 ss - 16"- vic coupling basin # 3	15233.505	1.00 ea	33.00 /mh	33	/ea			/ea		/ea		33	48
NBG Kit 125# SS 16in basin # 3	15125.012	4.00 ea	33.00 /mh	264	450.00 /ea	1,800		/ea		/ea		2,064	2,180
PS Special wall Support for 16in SS Pipe - cooper b-line 53067 ss basin # 3	15060.475	5.00 ea	33.00 /mh	990	1,150.00 /ea	5,750		/ea		/ea		6,740	7,176
PS U-bolt 4 with Nuts 16 SS basin # 3	15060.526	5.00 ea	33.00 /mh	145	75.00 /ea	375		/ea		/ea		520	584
PS Expansion Anchor 3/4 x 5-1/2in SS basin # 3	15060.127	20.00 ea	33.00 /mh	33	25.00 /ea	500		/ea		/ea		533	548
Link Seal Size LS-410-S	15123.050	42.00 ea	33.00 /mh	208	23.00 /ea	966		/ea		/ea		1,174	1,265
Fab Stainless Steel Pipe sch 10 304 ss - 16"- 1' F x PE basin #2	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe sch 10 304 ss - 16"- 45 deg ell basin # 2	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe sch 10 304 ss - 16"- 45 deg ell basin # 2	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe sch 10 304 ss - 16"- 29' V x PE basin # 2	15233.505	1.00 ea	33.00 /mh	396	/ea			/ea		/ea		396	570
Fab Stainless Steel Pipe sch 10 304 ss - 16"- 16' V x F basin # 2	15233.505	1.00 ea	33.00 /mh	198	/ea			/ea		/ea		198	285
Fab Stainless Steel Pipe sch 10 304 ss - 16"- vic coupling basin # 2	15233.505	1.00 ea	33.00 /mh	33	/ea			/ea		/ea		33	48
NBG Kit 125# SS 16in basin # 2	15125.012	4.00 ea	33.00 /mh	264	450.00 /ea	1,800		/ea		/ea		2,064	2,180
PS Special wall Support for 16in SS Pipe - copper b-line 53067 ss basin # 2	15060.475	5.00 ea	33.00 /mh	990	1,150.00 /ea	5,750		/ea		/ea		6,740	7,176
PS U-bolt 4 with Nuts 16 SS basin # 2	15060.526	5.00 ea	33.00 /mh	145	75.00 /ea	375		/ea		/ea		520	584
PS Expansion Anchor 3/4 x 5-1/2in SS basin # 2	15060.127	20.00 ea	33.00 /mh	33	25.00 /ea	500		/ea		/ea		533	548
Link Seal Size LS-410-S basin # 2	15123.050	42.00 ea	33.00 /mh	208	23.00 /ea	966		/ea		/ea		1,174	1,265
Fab Stainless Steel Pipe - 16"- 1' F x PE basin # 1	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe - 16"- 45 deg ell basin # 1	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe - 16"- 45 deg ell basin # 1	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe - 16"- 29' V x PE basin # 1	15233.505	1.00 ea	33.00 /mh	396	/ea			/ea		/ea		396	570
Fab Stainless Steel Pipe - 16"- 16' V x F basin # 1	15233.505	1.00 ea	33.00 /mh	198	/ea			/ea		/ea		198	285
Fab Stainless Steel Pipe - 16"- vic coupling basin # 1	15233.505	1.00 ea	33.00 /mh	33	/ea			/ea		/ea		33	48
NBG Kit 125# SS 16in basin # 1	15125.012	4.00 ea	33.00 /mh	264	450.00 /ea	1,800		/ea		/ea		2,064	2,180
PS Special wall Support for 16in SS Pipe - cooper b-line 53067 ss basin # 1	15060.475	5.00 ea	33.00 /mh	990	1,150.00 /ea	5,750		/ea		/ea		6,740	7,176
PS U-bolt 4 with Nuts 16 SS basin # 1	15060.526	5.00 ea	33.00 /mh	145	75.00 /ea	375		/ea		/ea		520	584
PS Expansion Anchor 3/4 x 5-1/2in SS basin # 1	15060.127	20.00 ea	33.00 /mh	33	25.00 /ea	500		/ea		/ea		533	548
Link Seal Size LS-410-s basin # 1	15123.050	42.00 ea	33.00 /mh	208	23.00 /ea	966		/ea		/ea		1,174	1,265
Sleeve SS 20" Stainless sleeve 12" Long	15121.200	3.00 ea	33.00 /mh	2,376	2,800.00 /ea	8,400		/ea		/ea		10,776	11,821
process air from mpr													
150-553 fab ss piping for process air from mbr in to basin 20M205													
Fab Stainless Steel Pipe sch 10 304 ss - 18"- 5' F x PE	15233.505	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Fab Stainless Steel Pipe sch 10 304 ss - 18"- 90 ell PE x PE	15233.505	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Fab Stainless Steel Pipe sch 10 304 ss - 18"- 4' 6" F x PE	15233.505	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Fab Stainless Steel Pipe sch 10 304 ss - 18"- 9' F x PE	15233.505	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Fab Stainless Steel Pipe sch 10 304 ss - 18"- 90 ell F x PE	15233.505	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Fab Stainless Steel Pipe sch 10 304 ss - 18" Tee PE x PE x PE	15233.505	4.00 ea	33.00 /mh	528	/ea			/ea		/ea		528	760
NBG Kit 125# SS 18in	15125.012	12.00 ea	33.00 /mh	792	650.00 /ea	7,800		/ea		/ea		8,592	8,940
PS Special floor Support for 18in SS Steel Pipe - ss 20M405 sec 2	15060.475	8.00 ea	33.00 /mh	1,056	1,150.00 /ea	9,200		/ea		/ea		10,256	10,721
PS Pipe Support SS U Bolt 18"	15060.486	8.00 ea	33.00 /mh	198	350.00 /ea	2,800		/ea		/ea		2,998	3,085
Fab Stainless Steel Pipe sch 10 304 ss - 18" x 12" ecentric re PE x PE	15233.505	3.00 ea	33.00 /mh	396	/ea			/ea		/ea		396	570
Fab Stainless Steel Pipe - 18"sch 10 304 ss - 3' 6" PE x PE	15233.505	3.00 ea	33.00 /mh	396	/ea			/ea		/ea		396	570
Fab Stainless Steel Pipe - 18" - sch 10 304 ss 90 ell PE x PE	15233.505	3.00 ea	33.00 /mh	396	/ea			/ea		/ea		396	570
Fab Stainless Steel Pipe - 18" - sch 10 304 ss 1' F x PE	15233.505	3.00 ea	33.00 /mh	396	/ea			/ea		/ea		396	570
PS Epoxy for Anchors	15060.112	64.00 ea	33.00 /mh	106	5.00 /ea	320		/ea		/ea		426	472
PS Anchors for supports 5/8 x5" SS	15060.112	64.00 ea	33.00 /mh	106	25.00 /ea	1,600		/ea		/ea		1,706	1,752
PS Flange Stand grout 1" grout stand	15060.152	8.00 ea	33.00 /mh	132	10.00 /ea	80		/ea		/ea		212	270
Fab Stainless Steel Pipe - 18" - sch 10 304 ss cap/ blind fange	15233.505	2.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Fab Stainless Steel Pipe - 18" - sch 10 304 ss 6' PE x PE	15233.505	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Fab Stainless Steel Pipe - 18" - sch 10 304 ss 13' 6" PE x PE	15233.505	2.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Fab Stainless Steel Pipe - 18" - sch 10 304 ss 1' F x PE	15233.505	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
NBG Kit 125# SS 18in	15125.012	24.00 ea	33.00 /mh	1,584	650.00 /ea	15,600		/ea		/ea		17,184	17,881
23 MBR MBR Building													
blower piping													
150-553 fab stainless pipe blower room 23M206, 23M406													
Fab Stainless Steel Pipe sch 10 304 ss- 16"- 5' 6" PE x PE	15233.505	1.00 ea	33.00 /mh	99	/ea			/ea		/ea		99	143
Fab Stainless Steel Pipe sch 10 304 ss- 16"- 90 ell PE x PE	15233.505	1.00 ea	33.00 /mh	99	/ea			/ea		/ea		99	143
Fab Stainless Steel Pipe sch 10 304 ss- 16"-23' PE x PE	15233.505	1.00 ea	33.00 /mh	396	/ea			/ea		/ea		396	570
Fab Stainless Steel Pipe sch 10 304 ss- 16"-45 ell PEX PE	15233.505	1.00 ea	33.00 /mh	99	/ea			/ea		/ea		99	143
Fab Stainless Steel Pipe sch 10 304 ss- 16"90 ell PE x PE	15233.505	1.00 ea	33.00 /mh	99	/ea			/ea		/ea		99	143
Fab Stainless Steel Pipe sch 10 304 ss - 16"-6' 6" PE x PE	15233.505	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Fab Stainless Steel Pipe sch 10 304 ss - 16"- 90 ell PE x PE	15233.505	1.00 ea	33.00 /mh	99	/ea			/ea		/ea		99	143
Fab Stainless Steel Pipe sch 10 304 ss - 16"- 8' PE x PE	15233.505	1.00 ea	33.00 /mh	165	/ea			/ea		/ea		165	238
Fab Stainless Steel Pipe sch 10 304 ss - 16"- Tee PE x PE	15233.505	1.00 ea	33.00 /mh	99	/ea			/ea		/ea		99	143
Fab Stainless Steel Pipe sch 10 304 ss - 16"- 16 x 12" red PE x PE	15233.505	1.00 ea	33.00 /mh	99	/ea			/ea		/ea		99	143
Fab Stainless Steel Pipe sch 10 304 ss - 16"-1' PE x PE	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe sch 10 304 ss - 16"- 16 x 8" red tee PE x PE	15233.505	1.00 ea	33.00 /mh	99	/ea			/ea		/ea		99	143
Fab Stainless Steel Pipe sch 10 304 ss - 16"- 4' 6" PE x PE	15233.505	1.00 ea	33.00 /mh	99	/ea			/ea		/ea		99	143
Fab Stainless Steel Pipe sch 10 304 ss - 16"- 16" x 8" tee PE x PE	15233.505	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Fab Stainless Steel Pipe sch 10 304 ss - 16"- flange flat faced	15233.505	1.00 ea	33.00 /mh	99	/ea			/ea		/ea		99	143

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
150-553 fab stainless pipe blower room 23M206, 23M406													
Fab Stainless Steel Pipe sch 10 304 ss - 16" - blind flange	15233.505	1.00 ea	33.00 /mh	99	/ea			/ea		/ea		99	143
Fab Stainless Steel Pipe sch 10 304 ss - 12" V x PE	15233.505	1.00 ea	33.00 /mh	99	/ea			/ea		/ea		99	143
Fab Stainless Steel Pipe sch 10 304 ss - 12" - 12 x 8 tee PE x PE	15233.505	1.00 ea	33.00 /mh	99	/ea			/ea		/ea		99	143
Fab Stainless Steel Pipe sch 10 304 ss - 12" - 3' V x PE	15233.505	1.00 ea	33.00 /mh	99	/ea			/ea		/ea		99	143
Valve butterfly wafer SS 12in FV-23406D	15110.010	1.00 ea	33.00 /mh	132	0.01 /ea	0		/ea		/ea		132	190
Fab Stainless Steel Pipe sch 10 304 ss 6' PE x PE	15233.505	1.00 ea	33.00 /mh	99	/ea			/ea		/ea		99	143
Fab Stainless Steel Pipe sch 10 304 ss - 12" - 2' V x PE	15233.505	1.00 ea	33.00 /mh	99	/ea			/ea		/ea		99	143
Fab Stainless Steel Pipe sch 10 304 ss - 12" - 3' V x PE	15233.505	1.00 ea	33.00 /mh	99	/ea			/ea		/ea		99	143
Valve butterfly wafer ss 12" FV-23406C	15110.010	1.00 ea	33.00 /mh	132	0.01 /ea	0		/ea		/ea		132	190
Fab Stainless Steel Pipe sch 10 304 ss- 12" - 90 ell PE x PE	15233.505	1.00 ea	33.00 /mh	99	/ea			/ea		/ea		99	143
Fab Stainless Steel Pipe sch 10 304 ss - 12" - 25' PE x PE	15233.505	1.00 ea	33.00 /mh	396	/ea			/ea		/ea		396	570
Fab Stainless Steel Pipe sch 10 304 ss - 12" - 12 x 18" red PE x PE	15233.505	1.00 ea	33.00 /mh	99	/ea			/ea		/ea		99	143
Fab Stainless Steel Pipe sch 10 304 ss- 18" - tee PE x PE	15233.505	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Fab Stainless Steel Pipe sch 10 304 ss - 18" - 90 ell PE x PE	15233.505	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Fab Stainless Steel Pipe sch 10 304 ss - 18" - 4' 6" F x PE	15233.505	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Fab Stainless Steel Pipe sch 10 304 ss - 18" - 2' 6" PE x PE	15233.505	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Fab Stainless Steel Pipe sch 10 304 ss - 18" - 18" x 8" tee PE x PE	15233.505	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Fab Stainless Steel Pipe sch 10 304 ss - 18" - 4' 6" Pe x PE	15233.505	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Fab Stainless Steel Pipe sch 10 304 ss - 18" - 18" x 8" PE x PE	15233.505	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Fab Stainless Steel Pipe sch 10 304 ss - 18" - 3' PE x PE	15233.505	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Fab Stainless Steel Pipe sch 10 304 ss- 18" - tee 18" x 8"	15233.505	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Fab Stainless Steel Pipe sch 10 304 ss - 18" - 1' PE x PE	15233.505	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Fab Stainless Steel Pipe sch 10 304 ss - 18" - 1' F x PE Raised face	15233.505	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Fab Stainless Steel Pipe sch 10 304 ss - 18" - blind flange	15233.505	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Fab Stainless Steel Pipe sch 10 304 ss - 18" - 6' 6" PE x PE	15233.505	1.00 ea	33.00 /mh	198	/ea			/ea		/ea		198	285
NBG Kit 125# SS 18in	15125.012	6.00 ea	33.00 /mh	396	650.00 /ea	3,900		/ea		/ea		4,296	4,470
Fab Stainless Steel Pipe - 8" - 1' PE x V	15233.505	6.00 ea	33.00 /mh	396	/ea			/ea		/ea		396	570
Valve Butterfly Flanged 8in HV-23408B	15110.020	1.00 ea	33.00 /mh	66	0.01 /ea	0		/ea		/ea		66	95
Valve Butterfly Flanged 8in HV-23405B	15110.020	1.00 ea	33.00 /mh	66	0.01 /ea	0		/ea		/ea		66	95
Valve Butterfly Flanged 8in HV-23407B	15110.020	1.00 ea	33.00 /mh	66	0.01 /ea	0		/ea		/ea		66	95
Valve Butterfly Flanged 8in HV-23404B	15110.020	1.00 ea	33.00 /mh	66	0.01 /ea	0		/ea		/ea		66	95
Valve Butterfly Flanged 8in HV-23403B	15110.020	1.00 ea	33.00 /mh	66	0.01 /ea	0		/ea		/ea		66	95
Valve Butterfly Flanged 8in HV-23406B	15110.020	1.00 ea	33.00 /mh	66	0.01 /ea	0		/ea		/ea		66	95
Fab Stainless Steel Pipe sch 10 304 ss 8" 1" F x V	15110.020	1.00 ea	33.00 /mh	264	0.01 /ea	0		/ea		/ea		264	380
Valve Butterfly Flanged 8in FV-40511	15110.020	1.00 ea	33.00 /mh	66	0.01 /ea	0		/ea		/ea		66	95
Fab Stainless Steel Pipe sch 10 304 ss - 8" - 3' V x PE	15233.505	1.00 ea	33.00 /mh	83	/ea			/ea		/ea		83	119
Fab Stainless Steel Pipe sch 10 304 ss - 8" - 90 ell PE x PE	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe sch 10 304 ss - 8" - 5' PE x F flat face	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe sch 10 304 ss - 8" - 90 ell F x F	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
NBG Kit 125# SS 8in	15125.012	6.00 ea	33.00 /mh	198	140.00 /ea	840		/ea		/ea		1,038	1,125
Fab Stainless Steel Pipe sch 10 304 ss - 8" - 5' 6" F x F	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe sch 10 304 ss - 18" - 90 ell F x F	15233.505	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Fab Stainless Steel Pipe sch 10 304 ss- 18" - 5' F x F w/ 1/2 tap for instrumentation	15233.505	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
PS Clevis Hanger SS 16in w/ horizontal sway bracing M146	15060.096	12.00 ea	33.00 /mh	1,980	600.00 /ea	7,200		/ea		/ea		9,180	10,051
PS Beam Clamp Adj 1" misc horizontal sway bracing M146	15060.053	24.00 ea	33.00 /mh	1,584	1,350.00 /ea	32,400		/ea		/ea		33,984	34,681
PS Threaded Rod 1" SS M146	15060.502	120.00 lf	33.00 /mh	396	25.00 /lf	3,000		/lf		/lf		3,396	3,570
PS Hex Nut SS 1" M146	15060.354	72.00 ea	33.00 /mh	238	3.00 /ea	216		/ea		/ea		454	558
PS Flange Stand for 16in SS 1ft 6in floor to centerline SS M132	15060.156	12.00 ea	33.00 /mh	1,584	1,350.00 /ea	16,200		/ea		/ea		17,784	18,481
Fab Stainless Steel Pipe sch 10 304 ss - 20" - blind flange	15233.505	1.00 ea	33.00 /mh	165	/ea			/ea		/ea		165	238
Fab Stainless Steel Pipe sch 10 304 ss - 20" - 1' F X PE flat faced	15233.505	1.00 ea	33.00 /mh	165	/ea			/ea		/ea		165	238
Fab Stainless Steel Pipe sch 10 304 ss - 20" - Tee 20" x 10"	15233.505	1.00 ea	33.00 /mh	165	/ea			/ea		/ea		165	238
Fab Stainless Steel Pipe sch 10 304 ss - 20" - 4' PE x PE	15233.505	1.00 ea	33.00 /mh	165	/ea			/ea		/ea		165	238
Fab Stainless Steel Pipe sch 10 304 ss - 20" - Tee 20" x 10"	15233.505	1.00 ea	33.00 /mh	165	/ea			/ea		/ea		165	238
Fab Stainless Steel Pipe sch 10 304 ss - 20" - 4" PE x PE	15233.505	1.00 ea	33.00 /mh	165	/ea			/ea		/ea		165	238
Fab Stainless Steel Pipe sch 10 304 ss - 20" - Tee 20 x 10"	15233.505	1.00 ea	33.00 /mh	165	/ea			/ea		/ea		165	238
Fab Stainless Steel Pipe sch 10 304 ss - 20" - 9' 6" F x PE flat face	15233.505	1.00 ea	33.00 /mh	396	/ea			/ea		/ea		396	570
NBG Kit 125# SS 20in	15125.012	2.00 ea	33.00 /mh	132	725.00 /ea	1,450		/ea		/ea		1,582	1,640
Fab Stainless Steel Pipe sch 10 304 ss - 20" - blind flange	15233.505	1.00 ea	33.00 /mh	165	/ea			/ea		/ea		165	238
Fab Stainless Steel Pipe sch 10 304 ss - 20" - 1' F x PE flat faced	15233.505	1.00 ea	33.00 /mh	165	/ea			/ea		/ea		165	238
Fab Stainless Steel Pipe sch 10 304 ss - 20" - Tee 20 x 10" PE x PE	15233.505	1.00 ea	33.00 /mh	165	/ea			/ea		/ea		165	238
Fab Stainless Steel Pipe sch 10 304 ss - 20" - 4' PE x PE	15233.505	1.00 ea	33.00 /mh	165	/ea			/ea		/ea		165	238
Fab Stainless Steel Pipe sch 10 304 ss - 20" - Tee 20" x 10" PE x PE	15233.505	1.00 ea	33.00 /mh	165	/ea			/ea		/ea		165	238
Fab Stainless Steel Pipe sch 10 304 ss - 20" - 4' PE x PE	15233.505	1.00 ea	33.00 /mh	165	/ea			/ea		/ea		165	238
Fab Stainless Steel Pipe sch 10 304 ss - 20" - Tee 20" x 10"	15233.505	1.00 ea	33.00 /mh	165	/ea			/ea		/ea		165	238
Fab Stainless Steel Pipe sch 10 304 ss - 20" - 7' F x PE	15233.505	1.00 ea	33.00 /mh	165	/ea			/ea		/ea		165	238
NBG Kit 125# SS 20in	15125.012	1.00 ea	33.00 /mh	99	725.00 /ea	725		/ea		/ea		824	868
Fab Stainless Steel Pipe sch 10 304 ss - 10" - 1' F x PE	15233.505	6.00 ea	33.00 /mh	396	/ea			/ea		/ea		396	570
Fab Stainless Steel Pipe sch 10 304 ss - 10" - expansion joint EPDM	15233.505	6.00 ea	33.00 /mh	396	/ea			/ea		/ea		396	570
Fab Stainless Steel Pipe sch 10 304 ss - 10" - 1' F x F	15233.505	6.00 ea	33.00 /mh	396	/ea			/ea		/ea		396	570
Fab Stainless Steel Pipe sch 10 304 ss - 10" - 1' F x PE	15233.505	6.00 ea	33.00 /mh	396	/ea			/ea		/ea		396	570
Fab Stainless Steel Pipe sch 10 304 ss - 10" - 90 ell F x PE	15233.505	6.00 ea	33.00 /mh	396	/ea			/ea		/ea		396	570
NBG Kit 125# SS 10in	15125.012	18.00 ea	33.00 /mh	594	170.00 /ea	3,060		/ea		/ea		3,654	3,915
Valve Butterfly Flanged 10in HV-23405A	15110.020	1.00 ea	33.00 /mh	66	0.01 /ea	0		/ea		/ea		66	95
Valve Butterfly Flanged 10in HV-23408A	15110.020	1.00 ea	33.00 /mh	66	0.01 /ea	0		/ea		/ea		66	95
Valve Butterfly Flanged 10in HV-20343A	15110.020	1.00 ea	33.00 /mh	66	0.01 /ea	0		/ea		/ea		66	95
Valve Butterfly Flanged 10in HV-20344A	15110.020	1.00 ea	33.00 /mh	66	0.01 /ea	0		/ea		/ea		66	95
Valve Butterfly Flanged 10in HV-23406A	15110.020	1.00 ea	33.00 /mh	66	0.01 /ea	0		/ea		/ea		66	95
Valve Butterfly Flanged 10in HV-23407A	15110.020	1.00 ea	33.00 /mh	66	0.01 /ea	0		/ea		/ea		66	95
PS Special Support for 10in SS Pipe - exterior 23M901	15060.475	2.00 ea	33.00 /mh	264	850.00 /ea	1,700		/ea		/ea		1,964	2,080
PS Expansion Anchor 3/4 x 5-1/2in SS exterior stands	15060.127	16.00 ea	33.00 /mh	26	25.00 /ea	400		/ea		/ea		426	438
Stainless Steel Nipple 1/2" X 2" for instrumentation	15212.010	2.00 ea	33.00 /mh	17	7.00 /ea	14		/ea		/ea		31	38
Valve Ball Threaded SS 1/2in for instrumentation	15110.014	1.00 ea	33.00 /mh	18	0.01 /ea	0		/ea		/ea		18	26

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
150-553 fab stainless pipe blower room 23M206, 23M406													
Insulation Subcontractor													
	15403.100	1.00 ls	/ls		/ls			/ls		/ls			
Fab Stainless Steel Pipe sch 10 304 ss - 18" - 1' FL x MJ to process basin	15233.505	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Fab Stainless Steel Pipe sch 10 304 ss - 18" - FCA to process basin	15233.505	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Fab Stainless Steel Pipe - 18" - 90 ell PE x PE to process basin	15233.505	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Fab Stainless Steel Pipe - 18" - 5' PE x F	15233.505	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
NBG Kit 125# SS 18in	15125.012	1.00 ea	33.00 /mh	66	650.00 /ea	650		/ea		/ea		716	745
Fab Stainless Steel Pipe - 8" - 1' F x MJ	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe - 8" - FCA conn	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe - 8" - 3' PE x MJ	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe - 8" - 90 ell PE x PE	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe - 8" - 5' PE x F	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Sleeve Steel floor 1' 6"	15121.800	1.00 ea	33.00 /mh	66	475.00 /ea	475		/ea		/ea		541	570
Sleeve Steel floor 1' 6"	15121.800	1.00 ea	33.00 /mh	66	475.00 /ea	475		/ea		/ea		541	570
PS Pipe Stand grout	15060.404	2.00 ea	33.00 /mh	33	10.00 /ea	20		/ea		/ea		53	68
NBG Kit 125# SS 20in add flanges for fab peices to install	15125.012	16.00 ea	33.00 /mh	1,584	725.00 /ea	11,600		/ea		/ea		13,184	13,881
NBG Kit 125# Steel 10in add flanges for fab pieces to install	15125.010	8.00 ea	33.00 /mh	264	60.00 /ea	480		/ea		/ea		744	860
NBG Kit 125# Steel 8in add flanges for fab pieces to install	15125.010	4.00 ea	33.00 /mh	132	50.00 /ea	200		/ea		/ea		332	390
DI VIC Coupling 12"	15221.680	8.00 ea	33.00 /mh	396	500.00 /ea	4,000		/ea		/ea		4,396	4,570
DI VIC Coupling 8"	15221.680	8.00 ea	33.00 /mh	264	200.00 /ea	1,600		/ea		/ea		1,864	1,980
NBG Kit 125# SS 20in	15125.012	16.00 ea	33.00 /mh	1,584	725.00 /ea	11,600		/ea		/ea		13,184	13,881
NBG Kit 125# SS 18in	15125.012	12.00 ea	33.00 /mh	1,188	650.00 /ea	7,800		/ea		/ea		8,988	9,511
NBG Kit 125# SS 16in	15125.012	12.00 ea	33.00 /mh	792	450.00 /ea	5,400		/ea		/ea		6,192	6,540
NBG Kit 125# SS 10in	15125.012	6.00 ea	33.00 /mh	198	170.00 /ea	1,020		/ea		/ea		1,218	1,305
NBG Kit 125# SS 8in	15125.012	6.00 ea	33.00 /mh	198	140.00 /ea	840		/ea		/ea		1,038	1,125
Escutcheon 20"	15124.200	2.00 ea	33.00 /mh	264	450.00 /ea	900		/ea		/ea		1,164	1,280
Escutcheon 8"	15124.200	1.00 ea	33.00 /mh	132	250.00 /ea	250		/ea		/ea		382	440
Escutcheon 18"	15124.200	1.00 ea	33.00 /mh	132	450.00 /ea	450		/ea		/ea		582	640
Valve Butterfly Wafer 125# 12in FV-23406A, FV-23406B	15110.034	2.00 ea	33.00 /mh	132	0.01 /ea	0		/ea		/ea		132	190
compressed air pipe													
150-553 ss compressed air piping 23M203, 23M204, 23M209, 23M404													
Stainless Steel Pipe 1"	15212.005	50.00 lf	33.00 /mh	825	12.00 /lf	600		/lf		/lf		1,425	1,788
Stainless Steel Pipe 1"x 1/2 TEE	15212.005	11.00 ea	33.00 /mh	182	25.00 /ea	275		/ea		/ea		457	536
Stainless Steel Pipe 1"	15212.005	72.00 lf	33.00 /mh	1,188	12.00 /lf	864		/lf		/lf		2,052	2,575
Stainless Steel 90 Elbow 1"	15212.040	8.00 ea	33.00 /mh	132	8.00 /ea	64		/ea		/ea		196	254
Stainless Steel Pipe 1/2" 90 ell	15212.005	16.00 ea	33.00 /mh	264	8.00 /ea	128		/ea		/ea		392	508
Stainless Steel Pipe 1/2"	15212.005	32.00 lf	33.00 /mh	528	6.00 /lf	192		/lf		/lf		720	952
Stainless Steel Pipe 1x 1/2 red	15212.005	12.00 ea	33.00 /mh	198	25.00 /ea	300		/ea		/ea		498	585
Stainless Steel Pipe 1/2"3/4 x 1/2 red	15212.005	4.00 ea	33.00 /mh	66	15.00 /ea	60		/ea		/ea		126	155
Stainless Steel Pipe 1/2" x 1/4 bushing	15212.005	12.00 ea	33.00 /mh	198	10.00 /ea	120		/ea		/ea		318	405
1/4 numatic tubing to injection system and numatic control valves	15212.005	48.00 lf	33.00 /mh	792	8.00 /lf	384		/lf		/lf		1,176	1,524
1/4 compression couplings	15212.005	12.00 ea	33.00 /mh	198	8.00 /ea	96		/ea		/ea		294	381
Valve Ball Threaded SS 3/4in compressed air at chemical injection and numatic valves	15110.014	12.00 ea	33.00 /mh	792	0.01 /ea	0		/ea		/ea		792	1,141
Valve PRV ss threaded 150# 3/4" MFV-23612	15110.715	1.00 ea	33.00 /mh	99	0.01 /ea	0		/ea		/ea		99	143
Valve Ball Threaded alum 3/4in HV-23611B, HV-23611A	15110.014	2.00 ea	33.00 /mh	66	0.01 /ea	0		/ea		/ea		66	95
Valve Ball Threaded alum 3/4in HV-23621B, HV-23621A, HV-23621C	15110.014	3.00 ea	33.00 /mh	99	0.01 /ea	0		/ea		/ea		99	143
PS Strut Post Base SS at compressor	15060.478	8.00 ea	33.00 /mh	264	52.00 /ea	416		/ea		/ea		680	796
PS Strut SS 1-5/8 x 1-5/8	15060.476	80.00 lf	33.00 /mh	1,320	20.00 /lf	1,600		/lf		/lf		2,920	3,501
PS Pipe Strut Clamp SS 3/4in	15060.486	16.00 ea	33.00 /mh	264	5.00 /ea	80		/ea		/ea		344	460
PS Pipe Strut Clamp SS 1in	15060.486	30.00 ea	33.00 /mh	495	11.00 /ea	330		/ea		/ea		825	1,043
Stainless Steel Nipple 3/4" X 4"	15212.010	24.00 ea	33.00 /mh	396	7.00 /ea	168		/ea		/ea		564	738
Stainless Steel Union 3/4"	15212.060	12.00 ea	33.00 /mh	198	15.00 /ea	180		/ea		/ea		378	465
Stainless Steel Tee 3/4"	15212.055	12.00 ea	33.00 /mh	198	9.00 /ea	108		/ea		/ea		306	393
Stainless Steel Pipe 3/4"	15212.005	60.00 lf	33.00 /mh	990	8.00 /lf	480		/lf		/lf		1,470	1,906
Stainless Steel 90 Elbow 3/4"	15212.040	16.00 ea	33.00 /mh	264	7.00 /ea	112		/ea		/ea		376	492
Instrument - Pressure - Gauge	17400.000	2.00 ea	33.00 /mh	264	500.00 /ea	1,000		/ea		/ea		1,264	1,380
Valve Ball Threaded SS 1/2in	15110.014	2.00 ea	33.00 /mh	66	0.01 /ea	0		/ea		/ea		66	95
Stainless Steel Nipple 1/2" X 2"	15212.010	8.00 ea	33.00 /mh	132	7.00 /ea	56		/ea		/ea		188	246
Valve Ball Threaded SS 3/4in at compressor HV-23604A HV-23604A	15110.014	2.00 ea	33.00 /mh	66	0.01 /ea	0		/ea		/ea		66	95
PS Flange Stand grout	15060.152	2.00 ea	33.00 /mh	66	10.00 /ea	20		/ea		/ea		86	115
PS Epoxy Anchor 5/8 x 5in SS	15060.112	8.00 ea	33.00 /mh	26	25.00 /ea	200		/ea		/ea		226	238
PS Epoxy for Anchors	15060.112	8.00 ea	33.00 /mh	13	5.00 /ea	40		/ea		/ea		53	59
PS Epoxy Anchor 5/8 x 5in SS for unistrut wall supports	15060.112	90.00 ea	33.00 /mh	297	25.00 /ea	2,250		/ea		/ea		2,547	2,678
Stainless Steel Pipe 1/4"	15212.005	40.00 lf	33.00 /mh	660	6.00 /lf	240		/lf		/lf		900	1,190
Stainless Steel 90 Elbow 1/4"	15212.040	12.00 ea	33.00 /mh	198	13.00 /ea	156		/ea		/ea		354	441
Stainless Steel 90 Elbow 3/4" to mbr chemical clean system	15212.040	12.00 ea	33.00 /mh	198	7.00 /ea	84		/ea		/ea		282	369
Stainless Steel Pipe 3/4" to mbr chemical clean system	15212.005	30.00 lf	33.00 /mh	495	8.00 /lf	240		/lf		/lf		735	953
Stainless Steel Pipe 1/2" compressed air to valves	15212.005	60.00 lf	33.00 /mh	990	6.00 /lf	360		/lf		/lf		1,350	1,786
Stainless Steel Bushing mpt x fpt 1/2in x 1/4in to valves	15212.015	4.00 ea	33.00 /mh	66	3.00 /ea	12		/ea		/ea		78	107
Stainless Steel 90 Elbow 1/2"	15212.040	16.00 ea	33.00 /mh	264	7.00 /ea	112		/ea		/ea		376	492
Stainless Steel Union 1/2"	15212.060	4.00 ea	33.00 /mh	66	12.00 /ea	48		/ea		/ea		114	143
Stainless Steel Tee 1" x 1/2 tee	15212.055	4.00 ea	33.00 /mh	66	15.00 /ea	60		/ea		/ea		126	155
Stainless Steel Pipe 1/4" connection to valves	15212.005	20.00 ea	33.00 /mh	330	25.00 /ea	500		/ea		/ea		830	975
Epoxy for Anchors 5/8 x5	5001.052	90.00 ea	33.00 /mh	297	5.00 /ea	450		/ea		/ea		747	878
Valve Ball Threaded Bronze 1in condensate isolation	15110.014	1.00 ea	33.00 /mh	33	0.01 /ea	0		/ea		/ea		33	48
Valve PRV Flange SS 150# .5"	15110.735	1.00 ea	33.00 /mh	132	750.00 /ea	750		/ea		/ea		882	940
dewatering comp air													
150-553 compressed air piping 23M210													
Stainless Steel Pipe 3/4"	15212.005	80.00 lf	33.00 /mh	1,320	8.00 /lf	640		/lf		/lf		1,960	2,541
Stainless Steel Nipple 3/4" X 3"	15212.010	12.00 ea	33.00 /mh	198	7.00 /ea	84		/ea		/ea		282	369
Stainless Steel 90 Elbow 3/4"	15212.040	12.00 ea	33.00 /mh	198	7.00 /ea	84		/ea		/ea		282	369
Stainless Steel Bushing mpt x fpt 3/4in x 1/4in	15212.015	2.00 ea	33.00 /mh	33	4.00 /ea	8		/ea		/ea		41	56
Stainless Steel Tee 3/4"	15212.055	1.00 ea	33.00 /mh	17	9.00 /ea	9		/ea		/ea		26	33

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
150-553 compressed air piping 23M210													
Stainless Steel Union 3/4"	15212.060	2.00 ea	33.00 /mh	33	15.00 /ea	30		/ea		/ea		63	78
PS Strut SS 1-5/8 x 1-5/8	15060.476	60.00 lf	33.00 /mh	990	20.00 /lf	1,200		/lf		/lf		2,190	2,626
PS Strut Post Base SS	15060.478	8.00 ea	33.00 /mh	132	52.00 / ea	416		/ ea		/ ea		548	606
Epoxy Anchor 3/8 x 5in SS 316	5001.054	32.00 ea	33.00 /mh	528	8.00 /ea	256		/ea		/ea		784	1,016
PS Flange Stand grout	15060.152	8.00 ea	33.00 /mh	132	10.00 /ea	80		/ea		/ea		212	270
1/4 flex hose	15212.005	20.00 lf	33.00 /mh	330	3.00 /lf	60		/lf		/lf		390	535
1/4 ball valve drain	15212.005	2.00 ea	33.00 /mh	33	15.00 / ea	30		/ ea		/ ea		63	78
Valve Stainless steel 3/4in -	15110.003	3.00 ea	33.00 /mh	99	75.00 /ea	225		/ea		/ea		324	368
Valve Ball Threaded SS 1in	15110.014	1.00 ea	33.00 /mh	33	0.01 /ea	0		/ea		/ea		33	48
Stainless Steel Pipe 1"	15212.005	10.00 lf	33.00 /mh	165	12.00 /lf	120		/lf		/lf		285	358
Stainless Steel Reducer mpt x fpt 1in x 3/4in	15212.050	1.00 ea	33.00 /mh	17	24.00 /ea	24		/ea		/ea		41	48
pre fab SS permeate													
150-553 Fabricated SS piping for Permeater piping 23M203 & 23M405													
Fab Stainless Steel Pipe 304 ss sch 10 - 14" x 8" tee PE x PE	15233.505	4.00 ea	33.00 /mh	396	/ea			/ea		/ea		396	570
Fab Stainless Steel Pipe 304 ss sch 10 - 8" x 1" F x PE	15233.505	4.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Fab Stainless Steel Pipe 304 ss sch 10 - 8" 90 F x F	15233.505	4.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Fab Stainless Steel Pipe 304 ss sch 10 - 8" 2' 6" F x Gooved	15233.505	4.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Fab Stainless Steel Pipe 304 ss sch 10 - 8" x 3' V x F raised face w/ 1/2 tap top and bottom	15233.505	4.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Fab Stainless Steel Pipe 304 ss sch 10- 8" EPDM expansion joint	15233.505	8.00 ea	33.00 /mh	792	/ea			/ea		/ea		792	1,140
Instrument - Flow - Magnetic Flow Meter - 8in	17200.000	4.00 ea	33.00 /mh	528	500.00 /ea	2,000		/ea		/ea		2,528	2,760
Fab Stainless Steel Pipe 304 ss sch 10- 8" vic coupling for flow meter	15233.505	8.00 ea	33.00 /mh	528	/ea			/ea		/ea		528	760
Fab Stainless Steel Pipe 304 ss sch 10- 8" 1' F x PE	15233.505	8.00 ea	33.00 /mh	528	/ea			/ea		/ea		528	760
Fab Stainless Steel Pipe 304 ss sch 10 - 8" 90 ell PE x PE	15233.505	4.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Fab Stainless Steel Pipe 304 ss sch 10 - 8" wafer butterfly FV-23311,HV-23336,HV-23326,HV-23346	15233.505	4.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Fab Stainless Steel Pipe 304 ss sch 10 - 8" - 1' 6" F x PE	15233.505	4.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Fab Stainless Steel Pipe 304 ss sch 10 - 8" 90 ell PE x PE w/ 1/2 tap for instrumentation	15233.505	4.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Fab Stainless Steel Pipe 304 ss sch 10 - 8" 12' 6" F x PE	15233.505	4.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Fab Stainless Steel Pipe 304 ss sch 10 - 8" 7' F x F w/ 2 - 1" tap for chemical injection	15233.505	4.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Fab Stainless Steel Pipe 304 ss sch 10 - 8" wafer butterfly FV-23316,FV-23331,FV-23321,FV-23341	15233.505	4.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Stainless Steel Nipple 1/2" X 4" for instamentation	15212.010	8.00 ea	33.00 /mh	66	7.00 /ea	56		/ea		/ea		122	151
Valve Ball Threaded SS 1/2in	15110.014	4.00 ea	33.00 /mh	132	0.01 /ea	0		/ea		/ea		132	190
Instrument - pressure switch	17400.000	4.00 ea	33.00 /mh	264	500.00 /ea	2,000		/ea		/ea		2,264	2,380
PS special stacked floor Support for 8in SS Pipe - 1' 6" and 5' 23 M901 - 6	15060.475	4.00 ea	33.00 /mh	528	1,100.00 /ea	4,400		/ea		/ea		4,928	5,160
floor Support for 8in SS Pipe - 1' 6"	15060.475	8.00 ea	33.00 /mh	1,056	850.00 /ea	6,800		/ea		/ea		7,856	8,321
PS Epoxy Anchor 5/8 x 5in SS	15060.112	96.00 ea	33.00 /mh	158	25.00 /ea	2,400		/ea		/ea		2,558	2,628
PS Epoxy for Anchors	15060.112	96.00 ea	33.00 /mh	158	5.00 /ea	480		/ea		/ea		638	708
PS U-bolt 4 with Nuts 8 SS	15060.526	24.00 ea	33.00 /mh	111	120.00 /ea	2,880		/ea		/ea		2,991	3,040
NBG Kit 125# SS 8in	15125.012	44.00 ea	33.00 /mh	726	140.00 /ea	6,160		/ea		/ea		6,886	7,205
Valve Ball Threaded SS 1/2in HV-22312 HV-23337 HV-233327,HV-233347	15110.014	4.00 ea	33.00 /mh	132	0.01 /ea	0		/ea		/ea		132	190
Stainless Steel Nipple sch 40 1/2" X 4" at pumps	15212.010	48.00 ea	33.00 /mh	396	7.00 /ea	336		/ea		/ea		732	906
Stainless Steel 90 Elbow sch 40 1/2" at pumps	15212.040	8.00 ea	33.00 /mh	53	7.00 /ea	56		/ea		/ea		109	132
Stainless Steel 90 Elbow sch 40 1/2"	15212.040	4.00 ea	33.00 /mh	26	7.00 /ea	28		/ea		/ea		54	66
Stainless Steel Nipple sch 40 1/2" X 6"	15212.010	12.00 ea	33.00 /mh	99	9.00 /ea	108		/ea		/ea		207	251
Valve Ball Threaded SS 1/2in HV-22314, HV-23333,HV23323,HV-23343	15110.014	4.00 ea	33.00 /mh	132	0.01 /ea	0		/ea		/ea		132	190
Valve Ball Threaded SS 1/2in HV-23332, HV-23322, HV-23342, HV-23313	15110.014	4.00 ea	33.00 /mh	132	0.01 /ea	0		/ea		/ea		132	190
Fab Stainless Steel Pipe 304 ss sch 10 - 14" PE cap	15233.505	2.00 ea	33.00 /mh	198	/ea			/ea		/ea		198	285
Fab Stainless Steel Pipe 304 ss sch 10 - 14" - 8' PE x PE	15233.505	2.00 ea	33.00 /mh	198	/ea			/ea		/ea		198	285
Fab Stainless Steel Pipe 304 ss sch 10 - 14" - 3' PE x PE	15233.505	2.00 ea	33.00 /mh	198	/ea			/ea		/ea		198	285
Fab Stainless Steel Pipe 304 ss sch 10 - 14" Tee PE x PE w/ 4" tap w/ flange	15233.505	1.00 ea	33.00 /mh	99	/ea			/ea		/ea		99	143
Fab Stainless Steel Pipe 304 ss sch 10 - 14" - blind flange w/2" tap	15233.505	1.00 ea	33.00 /mh	99	/ea			/ea		/ea		99	143
Fab Stainless Steel Pipe 304 ss sch 10 - 14" - 3' PE x PE	15233.505	1.00 ea	33.00 /mh	99	/ea			/ea		/ea		99	143
Fab Stainless Steel Pipe 304 ss sch 10 - 14" FCA connection	15233.505	2.00 ea	33.00 /mh	198	/ea			/ea		/ea		198	285
Valve Air/Vac Combo 2in MFV-23317	15110.007	1.00 ea	33.00 /mh	132	0.01 /ea	0		/ea		/ea		132	190
NBG Kit 125# SS 4in	15125.012	1.00 ea	33.00 /mh	17	58.00 /ea	58		/ea		/ea		75	82
Fab Stainless Steel Pipe - 14" 8' PE x PE	15233.505	1.00 ea	33.00 /mh	99	/ea			/ea		/ea		99	143
Fab Stainless Steel Pipe - 14" - 90 ell long sweep	15233.505	2.00 ea	33.00 /mh	198	/ea			/ea		/ea		198	285
Fab Stainless Steel Pipe - 14" - 33' to UV disinfectant PE x PE	15233.505	1.00 ea	33.00 /mh	99	/ea			/ea		/ea		99	143
Fab Stainless Steel Pipe - 14" 8' F x PE	15233.505	1.00 ea	33.00 /mh	99	/ea			/ea		/ea		99	143
Stainless Steel Pipe 1"	15212.005	40.00 lf	33.00 /mh	660	12.00 /lf	480		/lf		/lf		1,140	1,430
Stainless Steel 90 Elbow 1"	15212.040	16.00 ea	33.00 /mh	264	8.00 /ea	128		/ea		/ea		392	508
Stainless Steel Nipple 1" x 3"	15212.010	32.00 ea	33.00 /mh	528	20.00 /ea	640		/ea		/ea		1,168	1,400
Stainless Steel Nipple 1/2" X 2"	15212.010	32.00 ea	33.00 /mh	528	7.00 /ea	224		/ea		/ea		752	984
Stainless Steel Reducer mpt x fpt 1in x 1/2in	15212.050	8.00 ea	33.00 /mh	132	24.00 /ea	192		/ea		/ea		324	382
Stainless Steel Union 1"	15212.060	24.00 ea	33.00 /mh	396	25.00 /ea	600		/ea		/ea		996	1,170
Stainless Steel Reducer mpt x fpt 1/2in x 1/4in	15212.050	4.00 ea	33.00 /mh	66	24.00 /ea	96		/ea		/ea		162	191
Stainless Steel Pipe 1/4"	15212.005	80.00 lf	33.00 /mh	1,320	6.00 /lf	480		/lf		/lf		1,800	2,381
Stainless Steel Pipe 1/2"	15212.005	88.00 lf	33.00 /mh	1,452	6.00 /lf	528		/lf		/lf		1,980	2,619
Stainless Steel 90 Elbow 1/2"	15212.040	8.00 ea	33.00 /mh	132	7.00 /ea	56		/ea		/ea		188	246
Stainless Steel Bushing mpt x fpt 1/2in x 1/4in	15212.015	4.00 ea	33.00 /mh	66	3.00 /ea	12		/ea		/ea		78	107
Stainless Steel Pipe sch 40 304 ss 3/4" drain line from	15212.005	24.00 lf	33.00 /mh	396	8.00 /lf	192		/lf		/lf		588	762
Stainless Steel Nipple 3/4" X 3" drain line	15212.010	4.00 ea	33.00 /mh	66	7.00 /ea	28		/ea		/ea		94	123
Stainless Steel 90 Elbow 3/4" drain line	15212.040	16.00 ea	33.00 /mh	264	7.00 /ea	112		/ea		/ea		376	492
Valve Ball Threaded SS 3/4in drain line	15110.014	4.00 ea	33.00 /mh	132	0.01 /ea	0		/ea		/ea		132	190
Fab Stainless Steel Pipe - 2" - for air vac releif	15233.505	15.00 lf	33.00 /mh	495	/lf			/lf		/lf		495	713
Stainless Steel 90 Elbow 2"	15212.040	6.00 ea	33.00 /mh	99	23.00 /ea	138		/ea		/ea		237	281
Stainless Steel Union 2"	15212.060	1.00 ea	33.00 /mh	17	250.00 /ea	250		/ea		/ea		267	274
Stainless Steel Nipple 2" X 3"	15212.010	4.00 ea	33.00 /mh	66	30.00 /ea	120		/ea		/ea		186	215
Valve Ball Threaded Bronze 1in	15110.014	4.00 ea	33.00 /mh	132	0.01 /ea	0		/ea		/ea		132	190
Stainless Steel Pipe 1" pipe to basin from blow down	15212.005	40.00 lf	33.00 /mh	660	12.00 /lf	480		/lf		/lf		1,140	1,430
Stainless Steel 90 Elbow 1" pipe to basin 23M203 key note 3	15212.040	16.00 ea	33.00 /mh	264	8.00 /ea	128		/ea		/ea		392	508
PS Strut SS 1-5/8 x 1-5/8 pipe to basin for drain	15060.476	16.00 lf	33.00 /mh	158	20.00 /lf	320		/lf		/lf		478	548
PS Pipe Strut Clamp SS 1in for drain	15060.486	16.00 ea	33.00 /mh	158	11.00 /ea	176		/ea		/ea		334	404

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
150-553 Fabricated SS piping for Permeater piping 23M203 & 23M405													
Epoxy Anchor 3/8 x 5in SS 316 for drain	5001.054	32.00 ea	33.00 /mh	53	8.00 /ea	256		/ea		/ea		309	332
Epoxy for Anchors for drain	5001.050	32.00 ea	33.00 /mh	53	5.00 /ea	160		0.00 /ea	0	/ea		213	236
40 SLD Aerated Sludge Holding Tank													
arated sludge hold													
150-553 stainless steel piping to Aerated sludge holing tankblower line 40M201													
Fab Stainless Steel Pipe sch 10 316 ss - 8" - 2' F x PE	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe sch 10 316 ss - 8" - 45 deg ell PE x PE	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe sch 10 316 ss - 8" - 5' 6" PE x PE	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe - 8" - 45 deg ell PE x PE	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe sch 10 316 ss- 8" - 1' PE x PE	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Expansion Joint Flanged Rubber 8"	15112.050	1.00 ea	33.00 /mh	132	2,400.00 /ea	2,400		/ea		/ea		2,532	2,590
Fab Stainless Steel Pipe sch 10 316 ss - 8" - 19' F x PE	15233.505	1.00 ea	33.00 /mh	396	/ea			/ea		/ea		396	570
Fab Stainless Steel Pipe sch 10 316 ss - 8" - 90 PE x PE	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe - 8" - 1' PE x PE	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe - 8" - 90 ell PE x PE	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Fab Stainless Steel Pipe - 8" x 6" ecentric red PE x F	15233.505	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
8" SS romec Coupling	2511.322	1.00 ea	33.00 /mh	66	495.00 /ea	495		/ea		/ea		561	590
PS Special wall Support for 8in SS Pipe -M133	15060.475	4.00 ea	33.00 /mh	528	850.00 /ea	3,400		/ea		/ea		3,928	4,160
PS Expansion Anchor 5/8 x 5in SS	15060.127	15.00 ea	33.00 /mh	50	25.00 /ea	375		/ea		/ea		425	446
PS Special floor Support for 8in SS Pipe - M132	15060.475	1.00 ea	33.00 /mh	132	850.00 /ea	850		/ea		/ea		982	1,040
Insulation Subcontractor 40M201													
Heat Trace 40M201	16000.001	1.00 ls	/ls		/ls			/ls		/ls			
NBG Kit 125# SS 8in	15125.012	4.00 ea	33.00 /mh	132	140.00 /ea	560		/ea		/ea		692	750
400531 Plastic Process Pipe													
01 CIV Civil													
Yard Pipe Yard Pipe													
02605- Addendum 4 Yard Pipe Cleanouts													
DI MJ Compact Wye 4	2511.328	1.00 ea	33.00 /mh	33	326.00 /ea	326		/ea		/ea		359	374
DI MJ Std Wgt 45 4	2511.214	34.00 ea	33.00 /mh	1,122	265.00 /ea	9,010		/ea		/ea		10,132	10,626
PVC C-900 Pipe 4 DR 25	2336.310	240.00 lf	33.00 /mh	792	8.00 /lf	2,016		/lf		/lf		2,808	3,156
DI Pipe 4in. dia FxPE - 6ft. 0in.	15221.030	12.00 ea	33.00 /mh	792	540.00 /ea	6,480		/ea		/ea		7,272	7,620
DI Blind Flange 4" with 1" tap	15221.405	12.00 ea	33.00 /mh	396	250.00 /ea	3,000		/ea		/ea		3,396	3,570
Stainless Steel Nipple 1" x 4"	15212.010	24.00 ea	33.00 /mh	396	20.00 /ea	480		/ea		/ea		876	1,050
Valve - Plug Threaded 1"	2519.160	12.00 ea	33.00 /mh	198	150.00 /ea	1,800		/ea		/ea		1,998	2,085
Hose Adapter SS 3/4 FIP X female Swivel	15220.110	12.00 ea	33.00 /mh	99	64.00 /ea	768		/ea		/ea		867	911
PVC Sch 80 Pipe 4	2336.110	48.00 lf	33.00 /mh	333	10.00 /lf	504		/lf		/lf		837	983
Pressurized Clean out cover (ask abe on Vault)	2327.040	12.00 ea	33.00 /mh	2,376	0.01 /ea	0		/ea		/ea		2,376	3,422
NBG Kit 125# SS 4in with full face gasket	15125.012	12.00 ea	33.00 /mh	198	58.00 /ea	696		/ea		/ea		894	981
3000 psi Thrust Block Concrete	3310.105	14.00 cy	33.00 /mh	924	278.00 /cy	4,087		/cy		/cy		5,011	5,417
Clean Rock 3/4"	2305.050	6.00 cy	/cy		36.00 /ton	350		/cy		/cy		350	350
DI MJ Std Wgt Wye 12x4 restrained	2511.228	3.00 ea	33.00 /mh	198	1,500.00 /ea	4,500		/ea		/ea		4,698	4,785
DI MJ Std Wgt Wye 8x4 restrained	2511.228	3.00 ea	33.00 /mh	149	800.00 /ea	2,400		/ea		/ea		2,549	2,614
DI MJ Std Wgt Wye 6x4 restrained	2511.228	5.00 ea	33.00 /mh	165	550.00 /ea	2,750		/ea		/ea		2,915	2,988
DI MJ Compact Tee 24 restrained	2511.324	2.00 ea	33.00 /mh	330	6,697.00 /ea	13,394		/ea		/ea		13,724	13,869
DI MJ Compact Red 24x12 restrained	2511.320	2.00 ea	33.00 /mh	198	2,200.00 /ea	4,400		/ea		/ea		4,598	4,685
DI MJ Compact Red 12x4 restrained	2511.320	4.00 ea	33.00 /mh	396	520.00 /ea	2,080		/ea		/ea		2,476	2,650
DI MJ Std Wgt Wye 24x12 restrained (dan confirm kepner better)	2511.228	2.00 ea	33.00 /mh	330	18,500.00 /ea	37,000		/ea		/ea		37,330	37,475
Tracer Wire Riser Box	2333.080	17.00 ea	33.00 /mh	561	100.00 /ea	1,700		/ea		/ea		2,261	2,508
Cast Iron Valve Box top	2519.130	7.00 ea	33.00 /mh	58	350.00 /ea	2,450		/ea		/ea		2,508	2,533
Concrete Pad at Valve Box	2333.100	7.00 ea	33.00 /mh	462	50.00 /ea	350		/ea		/ea		812	1,015
02605- Addendum 4 Chem Vault Changes													
Gooseneck Vent at chem vault 4" Galv	15212.005	1.00 ea	33.00 /mh	132	350.00 /ea	350		/ea		/ea		482	540
SS Pipe Support in Chem Vault	15060.475	1.00 ea	33.00 /mh	132	125.00 /ea	125		/ea		/ea		257	315
Piping for Leak detection	15211.203	1.00 ea	33.00 /mh	66	250.00 /ea	250		/ea		/ea		316	345
02605- Addendum #4 IPS Emergency Connection													
DI MJ Std Wgt Tee 6 restrained	2511.224	1.00 ea	33.00 /mh	33	520.00 /ea	520		/ea		/ea		553	568
Valve - Plug MJ 6"	2519.160	1.00 ea	33.00 /mh	66	2,000.00 /ea	2,000		/ea		/ea		2,066	2,095
Valve Stem Extension 6"	2519.100	1.00 ea	33.00 /mh	33	150.00 /ea	150		/ea		/ea		183	198
Valve Box Assembly 6' Bury	2519.130	1.00 ea	33.00 /mh	99	320.00 /ea	320		/ea		/ea		419	463
Concrete Pad at Valve Box	2333.100	1.00 ea	33.00 /mh	66	50.00 /ea	50		/ea		/ea		116	145
Concrete Block for valve	2333.100	1.00 ea	33.00 /mh	66	50.00 /ea	50		/ea		/ea		116	145
DI MJ Std Wgt 45 6 restrained	2511.214	2.00 ea	33.00 /mh	66	471.00 /ea	942		/ea		/ea		1,008	1,037
PVC C-900 Pipe 6 DR 25	2336.310	20.00 lf	33.00 /mh	66	16.50 /lf	347		/lf		/lf		413	442
DI Pipe 6in. dia FxPE - 9ft. 0in.	15221.030	1.00 ea	33.00 /mh	99	900.00 /ea	900		/ea		/ea		999	1,043
DI Flanged Con Red 6x4" restrained	15221.445	1.00 ea	33.00 /mh	33	250.00 /ea	250		/ea		/ea		283	298
Camlock Adapter SS Male x Flange	15220.600	1.00 ea	33.00 /mh	17	550.00 /ea	550		/ea		/ea		567	574
Camlock Adapter SS Female Cap	15220.600	1.00 ea	33.00 /mh	17	550.00 /ea	550		/ea		/ea		567	574
NBG Kit 125# Steel 6in	15125.010	2.00 ea	33.00 /mh	33	16.00 /ea	32		/ea		/ea		65	80
NBG Kit 125# Steel 4in	15125.010	1.00 ea	33.00 /mh	17	20.00 /ea	20		/ea		/ea		37	44
02605-2 24" Central Interceptor Raw Influent Line (MH A to MH 4)													
Trench Excavtion 6- 8'	2333.010	800.00 lf	33.00 /mh	5,280	/lf			/lf		/lf		5,280	7,603
Trench Backfill 6- 8'	2333.020	800.00 lf	33.00 /mh	7,920	/lf			/lf		/lf		7,920	11,405
Trench Box 8' Deep	2333.030	800.00 lf	/lf		/lf			/lf		/lf	9.00	7,200	7,200
Utility Bedding Peastone	2305.200	474.07 cy	/cy		25.00 /ton	18,963		/cy		/cy	7,200	18,963	18,963
Spoils to Waste	2333.060	474.07 cy	33.00 /mh	1,564	/cy			/cy		/cy		1,564	2,253
PVC C-900 Pipe 24 DR-25	2336.310	800.00 lf	33.00 /mh	6,600	225.00 /lf	189,000		/lf		/lf		195,600	198,504
Komatsu PC300 Excavator (232 HP) (L)	1900.136	1.39 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	12,788	3,500.00 /Mnth	4,865	17,653	17,653
John Deere 624 Loader (172 HP) (M)	1900.132	1.39 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	8,340	3,000.00 /Mnth	4,170	12,510	12,510
Water Truck, 4,000 Gallon (L)	1900.210	1.39 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	6,672	1,200.00 /Mnth	1,668	8,340	8,340
Mikasa Jumping Jack Compactor (L)	1900.138	1.39 Mnth	/Mnth		/Mnth			200.00 /Mnth	278	100.00 /Mnth	139	417	417

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
02605-2 24" Central Interceptor Raw Influent Line (MH A to MH 4)													
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	1.39 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	3,475	500.00 /Mnth	695	4,170	4,170
Tracer Wire	2333.080	850.00 lf	33.00 /mh	561	0.40 /lf	374		/lf		/lf		935	1,182
Warning Tape Detectable	2333.080	800.00 lf	33.00 /mh	528	0.08 /lf	64		/lf		/lf		592	824
Polybag 24" and smaller	2333.090	296.00 lf	33.00 /mh	195	2.00 /lf	651		/lf		/lf		847	933
Pot Hole Existing	2333.010	2.00 ea	33.00 /mh	528	/ea			/ea		/ea		528	760
Cross Existing	2333.010	1.00 ea	33.00 /mh	132	100.00 /ea	100		/ea		/ea		232	290
Cut Existing	2333.010	1.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Tie to Existing	2333.010	1.00 ea	33.00 /mh	264	50.00 /ea	50		/ea		/ea		314	430
Plug Existing	2333.010	1.00 ea	33.00 /mh	132	50.00 /ea	50		/ea		/ea		182	240
Support Existing	2333.010	1.00 ea	33.00 /mh	132	1,500.00 /ea	1,500		/ea		/ea		1,632	1,690
Warning Tape Detectable	2333.080	1,600.00 lf	33.00 /mh	1,056	0.08 /lf	128		/lf		/lf		1,184	1,649
Tracer Wire	2333.080	1,600.00 lf	33.00 /mh	1,056	0.40 /lf	704		/lf		/lf		1,760	2,225
Tracer Wire Test Box	2333.080	6.00 ea	33.00 /mh	1,188	100.00 /ea	600		/ea		/ea		1,788	2,311
24 Bell Restrainer F/C900	2336.380	37.00 ea	33.00 /mh	3,663	2,700.00 /ea	99,900		/ea		/ea		103,563	105,175
Demo Existing Pipe at Tie In	2220.605	1.00 ls	33.00 /mh	792	/ls			/ls		/ls		792	1,140
Remodel Invert of Existing MH A	2327.510	1.00 ea	33.00 /mh	792	250.00 /ea	250		/ch		/ea		1,042	1,390
Core Drilled Hole - 28 x 8"	15122.100	1.00 ea	33.00 /mh	66	0.01 /ea	0	2,800	/ea		/ea		2,866	2,895
Grout Pipe in Manhole 24"	2327.090	1.00 ea	33.00 /mh	132	75.00 /ea	75		/ea		/ea		207	265
Link Seal Size LS-425-S	15123.100	23.00 ea	33.00 /mh	114	23.00 /ea	529		/ea		/ea		643	693
Work In Railroad Easment	5650.100	1.00 ls	/ls		/ls			/ls		/ls			
Overhead Power Line	5650.100	1.00 ls	/ls		/ls			/ls		0.00 /ls	0		
Testing - Mandrel	1166.100	1.00 ls	/ls		/ls			/ls		850.00 /ls	850	850	850
Testing Pressure & Leak - Piping	1166.100	3.00 ea	33.00 /mh	792	50.00 /ea	150		50.00 /ea	150	/ea		1,092	1,440
24" Blow up Plugs for Testing	2240.150	2.00 ea	33.00 /mh	66	0.00 /ea	0		1,500.00 /ea	3,000	/ea		3,066	3,095
Protect Existing MH at Tie In	2250.040	1.00 ls	33.00 /mh	33	/ls			/mh		/ls		33	48
Poly Tape	2333.090	10.00 roll	/roll		7.50 /roll	83		/roll		/roll		83	83
Quart of Gasket Lubricant	15150.035	10.00 ea	33.00 /mh		8.00 /ea	80		/ea		/ea		80	80
Grout Pipe in Manhole 24"	2327.090	3.00 ea	33.00 /mh	297	75.00 /ea	225		/ea		/ea		522	653
John Deere 624 Loader (172 HP) (M)	1900.132	1.39 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	8,340	3,000.00 /Mnth	4,170	12,510	12,510
Sakai SV540 Compactor Single Drum 84" (160 HP) (L)	1900.138	1.39 Mnth	/Mnth		/Mnth			3,900.00 /Mnth	5,421	1,650.00 /Mnth	2,294	7,715	7,715
02605-2 30" Combined Influent to Headworks (MH4 - Headworks)													
Testing Pressure & Leak - Piping	1166.100	4.00 ea	33.00 /mh	1,056	50.00 /ea	200		50.00 /ea	200	/ea		1,456	1,921
Trench Excavtion 6- 8'	2333.010	120.00 lf	33.00 /mh	792	/lf			/lf		/lf		792	1,140
Trench Backfill 6- 8'	2333.020	120.00 lf	33.00 /mh	1,188	/lf			/lf		/lf		1,188	1,711
Utility Bedding Peastone	2305.200	90.00 cy	/cy		25.00 /ton	3,600		/cy		/cy		3,600	3,600
Spoils to Waste	2333.060	90.00 cy	33.00 /mh	297	/cy			/cy		/cy		297	428
PVC C-900 Pipe 30 DR-25	2336.310	120.00 lf	33.00 /mh	1,109	350.00 /lf	44,100		/lf		/lf		45,209	45,697
DI RJ Compact Solid Sleeve 30	2511.522	2.00 ea	33.00 /mh	792	7,200.00 /ea	14,400		/ea		/ea		15,192	15,540
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.34 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	3,128	3,500.00 /Mnth	1,190	4,318	4,318
John Deere 624 Loader (172 HP) (M)	1900.132	0.34 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	2,040	3,000.00 /Mnth	1,020	3,060	3,060
Water Truck, 4,000 Gallon (L)	1900.210	0.34 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	1,632	1,200.00 /Mnth	408	2,040	2,040
Mikasa Jumping Jack Compactor (L)	1900.138	0.34 Mnth	/Mnth		/Mnth			200.00 /Mnth	68	100.00 /Mnth	34	102	102
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.34 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	850	500.00 /Mnth	170	1,020	1,020
Tracer Wire	2333.080	160.00 lf	33.00 /mh	106	0.40 /lf	70		/lf		/lf		176	222
Warning Tape Detectable	2333.080	120.00 lf	33.00 /mh	79	0.08 /lf	10		/lf		/lf		89	124
Polybag 30" and smaller	2333.090	50.00 lf	33.00 /mh	33	2.50 /lf	138		/lf		/lf		171	185
Pot Hole Existing	2333.010	2.00 ea	33.00 /mh	528	/ea			/ea		/ea		528	760
Cross Existing	2333.010	2.00 ea	33.00 /mh	264	100.00 /ea	200		/ea		/ea		464	580
Support Existing	2333.010	2.00 ea	33.00 /mh	264	50.00 /ea	100		/ea		/ea		364	480
Tracer Wire Test Box	2333.080	6.00 ea	33.00 /mh	1,188	100.00 /ea	600		/ea		/ea		1,788	2,311
ReRoute Existing Electrical??	2333.010	1.00 ls	33.00 /mh	528	1,500.00 /ls	1,500		/ls		/ls		2,028	2,260
ReRoute Existing 2" Forcemain??	2333.010	1.00 ls	33.00 /mh	528	500.00 /ls	500		/ls		/ls		1,028	1,260
30 Bell Restrainer F/C900	2336.380	4.00 ea	33.00 /mh	528	4,200.00 /ea	16,800		/ea		/ea		17,328	17,560
Testing - Mandrel	1166.100	1.00 ls	/ls		/ls			/ls		850.00 /ls	850	850	850
30" Blow Up Plugs For Testing	2240.150	2.00 ea	33.00 /mh	66	0.00 /ea	0		1,500.00 /ea	3,000	/ea		3,066	3,095
Poly Tape	2333.090	2.00 roll	/roll		7.50 /roll	17		/roll		/roll		17	17
Quart of Gasket Lubricant	15150.035	2.00 ea	33.00 /mh		8.00 /ea	16		/ea		/ea		16	16
DI Pipe Push - Class 150 30	2511.101	40.00 lf	33.00 /mh	370	230.00 /lf	9,292		/lf		/lf		9,662	9,824
DI RJ Compact 45 30	2511.514	2.00 ea	33.00 /mh	792	7,800.00 /ea	15,600		/ea		/ea		16,392	16,740
DI Wall Pipe FLG x PE w/ Weep Ring & Tapped Holes 30in x 1ft 0in long	15221.380	1.00 ea	33.00 /mh	528	5,000.00 /ea	5,000		/ea		/ea		5,528	5,760
NBG Kit 125# 316SS 30in w/ FF EPDM Gasket	15125.012	1.00 ea	33.00 /mh	132	1,950.00 /ea	1,950		/ea		/ea		2,082	2,140
Grout Pipe in Manhole 30"	2327.090	5.00 ea	33.00 /mh	990	100.00 /ea	500		/ea		/ea		1,490	1,926
02605-2 12" North Interceptor (IPS to MH4)													
Testing Pressure & Leak - Piping	1166.100	1.00 ea	33.00 /mh	264	50.00 /ea	50		50.00 /ea	50	/ea		364	480
Trench Excavtion 6- 8'	2333.010	660.00 lf	33.00 /mh	3,267	/lf			/lf		/lf		3,267	4,704
Trench Backfill 6- 8'	2333.020	660.00 lf	33.00 /mh	4,356	/lf			/lf		/lf		4,356	6,273
Trench Box 8' Deep	2333.030	660.00 lf	/lf		/lf			/lf		/lf		9,000	5,940
Utility Bedding Peastone	2305.200	220.00 cy	/cy		25.00 /ton	8,800		/cy		/cy		8,800	8,800
Spoils to Waste	2333.060	220.00 cy	33.00 /mh	726	/cy			/cy		/cy		726	1,045
PVC C-900 Pipe 12 DR-25	2336.310	660.00 lf	33.00 /mh	2,614	57.00 /lf	39,501		/lf		/lf		42,115	43,265
DI RJ Compact 90 12	2511.514	2.00 ea	33.00 /mh	198	930.00 /ea	1,860		/ea		/ea		2,058	2,145
DI RJ Compact 45 12	2511.514	4.00 ea	33.00 /mh	396	850.00 /ea	3,400		/ea		/ea		3,796	3,970
DI RJ Compact 22-1/2 12	2511.514	4.00 ea	33.00 /mh	396	800.00 /ea	3,200		/ea		/ea		3,596	3,770
DI RJ Compact Solid Sleeve Short 12	2511.523	3.00 ea	33.00 /mh	297	800.00 /ea	2,400		/ea		/ea		2,697	2,828
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.70 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	6,440	3,500.00 /Mnth	2,450	8,890	8,890
John Deere 624 Loader (172 HP) (M)	1900.132	0.70 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	4,200	3,000.00 /Mnth	2,100	6,300	6,300
Water Truck, 4,000 Gallon (L)	1900.210	0.70 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	3,360	1,200.00 /Mnth	840	4,200	4,200
Mikasa Jumping Jack Compactor (L)	1900.138	0.70 Mnth	/Mnth		/Mnth			200.00 /Mnth	140	100.00 /Mnth	70	210	210
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.70 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	1,750	500.00 /Mnth	350	2,100	2,100
Tracer Wire	2333.080	680.00 lf	33.00 /mh	449	0.40 /lf	299		/lf		/lf		748	945
Warning Tape Detectable	2333.080	660.00 lf	33.00 /mh	436	0.08 /lf	53		/lf		/lf		488	680
Polybag 12" and Smaller	2333.090	200.00 lf	33.00 /mh	66	1.00 /lf	220		/lf		/lf		286	315

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
02605-2 12" North Interceptor (IPS to MH4)													
Pot Hole Existing	2333.010	1.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Cross Existing	2333.010	1.00 ea	33.00 /mh	132	100.00 /ea	100		/ea		/ea		232	290
Support Existing	2333.010	1.00 ea	33.00 /mh	132	50.00 /ea	50		/ea		/ea		182	240
Tracer Wire Test Box	2333.080	2.00 ea	33.00 /mh	396	100.00 /ea	200		/ea		/ea		596	770
12 Bell Restrainer F/C900	2336.380	33.00 ea	33.00 /mh	2,178	500.00 /ea	16,500		/ea		/ea		18,678	19,636
DI Pipe 12in. dia FxPE - 6ft. 8in.	15221.030	1.00 ea	33.00 /mh	99	1,730.00 /ea	1,730		/ea		/ea		1,829	1,873
DI Pipe 12in. dia FxPE - 4ft. 0in.	15221.030	1.00 ea	33.00 /mh	66	1,150.00 /ea	1,150		/ea		/ea		1,216	1,245
DI Flanged Tee 12"	15221.455	1.00 ea	33.00 /mh	99	2,000.00 /ea	2,000		/ea		/ea		2,099	2,143
Link Seal Size LS-360-S	15123.100	21.00 ea	33.00 /mh	104	23.00 /ea	483		/ea		/ea		587	633
DI Blind Flange 12" w/ 2" Tap for Testing	15221.405	2.00 ea	33.00 /mh	132	475.00 /ea	950		/ea		/ea		1,082	1,140
Grout Pipe in Manhole 12"	2327.090	1.00 ea	33.00 /mh	99	50.00 /ea	50		/ea		/ea		149	193
Poly Tape	2333.090	6.00 roll	/roll		7.50 /roll	50		/roll		/roll		50	50
Quart of Gasket Lubricant	15150.035	6.00 ea	33.00 /mh		8.00 /ea	48		/ea		/ea		48	48
02605-2 8" North Interceptor (IPS to MH4)													
Testing Pressure & Leak - Piping	1166.100	1.00 ea	33.00 /mh	264	50.00 /ea	50		50.00 /ea	50	/ea		364	480
Trench Excavation 6- 8'	2333.010	660.00 lf	33.00 /mh	3,267	/lf			/lf		/lf		3,267	4,704
Trench Backfill 6- 8'	2333.020	660.00 lf	33.00 /mh	4,356	/lf			/lf		/lf		4,356	6,273
Trench Box 8' Deep	2333.030	660.00 lf	/lf		/lf			/lf		9.00 /lf	5,940	5,940	5,940
Utility Bedding Peastone	2305.200	220.00 cy	/cy		25.00 /ton	8,800		/cy		/cy		8,800	8,800
Spoils to Waste	2333.060	220.00 cy	33.00 /mh	726	/cy			/cy		/cy		726	1,045
PVC C-900 Pipe 8 DR-25	2336.310	660.00 lf	33.00 /mh	2,396	27.50 /lf	19,058		/lf		/lf		21,453	22,507
DI RJ Compact 90 8	2511.514	1.00 ea	33.00 /mh	66	520.00 /ea	520		/ea		/ea		586	615
DI RJ Compact 45 8	2511.514	4.00 ea	33.00 /mh	264	480.00 /ea	1,920		/ea		/ea		2,184	2,300
DI RJ Compact 22-1/2 8	2511.514	4.00 ea	33.00 /mh	264	480.00 /ea	1,920		/ea		/ea		2,184	2,300
DI RJ Compact Tee 8	2511.524	1.00 ea	33.00 /mh	66	780.00 /ea	780		/ea		/ea		846	875
DI RJ Compact Solid Sleeve Short 8	2511.523	3.00 ea	33.00 /mh	198	500.00 /ea	1,500		/ea		/ea		1,698	1,785
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.52 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	4,784	3,500.00 /Mnth	1,820	6,604	6,604
John Deere 624 Loader (172 HP) (M)	1900.132	0.52 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	3,120	3,000.00 /Mnth	1,560	4,680	4,680
Water Truck, 4,000 Gallon (L)	1900.210	0.52 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	2,496	1,200.00 /Mnth	624	3,120	3,120
Mikasa Jumping Jack Compactor (L)	1900.138	0.52 Mnth	/Mnth		/Mnth			200.00 /Mnth	104	100.00 /Mnth	52	156	156
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.52 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	1,300	500.00 /Mnth	260	1,560	1,560
Tracer Wire	2333.080	680.00 lf	33.00 /mh	449	0.40 /lf	299		/lf		/lf		748	945
Warning Tape Detectable	2333.080	660.00 lf	33.00 /mh	436	0.08 /lf	53		/lf		/lf		488	680
Polybag 12" and Smaller	2333.090	200.00 lf	33.00 /mh	66	1.00 /lf	220		/lf		/lf		286	315
Pot Hole Existing	2333.010	1.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Cross Existing	2333.010	1.00 ea	33.00 /mh	132	100.00 /ea	100		/ea		/ea		232	290
Support Existing	2333.010	1.00 ea	33.00 /mh	66	50.00 /ea	50		/ea		/ea		116	145
Tracer Wire Test Box	2333.080	2.00 ea	33.00 /mh	396	100.00 /ea	200		/ea		/ea		596	770
Valve - Plug MJ 8"	2519.160	1.00 ea	33.00 /mh	66	2,900.00 /ea	2,900		/ea		/ea		2,966	2,995
Valve Box Assembly 6' Bury	2519.130	1.00 ea	33.00 /mh	99	320.00 /ea	320		/ea		/ea		419	463
Conc Block for Valve	2519.100	1.00 ea	33.00 /mh	33	50.00 /ea	50		/ea		/ea		83	98
Conc Pad for Valve Box	2519.100	1.00 ea	33.00 /mh	66	75.00 /ea	75		/ea		/ea		141	170
Valve Stem Extension	2519.100	1.00 ea	33.00 /mh	33	150.00 /ea	150		/ea		/ea		183	198
8 Bell Restrainer F/C900	2336.380	33.00 ea	33.00 /mh	1,089	260.00 /ea	8,580		/ea		/ea		9,669	10,148
DI Pipe 8in. dia FxPE - 6ft. 8in.	15221.030	1.00 ea	33.00 /mh	99	1,000.00 /ea	1,000		/ea		/ea		1,099	1,143
DI Pipe 8in. dia FxPE - 4ft. 0in.	15221.030	1.00 ea	33.00 /mh	66	800.00 /ea	800		/ea		/ea		866	895
DI Flanged Tee 8"	15221.455	1.00 ea	33.00 /mh	66	650.00 /ea	650		/ea		/ea		716	745
Link Seal Size LS-400-S	15123.100	9.00 ea	33.00 /mh	45	23.00 /ea	207		/ea		/ea		252	271
DI Blind Flange 8" w/ 2" Tap for Testing	15221.405	2.00 ea	33.00 /mh	99	260.00 /ea	520		/ea		/ea		619	663
Grout Pipe in Manhole 8"	2327.090	1.00 ea	33.00 /mh	33	25.00 /ea	25		/ea		/ea		58	73
Poly Tape	2333.090	6.00 roll	/roll		7.50 /roll	50		/roll		/roll		50	50
Quart of Gasket Lubricant	15150.035	6.00 ea	33.00 /mh		8.00 /ea	48		/ea		/ea		48	48
02605-2 4" Temp North Interceptor Line													
Testing Pressure & Leak - Piping	1166.100	1.00 ea	33.00 /mh	264	50.00 /ea	50		50.00 /ea	50	/ea		364	480
Trench Excavation 6- 8'	2333.010	800.00 lf	33.00 /mh	3,960	/lf			/lf		/lf		3,960	5,702
Trench Backfill 6- 8'	2333.020	800.00 lf	33.00 /mh	5,280	/lf			/lf		/lf		5,280	7,603
Utility Bedding Peastone	2305.200	133.33 cy	/cy		25.00 /ton	5,333		/cy		/cy		5,333	5,333
Spoils to Waste	2333.060	133.33 cy	33.00 /mh	440	/cy			/cy		/cy		440	634
PVC C-900 Pipe 4 DR-25	2336.310	420.00 lf	33.00 /mh	1,247	8.00 /lf	3,528		/lf		/lf		4,775	5,324
DI RJ Compact 45 4	2511.514	4.00 ea	33.00 /mh	264	250.00 /ea	1,000		/ea		/ea		1,264	1,380
DI RJ Compact 11-1/4 4	2511.514	2.00 ea	33.00 /mh	132	235.00 /ea	470		/ea		/ea		602	660
DI RJ Compact Red 8x4	2511.520	1.00 ea	33.00 /mh	66	350.00 /ea	350		/ea		/ea		416	445
DI RJ Compact Cap 4	2511.510	1.00 ea	33.00 /mh	33	115.00 /ea	115		/ea		/ea		148	163
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.47 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	4,324	3,500.00 /Mnth	1,645	5,969	5,969
John Deere 624 Loader (172 HP) (M)	1900.132	0.47 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	2,820	3,000.00 /Mnth	1,410	4,230	4,230
Water Truck, 4,000 Gallon (L)	1900.210	0.47 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	2,256	1,200.00 /Mnth	564	2,820	2,820
Mikasa Jumping Jack Compactor (L)	1900.138	0.47 Mnth	/Mnth		/Mnth			200.00 /Mnth	94	100.00 /Mnth	47	141	141
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.47 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	1,175	500.00 /Mnth	235	1,410	1,410
Tracer Wire	2333.080	412.00 lf	33.00 /mh	272	0.40 /lf	181		/lf		/lf		453	573
Warning Tape Detectable	2333.080	400.00 lf	33.00 /mh	264	0.08 /lf	32		/lf		/lf		296	412
Polybag 12" and Smaller	2333.090	20.00 lf	33.00 /mh	7	1.00 /lf	22		/lf		/lf		29	32
Pot Hole Existing	2333.010	2.00 ea	33.00 /mh	528	/ea			/ea		/ea		528	760
Cross Existing	2333.010	2.00 ea	33.00 /mh	132	100.00 /ea	200		/ea		/ea		332	390
Tie to Existing Lagoon	2333.010	1.00 ea	33.00 /mh	264	50.00 /ea	50		/ea		/ea		314	430
Valve - Plug MJ 4"	2519.160	1.00 ea	33.00 /mh	66	2,000.00 /ea	2,000		/ea		/ea		2,066	2,095
Valve Box Assembly 6' Bury	2519.130	1.00 ea	33.00 /mh	99	320.00 /ea	320		/ea		/ea		419	463
Conc Block for Valve	2519.100	1.00 ea	33.00 /mh	33	50.00 /ea	50		/ea		/ea		83	98
Conc Pad for Valve Box	2519.100	1.00 ea	33.00 /mh	66	75.00 /ea	75		/ea		/ea		141	170
Valve Stem Extension	2519.100	1.00 ea	33.00 /mh	33	150.00 /ea	150		/ea		/ea		183	198
4 Bell Restrainer F/C900	2336.380	21.00 ea	33.00 /mh	693	150.00 /ea	3,150		/ea		/ea		3,843	4,148
Demo Pipe 4" and Fittings	2220.605	420.00 lf	33.00 /mh	693	/lf			/lf		/lf		693	998
Poly Tape	2333.090	4.00 roll	/roll		7.50 /roll	33		/roll		/roll		33	33

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
02605-2 4" Temp North Interceptor Line													
Quart of Gasket Lubricant	15150.035	4.00 ea	33.00 /mh		8.00 /ea	32		/ea		/ea		32	32
02605-2 24" SCN (Headworks to Secondary Splitter)													
Testing Pressure & Leak - Piping	1166.100	1.00 ea	33.00 /mh	264	50.00 /ea	50		50.00 /ea	50	/ea		364	480
Trench Excavtion 16-18'	2333.010	240.00 lf	33.00 /mh	2,059	/lf			/lf		/lf		2,059	2,965
Trench Backfill 16-18'	2333.020	240.00 lf	33.00 /mh	2,772	/lf			/lf		/lf		2,772	3,992
Utility Bedding Peastone	2305.200	142.22 cy	/cy		25.00 /ton	5,689		/cy		/cy		5,689	5,689
Spoils to Waste	2333.060	142.22 cy	33.00 /mh	469	/cy			/cy		/cy		469	676
PVC C-900 Pipe 24 DR-25	2336.310	240.00 lf	33.00 /mh	1,980	225.00 /lf	56,700		/lf		/lf		58,680	59,551
DI RJ Compact 90 24	2511.514	1.00 ea	33.00 /mh	264	4,000.00 /ea	4,000		/ea		/ea		4,264	4,380
DI RJ Compact 45 24	2511.514	3.00 ea	33.00 /mh	792	3,100.00 /ea	9,300		/ea		/ea		10,092	10,440
DI RJ Compact 11-1/4 24	2511.514	2.00 ea	33.00 /mh	528	2,900.00 /ea	5,800		/ea		/ea		6,328	6,560
DI RJ Compact Eccentric Red 30x24	2511.520	1.00 ea	33.00 /mh	264	5,000.00 /ea	5,000		/ea		/ea		5,264	5,380
DI RJ Compact Solid Sleeve 24	2511.522	4.00 ea	33.00 /mh	1,056	2,850.00 /ea	11,400		/ea		/ea		12,456	12,921
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.56 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	5,152	3,500.00 /Mnth	1,960	7,112	7,112
John Deere 624 Loader (172 HP) (M)	1900.132	0.56 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	3,360	3,000.00 /Mnth	1,680	5,040	5,040
Water Truck, 4,000 Gallon (L)	1900.210	0.56 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	2,688	1,200.00 /Mnth	672	3,360	3,360
Mikasa Jumping Jack Compactor (L)	1900.138	0.56 Mnth	/Mnth		/Mnth			200.00 /Mnth	112	100.00 /Mnth	56	168	168
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.56 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	1,400	500.00 /Mnth	280	1,680	1,680
Tracer Wire	2333.080	260.00 lf	33.00 /mh	172	0.40 /lf	114		/lf		/lf		286	362
Warning Tape Detectable	2333.080	240.00 lf	33.00 /mh	158	0.08 /lf	19		/lf		/lf		178	247
Polybag 24" and smaller	2333.090	150.00 lf	33.00 /mh	99	2.00 /lf	330		/lf		/lf		429	473
Tracer Wire Test Box	2333.080	2.00 ea	33.00 /mh	396	100.00 /ea	200		/ea		/ea		596	770
24 Bell Restrainer F/C900	2336.380	12.00 ea	33.00 /mh	1,188	2,700.00 /ea	32,400		/ea		/ea		33,588	34,111
DI Wall Pipe FLG x PE w/ Weep Ring & Tapped Holes 30in x 1ft 0in long	15221.380	1.00 ea	33.00 /mh	528	5,000.00 /ea	5,000		/ea		/ea		5,528	5,760
DI Pipe 30in. dia FxPE - 8ft. 0in.	15221.030	1.00 ea	33.00 /mh	264	7,000.00 /ea	7,000		/ea		/ea		7,264	7,380
NBG Kit 125# 316SS 30in w/ FF EPDM Gasket	15125.012	1.00 ea	33.00 /mh	132	1,950.00 /ea	1,950		/ea		/ea		2,082	2,140
DI Pipe Push - Class 200 24	2511.101	20.00 lf	33.00 /mh	165	135.00 /lf	2,727		/lf		/lf		2,892	2,965
DI Wall Pipe PE x PE w/ Weep Ring 24in x 6ft 0in long	15221.348	1.00 ea	33.00 /mh	528	3,600.00 /ea	3,600		/ea		/ea		4,128	4,360
Poly Tape	2333.090	3.00 roll	/roll		7.50 /roll	25		/roll		/roll		25	25
Quart of Gasket Lubricant	15150.035	3.00 ea	33.00 /mh		8.00 /ea	24		/ea		/ea		24	24
DI MJ Compact Cap 24 w/ 2" Tap for Testing	2511.310	1.00 ea	33.00 /mh	198	1,714.00 /ea	1,714		/ea		/ea		1,912	1,999
DI MJ Plug 30 w/ 2" Tap for Testing	2511.218	1.00 ea	33.00 /mh	264	3,500.00 /ea	3,500		/ea		/ea		3,764	3,880
Dewatering Pumps & Hoses	2240.050	1.00 ls	/ls		/ls			/ls		/ls			
Trench Stabilization Rock	2305.050	36.00 cy	/cy		36.00 /ton	2,430		/cy		/cy		2,430	2,430
02605-2 20" SCN (Headworks to EQ Basin)													
Testing Pressure & Leak - Piping	1166.100	1.00 ea	33.00 /mh	264	50.00 /ea	50		50.00 /ea	50	/ea		364	480
Trench Excavtion 8-10'	2333.010	160.00 lf	33.00 /mh	845	/lf			/lf		/lf		845	1,217
Trench Backfill 8-10'	2333.020	160.00 lf	33.00 /mh	1,109	/lf			/lf		/lf		1,109	1,597
Utility Bedding Peastone	2305.200	94.82 cy	/cy		25.00 /ton	3,793		/cy		/cy		3,793	3,793
Spoils to Waste	2333.060	94.82 cy	33.00 /mh	313	/cy			/cy		/cy		313	451
PVC C-900 Pipe 20 DR-25	2336.310	160.00 lf	33.00 /mh	1,162	155.00 /lf	26,040		/lf		/lf		27,202	27,713
DI RJ Compact 90 20	2511.514	1.00 ea	33.00 /mh	165	3,000.00 /ea	3,000		/ea		/ea		3,165	3,238
DI RJ Compact 45 20	2511.514	2.00 ea	33.00 /mh	330	2,300.00 /ea	4,600		/ea		/ea		4,930	5,075
DI RJ Compact 11-1/4 20	2511.514	2.00 ea	33.00 /mh	330	2,300.00 /ea	4,600		/ea		/ea		4,930	5,075
DI RJ Compact Eccentric Red 30x20	2511.520	1.00 ea	33.00 /mh	165	5,500.00 /ea	5,500		/ea		/ea		5,665	5,738
DI RJ Compact Solid Sleeve 20	2511.522	4.00 ea	33.00 /mh	660	2,300.00 /ea	9,200		/ea		/ea		9,860	10,150
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.30 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	2,760	3,500.00 /Mnth	1,050	3,810	3,810
John Deere 624 Loader (172 HP) (M)	1900.132	0.30 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	1,800	3,000.00 /Mnth	900	2,700	2,700
Water Truck, 4,000 Gallon (L)	1900.210	0.30 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	1,440	1,200.00 /Mnth	360	1,800	1,800
Mikasa Jumping Jack Compactor (L)	1900.138	0.30 Mnth	/Mnth		/Mnth			200.00 /Mnth	60	100.00 /Mnth	30	90	90
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.30 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	750	500.00 /Mnth	150	900	900
Tracer Wire	2333.080	180.00 lf	33.00 /mh	119	0.40 /lf	79		/lf		/lf		198	250
Warning Tape Detectable	2333.080	160.00 lf	33.00 /mh	106	0.08 /lf	13		/lf		/lf		118	165
Polybag 24" and smaller	2333.090	100.00 lf	33.00 /mh	33	2.00 /lf	220		/lf		/lf		253	268
Tracer Wire Test Box	2333.080	2.00 ea	33.00 /mh	396	100.00 /ea	200		/ea		/ea		596	770
20 Bell Restrainer F/C900	2336.380	8.00 ea	33.00 /mh	528	1,700.00 /ea	13,600		/ea		/ea		14,128	14,360
DI Wall Pipe FLG x PE w/ Weep Ring & Tapped Holes 30in x 1ft 0in long	15221.380	1.00 ea	33.00 /mh	528	5,000.00 /ea	5,000		/ea		/ea		5,528	5,760
DI Pipe 30in. dia FxPE - 8ft. 0in.	15221.030	1.00 ea	33.00 /mh	198	7,000.00 /ea	7,000		/ea		/ea		7,198	7,285
NBG Kit 125# 316SS 30in w/ FF EPDM Gasket	15125.012	1.00 ea	33.00 /mh	132	1,950.00 /ea	1,950		/ea		/ea		2,082	2,140
Poly Tape	2333.090	2.00 roll	/roll		7.50 /roll	17		/roll		/roll		17	17
Quart of Gasket Lubricant	15150.035	2.00 ea	33.00 /mh		8.00 /ea	16		/ea		/ea		16	16
Flow Fill at RAS Crossing	3310.105	2.00 cy	33.00 /mh	66	205.00 /cy	431		/cy		/cy		497	526
DI MJ Cap 30 w/ 2" Tap for Testing	2511.210	1.00 ea	33.00 /mh	132	4,000.00 /ea	4,000		/ea		/ea		4,132	4,190
DI Wall Pipe FLG x FLG w/ Weep Ring & Tapped Holes 20in x 2ft 0in long	15221.372	1.00 ea	33.00 /mh	528	4,400.00 /ea	4,400		/ea		/ea		4,928	5,160
DI Pipe 20in. dia FxPE - 5ft. 0in.	15221.030	1.00 ea	33.00 /mh	132	2,950.00 /ea	2,950		/ea		/ea		3,082	3,140
NBG Kit 125# 316SS 20in w/ FF EPDM Gasket	15125.012	1.00 ea	33.00 /mh	66	725.00 /ea	725		/ea		/ea		791	820
DI Blind Flange 20" w/ 2" Tap for Testing	15221.405	1.00 ea	33.00 /mh	132	1,500.00 /ea	1,500		/ea		/ea		1,632	1,690
Trench Stabilization Rock	2305.050	24.00 cy	/cy		36.00 /ton	1,620		/cy		/cy		1,620	1,620
Dewatering Pumps & Hoses	2240.050	1.00 ls	/ls		/ls			/ls		/ls			
02605-2 12" SCN (EQ Basin to Secondary Splitter)													
Testing Pressure & Leak - Piping	1166.100	1.00 ea	33.00 /mh	264	50.00 /ea	50		50.00 /ea	50	/ea		364	480
Trench Excavtion 16-18'	2333.010	60.00 lf	33.00 /mh	515	/lf			/lf		/lf		515	741
Trench Backfill 16-18'	2333.020	60.00 lf	33.00 /mh	693	/lf			/lf		/lf		693	998
Utility Bedding Peastone	2305.200	20.00 cy	/cy		25.00 /ton	800		/cy		/cy		800	800
Spoils to Waste	2333.060	20.00 cy	33.00 /mh	66	/cy			/cy		/cy		66	95
PVC C-900 Pipe 12 DR-25	2336.310	60.00 lf	33.00 /mh	238	57.00 /lf	3,591		/lf		/lf		3,829	3,933
DI RJ Compact 90 12	2511.514	2.00 ea	33.00 /mh	132	930.00 /ea	1,860		/ea		/ea		1,992	2,050
DI RJ Compact Cap 12 w/ 2" Tap for pressure testing	2511.510	2.00 ea	33.00 /mh	132	415.00 /ea	830		/ea		/ea		962	1,020
DI RJ Compact Solid Sleeve Short 12	2511.523	3.00 ea	33.00 /mh	198	800.00 /ea	2,400		/ea		/ea		2,598	2,685
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.12 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	1,104	3,500.00 /Mnth	420	1,524	1,524
John Deere 624 Loader (172 HP) (M)	1900.132	0.12 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	720	3,000.00 /Mnth	360	1,080	1,080
Water Truck, 4,000 Gallon (L)	1900.210	0.12 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	576	1,200.00 /Mnth	144	720	720

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
02605-2 12" SCN (EQ Basin to Secondary Splitter)													
Mikasa Jumping Jack Compactor (L)	1900.138	0.12 Mnth	/Mnth		/Mnth			200.00 /Mnth	24	100.00 /Mnth	12	36	36
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.12 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	300	500.00 /Mnth	60	360	360
Tracer Wire	2333.080	100.00 lf	33.00 /mh	66	0.40 /lf	44		/lf		/lf		110	139
Warning Tape Detectable	2333.080	60.00 lf	33.00 /mh	40	0.08 /lf	5		/lf		/lf		44	62
Polybag 12" and Smaller	2333.090	60.00 lf	33.00 /mh	20	1.00 /lf	66		/lf		/lf		86	95
Tracer Wire Test Box	2333.080	2.00 ea	33.00 /mh	396	100.00 /ea	200		/ea		/ea		596	770
12 Bell Restrainer F/C900	2336.380	3.00 ea	33.00 /mh	99	500.00 /ea	1,500		/ea		/ea		1,599	1,643
Dewatering Pumps & Hoses													
DI Pipe Push - Class 350 12	2511.101	20.00 lf	33.00 /mh	79	58.00 /lf	1,172		/lf		/lf		1,251	1,286
DI Wall Pipe PE x PE w/ Weep Ring 12in x 4ft 0in long	15221.348	1.00 ea	33.00 /mh	264	1,200.00 /ea	1,200		/ea		/ea		1,464	1,580
DI Pipe 12in. dia FxPE - 13ft. 0in.	15221.030	1.00 ea	33.00 /mh	132	2,740.00 /ea	2,740		/ea		/ea		2,872	2,930
Poly Tape	2333.090	1.00 roll	/roll		7.50 /roll	8		/roll		/roll		8	8
Quart of Gasket Lubricant	15150.035	1.00 ea	33.00 /mh		8.00 /ea	8		/ea		/ea		8	8
Trench Stabilization Rock	2305.050	10.00 cy	/cy		36.00 /ton	675		/cy		/cy		675	675
02605-2 36" ML (Process Basin to MBR)													
Testing Pressure & Leak - Piping	1166.100	1.00 ea	33.00 /mh	264	50.00 /ea	50		50.00 /ea	50	/ea		364	480
Trench Excavtion 10-12'	2333.010	100.00 lf	33.00 /mh	561	/lf			/lf		/lf		561	808
Trench Backfill 10-12'	2333.020	100.00 lf	33.00 /mh	726	/lf			/lf		/lf		726	1,045
Utility Bedding Peastone	2305.200	92.59 cy	/cy		25.00 /ton	3,704		/cy		/cy		3,704	3,704
Spoils to Waste	2333.060	92.59 cy	33.00 /mh	306	/cy			/cy		/cy		306	440
PVC C-900 Pipe 36 DR-25	2336.310	100.00 lf	33.00 /mh	924	500.00 /lf	52,500		/lf		/lf		53,424	53,831
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.26 Mnth	/Mnth		/Mnth		9,200.00 /Mnth	2,392	3,500.00 /Mnth	910	3,302	3,302	3,302
DI RJ Compact Solid Sleeve 30	2511.522	4.00 ea	33.00 /mh	1,584	7,200.00 /ea	28,800		/ea		/ea		30,384	31,081
John Deere 624 Loader (172 HP) (M)	1900.132	0.26 Mnth	/Mnth		/Mnth		6,000.00 /Mnth	1,560	3,000.00 /Mnth	780	2,340	2,340	2,340
Water Truck, 4,000 Gallon (L)	1900.210	0.26 Mnth	/Mnth		/Mnth		4,800.00 /Mnth	1,248	1,200.00 /Mnth	312	1,560	1,560	1,560
Mikasa Jumping Jack Compactor (L)	1900.138	0.26 Mnth	/Mnth		/Mnth		2,000.00 /Mnth	52	100.00 /Mnth	26	78	78	78
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.26 Mnth	/Mnth		/Mnth		2,500.00 /Mnth	650	500.00 /Mnth	130	780	780	780
Tracer Wire	2333.080	130.00 lf	33.00 /mh	86	0.40 /lf	57		/lf		/lf		143	181
Warning Tape Detectable	2333.080	100.00 lf	33.00 /mh	66	0.08 /lf	8		/lf		/lf		74	103
Polybag 36" and smaller	2333.090	40.00 lf	33.00 /mh	13	3.50 /lf	154		/lf		/lf		167	173
Tracer Wire Test Box	2333.080	2.00 ea	33.00 /mh	396	100.00 /ea	200		/ea		/ea		596	770
36 Bell Restrainer F/C900	2336.380	5.00 ea	33.00 /mh	990	5,200.00 /ea	26,000		/ea		/ea		26,990	27,426
DI Wall Pipe MJ x PE w/ Weep Ring & Tapped Holes 36in x 1ft 6in long	15221.388	1.00 ea	33.00 /mh	792	10,000.00 /ea	10,000		/ea		/ea		10,792	11,140
DI Wall Pipe MJ x PE w/ Weep Ring & Tapped Holes 30in x 2ft 0in long	15221.388	1.00 ea	33.00 /mh	660	7,900.00 /ea	7,900		/ea		/ea		8,560	8,850
36" Blow Up Plugs for Testing	2240.150	2.00 ea	33.00 /mh	66	0.00 /ea	0	1,500.00 /ea	3,000		/ea		3,066	3,095
Trench Stabilization Rock	2305.050	20.00 cy	/cy		36.00 /ton	1,350		/cy		/cy		1,350	1,350
Poly Tape	2333.090	2.00 roll	/roll		7.50 /roll	17		/roll		/roll		17	17
Quart of Gasket Lubricant	15150.035	4.00 ea	33.00 /mh		8.00 /ea	32		/ea		/ea		32	32
02605-2 24" TE (MBR to Outfall)													
Testing Pressure & Leak - Piping	1166.100	3.00 ea	33.00 /mh	792	50.00 /ea	150		50.00 /ea	150	/ea		1,092	1,440
Trench Excavtion 6- 8'	2333.010	2,200.00 lf	33.00 /mh	18,150	/lf			/lf		/lf		18,150	26,136
Trench Backfill 6- 8'	2333.020	2,200.00 lf	33.00 /mh	25,410	/lf			/lf		/lf		25,410	36,590
Trench Box 8' Deep	2333.030	2,200.00 lf	/lf		/lf			/lf		/lf		19,800	19,800
Utility Bedding Peastone	2305.200	1,303.70 cy	/cy		25.00 /ton	52,148		/cy		/cy		52,148	52,148
Spoils to Waste	2333.060	1,303.70 cy	33.00 /mh	4,302	/cy			/cy		/cy		4,302	6,195
PVC C-900 Pipe 24 DR-25	2336.310	2,200.00 lf	33.00 /mh	14,520	225.00 /lf	519,750		/lf		/lf		534,270	540,659
DI RJ Compact 90 24	2511.514	2.00 ea	33.00 /mh	396	4,000.00 /ea	8,000		/ea		/ea		8,396	8,570
DI RJ Compact 45 4	2511.514	8.00 ea	33.00 /mh	264	250.00 /ea	2,000		/ea		/ea		2,264	2,380
DI RJ Compact 45 24	2511.514	2.00 ea	33.00 /mh	396	3,100.00 /ea	6,200		/ea		/ea		6,596	6,770
DI RJ Compact 11-¼ 24	2511.514	3.00 ea	33.00 /mh	594	2,900.00 /ea	8,700		/ea		/ea		9,294	9,555
DI RJ Compact Wye 24x12	2511.528	6.00 ea	33.00 /mh	1,188	18,500.00 /ea	111,000		/ea		/ea		112,188	112,711
DI RJ Compact Red 12x4	2511.520	6.00 ea	33.00 /mh	594	550.00 /ea	3,300		/ea		/ea		3,894	4,155
DI RJ Compact Solid Sleeve 24	2511.522	4.00 ea	33.00 /mh	792	2,850.00 /ea	11,400		/ea		/ea		12,192	12,540
Komatsu PC300 Excavator (232 HP) (L)	1900.136	3.00 Mnth	/Mnth		/Mnth		9,200.00 /Mnth	27,600	3,500.00 /Mnth	10,500	38,100	38,100	38,100
John Deere 624 Loader (172 HP) (M)	1900.132	3.00 Mnth	/Mnth		/Mnth		6,000.00 /Mnth	18,000	3,000.00 /Mnth	9,000	27,000	27,000	27,000
Water Truck, 4,000 Gallon (L)	1900.210	1.50 Mnth	/Mnth		/Mnth		4,800.00 /Mnth	7,200	1,200.00 /Mnth	1,800	9,000	9,000	9,000
Mikasa Jumping Jack Compactor (L)	1900.138	3.00 Mnth	/Mnth		/Mnth		200.00 /Mnth	600	100.00 /Mnth	300	900	900	900
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	3.00 Mnth	/Mnth		/Mnth		2,500.00 /Mnth	7,500	500.00 /Mnth	1,500	9,000	9,000	9,000
Tracer Wire	2333.080	2,220.00 lf	33.00 /mh	1,465	0.40 /lf	977		/lf		/lf		2,442	3,087
Warning Tape Detectable	2333.080	2,200.00 lf	33.00 /mh	1,452	0.08 /lf	176		/lf		/lf		1,628	2,267
3500 psi Thrust Block Concrete	3310.105	6.00 cy	33.00 /mh	594	278.00 /cy	1,751		/cy		/cy		2,345	2,607
Polybag 24" and smaller	2333.090	600.00 lf	33.00 /mh	198	2.00 /lf	1,320		/lf		/lf		1,518	1,605
Pot Hole Existing	2333.010	5.00 ea	33.00 /mh	1,320	/ea			/ea		/ea		1,320	1,901
Cross Existing	2333.010	5.00 ea	33.00 /mh	660	100.00 /ea	500		/ea		/ea		1,160	1,450
Support Existing	2333.010	5.00 ea	33.00 /mh	660	50.00 /ea	250		/ea		/ea		910	1,200
Tracer Wire Test Box	2333.080	2.00 ea	33.00 /mh	396	100.00 /ea	200		/ea		/ea		596	770
24 Bell Restrainer F/C900	2336.380	110.00 ea	33.00 /mh	10,890	2,700.00 /ea	297,000		/ea		/ea		307,890	312,682
DI Pipe Push - Class 200 24	2511.101	40.00 lf	33.00 /mh	330	135.00 /lf	5,454		/lf		/lf		5,784	5,929
Sleeve w/Ring SS 28" x 18"	15121.250	1.00 ea	33.00 /mh	528	4,400.00 /ea	4,400		/ea		/ea		4,928	5,160
Link Seal Size LS-425-S	15123.100	23.00 ea	33.00 /mh	114	23.00 /ea	529		/ea		/ea		643	693
DI Pipe 24in. dia FxPE - 6ft. 0in.	15221.030	2.00 ea	33.00 /mh	264	3,800.00 /ea	7,600		/ea		/ea		7,864	7,980
DI Pipe 4in. dia FxPE - 4ft. 0in.	15221.030	6.00 ea	33.00 /mh	396	450.00 /ea	2,700		/ea		/ea		3,096	3,270
DI Blind Flange 4" w/ 1" Tap	15221.405	6.00 ea	33.00 /mh	198	200.00 /ea	1,200		/ea		/ea		1,398	1,485
NBG Kit 125# 316SS 4in w/ FF EPDM Gasket	15125.012	6.00 ea	33.00 /mh	198	80.00 /ea	480		/ea		/ea		678	765
Stainless Steel Nipple 1" x 4"	15212.010	12.00 ea	33.00 /mh	99	20.00 /ea	240		/ea		/ea		339	383
Valve Plug Threaded 150# 1"	15110.416	6.00 ea	33.00 /mh	59	150.00 /ea	900		/ea		/ea		959	986
Hose Adapter SS 3/4" FIP x Female GH Swivel	15220.110	6.00 ea	33.00 /mh	42	64.00 /ea	384		/ea		/ea		426	444
PVC Sch 80 PIPE 4" PE	15211.203	20.00 lf	33.00 /mh	139	9.00 /lf	180		/lf		/lf		319	380
Trench Stabilization Rock	2305.050	100.00 cy	/cy		36.00 /ton	6,750		/cy		/cy		6,750	6,750
Dewatering Pumps & Hoses													
Flow Fill at crossings	3310.105	4.00 cy	33.00 /mh	264	205.00 /cy	861		/cy		/cy		1,125	1,241
Overhead Power Line sleeve and hold pole	5650.100	1.00 ls	/ls		/ls		75,000	/ls		0.00 /ls	0	75,000	75,000

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
02605-2 24" TE (MBR to Outfall)													
Komatsu PC300 Excavator (232 HP) (L)	1900.136	1.00 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	9,200	3,500.00 /Mnth	3,500	12,700	12,700
Poly Tape	2333.090	28.00 roll	/roll		7.50 /roll	231						231	231
Quart of Gasket Lubricant	15150.035	28.00 ea	33.00 /mh		8.00 /ea	224						224	224
DI MJ Compact Cap 24 w/ 2" Tap for Pressure Testing	2511.310	2.00 ea	33.00 /mh	264	1,714.00 /ea	3,428						3,692	3,808
Abandon or Demo Existing Effluent Line???	2327.510	1.00 ls	33.00 /mh	792	250.00 /ls	250						1,042	1,390
Temp Security/Safety Fence	2370.150	1,800.00 lf	33.00 /mh	1,188	1.00 /lf	1,980						3,168	3,691
Safety Fence Steel Tee Post 5'	2370.150	360.00 ea	33.00 /mh	2,376	7.00 /ea	2,772						5,148	6,193
Pressurized Cleanout Cover (Det C132)	2327.120	6.00 ea	33.00 /mh	792	0.01 /ea	0						792	1,141
Import Fill Stone 3/4"	2305.100	3.00 cy	/cy		36.00 /ton	173						173	173
Sakai SV540 Compactor Single Drum 84" (160 HP) (L)	1900.138	3.00 Mnth	/Mnth		/Mnth			3,900.00 /Mnth	11,700	1,650.00 /Mnth	4,950	16,650	16,650
02605-2 24" RAS (MBR To Secondary Splitter)													
Testing Pressure & Leak - Piping	1166.100	1.00 ea	33.00 /mh	264	50.00 /ea	50		50.00 /ea	50			364	480
Trench Excavtion 12-14'	2333.010	620.00 lf	33.00 /mh	4,092	/lf			/lf				4,092	5,892
Trench Backfill 12-14'	2333.020	620.00 lf	33.00 /mh	5,115	/lf			/lf				5,115	7,366
Utility Bedding Peastone	2305.200	367.41 cy	/cy		25.00 /ton	14,696		/cy				14,696	14,696
Spoils to Waste	2333.060	367.41 cy	33.00 /mh	1,212	/cy			/cy				1,212	1,746
PVC C-900 Pipe 24 DR-25	2336.310	620.00 lf	33.00 /mh	5,115	225.00 /lf	146,475		/lf				151,590	153,841
DI RJ Compact 90 24	2511.514	5.00 ea	33.00 /mh	1,320	4,000.00 /ea	20,000		/ea				21,320	21,901
DI RJ Compact 45 24	2511.514	1.00 ea	33.00 /mh	264	3,100.00 /ea	3,100		/ea				3,364	3,480
DI RJ Compact Solid Sleeve 24	2511.522	4.00 ea	33.00 /mh	1,056	2,850.00 /ea	11,400		/ea				12,456	12,921
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.75 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	6,900	3,500.00 /Mnth	2,625	9,525	9,525
John Deere 624 Loader (172 HP) (M)	1900.132	0.75 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	4,500	3,000.00 /Mnth	2,250	6,750	6,750
Water Truck, 4,000 Gallon (L)	1900.210	0.75 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	3,600	1,200.00 /Mnth	900	4,500	4,500
Mikasa Jumping Jack Compactor (L)	1900.138	0.75 Mnth	/Mnth		/Mnth			200.00 /Mnth	150	100.00 /Mnth	75	225	225
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.75 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	1,875	500.00 /Mnth	375	2,250	2,250
Tracer Wire	2333.080	680.00 lf	33.00 /mh	449	0.40 /lf	299		/lf				748	945
Warning Tape Detectable	2333.080	620.00 lf	33.00 /mh	409	0.08 /lf	50		/lf				459	639
Polybag 24" and smaller	2333.090	100.00 lf	33.00 /mh	33	2.00 /lf	220		/lf				253	268
Tracer Wire Test Box	2333.080	2.00 ea	33.00 /mh	396	100.00 /ea	200		/ea				596	770
24 Bell Restrainer F/C900	2336.380	31.00 ea	33.00 /mh	2,046	2,700.00 /ea	83,700		/ea				85,746	86,646
DI Pipe Push - Class 200 24	2511.101	60.00 lf	33.00 /mh	495	135.00 /lf	8,181		/lf				8,676	8,894
DI Wall Pipe PE x PE w/ Weep Ring 24in x 6ft 0in long	15221.348	1.00 ea	33.00 /mh	528	3,600.00 /ea	3,600		/ea				4,128	4,360
DI Wall Pipe FLG x PE w/ Weep Ring 24in x 6ft 0in long	15221.336	1.00 ea	33.00 /mh	528	4,650.00 /ea	4,650		/ea				5,178	5,410
Sleeve w/Ring SS 28" x 18"	15121.250	1.00 ea	33.00 /mh	396	4,400.00 /ea	4,400		/ea				4,796	4,970
Link Seal Size LS-425-S	15123.100	23.00 ea	33.00 /mh	114	23.00 /ea	529		/ea				643	693
Dewatering Pumps & Hoses													
Trench Stabilization Rock	2305.050	100.00 cy	/cy		36.00 /ton	6,750		/cy				6,750	6,750
Poly Tape	2333.090	8.00 roll	/roll		7.50 /roll	66		/roll				66	66
Quart of Gasket Lubricant	15150.035	8.00 ea	33.00 /mh		8.00 /ea	64		/ea				64	64
Flow Fill at Pipe Crossings	3310.105	6.00 cy	33.00 /mh	198	205.00 /cy	1,292		/cy				1,490	1,577
02605-2 18" RAS (Secondary Splitter to Anoxic 3)													
Testing Pressure & Leak - Piping	1166.100	1.00 ea	33.00 /mh	264	50.00 /ea	50		50.00 /ea	50			364	480
Trench Excavtion 8-10'	2333.010	70.00 lf	33.00 /mh	370	/lf			/lf				370	532
Trench Backfill 8-10'	2333.020	70.00 lf	33.00 /mh	485	/lf			/lf				485	699
Utility Bedding Peastone	2305.200	23.33 cy	/cy		25.00 /ton	933		/cy				933	933
Spoils to Waste	2333.060	23.33 cy	33.00 /mh	77	/cy			/cy				77	111
PVC C-900 Pipe 18 DR-25	2336.310	60.00 lf	33.00 /mh	356	130.00 /lf	8,190		/lf				8,546	8,703
DI RJ Compact 90 18	2511.514	1.00 ea	33.00 /mh	132	2,200.00 /ea	2,200		/ea				2,332	2,390
DI RJ Compact Solid Sleeve 18	2511.522	4.00 ea	33.00 /mh	528	1,900.00 /ea	7,600		/ea				8,128	8,360
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.13 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	1,196	3,500.00 /Mnth	455	1,651	1,651
John Deere 624 Loader (172 HP) (M)	1900.132	0.13 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	780	3,000.00 /Mnth	390	1,170	1,170
Water Truck, 4,000 Gallon (L)	1900.210	0.13 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	624	1,200.00 /Mnth	156	780	780
Mikasa Jumping Jack Compactor (L)	1900.138	0.13 Mnth	/Mnth		/Mnth			200.00 /Mnth	26	100.00 /Mnth	13	39	39
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.13 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	325	500.00 /Mnth	65	390	390
Tracer Wire	2333.080	90.00 lf	33.00 /mh	59	0.40 /lf	40		/lf				99	125
Warning Tape Detectable	2333.080	70.00 lf	33.00 /mh	46	0.08 /lf	6		/lf				52	72
Polybag 18" and smaller	2333.090	70.00 lf	33.00 /mh	23	2.00 /lf	154		/lf				177	187
Tracer Wire Test Box	2333.080	2.00 ea	33.00 /mh	396	100.00 /ea	200		/ea				596	770
18 Bell Restrainer F/C900	2336.380	3.00 ea	33.00 /mh	149	1,220.00 /ea	3,660		/ea				3,809	3,874
DI Pipe Push - Class 250 18	2511.101	20.00 lf	33.00 /mh	119	95.00 /lf	1,919		/lf				2,038	2,090
DI Wall Pipe MJ x PE w/ Weep Ring & Tapped Holes 18in x 1ft 0in long	15221.388	1.00 ea	33.00 /mh	396	2,900.00 /ea	2,900		/ea				3,296	3,470
DI Wall Pipe FLG x MJ w/ Weep Ring & Tapped Holes 18in x 1ft 8in long	15221.376	1.00 ea	33.00 /mh	396	4,400.00 /ea	4,400		/ea				4,796	4,970
Dewatering Pumps & Hoses													
Trench Stabilization Rock	2305.050	10.00 cy	/cy		36.00 /ton	675		/cy				675	675
Poly Tape	2333.090	1.00 roll	/roll		7.50 /roll	8		/roll				8	8
Quart of Gasket Lubricant	15150.035	1.00 ea	33.00 /mh		8.00 /ea	8		/ea				8	8
02605-2 18" RAS (Secondary Splitter to Anoxic 2)													
Testing Pressure & Leak - Piping	1166.100	1.00 ea	33.00 /mh	264	50.00 /ea	50		50.00 /ea	50			364	480
Trench Excavtion 8-10'	2333.010	20.00 lf	33.00 /mh	106	/lf			/lf				106	152
Trench Backfill 8-10'	2333.020	20.00 lf	33.00 /mh	139	/lf			/lf				139	200
Utility Bedding Peastone	2305.200	6.67 cy	/cy		25.00 /ton	267		/cy				267	267
Spoils to Waste	2333.060	6.67 cy	33.00 /mh	22	/cy			/cy				22	32
PVC C-900 Pipe 18 DR-25	2336.310	20.00 lf	33.00 /mh	119	130.00 /lf	2,730		/lf				2,849	2,901
DI RJ Compact 90 18	2511.514	1.00 ea	33.00 /mh	132	2,200.00 /ea	2,200		/ea				2,332	2,390
DI RJ Compact Solid Sleeve 18	2511.522	4.00 ea	33.00 /mh	528	1,900.00 /ea	7,600		/ea				8,128	8,360
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.08 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	736	3,500.00 /Mnth	280	1,016	1,016
John Deere 624 Loader (172 HP) (M)	1900.132	0.08 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	480	3,000.00 /Mnth	240	720	720
Water Truck, 4,000 Gallon (L)	1900.210	0.08 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	384	1,200.00 /Mnth	96	480	480
Mikasa Jumping Jack Compactor (L)	1900.138	0.08 Mnth	/Mnth		/Mnth			200.00 /Mnth	16	100.00 /Mnth	8	24	24
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.08 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	200	500.00 /Mnth	40	240	240
Tracer Wire	2333.080	40.00 lf	33.00 /mh	26	0.40 /lf	18		/lf				44	56
Warning Tape Detectable	2333.080	20.00 lf	33.00 /mh	13	0.08 /lf	2		/lf				15	21

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
02605-2 18" RAS (Secondary Splitter to Anoxic 2)													
Polybag 18" and smaller	2333.090	40.00 lf	33.00 /mh	13	2.00 /lf	88		/lf		/lf		101	107
Tracer Wire Test Box	2333.080	2.00 ea	33.00 /mh	396	100.00 /ea	200		/ea		/ea		596	770
DI Pipe Push - Class 250 18	2511.101	20.00 lf	33.00 /mh	119	95.00 /lf	1,919		/lf		/lf		2,038	2,090
DI Wall Pipe MJ x PE w/ Weep Ring & Tapped Holes 18in x 1ft 0in long	15221.388	1.00 ea	33.00 /mh	396	2,900.00 /ea	2,900		/ea		/ea		3,296	3,470
DI Wall Pipe FLG x MJ w/ Weep Ring & Tapped Holes 18in x 1ft 8in long	15221.376	1.00 ea	33.00 /mh	396	4,400.00 /ea	4,400		/ea		/ea		4,796	4,970
Dewatering Pumps & Hoses	2240.050	1.00 ls	/ls		/ls			/ls		/ls			
Trench Stabilization Rock	2305.050	5.00 cy	/cy		36.00 /ton	338		/cy		/cy		338	338
Poly Tape	2333.090	1.00 roll	/roll		7.50 /roll	8		/roll		/roll		8	8
Quart of Gasket Lubricant	15150.035	1.00 ea	33.00 /mh		8.00 /ea	8		/ea		/ea		8	8
02605-2 18" RAS (Secondary Splitter to Anoxic 1)													
Testing Pressure & Leak - Piping	1166.100	1.00 ea	33.00 /mh	264	50.00 /ea	50		50.00 /ea	50	/ea		364	480
Trench Excavtion 8-10'	2333.010	50.00 lf	33.00 /mh	264	/lf			/lf		/lf		264	380
Trench Backfill 8-10'	2333.020	50.00 lf	33.00 /mh	347	/lf			/lf		/lf		347	499
Utility Bedding Peastone	2305.200	16.67 cy	/cy		25.00 /ton	667		/cy		/cy		667	667
Spoils to Waste	2333.060	16.67 cy	33.00 /mh	55	/cy			/cy		/cy		55	79
PVC C-900 Pipe 18 DR-25	2336.310	40.00 lf	33.00 /mh	238	130.00 /lf	5,460		/lf		/lf		5,698	5,802
DI RJ Compact 90 18	2511.514	1.00 ea	33.00 /mh	132	2,200.00 /ea	2,200		/ea		/ea		2,332	2,390
DI RJ Compact Solid Sleeve 18	2511.522	4.00 ea	33.00 /mh	528	1,900.00 /ea	7,600		/ea		/ea		8,128	8,360
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.12 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	1,104	3,500.00 /Mnth	420	1,524	1,524
John Deere 624 Loader (172 HP) (M)	1900.132	0.12 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	720	3,000.00 /Mnth	360	1,080	1,080
Water Truck, 4,000 Gallon (L)	1900.210	0.12 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	576	1,200.00 /Mnth	144	720	720
Mikasa Jumping Jack Compactor (L)	1900.138	0.12 Mnth	/Mnth		/Mnth			200.00 /Mnth	24	100.00 /Mnth	12	36	36
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.12 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	300	500.00 /Mnth	60	360	360
Tracer Wire	2333.080	70.00 lf	33.00 /mh	46	0.40 /lf	31		/lf		/lf		77	97
Warning Tape Detectable	2333.080	50.00 lf	33.00 /mh	33	0.08 /lf	4		/lf		/lf		37	52
Polybag 18" and smaller	2333.090	20.00 lf	33.00 /mh	7	2.00 /lf	44		/lf		/lf		51	54
Tracer Wire Test Box	2333.080	2.00 ea	33.00 /mh	396	100.00 /ea	200		/ea		/ea		596	770
18 Bell Restrainer F/C900	2336.380	1.00 ea	33.00 /mh	50	1,220.00 /ea	1,220		/ea		/ea		1,270	1,291
DI Pipe Push - Class 250 18	2511.101	20.00 lf	33.00 /mh	119	95.00 /lf	1,919		/lf		/lf		2,038	2,090
DI Wall Pipe MJ x PE w/ Weep Ring & Tapped Holes 18in x 1ft 0in long	15221.388	1.00 ea	33.00 /mh	396	2,900.00 /ea	2,900		/ea		/ea		3,296	3,470
DI Wall Pipe FLG x MJ w/ Weep Ring & Tapped Holes 18in x 1ft 8in long	15221.376	1.00 ea	33.00 /mh	396	4,400.00 /ea	4,400		/ea		/ea		4,796	4,970
Dewatering Pumps & Hoses	2240.050	1.00 ls	/ls		/ls			/ls		/ls			
Trench Stabilization Rock	2305.050	10.00 cy	/cy		36.00 /ton	675		/cy		/cy		675	675
Poly Tape	2333.090	1.00 roll	/roll		7.50 /roll	8		/roll		/roll		8	8
Quart of Gasket Lubricant	15150.035	1.00 ea	33.00 /mh		8.00 /ea	8		/ea		/ea		8	8
02605-2 16" SCN (Secondary Splitter to Anaerobic 3)													
Testing Pressure & Leak - Piping	1166.100	1.00 ea	33.00 /mh	264	50.00 /ea	50		50.00 /ea	50	/ea		364	480
Trench Excavtion 6- 8'	2333.010	20.00 lf	33.00 /mh	99	/lf			/lf		/lf		99	143
Trench Backfill 6- 8'	2333.020	20.00 lf	33.00 /mh	132	/lf			/lf		/lf		132	190
Utility Bedding Peastone	2305.200	6.67 cy	/cy		25.00 /ton	267		/cy		/cy		267	267
Spoils to Waste	2333.060	6.67 cy	33.00 /mh	22	/cy			/cy		/cy		22	32
PVC C-900 Pipe 16 DR-25	2336.310	20.00 lf	33.00 /mh	106	98.00 /lf	2,058		/lf		/lf		2,164	2,210
DI RJ Compact 90 16	2511.514	1.00 ea	33.00 /mh	132	1,900.00 /ea	1,900		/ea		/ea		2,032	2,090
DI RJ Compact Solid Sleeve Short 16	2511.523	4.00 ea	33.00 /mh	528	1,550.00 /ea	6,200		/ea		/ea		6,728	6,960
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.08 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	736	3,500.00 /Mnth	280	1,016	1,016
John Deere 624 Loader (172 HP) (M)	1900.132	0.08 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	480	3,000.00 /Mnth	240	720	720
Water Truck, 4,000 Gallon (L)	1900.210	0.08 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	384	1,200.00 /Mnth	96	480	480
Mikasa Jumping Jack Compactor (L)	1900.138	0.08 Mnth	/Mnth		/Mnth			200.00 /Mnth	16	100.00 /Mnth	8	24	24
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.08 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	200	500.00 /Mnth	40	240	240
Tracer Wire	2333.080	40.00 lf	33.00 /mh	26	0.40 /lf	18		/lf		/lf		44	56
Warning Tape Detectable	2333.080	20.00 lf	33.00 /mh	13	0.08 /lf	2		/lf		/lf		15	21
Polybag 18" and smaller	2333.090	20.00 lf	33.00 /mh	7	2.00 /lf	44		/lf		/lf		51	54
Tracer Wire Test Box	2333.080	2.00 ea	33.00 /mh	396	100.00 /ea	200		/ea		/ea		596	770
DI Pipe Push - Class 250 16	2511.101	20.00 lf	33.00 /mh	106	85.00 /lf	1,717		/lf		/lf		1,823	1,869
DI Wall Pipe MJ x PE w/ Weep Ring & Tapped Holes 16in x 1ft 0in long	15221.388	1.00 ea	33.00 /mh	396	2,500.00 /ea	2,500		/ea		/ea		2,896	3,070
DI Wall Pipe MJ x PE w/ Weep Ring & Tapped Holes 16in x 1ft 8in long	15221.388	1.00 ea	33.00 /mh	396	2,800.00 /ea	2,800		/ea		/ea		3,196	3,370
Dewatering Pumps & Hoses	2240.050	1.00 ls	/ls		/ls			/ls		/ls			
Trench Stabilization Rock	2305.050	5.00 cy	/cy		36.00 /ton	338		/cy		/cy		338	338
Poly Tape	2333.090	1.00 roll	/roll		7.50 /roll	8		/roll		/roll		8	8
Quart of Gasket Lubricant	15150.035	1.00 ea	33.00 /mh		8.00 /ea	8		/ea		/ea		8	8
02605-2 16" SCN (Secondary Splitter to Anaerobic 1)													
Testing Pressure & Leak - Piping	1166.100	1.00 ea	33.00 /mh	264	50.00 /ea	50		50.00 /ea	50	/ea		364	480
Trench Excavtion 6- 8'	2333.010	12.00 lf	33.00 /mh	59	/lf			/lf		/lf		59	86
Trench Backfill 6- 8'	2333.020	12.00 lf	33.00 /mh	79	/lf			/lf		/lf		79	114
Utility Bedding Peastone	2305.200	4.00 cy	/cy		25.00 /ton	160		/cy		/cy		160	160
Spoils to Waste	2333.060	4.00 cy	33.00 /mh	13	/cy			/cy		/cy		13	19
PVC C-900 Pipe 16 DR-25	2336.310	20.00 lf	33.00 /mh	106	98.00 /lf	2,058		/lf		/lf		2,164	2,210
DI RJ Compact 90 16	2511.514	1.00 ea	33.00 /mh	132	1,900.00 /ea	1,900		/ea		/ea		2,032	2,090
DI RJ Compact Solid Sleeve Short 16	2511.523	2.00 ea	33.00 /mh	264	1,550.00 /ea	3,100		/ea		/ea		3,364	3,480
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.06 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	552	3,500.00 /Mnth	210	762	762
John Deere 624 Loader (172 HP) (M)	1900.132	0.06 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	360	3,000.00 /Mnth	180	540	540
Water Truck, 4,000 Gallon (L)	1900.210	0.06 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	288	1,200.00 /Mnth	72	360	360
Mikasa Jumping Jack Compactor (L)	1900.138	0.06 Mnth	/Mnth		/Mnth			200.00 /Mnth	12	100.00 /Mnth	6	18	18
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.06 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	150	500.00 /Mnth	30	180	180
Tracer Wire	2333.080	30.00 lf	33.00 /mh	20	0.40 /lf	13		/lf		/lf		33	42
Warning Tape Detectable	2333.080	12.00 lf	33.00 /mh	8	0.08 /lf	1		/lf		/lf		9	12
Polybag 18" and smaller	2333.090	24.00 lf	33.00 /mh	8	2.00 /lf	53		/lf		/lf		61	64
Tracer Wire Test Box	2333.080	2.00 ea	33.00 /mh	396	100.00 /ea	200		/ea		/ea		596	770
DI Pipe Push - Class 250 16	2511.101	20.00 lf	33.00 /mh	106	85.00 /lf	1,717		/lf		/lf		1,823	1,869
DI Wall Pipe MJ x PE w/ Weep Ring & Tapped Holes 16in x 1ft 0in long	15221.388	1.00 ea	33.00 /mh	396	2,500.00 /ea	2,500		/ea		/ea		2,896	3,070
DI Wall Pipe MJ x PE w/ Weep Ring & Tapped Holes 16in x 1ft 8in long	15221.388	1.00 ea	33.00 /mh	396	2,800.00 /ea	2,800		/ea		/ea		3,196	3,370
Dewatering Pumps & Hoses	2240.050	1.00 ls	/ls		/ls			/ls		/ls			

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
02605-2 16" SCN (Secondary Splitter to Anaerobic 1)													
Trench Stabilization Rock	2305.050	1.50 cy	/cy		36.00 /ton	101		/cy		/cy		101	101
Poly Tape	2333.090	1.00 roll	/roll		7.50 /roll	8		/roll		/roll		8	8
Quart of Gasket Lubricant	15150.035	1.00 ea	33.00 /mh		8.00 /ea	8		/ea		/ea		8	8
02605-2 24" OF (Process Basin to EQ)													
Testing Pressure & Leak - Piping	1166.100	1.00 ea	33.00 /mh	264	50.00 /ea	50		50.00 /ea	50	/ea		364	480
Trench Excavtion 14-16'	2333.010	120.00 lf	33.00 /mh	792	/lf			/lf		/lf		792	1,140
Trench Backfill 14-16'	2333.020	120.00 lf	33.00 /mh	1,188	/lf			/lf		/lf		1,188	1,711
Utility Bedding Peastone	2305.200	71.11 cy	/cy		25.00 /ton	2,844		/cy		/cy		2,844	2,844
Spoils to Waste	2333.060	71.11 cy	33.00 /mh	235	/cy			/cy		/cy		235	338
PVC C-900 Pipe 24 DR-25	2336.310	120.00 lf	33.00 /mh	990	225.00 /lf	28,350		/lf		/lf		29,340	29,776
DI RJ Compact 90 24	2511.514	2.00 ea	33.00 /mh	396	4,000.00 /ea	8,000		/ea		/ea		8,396	8,570
DI RJ Compact Solid Sleeve 24	2511.522	4.00 ea	33.00 /mh	792	2,850.00 /ea	11,400		/ea		/ea		12,192	12,540
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.26 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	2,392	3,500.00 /Mnth	910	3,302	3,302
John Deere 624 Loader (172 HP) (M)	1900.132	0.26 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	1,560	3,000.00 /Mnth	780	2,340	2,340
Water Truck, 4,000 Gallon (L)	1900.210	0.26 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	1,248	1,200.00 /Mnth	312	1,560	1,560
Mikasa Jumping Jack Compactor (L)	1900.138	0.26 Mnth	/Mnth		/Mnth			200.00 /Mnth	52	100.00 /Mnth	26	78	78
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.26 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	650	500.00 /Mnth	130	780	780
Tracer Wire	2333.080	160.00 lf	33.00 /mh	106	0.40 /lf	70		/lf		/lf		176	222
Warning Tape Detectable	2333.080	120.00 lf	33.00 /mh	79	0.08 /lf	10		/lf		/lf		89	124
Polybag 24" and smaller	2333.090	60.00 lf	33.00 /mh	20	2.00 /lf	132		/lf		/lf		152	161
Tracer Wire Test Box	2333.080	2.00 ea	33.00 /mh	396	100.00 /ea	200		/ea		/ea		596	770
24 Bell Restrainer F/C900	2336.380	6.00 ea	33.00 /mh	396	2,700.00 /ea	16,200		/ea		/ea		16,596	16,770
DI Wall Pipe MJ x PE w/ Weep Ring & Tapped Holes 24in x 2ft 0in long	15221.388	1.00 ea	33.00 /mh	528	4,600.00 /ea	4,600		/ea		/ea		5,128	5,360
DI Wall Pipe FLG x PE w/ Weep Ring 24in x 6ft 0in long	15221.336	1.00 ea	33.00 /mh	528	4,650.00 /ea	4,650		/ea		/ea		5,178	5,410
DI Pipe Push - Class 200 24	2511.101	20.00 lf	33.00 /mh	165	135.00 /lf	2,727		/lf		/lf		2,892	2,965
02605-2 12" PD (MBR to Site Lift Sation)													
Testing Pressure & Leak - Piping	1166.100	2.00 ea	33.00 /mh	528	50.00 /ea	100		50.00 /ea	100	/ea		728	960
Trench Excavtion 10-12'	2333.010	420.00 lf	33.00 /mh	2,772	/lf			/lf		/lf		2,772	3,992
Trench Backfill 10-12'	2333.020	420.00 lf	33.00 /mh	3,465	/lf			/lf		/lf		3,465	4,990
Utility Bedding Peastone	2305.200	140.00 cy	/cy		25.00 /ton	5,600		/cy		/cy		5,600	5,600
Spoils to Waste	2333.060	140.00 cy	33.00 /mh	462	/cy			/cy		/cy		462	665
PVC C-900 Pipe 12 DR-25	2336.310	420.00 lf	33.00 /mh	1,663	57.00 /lf	25,137		/lf		/lf		26,800	27,532
DI RJ Compact 45 4	2511.514	3.00 ea	33.00 /mh	99	250.00 /ea	750		/ea		/ea		849	893
DI RJ Compact 45 12	2511.514	3.00 ea	33.00 /mh	297	850.00 /ea	2,550		/ea		/ea		2,847	2,978
DI RJ Compact Wye 12x4	2511.528	3.00 ea	33.00 /mh	297	1,550.00 /ea	4,650		/ea		/ea		4,947	5,078
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.50 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	4,600	3,500.00 /Mnth	1,750	6,350	6,350
DI RJ Compact Solid Sleeve Short 12	2511.523	2.00 ea	33.00 /mh	198	800.00 /ea	1,600		/ea		/ea		1,798	1,885
John Deere 624 Loader (172 HP) (M)	1900.132	0.50 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	3,000	3,000.00 /Mnth	1,500	4,500	4,500
Water Truck, 4,000 Gallon (L)	1900.210	0.50 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	2,400	1,200.00 /Mnth	600	3,000	3,000
Mikasa Jumping Jack Compactor (L)	1900.138	0.50 Mnth	/Mnth		/Mnth			200.00 /Mnth	100	100.00 /Mnth	50	150	150
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.50 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	1,250	500.00 /Mnth	250	1,500	1,500
Tracer Wire	2333.080	480.00 lf	33.00 /mh	317	0.40 /lf	211		/lf		/lf		528	667
Warning Tape Detectable	2333.080	420.00 lf	33.00 /mh	277	0.08 /lf	34		/lf		/lf		311	433
3500 psi Thrust Block Concrete	3310.105	3.00 cy	33.00 /mh	594	278.00 /cy	876		/cy		/cy		1,470	1,731
Polybag 12" and Smaller	2333.090	160.00 lf	33.00 /mh	53	1.00 /lf	176		/lf		/lf		229	252
Tracer Wire Test Box	2333.080	4.00 ea	33.00 /mh	792	100.00 /ea	400		/ea		/ea		1,192	1,540
12 Bell Restrainer F/C900	2336.380	22.00 ea	33.00 /mh	1,452	500.00 /ea	11,000		/ea		/ea		12,452	13,091
DI Pipe 4in. dia FxPE - 11ft. 0in.	15221.030	3.00 ea	33.00 /mh	297	870.00 /ea	2,610		/ea		/ea		2,907	3,038
DI Blind Flange 4" w/ 1" Tap	15221.405	3.00 ea	33.00 /mh	99	200.00 /ea	600		/ea		/ea		699	743
Stainless Steel Nipple 1" x 3"	15212.010	6.00 ea	33.00 /mh	50	20.00 /ea	120		/ea		/ea		170	191
Valve Plug Threaded 150# 1"	15110.416	3.00 ea	33.00 /mh	198	150.00 /ea	450		/ea		/ea		648	735
Pressurized Cleanout Cover (Det C132)	2327.120	3.00 ea	33.00 /mh	396	0.01 /ea	0		/ea		/ea		396	570
Dewatering Pumps & Hoses													
Trench Stabilization Rock	2305.050	47.00 cy	/cy		36.00 /ton	3,173		/cy		/cy		3,173	3,173
Grout Pipe in Manhole 12"	2327.090	3.00 ea	33.00 /mh	396	50.00 /ea	150		/ea		/ea		546	720
Link Seal Size LS-360-S	15123.100	43.00 ea	33.00 /mh	213	23.00 /ea	989		/ea		/ea		1,202	1,296
DI Pipe 12in. dia FxPE - 4ft. 0in.	15221.030	1.00 ea	33.00 /mh	66	1,150.00 /ea	1,150		/ea		/ea		1,216	1,245
12" Romac Style 501 IPS x DI	2519.310	1.00 ea	33.00 /mh	66	1,500.00 /ea	1,500		/ea		/ea		1,566	1,595
Poly Tape	2333.090	5.00 roll	/roll		7.50 /roll	41		/roll		/roll		41	41
Quart of Gasket Lubricant	15150.035	5.00 ea	33.00 /mh		8.00 /ea	40		/ea		/ea		40	40
02605-2 6" WAS (MBR to Holding Tank)													
Testing Pressure & Leak - Piping	1166.100	1.00 ea	33.00 /mh	264	50.00 /ea	50		50.00 /ea	50	/ea		364	480
Trench Excavtion 12-14'	2333.010	240.00 lf	33.00 /mh	1,584	/lf			/lf		/lf		1,584	2,281
Trench Backfill 12-14'	2333.020	240.00 lf	33.00 /mh	2,376	/lf			/lf		/lf		2,376	3,421
Utility Bedding Peastone	2305.200	80.00 cy	/cy		25.00 /ton	3,200		/cy		/cy		3,200	3,200
Spoils to Waste	2333.060	80.00 cy	33.00 /mh	264	/cy			/cy		/cy		264	380
PVC C-900 Pipe 6 DR-25	2336.310	240.00 lf	33.00 /mh	792	16.50 /lf	4,158		/lf		/lf		4,950	5,298
DI RJ Compact 90 6	2511.514	3.00 ea	33.00 /mh	149	400.00 /ea	1,200		/ea		/ea		1,349	1,414
DI RJ Compact 45 6	2511.514	3.00 ea	33.00 /mh	149	380.00 /ea	1,140		/ea		/ea		1,289	1,354
DI RJ Compact 22-1/2 6	2511.514	1.00 ea	33.00 /mh	50	370.00 /ea	370		/ea		/ea		420	441
DI RJ Compact Wye 6	2511.528	1.00 ea	33.00 /mh	50	675.00 /ea	675		/ea		/ea		725	746
DI RJ Compact Cap 6	2511.510	1.00 ea	33.00 /mh	50	190.00 /ea	190		/ea		/ea		240	261
DI RJ Compact Solid Sleeve Short 6	2511.523	4.00 ea	33.00 /mh	198	350.00 /ea	1,400		/ea		/ea		1,598	1,685
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.30 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	2,760	3,500.00 /Mnth	1,050	3,810	3,810
John Deere 624 Loader (172 HP) (M)	1900.132	0.30 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	1,800	3,000.00 /Mnth	900	2,700	2,700
Water Truck, 4,000 Gallon (L)	1900.210	0.30 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	1,440	1,200.00 /Mnth	360	1,800	1,800
Mikasa Jumping Jack Compactor (L)	1900.138	0.30 Mnth	/Mnth		/Mnth			200.00 /Mnth	60	100.00 /Mnth	30	90	90
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.30 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	750	500.00 /Mnth	150	900	900
Tracer Wire	2333.080	270.00 lf	33.00 /mh	178	0.40 /lf	119		/lf		/lf		297	375
Warning Tape Detectable	2333.080	240.00 lf	33.00 /mh	158	0.08 /lf	19		/lf		/lf		178	247
Polybag 12" and Smaller	2333.090	160.00 lf	33.00 /mh	53	1.00 /lf	176		/lf		/lf		229	252
Tracer Wire Test Box	2333.080	2.00 ea	33.00 /mh	396	100.00 /ea	200		/ea		/ea		596	770

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
02605-2 6" WAS (MBR to Holding Tank)													
Valve - Plug MJ 6"	2519.160	1.00 ea	33.00 /mh	33	2,000.00 /ea	2,000		/ea		/ea		2,033	2,048
Valve Box Assembly 6' Bury	2519.130	1.00 ea	33.00 /mh	99	320.00 /ea	320		/ea		/ea		419	463
Valve Box 2' Extension	2519.130	4.00 ea	33.00 /mh	66	90.00 /ea	360		/ea		/ea		426	455
Conc Block for Valve	2519.100	1.00 ea	33.00 /mh	33	50.00 /ea	50		/ea		/ea		83	98
Conc Pad for Valve Box	2519.100	1.00 ea	33.00 /mh	66	75.00 /ea	75		/ea		/ea		141	170
Valve Stem Extension	2519.100	1.00 ea	33.00 /mh	33	150.00 /ea	150		/ea		/ea		183	198
6 Bell Restrainer F/C900	2336.380	12.00 ea	33.00 /mh	396	190.00 /ea	2,280		/ea		/ea		2,676	2,850
DI Pipe 6in. dia FxPE - 6ft. 0in.	15221.030	1.00 ea	33.00 /mh	66	650.00 /ea	650		/ea		/ea		716	745
DI Pipe 6in. dia FxPE - 13ft. 0in.	15221.030	1.00 ea	33.00 /mh	132	1,350.00 /ea	1,350		/ea		/ea		1,482	1,540
DI Blind Flange 6" w/ 1" Tap for Testing	15221.405	2.00 ea	33.00 /mh	66	250.00 /ea	500		/ea		/ea		566	595
Sleeve w/Ring SS 10" x 18"	15121.250	1.00 ea	33.00 /mh	396	1,500.00 /ea	1,500		/ea		/ea		1,896	2,070
Link Seal Size LS-410-S	15123.100	10.00 ea	33.00 /mh	50	23.00 /ea	230		/ea		/ea		280	301
Dewatering Pumps & Hoses													
Trench Stabilization Rock	2305.050	26.00 cy	/cy		36.00 /ton	1,755		/cy		/cy		1,755	1,755
DI Pipe Push - Class 350 6	2511.101	20.00 lf	33.00 /mh	66	30.00 /lf	606		/lf		/lf		672	701
02605-2 6" WAS (Holding Tank to Dewatering)													
Testing Pressure & Leak - Piping	1166.100	1.00 ea	33.00 /mh	264	50.00 /ea	50		50.00 /ea	50	/ea		364	480
Trench Excavtion 10-12'	2333.010	180.00 lf	33.00 /mh	1,188	/lf			/lf		/lf		1,188	1,711
Trench Backfill 10-12'	2333.020	180.00 lf	33.00 /mh	1,782	/lf			/lf		/lf		1,782	2,566
Utility Bedding Peastone	2305.200	60.00 cy	/cy		25.00 /ton	2,400		/cy		/cy		2,400	2,400
Spoils to Waste	2333.060	60.00 cy	33.00 /mh	198	/cy			/cy		/cy		198	285
PVC C-900 Pipe 6 DR-25	2336.310	180.00 lf	33.00 /mh	594	16.50 /lf	3,119		/lf		/lf		3,713	3,974
DI RJ Compact 90 6	2511.514	2.00 ea	33.00 /mh	99	400.00 /ea	800		/ea		/ea		899	943
DI RJ Compact 45 6	2511.514	1.00 ea	33.00 /mh	50	380.00 /ea	380		/ea		/ea		430	451
DI RJ Compact Tee 6	2511.524	1.00 ea	33.00 /mh	50	600.00 /ea	600		/ea		/ea		650	671
DI RJ Compact Tee 6x4	2511.524	1.00 ea	33.00 /mh	50	550.00 /ea	550		/ea		/ea		600	621
DI RJ Compact Wye 6	2511.528	1.00 ea	33.00 /mh	50	675.00 /ea	675		/ea		/ea		725	746
DI RJ Compact Cap 6	2511.510	1.00 ea	33.00 /mh	50	190.00 /ea	190		/ea		/ea		240	261
DI RJ Compact Solid Sleeve Short 6	2511.523	4.00 ea	33.00 /mh	198	350.00 /ea	1,400		/ea		/ea		1,598	1,685
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.26 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	2,392	3,500.00 /Mnth	910	3,302	3,302
John Deere 624 Loader (172 HP) (M)	1900.132	0.26 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	1,560	3,000.00 /Mnth	780	2,340	2,340
Water Truck, 4,000 Gallon (L)	1900.210	0.26 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	1,248	1,200.00 /Mnth	312	1,560	1,560
Mikasa Jumping Jack Compactor (L)	1900.138	0.26 Mnth	/Mnth		/Mnth			200.00 /Mnth	52	100.00 /Mnth	26	78	78
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.26 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	650	500.00 /Mnth	130	780	780
Tracer Wire	2333.080	210.00 lf	33.00 /mh	139	0.40 /lf	92		/lf		/lf		231	292
Warning Tape Detectable	2333.080	180.00 lf	33.00 /mh	119	0.08 /lf	14		/lf		/lf		133	185
Polybag 12" and Smaller	2333.090	100.00 lf	33.00 /mh	33	1.00 /lf	110		/lf		/lf		143	158
Tracer Wire Test Box	2333.080	2.00 ea	33.00 /mh	396	100.00 /ea	200		/ea		/ea		596	770
Valve - Plug MJ 6"	2519.160	2.00 ea	33.00 /mh	132	2,000.00 /ea	4,000		/ea		/ea		4,132	4,190
Valve Box Assembly 6' Bury	2519.130	2.00 ea	33.00 /mh	198	320.00 /ea	640		/ea		/ea		838	925
Valve Box 2' Extension	2519.130	6.00 ea	33.00 /mh	99	90.00 /ea	540		/ea		/ea		639	683
Conc Block for Valve	2519.100	2.00 ea	33.00 /mh	66	50.00 /ea	100		/ea		/ea		166	195
Conc Pad for Valve Box	2519.100	2.00 ea	33.00 /mh	132	75.00 /ea	150		/ea		/ea		282	340
Valve Stem Extension	2519.100	2.00 ea	33.00 /mh	66	150.00 /ea	300		/ea		/ea		366	395
6 Bell Restrainer F/C900	2336.380	9.00 ea	33.00 /mh	297	190.00 /ea	1,710		/ea		/ea		2,007	2,138
DI Pipe Push - Class 350 6	2511.101	80.00 lf	33.00 /mh	264	30.00 /lf	2,424		/lf		/lf		2,688	2,804
Sleeve w/Ring SS 10" x 18"	15121.250	1.00 ea	33.00 /mh	264	1,500.00 /ea	1,500		/ea		/ea		1,764	1,880
DI Pipe 6in. dia FxPE - 9ft. 0in.	15221.030	1.00 ea	33.00 /mh	99	900.00 /ea	900		/ea		/ea		999	1,043
DI Pipe 4in. dia FxPE - 7ft. 0in.	15221.030	1.00 ea	33.00 /mh	99	580.00 /ea	580		/ea		/ea		679	723
Restrained Dismantling Joint 6" SS Bolts (SB975 or Equal)	15112.085	1.00 ea	33.00 /mh	99	850.00 /ea	850		/ea		/ea		949	993
Valve Plug Flange 125# 4in	15110.650	1.00 ea	33.00 /mh	33	1,700.00 /ea	1,700		/ea		/ea		1,733	1,748
NBG Kit 125# 316SS 4in w/ FF EPDM Gasket	15125.012	2.00 ea	33.00 /mh	66	80.00 /ea	160		/ea		/ea		226	255
Camlock Adapter SS Male x MPT 4"	15220.600	1.00 ea	33.00 /mh	33	230.00 /ea	230		/ea		/ea		263	278
Camlock Cap SS 4"	15220.600	1.00 ea	33.00 /mh	33	150.00 /ea	150		/ea		/ea		183	198
Dewatering Pumps & Hoses													
Trench Stabilization Rock	2305.050	20.00 cy	/cy		36.00 /ton	1,350		/cy		/cy		1,350	1,350
Poly Tape	2333.090	3.00 roll	/roll		7.50 /roll	25		/roll		/roll		25	25
Quart of Gasket Lubricant	15150.035	3.00 ea	33.00 /mh		8.00 /ea	24		/ea		/ea		24	24
Link Seal Size LS-410-S	15123.100	10.00 ea	33.00 /mh	50	23.00 /ea	230		/ea		/ea		280	301
02605-2 4" PD (Solids Holding Tank to MH PD-1)													
Testing Pressure & Leak - Piping	1166.100	1.00 ea	33.00 /mh	264	50.00 /ea	50		50.00 /ea	50	/ea		364	480
Trench Excavtion 8-10'	2333.010	80.00 lf	33.00 /mh	422	/lf			/lf		/lf		422	608
Trench Backfill 8-10'	2333.020	80.00 lf	33.00 /mh	554	/lf			/lf		/lf		554	798
Utility Bedding Peastone	2305.200	26.67 cy	/cy		25.00 /ton	1,067		/cy		/cy		1,067	1,067
Spoils to Waste	2333.060	26.67 cy	33.00 /mh	88	/cy			/cy		/cy		88	127
PVC C-900 Pipe 4 DR-25	2336.310	80.00 lf	33.00 /mh	238	8.00 /lf	672		/lf		/lf		910	1,014
DI RJ Compact 90 4	2511.514	1.00 ea	33.00 /mh	33	260.00 /ea	260		/ea		/ea		293	308
DI RJ Compact Cap 4 w/ 1" Tap For Testing	2511.510	2.00 ea	33.00 /mh	66	230.00 /ea	460		/ea		/ea		526	555
DI RJ Compact Solid Sleeve Short 4	2511.523	2.00 ea	33.00 /mh	66	250.00 /ea	500		/ea		/ea		566	595
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.06 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	552	3,500.00 /Mnth	210	762	762
John Deere 624 Loader (172 HP) (M)	1900.132	0.06 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	360	3,000.00 /Mnth	180	540	540
Water Truck, 4,000 Gallon (L)	1900.210	0.06 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	288	1,200.00 /Mnth	72	360	360
Mikasa Jumping Jack Compactor (L)	1900.138	0.06 Mnth	/Mnth		/Mnth			200.00 /Mnth	12	100.00 /Mnth	6	18	18
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.06 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	150	500.00 /Mnth	30	180	180
Tracer Wire	2333.080	100.00 lf	33.00 /mh	66	0.40 /lf	44		/lf		/lf		110	139
Warning Tape Detectable	2333.080	80.00 lf	33.00 /mh	53	0.08 /lf	6		/lf		/lf		59	82
Polybag 12" and Smaller	2333.090	20.00 lf	33.00 /mh	7	1.00 /lf	22		/lf		/lf		29	32
Tracer Wire Test Box	2333.080	2.00 ea	33.00 /mh	396	100.00 /ea	200		/ea		/ea		596	770
4 Bell Restrainer F/C900	2336.380	4.00 ea	33.00 /mh	132	150.00 /ea	600		/ea		/ea		732	790
DI Pipe 4in. dia FxPE - 9ft. 0in.	15221.030	1.00 ea	33.00 /mh	99	670.00 /ea	670		/ea		/ea		769	813
Link Seal Size LS-410-S	15123.100	8.00 ea	33.00 /mh	40	23.00 /ea	184		/ea		/ea		224	241
Grout Pipe in Manhole 4"	2327.090	2.00 ea	33.00 /mh	66	15.00 /ea	30		/ea		/ea		96	125

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
02605-2 4" PD (Solids Holding Tank to MH PD-1)													
Poly Tape	2333.090	1.00 roll	/roll		7.50 /roll	8		/roll		/roll		8	8
Quart of Gasket Lubricant	15150.035	1.00 ea	33.00 /mh		8.00 /ea	8		/ea		/ea		8	8
Dewatering Pumps & Hoses	2240.050	1.00 ls	/ls		/ls			/ls		/ls			
Trench Stabilization Rock	2305.050	10.00 cy	/cy		36.00 /ton	675		/cy		/cy		675	675
02605-2 6" PD (Site Lift Station to Headworks)													
Testing Pressure & Leak - Piping	1166.100	2.00 ea	33.00 /mh	528	50.00 /ea	100		50.00 /ea	100	/ea		728	960
Trench Excavtion 4- 6'	2333.010	140.00 lf	33.00 /mh	693	/lf			/lf		/lf		693	998
Trench Backfill 4- 6'	2333.020	140.00 lf	33.00 /mh	924	/lf			/lf		/lf		924	1,331
Utility Bedding Peastone	2305.200	46.67 cy	/cy		25.00 /ton	1,867		/cy		/cy		1,867	1,867
Spoils to Waste	2333.060	46.67 cy	33.00 /mh	154	/cy			/cy		/cy		154	222
PVC C-900 Pipe 6 DR-25	2336.310	140.00 lf	33.00 /mh	462	16.50 /lf	2,426		/lf		/lf		2,888	3,091
DI RJ Compact 90 6	2511.514	2.00 ea	33.00 /mh	99	400.00 /ea	800		/ea		/ea		899	943
DI RJ Compact 90 8	2511.514	2.00 ea	33.00 /mh	132	520.00 /ea	1,040		/ea		/ea		1,172	1,230
DI RJ Compact 45 6	2511.514	2.00 ea	33.00 /mh	99	380.00 /ea	760		/ea		/ea		859	903
DI RJ Compact 22-½ 6	2511.514	4.00 ea	33.00 /mh	198	370.00 /ea	1,480		/ea		/ea		1,678	1,765
DI RJ Compact Red 8x6	2511.520	1.00 ea	33.00 /mh	66	400.00 /ea	400		/ea		/ea		466	495
DI RJ Compact Cap 8 w/ 2" Tap for Testing	2511.510	2.00 ea	33.00 /mh	132	275.00 /ea	550		/ea		/ea		682	740
DI RJ Compact Solid Sleeve Short 6	2511.523	2.00 ea	33.00 /mh	132	350.00 /ea	700		/ea		/ea		832	890
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.25 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	2,300	3,500.00 /Mnth	875	3,175	3,175
John Deere 624 Loader (172 HP) (M)	1900.132	0.25 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	1,500	3,000.00 /Mnth	750	2,250	2,250
Water Truck, 4,000 Gallon (L)	1900.210	0.25 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	1,200	1,200.00 /Mnth	300	1,500	1,500
Mikasa Jumping Jack Compactor (L)	1900.138	0.25 Mnth	/Mnth		/Mnth			200.00 /Mnth	50	100.00 /Mnth	25	75	75
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.25 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	625	500.00 /Mnth	125	750	750
Tracer Wire	2333.080	160.00 lf	33.00 /mh	106	0.40 /lf	70		/lf		/lf		176	222
Warning Tape Detectable	2333.080	140.00 lf	33.00 /mh	92	0.08 /lf	11		/lf		/lf		104	144
Polybag 12" and Smaller	2333.090	40.00 lf	33.00 /mh	13	1.00 /lf	44		/lf		/lf		57	63
Tracer Wire Test Box	2333.080	2.00 ea	33.00 /mh	396	100.00 /ea	200		/ea		/ea		596	770
6 Bell Restrainer F/C900	2336.380	8.00 ea	33.00 /mh	264	190.00 /ea	1,520		/ea		/ea		1,784	1,900
DI Pipe 6in. dia FxPE - 6ft. 0in.	15221.030	1.00 ea	33.00 /mh	66	650.00 /ea	650		/ea		/ea		716	745
DI Pipe 8in. dia FxPE - 6ft. 0in.	15221.030	1.00 ea	33.00 /mh	66	950.00 /ea	950		/ea		/ea		1,016	1,045
DI Wall Pipe FLG x FLG w/ Weep Ring & Tapped Holes 8in x 1ft 0in long	15221.372	1.00 ea	33.00 /mh	264	1,100.00 /ea	1,100		/ea		/ea		1,364	1,480
NBG Kit 125# 316SS 8in w/ FF EPDM Gasket	15125.012	1.00 ea	33.00 /mh	33	140.00 /ea	140		/ea		/ea		173	188
DI Pipe Push - Class 350 8	2511.101	20.00 lf	33.00 /mh	73	40.00 /lf	808		/lf		/lf		881	913
Poly Tape	2333.090	2.00 roll	/roll		7.50 /roll	17		/roll		/roll		17	17
Quart of Gasket Lubricant	15150.035	2.00 ea	33.00 /mh		8.00 /ea	16		/ea		/ea		16	16
02605-2 6" PD (Process Basin to Site Lift Station)													
Testing Pressure & Leak - Piping	1166.100	1.00 ea	33.00 /mh	264	50.00 /ea	50		50.00 /ea	50	/ea		364	480
Trench Excavtion 22-24'	2333.010	420.00 lf	33.00 /mh	5,544	/lf			/lf		/lf		5,544	7,983
Trench Backfill 22-24'	2333.020	420.00 lf	33.00 /mh	6,930	/lf			/lf		/lf		6,930	9,979
Trench Box 24' Deep	2333.030	420.00 lf	/lf		/lf			/lf		9.00 /lf	3,780	3,780	3,780
Utility Bedding Peastone	2305.200	248.89 cy	/cy		25.00 /ton	9,956		/cy		/cy		9,956	9,956
Spoils to Waste	2333.060	248.89 cy	33.00 /mh	821	/cy			/cy		/cy		821	1,183
PVC C-900 Pipe 6 DR-25	2336.310	420.00 lf	33.00 /mh	1,386	16.50 /lf	7,277		/lf		/lf		8,663	9,272
DI RJ Compact 90 6	2511.514	3.00 ea	33.00 /mh	149	400.00 /ea	1,200		/ea		/ea		1,349	1,414
DI RJ Compact 45 6	2511.514	5.00 ea	33.00 /mh	248	380.00 /ea	1,900		/ea		/ea		2,148	2,256
DI RJ Compact Wye 6	2511.528	2.00 ea	33.00 /mh	132	675.00 /ea	1,350		/ea		/ea		1,482	1,540
DI RJ Compact Solid Sleeve Short 6	2511.523	8.00 ea	33.00 /mh	528	350.00 /ea	2,800		/ea		/ea		3,328	3,560
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.60 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	5,520	3,500.00 /Mnth	2,100	7,620	7,620
John Deere 624 Loader (172 HP) (M)	1900.132	0.60 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	3,600	3,000.00 /Mnth	1,800	5,400	5,400
Water Truck, 4,000 Gallon (L)	1900.210	0.60 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	2,880	1,200.00 /Mnth	720	3,600	3,600
Mikasa Jumping Jack Compactor (L)	1900.138	0.60 Mnth	/Mnth		/Mnth			200.00 /Mnth	120	100.00 /Mnth	60	180	180
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.60 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	1,500	500.00 /Mnth	300	1,800	1,800
Tracer Wire	2333.080	470.00 lf	33.00 /mh	310	0.40 /lf	207		/lf		/lf		517	653
Warning Tape Detectable	2333.080	420.00 lf	33.00 /mh	277	0.08 /lf	34		/lf		/lf		311	433
Polybag 12" and Smaller	2333.090	160.00 lf	33.00 /mh	53	1.00 /lf	176		/lf		/lf		229	252
Tracer Wire Test Box	2333.080	2.00 ea	33.00 /mh	396	100.00 /ea	200		/ea		/ea		596	770
6 Bell Restrainer F/C900	2336.380	21.00 ea	33.00 /mh	693	190.00 /ea	3,990		/ea		/ea		4,683	4,988
DI Pipe Push - Class 350 8	2511.101	60.00 lf	33.00 /mh	218	40.00 /lf	2,424		/lf		/lf		2,642	2,738
DI Wall Pipe FLG x PE w/ Weep Ring & Tapped Holes 6in x 4ft 0in long	15221.380	3.00 ea	33.00 /mh	792	800.00 /ea	2,400		/ea		/ea		3,192	3,540
Link Seal Size LS-410-S	15123.100	10.00 ea	33.00 /mh	50	23.00 /ea	230		/ea		/ea		280	301
Grout Pipe in Manhole 6"	2327.090	1.00 ea	33.00 /mh	66	25.00 /ea	25		/ea		/ea		91	120
Engineered/Stamped Design for Excavation	2317.105	1.00 ls	/ls		/ls		3,500	/ls		/ls		3,500	3,500
Dewatering Pumps & Hoses	2240.050	1.00 ls	/ls		/ls			/ls		/ls			
Trench Stabilization Rock	2305.050	65.00 cy	/cy		36.00 /ton	4,388		/cy		/cy		4,388	4,388
Poly Tape	2333.090	6.00 roll	/roll		7.50 /roll	50		/roll		/roll		50	50
Quart of Gasket Lubricant	15150.035	6.00 ea	33.00 /mh		8.00 /ea	48		/ea		/ea		48	48
02605-2 6" PD (Admin to Site Lift Station)													
Testing Pressure & Leak - Piping	1166.100	1.00 ea	33.00 /mh	264	50.00 /ea	50		50.00 /ea	50	/ea		364	480
Trench Excavtion 8-10'	2333.010	40.00 lf	33.00 /mh	211	/lf			/lf		/lf		211	304
Trench Backfill 8-10'	2333.020	40.00 lf	33.00 /mh	277	/lf			/lf		/lf		277	399
Trench Box 10' Deep	2333.030	40.00 lf	/lf		/lf			/lf		9.00 /lf	360	360	360
Utility Bedding Peastone	2305.200	13.33 cy	/cy		25.00 /ton	533		/cy		/cy		533	533
Spoils to Waste	2333.060	13.33 cy	33.00 /mh	44	/cy			/cy		/cy		44	63
PVC C-900 Pipe 6 DR-25	2336.310	40.00 lf	33.00 /mh	132	16.50 /lf	693		/lf		/lf		825	883
DI RJ Compact 45 6	2511.514	2.00 ea	33.00 /mh	66	380.00 /ea	760		/ea		/ea		826	855
DI RJ Compact Solid Sleeve Short 6	2511.523	3.00 ea	33.00 /mh	99	350.00 /ea	1,050		/ea		/ea		1,149	1,193
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.06 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	552	3,500.00 /Mnth	210	762	762
John Deere 624 Loader (172 HP) (M)	1900.132	0.06 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	360	3,000.00 /Mnth	180	540	540
Water Truck, 4,000 Gallon (L)	1900.210	0.06 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	288	1,200.00 /Mnth	72	360	360
Mikasa Jumping Jack Compactor (L)	1900.138	0.06 Mnth	/Mnth		/Mnth			200.00 /Mnth	12	100.00 /Mnth	6	18	18
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.06 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	150	500.00 /Mnth	30	180	180
Tracer Wire	2333.080	60.00 lf	33.00 /mh	40	0.40 /lf	26		/lf		/lf		66	83

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
02605-2 6" PD (Admin to Site Lift Station)													
Warning Tape Detectable	2333.080	40.00 lf	33.00 /mh	26	0.08 /lf	3		/lf		/lf		30	41
Polybag 12" and Smaller	2333.090	20.00 lf	33.00 /mh	7	1.00 /lf	22		/lf		/lf		29	32
Pot Hole Existing	2333.010	1.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Cut Existing	2333.010	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Tie to Existing	2333.010	1.00 ea	33.00 /mh	132	50.00 /ea	50		/ea		/ea		182	240
Tracer Wire Test Box	2333.080	2.00 ea	33.00 /mh	396	100.00 /ea	200		/ea		/ea		596	770
6 Bell Restrainer F/C900	2336.380	1.00 ea	33.00 /mh	33	190.00 /ea	190		/ea		/ea		223	238
Dewatering Pumps & Hoses													
Trench Stabilization Rock	2305.050	5.00 cy	/cy		36.00 /ton	338		/cy		/cy		338	338
Poly Tape	2333.090	1.00 roll	/roll		7.50 /roll	8		/roll		/roll		8	8
Quart of Gasket Lubricant	15150.035	1.00 ea	33.00 /mh	8	8.00 /ea	8		/ea		/ea		8	8
Link Seal Size LS-410-S	15123.100	10.00 ea	33.00 /mh	50	23.00 /ea	230		/ea		/ea		280	301
Grout Pipe in Manhole 6"	2327.090	1.00 ea	33.00 /mh	33	25.00 /ea	25		/ea		/ea		58	73
02605-2 6" PD (Headworks to Site Lift Station)													
Testing Pressure & Leak - Piping	1166.100	2.00 ea	33.00 /mh	528	50.00 /ea	100		50.00 /ea	100	/ea		728	960
Trench Excavation 4- 6'	2333.010	180.00 lf	33.00 /mh	594	/lf			/lf		/lf		594	855
Trench Backfill 4- 6'	2333.020	180.00 lf	33.00 /mh	891	/lf			/lf		/lf		891	1,283
Utility Bedding Peastone	2305.200	60.00 cy	/cy		25.00 /ton	2,400		/cy		/cy		2,400	2,400
Spoils to Waste	2333.060	60.00 cy	33.00 /mh	198	/cy			/cy		/cy		198	285
PVC C-900 Pipe 6 DR-25	2336.310	100.00 lf	33.00 /mh	330	16.50 /lf	1,733		/lf		/lf		2,063	2,208
DI RJ Compact 45 4	2511.514	4.00 ea	33.00 /mh	132	250.00 /ea	1,000		/ea		/ea		1,132	1,190
DI RJ Compact 45 6	2511.514	1.00 ea	33.00 /mh	50	380.00 /ea	380		/ea		/ea		430	451
DI RJ Compact Wye 6	2511.528	2.00 ea	33.00 /mh	132	675.00 /ea	1,350		/ea		/ea		1,482	1,540
DI RJ Compact Wye 6x4	2511.528	1.00 ea	33.00 /mh	50	550.00 /ea	550		/ea		/ea		600	621
DI RJ Compact Solid Sleeve Short 6	2511.523	2.00 ea	33.00 /mh	99	350.00 /ea	700		/ea		/ea		799	843
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.20 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	1,840	3,500.00 /Mnth	700	2,540	2,540
John Deere 624 Loader (172 HP) (M)	1900.132	0.20 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	1,200	3,000.00 /Mnth	600	1,800	1,800
Water Truck, 4,000 Gallon (L)	1900.210	0.20 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	960	1,200.00 /Mnth	240	1,200	1,200
Mikasa Jumping Jack Compactor (L)	1900.138	0.20 Mnth	/Mnth		/Mnth			200.00 /Mnth	40	100.00 /Mnth	20	60	60
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.20 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	500	500.00 /Mnth	100	600	600
Tracer Wire	2333.080	200.00 lf	33.00 /mh	132	0.40 /lf	88		/lf		/lf		220	278
Warning Tape Detectable	2333.080	180.00 lf	33.00 /mh	119	0.08 /lf	14		/lf		/lf		133	185
Polybag 12" and Smaller	2333.090	40.00 lf	33.00 /mh	13	1.00 /lf	44		/lf		/lf		57	63
Pot Hole Existing	2333.010	1.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Cut Existing	2333.010	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Tie to Existing	2333.010	1.00 ea	33.00 /mh	132	50.00 /ea	50		/ea		/ea		182	240
Tracer Wire Test Box	2333.080	3.00 ea	33.00 /mh	594	100.00 /ea	300		/ea		/ea		894	1,155
PVC C-900 Pipe 4 DR-25	2336.310	80.00 lf	33.00 /mh	238	8.00 /lf	672		/lf		/lf		910	1,014
4 Bell Restrainer F/C900	2336.380	4.00 ea	33.00 /mh	132	150.00 /ea	600		/ea		/ea		732	790
6 Bell Restrainer F/C900	2336.380	5.00 ea	33.00 /mh	165	190.00 /ea	950		/ea		/ea		1,115	1,188
6" Romac Style 501 IPS x DI	2519.310	1.00 ea	33.00 /mh	33	850.00 /ea	850		/ea		/ea		883	898
4" Romac Style 501 IPS x DI	2519.310	1.00 ea	33.00 /mh	33	650.00 /ea	650		/ea		/ea		683	698
DI Pipe 4in. dia FxPE - 4ft. 0in.	15221.030	1.00 ea	33.00 /mh	66	450.00 /ea	450		/ea		/ea		516	545
DI Blind Flange 4"	15221.405	1.00 ea	33.00 /mh	33	100.00 /ea	100		/ea		/ea		133	148
NBG Kit 125# 316SS 4in w/ FF EPDM Gasket	15125.012	1.00 ea	33.00 /mh	33	80.00 /ea	80		/ea		/ea		113	128
Poly Tape	2333.090	2.00 roll	/roll		7.50 /roll	17		/roll		/roll		17	17
Quart of Gasket Lubricant	15150.035	2.00 ea	33.00 /mh	16	8.00 /ea	16		/ea		/ea		16	16
Link Seal Size LS-410-S	15123.100	10.00 ea	33.00 /mh	50	23.00 /ea	230		/ea		/ea		280	301
Grout Pipe in Manhole 6"	2327.090	1.00 ea	33.00 /mh	33	25.00 /ea	25		/ea		/ea		58	73
02605-2 8" OF (Site Lift Station to EQ Basin)													
Testing Pressure & Leak - Piping	1166.100	1.00 ea	33.00 /mh	264	50.00 /ea	50		50.00 /ea	50	/ea		364	480
Trench Excavation 8-10'	2333.010	220.00 lf	33.00 /mh	1,815	/lf			/lf		/lf		1,815	2,614
Trench Backfill 8-10'	2333.020	220.00 lf	33.00 /mh	2,178	/lf			/lf		/lf		2,178	3,136
Utility Bedding Peastone	2305.200	73.33 cy	/cy		25.00 /ton	2,933		/cy		/cy		2,933	2,933
Spoils to Waste	2333.060	73.33 cy	33.00 /mh	242	/cy			/cy		/cy		242	348
PVC C-900 Pipe 8 DR-25	2336.310	220.00 lf	33.00 /mh	799	27.50 /lf	6,353		/lf		/lf		7,151	7,502
DI RJ Compact 90 8	2511.514	1.00 ea	33.00 /mh	66	520.00 /ea	520		/ea		/ea		586	615
DI RJ Compact Cap 8	2511.510	1.00 ea	33.00 /mh	66	240.00 /ea	240		/ea		/ea		306	335
DI RJ Compact Solid Sleeve Short 8	2511.523	4.00 ea	33.00 /mh	264	500.00 /ea	2,000		/ea		/ea		2,264	2,380
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.30 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	2,760	3,500.00 /Mnth	1,050	3,810	3,810
John Deere 624 Loader (172 HP) (M)	1900.132	0.30 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	1,800	3,000.00 /Mnth	900	2,700	2,700
Water Truck, 4,000 Gallon (L)	1900.210	0.30 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	1,440	1,200.00 /Mnth	360	1,800	1,800
Mikasa Jumping Jack Compactor (L)	1900.138	0.30 Mnth	/Mnth		/Mnth			200.00 /Mnth	60	100.00 /Mnth	30	90	90
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.30 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	750	500.00 /Mnth	150	900	900
Tracer Wire	2333.080	240.00 lf	33.00 /mh	158	0.40 /lf	106		/lf		/lf		264	334
Warning Tape Detectable	2333.080	220.00 lf	33.00 /mh	145	0.08 /lf	18		/lf		/lf		163	227
Polybag 12" and Smaller	2333.090	60.00 lf	33.00 /mh	20	1.00 /lf	66		/lf		/lf		86	95
Tracer Wire Test Box	2333.080	2.00 ea	33.00 /mh	396	100.00 /ea	200		/ea		/ea		596	770
8 Bell Restrainer F/C900	2336.380	11.00 ea	33.00 /mh	545	260.00 /ea	2,860		/ea		/ea		3,405	3,644
DI Pipe 8in. dia PEXPE - 5ft. 0in.	15221.070	1.00 ea	33.00 /mh	99	610.00 /ea	610		/ea		/ea		709	753
DI Wall Pipe FLG x MJ w/ Weep Ring & Tapped Holes 8in x 2ft 0in long	15221.376	1.00 ea	33.00 /mh	264	1,400.00 /ea	1,400		/ea		/ea		1,664	1,780
NBG Kit 125# 316SS 8in w/ FF EPDM Gasket	15125.012	1.00 ea	33.00 /mh	33	140.00 /ea	140		/ea		/ea		173	188
Valve Check Flange 125# 8in	15110.040	1.00 ea	33.00 /mh	66	2,300.00 /ea	2,300		/ea		/ea		2,366	2,395
DI Blind Flange 8" w/ 2" Tap for Testing	15221.405	1.00 ea	33.00 /mh	50	260.00 /ea	260		/ea		/ea		310	331
Link Seal Size LS-400-S	15123.100	9.00 ea	33.00 /mh	45	23.00 /ea	207		/ea		/ea		252	271
Grout Pipe in Manhole 8"	2327.090	1.00 ea	33.00 /mh	66	25.00 /ea	25		/ea		/ea		91	120
Dewatering Pumps & Hoses													
Trench Stabilization Rock	2305.050	25.00 cy	/cy		36.00 /ton	1,688		/cy		/cy		1,688	1,688
Poly Tape	2333.090	3.00 roll	/roll		7.50 /roll	25		/roll		/roll		25	25
Quart of Gasket Lubricant	15150.035	3.00 ea	33.00 /mh	24	8.00 /ea	24		/ea		/ea		24	24
Flow Fill at Pipe Crossings	3310.105	3.00 cy	33.00 /mh	396	205.00 /cy	646		/cy		/cy		1,042	1,216
02605-2 PW Line													

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
02605-2 PW Line													
Testing Pressure & Leak - Piping	1166.100	2.00 ea	33.00 /mh	528	50.00 /ea	100		50.00 /ea	100	/ea		728	960
Trench Excavtion 6- 8'	2333.010	1,640.00 lf	33.00 /mh	10,824	/lf			/lf		/lf		10,824	15,587
Trench Backfill 6- 8'	2333.020	1,640.00 lf	33.00 /mh	13,530	/lf			/lf		/lf		13,530	19,483
Trench Box 8' Deep	2333.030	900.00 lf	/lf		/lf			/lf		9.00 /lf	8,100	8,100	8,100
Utility Bedding Peastone	2305.200	546.67 cy	/cy		25.00 /ton	21,867		/cy		/cy		21,867	21,867
Spoils to Waste	2333.060	546.67 cy	33.00 /mh	1,804	/cy			/cy		/cy		1,804	2,598
PVC C-900 Pipe 4 DR-11	2336.310	260.00 lf	33.00 /mh	772	9.50 /lf	2,594		/lf		/lf		3,366	3,705
PVC C-900 Pipe 6 DR-11	2336.310	80.00 lf	33.00 /mh	264	19.00 /lf	1,596		/lf		/lf		1,860	1,976
PVC C-900 Pipe 8 DR-11	2336.310	1,300.00 lf	33.00 /mh	4,719	33.50 /lf	45,728		/lf		/lf		50,447	52,523
DI RJ Compact 45 4	2511.514	4.00 ea	33.00 /mh	132	250.00 /ea	1,000		/ea		/ea		1,132	1,190
DI RJ Compact 45 8	2511.514	8.00 ea	33.00 /mh	528	480.00 /ea	3,840		/ea		/ea		4,368	4,600
DI RJ Compact 22-1/2 8	2511.514	4.00 ea	33.00 /mh	264	480.00 /ea	1,920		/ea		/ea		2,184	2,300
DI RJ Compact Tee 8x4	2511.524	2.00 ea	33.00 /mh	132	600.00 /ea	1,200		/ea		/ea		1,332	1,390
DI RJ Compact Tee 8x6	2511.524	1.00 ea	33.00 /mh	66	700.00 /ea	700		/ea		/ea		766	795
DI RJ Compact Red 8x4	2511.520	1.00 ea	33.00 /mh	66	350.00 /ea	350		/ea		/ea		416	445
DI RJ Compact Cap 4	2511.510	1.00 ea	33.00 /mh	33	115.00 /ea	115		/ea		/ea		148	163
DI RJ Compact Cap 8 w/ 2" Tap for Testing	2511.510	4.00 ea	33.00 /mh	132	275.00 /ea	1,100		/ea		/ea		1,232	1,290
DI RJ Compact Solid Sleeve Long 8	2511.522	2.00 ea	33.00 /mh	132	500.00 /ea	1,000		/ea		/ea		1,132	1,190
DI RJ Compact Solid Sleeve Short 4	2511.523	4.00 ea	33.00 /mh	132	250.00 /ea	1,000		/ea		/ea		1,132	1,190
DI RJ Compact Solid Sleeve Short 6	2511.523	2.00 ea	33.00 /mh	99	350.00 /ea	700		/ea		/ea		799	843
Komatsu PC300 Excavator (232 HP) (L)	1900.136	1.73 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	15,916	3,500.00 /Mnth	6,055	21,971	21,971
John Deere 624 Loader (172 HP) (M)	1900.132	1.73 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	10,380	3,000.00 /Mnth	5,190	15,570	15,570
Water Truck, 4,000 Gallon (L)	1900.210	1.73 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	8,304	1,200.00 /Mnth	2,076	10,380	10,380
Mikasa Jumping Jack Compactor (L)	1900.138	1.73 Mnth	/Mnth		/Mnth			200.00 /Mnth	346	100.00 /Mnth	173	519	519
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	1.73 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	4,325	500.00 /Mnth	865	5,190	5,190
Tracer Wire	2333.080	1,700.00 lf	33.00 /mh	1,122	0.40 /lf	748		/lf		/lf		1,870	2,364
Warning Tape Detectable	2333.080	1,640.00 lf	33.00 /mh	1,082	0.08 /lf	131		/lf		/lf		1,214	1,690
3500 psi Thrust Block Concrete	3310.105	4.74 cy	33.00 /mh	626	278.00 /cy	1,384		/cy		/cy		2,010	2,285
Polybag 12" and Smaller	2333.090	900.00 lf	33.00 /mh	297	1.00 /lf	990		/lf		/lf		1,287	1,418
Pot Hole Existing	2333.010	4.00 ea	33.00 /mh	1,056	/ea			/ea		/ea		1,056	1,521
Cross Existing	2333.010	4.00 ea	33.00 /mh	264	100.00 /ea	400		/ea		/ea		664	780
Cut Existing	2333.010	1.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Tie to Existing	2333.010	1.00 ea	33.00 /mh	264	50.00 /ea	50		/ea		/ea		314	430
Support Existing	2333.010	4.00 ea	33.00 /mh	528	50.00 /ea	200		/ea		/ea		728	960
Tracer Wire Test Box	2333.080	8.00 ea	33.00 /mh	1,584	100.00 /ea	800		/ea		/ea		2,384	3,081
Disinfection/Chlorination of PW (Enter Line Size)	1166.100	1.00 ea	33.00 /mh	528	50.00 /ea	50		/ea		/ea		578	810
Valve - Gate 4"	2519.110	4.00 ea	33.00 /mh	132	1,200.00 /ea	4,800		/ea		/ea		4,932	4,990
Valve - Gate 6"	2519.110	5.00 ea	33.00 /mh	330	1,550.00 /ea	7,750		/ea		/ea		8,080	8,225
Valve - Gate 8"	2519.110	4.00 ea	33.00 /mh	264	2,350.00 /ea	9,400		/ea		/ea		9,664	9,780
Valve Box Assembly 6' Bury	2519.130	13.00 ea	33.00 /mh	1,287	320.00 /ea	4,160		/ea		/ea		5,447	6,013
Valve Box 2' Extension	2519.130	13.00 ea	33.00 /mh	215	90.00 /ea	1,170		/ea		/ea		1,385	1,479
Conc Block for Valve	2519.100	13.00 ea	33.00 /mh	429	50.00 /ea	650		/ea		/ea		1,079	1,268
Conc Pad for Valve Box	2519.100	13.00 ea	33.00 /mh	858	75.00 /ea	975		/ea		/ea		1,833	2,211
Valve Stem Extension	2519.100	13.00 ea	33.00 /mh	429	150.00 /ea	1,950		/ea		/ea		2,379	2,568
4 Bell Restrainer F/C900	2336.380	13.00 ea	33.00 /mh	429	150.00 /ea	1,950		/ea		/ea		2,379	2,568
6 Bell Restrainer F/C900	2336.380	4.00 ea	33.00 /mh	132	190.00 /ea	760		/ea		/ea		892	950
8 Bell Restrainer F/C900	2336.380	65.00 ea	33.00 /mh	3,218	260.00 /ea	16,900		/ea		/ea		20,118	21,533
Hydrant Tee 8x6	2510.200	4.00 ea	33.00 /mh	264	740.00 /ea	2,960		/ea		/ea		3,224	3,340
Fire Hydrant	2510.200	4.00 ea	33.00 /mh	3,168	4,600.00 /ea	18,400		/ea		/ea		21,568	22,962
DI Pipe Push - Class 350 6	2511.101	80.00 lf	33.00 /mh	264	30.00 /lf	2,424		/lf		/lf		2,688	2,804
Utility Bedding Stone 3/4"	2305.200	8.00 cy	/cy		36.00 /ton	461		/cy		/cy		461	461
Testing Bac T	1166.100	3.00 ea	33.00 /mh	792	/ea			225.00 /ea	675	/ea		1,467	1,815
Overhead Power Line	5650.100	1.00 ls	/ls		/ls			/ls		0.00 /ls	0		
Poly Tape	2333.090	20.00 roll	/roll		7.50 /roll	165		/roll		/roll		165	165
Quart of Gasket Lubricant	15150.035	20.00 ea	33.00 /mh		8.00 /ea	160		/ea		/ea		160	160
02610- 1" Alum from MBR to Process Basin													
Testing Pressure & Leak - Piping	1166.100	1.00 ea	33.00 /mh	264	50.00 /ea	50		50.00 /ea	50	/ea		364	480
Trench Excavtion 4- 6'	2333.010	220.00 lf	33.00 /mh	871	/lf			/lf		/lf		871	1,255
Trench Backfill 4- 6'	2333.020	220.00 lf	33.00 /mh	1,307	/lf			/lf		/lf		1,307	1,882
Utility Bedding Peastone	2305.200	48.89 cy	/cy		25.00 /ton	1,956		/cy		/cy		1,956	1,956
Spoils to Waste	2333.060	48.89 cy	33.00 /mh	161	/cy			/cy		/cy		161	232
Sch80 1.5" x 1" Asahi Pro-Lock or Equal	2336.110	220.00 lf	33.00 /mh	1,162	25.00 /lf	5,500		/lf		/lf		6,662	7,173
Sch 80 90 1.5" x 1" Asahi Pro-Lock or Equal	2336.120	4.00 ea	33.00 /mh	66	140.00 /ea	560		/ea		/ea		626	655
Sch-80 45 Bend 1.5" x 1" Asahi Pro-Lock or Equal	2336.120	6.00 ea	33.00 /mh	99	167.00 /ea	1,002		/ea		/ea		1,101	1,145
Sch 80 Coupling 1.5" x 1" Asahi Pro-Lock or Equal	2336.180	11.00 ea	33.00 /mh	182	26.00 /ea	286		/ea		/ea		468	547
Sch 80 Termination 1.5" x 1" Asahi Pro-Lock or Equal	2336.130	4.00 ea	33.00 /mh	66	170.00 /ea	680		/ea		/ea		746	775
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.25 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	2,300	3,500.00 /Mnth	875	3,175	3,175
John Deere 624 Loader (172 HP) (M)	1900.132	0.25 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	1,500	3,000.00 /Mnth	750	2,250	2,250
Water Truck, 4,000 Gallon (L)	1900.210	0.25 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	1,200	1,200.00 /Mnth	300	1,500	1,500
Mikasa Jumping Jack Compactor (L)	1900.138	0.25 Mnth	/Mnth		/Mnth			200.00 /Mnth	50	100.00 /Mnth	25	75	75
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.25 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	625	500.00 /Mnth	125	750	750
Warning Tape Detectable	2333.080	220.00 lf	33.00 /mh	145	0.08 /lf	18		/lf		/lf		163	227
Tracer Wire	2333.080	240.00 lf	33.00 /mh	158	0.40 /lf	106		/lf		/lf		264	334
Tracer Wire Test Box	2333.080	4.00 ea	33.00 /mh	792	100.00 /ea	400		/ea		/ea		1,192	1,540
PVC Sch 80 Primer	15211.201	2.00 qt	/qt		45.00 /qt	99		/qt		/qt		99	99
PVC Sch 80 Cement	15211.201	2.00 qt	/qt		50.00 /qt	110		/qt		/qt		110	110
Sch 80 Flange Van Stone 1.5" x 1" Asahi Pro-Lock or equal	15211.223	1.00 ea	33.00 /mh	33	170.00 /ea	170		/ea		/ea		203	218
NBG Kit 125# 316SS 1-1/2in w/ FF EPDM Gasket	15125.012	1.00 ea	33.00 /mh	33	30.00 /ea	30		/ea		/ea		63	78
02610- Influent Sample Line													
Testing Pressure & Leak - Piping	1166.100	1.00 ea	33.00 /mh	264	50.00 /ea	50		50.00 /ea	50	/ea		364	480
Trench Excavtion 4- 6'	2333.010	30.00 lf	33.00 /mh	99	/lf			/lf		/lf		99	143
Trench Backfill 4- 6'	2333.020	30.00 lf	33.00 /mh	149	/lf			/lf		/lf		149	214

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
02610- Influent Sample Line													
Utility Bedding Peastone	2305.200	6.67 cy	/cy		25.00 /ton	267		/cy		/cy		267	267
Spoils to Waste	2333.060	6.67 cy	33.00 /mh	22	/cy			/cy		/cy		22	32
PVC Sch 80 PIPE 4" PE	15211.203	30.00 lf	33.00 /mh	208	9.00 /lf	270		/lf		/lf		478	569
PVC Sch 80 22 bend 4 SOC	2336.120	4.00 ea	33.00 /mh	16	45.80 /ea	183		/ea		/ea		199	206
PVC Sch 80 Coupling 4" SOC	2336.180	2.00 ea	33.00 /mh	8	20.00 /ea	40		/ea		/ea		48	51
PVC Sch 80 Caps 4 SOC	2336.130	2.00 ea	33.00 /mh	8	32.00 /ea	64		/ea		/ea		72	75
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.05 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	460	3,500.00 /Mnth	175	635	635
John Deere 624 Loader (172 HP) (M)	1900.132	0.05 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	300	3,000.00 /Mnth	150	450	450
Water Truck, 4,000 Gallon (L)	1900.210	0.05 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	240	1,200.00 /Mnth	60	300	300
Mikasa Jumping Jack Compactor (L)	1900.138	0.05 Mnth	/Mnth		/Mnth			200.00 /Mnth	10	100.00 /Mnth	5	15	15
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.05 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	125	500.00 /Mnth	25	150	150
Warning Tape Detectable	2333.080	30.00 lf	33.00 /mh	20	0.08 /lf	2		/lf		/lf		22	31
Tracer Wire	2333.080	40.00 lf	33.00 /mh	26	0.40 /lf	18		/lf		/lf		44	56
Tracer Wire Test Box	2333.080	2.00 ea	33.00 /mh	396	100.00 /ea	200		/ea		/ea		596	770
PVC Sch 80 Cement	15211.201	1.00 qt	/qt		50.00 /qt	55		/qt		/qt		55	55
PVC Sch 80 Primer	15211.201	1.00 qt	/qt		45.00 /qt	50		/qt		/qt		50	50
PE Tubing 3/8" ID x 1/2" OD	15219.100	80.00 lf	33.00 /mh	132	1.00 /lf	92		/lf		/lf		224	282
Connect to Equipment and MH	15211.202	2.00 ea	33.00 /mh	20	250.00 /ea	500		/ea		/ea		520	529
PS Expansion Anchor 3/8 x 5in SS	15060.127	20.00 ea	33.00 /mh	33	8.00 /ea	160		/ea		/ea		193	208
PS Strut SS 1-5/8 x 1-5/8	15060.476	10.00 lf	33.00 /mh	99	20.00 /lf	200		/lf		/lf		299	343
PS 2 Piece Clamp SS 4in	15060.518	4.00 ea	33.00 /mh	40	20.00 /ea	80		/ea		/ea		120	137
PS Misc Hardware for Tubing	15060.290	1.00 ls	33.00 /mh	8	200.00 /ls	200		/ls		/ls		208	212
Core Drilled Hole - 4 - 8"	15122.100	1.00 ea	33.00 /mh	33	0.01 /ea	0	450	/ea		/ea		483	498
Link Seal Size LS-300-S	15123.100	10.00 ea	33.00 /mh	50	9.00 /ea	90		/ea		/ea		140	161
Grout Pipe in Manhole 4"	2327.090	1.00 ea	33.00 /mh	33	15.00 /ea	15		/ea		/ea		48	63
0330 4- Encase 24" Central Interceptor Line at PW Crossing													
Other Placement Count	3310.360	1.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Formwork Pipe Encasement	3100.108	199.50 sf	33.00 /mh	1,646	2.00 /sf	419		/sf		/sf		2,065	2,789
Place Pipe Encasement	3310.195	8.43 cy	33.00 /mh	298	175.00 /cy	1,579		/cy		/cy		1,877	2,008
Nails and Hardware	3150.200	199.50 sf	/sf		0.04 /sf	8		/sf		/sf		8	8
Form Ties Specialty	3150.632	15.00 ea	33.00 /mh	99	5.00 /ea	75		/ea		/ea		174	218
Pipe Tie Downs (Medium)	3150.200	5.00 ea	33.00 /mh	825	150.00 /ea	750		/ea		/ea		1,575	1,938
Dimension Lumber	3150.200	199.50 sf	/sf		0.50 /sf	100		/sf		/sf		100	100
Oil SOG Form	3100.310	199.50 sf	/sf		0.02 /sf	4		/sf		/sf		4	4
Finish- Rough	3350.110	87.50 sf	33.00 /mh	26	0.01 /sf	1		/sf		/sf		27	38
Liquid Curing Compounds	3390.170	87.50 sf	33.00 /mh	6	0.06 /sf	5		/sf		/sf		11	14
Rebar Install Self	3200.980	0.60 tn	33.00 /mh	594	/tn			/tn		/tn		594	855
0330 4- Encase 6" WAS at PW Crossing													
Other Placement Count	3310.360	2.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Formwork Pipe Encasement	3100.108	176.00 sf	33.00 /mh	1,452	2.00 /sf	370		/sf		/sf		1,822	2,460
Place Pipe Encasement	3310.195	5.64 cy	33.00 /mh	199	175.00 /cy	1,055		/cy		/cy		1,254	1,342
Nails and Hardware	3150.200	176.00 sf	/sf		0.04 /sf	7		/sf		/sf		7	7
Form Ties Specialty	3150.632	24.00 ea	33.00 /mh	158	5.00 /ea	120		/ea		/ea		278	348
Pipe Tie Downs (Small)	3150.200	12.00 ea	33.00 /mh	1,584	100.00 /ea	1,200		/ea		/ea		2,784	3,481
Dimension Lumber	3150.200	176.00 sf	/sf		0.50 /sf	88		/sf		/sf		88	88
Oil SOG Form	3100.310	176.00 sf	/sf		0.02 /sf	4		/sf		/sf		4	4
Finish- Rough	3350.110	80.00 sf	33.00 /mh	24	0.01 /sf	0		/sf		/sf		24	35
Liquid Curing Compounds	3390.170	80.00 sf	33.00 /mh	5	0.06 /sf	5		/sf		/sf		10	12
Pipe Encasement Rebar	3200.980	0.45 tn	33.00 /mh	475	1,600.00 /tn	720		/tn		/tn		1,195	1,404
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.05 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	460	3,500.00 /Mnth	175	635	635
0330 4- Encase Sewer at PW Crossing													
Other Placement Count	3310.360	4.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Formwork Pipe Encasement	3100.108	450.00 sf	33.00 /mh	3,713	2.00 /sf	945		/sf		/sf		4,658	6,291
Place Pipe Encasement	3310.195	17.48 cy	33.00 /mh	617	175.00 /cy	3,274		/cy		/cy		3,891	4,163
Nails and Hardware	3150.200	450.00 sf	/sf		0.04 /sf	18		/sf		/sf		18	18
Form Ties Specialty	3150.632	48.00 ea	33.00 /mh	317	5.00 /ea	240		/ea		/ea		557	696
Pipe Tie Downs (Small)	3150.200	24.00 ea	33.00 /mh	3,168	100.00 /ea	2,400		/ea		/ea		5,568	6,962
Dimension Lumber	3150.200	450.00 sf	/sf		0.50 /sf	225		/sf		/sf		225	225
Oil SOG Form	3100.310	450.00 sf	/sf		0.02 /sf	9		/sf		/sf		9	9
Finish- Rough	3350.110	200.00 sf	33.00 /mh	59	0.01 /sf	1		/sf		/sf		61	87
Liquid Curing Compounds	3390.170	200.00 sf	33.00 /mh	13	0.06 /sf	12		/sf		/sf		25	31
Pipe Encasement Rebar	3200.980	1.50 tn	33.00 /mh	1,584	1,600.00 /tn	2,400		/tn		/tn		3,984	4,681
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.20 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	1,840	3,500.00 /Mnth	700	2,540	2,540
0330 4- Encase 1" Alum Below MBR													
Other Placement Count	3310.360	2.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Formwork Pipe Encasement	3100.108	79.50 sf	33.00 /mh	656	2.00 /sf	167		/sf		/sf		823	1,111
Place Pipe Encasement	3310.195	2.08 cy	33.00 /mh	74	175.00 /cy	390		/cy		/cy		464	496
Nails and Hardware	3150.200	79.50 sf	/sf		0.04 /sf	3		/sf		/sf		3	3
Form Ties Specialty	3150.632	15.00 ea	33.00 /mh	99	5.00 /ea	75		/ea		/ea		174	218
Pipe Tie Downs (Small)	3150.200	7.00 ea	33.00 /mh	924	100.00 /ea	700		/ea		/ea		1,624	2,031
Dimension Lumber	3150.200	79.50 sf	/sf		0.50 /sf	40		/sf		/sf		40	40
Oil SOG Form	3100.310	79.50 sf	/sf		0.02 /sf	2		/sf		/sf		2	2
Finish- Rough	3350.110	37.50 sf	33.00 /mh	11	0.01 /sf	0		/sf		/sf		11	16
Liquid Curing Compounds	3390.170	37.50 sf	33.00 /mh	2	0.06 /sf	2		/sf		/sf		5	6
Pipe Encasement Rebar	3200.980	0.15 tn	33.00 /mh	158	1,600.00 /tn	240		/tn		/tn		398	468
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.05 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	460	3,500.00 /Mnth	175	635	635
0330 4- Encase Sample Line Below Headorks													
Other Placement Count	3310.360	2.00 ea	/ea		0.01 /ea	0		/ea		/ea		0	0
Formwork Pipe Encasement	3100.108	56.00 sf	33.00 /mh	462	2.00 /sf	118		/sf		/sf		580	783
Place Pipe Encasement	3310.195	1.74 cy	33.00 /mh	61	175.00 /cy	326		/cy		/cy		387	414
Nails and Hardware	3150.200	56.00 sf	/sf		0.04 /sf	2		/sf		/sf		2	2
Form Ties Specialty	3150.632	8.00 ea	33.00 /mh	53	5.00 /ea	40		/ea		/ea		93	116

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
0330 4- Encase Sample Line Below Headorks													
Pipe Tie Downs (Small)	3150.200	4.00 ea	33.00 /mh	528	100.00 /ea	400		/ea		/ea		928	1,160
Dimension Lumber	3150.200	56.00 sf	/sf		0.50 /sf	28		/sf		/sf		28	28
Oil SOG Form	3100.310	56.00 sf	/sf		0.02 /sf	1		/sf		/sf		1	1
Finish- Rough	3350.110	24.00 sf	33.00 /mh	7	0.01 /sf	0		/sf		/sf		7	10
Liquid Curing Compounds	3390.170	24.00 sf	33.00 /mh	2	0.06 /sf	1		/sf		/sf		3	4
Pipe Encasement Rebar	3200.980	0.13 tn	33.00 /mh	137	1,600.00 /tn	208		/tn		/tn		345	406
10 HWK Headworks Building													
drain for grit washer													
02610- drain from new & future grit washer to trench drain 10M201													
Testing Pressure & Leak - Piping	1166.100	1.00 ea	33.00 /mh	264	50.00 /ea	50		50.00 /ea	50	/ea		364	480
Trench Excavtion 4- 6'	2333.010	34.00 lf	33.00 /mh	224	/lf			/lf		/lf		224	323
Trench Backfill 4- 6'	2333.020	34.00 lf	33.00 /mh	281	/lf			/lf		/lf		281	404
Utility Bedding Gravel-Crushed	2305.200	4.54 cy	/cy		25.00 /ton	182		/cy		/cy		182	182
Spoils to Waste	2333.060	5.04 cy	33.00 /mh	17	/cy			/cy		/cy		17	24
PVC Sch-80 Pipe 12	2336.110	34.00 lf	33.00 /mh	842	50.00 /lf	1,700		/lf		/lf		2,542	2,912
PVC Sch 80 45 Bend 12 SOC	2336.120	3.00 ea	33.00 /mh	198	1,750.00 /ea	5,250		/ea		/ea		5,448	5,535
PVC Sch 80 Reducing Wye 12 x 6 SOC	2336.170	3.00 ea	33.00 /mh	396	1,900.00 /ea	5,700		/ea		/ea		6,096	6,270
PVC Sch 80 Coupling Reducer 8 x 3 SOC x SOC	2336.190	2.00 ea	33.00 /mh	66	375.00 /ea	750		/ea		/ea		816	845
PVC Sch-80 Pipe 3 PE	2336.110	12.00 lf	33.00 /mh	139	7.00 /lf	84		/lf		/lf		223	284
PVC Sch 40 90 ell 3 SOC	2336.020	2.00 ea	33.00 /mh	33	16.00 /ea	32		/ea		/ea		65	80
DI MJ Compact Solid Sleeve Long 6	2511.322	1.00 ea	33.00 /mh	66	395.00 /ea	395		/ea		/ea		461	490
DI MEGAFLANGE w/ SS Bolts for DIP 12"	15112.230	2.00 ea	33.00 /mh	264	900.00 /ea	1,800		/ea		/ea		2,064	2,180
DI Wall Pipe MJ x PE 12in x 1ft 6in long into trench drain	15221.320	1.00 ea	33.00 /mh	528	1,350.00 /ea	1,350		/ea		/ea		1,878	2,110
grit NPW flush line													
150-553 stainless steel NPW from grit chamber pump suction 10M402													
Stainless Steel Pipe 3"	15212.005	24.00 lf	33.00 /mh	634	50.00 /lf	1,200		/lf		/lf		1,834	2,112
Stainless Steel Pipe 3" 90 ell	15212.005	2.00 lf	33.00 /mh	66	180.00 /lf	360		/lf		/lf		426	455
Stainless Steel Pipe 3" flange	15212.005	2.00 lf	33.00 /mh	66	150.00 /lf	300		/lf		/lf		366	395
NBG Kit 125# SS 3in	15125.012	2.00 ea	33.00 /mh	33	50.00 /ea	100		/ea		/ea		133	148
grit compact piping													
150-55 80 piping from trough to grit compactor 10M201													
PVC Sch 80 PIPE 4" PE	15211.203	20.00 lf	33.00 /mh	330	9.00 /lf	180		/lf		/lf		510	655
PVC Sch 80 PIPE 10" PE	15211.203	60.00 lf	33.00 /mh	1,584	38.00 /lf	2,280		/lf		/lf		3,864	4,561
PVC Sch 80 90 EL 10" S	15211.207	4.00 ea	33.00 /mh	264	1,900.00 /ea	7,600		/ea		/ea		7,864	7,980
PVC Sch 80 45 EL 10" SOCxSOC	15211.208	2.00 ea	33.00 /mh	132	1,350.00 /ea	2,700		/ea		/ea		2,832	2,890
PVC Sch 80 TEE 10" S	15211.211	1.00 ea	33.00 /mh	66	2,100.00 /ea	2,100		/ea		/ea		2,166	2,195
PVC Sch 80 Straight CPLG 10" S	15211.204	4.00 ea	33.00 /mh	264	250.00 /ea	1,000		/ea		/ea		1,264	1,380
PVC Sch 80 FEM ADPT 10" SXT for clean out	15211.218	2.00 ea	33.00 /mh	132	350.00 /ea	700		/ea		/ea		832	890
PVC Sch 80 Flange Van Stone 4" Soc	15211.223	4.00 ea	33.00 /mh	66	34.00 /ea	136		/ea		/ea		202	231
PVC Sch 80 Flange Van Stone 10" Soc	15211.223	10.00 ea	33.00 /mh	660	260.00 /ea	2,600		/ea		/ea		3,260	3,550
PVC Sch 80 Cement	15211.201	2.00 qt	/qt		50.00 /qt	110		/qt		/qt		110	110
PVC Sch 80 Primer	15211.201	2.00 qt	/qt		45.00 /qt	99		/qt		/qt		99	99
PVC Sch 80 PLUG 10" SPG for cleanout	15211.234	1.00 ea	33.00 /mh	66	600.00 /ea	600		/ea		/ea		666	695
PVC Sch 80 TEE 10X10X4" S	15211.212	1.00 ea	33.00 /mh	99	950.00 /ea	950		/ea		/ea		1,049	1,093
NBG Kit 125# SS 10in	15125.012	4.00 ea	33.00 /mh	198	170.00 /ea	680		/ea		/ea		878	965
PS Strut SS 1-5/8 x 1-5/8	15060.476	30.00 lf	33.00 /mh	297	20.00 /lf	600		/lf		/lf		897	1,028
PS Strut Post Base SS	15060.478	2.00 ea	33.00 /mh	20	52.00 /ea	104		/ea		/ea		124	133
PS 2 Piece Clamp SS 10in	15060.518	8.00 ea	33.00 /mh	132	100.00 /ea	800		/ea		/ea		932	990
PS Expansion Anchor 5/8 x 3-1/2in SS	15060.127	32.00 ea	33.00 /mh	53	20.00 /ea	640		/ea		/ea		693	716
influent supply													
02605- influent Pipe entering building to trench 10M201													
Testing Pressure & Leak - Piping	1166.100	1.00 ea	33.00 /mh	264	50.00 /ea	50		50.00 /ea	50	/ea		364	480
Trench Excavtion 0- 4'	2333.010	42.00 lf	33.00 /mh	208	/lf			/lf		/lf		208	299
Trench Backfill 0- 4'	2333.020	42.00 lf	33.00 /mh	347	/lf			/lf		/lf		347	499
Utility Bedding Gravel-Crushed	2305.200	22.52 cy	/cy		25.00 /ton	901		/cy		/cy		901	901
Spoils to Waste	2333.060	22.52 cy	33.00 /mh	74	/cy			/cy		/cy		74	107
PVC C-900 Pipe 30 DR 25 g	2336.310	42.00 lf	33.00 /mh	693	350.00 /lf	15,435		/lf		/lf		16,128	16,433
30" PVC 45 Deg Bend	2336.320	2.00 ea	33.00 /mh	396	3,500.00 /ea	7,000		/ea		/ea		7,396	7,570
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.03 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	276	3,500.00 /Mnth	105	381	381
John Deere 624 Loader (172 HP) (M)	1900.132	0.03 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	180	3,000.00 /Mnth	90	270	270
Water Truck, 4,000 Gallon (L)	1900.210	0.03 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	144	1,200.00 /Mnth	36	180	180
Mikasa Jumping Jack Compactor (L)	1900.138	0.03 Mnth	/Mnth		/Mnth			200.00 /Mnth	6	100.00 /Mnth	3	9	9
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.03 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	75	500.00 /Mnth	15	90	90
DI Wall Pipe MJ X PE 30in x 1ft 0in long W/ WATER STOP COLLER	15221.304	1.00 ea	33.00 /mh	792	5,400.00 /ea	5,400		/ea		/ea		6,192	6,540
DI MJ Compact Solid Sleeve Long 30	2511.322	1.00 ea	33.00 /mh	396	6,300.00 /ea	6,300		/ea		/ea		6,696	6,870
piping from grit to													
150-55 80 PVC Cement Weld Sch 80 conections from drain to grit 10M403													
PVC Sch 80 PIPE 3" PE	15211.203	20.00 lf	33.00 /mh	264	6.50 /lf	130		/lf		/lf		394	510
PVC Sch 80 PIPE 4" PE	15211.203	20.00 lf	33.00 /mh	264	9.00 /lf	180		/lf		/lf		444	560
PVC Sch 80 PIPE 8" PE	15211.203	20.00 lf	33.00 /mh	660	26.00 /lf	520		/lf		/lf		1,180	1,470
PVC Sch 80 90 EL 3" S	15211.207	2.00 ea	33.00 /mh	26	16.00 /ea	32		/ea		/ea		58	70
PVC Sch 80 90 EL 4" S	15211.207	2.00 ea	33.00 /mh	26	25.00 /ea	50		/ea		/ea		76	88
PVC Sch 80 45 EL 4" SOCxSOC	15211.208	2.00 ea	33.00 /mh	33	65.00 /ea	130		/ea		/ea		163	178
PVC Sch 80 MALE ADPT 3" SXMT	15211.217	1.00 ea	33.00 /mh	17	21.00 /ea	21		/ea		/ea		38	45
PVC Sch 80 Cement	15211.201	2.00 qt	/qt		50.00 /qt	110		/qt		/qt		110	110
PVC Sch 80 Primer	15211.201	2.00 qt	/qt		45.00 /qt	99		/qt		/qt		99	99
PVC Sch 80 Concentric Reducer Coupling 12X8 S	15211.205	1.00 ea	33.00 /mh	33	500.00 /ea	500		/ea		/ea		533	548
PVC Sch 80 WYE 8X8X4" S	15211.214	1.00 ea	33.00 /mh	66	950.00 /ea	950		/ea		/ea		1,016	1,045
PVC Sch 80 VIT UNION 3" S	15211.219	1.00 ea	33.00 /mh	17	52.00 /ea	52		/ea		/ea		69	76
PVC Sch 80 Flange Vanstone 4" S (NNA)	15211.226	3.00 ea	33.00 /mh	40	90.00 /ea	270		/ea		/ea		310	327

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
150-55 80 PVC Cement Weld Sch 80 conections from drain to grit 10M403													
PVC Sch 80 Flange Vanstone 8" S (NNA)	15211.226	3.00 ea	33.00 /mh	99	140.00 /ea	420		/ea		/ea		519	563
20 PBS Process Basin													
chemical injection chemical injection													
150-55 80 chemical injection 20M901 detail 6													
PVC Sch 80 PIPE 1" PE	15211.203	15.00 lf	33.00 /mh	248	1.75 /lf	26		/lf		/lf		274	383
PVC Sch 80 PIPE 1" x 1 1/2 double wall containment pipe	15211.203	20.00 lf	33.00 /mh	330	18.00 /lf	360		/lf		/lf		690	835
PVC Sch 80 90 EL 1" 1 1/2 double wall containment pipe	15211.207	2.00 ea	33.00 /mh	33	75.00 /ea	150		/ea		/ea		183	198
PVC Sch 80 45 EL 1" SOCXSOC double wall	15211.208	2.00 ea	33.00 /mh	33	25.00 /ea	50		/ea		/ea		83	98
PVC Sch 80 45 EL 1" x 1 1/2 double wall containment pipe SOCXSOC	15211.208	2.00 ea	33.00 /mh	33	25.00 /ea	50		/ea		/ea		83	98
PVC Sch 80 Straight CPLG 1" S double wall	15211.204	1.00 ea	33.00 /mh	17	25.00 /ea	25		/ea		/ea		42	49
PVC Sch 80 Straight CPLG 1"x 1 1/2 double wall containment pipe S	15211.204	1.00 ea	33.00 /mh	17	75.00 /ea	75		/ea		/ea		92	99
PVC Sch 80 Flange Van Stone 1" Soc	15211.223	2.00 ea	33.00 /mh	33	12.00 /ea	24		/ea		/ea		57	72
PVC Sch 80 Flange Van Stone 1"x 1 1/2 double wall containment pipe Soc	15211.223	2.00 ea	33.00 /mh	33	170.00 /ea	340		/ea		/ea		373	388
PVC Sch 80 Cement	15211.201	2.00 qt	/qt		50.00 /qt	110		/qt		/qt		110	110
PVC Sch 80 Primer	15211.201	2.00 qt	/qt		45.00 /qt	99		/qt		/qt		99	99
NBG Kit 125# SS 1in	15125.012	2.00 ea	33.00 /mh	33	18.00 /ea	36		/ea		/ea		69	84
NBG Kit 125# SS 1" 1 1/2 double wall containment pipe in	15125.012	2.00 ea	33.00 /mh	33	20.00 /ea	40		/ea		/ea		73	88
PS Strut SS 1-5/8 x 1-5/8	15060.476	16.00 lf	33.00 /mh	158	20.00 /lf	320		/lf		/lf		478	548
PS 2 Piece Clamp SS 1in	15060.518	4.00 ea	33.00 /mh	40	11.00 /ea	44		/ea		/ea		84	101
PS 2 Piece Clamp SS 1" in	15060.518	4.00 ea	33.00 /mh	40	11.00 /ea	44		/ea		/ea		84	101
PS Expansion Anchor 1/2 x 2-3/4in SS	15060.127	24.00 ea	33.00 /mh	40	15.00 /ea	360		/ea		/ea		400	417
23 MBR MBR Building													
chemical clean syste chemical clean system													
150-55 80 PVC Cement Weld Sch 80 MBR chem clean system 23M209													
PVC Sch 80 PIPE 1/2" PE	15211.203	120.00 lf	33.00 /mh	832	0.80 /lf	96		/lf		/lf		928	1,294
PVC Sch 80 PIPE 1.5" PE	15211.203	120.00 lf	33.00 /mh	1,188	2.30 /lf	276		/lf		/lf		1,464	1,987
PVC Sch 80 90 EL 1/2" S	15211.207	16.00 ea	33.00 /mh	111	2.00 /ea	32		/ea		/ea		143	192
PVC Sch 80 90 EL 1.5" S	15211.207	16.00 ea	33.00 /mh	158	5.00 /ea	80		/ea		/ea		238	308
PVC Sch 80 Straight CPLG 1/2" S	15211.204	8.00 ea	33.00 /mh	55	3.00 /ea	24		/ea		/ea		79	104
PVC Sch 80 Straight CPLG 1.5" S	15211.204	8.00 ea	33.00 /mh	79	8.00 /ea	64		/ea		/ea		143	178
PVC Sch 80 MALE ADPT 1/2" SXMT	15211.217	4.00 ea	33.00 /mh	28	4.00 /ea	16		/ea		/ea		44	56
PVC Sch 80 MALE ADPT 1.5" SXMT	15211.217	4.00 ea	33.00 /mh	40	11.00 /ea	44		/ea		/ea		84	101
PVC Sch 80 Flange Van Stone 1.5" Soc	15211.223	4.00 ea	33.00 /mh	40	12.00 /ea	48		/ea		/ea		88	105
PVC Sch 80 Cement	15211.201	3.00 qt	/qt		50.00 /qt	165		/qt		/qt		165	165
PVC Sch 80 Primer	15211.201	3.00 qt	/qt		45.00 /qt	149		/qt		/qt		149	149
PVC Sch 80/VIT UNION 1/2" S	15211.219	4.00 ea	33.00 /mh	28	6.00 /ea	24		/ea		/ea		52	64
PVC Sch 80 Tank Adapter 1/2"	15211.283	2.00 ea	33.00 /mh	14	75.00 /ea	150		/ea		/ea		164	170
PVC Sch 80 Tank Adapter 1-1/2"	15211.283	3.00 ea	33.00 /mh	21	115.00 /ea	345		/ea		/ea		366	375
NBG Kit 125# SS 1-1/2in	15125.012	4.00 ea	33.00 /mh	40	25.00 /ea	100		/ea		/ea		140	157
PS Strut FRP 1-5/8 x 1-5/8	15060.476	120.00 lf	33.00 /mh	1,188	13.00 /lf	1,560		/lf		/lf		2,748	3,271
PS Strut Post Base FRP	15060.478	24.00 ea	33.00 /mh	238	25.00 /ea	600		/ea		/ea		838	942
PS 2 Piece coushin Clamp SS 1/2 in	15060.518	12.00 ea	33.00 /mh	119	5.00 /ea	60		/ea		/ea		179	231
PS 2 Piece coushin Clamp SS 1-1/2in	15060.518	12.00 ea	33.00 /mh	119	13.00 /ea	156		/ea		/ea		275	327
PS Expansion Anchor 5/8 x 3-1/2in SS	15060.127	96.00 ea	33.00 /mh	158	20.00 /ea	1,920		/ea		/ea		2,078	2,148
PVC Valve Ball True Union Viton 1.5" S & T HV-23511A	15211.310	1.00 ea	33.00 /mh	17	0.01 /ea	0		/ea		/ea		17	24
PVC Valve Ball True Union Viton 1.5" S & T HV-23551A	15211.310	1.00 ea	33.00 /mh	17	0.01 /ea	0		/ea		/ea		17	24
Hose for NaOCL 1.5" x 10'	15220.130	10.00 lf	/lf		6.00 /lf	60		/lf		/lf		60	60
Hose for NaOCL 1.5" x 10'	15220.130	10.00 lf	/lf		6.00 /lf	60		/lf		/lf		60	60
braided pvc hose for return line 1/2 x 4'	15220.130	4.00 lf	/lf		3.00 /lf	12		/lf		/lf		12	12
braided pvc hose for return line 1/2 x 4'	15220.130	4.00 lf	/lf		3.00 /lf	12		/lf		/lf		12	12
chemical pipe basin													
02642- Dip MBR Membrain basin 23M202													
Testing Pressure & Leak - Piping	1166.100	2.00 ea	33.00 /mh	528	50.00 /ea	100		50.00 /ea	100	/ea		728	960
DI Pipe MJ - Class 52 36	2511.201	10.00 lf	33.00 /mh	165	295.00 /lf	2,980		/lf		/lf		3,145	3,217
DI MJ Std Wgt Solid Sleeve Long 36	2511.222	1.00 ea	33.00 /mh	528	8,750.00 /ea	8,750		/ea		/ea		9,278	9,510
Polybag 36"	2333.090	20.00 lf	33.00 /mh	7	3.50 /lf	77		/lf		/lf		84	87
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.02 Mnth	/Mnth		/Mnth		9,200.00 /Mnth		184	3,500.00 /Mnth	70	254	254
John Deere 624 Loader (172 HP) (M)	1900.132	0.02 Mnth	/Mnth		/Mnth		6,000.00 /Mnth		120	3,000.00 /Mnth	60	180	180
Water Truck, 4,000 Gallon (L)	1900.210	0.02 Mnth	/Mnth		/Mnth		4,800.00 /Mnth		77	1,200.00 /Mnth	19	96	96
Mikasa Jumping Jack Compactor (L)	1900.138	0.02 Mnth	/Mnth		/Mnth		200.00 /Mnth		3	100.00 /Mnth	2	5	5
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.02 Mnth	/Mnth		/Mnth		2,500.00 /Mnth		40	500.00 /Mnth	8	48	48
DI Wall Pipe MJ x PE w/ Collar 36in x 2ft 0in long	15221.344	1.00 ea	33.00 /mh	792	7,900.00 /ea	7,900		/ea		/ea		8,692	9,040
DI MJ Compact Solid Sleeve Long 36	2511.322	1.00 ea	33.00 /mh	528	8,750.00 /ea	8,750		/ea		/ea		9,278	9,510
02642- Trench & Pipe DI basin drains 23M202													
Trench Excavtion 12-14'	2333.010	102.00 lf	33.00 /mh	606	/lf			/lf		/lf		606	872
Trench Backfill 12-14'	2333.020	102.00 lf	33.00 /mh	774	/lf			/lf		/lf		774	1,115
DI Pipe MJ - Class 52 6	2511.201	102.00 lf	33.00 /mh	337	30.00 /lf	3,091		/lf		/lf		3,427	3,575
Polybag 12" and Smaller	2333.090	102.00 lf	33.00 /mh	34	1.00 /lf	112		/lf		/lf		146	161
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.08 Mnth	/Mnth		/Mnth		9,200.00 /Mnth		736	3,500.00 /Mnth	280	1,016	1,016
John Deere 624 Loader (172 HP) (M)	1900.132	0.08 Mnth	/Mnth		/Mnth		6,000.00 /Mnth		480	3,000.00 /Mnth	240	720	720
Water Truck, 4,000 Gallon (L)	1900.210	0.08 Mnth	/Mnth		/Mnth		4,800.00 /Mnth		384	1,200.00 /Mnth	96	480	480
Mikasa Jumping Jack Compactor (L)	1900.138	0.08 Mnth	/Mnth		/Mnth		200.00 /Mnth		16	100.00 /Mnth	8	24	24
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.08 Mnth	/Mnth		/Mnth		2,500.00 /Mnth		200	500.00 /Mnth	40	240	240
DI Wall Pipe FLG x MJ 8in x 2ft 0in long	15221.308	1.00 ea	33.00 /mh	528	1,200.00 /ea	1,200		/ea		/ea		1,728	1,960
Valve Mud 6" HV-23218	15110.555	1.00 ea	33.00 /mh	528	0.01 /ea	0		/ea		/ea		528	760
Valve Mud 6" HV-23228	15110.555	1.00 ea	33.00 /mh	528	0.01 /ea	0		/ea		/ea		528	760
Valve Mud 6" HV-23238	15110.555	1.00 ea	33.00 /mh	528	0.01 /ea	0		/ea		/ea		528	760
Valve Mud 6" HV-23248	15110.555	1.00 ea	33.00 /mh	528	0.01 /ea	0		/ea		/ea		528	760
DI MJ Wye 6"	15221.460	3.00 ea	33.00 /mh	198	350.00 /ea	1,050		/ea		/ea		1,248	1,335
DI MJ Std Wgt 90 6	2511.214	4.00 ea	33.00 /mh	132	395.00 /ea	1,580		/ea		/ea		1,712	1,770
DI MJ Compact Ell 45 6	2511.314	2.00 ea	33.00 /mh	66	370.00 /ea	740		/ea		/ea		806	835

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
02642- Trench & Pipe DI basin drains 23M202													
DI MJ Compact Solid Sleeve Long 6	2511.322	1.00 ea	33.00 /mh	33	395.00 /ea	395		/ea		/ea		428	443
150-55 80 pvc sch chem pipe at basin naoci and citric acid 23M404													
PVC Sch 80 PIPE 1" PE	15211.203	164.00 lf	33.00 /mh	1,894	1.75 /lf	287		/lf		/lf		2,181	3,015
PVC Sch 80 90 EL 1" S	15211.207	32.00 ea	33.00 /mh	370	3.50 /ea	112		/ea		/ea		482	644
PVC Sch 80 TEE 1" S	15211.211	6.00 ea	33.00 /mh	69	7.00 /ea	42		/ea		/ea		111	142
PVC Sch 80 Straight CPLG 1" S	15211.204	10.00 ea	33.00 /mh	116	75.00 /ea	750		/ea		/ea		866	916
PVC Sch 80 MALE ADPT 1" SXMT	15211.217	8.00 ea	33.00 /mh	92	7.00 /ea	56		/ea		/ea		148	189
PVC Sch 80 Cement	15211.201	2.00 qt	/qt		50.00 /qt	110		/qt		/qt		110	110
PVC Sch 80 Primer	15211.201	2.00 qt	/qt		45.00 /qt	99		/qt		/qt		99	99
PVC Valve Ball True Union Viton 1" S & T	15211.310	8.00 ea	33.00 /mh	55	50.00 /ea	400		/ea		/ea		455	480
PS Strut FRP 1-5/8 x 1-5/8	15060.476	240.00 lf	33.00 /mh	3,960	13.00 /lf	3,120		/lf		/lf		7,080	8,822
PS 2 Piece Clamp SS 1in	15060.518	68.00 ea	33.00 /mh	673	11.00 /ea	748		/ea		/ea		1,421	1,717
PS Expansion Anchor 5/8 x 5 in SS floor and wall supports	15060.127	204.00 ea	33.00 /mh	673	25.00 /ea	5,100		/ea		/ea		5,773	6,069
PVC Sch 80 Reducer Bushing 1 x 1/2 Spigot x SOC	2336.050	8.00 ea	33.00 /mh	132	8.00 /ea	64		/ea		/ea		196	254
PVC injection valve valves	15211.320	8.00 ea	33.00 /mh	132	50.00 /ea	400		/ea		/ea		532	590
versilon 3400 tubing 1" x 50' for connection to injection	15220.120	50.00 lf	33.00 /mh	495	14.00 /lf	700		/lf		/lf		1,195	1,413
tygon 2375C tubing 1" x 50' for connection to injection	15220.120	50.00 lf	33.00 /mh	495	14.00 /lf	700		/lf		/lf		1,195	1,413
1/4 poly tubing to acuator 24'	15220.120	24.00 lf	33.00 /mh	396	50.00 /lf	1,200		/lf		/lf		1,596	1,770
PVC Sch-80 Pipe 1 Bell End	2336.110	20.00 lf	33.00 /mh	106	2.00 /lf	40		/lf		/lf		146	192
PVC Sch 80 90 ell 1 SOC	2336.120	8.00 ea	33.00 /mh	32	2.00 /ea	16		/ea		/ea		48	62
PVC Sch 80/VIT UNION 1" S	15211.219	2.00 ea	33.00 /mh	14	9.00 /ea	18		/ea		/ea		32	38
PVC Valve Ball True Union EPDM 1" S & T	15211.320	2.00 ea	33.00 /mh	14	125.00 /ea	250		/ea		/ea		264	270
chemical storage													
02610- PVC chem sleeve lines and connections 23M210													
Testing Pressure & Leak - Piping	1166.100	7.00 ea	33.00 /mh	1,848	50.00 /ea	350		50.00 /ea	350	/ea		2,548	3,361
Trench Excavtion 4- 6'	2333.010	88.00 lf	33.00 /mh	290	/lf			/lf		/lf		290	418
Trench Excavtion 0- 4'	2333.010	118.00 lf	33.00 /mh	312	/lf			/lf		/lf		312	449
Trench Backfill 4- 6'	2333.020	88.00 lf	33.00 /mh	436	/lf			/lf		/lf		436	627
Trench Backfill 0- 4'	2333.020	118.00 lf	33.00 /mh	389	/lf			/lf		/lf		389	561
Utility Bedding Gravel-Crushed	2305.200	121.79 cy	/cy		25.00 /ton	4,872		/cy		/cy		4,872	4,872
Spolls to Waste	2333.060	122.07 cy	33.00 /mh	403	/cy			/cy		/cy		403	580
1 1/2 x 1" double wall containment pipe	2336.110	24.00 lf	33.00 /mh	277	25.00 /lf	600		/lf		/lf		877	999
PVC Sch 80 Pipe 4 Bell End conduit for carbon and Alkalinity	2336.110	162.00 lf	33.00 /mh	1,871	10.00 /lf	1,701		/lf		/lf		3,572	4,395
1 1/2 90 ell double wall containment pipe	2336.120	2.00 ea	33.00 /mh	23	100.00 /ea	200		/ea		/ea		223	233
PVC Sch-80 Pipe 3 Bell End	2336.110	20.00 lf	33.00 /mh	231	7.00 /lf	140		/lf		/lf		371	473
PVC Sch 80 90 ell 4 SOC conduit for carbon and Alkalinity	2336.120	6.00 ea	33.00 /mh	69	25.00 /ea	150		/ea		/ea		219	250
PVC Sch 80 90 ell 3 SOCconduit for naocl and citric acid	2336.120	2.00 ea	33.00 /mh	23	16.00 /ea	32		/ea		/ea		55	65
1 1/2 double wall containment pipe coupling	2336.180	2.00 ea	33.00 /mh	23	20.00 /ea	40		/ea		/ea		63	73
PVC Sch 80 Coupling 4" SOC for conduit for carbon and Alkinity	2336.180	4.00 ea	33.00 /mh	46	20.00 /ea	80		/ea		/ea		126	147
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.15 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	1,380	3,500.00 /Mnth	525	1,905	1,905
John Deere 624 Loader (172 HP) (M)	1900.132	0.15 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	900	3,000.00 /Mnth	450	1,350	1,350
PVC Sch 80 Coupling 3" SOC	2336.180	2.00 ea	33.00 /mh	23	15.00 /ea	30		/ea		/ea		53	63
Water Truck, 4,000 Gallon (L)	1900.210	0.15 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	720	1,200.00 /Mnth	180	900	900
Mikasa Jumping Jack Compactor (L)	1900.138	0.15 Mnth	/Mnth		/Mnth			200.00 /Mnth	30	100.00 /Mnth	15	45	45
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	0.15 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	375	500.00 /Mnth	75	450	450
pvc braided hose 3/4" x 34' for Alkalinity and carbon	15220.110	1.00 ea	33.00 /mh	8	75.00 /ea	75		/ea		/ea		83	87
Fernco Cplng w/ 2 ea SS Pipe Clamps 4" x 3/4 red for chem sleeves	15112.550	4.00 ea	33.00 /mh	66	35.00 /ea	140		/ea		/ea		206	235
Sleeve w/Ring SS 4" x 18	15121.250	2.00 ea	33.00 /mh	264	550.00 /ea	1,100		/ea		/ea		1,364	1,480
PVC Sch 40 Reducer Bushing 1-1/2 x 3/4 Spigot x SOC	2336.050	2.00 ea	33.00 /mh	23	2.00 /ea	4		/ea		/ea		27	37
PVC Valve Ball True Union Viton 3/4" S & T HV-53310B	15211.310	1.00 ea	33.00 /mh	12	0.01 /ea	0		/ea		/ea		12	17
PVC Valve Ball True Union Viton 3/4" S & T HV-53210B	15211.310	1.00 ea	33.00 /mh	12	0.01 /ea	0		/ea		/ea		12	17
wall Flashing 2" for chemlock penetrations	15403.250	1.00 ea	33.00 /mh	74	150.00 /ea	150		/ea		/ea		224	257
Fernco Cplng w/ 2 ea SS Pipe Clamps 3" x 1" for chem lines	15112.550	6.00 ea	33.00 /mh	198	35.00 /ea	210		/ea		/ea		408	495
Tygon tubing 2375C 1" under slab	2336.010	16.00 lf	33.00 /mh	185	14.00 /lf	224		/lf		/lf		409	490
versalon 3400 tubing 1" under slab	2336.010	16.00 lf	33.00 /mh	185	14.00 /lf	224		/lf		/lf		409	490
pvc braided hose 3/4 to RAS/WAS	15220.110	72.00 lf	33.00 /mh	594	2.00 /lf	144		/lf		/lf		738	999
pvc braided hose 3/4 to basin	15220.110	56.00 lf	33.00 /mh	462	2.00 /lf	112		/lf		/lf		574	777
150-55 80 PVC Cement Weld Sch 80 chemical storage area 23M411													
PVC Sch 80 PIPE 1" PE	15211.203	30.00 lf	33.00 /mh	347	1.75 /lf	53		/lf		/lf		399	551
PVC Sch 80 PIPE 1/2" PE vent piping for chemical manifolds	15211.203	90.00 lf	33.00 /mh	1,040	0.80 /lf	72		/lf		/lf		1,112	1,569
PVC Sch 80 PIPE 2" PE	15211.203	105.00 lf	33.00 /mh	1,213	3.25 /lf	341		/lf		/lf		1,554	2,088
PVC Sch 80 PIPE 3/4" PE	15211.203	10.00 lf	33.00 /mh	116	1.20 /lf	12		/lf		/lf		128	178
PVC Sch 80 PIPE 3" PE	15211.203	80.00 lf	33.00 /mh	924	6.50 /lf	520		/lf		/lf		1,444	1,851
PVC Sch 80 90 EL 1" S	15211.207	2.00 ea	33.00 /mh	23	3.50 /ea	7		/ea		/ea		30	40
PVC Sch 80 90 EL 2" S	15211.207	34.00 ea	33.00 /mh	393	6.00 /ea	204		/ea		/ea		597	769
PVC Sch 80 90 EL 3" S	15211.207	12.00 ea	33.00 /mh	139	16.00 /ea	192		/ea		/ea		331	392
PVC Sch 80 90 EL 1/2" S chemical vent piping for chemical manifolds	15211.207	36.00 ea	33.00 /mh	416	2.00 /ea	72		/ea		/ea		488	671
PVC Sch 80 45 EL 2" SOCxSOC	15211.208	2.00 ea	33.00 /mh	23	15.00 /ea	30		/ea		/ea		53	63
PVC Sch 80 45 EL 3" SOCxSOC	15211.208	3.00 ea	33.00 /mh	35	35.00 /ea	105		/ea		/ea		140	155
PVC Sch 80 TEE 2" S	15211.211	1.00 ea	33.00 /mh	12	22.00 /ea	22		/ea		/ea		34	39
PVC Sch 80 TEE 1/2" S chemical vent piping for chemical manifolds	15211.211	3.00 ea	33.00 /mh	35	5.00 /ea	15		/ea		/ea		50	65
PVC Sch 80 Straight CPLG 2" S	15211.204	3.00 ea	33.00 /mh	35	14.00 /ea	42		/ea		/ea		77	92
PVC Sch 80 TEE 3/4" S	15211.211	1.00 ea	33.00 /mh	12	5.00 /ea	5		/ea		/ea		17	22
PVC Sch 80 Straight CPLG 3" S	15211.204	5.00 ea	33.00 /mh	58	22.00 /ea	110		/ea		/ea		168	193
PVC Sch 80 MALE ADPT 2" SXMT	15211.217	2.00 ea	33.00 /mh	23	17.00 /ea	34		/ea		/ea		57	67
PVC Sch 80 Straight CPLG 1/2" S chemical vent piping for manifolds	15211.204	6.00 ea	33.00 /mh	69	3.00 /ea	18		/ea		/ea		87	118
PVC Sch 80 Cement	15211.201	10.00 qt	/qt		50.00 /qt	550		/qt		/qt		550	550
PVC Sch 80 Primer	15211.201	10.00 qt	/qt		45.00 /qt	495		/qt		/qt		495	495
PVC Sch 80 Concentric Reducer Coupling 2X1 S	15211.205	3.00 ea	33.00 /mh	35	14.00 /ea	42		/ea		/ea		77	92
PVC Sch 80 TEE 2X2X1" S	15211.212	1.00 ea	33.00 /mh	12	16.00 /ea	16		/ea		/ea		28	33
PVC Sch 80/VIT UNION 2" S	15211.219	7.00 ea	33.00 /mh	81	27.00 /ea	189		/ea		/ea		270	305
PVC Sch 80 EPDM UNION 3" S	15211.219	3.00 ea	33.00 /mh	35	52.00 /ea	156		/ea		/ea		191	206

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
150-55 80 PVC Cement Weld Sch 80 chemical storage area 23M411													
PVC Sch 80/VIT UNION 1/2" S	15211.219	3.00 ea	33.00 /mh	35	6.00 /ea	18		/ea		/ea		53	68
PVC Sch 80 Tank Adapter 2"	15211.283	3.00 ea	33.00 /mh	35	185.00 /ea	555		/ea		/ea		590	605
PVC Sch 80 Tank Adapter 3"	15211.283	3.00 ea	33.00 /mh	35	330.00 /ea	990		/ea		/ea		1,025	1,040
PVC Valve Ball True Union Viton 1" S & T HV-53113	15211.310	1.00 ea	33.00 /mh	12	0.01 /ea	0		/ea		/ea		12	17
PVC Valve Ball True Union Viton 2" S & T HV-53201B, HV-53301B, HV53101B HV-53113	15211.310	4.00 ea	33.00 /mh	46	0.01 /ea	0		/ea		/ea		46	67
PS Strut SS 1-5/8 x 1-5/8	15060.476	54.00 lf	33.00 /mh	891	20.00 /lf	1,080		/lf		/lf		1,971	2,363
PS Strut FRP 1-5/8 x 1-5/8	15060.476	5.00 lf	33.00 /mh	83	13.00 /lf	65		/lf		/lf		148	184
PS Strut Post Base SS	15060.478	8.00 ea	33.00 /mh	79	52.00 /ea	416		/ea		/ea		495	530
PS Strut Post Base FRP	15060.478	5.00 ea	33.00 /mh	83	25.00 /ea	125		/ea		/ea		208	244
PVC Valve Ball True Union Viton 3/4" S & T HV-53114, HV-53110B	15211.310	2.00 ea	33.00 /mh	23	0.01 /ea	0		/ea		/ea		23	33
PS 2 Piece Clamp SS 2in	15060.518	18.00 ea	33.00 /mh	178	15.00 /ea	270		/ea		/ea		448	527
PS 2 Piece Clamp SS 3in	15060.518	8.00 ea	33.00 /mh	79	15.00 /ea	120		/ea		/ea		199	234
PS Expansion Anchor 5/8 x 3-1/2in SS	15060.127	76.00 ea	33.00 /mh	125	20.00 /ea	1,520		/ea		/ea		1,645	1,701
PS Clevis Hanger SS 2in	15060.096	2.00 ea	33.00 /mh	20	18.00 /ea	36		/ea		/ea		56	65
PS Threaded Rod 3/8in SS	15060.502	75.00 lf	33.00 /mh	248	4.00 /lf	300		/lf		/lf		548	656
PS Hex Nut SS 1	15060.354	45.00 ea	33.00 /mh	149	3.00 /ea	135		/ea		/ea		284	349
PS Washer Flat 1 SS	15060.576	45.00 ea	33.00 /mh	74	1.00 /ea	45		/ea		/ea		119	152
PS Beam/C Clamp W/ik Nut 1	15060.082	15.00 ea	33.00 /mh	50	50.00 /ea	750		/ea		/ea		800	821
PS Clevis Hanger SS 1/2in	15060.096	13.00 ea	33.00 /mh	129	13.00 /ea	169		/ea		/ea		298	354
PVC Valve Ball True Union Viton 2" S & T HV-53101A, HV-53301A, 53201A	15211.310	3.00 ea	33.00 /mh	35	0.01 /ea	0		/ea		/ea		35	50
Camlock Adapter SS Male x MPT 2" w/cap	15220.600	3.00 ea	33.00 /mh	50	550.00 /ea	1,650		/ea		/ea		1,700	1,721
PS Pipe Stand grout	15060.404	14.00 ea	33.00 /mh	231	10.00 /ea	140		/ea		/ea		371	473
Camlock Adapter SS Female x Shank 2" w/ cap at chem tank	15220.600	1.00 ea	33.00 /mh	17	550.00 /ea	550		/ea		/ea		567	574
Flex Conn 2" chem resistant connection at tank	15112.150	3.00 ea	33.00 /mh	396	250.00 /ea	750		/ea		/ea		1,146	1,320
PS Clevis Hanger SS 1/2in chemical vent	15060.096	12.00 ea	33.00 /mh	198	13.00 /ea	156		/ea		/ea		354	441
PS Threaded Rod 3/8in SS chemical vent	15060.502	96.00 lf	33.00 /mh	317	4.00 /lf	384		/lf		/lf		701	840
PS Washer Flat 3/8 SS chemical vent	15060.576	24.00 ea	33.00 /mh	20	0.20 /ea	5		/ea		/ea		25	33
PS Hex Nut SS 3/8 chemical vent	15060.354	36.00 ea	33.00 /mh	59	0.25 /ea	9		/ea		/ea		68	95
PS C Clamp I-Beam Mal 3/8 chemical vent	15060.084	12.00 ea	33.00 /mh	198	25.00 /ea	300		/ea		/ea		498	585
dewatering drain													
150-55 40 drain from dewatering 23M210, 23M413													
PVC Sch 40 Pipe 6" PE	15211.103	20.00 lf	33.00 /mh	330	11.70 /lf	257		/lf		/lf		587	733
PVC Sch 40 90 Ell Socket x Socket 6	15211.107	1.00 ea	33.00 /mh	17	45.00 /ea	45		/ea		/ea		62	69
PVC Sch 40 Tee SxSxS 6	15211.111	1.00 ea	33.00 /mh	17	54.80 /ea	55		/ea		/ea		71	79
PVC Sch 40 Coupling SOC x SOC 6	15211.104	1.00 ea	33.00 /mh	17	27.20 /ea	27		/ea		/ea		44	51
PVC Sch 80 Flange Van Stone 6" Soc	15211.223	4.00 ea	33.00 /mh	66	53.00 /ea	212		/ea		/ea		278	307
PVC Sch 40 Cement	15211.101	1.00 qt	/qt		35.00 /qt	39		/qt		/qt		39	39
PVC Sch 40 Primer	15211.101	1.00 qt	/qt		45.00 /qt	50		/qt		/qt		50	50
NBG Kit 125# SS 6in	15125.012	4.00 ea	33.00 /mh	132	75.00 /ea	300		/ea		/ea		432	490
PS 2 Piece Clamp SS 6in	15060.518	8.00 ea	33.00 /mh	79	25.00 /ea	200		/ea		/ea		279	314
PS Expansion Anchor 5/8 x 5in SS	15060.127	16.00 ea	33.00 /mh	53	25.00 /ea	400		/ea		/ea		453	476
Fernco Cplng w/ 2 ea SS Pipe Clamps 4"	15112.550	2.00 ea	33.00 /mh	7	35.00 /ea	70		/ea		/ea		77	80
PS Strut Post Base SS	15060.478	4.00 ea	33.00 /mh	66	52.00 /ea	208		/ea		/ea		274	303
PS Strut SS 1-5/8 x 1-5/8	15060.476	20.00 lf	33.00 /mh	198	20.00 /lf	400		/lf		/lf		598	685
dewatering feed pump													
150-55 80 NON pot line for dewatering rotary press equipment 23M210													
PVC Sch 80 PIPE 1.5" PE	15211.203	40.00 lf	33.00 /mh	462	2.30 /lf	92		/lf		/lf		554	757
PVC Sch 80 90 EL 1.5" S	15211.207	12.00 ea	33.00 /mh	139	5.00 /ea	60		/ea		/ea		199	260
PVC Sch 80 Straight CPLG 1.5" S	15211.204	2.00 ea	33.00 /mh	23	8.00 /ea	16		/ea		/ea		39	49
PVC Sch 80 MALE ADPT 1.5" SXMT	15211.217	4.00 ea	33.00 /mh	46	11.00 /ea	44		/ea		/ea		90	111
PVC Sch 80 Flange Van Stone 1.5" Soc	15211.223	4.00 ea	33.00 /mh	46	12.00 /ea	48		/ea		/ea		94	115
PVC Sch 80 Cement	15211.201	1.00 qt	/qt		50.00 /qt	55		/qt		/qt		55	55
PVC Sch 80 Primer	15211.201	1.00 qt	/qt		45.00 /qt	50		/qt		/qt		50	50
PVC Sch 80/VIT UNION 1.5" S	15211.219	4.00 ea	33.00 /mh	46	21.00 /ea	84		/ea		/ea		130	151
NBG Kit 125# SS 1-1/2in	15125.012	4.00 ea	33.00 /mh	66	25.00 /ea	100		/ea		/ea		166	195
PVC Valve Ball True Union Viton 1.5" S & T	15211.310	4.00 ea	33.00 /mh	46	80.00 /ea	320		/ea		/ea		366	387
PS Strut SS 1-5/8 x 1-5/8	15060.476	20.00 lf	33.00 /mh	198	20.00 /lf	400		/lf		/lf		598	685
PS Strut Post Base SS	15060.478	4.00 ea	33.00 /mh	40	52.00 /ea	208		/ea		/ea		248	265
PS 2 Piece Clamp SS 1-1/2in	15060.518	8.00 ea	33.00 /mh	79	13.00 /ea	104		/ea		/ea		183	218
PS Expansion Anchor 1/2 x 2-3/4in SS	15060.127	16.00 ea	33.00 /mh	26	15.00 /ea	240		/ea		/ea		266	278
polymer chem area													
150-55 80 PVC Cement Weld Sch 80 at chem tanks 23M414													
PVC Sch 80 PIPE 1" PE	15211.203	80.00 lf	33.00 /mh	924	1.75 /lf	140		/lf		/lf		1,064	1,471
PVC Sch 80 PIPE 2" PE	15211.203	80.00 lf	33.00 /mh	924	3.25 /lf	260		/lf		/lf		1,184	1,591
PVC Sch 80 90 EL 1" S	15211.207	12.00 ea	33.00 /mh	139	3.50 /ea	42		/ea		/ea		181	242
PVC Sch 80 90 EL 2" S	15211.207	12.00 ea	33.00 /mh	139	6.00 /ea	72		/ea		/ea		211	272
PVC Sch 80 TEE 1" S	15211.211	4.00 ea	33.00 /mh	46	7.00 /ea	28		/ea		/ea		74	95
PVC Sch 80 TEE 2" S	15211.211	4.00 ea	33.00 /mh	46	22.00 /ea	88		/ea		/ea		134	155
PVC Sch 80 Straight CPLG 1" S	15211.204	5.00 ea	33.00 /mh	58	5.00 /ea	25		/ea		/ea		83	108
PVC Sch 80 Straight CPLG 2" S	15211.204	5.00 ea	33.00 /mh	58	14.00 /ea	70		/ea		/ea		128	153
PVC Sch 80 MALE ADPT 1" SXMT	15211.217	4.00 ea	33.00 /mh	46	7.00 /ea	28		/ea		/ea		74	95
PVC Sch 80 MALE ADPT 2" SXMT	15211.217	4.00 ea	33.00 /mh	46	17.00 /ea	68		/ea		/ea		114	135
PVC Sch 80 Flange Van Stone 1" Soc	15211.223	4.00 ea	33.00 /mh	46	12.00 /ea	48		/ea		/ea		94	115
PVC Sch 80 Flange Van Stone 2" Soc	15211.223	4.00 ea	33.00 /mh	46	17.00 /ea	68		/ea		/ea		114	135
PVC Sch 80 Cement	15211.201	2.00 qt	/qt		50.00 /qt	110		/qt		/qt		110	110
PVC Sch 80 Primer	15211.201	2.00 qt	/qt		45.00 /qt	99		/qt		/qt		99	99
PVC Sch 80/VIT UNION 2" S	15211.219	4.00 ea	33.00 /mh	46	27.00 /ea	108		/ea		/ea		154	175
PVC Sch 80/VIT UNION 2" S	15211.219	4.00 ea	33.00 /mh	46	27.00 /ea	108		/ea		/ea		154	175
NBG Kit 125# SS 1in	15125.012	4.00 ea	33.00 /mh	46	18.00 /ea	72		/ea		/ea		118	139
NBG Kit 125# SS 2in	15125.012	4.00 ea	33.00 /mh	46	35.00 /ea	140		/ea		/ea		186	207
PVC Valve Ball True Union Viton 1" S & T polmer skid and tanks	15211.310	6.00 ea	33.00 /mh	69	50.00 /ea	300		/ea		/ea		369	400

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
150-55 80 PVC Cement Weld Sch 80 at chem tanks 23M414													
Valve Ball Threaded SS 2in	15110.014	6.00 ea	33.00 /mh	396	0.01 /ea	0		/ea		/ea		396	570
PS Strut SS 1-5/8 x 1-5/8	15060.476	30.00 lf	33.00 /mh	297	20.00 /lf	600		/lf		/lf		897	1,028
PS Strut Post Base SS	15060.478	6.00 ea	33.00 /mh	59	52.00 /ea	312		/ea		/ea		371	398
PS 2 Piece Clamp SS 2in	15060.518	12.00 ea	33.00 /mh	119	15.00 /ea	180		/ea		/ea		299	351
PS Expansion Anchor 1/2 x 2-3/4in SS	15060.127	4.00 ea	33.00 /mh	7	15.00 /ea	60		/ea		/ea		67	70
Flex Connection 1" to polymer tote	15112.150	2.00 ea	33.00 /mh	88	150.00 /ea	300		/ea		/ea		388	427
Valve Ball Threaded SS 1/2in	15110.014	1.00 ea	33.00 /mh	18	0.01 /ea	0		/ea		/ea		18	26
PS Pipe Strut Clamp SS 1in	15060.486	12.00 ea	33.00 /mh	119	11.00 /ea	132		/ea		/ea		251	303
42 SDL Site Drain Lift Station													
sitump lift station													
150-55 80 pvc Weld Sch 80 lift station drains from site 42M201													
PVC Sch 80 PIPE 6" PE	15211.203	10.00 lf	33.00 /mh	69	17.00 /lf	170		/lf		/lf		239	270
PVC Sch 80 PIPE 12" PE	15211.203	15.00 lf	33.00 /mh	198	80.00 /lf	1,200		/lf		/lf		1,398	1,485
PVC Sch 80 TEE 6" S	15211.211	1.00 ea	33.00 /mh	7	120.00 /ea	120		/ea		/ea		127	130
PVC Sch 80 TEE 12" S	15211.211	1.00 ea	33.00 /mh	33	1,750.00 /ea	1,750		/ea		/ea		1,783	1,798
PVC Sch 80 Cement	15211.201	2.00 qt	/qt		50.00 /qt	110		/qt		/qt		110	110
PVC Sch 80 Primer	15211.201	2.00 qt	/qt		45.00 /qt	99		/qt		/qt		99	99
PS Special Support for 6in Sch 80 PVC - ss M-133	15060.475	2.00 ea	33.00 /mh	132	800.00 /ea	1,600		/ea		/ea		1,732	1,790
PS Special Support for 12in Sch 80 PVC - ss M-133	15060.475	3.00 ea	33.00 /mh	198	950.00 /ea	2,850		/ea		/ea		3,048	3,135
Epoxy Anchor 5/8 x 6in Plain	5001.052	15.00 ea	33.00 /mh	25	15.00 /ea	225		/ea		/ea		250	261
150-55 80 pVC sch 80 from air vac 42M201													
PVC Sch 80 PIPE 1" PE	15211.203	30.00 lf	33.00 /mh	248	1.75 /lf	53		/lf		/lf		300	409
PVC Sch 80 90 EL 1" S	15211.207	8.00 ea	33.00 /mh	66	3.50 /ea	28		/ea		/ea		94	123
PVC Sch 80 Straight CPLG 1" S	15211.204	2.00 ea	33.00 /mh	17	5.00 /ea	10		/ea		/ea		27	34
PVC Sch 80 MALE ADPT 1" SXMT	15211.217	1.00 ea	33.00 /mh	7	7.00 /ea	7		/ea		/ea		14	17
PVC Sch 80/VIT UNION 1" S	15211.219	1.00 ea	33.00 /mh	7	9.00 /ea	9		/ea		/ea		16	19
PS Strut SS 1-5/8 x 1-5/8	15060.476	4.00 lf	33.00 /mh	40	20.00 /lf	80		/lf		/lf		120	137
PS Expansion Anchor 3/8 x 5in SS	15060.127	12.00 ea	33.00 /mh	20	8.00 /ea	96		/ea		/ea		116	125
PS Pipe Strut Clamp SS 1in	15060.486	4.00 ea	33.00 /mh	40	11.00 /ea	44		/ea		/ea		84	101
Heat Trace	16000.001	1.00 ls	/ls		/ls			/ls		/ls			
Insulation Subcontractor	15403.100	1.00 ls	/ls		/ls			/ls		/ls			
400533 HDPE Pipe & Fittings													
01 CIV Civil													
Yard Pipe Yard Pipe													
02616- NPW Line													
Testing Pressure & Leak - Piping	1166.100	4.00 ea	33.00 /mh	1,056	50.00 /ea	200		50.00 /ea	200	/ea		1,456	1,921
Trench Excavation 6'- 8'	2333.010	2,450.00 lf	33.00 /mh	12,128	/lf			/lf		/lf		12,128	17,464
Trench Backfill 6- 8'	2333.020	2,450.00 lf	33.00 /mh	16,170	/lf			/lf		/lf		16,170	23,285
Utility Bedding Peastone	2305.200	816.67 cy	/cy		25.00 /ton	32,667		/cy		/cy		32,667	32,667
Spoils to Waste	2333.060	816.67 cy	33.00 /mh	2,695	/cy			/cy		/cy		2,695	3,881
HD PE Pipe 3 DR 11	2631.301	480.00 lf	33.00 /mh	1,584	4.30 /lf	2,167		/lf		/lf		3,751	4,448
HD PE Pipe 1 DR 11	2631.301	380.00 lf	33.00 /mh	1,254	1.00 /lf	399		/lf		/lf		1,653	2,205
HD PE Pipe 4 DR 11	2631.301	400.00 lf	33.00 /mh	1,980	7.00 /lf	2,940		/lf		/lf		4,920	5,791
HD PE Pipe 2 DR 11	2631.301	60.00 lf	33.00 /mh	198	2.25 /lf	142		/lf		/lf		340	427
HD PE Pipe 6 DR 11	2631.301	880.00 lf	33.00 /mh	5,808	15.50 /lf	14,322		/lf		/lf		20,130	22,686
HD PE Pipe 1.5" DR 11	2631.301	250.00 lf	33.00 /mh	825	1.75 /lf	459		/lf		/lf		1,284	1,647
HD PE 90 bend 1 DR 11	2631.314	20.00 ea	33.00 /mh	660	8.00 /ea	160		/ea		/ea		820	1,110
HD PE 90 bend 1 1/2 DR 11	2631.314	20.00 ea	33.00 /mh	660	9.00 /ea	180		/ea		/ea		840	1,130
HD PE 90 bend 2 DR 11	2631.314	20.00 ea	33.00 /mh	660	10.00 /ea	200		/ea		/ea		860	1,150
HD PE 90 bend 6 DR 11	2631.314	10.00 ea	33.00 /mh	660	55.00 /ea	550		/ea		/ea		1,210	1,500
HD PE 45 bend 6 DR 11	2631.314	24.00 ea	33.00 /mh	1,584	55.00 /ea	1,320		/ea		/ea		2,904	3,601
Komatsu PC300 Excavator (232 HP) (L)	1900.136	2.20 Mnth	/Mnth		/Mnth			9,200.00 /Mnth	20,240	3,500.00 /Mnth	7,700	27,940	27,940
John Deere 624 Loader (172 HP) (M)	1900.132	2.20 Mnth	/Mnth		/Mnth			6,000.00 /Mnth	13,200	3,000.00 /Mnth	6,600	19,800	19,800
HD PE Tee 6 DR 11	2631.320	14.00 ea	33.00 /mh	1,386	80.00 /ea	1,120		/ea		/ea		2,506	3,116
Water Truck, 4,000 Gallon (L)	1900.210	1.10 Mnth	/Mnth		/Mnth			4,800.00 /Mnth	5,280	1,200.00 /Mnth	1,320	6,600	6,600
Mikasa Jumping Jack Compactor (L)	1900.138	2.20 Mnth	/Mnth		/Mnth			200.00 /Mnth	440	100.00 /Mnth	220	660	660
Wacker/Rammer Pad Foot Trench Roller (L)	1900.138	2.20 Mnth	/Mnth		/Mnth			2,500.00 /Mnth	5,500	500.00 /Mnth	1,100	6,600	6,600
HD PE Reducer 06 x 04 DR 11	2631.330	10.00 ea	33.00 /mh	660	40.00 /ea	400		/ea		/ea		1,060	1,350
HD PE Reducer 04 x 02 DR 11	2631.330	10.00 ea	33.00 /mh	660	18.00 /ea	180		/ea		/ea		840	1,130
HD PE Reducer 02 x 01 DR 11	2631.330	6.00 ea	33.00 /mh	198	10.00 /ea	60		/ea		/ea		258	345
Warning Tape Detectable	2333.080	2,450.00 lf	33.00 /mh	1,617	0.08 /lf	196		/lf		/lf		1,813	2,524
Tracer Wire	2333.080	2,500.00 lf	33.00 /mh	1,650	0.40 /lf	1,100		/lf		/lf		2,750	3,476
Valve - Gate 4"	2519.110	7.00 ea	33.00 /mh	462	1,200.00 /ea	8,400		/ea		/ea		8,862	9,065
Valve - Gate 6"	2519.110	7.00 ea	33.00 /mh	462	1,550.00 /ea	10,850		/ea		/ea		11,312	11,515
Valve Box Assembly 6" Bury	2519.130	25.00 ea	33.00 /mh	2,475	320.00 /ea	8,000		/ea		/ea		10,475	11,564
Valve Box 2' Extension	2519.130	25.00 ea	33.00 /mh	413	90.00 /ea	2,250		/ea		/ea		2,663	2,844
Conc Block for Valve	2519.100	36.00 ea	33.00 /mh	594	50.00 /ea	1,800		/ea		/ea		2,394	2,655
Conc Pad for Valve Box	2519.100	25.00 ea	33.00 /mh	1,650	75.00 /ea	1,875		/ea		/ea		3,525	4,251
Valve Stem Extension	2519.100	25.00 ea	33.00 /mh	825	150.00 /ea	3,750		/ea		/ea		4,575	4,938
Yard Hydrant 1" Watts HY-800	2510.200	6.00 ea	33.00 /mh	1,584	750.00 /ea	4,500		/ea		/ea		6,084	6,781
Yard Hydrant 1.5" Watts HY-800	2510.200	3.00 ea	33.00 /mh	792	1,800.00 /ea	5,400		/ea		/ea		6,192	6,540
Yard Hydrant 2" Watts HY-800	2510.200	2.00 ea	33.00 /mh	528	2,200.00 /ea	4,400		/ea		/ea		4,928	5,160
Corporation Valve 1"	2519.422	6.00 ea	33.00 /mh	198	150.00 /ea	900		/ea		/ea		1,098	1,185
Corporation Valve 1.50"	2519.422	3.00 ea	33.00 /mh	99	300.00 /ea	900		/ea		/ea		999	1,043
Corporation Valve 2"	2519.422	2.00 ea	33.00 /mh	132	500.00 /ea	1,000		/ea		/ea		1,132	1,190
McElroy Fusion Machine Pitbull 14 (1"- 4")	1900.500	3.00 Mnth	/Mnth		/Mnth			500.00 /Mnth	1,500	/Mnth		1,500	1,500
6" DR-11 Butt Fuse x MJ	2631.353	22.00 ea	33.00 /mh	1,452	320.00 /ea	7,040		/ea		/ea		8,492	9,131
4" DR-11 Butt Fuse x MJ	2631.353	14.00 ea	33.00 /mh	462	270.00 /ea	3,780		/ea		/ea		4,242	4,445
DI MJ Compact Solid Sleeve Short 6	2511.323	4.00 ea	33.00 /mh	264	360.00 /ea	1,440		/ea		/ea		1,704	1,820
Sleeve Plastic CS-4-12	15121.600	11.00 ea	33.00 /mh	363	100.00 /ea	1,100		/ea		/ea		1,463	1,623
Utility Bedding Stone 3/4"	2305.200	11.00 cy	/cy		36.00 /ton	634		/cy		/cy		634	634

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
02616- NPW Line													
HDPE Male Adpt BF 1"	15215.140	18.00 ea	33.00 /mh	594	33.00 /ea	594		/ea		/ea		1,188	1,449
HDPE Male Adpt BF 1.5"	15215.140	6.00 ea	33.00 /mh	198	39.00 /ea	234		/ea		/ea		432	519
HDPE Male Adpt BF 2"	15215.140	9.00 ea	33.00 /mh	297	50.00 /ea	450		/ea		/ea		747	878
Steel Pipe Galv 1"	15213.204	20.00 lf	33.00 /mh	132	8.00 /lf	165		/lf		/lf		297	355
Steel Pipe Galv 1-1/2"	15213.204	20.00 lf	33.00 /mh	132	12.00 /lf	247		/lf		/lf		379	437
Steel Pipe Galv 2"	15213.204	20.00 lf	33.00 /mh	132	18.00 /lf	371		/lf		/lf		503	561
400559 Slide & Weir Gates													
10 HWK Headworks Building													
<i>* unassigned *</i>													
11-15 Headworks Gates													
Supply Slide Gate Package	11500.050	1.00 ls	/ls		199,300.00 /ls	199,300		/ls		/ls		199,300	199,300
Slide Gate 36" x 48" Self Contained, Embedded	11500.050	5.00 ea	33.00 /mh	5,280	/ea			/ea		/ea		5,280	7,603
Slide Gate 36" x 48" Self Contained, Surface	11500.050	2.00 ea	33.00 /mh	2,112	/ea			/ea		/ea		2,112	3,041
Slide Gate 48" x 48" Self Contained, Embedded	11500.050	2.00 ea	33.00 /mh	2,112	/ea			/ea		/ea		2,112	3,041
Stop Plate and Frame 36" x 36"	11500.070	2.00 ea	33.00 /mh	2,112	/ea			/ea		/ea		2,112	3,041
Grout Equipment	11000.005	26.75 cf	33.00 /mh	3,531	60.00 /cf	1,605		/cf		/cf		5,136	6,690
Anchors for Gates	11500.050	42.00 ea	33.00 /mh	347	30.00 /ea	1,260		/ea		/ea		1,607	1,759
Blockouts in Concrete	3150.194	200.00 sf	33.00 /mh	2,310	2.00 /sf	400		/sf		/sf		2,710	3,726
11 EQB EQ Basin													
<i>* unassigned *</i>													
11-16 EQ Gates													
Supply Gate Package													
Sluice Gate 36" x 24"	11500.060	1.00 ea	33.00 /mh	1,584	/ea			/ea		/ea		1,584	2,281
Sluice Gates Thimble 24"	11500.060	1.00 ea	33.00 /mh	792	/ea			/ea		/ea		792	1,140
Flap Gates	11500.020	1.00 ea	33.00 /mh	528	18,175.00 /ea	18,175		/ea		/ea		18,703	18,935
Flap Gates Thimble 24"	11500.060	1.00 ea	33.00 /mh	528	/ea			/ea		/ea		528	760
Grout Equipment	11000.005	1.00 cf	33.00 /mh	132	60.00 /cf	60		/cf		/cf		192	250
Anchors for Gates	11500.060	8.00 ea	33.00 /mh	66	30.00 /ea	240		/ea		/ea		306	335
20 PBS Process Basin													
<i>* unassigned *</i>													
11-15 Process Basin Gates													
Supply Gate Package													
Weir Gate 48" x 48" Downward Opening, Surface Mounted	11500.050	3.00 ea	33.00 /mh	4,752	/ea			/ea		/ea		4,752	6,843
Weir Gate 48" x 60" Downward Opening, Surface Mounted	11500.050	3.00 ea	33.00 /mh	4,752	/ea			/ea		/ea		4,752	6,843
Weir Gate 60" x 60" Downward Opening, Surface Mounted	11500.050	3.00 ea	33.00 /mh	4,752	/ea			/ea		/ea		4,752	6,843
Flap Gates 16" - Flange connection	11500.020	3.00 ea	33.00 /mh	1,584	/ea			/ea		/ea		1,584	2,281
Grout Equipment	11000.005	18.00 cf	33.00 /mh	2,376	60.00 /cf	1,080		/cf		/cf		3,456	4,501
Anchors for Gates	11500.050	144.00 ea	33.00 /mh	1,188	30.00 /ea	4,320		/ea		/ea		5,508	6,031
23 MBR MBR Building													
<i>* unassigned *</i>													
11-15 MBR Gates													
Supply Slide Gate Package													
Slide Gate 48" x 48" Downward Opening, Surface Mounted	11500.050	5.00 ea	33.00 /mh	7,920	/ea			/ea		/ea		7,920	11,405
Grout Equipment	11000.005	10.00 cf	33.00 /mh	1,320	75.00 /cf	750		/cf		/cf		2,070	2,651
Anchors for Gates	11500.050	80.00 ea	33.00 /mh	660	30.00 /ea	2,400		/ea		/ea		3,060	3,350
407169 Parshall Flume Metering Manhole													
01 CIV Civil													
<i>* unassigned *</i>													
11-500 Parshall Flume Manhole													
Parshall Flumes Manhole	11000.295	1.00 ea	33.00 /mh	1,584	42,185.00 /ea	42,185		/ea		/ea		43,769	44,466
Anchors for Equipment	11000.005	8.00 ea	33.00 /mh	66	30.00 /ea	240		/ea		/ea		306	335
Grout Equipment	11000.005	4.00 cf	33.00 /mh	528	60.00 /cf	240		/cf		/cf		768	1,000
Misc Materials	11000.005	1.00 ea	33.00 /mh		750.00 /ea	750		/ea		/ea		750	750
Spare Parts													
Start up and Training	11000.005	8.00 mnhr	33.00 /mh	264	/mnhr			/mnhr		/mnhr		264	380
Geotextile Fabric	2360.100	3.00 sy	33.00 /mh	99	1.50 /sy	5		/sy		/sy		104	147
Komatsu PC300 Excavator (232 HP) (L)	1900.136	0.16 Mnth	/Mnth		/Mnth			/Mnth	9,200.00 /Mnth	1,472	3,500.00 /Mnth	560	2,032
409000 Instrumentation & Control for Process Sytems													
10 HWK Headworks Building													
<i>* unassigned *</i>													
11-500 Auto Sampler													
Auto Composite Sampler	11000.335	1.00 ea	33.00 /mh	792	11,500.00 /ea	11,500		/ea		/ea		12,292	12,640
Misc Materials	11000.005	1.00 ea	33.00 /mh	264	350.00 /ea	350		/ea		/ea		614	730
Spare Parts													
Start up and Training	11000.005	8.00 mnhr	33.00 /mh	264	/mnhr			/mnhr		/mnhr		264	380
2yr Warranty -													
412213 Bridge Crane System													
23 MBR MBR Building													
Bridge Crane													
14-01 Bridge Crane													
Sub - Hoists & Cranes (in with metal Buiding Sub)													
Hoist Acc -	14600.100	1.00 ea	33.00 /mh		/ea		0	/ea		/ea			
Hoist Electrification	14600.100	1.00 ea	33.00 /mh		/ea			/ea		/ea			
Hoist Remote Controls	14600.100	1.00 ea	33.00 /mh		/ea			/ea		/ea			
Kobelco CK1100G-2 - 110 Ton (332 HP) (L)	1900.100	0.25 mnth	5,629.00 /mnth	1,407	550.00 /mnth	138		/mnth	14,000.00 /mnth	3,500	2,500.00 /mnth	625	5,670
RT Telescopic Forklift (12,000 lb) (130 HP) (L)	1900.300	0.25 Mnth	/Mnth		/Mnth			/Mnth	4,200.00 /Mnth	1,050	1,500.00 /Mnth	375	1,425

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
23 MBR MBR Building													
* unassigned *													
11-03 Chemical Feed - Alkalinity													
Chem Feed System - Skid (Includes all chem skids)	11200.020	1.00 ea	33.00 /mh	1,584	48,278.00 /ea	48,278		/ea		/ea		49,862	50,559
Chem Meter Pump -	11200.030	2.00 ea	33.00 /mh	1,056	/ea			/ea		/ea		1,056	1,521
Calibration Column	11200.020	2.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Pulsation Dampener	11200.020	2.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Back Pressure Valve	11200.020	2.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Pressure Relief Valve	11200.020	2.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Pressure Gauge Assembly	11200.020	4.00 ea	33.00 /mh	528	/ea			/ea		/ea		528	760
Pressure Switch	11200.020	2.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Flow Monitor	11200.020	2.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Start up and Training	11000.005	16.00 mnhr	33.00 /mh	528	/mnhr			/mnhr		/mnhr		528	760
Misc Materials	11000.005	1.00 ea	33.00 /mh		500.00 /ea	500		/ea		/ea		500	500
Anchors for Equipment	11000.005	8.00 ea	33.00 /mh	66	30.00 /ea	240		/ea		/ea		306	335
Grout Equipment	11000.005	1.33 cf	33.00 /mh	176	60.00 /cf	80		/cf		/cf		256	333
Spare Parts	11000.005	1.00 ls	/ls		/ls			/ls		/ls			
3yr Warranty - Pumps	11000.005	1.00 ea	33.00 /mh		/ea			/ea		/ea			
Startup Chemicals -	11000.005	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Chemical Injectors	11200.060	1.00 ea	33.00 /mh	132	500.00 /ea	500		/ea		/ea		632	690
11-03 Chemical Feed - Alum													
Chem Feed System - Skid	11200.020	1.00 ea	33.00 /mh	1,584	0.01 /ea	0		/ea		/ea		1,584	2,281
Chem Meter Pump -	11200.030	2.00 ea	33.00 /mh	1,056	/ea			/ea		/ea		1,056	1,521
Calibration Column	11200.020	2.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Pulsation Dampener	11200.020	2.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Back Pressure Valve	11200.020	2.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Pressure Relief Valve	11200.020	2.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Pressure Gauge Assembly	11200.020	4.00 ea	33.00 /mh	528	/ea			/ea		/ea		528	760
Pressure Switch	11200.020	2.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Chemical Diffuser	11200.020	1.00 ea	33.00 /mh	132	1,100.00 /ea	1,100		/ea		/ea		1,232	1,290
Flow Monitor	11200.020	2.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Start up and Training	11000.005	16.00 mnhr	33.00 /mh	528	/mnhr			/mnhr		/mnhr		528	760
Misc Materials	11000.005	1.00 ea	33.00 /mh		500.00 /ea	500		/ea		/ea		500	500
Anchors for Equipment	11000.005	8.00 ea	33.00 /mh	66	30.00 /ea	240		/ea		/ea		306	335
Grout Equipment	11000.005	1.33 cf	33.00 /mh	176	60.00 /cf	80		/cf		/cf		256	333
Spare Parts	11000.005	1.00 ls	/ls		/ls			/ls		/ls			
3yr Warranty - Pumps	11000.005	1.00 ea	33.00 /mh		/ea			/ea		/ea			
Startup Chemicals -	11000.005	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
11-03 Chemical Feed - Carbon													
Chem Feed System - Skid	11200.020	1.00 ea	33.00 /mh	1,584	0.01 /ea	0		/ea		/ea		1,584	2,281
Chem Meter Pump -	11200.030	2.00 ea	33.00 /mh	1,056	/ea			/ea		/ea		1,056	1,521
Calibration Column	11200.020	2.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Pulsation Dampener	11200.020	2.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Back Pressure Valve	11200.020	2.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Pressure Relief Valve	11200.020	2.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Pressure Gauge Assembly	11200.020	4.00 ea	33.00 /mh	528	/ea			/ea		/ea		528	760
Pressure Switch	11200.020	2.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Chemical Diffuser	11200.020	1.00 ea	33.00 /mh	33	1,100.00 /ea	1,100		/ea		/ea		1,133	1,148
Flow Monitor	11200.020	2.00 ea	33.00 /mh	66	/ea			/ea		/ea		66	95
Start up and Training	11000.005	16.00 mnhr	33.00 /mh	528	/mnhr			/mnhr		/mnhr		528	760
Misc Materials	11000.005	1.00 ea	33.00 /mh		500.00 /ea	500		/ea		/ea		500	500
Anchors for Equipment	11000.005	8.00 ea	33.00 /mh	66	30.00 /ea	240		/ea		/ea		306	335
Grout Equipment	11000.005	1.33 cf	33.00 /mh	176	60.00 /cf	80		/cf		/cf		256	333
Spare Parts	11000.005	1.00 ls	/ls		/ls			/ls		/ls			
3yr Warranty - Pumps	11000.005	1.00 ea	33.00 /mh		/ea			/ea		/ea			
Startup Chemicals -	11000.005	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
434143 High Density Cross Linked Poly Storage Tanks													
23 MBR MBR Building													
* unassigned *													
11-04 Permeate Tank													
Supply HDXLP Tank Package	11000.395	1.00 ls	/ls		102,000.00 /ls	102,000		/ls		/ls		102,000	102,000
HDXLP Tank - 10,300 gal	11000.395	1.00 ea	33.00 /mh	2,112	/ea			/ea		/ea		2,112	3,041
Tank Anchors	11000.395	8.00 ea	33.00 /mh	132	30.00 /ea	240		/ea		/ea		372	430
Tank Clean and Water Test	11000.395	1.00 ea	33.00 /mh	528	/ea			/ea		/ea		528	760
Tank Expansion Joint	11000.395	4.00 ea	33.00 /mh	528	/ea			/ea		/ea		528	760
Tank Ladder	11000.395	1.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Geotextile Fabric under Tank	2360.100	30.00 sy	33.00 /mh	248	5.00 /sy	150		/sy		/sy		398	506
5yr Warranty -	11000.005	1.00 ea	33.00 /mh		/ea			/ea		/ea			
11-04 Alkalinity Tank													
Supply HDXLP Tank Package	11000.395	1.00 ls	/ls		38,375.00 /ls	38,375		/ls		/ls		38,375	38,375
HDXLP Tank - 1600 gal	11000.395	1.00 ea	33.00 /mh	1,056	/ea			/ea		/ea		1,056	1,521
Tank Anchors	11000.395	8.00 ea	33.00 /mh	132	30.00 /ea	240		/ea		/ea		372	430
Tank Clean and Water Test	11000.395	1.00 ea	33.00 /mh	528	/ea			/ea		/ea		528	760
Tank Expansion Joint	11000.395	4.00 ea	33.00 /mh	528	/ea			/ea		/ea		528	760
Tank Ladder	11000.395	1.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Tank Float Gauge	11000.395	1.00 ea	33.00 /mh	132	/ea			/ea		/ea		132	190
Geotextile Fabric under Tank	2360.100	4.00 sy	33.00 /mh	33	5.00 /sy	20		/sy		/sy		53	68
Tank Mixer Units	11200.020	1.00 ea	33.00 /mh	396	/ea			/ea		/ea		396	570
Tank Mixer Support Platform	5001.130	1.00 ea	33.00 /mh	1,056	/ea			/ea		/ea		1,056	1,521
Fill Strainers - Hayward YS 2" PVC	11200.020	1.00 ea	33.00 /mh	66	350.00 /ea	350		/ea		/ea		416	445
5yr Warranty -	11000.005	1.00 ea	33.00 /mh		/ea			/ea		/ea			

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
11-04 Alum Tank													
Supply HDXLP Tank Package	11000.395	1.00 ls	/ls		26,730.00 /ls	26,730		/ls		/ls		26,730	26,730
HDXLP Tank - 2500 gal	11000.395	1.00 ea	33.00 /mh	1,584	/ea			/ea		/ea		1,584	2,281
Tank Anchors	11000.395	8.00 ea	33.00 /mh	132	30.00 /ea	240		/ea		/ea		372	430
Tank Clean and Water Test	11000.395	1.00 ea	33.00 /mh	528	/ea			/ea		/ea		528	760
Tank Expansion Joint	11000.395	4.00 ea	33.00 /mh	528	/ea			/ea		/ea		528	760
Tank Ladder	11000.395	1.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Geotextile Fabric under Tank	2360.100	8.00 sy	33.00 /mh	66	5.00 /sy	40		/sy		/sy		106	135
Fill Strainers - Hayward YS Series 2" PVC	11200.020	1.00 ea	33.00 /mh	66	350.00 /ea	350		/ea		/ea		416	445
5yr Warranty -	11000.005	1.00 ea	33.00 /mh		/ea			/ea		/ea			
11-04 Carbon Storage Tank													
Supply HDXLP Tank Package	11000.395	1.00 ls	/ls		46,965.00 /ls	46,965		/ls		/ls		46,965	46,965
HDXLP Tank - 6650 gal	11000.395	1.00 ea	33.00 /mh	1,584	/ea			/ea		/ea		1,584	2,281
Tank Anchors	11000.395	8.00 ea	33.00 /mh	132	30.00 /ea	240		/ea		/ea		372	430
Tank Clean and Water Test	11000.395	1.00 ea	33.00 /mh	528	/ea			/ea		/ea		528	760
Tank Expansion Joint	11000.395	4.00 ea	33.00 /mh	528	/ea			/ea		/ea		528	760
Tank Ladder	11000.395	1.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Geotextile Fabric under Tank	2360.100	12.00 sy	33.00 /mh	99	5.00 /sy	60		/sy		/sy		159	203
Fill Strainers - Hayward YS Series 2" PVC	11200.020	1.00 ea	33.00 /mh	66	350.00 /ea	350		/ea		/ea		416	445
5yr Warranty -	11000.005	1.00 ea	33.00 /mh		/ea			/ea		/ea			
443119 Packaged Odor Control													
50 ODC Odor Control													
* unassigned *													
11-500 Odor Control - ME-50120, 50125													
Odor Control -	11000.260	1.00 ls	33.00 /mh	5,280	151,150.00 /ls	151,150		/ls		/ls		156,430	158,753
Anchors for Equipment	11000.005	16.00 ea	33.00 /mh	132	30.00 /ea	480		/ea		/ea		612	670
Set Odor Control Fan	11000.260	1.00 ea	33.00 /mh	792	/ea			/ea		/ea		792	1,140
Spare Parts	11000.005	1.00 ls	/ls		/ls			/ls		/ls			
Start up and Training	11000.005	16.00 mnhr	33.00 /mh		/mnhr			/mnhr		/mnhr			
2yr Warranty -	11000.005	1.00 ea	33.00 /mh		/ea			/ea		/ea			
Control Panel	11000.005	1.00 ea	33.00 /mh	264	250.00 /ea	250		/ea		/ea		514	630
Controls	11000.005	1.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Special -heat trace	11000.005	1.00 ea	33.00 /mh	1,584	15,000.00 /ea	15,000		/ea		/ea		16,584	17,281
464123 Eductor Tube Mixer													
20 PBS Process Basin													
* unassigned *													
11-25 Eductor Tube Mixer													
Eductor Mixer Supply	11000.230	1.00 ls	/ls		128,850.00 /ls	128,850		/ls		/ls		128,850	128,850
Eductor Mixer Install	11000.230	9.00 ea	33.00 /mh	3,564	/ea			/ea		/ea		3,564	5,132
Mixer Support Structure	11000.230	9.00 ls	33.00 /mh	3,564	/ls			/ls		/ls		3,564	5,132
Grout Equipment	11000.005	3.00 cf	33.00 /mh	396	60.00 /cf	180		/cf		/cf		576	750
Anchors for Equipment	11000.005	36.00 ea	33.00 /mh	297	30.00 /ea	1,080		/ea		/ea		1,377	1,508
Misc Materials	11000.005	1.00 ea	33.00 /mh		500.00 /ea	500		/ea		/ea		500	500
Start up and Training	11000.005	32.00 mnhr	33.00 /mh	1,056	/mnhr			/mnhr		/mnhr		1,056	1,521
Spare Parts	11000.005	1.00 ls	/ls		/ls			/ls		/ls			
2yr Warranty -	11000.005	1.00 ea	33.00 /mh		/ea			/ea		/ea			
Special -	11000.005	1.00 ea	33.00 /mh		/ea			/ea		/ea			
465131 Fine Bubble Diffuser													
20 PBS Process Basin													
* unassigned *													
11-23 Fine Bubble Diffusers - Process Basin													
Aeration Equipment Supply	11000.010	1.00 ea	/ls		130,800.00 /ls	130,800		/ea		/ea		130,800	130,800
Diffused Air Drop Pipe	11000.010	24.00 ea	33.00 /mh	6,336	/ea			/ea		/ea		6,336	9,124
Diffused Air Drop Pipe Support	11000.010	96.00 ea	33.00 /mh	6,336	/ea			/ea		/ea		6,336	9,124
Diffused Air Header	11000.010	24.00 ea	33.00 /mh	6,336	/ea			/ea		/ea		6,336	9,124
Diffused Air Header Support	11000.010	120.00 ea	33.00 /mh	7,920	/ea			/ea		/ea		7,920	11,405
Diffused Tube Diffusers	11000.010	864.00 ea	33.00 /mh	21,384	/ea			/ea		/ea		21,384	30,793
Diffused Tube Diffuser Supports	11000.010	864.00 ea	33.00 /mh	21,384	/ea			/ea		/ea		21,384	30,793
Diffused Air Drop Leg Purge System	11000.010	24.00 ea	33.00 /mh	6,336	/ea			/ea		/ea		6,336	9,124
Anchors for Equipment	11000.005	3,900.00 ea	33.00 /mh	16,088	6.00 /ea	23,400		/ea		/ea		39,488	46,566
Misc Materials	11000.005	1.00 ea	33.00 /mh		1,500.00 /ea	1,500		/ea		/ea		1,500	1,500
System Test	11000.005	1.00 ea	33.00 /mh	3,168	500.00 /ea	500		/ea		/ea		3,668	5,062
Start up and Training	11000.005	24.00 mnhr	33.00 /mh	792	/mnhr			/mnhr		/mnhr		792	1,140
2yr Warranty -	11000.005	1.00 ea	33.00 /mh		/ea			/ea		/ea			
Spare Parts	11000.005	1.00 ls	/ls		/ls			/ls		/ls			
Flow Conditioner - FCI Vortab Insertion Panel	11000.005	3.00 ea	33.00 /mh	396	2,600.00 /ea	7,800		/ea		/ea		8,196	8,370
40 SLD Aerated Sludge Holding Tank													
* unassigned *													
11-23 Fine Bubble Diffusers - Sludge Tank													
Aeration Equipment Supply	11000.010	1.00 ea	/ls		/ls			/ea		/ea			
Diffused Air Drop Pipe	11000.010	1.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Diffused Air Drop Pipe Support	11000.010	3.00 ea	33.00 /mh	198	/ea			/ea		/ea		198	285
Diffused Air Header	11000.010	1.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Diffused Air Header Support	11000.010	6.00 ea	33.00 /mh	198	/ea			/ea		/ea		198	285
Diffused Air Laterals	11000.010	4.00 ea	33.00 /mh	1,056	/ea			/ea		/ea		1,056	1,521
Diffused Air Lateral Supports	11000.010	12.00 ea	33.00 /mh	396	/ea			/ea		/ea		396	570
Diffused Air Diffusers	11000.010	28.00 ea	33.00 /mh	1,848	/ea			/ea		/ea		1,848	2,661
Diffused Air Drop Leg Purge System	11000.010	1.00 ea	33.00 /mh	264	/ea			/ea		/ea		264	380
Anchors for Equipment	11000.005	42.00 ea	33.00 /mh	347	30.00 /ea	1,260		/ea		/ea		1,607	1,759

Spreadsheet Level	Phase	Takeoff Quantity	Labor Price	Labor Amount	Material Price	Material Amount	Sub Amount	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount	Grand Total
11-23 Fine Bubble Diffusers - Sludge Tank													
Misc Materials	11000.005	1.00 ea	33.00 /mh		250.00 /ea	250		/ea		/ea		250	250
System Test	11000.005	1.00 ea	33.00 /mh	1,056	250.00 /ea	250		/ea		/ea		1,306	1,771
Start up and Training	11000.005	16.00 mnhr	33.00 /mh	528	/mnhr			/mnhr		/mnhr		528	760
2yr Warranty -	11000.005	1.00 ea	33.00 /mh		/ea			/ea		/ea			
Spare Parts	11000.005	1.00 ls	/ls		/ls			/ls		/ls			
Flow Conditioner - FCI Vortab Insertion Panel	11000.005	1.00 ea	33.00 /mh	132	1,500.00 /ea	1,500		/ea		/ea		1,632	1,690



Johnstown Central WWTP Expansion

GMP Schedule with VE Selections

Line	Task ID	Name	Duration	Start	Finish	2022												2023												2024												2025												2026	
						Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	F									
		MILESTONES	821d	10/3/2022	12/31/2025																																																		
1	MS00100	CMAR Award		10/3/2022	10/3/2022	CMAR Award																																																	
2	MS00200	Notice to Proceed		5/1/2023 *	5/1/2023	Notice to Proceed																																																	
3	MS00300	Mobilize	3d	5/1/2023	5/3/2023	Mobilize																																																	
4	MS00400	Startup Influent Pump Station	5d	10/31/2023 *	11/6/2023	Startup Influent Pump Station																																																	
5	MS00500	Startup Plant	10d	8/18/2025	8/29/2025	Startup Plant																																																	
6	MS00600	Substantial Completion		9/2/2025 *	9/2/2025	Substantial Completion																																																	
7	MS00700	Punch List	20d	12/2/2025	12/31/2025	Punch List																																																	
8	MS00800	Final Completion		12/31/2025	12/31/2025 *	Final Completion																																																	
		COMMISSIONING	317d	5/16/2024	8/15/2025																																																		
9	CM00100	IPS	10d	5/16/2024	5/30/2024	IPS																																																	
10	CM00200	Electrical Building	10d	8/30/2024	9/13/2024	Electrical Building																																																	
11	CM00300	Headworks Startup	15d	6/10/2025	6/30/2025	Headworks Startup																																																	
12	CM00400	Site Drain Lift Station	5d	7/1/2025	7/8/2025	Site Drain Lift Station																																																	
13	CM00500	MBR Startup	15d	7/11/2025	7/31/2025	MBR Startup																																																	
14	CM00600	EQ/Process Basins	15d	7/28/2025	8/15/2025	EQ/Process Basins																																																	
15	CM00700	Solids Holding Tank	5d	8/1/2025	8/7/2025	Solids Holding Tank																																																	
		Design	125d	10/3/2022	3/30/2023																																																		
16	DS00100	GMP Document Development	60d	10/3/2022	12/28/2022	GMP Document Development																																																	
17	DS00200	GMP Estimate	35d	12/29/2022	2/16/2023	GMP Estimate																																																	
18	DS00300	Contract Execution	30d	2/17/2023	3/30/2023	Contract Execution																																																	
		PROCUREMENT	275d	5/1/2023	5/30/2024																																																		
19	PR00100	Grit Equipment	220d	5/1/2023	3/13/2024	Grit Equipment																																																	
20	PR00200	Screening Equipment	275d	5/1/2023	5/30/2024	Screening Equipment																																																	
21	PR00300	Gates	220d	5/1/2023	3/13/2024	Gates																																																	
22	PR00400	Pumps	220d	5/1/2023	3/13/2024	Pumps																																																	
23	PR00500	Mixer	220d	5/1/2023	3/13/2024	Mixer																																																	
24	PR00600	Blowers	275d	5/1/2023	5/30/2024	Blowers																																																	
25	PR00700	Electrical Equipment	275d	5/1/2023	5/30/2024	Electrical Equipment																																																	
26	PR00800	Influent Pumps	260d	5/1/2023	5/8/2024	Influent Pumps																																																	
		CONSTRUCTION	651d	5/4/2023	11/26/2025																																																		
		SITE	651d	5/4/2023	11/26/2025																																																		
		SITE WORK	651d	5/4/2023	11/26/2025																																																		
27	SW00100	Stormwater BMP's	13d	5/4/2023	5/22/2023	Stormwater BMP's																																																	
28	SW00200	Dewatering	15d	5/4/2023	5/24/2023	Dewatering																																																	
29	SW00300	Clear & Grub	10d	5/23/2023	6/6/2023	Clear & Grub																																																	
30	SW00400	Generator/Electrical Gear Pads	25d	5/31/2024	7/8/2024	Generator/Electrical Gear Pads																																																	
31	SW00500	Bollards	5d	8/18/2025	8/22/2025	Bollards																																																	
32	SW00600	Fencing	7d	8/25/2025	9/3/2025	Fencing																																																	
33	SW00700	Sidewalk, Curb & Gutter	40d	9/4/2025	10/29/2025	Sidewalk, Curb & Gutter																																																	
34	SW00800	Site Fine Grade	10d	9/25/2025	10/8/2025	Site Fine Grade																																																	
35	SW00900	Seeding	15d	10/9/2025	10/29/2025	Seeding																																																	
36	SW01000	Road Base and Site Roads	5d	10/30/2025	11/5/2025	Road Base and Site Roads																																																	
37	SW01100	Asphalt	15d	11/6/2025	11/26/2025	Asphalt																																																	
		YARD PIPE	480d	8/2/2023	6/23/2025																																																		
38	YP00100	1 - North Interceptor Raw Influent	5d	8/2/2023	8/8/2023	1 - North Interceptor Raw Influent																																																	
39	YP00200	2C - Temp N. Interceptor Pumped to Lagoons	14d	8/9/2023	8/28/2023	2C - Temp N. Interceptor Pumped to Lagoons																																																	
40	YP00300	21 - Potable	40d	5/15/2024	7/12/2024	21 - Potable																																																	
41	YP00400	10B - Solids Holding Header	10d	6/13/2024	6/26/2024	10B - Solids Holding Header																																																	
42	YP00500	10C - Solids Holding Air Header	1d	6/27/2024	6/27/2024	10C - Solids Holding Air Header																																																	
43	YP00600	10A - Process Air Header	7d	6/28/2024	7/10/2024	10A - Process Air Header																																																	
44	YP00700	25 - Alum Addition - MBR to Process Basin	5d	7/11/2024	7/17/2024	25 - Alum Addition - MBR to Process Basin																																																	
45	YP00800	3 - Central Interceptor Raw Influent	32d	7/12/2024	8/26/2024	3 - Central Interceptor Raw Influent																																																	
46	YP00900	22 - NPW	40d	7/15/2024	9/9/2024	22 - NPW																																																	
47	YP01000	4 - Combined Influent Flow to Headworks	11d	8/27/2024	9/11/2024	4 - Combined Influent Flow to Headworks																																																	
48	YP01100	23 - Natural Gas	30d	9/10/2024	10/21/2024	23 - Natural Gas																																																	
49	YP01200	5 - HW to Secondary Splitter	14d	9/12/2024	10/1/2024	5 - HW to Secondary Splitter																																																	
50	YP01300	6 - HW to EQ Basin	8d	10/2/2024	10/11/2024	6 - HW to EQ Basin																																																	
51	YP01400	7 - EQ Basin Discharge	3d	10/14/2024	10/16/2024	7 - EQ Basin Discharge																																																	
52	YP01500	8 - Secondary Process Basin to MBR	7d	10/17/2024	10/25/2024	8 - Secondary Process Basin to MBR																																																	
53	YP01600	24 - Process Basin Overflow to EQ	5d	10/17/2024	10/23/2024	24 - Process Basin Overflow to EQ																																																	

