

Concrete Estimation Cover Sheet

PVSC WALLINGTON PUMP STATION

Project No : _068

Estimation Number: MRS_2068

Bid Date 8-Dec-22

Revision No : 0

Bid Type :

Address: PVSC WALLINGTON PUMP STATION
NEWARK, ESSEX COUNTY, NEW JERSEY.

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Document Issue Date and

Authority : -----

Date & Place of Bid

Opening : -----

Duration :

Specifications :

Addendum :

Drawing Used For Estimate :

STRUCTURAL DRAWINGS

1. S-001 TO S-502 DATED ON 02/18/2022 (AS PER THE LATEST DATE)

Inclusion : **BUILDING**

1. Continuous Footing, Concrete Wall, Concrete Slab, Concrete Beam, Grade Beam,
Mat Footing, Slab On Grade, Topping Slab, Pile Cap, Deck Slab & Concrete Pier.

Exclusion:

1.Storm Sewer and electrical structures not listed in quote
2.Manhole,Inlets, Etc., If any
3.Cmu Walls .
4.precaste Elements.

Assumptions :

Notes :

Concrete Estimation Takeoff Sheet

PVSC WALLINGTON PUMP STATION
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Bid Date : 08-Dec-22

1. Estimated Qty by Elements *BUILDING*

Sac	Qty in Cubic Yard	Elements
25	2	CONTINUOUS FOOTING
24	27	MAT FOOTING
41	101	CONCRETE WALL
86	14	TOPPING SLAB
22	16	PILE CAP
56	4	CONCRETE PIER
32	22	SLAB ON GRADE
60	3	CONCRETE BEAM
85	4	SLAB ON METAL DECK
81	34	CONCRETE SLAB
29	19	GRADE BEAM
	246	Total Qty in Cubic Yard
Total Concrete Qty in this Project		246 Cubic yard

BUILDING

Total Concrete Qty in this Project-

246 Cubic yard

Concrete Quantity Estimation Takeoff Sheet

PVSC WALLINGTON PUMP STATION
NEWARK, ESSEX COUNTY, NEW JERSEY.

BUILDING

S.NO	SAC	DESCRIPTION	MULTI	LENGTH (FT)	BREADTH (FT)	DEPTH (FT)	QUANTITY (CFT)
1		BUILDING					
2	25	CONTINUOUS FOOTING					
3	25	2'-0" WIDE FOOTING REF. W7/S-302 (29 LFT)					
4	25	SIZE - 29'-0"X2'-0"X12"	1	29	2	1	58.00
5	25						
6	25	SUB TOTAL @CONTINUOUS FOOTING					58.00
7	25					SAY ROUND OFF	60.00
8							
9	24	MAT FOOTING- REF- S-100					
10	24	MAT FOOTING REF. W2/S-301 (215 SQ.FT)					
11	24	AREA - 215 SQ.FT X 1'-7"	1	215		1.57	337.55
12	24	AREA - 125 SQ.FT X 2'-6"	1	125		2.5	312.50
13	24						
14	24	REF. C2/S-502 (36 SQ.FT)					
15	24	AREA - 36 SQ.FT X 2'-0"	1	36		2	72.00
16	24						
17	24	REF. C2/S-502 (15 SQ.FT)					
18	24	AREA - 15 SQ.FT X 0'-10"	1	15		0.83	12.45
19	24						
20	24	SUB TOTAL @MAT FOOTING					734.50
21	24					SAY ROUND OFF	735.00
22							
23	41	CONCRETE WALL					
24	41	10" THK WALL (7.83' H) REF. W7/S-302 (16 LFT)					
25	41	SIZE - 16'-0"X0'-10"X7'-10"	1	16	0.83	7.83	103.98
26	41						
27	41	10" THK WALL (5.5' H) REF. W7/S-302 (8 LFT)					
28	41	SIZE - 8'-0"X0'-10"X5'-6"	1	8	0.83	5.5	36.52
29	41						
30	41	10" THK WALL (3.0' H) REF. W7/S-302 (5 LFT)					
31	41	SIZE - 5'-0"X0'-10"X3'-0"	1	5	0.83	3	12.45
32	41						
33	41	REF. W5/S-302 (61 LFT)					
34	41	SIZE - 61'-0"X1'-0"X3'-4"	1	61	1	3.33	203.13
35	41						
36	41	REF. W5A/S-302(6.5 LFT)					
37	41	SIZE - 6'-6"X1'-6"X3'-4"	1	6.5	1.5	3.33	32.47
38	41						
39	41	REF. W4/S-302 (50 LFT)					
40	41	SIZE - 50'-0"X1'-2"X5'-2"	1	50	1.17	5.17	302.45
41	41						
42	41	REF. W1/S-301 (9 LFT)					
43	41	SIZE - 9'-0"X1'-2"X5'-2"	1	9	1.17	5.17	54.44
44	41						
45	41	14" THK WALL REF. W2/S-301 (21 LFT)					
46	41	SIZE - 21'-0"X1'-2"X23'-3"	1	21	1.17	23.25	571.25
47	41						
48	41	14" THK WALL REF. W2/S-301 (21 LFT)					
49	41	SIZE - 21'-0"X1'-2"X23'-3"	1	21	1.17	23.25	571.25
50	41						
51	41	CONCRETE WALL REF. W1/S-301 (16 LFT)					
52	41	SIZE - 16'-0"X1'-2"X6'-6"	1	16	1.17	6.5	121.68
53	41	SIZE - 16'-0"X1'-10"X11'-3"	1	16	1.83	11.25	329.40
54	41	SIZE - 16'-0"X2'-2"X5'-0"	1	16	2.17	5	173.60
55	41						
56	41	REF. ML23/S-403 (13 LFT)					
57	41	SIZE - 13'-0"X3'-5"X2'-0"	1	13	3.42	2	88.92
58	41						
59	41	REF. ML17/S-403 (8 LFT)					
60	41	SIZE - 8'-0"X1'-5"X2'-1"	1	8	1.42	2.08	23.63
61	41						
62	41	REF. ML18/S-403 (8 LFT)					
63	41	SIZE - 8'-0"X1'-5"X2'-9"	1	8	1.42	2.75	31.24
64	41						
65	41	REF. SECTION X1 (42 LFT)					
66	41	SIZE - 42'-0"X0'-6"X1'-6"	1	42	0.5	1.5	31.50
67	41						
68	41	4" THK WALL (4.5 LFT)					
69	41	SIZE - 4'-6"X0'-4"X14'-0"	1	4.5	0.33	14	20.79
70	41						
71	41	INFILL WALL					
72	41	SIZE - 3'-6"X1'-0"X5'-0"	1	3.5	1	5	17.50
73	41						
74	41	SUB TOTAL @CONCRETE WALL					2726.20
75	41					SAY ROUND OFF	2725.00
76							

Concrete Quantity Estimation Takeoff Sheet

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BUILDING

S.NO	SAC	DESCRIPTION	MULTI	LENGTH (FT)	BREADTH (FT)	DEPTH (FT)	QUANTITY (CFT)
77	86	TOPPING SLAB					
78	86	6" THK TOPPING SLAB (725 SQ.FT)					
79	86	AREA - 725SQ.FT X 6"	1	725		0.5	362.50
80	86						
81	86	SUB TOTAL @TOPPING SLAB					362.50
82	86					SAY ROUND OFF	365.00
83							
84	22	PILE CAP					
85	22	PC3 (6 EACH)					
86	22	AREA - 23SQ.FT X 3'-0"	6	23		3	414.00
87	22						
88	22	REF. F1/S-108 (1 EACH)					
89	22	SIZE - 5'-0"X2'-0"X3'-0"	1	5	2	3	30.00
90	22						
91	22	SUB TOTAL @PILE CAP					444.00
92	22					SAY ROUND OFF	445.00
93							
94	56	CONCRETE PIER					
95	56	PIER REF. S1/S-108 (6 EACH)					
96	56	SIZE - 1'-8"X1'-8"X1'-6"	1	1.67	1.67	1.5	4.18
97	56						
98	56	PIER REF. C1/S-502					
99	56	SIZE - 4'-5"X1'-8"X10'-9"	1	4.42	1.67	10.75	79.35
100	56						
101	56	PIER TOP-97.0'					
102	56	SIZE - 1'-6"X1'-7"X10'-9"	1	1.5	1.58	10.75	25.48
103	56						
104	56	PIER					
105	56	SIZE - 1'-8"X1'-8"X3'-6"	1	1.67	1.67	3.5	9.76
106	56						
107	56	SUB TOTAL @CONCRETE PIER					118.77
108	56					SAY ROUND OFF	120.00
109							
110	32	SLAB ON GRADE					
111	32	6" THK STAIRCASE WAIST SLAB REF. W7/S-302 (37 SQ.FT)					
112	32	AREA - 37SQ.FT X 6"	1	37		0.5	18.50
113	32						
114	32	8" THK LANDING SLAB REF. W7/S-302 (45 SQ.FT)					
115	32	AREA - 45SQ.FT X 8"	1	45		0.67	30.15
116	32						
117	32	6" THK RAMP SLAB (365 SQ.FT)					
118	32	AREA - 365SQ.FT X 6"	1	365		0.5	182.50
119	32						
120	32	6" THK RAMP SLAB (311 SQ.FT)					
121	32	AREA - 311SQ.FT X 6"	1	311		0.5	155.50
122	32						
123	32	REF. ST2/S-203 (10 LFT)					
124	32	SIZE - 10'-0"X5'-9"X2'-2"	1	10	5.75	2.17	124.78
125	32	SIZE - 3'-7"X2'-5"X1'-0"	1	3.58	2.52	1	9.02
126	32						
127	32	8" THK GENERATOR PAD REF. ML24/S-403 (70 SQ.FT)					
128	32	AREA - 70SQ.FT X 8"	1	70		0.67	46.90
129	32	SIZE - 33'-6"X0'-8"X1'-4"	1	33.5	0.67	1.33	29.85
130	32						
131	32	SUB TOTAL @SOG					597.20
132	32					SAY ROUND OFF	600.00
133							
134	60	CONCRETE BEAM					
135	60	12 X 24 BEAM (50 LFT)					
136	60	SIZE - 50'-0"X1'-0"X1'-4"	1	50	1	1.33	66.50
137	60						
138	60	SUB TOTAL @CONCRETE BEAM					66.50
139	60					SAY ROUND OFF	70.00
140							
141	85	SLAB ON METAL DECK					
142	85	7" THK DECK SLAB (91 SQ.FT)					
143	85	AREA - 91SQ.FT X 5"	1	91		0.42	38.22
144	85	AREA - 46SQ.FT X 2"	1	46		0.17	7.82
145	85						
146	85	5" THK DECK SLAB (165 SQ.FT)					
147	85	AREA - 165SQ.FT X 2"	1	165		0.17	28.05
148	85	AREA - 83SQ.FT X 3"	1	83		0.25	20.75
149	85						
150	85	SUB TOTAL @SLAB ON METAL DECK					94.84
151	85					SAY ROUND OFF	95.00
152							

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BUILDING

S.NO	SAC	DESCRIPTION	MULTI	LENGTH (FT)	BREADTH (FT)	DEPTH (FT)	QUANTITY (CFT)
153	81	CONCRETE SLAB					
154	81	8" THK SLAB REF. S-102 (475 SQ.FT)					
155	81	AREA - 475SQ.FT X 8"	1	475		0.67	318.25
156	81						
157	81	REF. ML14/S-402 (11 SQ.FT)					
158	81	AREA - 11SQ.FT X 6"	1	11		0.5	5.50
159	81	SIZE - 6'-0"X0'-3"X1'-9"	1	6	0.25	1.75	2.63
160	81						
161	81	8" THK SLAB (795 SQ.FT)					
162	81	AREA - 795SQ.FT X 8"	1	795		0.67	532.65
163	81						
164	81	REF. R8/S-202 (21 SQ.FT)					
165	81	AREA - 21SQ.FT X 2"	1	21		0.17	3.57
166	81						
167	81	6" THK CONCRETE SLAB REF. R4/S-202					
168	81	AREA - 85SQ.FT X 6"	1	85		0.5	42.50
169	81						
170	81	SUB TOTAL @CONCRETE SLAB					905.10
171	81					SAY ROUND OFF	905.00
172							
173	29	GRADE BEAM					
174	29	GB24X24 (90 LFT)					
175	29	SIZE - 90'-0"X2'-0"X1'-6"	1	90	2	1.5	270.00
176	29						
177	29	GB24X24 (81 LFT)					
178	29	SIZE - 81'-0"X2'-0"X1'-6"	1	81	2	1.5	243.00
179	29						
180	29	SUB TOTAL @GRADE BEAM					513.00
181	29					SAY ROUND OFF	515.00
182							
183							
184							
185							
186							
187							
188		TOTAL @CONCRETE BUILDING				TOTAL CFT	6635.00
189						TOTAL CUBIC YARD	246