

MATERIAL TAKEOFF AND COST ESTIMATE

CONCRETE TAKEOFF



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 Contact:
 QTO #
 Update:

SR.	DRAWING	DETAIL	CSI NO	DESCRIPTION	QTY.	WASTE	TOTAL QTY.	UNIT	UNIT PRICE	TOTAL PRICE
			01000	DIVISION 01 - GENERAL REQUIREMENTS						
1				General Requirements	1			LS	\$0	\$0
					Subtotal					
			03000	DIVISION 03 - CONCRETE						
			03300	CAST-IN-PLACE CONCRETE						
2				(12"Thk.) Reinforced concrete strip footing "WF12.0" - 580 SF	21.5	5%	22.6	CY	\$0	\$0
3	FO101	1/FO201		(18"Thk.) Reinforced concrete strip footing "WF18.0" - 1,260 SF	46.8	5%	49.1	CY	\$0	\$0
4				Compact subgrade	1840	10%	2024.0	SF	\$0	\$0
5				(12"Thk.) Reinforced concrete column footing - "WF4.0x4.0" - 16 EA	9.5	5%	10.0	CY	\$0	\$0
6	FO101	3/FO201		(18"Thk.) Reinforced concrete column footing - "WF8.0x8.0" - 12 EA	42.6	5%	44.7	CY	\$0	\$0
7				(24"Thk.) Reinforced concrete column footing - "WF12.0x12.0" - 6 EA	64	5%	67.2	CY	\$0	\$0
8				Compact subgrade	1728	10%	1900.8	SF	\$0	\$0
9				(8"Thk., 46"H) Reinforced concrete foundation wall - "W8.0" - 116 LF	12.95	5%	13.6	CY	\$0	\$0
10	FO101	1/FO201		(10"Thk., 5'6"H) Reinforced concrete foundation wall - "W10.0" - 80 LF	13.65	5%	14.3	CY	\$0	\$0
11				(12"Thk., 5'6"H) Reinforced concrete foundation wall - "W12.0" - 60 LF	12.25	5%	12.9	CY	\$0	\$0
12				(18"x18") Reinforced concrete pier - "P18x18" - 16 EA	6	5%	6.3	CY	\$0	\$0
13	FO101	3/FO201		(18"x24") Reinforced concrete pier - "P18x24" - 12 EA	7.3	5%	7.7	CY	\$0	\$0
14				(24"x24") Reinforced concrete pier - "P24x24" - 6 EA	4.8	5%	5.0	CY	\$0	\$0
15				(18"x18") Reinforced concrete grade beam - "GB18" - 80 LF	6.6	5%	6.9	CY	\$0	\$0
16	FO101	4/FO201		(24"x24") Reinforced concrete grade beam - "GB24" - 120 LF	17.8	5%	18.7	CY	\$0	\$0
17				(18"x24") Reinforced concrete floor beam - "B1" - 150 LF	16.6	5%	17.4	CY	\$0	\$0
18	S101 - S103	4/S301		(18"x30") Reinforced concrete floor beam - "B2" - 230 LF	31.9	5%	33.5	CY	\$0	\$0
19	FO101	FO201		Mat Foundation Slab as: - (24"Thk.) Reinforced concrete slab (410 CY) - (12"Thk.) Geo-grid reinforced crushed stone bed (230 CY) - Compact subgrade w/ Min. 10 Ton smooth vibratory roller	5530	5%	5806.5	SF	\$0	\$0
20	FO101	2/FO401		Slab on Grade as: - (6"Thk.) WWR Reinf. concrete slab incl. haunches (100 CY) - (10ML.) Vapor barrier - (12" Thk.) Compacted coarse granular fill (165 CY) - Compact subgrade	4410	5%	4630.5	SF	\$0	\$0
21	FO101	5/FO201		Slab on Grade as: - (8"Thk.) Rebar Reinforced concrete slab incl. haunches (18 CY) - (10ML.) Vapor barrier - (12" Thk.) Compacted coarse granular fill (20 CY) - Compact subgrade	560	5%	588.0	SF	\$0	\$0
22	FO100 S100	S501		Slab on Grade as: - (6"Thk.) One-way Rebar Reinf. concrete slab (15 CY) - (10ML.) Vapor barrier - (8"Thk.) Compacted crushed stone (20 CY) - Compact subgrade	780	5%	819.0	SF	\$0	\$0
23	FO101	3,6/FO201		Reinforced concrete Ramp as: - Reinf. concrete slab incl. walls (8 CY) - (12" Thk.) Compacted coarse granular fill (5 CY) - Compact subgrade	130	5%	136.5	SF	\$0	\$0
24	S101 - S104	1/S401		(3-1/4"Thk.) WWF Reinf. L.W Concrete topping (930 SF) <i>Note: Metal deck taken separate & corrugation factor added</i>	10	5%	10.5	CY	\$0	\$0
25	S101 - S103	1/S301		(8"Thk.) Reinforced concrete floor slab - "S8.0" - 38,400 SF	952	5%	999.6	CY	\$0	\$0
26	S104	1/S301		(6"Thk.) Reinforced concrete roof slab - "S6.0" - 12,800 SF	238	5%	249.9	CY	\$0	\$0
27	S104	6/S304		(6"Thk.) Reinforced concrete parapet wall - 360 LF	26.6	5%	27.9	CY	\$0	\$0
28	S101	4/S303		(6"Thk.x6"H) Reinforced concrete curb	460	5%	483.0	LF	\$0	\$0
29	S101	2/S303		(6"Thk.) Reinforced concrete houskeeping pad	180	5%	189.0	SF	\$0	\$0

			03542	CEMENT-BASED SELF-LEVELING UNDERLAYMENT						
30	A600	Specs.		Hydraulic cement-based self leveling underlayment	3960	5%	4158.0	SF	\$0	\$0
			03548	PRE-CAST CONCRETE PANELS						
31	A201	3/A301 6/A350		Pre-cast Concrete Watertable as: - (6"Thk.) Pre-cast concrete panel - Smooth formliner finish - (4"Thk.) XPS Rigid insulation - Sheet membrane waterproofing	480	5%	504.0	SF	\$0	\$0
			03500	ARCHITECTURAL PRE-CAST CONCRETE (APC)						
32	A201 - A202	2/A324		(Max.10"Thk.x9"H) Reinforced profiled terracotta cornice	365	5%	383.3	LF	\$0	\$0
33	A201 - A202	2/A324		(Max.6"Thk.x9"H) Reinforced terracotta sill	187	5%	196.4	LF	\$0	\$0
34	A053	4/A056		(1/4"Wx5"Thk.) Arch. pre-cast concrete coping w/ three way flashing	20	5%	21.0	LF	\$0	\$0
			03733	CONCRETE REPAIR WORK						
35	A101	3/A322		Concrete wall repair (Avg. 2" Deep) at scattered locations as: - Sound out and remove loose, spalled & deteriorated concrete wall - Wire brush, clean, prime & apply anti-rust coating over reinforcement - Apply bonding agent and repair w/ structural repair concrete - Apply breathable coating over exposed concrete wall	200	5%	210.0	SF	\$0	\$0
36	A101	8/A323		Prepare and repair crack in concrete wall using epoxy injection method	50	5%	52.5	LF	\$0	\$0
37	A035	1,2/A322		Sound out and remove all loose, spalled and deteriorated portion of concrete treads, risers, cheek wall and platform etc. Prepare area and repair w/ structural repair concrete	300	5%	315.0	SF	\$0	\$0
38	A100 A105	3/A302		Spall repair for overhead concrete slab as: - Remove loose, cracked and deteriorated portion of concrete slab - Wire brush, clean, prime and apply anti-corrosive coating - Add galv. steel welded wiremesh as required - Apply bonding agent - Repair concrete using structural repair mortar - Prime and paint upon complete curing of surface	660	5%	693.0	SF	\$0	\$0
39	A100 A106	5/A302		Spall repair for concrete wall as: - Chip out loose, spalled and deteriorated concrete down to solid substrate - Clean and apply SIKA Armatec 110 coating - Repair wall w/ SIKA top 123 repair mortar - Apply (Min. 2 coat) SIKA Ferrogard coating	410	5%	430.5	SF	\$0	\$0
40	A100 A101	7/A302		Concrete beam repair as: - Remove cracked, loose and deteriorated portion of concrete beam - Scrape, prime and paint exposed reinforcement - Reinforce concrete beam - Repair w/ structural repair concrete to match existing	235	5%	246.8	SF	\$0	\$0
41	A105	9/A302		Concrete repair at access door as: - Remove loose, cracked and deteriorated portion of concrete slab - Wire brush, clean, prime and apply anti-corrosive coating - Add galv. steel welded wiremesh as required - Apply bonding agent - Repair concrete using structural repair mortar	30	5%	31.5	SF	\$0	\$0
42	A105			Concrete beam encasement repair as: - Remove plaster at face on concrete encased steel beam - Repair cracks/ damaged surface - Restore plaster finish to match existing	55	5%	57.8	SF	\$0	\$0
43	A200			Repair concrete steps incl. landing slab at entry vestibule to match existing	25	5%	26.3	SF	\$0	\$0
			03735	CONCRETE ROOF FILL AND SCREED REPAIR WORK						
44	A106	1/A420		Remove loose, cracked and deteriorated portion of fill and screed. Prepare and repair using structural repair mortar (Avg. 2"Thk.)	4140	5%	4347.0	SF	\$0	\$0
45				(Avg. 2"Thk.) Repair/ replace mortar for fill/ screed to achieve positive slope towards roof drain	4140	5%	4347.0	SF	\$0	\$0
			03736	EPOXY INJECTION REPAIR WORK						
46	A101 - A106	2/A322		Remove loose concrete at cracked surface, clean, provide ports and repair cracks w/ epoxy resin	300	5%	315.0	LF	\$0	\$0
47	A101	7/A321		Crack repair by port injection method at scattered locations as: - Route (1/2" Deep) concrete at crack - Drill and insert ports - Inject injection epoxy adhesive - Remove ports - Touch-up and complete surface w/ modified repair mortar - Apply finish coat to match existing	50	5%	52.5	LF	\$0	\$0
				Subtotal						
			31000	DIVISION 31 - EARTHWORK						
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48	C202	FO131		Excavation for building footings @ 20% fluff factor	120	5%	126.0	CY	\$0	\$0
49	C202	FO131		Backfill @ 20% fluff factor	46	5%	48.3	CY	\$0	\$0
50	FO131	S431		Fill under slab to achieve SOG subgrade level	1795	5%	1884.8	CY	\$0	\$0
51	FO131	S431		(6"Thk.) Compacted aggregate under slab & beam	24	5%	25.2	CY	\$0	\$0
				Subtotal						
Exclusions:					Abbreviations:					
1: N/A					w/ <> with ; o.c <> on center ; incl. <> including ; Reinf. <> Reinforced					