

Date: 26 September 2012

Rebar Estimation

To: M/S
Attn.:
Subject: Rebar Estimation

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Rebar Estimation Summary:

Building	Rebar Weight (lb)
Administration building	76,427.25
Classroom Assembly building	66,633.20
Maintenance building	16,514.20
Simulation Center building	33,561.20
Unit Storage building	55,027.20
Civil building	26,193.20
TOTAL WEIGHT:	274,356.25

Administration Building:

Isolated Footings							
NAME	LENGTH (ft)	WIDTH (ft)	BAR SIZE (ft)	WEIGHT PER FOOT	NB OF BARS	NB OF ELEMENT	TOTAL WEIGHT (lb)
F80	8	8	5	1.043	22	2	367.136
F90	9	9	5	1.043	24	18	4055.184

Spread Footings							
NAME	LENGTH (ft)	WIDTH (ft)	BAR SIZE (ft)	WEIGHT PER FOOT	NB OF BARS	NB OF ELEMENT	TOTAL WEIGHT (lb)
WF40	14	4	5	1.043	4	4	233.632
	14	4	5	1.043	14	4	233.632
WF50	30	5	5	1.043	5	3	469.35
	30	5	5	1.043	30	3	469.35
WF60	372	6	5	1.043	6	2	4655.952
	372	6	5	1.043	372	2	4655.952
WF80	30	8	5	1.043	14	1	438.06
	30	8	5	1.043	60	1	500.64

Slab On grade				
LENGTH (ft)	WIDTH (ft)	area (ft)	WEIGHT PER FOOT	TOTAL WEIGHT (lb)
253	122	30866	0.21	6481.86

Walls + Parapet				
LENGTH (ft)	WIDTH (ft)	BAR SIZE (ft)	WEIGHT PER FOOT	TOTAL WEIGHT (lb)
750	34	5	1.043	53193

Stair						
LENGTH (ft)	WIDTH (ft)	BAR SIZE (ft)	WEIGHT PER FOOT	NB OF BARS	NB OF ELEMENT	TOTAL WEIGHT (lb)
35	6	5	1.043	7	2	511.07
35	6	3	0.376	36	2	162.432

Administration Building	
TOTAL WEIGHT (lb)	76,427.25

Classroom Assembly building:

Isolated Footings							
Name	Length (Ft)	Width (Ft)	Bar Size (Ft)	Weight Per Foot	Nb Of Bars	Nb Of Element	Total Weight (Lb)
F80	8	8	5	1.043	22	11	2019.248

Spread Footings							
Name	Length (Ft)	Width (Ft)	Bar Size (Ft)	Weight Per Foot	Nb Of Bars	Nb Of Element	Total Weight (Lb)
WF35	900	3.5	5	1.043	4	1	3,754.800
	900	3.5	5	1.043	900	1	3,285.450
WF50	33	5	5	1.043	5	1	172.095
	33	5	5	1.043	33	1	172.095
WF60	95	6	5	1.043	6	1	594.510
	95	6	5	1.043	95	1	594.510
WF80	31	8	5	1.043	14	1	452.662
	31	8	5	1.043	62	1	517.328

Slab On grade				
Length(Ft)	Width (Ft)	Area	Weight Per Foot	Total Weight(Lb)
211	145	30595	0.21	6,424.95

WALLS + PARAPET				
Length (Ft)	Width (Ft)	Bar Size (Ft)	Weight Per Foot	Total Weight (Lb)
1060	22	5	1.043	48,645.52

Classroom Assembly Building	
TOTAL WEIGHT (lb)	66,633.17

Maintenance Building:

Isolated Footings							
Name	Length (Ft)	Width (Ft)	Bar Size (Ft)	Weight Per Foot	Nb Of Bars	Nb Of Element	Total Weight (Lb)
F50	5	5	6	1.502	16	6	720.960
F60	9	6	6	1.502	14	6	757.008
F60	9	6	6	1.502	9	6	729.972
F120	15	12	6	1.502	23	6	4,974.624
F120	15	12	6	1.502	18	6	2,433.240
F130	13	13	6	1.502	30	2	1,171.560

Slab On grade				
Length (Ft)	Width (Ft)	Area (Ft)	Weight Per Foot	Total Weight (Lb)
65	65	4225	0.21	887.25

WALLS + PARAPET				
Length (Ft)	Width (Ft)	Bar Size (Ft)	Weight Per Foot	Total Weight (Lb)
290	8	5	1.043	4,839.52

Maintenance building	
TOTAL WEIGHT(lb)	16,514.13

Simulation Center building:

Spread Footings							
Name	Length (Ft)	Width (Ft)	Bar Size (Ft)	Weight Per Foot	Nb Of Bars	Nb Of Element	Total Weight (Lb)
WF30	600	3	5	1.043	3	1	1877.4
	600	3	5	1.043	600	1	1877.4
WF35	110	3.5	5	1.043	4	1	458.92
	110	3.5	5	1.043	110	1	401.555

Slab On grade				
Length(Ft)	Width(Ft)	Area (Ft)	Weight Per Foot	Total Weight(Lb)
66	165	10890	0.21	2286.9

WALLS + PARAPET				
Length(Ft)	Width(Ft)	Bar Size(Ft)	Weight Per Foot	Total Weight(Lb)
710	18	5	1.043	26,659.08

Simulation Center Building	
TOTAL WEIGHT(lb)	33,561.26

Unit Storage building:

Isolated Footings							
Name	Length (Ft)	Width (Ft)	Bar Size (Ft)	Weight Per Foot	Nb Of Bars	Nb Of Element	Total Weight (Lb)
F50	5	5	6	1.502	24	4	720.96
F55	5.5	5.5	6	1.502	24	4	793.06
F60	8	6	6	1.502	12	8	1,730.30
F60	8	6	6	1.502	9	8	865.15
F70	9	7	6	1.502	14	3	883.18
F70	9	7	6	1.502	10	3	405.54
F80	11	8	6	1.502	17	4	1,634.18
F80	11	8	6	1.502	12	4	793.06
F90	13	9	6	1.502	18	21	10,219.61
F90	13	9	6	1.502	14	21	5,740.64
F130	13	13	6	1.502	30	14	8,200.92

Slab On grade				
Length (Ft)	Width (Ft)	Area (Ft)	Weight Per Foot	Total Weight (Lb)
345	135	46575	0.21	9,780.75

Walls + Parapet				
Length (Ft)	Width (Ft)	Bar Size (Ft)	Weight Per Foot	Total Weight (Lb)
1305	5	4	0.668	8,717.40
340	10	4	0.668	4,542.40

Unit Storage building	
TOTAL WEIGHT (lb)	55,027.14

Civil Building:

Fire Protection Area						
LENGTH (Ft)	WIDTH (Ft)	Bar Size (Ft)	WEIGHT PER FOOT	Number Of Bars	Total Weight (Lb)	
45	22	8	2.67	90	5286.6	
45	22	8	2.67	44	5286.6	
12	17	4	0.668	16	181.696	
12	17	4	0.668	23	184.368	
28	15	5	1.043	28	438.06	
28	15	5	1.043	15	438.06	
Total:					11,815.384	

Wall						
	LENGTH (Ft)	WIDTH (Ft)	Bar Size (Ft)	WEIGHT PER FOOT	Number Of Bars	Total Weight (Lb)
Sluice Gate	20	6	5	1.043	24	150.192
	20	6	5	1.043	8	166.88
	4	4	4	0.668	12	32.064
Cross Grating No2	65	4	5	1.043	30	125.16
	65	4	5	1.043	6	406.77
special Inlet No36	30	6	4	0.668	45	180.36
	30	6	4	0.668	9	180.36
Chiller N01 and 2	116	4	4	0.668	116	309.952
	116	4	4	0.668	4	309.952
Chiller N03	90	3	5	1.043	264	826.056
	90	3	4	0.668	9	541.08
Chiller N04	91	3	5	1.043	264	826.056
	91	3	4	0.668	9	547.092
Chiller N05	64	3	5	1.043	188	588.252
	64	3	4	0.668	9	384.768
Total:					5,574.994	

Slab Reinf.						
	Length (Ft)	Width (Ft)	Bar Size (Ft)	Weight Per Foot	Number Of Bars	Total Weight (Lb)
Sluice Gate	5	5	5	1.043	20	104.3
	5	5	5	1.043	20	104.3
	5	5	4	0.668	16	53.44
Cross Grating No2	26	5	5	1.043	30	156.45
	26	5	5	1.043	6	162.708
Special Inlet No36	8	7	5	1.043	20	146.02
	8	7	5	1.043	16	133.504
	8	7	4	0.668	12	56.112
	8	7	4	0.668	11	58.784
Chiller N01 and 2	33	27	4	0.668	66	1,190.376
	33	27	4	0.668	54	1,190.376
	9	19	3	0.376	9	64.296
	9	19	3	0.376	19	64.296
Chiller N03	30	16	4	0.668	60	641.28
	30	16	4	0.668	32	641.28
	22	7	3	0.376	22	57.904
	22	7	3	0.376	7	57.904
Chiller N04	19	17	4	0.668	38	431.528
	19	17	4	0.668	34	431.528
	11	7	3	0.376	11	28.952
	11	7	3	0.376	7	28.952
Chiller N05	17	15	4	0.668	34	340.68
	17	15	4	0.668	30	340.68
	7	6	3	0.376	7	15.792
	7	6	3	0.376	6	15.792
Semi automatic bollards-model-b-30	24	4	5	1.043	8	33.376
	24	4	5	1.043	48	1,201.536
(5)Fixed-30=Bollards-8"DIA pipe	20	4	5	1.043	8	33.376
	20	4	5	1.043	40	834.4
(2)Fixed-30=Bollards-8"DIA pipe	8	4	5	1.043	8	33.376
	8	4	5	1.043	16	133.504
SingleFixed-30=Bollards-8"DIA pipe	2	2	4	0.668	6	8.016
	2	2	4	0.668	6	8.016
Total:						8,802.834

Civil Building	
TOTAL WEIGHT (lb)	26,193.212