

PROJECT ADDRESS
 Date of submission
 Date of plans
METAL FRAMING

METAL FRAMING ESTIMATE



SR #	DWG. NO.	DETAIL NO.	CSI NO.	DESCRIPTION	QTY.	WASTE	QTY. W/ WASTE	UNIT	UNIT COST	TOTAL COST	Sub Totals
05 00 00 METALS											
1ST FLOOR STRUCTURAL STEEL											
Columns											
1	S-200			W10X33 (12'-0" High) (09 EA)	3564	10%	3,920	LB	\$ 3.58	\$ 14,019	
2	S-200			W10X39 (12'-0" High) (02 EA)	936	10%	1,030	LB	\$ 3.58	\$ 3,682	
3	S-200			W10X45 (12'-0" High) (06 EA)	3240	10%	3,564	LB	\$ 3.58	\$ 12,745	
4	S-200			W10X49 (12'-0" High) (01 EA)	588	10%	647	LB	\$ 3.58	\$ 2,313	
5	S-200			W10X60 (12'-0" High) (01 EA)	720	10%	792	LB	\$ 3.58	\$ 2,832	
6	S-200			W10X68 (12'-0" High) (02 EA)	1632	10%	1,795	LB	\$ 3.58	\$ 6,420	
7	S-200			W10X77 (12'-0" High) (02 EA)	1848	10%	2,033	LB	\$ 3.58	\$ 7,269	
8	S-200			W10X88 (12'-0" High)(04 EA)	4224	10%	4,646	LB	\$ 3.58	\$ 16,616	
9	S-200			W10X100 (12'-0" High) (03 EA)	3600	10%	3,960	LB	\$ 3.58	\$ 14,161	
10	S-200			W10X112 (12'-0" High) (01 EA)	1344	10%	1,478	LB	\$ 3.58	\$ 5,287	
11	S-200			W12X122 (12'-0" High) (01 EA)	1464	10%	1,610	LB	\$ 3.58	\$ 5,759	
12	S-200			W12X136 (12'-0" High) (01 EA)	1632	10%	1,795	LB	\$ 3.58	\$ 6,420	
Baseplates											
13	S-200	S-210		BP-1 Size: 1'-4" x 1'-4" X 1" Thick (4) 1" Dia F1554 GR 55 Anchor Rods	15	0%	15	EA	\$ 130.00	\$ 1,950	
14	S-200	S-210		BP-2 Size: 1'-4" x 1'-4" X 1" Thick (4) 1" Dia F1554 GR 55 Anchor Rods	17	0%	17	EA	\$ 130.00	\$ 2,210	
15	S-200	S-210		BP-3 Size: 1'-8" x 1'-8" X 1" Thick (4) 1" Dia F1554 GR 55 Anchor Rods	1	0%	1	EA	\$ 140.00	\$ 140	
Divider Beam											
16	S-200	S-310		HSS6X4X1/2 Divider Beam (8'-6" LF) W/ - (2) 3/8" x 5" x 8" Bearing Plate	241	10%	265	LB	\$ 3.58	\$ 946	
17	S-200	S-310		Divider Beam Bearing Plate - (2) 3/8" x 5" x 8" Bearing Plate	2	0%	2	EA	\$ 110.00	\$ 220	
SECOND FLOOR FRAMING											
Beams & Girders											

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18	S-300			W12X16 (22 EA)	2464	10%	2,710	LB	\$ 3.58	\$ 9,692	
19	S-300			W12X19 (01 EA)	165	10%	182	LB	\$ 3.58	\$ 650	
20	S-300			W12X26 (22 EA)	8918	10%	9,810	LB	\$ 3.58	\$ 35,080	
21	S-300			W12X30 (03 EA)	825	10%	908	LB	\$ 3.58	\$ 3,246	
22	S-300			W12X35 (01 EA)	739	10%	813	LB	\$ 3.58	\$ 2,908	
23	S-300			W12X60 (01 EA)	1176	10%	1,294	LB	\$ 3.58	\$ 4,626	
24	S-300			W12X66 (01 EA)	955	10%	1,051	LB	\$ 3.58	\$ 3,757	
25	S-300			W16X31 (01 EA)	961	10%	1,057	LB	\$ 3.58	\$ 3,780	
26	S-300			W16X36 (02 EA)	1037	10%	1,141	LB	\$ 3.58	\$ 4,080	
27	S-300			W16X36 (06 EA)	2930	10%	3,223	LB	\$ 3.58	\$ 11,526	
28	S-300			W16X40 (03 EA)	4028	10%	4,431	LB	\$ 3.58	\$ 15,845	
29	S-300			W16X45 (01 EA)	1417	10%	1,558	LB	\$ 3.58	\$ 5,572	
30	S-300			W16X57 (03 EA)	2768	10%	3,045	LB	\$ 3.58	\$ 10,888	
31	S-300			W18X35 (11 EA)	5425	10%	5,968	LB	\$ 3.58	\$ 21,340	
32	S-300			W18X40 (05 EA)	2491	10%	2,740	LB	\$ 3.58	\$ 9,799	
33	S-300			W18X46 (01 EA)	834	10%	917	LB	\$ 3.58	\$ 3,279	
34	S-300			W18X50 (01 EA)	549	10%	603	LB	\$ 3.58	\$ 2,158	
35	S-300			W21X26 (01 EA)	186	10%	204	LB	\$ 3.58	\$ 730	
36	S-300			W21X44 (05 EA)	2923	10%	3,216	LB	\$ 3.58	\$ 11,499	
37	S-300			W21X48 (01 EA)	847	10%	932	LB	\$ 3.58	\$ 3,333	
38	S-300			W21X50 (01 EA)	1317	10%	1,448	LB	\$ 3.58	\$ 5,179	
39	S-300			W24X103 (04 EA)	9136	10%	10,050	LB	\$ 3.58	\$ 35,938	
40	S-300			W24X117 (03 EA)	9478	10%	10,426	LB	\$ 3.58	\$ 37,283	
41	S-300			W24X130 (01 EA)	1617	10%	1,779	LB	\$ 3.58	\$ 6,361	
42	S-300			W24X130 (01 EA)	1617	10%	1,779	LB	\$ 3.58	\$ 6,361	
43	S-300			W24X131 (01 EA)	3177	10%	3,494	LB	\$ 3.58	\$ 12,496	
44	S-300			W24X146 (02 EA)	6599	10%	7,259	LB	\$ 3.58	\$ 25,959	
45	S-300			W24X162 (02 EA)	8758	10%	9,633	LB	\$ 3.58	\$ 34,449	
46	S-300			W24X176 (03 EA)	12498	10%	13,748	LB	\$ 3.58	\$ 49,161	
47	S-300			W24X192 (02 EA)	10093	10%	11,103	LB	\$ 3.58	\$ 39,704	
48	S-300			W24X229 (01 EA)	5766	10%	6,343	LB	\$ 3.58	\$ 22,682	
49	S-300			W24X31 (01 EA)	802	10%	882	LB	\$ 3.58	\$ 3,153	
50	S-300			W24X55 (16 EA)	14586	10%	16,045	LB	\$ 3.58	\$ 57,375	
51	S-300			W24X62 (02 EA)	2463	10%	2,710	LB	\$ 3.58	\$ 9,689	
52	S-300			W24X68 (02 EA)	6881	10%	7,569	LB	\$ 3.58	\$ 27,067	

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53	S-300			W24X76 (05 EA)	7969	10%	8,765	LB	\$ 3.58	\$ 31,345	
54	S-300			W24X84 (03 EA)	5194	10%	5,713	LB	\$ 3.58	\$ 20,430	
55	S-300			W24X94 (04 EA)	8249	10%	9,073	LB	\$ 3.58	\$ 32,446	
56	S-300			C6X9 (02 EA)	23	10%	25	LB	\$ 3.58	\$ 91	
Steel Posts											
57	S-310	C1/S-310		HSS6X6X1/4 Post (03 EA) (9'-4"H)	532	10%	585	LB	\$ 3.58	\$ 2,093	
58	S-310	C2/S-310		HSS6X6X5/16 Post (09 EA) (9'-4"H)	1957	10%	2,153	LB	\$ 3.58	\$ 7,699	
Ledger											
59	S-300	5/S-320		L6x4x5/16 Ledger	62	10%	68	LF	\$ 12.75	\$ 870	
60	S-300	5,6 & 7/S-320		Drill & Anchor Solid Masonry 5/8" Dia Threaded Rod @ 16" O.C. With Hilti HIT-HY270.	47	0%	47	EA	\$ 12.00	\$ 558	
Divider Beam											
61	S-200	S-310		HSS6X4X1/2 Divider Beam (8'-6" LF)	241	10%	265	LB	\$ 3.58	\$ 946	
62	S-200	S-310		Divider Beam Bearing Plate - (2) 3/8" x 5" x 8" Bearing Plate	2	0%	2	EA	\$ 100.00	\$ 200	
Metal Deck											
63	S-200	SL-1/S-300		Vulcraft 3" 18 Ga. VLI Composite Metal Deck	12019	10%	13,221	SF	\$ 5.70	\$ 75,359	
64	S-200	1,4/S-320		Cont. 5/16" Bent Plate w/ - 3/4" Dia x 5" Headed Studs @ 12" O.C.	521	10%	573	LF	\$ 11.65	\$ 6,677	
65	S-200	1,1A & 2/S-320		Cont. 5/16" x 8-1/2" Plate Welded To W-Beams	217	10%	239	LF	\$ 14.20	\$ 3,390	
66	S-200	1 & 1A/S-320		1/2" Stiff. Plate Each Side @ 48" O.C.	55	0%	55	EA	\$ 20.00	\$ 1,100	
Canopy Framing											
67	S-200			C5X9	2286	10%	2,515	LB	\$ 4.98	\$ 12,513	
Beam Bearing Plate With Beam Pocket											
68	S-200	S-310		3/4" Bearing Plate (PL-1) W. - (2) 3/4" Dia x 6" LG. Welded Studs	6	0%	6	EA	\$ 90.00	\$ 540	
69	S-200	S-310		1" x 6" x 6" Bearing Plate (PL-2) W. - (6) 5/8" Dia x 6" LG. Welded Studs	4	0%	4	EA	\$ 90.00	\$ 360	

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				3RD TO SIXTH FLOOR FRAMING							
				Steel Posts							
70	S-310	C1/S-310		HSS6X6X1/4 Post (03 EA) (9'-4"H)	2128	10%	2,341	LB	\$ 3.58	\$ 8,371	
71	S-310	C2/S-310		HSS6X6X5/16 Post (09 EA) (9'-4"H)	7829	10%	8,612	LB	\$ 3.58	\$ 30,798	
				Divider Beam							
72	S-200	S-310		HSS6X4X1/2 Divider Beam (8'-6" LF) W/ - (2) 3/8" x 5" x 8" Bearing Plate	962	10%	1,058	LB	\$ 3.58	\$ 3,785	
73	S-200	S-310		Divider Beam Bearing Plate - (2) 3/8" x 5" x 8" Bearing Plate	8	0%	8	EA	\$ 110.00	\$ 880	
				Metal Deck							
74	S-400	Schd/S-400		8" x 0.0375" Comslab System Deck (CSL-1)	30276	10%	33,304	SF	\$ 7.40	\$ 246,447	
75	S-400	Schd/S-400		8" x 0.0375" Comslab System Deck (CSL-2)	6276	10%	6,904	SF	\$ 7.40	\$ 51,087	
76	S-400	Schd/S-400		1 1/2" VLI 18 GA. Metal Deck (SL-2)	3720	10%	4,092	SF	\$ 4.10	\$ 16,777	
				ROOF FRAMING							
				Roof Deck							
77	S-410	Schd/S-400		8" x 0.0375" Comslab System Deck (CSL-1)	4564	10%	5,020	SF	\$ 7.40	\$ 37,151	
78	S-410	Schd/S-400		8" x 0.0375" Comslab System Deck (CSL-2)	2402	10%	2,642	SF	\$ 7.40	\$ 19,552	
79	S-410	Schd/S-400		8" x 0.0375" Comslab System Deck (CSL-3)	1453	10%	1,598	SF	\$ 7.40	\$ 11,827	
80	S-410	Schd/S-400		8" x 0.0375" Comslab System Deck (CSL-4)	733	10%	806	SF	\$ 7.40	\$ 5,967	
81	S-410	Schd/S-400		1 1/2" VLI 18 GA. Metal Deck (SL-2) W/	954	10%	1,049	SF	\$ 4.10	\$ 4,303	
				Divider Beam							
82	S-200	S-310		HSS6X4X1/2 Divider Beam (8'-6" LF) W/ - (2) 3/8" x 5" x 8" Bearing Plate	241	10%	265	LB	\$ 3.58	\$ 946	
83	S-200	S-310		Divider Beam Bearing Plate - (2) 3/8" x 5" x 8" Bearing Plate	2	0%	2	EA	\$ 110.00	\$ 220	
				Steel Beams							
84	S-310			W10X49 (02 EA)	1274	10%	1,401	LB	\$ 3.58	\$ 5,011	
85	S-310			W8X31 (01 EA)	538	10%	592	LB	\$ 3.58	\$ 2,118	

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86	S-310			W8X35 (01 EA)	674	10%	742	LB	\$ 3.58	\$ 2,652	
87	S-310			W8X40 (01 EA)	1038	10%	1,142	LB	\$ 3.58	\$ 4,085	
				Steel Posts For Covered Area							
88	S-310			HSS6X6X1/4 Post (03 EA) (9'-6"H)	542	10%	596	LB	\$ 3.58	\$ 2,130	
89	S-310			HSS6X6X5/16 Post (10 EA) (9'-6"H)	2214	10%	2,435	LB	\$ 3.58	\$ 8,707	
				BULKHEAD ROOF FRAMING							
				Bulkhead Roof Deck							
90	S-410	Schd/S-400		1 1/2" 22 GA. Type B Metal Deck (RD-1)	2189	10%	2,408	SF	\$ 3.30	\$ 7,946	
				Light Guage Metal Studs							
91	S-420			800S200-54 Light Guage Metal Stud Roof Joists	1435	10%	1,578	LF	\$ 5.41	\$ 8,537	
92	S-420	22/S440		800T125-54 End Track	79	10%	87	LF	\$ 5.85	\$ 508	
93	S-420	22/S440		Nested Stud and Track (1) 600S162-54 + (1) 600T125-4	79	10%	87	LF	\$ 9.50	\$ 826	
94	S-420	23/S440		12 Ga. Bridal Hanger	120	10%	132	LF	\$ 1.45	\$ 191	
				Steel Beams							
95	S-310			W10X33 (06 EA)	1268	10%	1,394	LB	\$ 3.58	\$ 4,986	
96	S-310			W10X45 (06 EA)	392	10%	431	LB	\$ 3.58	\$ 1,542	
97	S-310			W18X50 (03 EA)	3273	10%	3,600	LB	\$ 3.58	\$ 12,873	
98	S-310			W8X13 (01 EA)	222	10%	244	LB	\$ 3.58	\$ 871	
99	S-310			W8X21 (06 EA)	1602	10%	1,762	LB	\$ 3.58	\$ 6,300	
100	S-310			W8X24 (05 EA)	1911	10%	2,102	LB	\$ 3.58	\$ 7,518	
				SHEAR WALLS							
				Steel Posts							
101	S-300	S-500		HSS6X6X3/16	8497	10%	9,347	LB	\$ 3.58	\$ 33,424	
				Bracings							
102	S-300	S-500		(2) 8SF12	19	10%	21	LF	\$ 10.00	\$ 209	
103	S-300	S-500		(2) 8SF14	571	10%	628	LF	\$ 12.00	\$ 7,537	
104	S-300	S-500		(2) 8SF16	837	10%	921	LF	\$ 14.00	\$ 12,890	

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				STAIRS							
				Steps							
105	A400-A410	1/A410		12" GA. Combined Tread Pan & Riser Tread Size: 1'-4"W x 0'-8" Deep	200	0%	200	EA	\$ 18.50	\$ 3,700	
				Landing Deck							
106	A400-A410	1/A410		10 Ga. Metal Pan Landing	880	10%	968	SF	\$ 8.00	\$ 7,744	
				MC Stringers							
107	A400-A410	3/A410		MC 12X10.6 Stringers W/ - 1 1/4" X 1 1/4" X 1/8" Angle Weld To Stringer 484 LF	5566	10%	6,123	LB	\$ 3.58	\$ 21,894	
108	A400-A410	2/A410		1 1/4" X 1 1/4" X 1/8" Steel Angle X 6" Long Floor Clip Bolted To Floor	84	10%	92	LB	\$ 3.58	\$ 330	
				Landing Support							
109	A400-A410	1/A410		W8X Landing Support Beam 208 LF	2496	10%	2,746	LB	\$ 3.58	\$ 9,818	
				MC Header							
110	A400-A410	1/A410		MC 8X8.4 Header Bolted To Concrete Block Wall W/ - L 2"X2 1/4" @ 2" O.C. 198 LF	1920	10%	2,112	LB	\$ 3.58	\$ 7,553	
				Balusters							
111	A400-A410	1/A410		1" Square Post	56	0%	56	EA	\$ 78.00	\$ 4,368	
				Guradrail							
112	A400-A410	1/A410		42" High 1 1/2" Dia Steel Pipe W/ - 1/2" Sq. Bars Pickets - 1" x 1/2" x 1/2" Bottom Rail Channel	242	10%	266	LF	\$ 84.00	\$ 22,361	
				Handrail							
113	A400-A410	1/A410		34" - 36" High 1 1/2" Dia Steel Pipe Handrail	242	10%	266	LF	\$ 32.00	\$ 8,518	

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				CMU TOP METAL TRACK							
				First Floor Non Load Bearing CMU							
114	A-110	2/S-320		CMU Partition Top Anchor Attached To Steel W/ - (2) 0.157" Dia PAF's @ 32" O.C.	429	10%	472	LF	\$ 1.98	\$ 934	
				2nd Floor Parapet							
115	A-110	2/S-320		Top Metal Track W/ - 12" H Galv. Anchor Bolts	222	10%	244	LF	\$ 1.98	\$ 484	
				BULKHEAD							
116	S-420	S310		Hohman & Barnard PTA-422 Partition Top	144	10%	158	LF	\$ 1.98	\$ 314	
				ALUMINIUM SOLAR CANOPY @ SECOND FLOOR							
117	A200-A220			Anodized Aluminium Solar Canopy @ 2nd Floor & Elevator Bulkhead	528	10%	581	SF	\$ 14.00	\$ 8,131	
				SUNSHADE @ BULKHEAD							
118	A-350	4/A-350		Sunshade Panel For Canopy As Per Manufacturer's Details - Sunshade Wrapped C Studs As Per Manufacturer's Details	286	10%	315	SF	\$ -	\$ -	
				ALUMINIUM COPING							
119	A200-A220	A300-A350		4" Exposure Aluminium Coping To Match The Adjacent Exterior Finish W/ - Coping Cleat - Aluminium Flashing - Sealatn Seal On Drip Cap To Cover Fasteners	960	10%	1,056	LF	\$ 19.60	\$ 20,698	
				BOX HEADERS & JAMBS (2nd- Roof)							
120	S-400	Schd/S-400		(2)800S162-54 + (2) 600T125-54 W/ - (2) Jamb Stud Posts	245	0%	245	EA	\$ 115.00	\$ 28,175	
				SHEET METAL BLOCKING							
121	A600-A610			Sheet Metal Blocking @ Millwork	667	10%	734	LF	\$ 3.95	\$ 2,899	
122	A600-A610			Sheet Metal Blocking @ Bath Accessories	4875	10%	5,363	LF	\$ 3.95	\$ 21,182	

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				STEEL LETTERING							
123	A630	5/A630		Individual Stainless Steel Letters With Concealed Dowels and Fasteners Letters: "74 POLLOCK"	1	0%	1	LS	\$ 1,000	\$ 1,000	
124	A200			New 12" H x 2" Deep Silver Anodized Letter Screwed To Canopy Letters: "74 POLLOCK"	1	0%	1	LS	\$ 1,000	\$ 1,000	
				Metals Sub Total							\$ 1,576,324
SUB TOTAL										\$ 1,576,324	\$ 1,576,324
OVERHEAD AND PROFIT										20%	\$ 315,265
METAL FRAMING											\$ 1,891,589