



APPENDIX F

Concrete Framing Cost Estimate

Filigree Precast Plank

	<i>Size (Sq. Ft./ Floor)</i>	<i>Floors</i>	<i>Cost (\$/sq.ft.)</i>	<i>Total Cost (\$)</i>
Precast Plank	17,000	12	4.67	\$952,680

C.I.P. Slab on Plank

	<i>Volume (C.Y./ Floor)</i>	<i>Floors</i>	<i>Cost (\$/C.Y.)</i>	<i>Total Cost (\$)</i>
Slab	131	12	33.5	\$52,662

C.I.P. Columns

	<i>Volume (C.Y./ Column)</i>	<i>Columns</i>	<i>Cost (\$/C.Y.)</i>	<i>Total Cost (\$)</i>
22"x28"	21.9	22	1141	\$549,734
22"x32"	25	22	1141	\$627,550
				\$1,177,284

Total Building Cost

Precast Plank	\$952,680
C.I.P. Slab on Plank	\$52,662
C.I.P. Columns	\$1,117,282
Total Cost =	\$2,100,000



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Steel Framing Cost Estimate

Gravity Beam Cost

	<i>Total Length (ft)</i>	<i>Cost (\$/ft)</i>	<i>Total Cost (\$)</i>
W8X10	966	16.46	\$15,900
W8X35	8370	43.05	\$360,329
W8X48	5585	56.55	\$315,832
W10X12	311	18.56	\$5,772
W10X19	37	21.71	\$803
W12X14	162	18.75	\$3,038
W12X19	681	27.10	\$18,455
W14X22	898	30.64	\$27,515
W14X53	270	60.00	\$16,200
W16X26	8164	30.61	\$249,900
W16X31	251	36.51	\$9,164
W16X36	318	46.50	\$14,787
W16X57	240	57.00	\$13,680
W18X35	94	41.36	\$3,888
W18X40	54	46.86	\$2,530
W18X50	259	57.62	\$14,924
W21X44	2232	50.38	\$112,448
			\$1,185,164

Gravity Column Cost

	<i>Total Length (ft)</i>	<i>Cost (\$/ft)</i>	<i>Total Cost (\$)</i>
W14X74	2341	81.16	\$189,996
W14X120	1195	128.78	\$153,892
W14X176	352	187.95	\$66,158
			\$410,046

Frame Beam and Brace Cost

	<i>Total Length (ft)</i>	<i>Cost (\$/ft)</i>	<i>Total Cost (\$)</i>
W8X40	3323	39.05	\$129,763
W12X53	1482	80.63	\$119,494
			\$249,257



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Frame Column Cost

	Total Length (ft)	Cost (\$/ft)	Total Cost (\$)
W14X43	175	81.16	\$14,203
W14X48	70	81.16	\$5,681
W14X53	68	81.16	\$5,519
W14X61	311	81.16	\$25,241
W14X68	68	81.16	\$5,519
W14X74	66	81.16	\$5,357
W14X82	132	81.16	\$10,713
W14X90	328	81.16	\$26,620
W14X109	90	128.76	\$11,588
W14X120	66	128.76	\$8,498
W14X132	198	128.76	\$25,494
W14X159	185	128.76	\$23,821
W14X176	107	187.95	\$20,111
W14X233	208	187.95	\$39,094
W14X283	152	187.95	\$28,568
			\$256,027

Shear Stud Cost

	Number	Cost (per stud)	Total Cost (\$)
Studs	24095	1.37	\$33,010

Decking and Slab Cost

	Size (Sq. Ft.)	Cost (\$/sq.ft.)	Total Cost (\$)
Steel Decking	204000	1.93	\$393,720
Slab	204000	1.67	\$340,680
			\$734,400

Total Building Cost

Gravity Beams	\$1,185,164
Gravity Columns	\$410,046
Frame Beams and Braces	\$249,257
Frame Columns	\$256,027
Shear Studs	\$33,010
Decking and Slab	\$734,400

Total Cost = \$2,900,000