X. APPENDIX C: CONSTRUCTION MANAGEMENT BREADTH CALCULATIONS



Duncan Center, Dover, Delaware 132/152

X. APPENDIX C: CONSTRUCTION MANAGEMENT BREADTH CALCULATIONS

CONSTRUCTION MANAGEMENT BREADTH ROUGH COST ESTIMATES - RS MEANS SQUARE FOOT COSTS OFFICE 6 STORY DATA 2007 TOTAL FLOOR AREA = 5 (11138FT) 2929FT 58619 FT2 TOTAL PLOOR PERIMETER = 2(116)+2(134)=500 FT STORY HEIGHT = 14' FACE OBRICK WITH CONCRETE BLOCK BACK-UP - STEEL FRAME (\$141. 88+ 1.03(\$8.74) + 2.00(\$2.72)+\$31.95) = (\$188.27) (586 19 FT)=\$1,029,199 (0.10) \$1,104,000 \$10, 4 0000+4 (94600)=\$ 10,584, 200 REINFORCED CONCRETE FRAME = \$134.39+1.03(38.74)+2.00(42.72) A 1-A 1 BASE ADDITIONAL PERMETER ADDITIONAL HEIGHT + 431.95 = (\$18078)(58619.872) 1 SUPERSTRUCTURE ONLY CASEMENT = \$11,007,176 (0.10) \$1101,000-PINAL COST ESTIMATES - RS MEANS BUILDING CONSTRUCTION COST DATA 2001 SITE WORK & LANDSCAPING COST DATA 2007 HSSUMPTIONS FOR CONCRETE, PLACING & FORMS. CONTINUOUS FOOTINGS, PILE CAPS & PIERS PUMPED - CHSE SLAB ON GRADE - DIRECT CHUTE -EDES FORM ELEVATED FLAT SLAB WITH DROPPANELS 12 FLOOR - 5th FLOOR ECRANE & BUCKET - YUSE + ELEVATED FLAT SLAB WITH DROP PANELS-6" FLOOR TIUSE - CRANE & BUCKET COLUMNS - CRANED BUCKET THUSE WALL - CRANE & BUCKET - EXTERIOR WALL THUSE BEAMS -CRANE& BUCKET - JUSE ASSUMPTIONS FOR STEEL - ADJUSTED POR TONNAGE FOR COLUMNS & BEAMS - 0.845 TONS = 1 FT3

Rachel Gingerich, Structural Option Final Report Duncan Center, Dover, Delaware 133/152

FINAL SCHEDULE ESTIMATES - CONSTRUCTION SCHEDULING WITH PRIMANERA PROJECT PLANNER ASSUMPTIONS START DATE : JUNE 2, 2003 WORK DATES MONDAY - FRIDAY - FAGRICATION & SHIPPING DELAYS FROM START OF PROJECT: - BASEPLATES: 20 DAYS - STEEL MEMBERS: 50 DAYS - FORMWORK: 15 DAYS - 'REBAR : 25 DAYS LAGS. - +2 FOR CONCRETE CURING BETWEEN PLACING & STRIPING 13 FORMING STRIPING Rachel Gingerich, Structural Option Duncan Center, Dover, Delaware

Final Report

134/152

i. Cost Estimate Comparison

Existing Steel Structural System Cost Estimate

Item No.	Item	Item Breakdown	Detailed Item Breakdown
1	Concrete Piles	Concrete	
2		Reinforcement	
3	Concrete Pile Caps	Material	
4		Forms	Square, Rectangular
5			Triangular
6		Placing	x<5
7			5 <x<10< td=""></x<10<>
8		Reinforcement	#4-#7
9			#8-#18
10	Concrete Continuous Footings	Material	
11		Forms	
12		Placing	
13	Concrete Slab on Grade	Material	
14		Forms	
15		Placing	
16		Welded Wire Fabric	
17	Concrete Piers	Material	
18		Forms	
19		Placing	
20	Steel Baseplates	Baseplates	
21		Anchor Bolts	
22	Steel Columns	Columns	W12x50
23			W12x87
24			W12x120
25			HSS 4x4x1/4
26		Fireproofing	
27	Steel Beams	Beams	W8x21
28			W8x24
29			W10x12
30			W12x14



Item No.	Item	Item Breakdown	Detailed Item Breakdown
31			W12x26
32			W14x26
33			W16x26
34			W16x31
35			W16x40
36			W18x35
37			W18x40
38			W18x76
39			W21x44
40			W24x55
41			W24x68
42			W24x76
43			W27x84
44		Open Web Steel Joists	18K5
45		Cold Formed Roof Trusses	9:12 to 12:12 Pitch
46		Studs	
47		Fireproofing	
48		Flange Moment Connections	1/4" Weld
49			3/4" Weld
50		Web Moment Connections	1/4" Weld
51			3/4" Weld
52	Composite Steel Deck	Deck	
53		Material	
54		Placing	
55		Welded Wire Fabric	
56		Fireproofing	
57	Roof Steel Deck	Deck	
58		Fireproofing	
59	Subtotal		
	20% Miscellaneous Steel		
60	Increase		
61	Total		



Item No.	Unit	Quantity	Material Unit Cost	Material Cost	Labor Unit Cost	Labor Cost
1	VLF	2869.90	\$17.75	\$50,940.73	\$6.35	\$18,223.87
2	LB	9881.67	\$0.90	\$8,893.50	\$0.00	\$0.00
3	CY	182.94	\$114.00	\$20,855.10	\$0.00	\$0.00
4	SFCA	2595.60	\$2.46	\$6,385.18	\$3.83	\$0.00
5	SFCA	927.00	\$2.90	\$2,688.30	\$4.94	\$9,941.15
6	CY	120.11	\$0.00	\$0.00	\$18.05	\$2,167.98
7	CY	62.83	\$0.00	\$0.00	\$9.95	\$625.16
8	TON	0.10	\$850.00	\$83.96	\$630.00	\$62.23
9	TON	5.51	\$805.00	\$4,438.93	\$365.00	\$2,012.68
10	CY	34.73	\$114.00	\$3,958.79	\$0.00	\$0.00
11	SFCA	15849.13	\$2.64	\$41,841.7 0	\$2.96	\$46,913.42
12	CY	34.73	\$0.00	\$0.00	\$13.25	\$460.12
13	CY	139.98	\$114.00	\$15,957.19	\$0.00	\$0.00
14	SFCA	164.73	\$0.29	\$47.77	\$1.85	\$304.76
15	CY	139.98	\$0.00	\$0.00	\$13.20	\$1,847.67
16	CSF	113.38	\$19.80	\$2,244.92	\$23.00	\$2,607.74
17	CY	35.58	\$108.00	\$3,842.56	\$0.00	\$0.00
18	SFCA	1921.28	\$2.57	\$4,937.69	\$5.85	\$11,239.49
19	CY	35.58	\$0.00	\$0.00	\$21.50	\$764.95
20	SF	76.50	\$32.00	\$2,448.00	\$0.00	\$0.00
21	EA	136.00	\$4.04	\$549.44	\$23.50	\$3,196.00
22	LF	864.69	\$62.15	\$53,740.48	\$2.19	\$1,893.67
23	LF	923.35	\$107.80	\$99,537.13	\$2.30	\$2,123.71
24	LF	318.68	\$148.50	\$47,323.98	\$2.35	\$748.90
25	EA	25.00	\$185.90	\$4,647.50	\$39.00	\$975.00
26	SF	6320.16	\$0.50	\$3,160.08	\$0.66	\$4,171.31
27	LF	153.36	\$23.50	\$3,603.96	\$3.77	\$578.17
28	LF	76.68	\$27.00	\$2,070.36	\$4.11	\$315.15
29	LF	577.12	\$13.55	\$7,819.98	\$3.77	\$2,175.74
30	LF	1380.96	\$15.80	\$21,819.17	\$2.57	\$3,549.07



Item No.	Unit	Quantity	Material Unit Cost	Material Cost	Labor Unit Cost	Labor Cost
31	LF	216.06	\$29.50	\$6,373.77	\$2.57	\$555.27
32	LF	47.68	\$29.50	\$1,406.56	\$2.28	\$108.71
33	LF	2604.35	\$29.50	\$76,828.33	\$2.26	\$5,885.83
34	LF	3135.73	\$35.00	\$109,750.55	\$2.51	\$7,870.68
35	LF	55.34	\$45.00	\$2,490.30	\$2.82	\$156.06
36	LF	1285.66	\$39.50	\$50,783.57	\$3.40	\$4,371.24
37	LF	1321.84	\$45.00	\$59,482.80	\$3.40	\$4,494.26
38	LF	100.02	\$85.50	\$8,551.71	\$3.63	\$363.07
39	LF	195.68	\$49.50	\$9,686.16	\$3.07	\$600.74
40	LF	2131.71	\$62.00	\$132,166.02	\$2.94	\$6,267.23
41	LF	479.92	\$76.50	\$36,713.88	\$2.94	\$1,410.96
42	LF	192.86	\$85.50	\$16,489.53	\$2.94	\$567.01
43	LF	359.06	\$94.50	\$33,931.17	\$2.75	\$987.42
44	LF	876.12	\$5.50	\$4,818.66	\$1.63	\$1,428.08
45	EA	46.00	\$181.00	\$8,326.00	\$98.00	\$4,508.00
46	EA	6737.00	\$0.49	\$3,301.13	\$0.72	\$4,850.64
47	SF	50099.11	\$0.45	\$22,544.60	\$0.49	\$24,548.56
48	LF	856.00	\$0.60	\$513.60	\$6.95	\$5,949.20
49	LF	214.00	\$2.58	\$552.12	\$29.00	\$6,206.00
50	LF	792.00	\$0.60	\$475.20	\$6.95	\$5,504.40
51	LF	396.00	\$2.58	\$1,021.68	\$29.00	\$11,484.00
52	SF	58735.00	\$1.63	\$95,738.05	\$0.37	\$21,731.95
53	CY	906.40	\$108.00	\$97,891.67	\$0.00	\$0.00
54	CY	906.40	\$0.00	\$0.00	\$24.00	\$21,753.70
55	CSF	587.35	\$15.40	\$9,045.19	\$21.50	\$12,628.03
56	SF	67796.00	\$0.45	\$30,508.20	\$0.49	\$33,220.04
57	SF	9061.00	\$1.82	\$16,491.02	\$0.35	\$3,171.35
58	SF	9061.00	\$2.82	\$25,552.02	\$1.35	\$12,232.35
59				\$1,275,269.87		\$319,752.71
60				\$255,053.97		\$63,950.54
61				\$1,530,323.84		\$383,703.25



Item No.	Equipment Unit Cost	Equipment Cost	Total Unit Cost	Total Cost
1	\$14.60	\$41,900.54	\$38.70	\$111,065.13
2	\$0.00	\$0.00	\$0.90	\$8,893.50
3	\$0.00	\$0.00	\$114.00	\$20,855.10
4	\$0.00	\$0.00	\$6.29	\$16,326.32
5	\$0.00	\$0.00	\$7.84	\$7,267.68
6	\$6.85	\$822.75	\$24.90	\$2,990.73
7	\$3.76	\$236.24	\$13.71	\$861.40
8	\$0.00	\$0.00	\$1,480.00	\$146.19
9	\$0.00	\$0.00	\$1,170.00	\$6,451.61
10	\$0.00	\$0.00	\$114.00	\$3,958.79
11	\$0.00	\$0.00	\$5.60	\$88,755.13
12	\$5.00	\$173.63	\$18.25	\$633.75
13	\$0.00	\$0.00	\$114.00	\$15,957.19
14	\$0.00	\$0.00	\$2.14	\$352.53
15	\$0.39	\$54.59	\$13.59	\$1,902.26
16	\$0.00	\$0.00	\$42.80	\$4,852.66
17	\$0.00	\$0.00	\$108.00	\$3,842.56
18	\$0.00	\$0.00	\$8.42	\$16,177.18
19	\$8.15	\$289.97	\$29.65	\$1,054.93
20	\$0.00	\$0.00	\$32.00	\$2,448.00
21	\$0.00	\$0.00	\$27.54	\$3,745.44
22	\$1.50	\$1,297.04	\$65.84	\$56,931.19
23	\$1.57	\$1,449.66	\$111.67	\$103,110.49
24	\$1.61	\$513.07	\$152.46	\$48,585.95
25	\$26.50	\$662.50	\$251.40	\$6,285.00
26	\$0.11	\$695.22	\$1.27	\$8,026.60
27	\$2.58	\$395.67	\$29.85	\$4,5 77.80
28	\$2.81	\$215.47	\$33.92	\$2,600.99
29	\$2.58	\$1,488.97	\$19.90	\$11,484.69
30	\$1.76	\$2,430.49	\$20.13	\$27,798.72



Item No.	Equipment Unit Cost	Equipment Cost	Total Unit Cost	Total Cost
31	\$1.76	\$380.27	\$33.83	\$7,309.31
32	\$1.56	\$74.38	\$33.34	\$1,589.65
33	\$1.55	\$4,036.74	\$33.31	\$86,750.90
34	\$1.72	\$5,393.46	\$39.23	\$123,014.69
35	\$1.93	\$106.81	\$49.75	\$2,753.17
36	\$1.73	\$2,224.19	\$44.63	\$57,379.01
37	\$1.73	\$2,286.78	\$50.13	\$66,263.84
38	\$1.85	\$185.04	\$90.98	\$9,099.82
39	\$1.56	\$305.26	\$54.13	\$10,592.16
40	\$1.50	\$3,197.57	\$66.44	\$141,630.81
41	\$1.50	\$719.88	\$80.94	\$38,844.72
42	\$1.50	\$289.29	\$89.94	\$17,345.83
43	\$1.40	\$502.68	\$98.65	\$35,421.27
44	\$0.89	\$779.75	\$8.02	\$7,026.48
45	\$0.00	\$0.00	\$279.00	\$12,834.00
46	\$0.32	\$2,155.84	\$1.53	\$10,307.61
47	\$0.08	\$4,007.93	\$1.02	\$51,101.09
48	\$2.30	\$1,968.80	\$9.85	\$8,431.60
49	\$9.60	\$2,054.40	\$41.18	\$8,812.52
50	\$2.30	\$1,821.60	\$9.85	\$7,801.20
51	\$9.60	\$3,801.60	\$41.18	\$16,307.28
52	\$0.03	\$1,762.05	\$2.03	\$119,232.05
53	\$0.00	\$0.00	\$108.00	\$97,891.67
54	\$11.80	\$10,695.57	\$35.80	\$32,449.27
55	\$0.00	\$0.00	\$36.90	\$21,673.22
56	\$0.08	\$5,423.68	\$1.02	\$69,151.92
57	\$0.03	\$271.83	\$2.20	\$19,934.20
58	\$1.03	\$9,332.83	\$5.20	\$47,117.20
59		\$116,404.03		\$1,716,005.98
60		\$23,280.81		\$343,201.20
61		\$139,684.83		\$2,059,207.18



Item No.	Item	Item Breakdown	Detailed Item Breakdown
1	Concrete Piles	Concrete	
2		Reinforcement	
3	Concrete Pile Caps	Material	
4		Forms	Square, Rectangular
5			Triangular
6		Placing	x<5
7			5 <x<10< td=""></x<10<>
8			x>10
9		Reinforcement	
10	Concrete Continuous Footings	Material	
11		Forms	
12		Placing	
13	Concrete Slab on Grade	Material	
14		Forms	
15		Placing	
16		Welded Wire Fabric	
17	Concrete Two-Way Flat Slabs	Material	
18		Forms	
19		Placing	
20		Reinforcement	
21	Concrete One-Way Slabs	Material	
22		Forms	
23		Placing	
24		Reinforcement	
25	Concrete Columns	Material	
26		Forms	
27		Placing	
28		Reinforcement	
29	Concrete Shear Walls	Material	
30		Forms	

Proposed Concrete Structural System Cost Estimate



Item No.	Item	Item Breakdown	Detailed Item Breakdown
31		Placing	
32		Reinforcement	
33	Concrete Beams	Material	
34		Forms	Exterior
35			Interior
36		Placing	
37		Reinforcement	
38	Steel Columns	HSS 4x4x1/4	
39	Steel Beams	W12x14	
40		W14x26	
41		W16x26	
42		W16x31	
43		W18x76	
44		W24x55	
45		Open Web Steel Joists	18K5
46		Cold Formed Roof Trusses	9:12 to 12:12 Pitch
47		Fireproofing	
48	Roof Steel Deck	Deck	
49		Fireproofing	
50	Total		



Item No.	Unit	Quantity	Material Unit Cost	Material Cost	Labor Unit Cost	Labor Cost
1	VLF	3600.42	\$17.75	\$63,907.46	\$6.35	\$22,862.67
2	LB	12397.00	\$0.90	\$11,157.30	\$0.00	\$0.00
3	CY	242.76	\$114.00	\$27,674.92	\$0.00	\$0.00
4	SFCA	2700.66	\$2.46	\$6,643.62	\$3.83	\$0.00
5	SFCA	973.35	\$2.90	\$2,822.72	\$4.94	\$10,343.53
6	CY	22.43	\$0.00	\$0.00	\$18.05	\$404.88
7	CY	174.55	\$0.00	\$0.00	\$9.95	\$1,736.81
8	CY	45.78	\$0.00	\$0.00	\$8.30	\$379.96
9	TON	10.35	\$805.00	\$8,329.50	\$365.00	\$3,776.73
10	CY	34.73	\$114.00	\$3,958.79	\$0.00	\$0.00
11	SFCA	15849.13	\$2.64	\$41,841.7 0	\$2.96	\$46,913.42
12	CY	34.73	\$0.00	\$0.00	\$13.25	\$460.12
13	CY	139.98	\$114.00	\$15,957.19	\$0.00	\$0.00
14	SFCA	164.73	\$0.29	\$47.77	\$1.85	\$304.76
15	CY	139.98	\$0.00	\$0.00	\$13.20	\$1,847.67
16	CSF	113.38	\$19.80	\$2,244.92	\$23.00	\$2,607.74
17	CY	2131.42	\$114.00	\$242,981.85	\$0.00	\$0.00
18	SF	55806.00	\$1.60	\$89,289.6 0	\$3.15	\$175,788.90
19	CY	2131.42	\$0.00	\$0.00	\$17.35	\$36,980.13
20	TON	106.07	\$950.00	\$100,770.25	\$455.00	\$48,263.65
21	CY	108.48	\$114.00	\$12,366.89	\$0.00	\$0.00
22	SF	2929.00	\$4.93	\$14,439.97	\$3.82	\$11,188.78
23	CY	108.48	\$0.00	\$0.00	\$17.35	\$1,882.15
24	TON	2.14	\$950.00	\$2,028.69	\$455.00	\$971.63
25	CY	349.43	\$114.00	\$39,835.26	\$0.00	\$0.00
26	SFCA	20018.67	\$0.84	\$16,815.68	\$4.67	\$93,487.17
27	CY	349.43	\$0.00	\$0.00	\$32.50	\$11,356.54
28	TON	49.12	\$895.00	\$43,962.84	\$575.00	\$28,244.28
29	CY	296.15	\$114.00	\$33,761.21	\$0.00	\$0.00
30	SFCA	11994.12	\$0.66	\$7,916.12	\$4.34	\$52,054.46



Item No.	Unit	Quantity	Material Unit Cost	Material Cost	Labor Unit Cost	Labor Cost
31	CY	296.15	\$0.00	\$0.00	\$28.00	\$8,292.23
32	TON	36.84	\$850.00	\$31,316.20	\$440.00	\$16,210.74
33	CY	12.35	\$114.00	\$1,407.69	\$0.00	\$0.00
34	SFCA	266.72	\$2.76	\$736.15	\$6.45	\$1,720.34
35	SFCA	400.08	\$2.82	\$1,128.23	\$5.35	\$2,140.43
36	CY	12.35	\$0.00	\$0.00	\$50.00	\$617.41
37	TON	0.37	\$895.00	\$334.22	\$539.00	\$201.28
38	EA	18.00	\$338.00	\$6,084.00	\$78.00	\$1,404.00
39	LF	304.72	\$23.70	\$7,221.86	\$3.21	\$978.91
40	LF	76.68	\$44.25	\$3,393.09	\$2.85	\$218.54
41	LF	374.72	\$44.25	\$16,581.36	\$2.83	\$1,058.58
42	LF	197.36	\$52.50	\$10,361.40	\$3.14	\$619.22
43	LF	100.02	\$128.25	\$12,827.57	\$4.54	\$453.84
44	LF	161.36	\$93.00	\$15,006.48	\$3.68	\$593.00
45	LF	876.12	\$5.50	\$4,818.66	\$1.63	\$1,428.08
46	EA	46.00	\$181.00	\$8,326.00	\$98.00	\$4,508.00
47	SF	4252.01	\$0.50	\$2,126.01	\$0.66	\$2,806.33
48	SF	9061.00	\$1.82	\$16,491.02	\$0.35	\$3,171.35
49	SF	9061.00	\$2.82	\$25,552.02	\$1.35	\$12,232.35
50				\$952,466.19		\$610,510.62



Item No.	Equipment Unit Cost	Equipment Cost	Total Unit Cost	Total Cost
1	\$14.60	\$52,566.13	\$38.70	\$139,336.25
2	\$0.00	\$0.00	\$0.90	\$11,157.30
3	\$0.00	\$0.00	\$114.00	\$27,674.92
4	\$0.00	\$0.00	\$6.29	\$16,987.15
5	\$0.00	\$0.00	\$7.84	\$7,631.06
6	\$6.85	\$153.65	\$24.90	\$558.53
7	\$3.76	\$656.32	\$13.71	\$2,393.13
8	\$3.13	\$143.28	\$11.43	\$523.24
9	\$0.00	\$0.00	\$1,170.00	\$12,106.23
10	\$0.00	\$0.00	\$114.00	\$3,958.79
11	\$0.00	\$0.00	\$5.60	\$88,755.13
12	\$5.00	\$173.63	\$18.25	\$633.75
13	\$0.00	\$0.00	\$114.00	\$15,957.19
14	\$0.00	\$0.00	\$2.14	\$352.53
15	\$0.39	\$54.59	\$13.59	\$1,902.26
16	\$0.00	\$0.00	\$42.80	\$4,852.66
17	\$0.00	\$0.00	\$114.00	\$242,981.85
18	\$0.00	\$0.00	\$4.75	\$265,078.50
19	\$8.60	\$18,330.21	\$25.95	\$55,310.34
20	\$0.00	\$0.00	\$1,405.00	\$149,033.90
21	\$0.00	\$0.00	\$114.00	\$12,366.89
22	\$0.00	\$0.00	\$8.75	\$25,628.75
23	\$8.60	\$932.94	\$25.95	\$2,815.09
24	\$0.00	\$0.00	\$1,405.00	\$3,000.32
25	\$0.00	\$0.00	\$114.00	\$39,835.26
26	\$0.00	\$0.00	\$5.51	\$110,302.85
27	\$16.00	\$5,590.91	\$48.50	\$16,947.46
28	\$0.00	\$0.00	\$1,470.00	\$72,207.13
29	\$0.00	\$0.00	\$114.00	\$33,761.21
30	\$0.00	\$0.00	\$5.00	\$59,970.58



Item No.	Equipment Unit Cost	Equipment Cost	Total Unit Cost	Total Cost
31	\$14.00	\$4,146.11	\$42.00	\$12,438.34
32	\$0.00	\$0.00	\$1,290.00	\$47,526.94
33	\$0.00	\$0.00	\$114.00	\$1,407.69
34	\$0.00	\$0.00	\$9.21	\$2,456.49
35	\$0.00	\$0.00	\$8.17	\$3,268.65
36	\$25.00	\$308.70	\$75.00	\$926.11
37	\$0.00	\$0.00	\$1,434.00	\$535.50
38	\$26.50	\$477.00	\$442.50	\$7,965.00
39	\$1.76	\$536.31	\$28.67	\$8,737.08
40	\$1.56	\$119.62	\$48.66	\$3,731.25
41	\$1.55	\$580.82	\$48.63	\$18,220.76
42	\$1.72	\$339.46	\$57.36	\$11,320.08
43	\$1.85	\$185.04	\$134.64	\$13,466.44
44	\$1.50	\$242.04	\$98.18	\$15,841.52
45	\$0.89	\$779.75	\$8.02	\$7,026.48
46	\$0.00	\$0.00	\$279.00	\$12,834.00
47	\$0.11	\$467.72	\$1.27	\$5,400.05
48	\$0.03	\$271.83	\$2.20	\$19,934.20
49	\$1.03	\$9,332.83	\$5.20	\$47,117.20
50		\$96,388.90		\$1,664,174.06



ii. Schedule Estimate Comparison

Refer to the following Microsoft Project schedules, Existing Steel & Proposed Concrete Structural System schedule estimates, respectively.

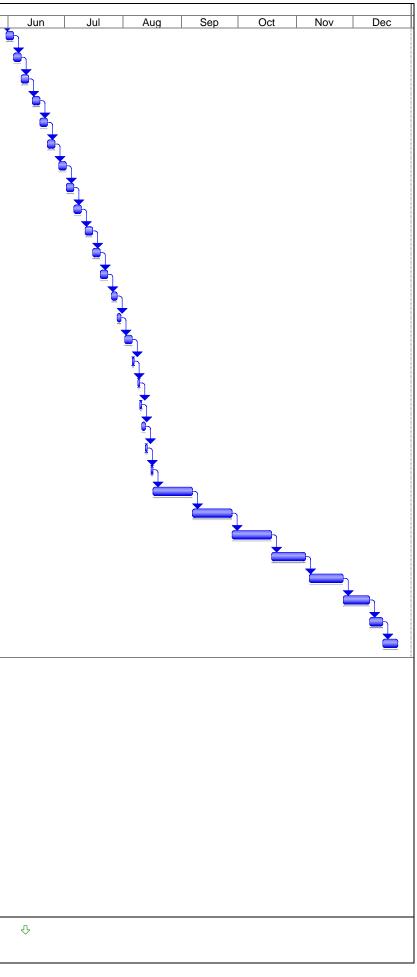


Rachel Gingerich, Structural Option Final Report Duncan Center, Dover, Delaware 147/152

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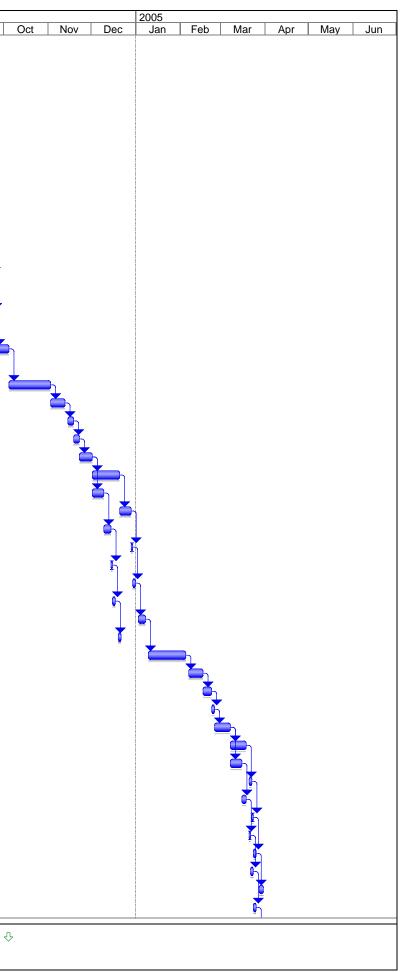
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41	-	Composite Deck Erection-1st F	4 days	Mon 5/31/04	Thu 6/3/04	Jun	501	Aug	J Sep			Dec	Jan	reb	Iviai		Iviay	<u>b</u>
42		Composite Deck Reinforcing-1s	2 days	Fri 6/4/04	Mon 6/7/04													
43		Composite Deck Placing-1st Flo	4 days	Tue 6/8/04	Fri 6/11/04													<u> </u>
44		Composite Deck Erection-2nd F	4 days	Mon 6/14/04	Thu 6/17/04													<u></u>
45		Composite Deck Reinforcing-2r	2 days	Fri 6/18/04	Mon 6/21/04													
46		Composite Deck Placing-2nd Fl	4 days	Tue 6/22/04	Fri 6/25/04													
47		Composite Deck Erection-3rd F	4 days	Mon 6/28/04	Thu 7/1/04													
48		Composite Deck Reinforcing-3r	2 days	Fri 7/2/04	Mon 7/5/04													
49		Composite Deck Placing-3rd Fl	4 days	Tue 7/6/04	Fri 7/9/04													
50		Composite Deck Erection-4th F	4 days	Mon 7/12/04	Thu 7/15/04													
51		Composite Deck Reinforcing-4t	2 days	Fri 7/16/04	Mon 7/19/04													
52		Composite Deck Placing-4th Flo	4 days	Tue 7/20/04	Fri 7/23/04													
53		Composite Deck Erection-5th F	3 days	Mon 7/26/04	Wed 7/28/04													
54		Composite Deck Reinforcing-5t	2 days	Thu 7/29/04	Fri 7/30/04													
55		Composite Deck Placing-5th Flo	4 days	Mon 8/2/04	Thu 8/5/04													
56		Composite Deck Erection-6th F	1 day	Fri 8/6/04	Fri 8/6/04													
57		Composite Deck Reinforcing-6t	1 day	Mon 8/9/04	Mon 8/9/04													
58		Composite Deck Placing-6th Flo	1 day	Tue 8/10/04	Tue 8/10/04													
59		Roof Deck Erection-Low Roof	2 days	Wed 8/11/04	Thu 8/12/04													
60		Roof Deck Erection-High Roof	1 day	Fri 8/13/04	Fri 8/13/04													
61		Fireproofing-Basement	1 day	Mon 8/16/04	Mon 8/16/04													
62		Fireproofing-1st Floor	15 days	Tue 8/17/04	Mon 9/6/04													
63		Fireproofing-2nd Floor	15 days	Tue 9/7/04	Mon 9/27/04													
64		Fireproofing-3rd Floor	15 days	Tue 9/28/04	Mon 10/18/04													
65		Fireproofing-4th Floor	14 days	Tue 10/19/04	Fri 11/5/04													
66		Fireproofing-5th Floor	14 days	Mon 11/8/04	Thu 11/25/04													
67		Fireproofing-Low Roof	10 days	Fri 11/26/04	Thu 12/9/04													
68		Fireproofing-6th Floor	5 days	Fri 12/10/04	Thu 12/16/04													
69		Fireproofing-High Roof	6 days	Fri 12/17/04	Fri 12/24/04													

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ID 👝	Task Name	Duration	Start	Finish	2004
1	Formwork Procurement			Eri 6/20/02	Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun
1		15 days	Mon 6/2/03	Fri 6/20/03	
2	Rebar Procurement	25 days	Mon 6/2/03	Fri 7/4/03	
3	Steel Procurement	50 days	Mon 6/2/03	Fri 8/8/03	
4	Pile Placing	12 days	Mon 6/2/03	Tue 6/17/03	
5	Pile Cap Forming	14 days	Mon 6/23/03	Thu 7/10/03	
6	Pile Cap Reinforcing Pile Cap Placing	3 days	Fri 7/11/03	Tue 7/15/03	
7	Pile Cap Placing Pile Cap Curing	2 days	Wed 7/16/03 Fri 7/18/03	Thu 7/17/03 Mon 7/21/03	
8	Pile Cap Striping	2 days 5 days	Tue 7/22/03		
	Continuous Footing Forming		Tue 7/29/03	Mon 7/28/03 Thu 9/25/03	
10	Continuous Footing Placing	43 days 1 day	Fri 9/26/03	Fri 9/26/03	
12	Continuous Footing Curing	2 days	Mon 9/29/03	Tue 9/30/03	
12	Continuous Footing Striping	15 days		Tue 10/21/03	
14	Slab on Grade Forming	-			
15	Slab on Grade Reinforcing	4 days		Tue 10/28/03	
	Slab on Grade Placing	5	Wed 10/29/03		
16 17	Slab on Grade Curing	2 days 2 days	Fri 10/31/03		
18	Slab on Grade Striping	2 days	Tue 11/4/03	Tue 11/4/03	
19	Column Forming-Basement	13 days	Wed 11/5/03		
20	Column Reinforcing-Basement	-			
20	Column Placing-Basement	1 day		Thu 11/27/03	
22	Column Curing-Basement	2 days	Fri 11/28/03		
23	Column Striping-Basement	5 days	Tue 12/2/03		
24	Two-Way Flat Slab Forming-1s	5	Tue 12/9/03	Tue 1/6/04	
25	Two-Way Flat Slab Reinforcing	-	Wed 1/7/04	Fri 1/16/04	
26	Two-Way Flat Slab Placing-1st		Mon 1/19/04	Thu 1/22/04	
27	Two-Way Flat Slab Curing-1st	-	Fri 1/23/04	Mon 1/26/04	
28	Two-Way Flat Slab Striping-1st	-	Tue 1/27/04	Wed 2/4/04	
29	Column Forming-1st Floor	16 days	Thu 2/5/04	Thu 2/26/04	
30	Shear Wall Forming-1st Floor	6 days	Thu 2/5/04	Thu 2/12/04	
31	Column Reinforcing-1st Floor	4 days	Fri 2/27/04	Wed 3/3/04	
32	Shear Wall Reinforcing-1st Flo	-	Fri 2/13/04	Tue 2/17/04	
33	Column Placing-1st Floor	1 day	Thu 3/4/04	Thu 3/4/04	
34	Shear Wall Placing-1st Floor	1 day		Wed 2/18/04	
35	Column Curing-1st Floor	2 days	Fri 3/5/04	Mon 3/8/04	
36	Shear Wall Curing-1st Floor	2 days	Thu 2/19/04	Fri 2/20/04	
37	Column Striping-1st Floor	6 days	Tue 3/9/04	Tue 3/16/04	
38	Shear Wall Striping-1st Floor	2 days	Mon 2/23/04	Tue 2/24/04	
39	Two-Way Flat Slab Forming-2r	-	Wed 3/17/04	Wed 4/14/04	
40	Two-Way Flat Slab Reinforcing		Thu 4/15/04	Mon 4/26/04	
41	Two-Way Flat Slab Placing-2nd	-	Tue 4/27/04	Fri 4/30/04	
42	Two-Way Flat Slab Curing-2nd	-	Mon 5/3/04	Tue 5/4/04	
43	Two-Way Flat Slab Striping-2n	-	Wed 5/5/04	Thu 5/13/04	
44	Column Forming-2nd Floor	16 days	Fri 5/14/04	Fri 6/4/04	
45	Shear Wall Forming-2nd Floor		Fri 5/14/04	Fri 5/21/04	$\Delta = \frac{1}{2}$
46	Column Reinforcing-2nd Floor	4 days	Mon 6/7/04	Thu 6/10/04	
47	Shear Wall Reinforcing-2nd Flo	o 3 days	Mon 5/24/04	Wed 5/26/04	
48	Column Placing-2nd Floor	1 day	Fri 6/11/04	Fri 6/11/04	
49	Shear Wall Placing-2nd Floor	1 day	Thu 5/27/04	Thu 5/27/04	$\mathbf{x} = \mathbf{x}$
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ID	0	Task Name	Duration	Start	Finish					Nov	Dec Jan	Feb	Mar	Apr	Mov		۸	Son 1
50	<u> </u>	Column Curing-2nd Floor	2 days	Mon 6/14/04	Tue 6/15/04	Jun	Jul	Aug Sep	Oct	INOV	Dec Jan	Feb	iviar i	Apr	May Ju	in Jul	Aug	Sep
51		Shear Wall Curing-2nd Floor	2 days	Fri 5/28/04	Mon 5/31/04													
52		Column Striping-2nd Floor	6 days	Wed 6/16/04	Wed 6/23/04											Δ η		
53		Shear Wall Striping-2nd Floor	2 days	Thu 6/24/04	Fri 6/25/04											Т <mark>к</mark>		
54		Two-Way Flat Slab Forming-3rc	21 days	Mon 6/28/04	Mon 7/26/04													
55		Two-Way Flat Slab Reinforcing	8 days	Tue 7/27/04	Thu 8/5/04													
56		Two-Way Flat Slab Placing-3rd	4 days	Fri 8/6/04	Wed 8/11/04												Δ,	
57		Two-Way Flat Slab Curing-3rd I	2 days	Thu 8/12/04	Fri 8/13/04												, K	
58		Two-Way Flat Slab Striping-3rd	7 days	Mon 8/16/04	Tue 8/24/04												້ 🎽	
59		Column Forming-3rd Floor	16 days	Wed 8/25/04	Wed 9/15/04													
60		Shear Wall Forming-3rd Floor	6 days	Wed 8/25/04	Wed 9/1/04												2	
61		Column Reinforcing-3rd Floor	4 days	Thu 9/16/04	Tue 9/21/04													Δ
62		Shear Wall Reinforcing-3rd Floc	3 days	Thu 9/2/04	Mon 9/6/04													Š
63		Column Placing-3rd Floor	1 day	Wed 9/22/04	Wed 9/22/04													, F
64		Shear Wall Placing-3rd Floor	1 day	Tue 9/7/04	Tue 9/7/04													Γ, L
65		Column Curing-3rd Floor	2 days	Thu 9/23/04	Fri 9/24/04													
66		Shear Wall Curing-3rd Floor	2 days	Wed 9/8/04	Thu 9/9/04													Γ, L
67		Column Striping-3rd Floor	6 days	Mon 9/27/04	Mon 10/4/04													🍢
68		Shear Wall Striping-3rd Floor	2 days	Fri 9/10/04	Mon 9/13/04													Ŭ.
69		Two-Way Flat Slab Forming-4th	21 days	Tue 10/5/04	Tue 11/2/04													
70		Two-Way Flat Slab Reinforcing-	8 days	Wed 11/3/04	Fri 11/12/04													
71		Two-Way Flat Slab Placing-4th	4 days	Mon 11/15/04	Thu 11/18/04													
72		Two-Way Flat Slab Curing-4th I	2 days	Fri 11/19/04	Mon 11/22/04													
73		Two-Way Flat Slab Striping-4th	7 days	Tue 11/23/04	Wed 12/1/04													
74		Column Forming-4th Floor	13 days	Thu 12/2/04	Mon 12/20/04													
75		Shear Wall Forming-4th Floor	6 days	Thu 12/2/04	Thu 12/9/04													
76		Column Reinforcing-4th Floor	6 days	Tue 12/21/04	Tue 12/28/04													
77		Shear Wall Reinforcing-4th Floc	3 days	Fri 12/10/04														
78		Column Placing-4th Floor	1 day	Wed 12/29/04														
79		Shear Wall Placing-4th Floor	-		Wed 12/15/04													
80		Column Curing-4th Floor	-	Thu 12/30/04	Fri 12/31/04													
81		Shear Wall Curing-4th Floor	2 days	Thu 12/16/04	Fri 12/17/04													
82		Column Striping-4th Floor	5 days	Mon 1/3/05	Fri 1/7/05													
83		Shear Wall Striping-4th Floor	-	Mon 12/20/04														
84		Two-Way Flat Slab Forming-5th	20 days	Mon 1/10/05	Fri 2/4/05													
85		Two-Way Flat Slab Reinforcing	8 days	Mon 2/7/05	Wed 2/16/05													
86		Two-Way Flat Slab Placing-5th	4 days	Thu 2/17/05	Tue 2/22/05													
87		Two-Way Flat Slab Curing-5th F	2 days	Wed 2/23/05	Thu 2/24/05													
88		Two-Way Flat Slab Striping-5th	7 days	Fri 2/25/05	Mon 3/7/05													
89		Column Forming-5th Floor	9 days	Tue 3/8/05	Fri 3/18/05													
90		Shear Wall Forming-5th Floor	6 days	Tue 3/8/05	Tue 3/15/05													
91 92		Column Reinforcing-5th Floor Shear Wall Reinforcing-5th Floor	2 days	Mon 3/21/05 Wed 3/16/05	Tue 3/22/05 Fri 3/18/05													
		Column Placing-5th Floor		Wed 3/16/05 Wed 3/23/05	Wed 3/23/05													
93 94		Shear Wall Placing-5th Floor	1 day 1 day	Mon 3/21/05	Mon 3/21/05													
94		Column Curing-5th Floor	2 days	Thu 3/24/05	Fri 3/25/05													
95		Shear Wall Curing-5th Floor	2 days 2 days	Tue 3/22/05	Wed 3/23/05													
96		Column Striping-5th Floor	2 days 3 days	Mon 3/28/05	Wed 3/23/05 Wed 3/30/05													
97		Shear Wall Striping-5th Floor	2 days	Thu 3/24/05	Fri 3/25/05													
			2 uays	110 3/24/03	111 3/23/03													
		Tasl	<		Prog	gress			Summar	ry			External T	asks			Deadline	仑
		Split			Miles	stone	•		Project S	Summary	\bigtriangledown		External N	lilestone				



00 SI 01 SI 02 SI 03 SI	Shear Wall Forming-Low Roof		Start	Finish					<u> </u>			2004									
00 SI 01 SI 02 SI 03 SI	-	5 days	Mon 3/28/05	Fri 4/1/05	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Auç	I Se	ep
01 SI 02 SI 03 SI	Shear Wall Reinforcing-Low Ro	2 days	Mon 4/4/05	Tue 4/5/05																	
03 SI	Shear Wall Placing-Low Roof	1 day	Wed 4/6/05	Wed 4/6/05																	
	Shear Wall Curing-Low Roof	2 days	Thu 4/7/05	Fri 4/8/05																	
	Shear Wall Striping-Low Roof	2 days	Mon 4/11/05	Tue 4/12/05																	
04 Be	Beam Forming-6th Floor	3 days	Wed 4/13/05	Fri 4/15/05																	
05 O	Dne-Way Slab Forming-6th Flo	7 days	Wed 4/13/05	Thu 4/21/05																	
06 Be	Beam Reinforcing-6th Floor	1 day	Fri 4/22/05	Fri 4/22/05																	
07 O	Dne-Way Slab Reinforcing-6th	1 day	Fri 4/22/05	Fri 4/22/05																	
08 Be	Beam Placing-6th Floor	1 day	Mon 4/25/05	Mon 4/25/05																	
09 O	One-Way Slab Placing-6th Floo	1 day	Mon 4/25/05	Mon 4/25/05																	
10 Be	Beam Curing-6th Floor	2 days	Tue 4/26/05	Wed 4/27/05																	
	Dne-Way Slab Curing-6th Floor	2 days	Tue 4/26/05	Wed 4/27/05																	
	Beam Striping-6th Floor	1 day	Thu 4/28/05	Thu 4/28/05																	
	Dne-Way Slab Striping-6th Floc	3 days	Thu 4/28/05	Mon 5/2/05																	
	Column Forming-6th Floor	5 days	Tue 5/3/05	Mon 5/9/05																	
	Column Reinforcing-6th Floor	2 days	Tue 5/10/05	Wed 5/11/05																	
	Column Placing-6th Floor	1 day	Thu 5/12/05	Thu 5/12/05																	
	Column Curing-6th Floor	2 days	Fri 5/13/05	Mon 5/16/05																	
	Column Striping-6th Floor	2 days	Tue 5/17/05	Wed 5/18/05																	
	Column Erection-Low Roof	1 day	Thu 5/19/05	Thu 5/19/05																	
	Beam Erection-Low Roof	2 days	Fri 5/20/05 Tue 5/24/05	Mon 5/23/05																	
	Beam Erection-High Roof Roof Deck Erection-Low Roof	9 days 2 days	Mon 6/6/05	Fri 6/3/05 Tue 6/7/05																	
	Roof Deck Erection-High Roof	2 days 1 day	Wed 6/8/05	Wed 6/8/05																	
	Fireproofing-Low Roof	6 days	Thu 6/9/05	Thu 6/16/05																	
	Fireproofing-High Roof	4 days	Fri 6/17/05	Wed 6/22/05																	

Summary

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Project Summary
External Milestone

External Tasks

Deadline

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Progress

Milestone

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