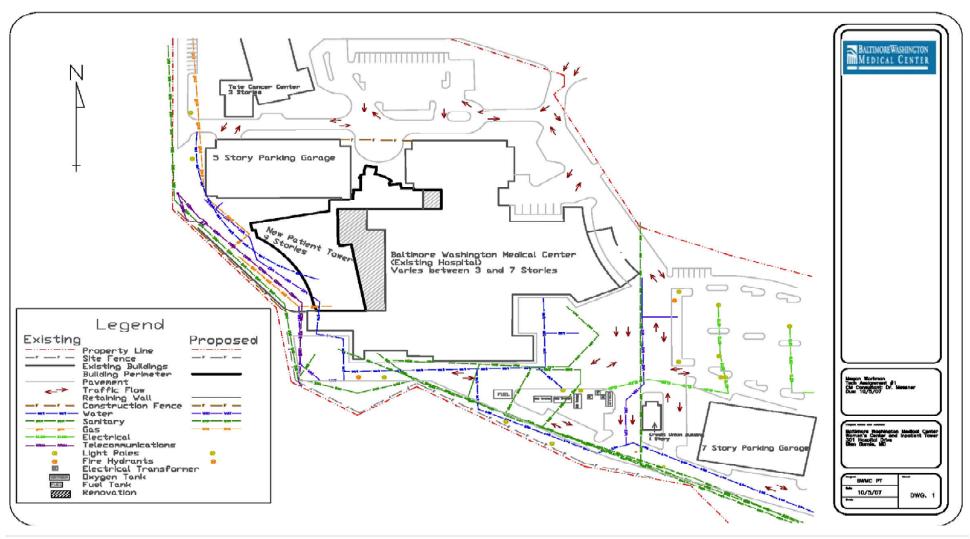
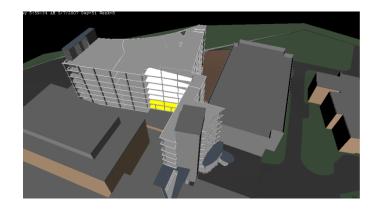


APPENDIX A: EXISTING SITE PLAN

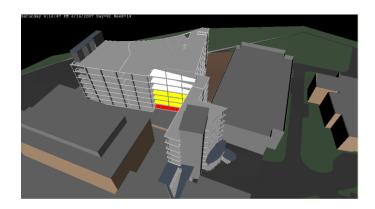


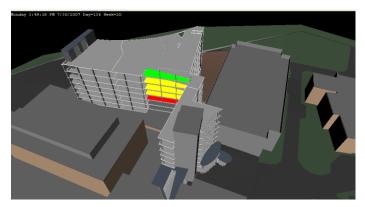


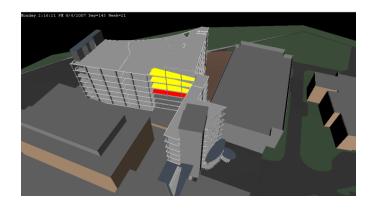
APPENDIX B: 4D MODEL IMAGES Structural 4D Model











Color Legend

Green- Composite Slab is being constructed

Yellow-Composite Slab is completed

Red- Precast Planks are being constructed

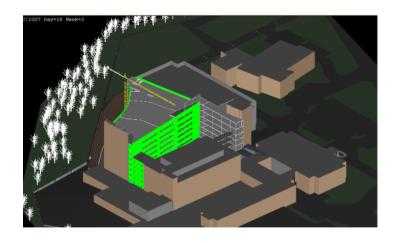
Model Appearance- Precast Planks are completed

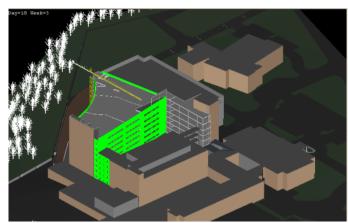


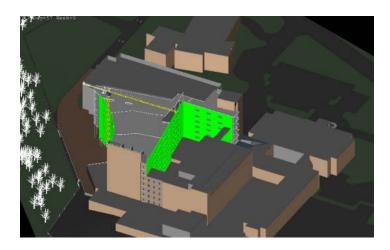
Façade 4D Model- EIFS











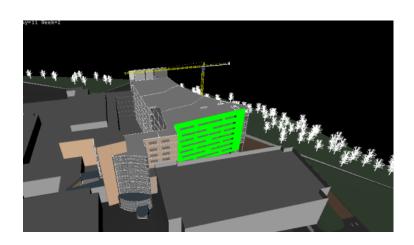
Color Legend

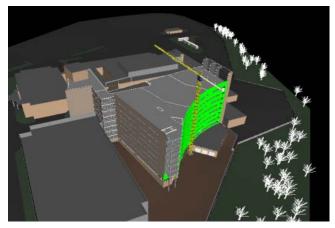
Green- EIFS is being constructed

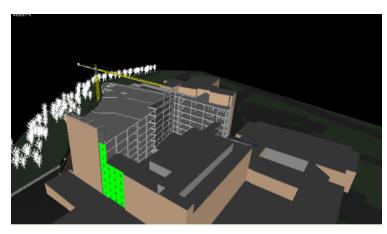
Model Appearance- EIFS is completed

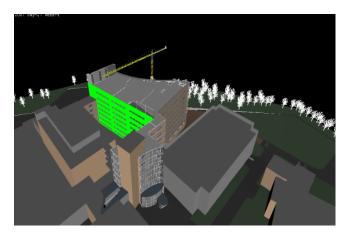


Façade 4D Model- GFRC











Color Legend

Green- GFRC is being constructed

Model Appearance- GFRC is completed



APPENDIX C: PROPRERY WINDOWS

Windows from RAM Structures

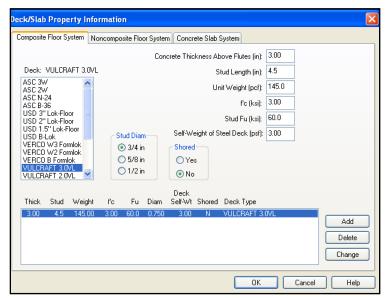


Figure 29. Deck/Slab Property Information from RAM Structures

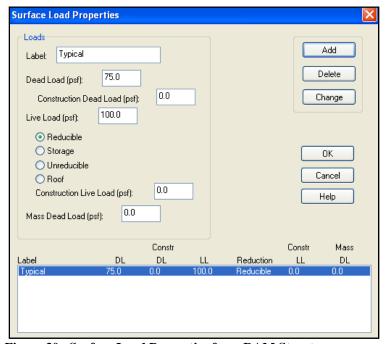


Figure 30. Surface Load Properties from RAM Structures



APPENDIX D: MATERIAL QUANTITY TAKEOFFS

Table 21: Precast Plank System Takeoff

Precast Concrete Hollow	Core Planks	Takeoff
Item	Units	Quantity
8" Hollow Planks	sf	7252
2" Concrete Topping	sf	7252
6"x 6" W1.4 x W1.4 W.W.F	sf	7252

Table 22: Structural Steel Takeoff

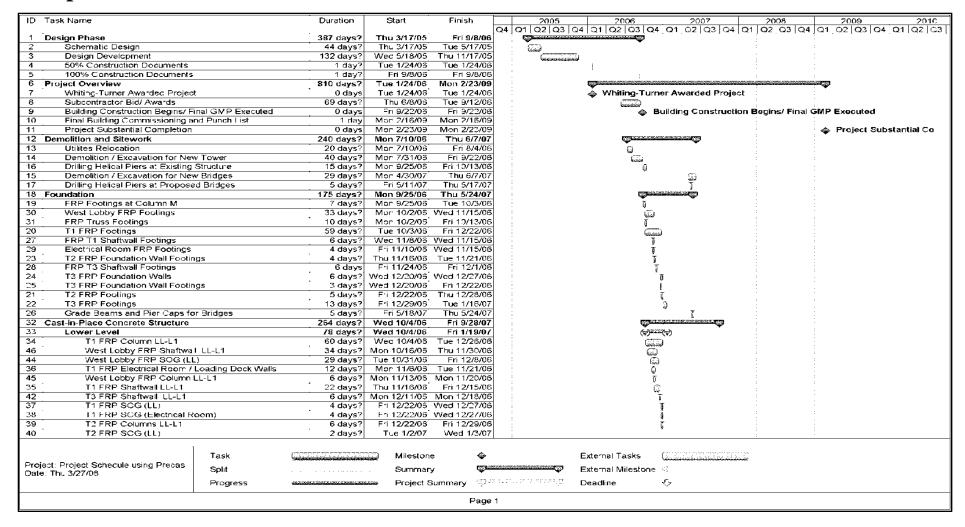
Struc	tural Steel Ta	akeoff	
Member Size	Quantity	At Length (LF)	Tot Length (LF)
W8x10	7	17	119
W8x10	7	15	105
W8x10	7	13	91
W8x10	7	12	84
W8x10	7	10	70
	Total Be	am Length (LF)=	469

Table 23: Composite Slab System Takeoff

Composite Sla	ab Takeoff	
Item	Units	Quantity
6" Concrete Slab	sf	7252
6"x 6" W1.4 x W1.4 W.W.F	sf	7252
3" 20 Gauge Metal Decking	sf	7252



APPENDIX E: STRUCTURAL SYSTEMS SCHEDULES **Composite Slab Structural Schedule**





41 43 47 56 48 57 58 49 50 51 53 53 55 54 55 59 61 60 62 63 66 67 67 68 69 70 71 72 73 78 74	T3 FRP Columni LL-L1 T3 FRP SOG (LL) Level 1 WL FRP Concrete Slab (L1) T1 FRP Concrete Slab (L1) WL FRP Columns (L1) WL FRP Shaftwall (L1) T1 FRP Columns (L1) T1 FRP Columns (L1) T2 FRP Concrete Slab (L1) T3 FRP Concrete Slab (L1) T3 FRP Columns (L1) T3 FRP Columns (L1) T3 FRP Columns (L1) T3 FRP Columns (L1) T3 FRP Concrete Slab (L2) WL FRP Concrete Slab (L2) WL FRP Concrete Slab (L2) WL FRP Columns (L2) T2 FRP Concrete Slab (L2) T3 FRP Concrete Slab (L2)		12 days? 13 days? 48 days? 11 days? 11 days? 3 days? 7 days? 11 days? 13 days? 6 days? 6 days? 54 days? 29 days? 11 days?	Tue 1/2/07 Wed 1/3/07 Wed 12/6/06 Wed 12/6/06 Fri 12/29/06 Wed 1/10/07 Fri 1/12/07 Fri 1/12/07 Fri 1/12/07 Mon 1/29/07 Mon 1/29/07 Wed 1/3/07 Wed 1/3/07 Wed 1/3/07 Wed 1/3/07 Fri 1/12/07	Wed 1/17/07 Fri 1/19/07 Fri 2/9/07 Wed 12/20/06 Fri 1/12/07 Fri 1/12/07 Thu 1/18/07 Fri 1/26/07 Fri 1/26/07 Tou 1/30/07 Tue 1/30/07 Tie 1/30/07	<u>Q4 Q1 Q2 Q3 </u>	Q4 Q1 Q2		3 Q4 Q1 Q2 Q3	<u>Q4 Q1 Q2 Q3</u>	4 Q1 Q2 Q3
43 47 56 48 57 58 49 50 51 53 52 54 55 59 61 60 62 63 66 67 64 65 68 69 70 71 72 73 78 78	T3 FRP SOG (LL) Level 1 WL FRP Concrete Slab (L1) T1 FRP Concrete Slab (L1) WL FRP Columns (L1) WL FRP Shaftwall (L1) T1 FRP Columns (L1) T1 FRP Columns (L1) T2 FRP Concrete Slab (L1) T3 FRP Concrete Slab (L1) T3 FRP Columns (L1) T3 FRP Columns (L1) T3 FRP Shaftwall (L1) Level 2 T1 FRP Concrete Slab (L2) WL FRP Concrete Slab (L2) WL FRP Concrete Slab (L2) T2 FRP Concrete Slab (L2) T2 FRP Concrete Slab (L2) T3 FRP Concrete Slab (L2) T4 FRP Concrete Slab (L2) T5 FRP Concrete Slab (L2) T6 FRP Concrete Slab (L2)		13 days? 48 days? 11 days? 11 days? 3 days? 7 days? 11 days? 11 days? 13 days? 6 days? 6 days? 54 days? 2 days? 11 days?	Wed 1/3/07 Wed 12/6/06 Wed 12/6/06 Fri 12/29/06 Wed 1/10/07 Wed 1/10/07 Fri 1/12/07 Fri 1/12/07 Fri 1/12/07 Mon 1/29/07 Fri 2/2/07 Wed 1/3/07 Wed 1/3/07	Fri 1/19/07 Fri 2/9/07 Wed 12/20/06 Fri 1/12/07 Fri 1/12/07 Thu 1/18/07 Fri 1/26/07 Fri 1/26/07 Mon 1/22/07 Tue 1/30/07 Tue 1/30/07 Fri 2/9/07 Fri 2/9/07 Mon 3/19/07			7 - 5 - 6 - 5 - 6 - 5 - 6 - 5 - 6 - 5 - 6 - 5 - 5			
47 56 48 57 58 49 50 51 53 52 54 55 59 61 60 62 63 66 67 64 65 68 69 70 71 72 73 78 74	WL FRP Concrete Slab (L1) T1 FRP Concrete Slab (L1) WL FRP Columns (L1) WL FRP Shaftwall (L1) T1 FRP Columns (L1) T1 FRP Shaftwall (L1) T2 FRP Concrete Slab (L1) T3 FRP Concrete Slab (L1) T3 FRP Columns (L1) T3 FRP Columns (L1) T3 FRP Columns (L1) T3 FRP Shaftwall (L1) Level 2 T1 FRP Concrete Slab (L2) WL FRP Concrete Slab (L2) WL FRP Concrete Slab (L2) WL FRP Concrete Slab (L2) T2 FRP Concrete Slab (L2) T3 FRP Concrete Slab (L2)		48 days? 11 days? 11 days? 11 days? 7 days? 7 days? 11 days? 13 days? 6 days? 6 days? 6 days? 29 days? 11 days? 10 days?	Wed 12/6/06 Wed 12/6/06 Fri 12/29/06 Wed 1/10/07 Wed 1/10/07 Fri 1/12/07 Fri 1/12/07 Fri 1/12/07 Fri 1/12/07 Fri 1/12/07 Mon 1/29/07 Fri 2/2/07 Wed 1/3/07 Wed 1/3/07	Fri 2/9/07 Wed 12/20/06 Fri 1/12/07 Fri 1/12/07 Fri 1/12/07 Fri 1/26/07 Fri 1/26/07 Mon 1/22/07 Tue 1/30/07 Tue 1/30/07 Fri 2/9/07 Fri 2/9/07 Mon 3/19/07			7 - 5 - 6 - 5 - 6 - 5 - 6 - 5 - 6 - 5 - 6 - 5 - 5			
56 48 57 58 49 50 51 53 52 54 55 55 66 62 63 66 67 77 70 71 72 73	WL FRP Concrete Slab (L1) T1 FRP Concrete Slab (L1) WL FRP Columns (L1) WL FRP Shaftwall (L1) T1 FRP Columns (L1) T1 FRP Shaftwall (L1) T2 FRP Concrete Slab (L1) T3 FRP Concrete Slab (L1) T3 FRP Columns (L1) T3 FRP Columns (L1) T3 FRP Columns (L1) T3 FRP Shaftwall (L1) Level 2 T1 FRP Concrete Slab (L2) WL FRP Concrete Slab (L2) WL FRP Columns (L2) T2 FRP Concrete Slab (L2) T3 FRP Concrete Slab (L2) T3 FRP Concrete Slab (L2)		11 days? 11 days? 3 days? 7 days? 11 days? 11 days? 13 days? 6 days? 6 days? 54 days? 29 days? 11 days?	Wed 12/6/06 Fri 12/29/06 Wed 1/10/07 Wed 1/10/07 Fri 1/12/07 Fri 1/12/07 Fri 1/12/07 Mon 1/29/07 Fri 2/2/07 Fri 2/2/07 Wed 1/3/07 Wed 1/3/07	Wed 12/20/06 Fri 1/12/07 Fri 1/12/07 Thu 1/18/07 Fri 1/26/07 Fri 1/26/07 Mon 1/22/07 Tue 1/30/07 Tue 1/30/07 Fri 2/9/07 Mon 3/19/07 Mon 3/19/07						
48 57 58 49 50 51 53 52 54 55 59 61 60 62 63 66 67 64 65 68 69 70 71 72 73 78 74	T1 FRP Concrete Slab (L1) WL FRP Columns (L1) WL FRP Shaftwall (L1) T1 FRP Columns (L1) T1 FRP Columns (L1) T2 FRP Concrete Slab (L1) T3 FRP Concrete Slab (L1) T3 FRP Columns (L1) T3 FRP Columns (L1) T3 FRP Columns (L1) T3 FRP Columns (L2) WL FRP Concrete Slab (L2) WL FRP Concrete Slab (L2) WL FRP Columns (L2) T2 FRP Concrete Slab (L2) T2 FRP Concrete Slab (L2) T3 FRP Concrete Slab (L2) T3 FRP Concrete Slab (L2)		11 days? 3 days? 7 days? 11 days? 11 days? 13 days? 2 days? 6 days? 6 days? 54 days? 29 days? 11 days?	Fri 12/29/06 Wed 1/10/07 Wed 1/10/07 Fri 1/12/07 Fri 1/12/07 Fri 1/12/07 Mon 1/29/07 Fri 2/2/07 Fri 2/2/07 Wed 1/3/07 Wed 1/3/07	Fri 1/12/07 Fri 1/12/07 Thu 1/18/07 Fri 1/26/07 Fri 1/26/07 Mon 1/22/07 Tue 1/30/07 Tue 1/30/07 Fri 2/9/07 Fri 2/9/07 Mon 3/19/07						
57 58 49 50 51 53 52 54 55 59 61 60 62 63 66 67 64 65 68 69 70 71 72 73 78 74	WL FRP Columns (L1) WL FRP Shaftwall (L1) T1 FRP Columns (L1) T1 FRP Shaftwall (L1) T2 FRP Concrete Slab (L1) T3 FRP Columns (L1) T3 FRP Columns (L1) T3 FRP Columns (L1) T3 FRP Shaftwall (L1) Level 2 T1 FRP Concrete Slab (L2) WL FRP Concrete Slab (L2) WL FRP Concrete Slab (L2) WL FRP Shaftwall (L2) T2 FRP Concrete Slab (L2) T3 FRP Concrete Slab (L2)		3 days? 7 days? 11 days? 11 days? 7 days? 13 days? 2 days? 6 days? 6 days? 54 days? 11 days? 11 days?	Wed 1/10/07 Wed 1/10/07 Fri 1/12/07 Fri 1/12/07 Fri 1/12/07 Fri 1/12/07 Mon 1/29/07 Fri 2/2/07 Wed 1/3/07 Wed 1/3/07	Fri 1/12/07 Thu 1/18/07 Fri 1/26/07 Fri 1/26/07 Mon 1/22/07 Tue 1/30/07 Tue 1/30/07 Fri 2/9/07 Fri 2/9/07 Mon 3/19/07						
58 49 50 51 50 50 51 53 52 54 55 59 61 60 62 63 66 67 64 65 68 69 70 71 72 73 78 74	WL FRP Shaftwall (L1) T1 FRP Columns (L1) T1 FRP Shaftwall (L1) T2 FRP Concrete Slab (L1) T3 FRP Concrete Slab (L1) T3 FRP Columns (L1) T3 FRP Columns (L1) T3 FRP Shaftwall (L1) Level 2 T1 FRP Concrete Slab (L2) WL FRP Columns (L2) WL FRP Columns (L2) WL FRP Columns (L2) T2 FRP Concrete Slab (L2) T3 FRP Concrete Slab (L2) T3 FRP Concrete Slab (L2)		7 days? 11 days? 11 days? 7 days? 7 days? 2 days? 6 days? 6 days? 54 days? 29 days? 11 days? 10 days?	Wed 1/10/07 Fri 1/12/07 Fri 1/12/07 Fri 1/12/07 Fri 1/12/07 Mon 1/29/07 Fri 2/2/07 Wed 1/3/07 Wed 1/3/07	Thu 1/18/07 Fri 1/26/07 Fri 1/26/07 Mon 1/22/07 Tue 1/30/07 Tue 1/30/07 Fri 2/9/07 Fri 2/9/07 Mon 3/19/07						
49 50 51 53 52 54 55 55 59 61 60 62 63 66 67 64 65 68 69 70 71 72 73 78 74	T1 FRP Columns (L1) T1 FRP Shaftwall (L1) T2 FRP Concrete Slab (L1) T3 FRP Concrete Slab (L1) T3 FRP Columns (L1) T3 FRP Columns (L1) T3 FRP Shaftwall (L1) Level 2 T1 FRP Concrete Slab (L2) WL FRP Concrete Slab (L2) WL FRP Columns (L2) WL FRP Columns (L2) T2 FRP Concrete Slab (L2) T3 FRP Concrete Slab (L2)		11 days? 11 days? 7 days? 13 days? 2 days? 6 days? 6 days? 54 days? 29 days? 11 days? 10 days?	Fri 1/12/07 Fri 1/12/07 Fri 1/12/07 Fri 1/12/07 Mon 1/29/07 Fri 2/2/07 Fri 2/2/07 Wed 1/3/07 Wed 1/3/07	Fri 1/26/07 Fri 1/26/07 Mon 1/22/07 Tue 1/30/07 Tue 1/30/07 Fri 2/9/07 Fri 2/9/07 Mon 3/19/07						
50 51 53 52 54 55 59 61 60 62 63 66 67 64 65 68 69 70 71 72 73	T1 FRP Shaftwall (L1) T2 FRP Concrete Slab (L1) T3 FRP Concrete Slab (L1) T2 FRP Columns (L1) T3 FRP Columns (L1) T3 FRP Shaftwall (L1) Level 2 T1 FRP Concrete Slab (L2) WL FRP Concrete Slab (L2) WL FRP Columns (L2) WL FRP Columns (L2) T2 FRP Concrete Slab (L2) T3 FRP Concrete Slab (L2)		11 days? 7 days? 13 days? 2 days? 6 days? 6 days? 54 days? 29 days? 11 days?	Fri 1/12/07 Fri 1/12/07 Fri 1/12/07 Mon 1/29/07 Fri 2/2/07 Fri 2/2/07 Wed 1/3/07 Wed 1/3/07	Fri 1/26/07 Mon 1/22/07 Tue 1/30/07 Tue 1/30/07 Fri 2/9/07 Fri 2/9/07 Mon 3/19/07						
51 53 55 52 54 55 59 61 60 62 63 66 67 64 65 68 69 70 71 72 73 78	T2 FRP Concrete Slab (L1) T3 FRP Concrete Slab (L1) T2 FRP Columns (L1) T3 FRP Columns (L1) T3 FRP Shaftwall (L1) Level 2 T1 FRP Concrete Slab (L2) WL FRP Concrete Slab(L2) WL FRP Columns (L2) WL FRP Shaftwall (L2) T2 FRP Concrete Slab (L2) T3 FRP Concrete Slab (L2)		7 days? 13 days? 2 days? 6 days? 6 days? 54 days? 29 days? 11 days? 10 days?	Fri 1/12/07 Fri 1/12/07 Mon 1/29/07 Fri 2/2/07 Fri 2/2/07 Wed 1/3/07 Wed 1/3/07	Mon 1/22/07 Tue 1/30/07 Tue 1/30/07 Fri 2/9/07 Fri 2/9/07 Mon 3/19/07						
53 52 54 55 59 61 60 62 63 66 67 64 65 68 69 70 71 72 73 78 74	T3 FRP Concrete Slab (L1) T2 FRP Columns (L1) T3 FRP Columns (L1) T3 FRP Shaftwall (L1) Level 2 T1 FRP Concrete Slab (L2) WL FRP Concrete Slab(L2) WL FRP Columns (L2) WL FRP Shaftwall (L2) T2 FRP Concrete Slab (L2) T3 FRP Concrete Slab (L2)		13 days? 2 days? 6 days? 6 days? 54 days? 29 days? 11 days? 10 days?	Fri 1/12/07 Mon 1/29/07 Fri 2/2/07 Fri 2/2/07 Wed 1/3/07 Wed 1/3/07	Tue 1/30/07 Tue 1/30/07 Fri 2/9/07 Fri 2/9/07 Mon 3/19/07						
52 54 55 55 59 61 60 62 63 66 67 64 65 68 69 70 71 72 73 78	T2 FRP Columns (L1) T3 FRP Columns (L1) T3 FRP Shaftwall (L1) Level 2 T1 FRP Concrete Slab (L2) WL FRP Concrete Slab(L2) WL FRP Columns (L2) WL FRP Shaftwall (L2) T2 FRP Concrete Slab (L2) T3 FRP Concrete Slab (L2)		2 days? 6 days? 6 days? 54 days? 29 days? 11 days? 10 days?	Mon 1/29/07 Fri 2/2/07 Fri 2/2/07 Wed 1/3/07 Wed 1/3/07	Tue 1/30/07 Fri 2/9/07 Fri 2/9/07 Mon 3/19/07						
54 55 59 61 60 62 63 66 67 64 65 68 69 70 71 72 73 78	T3 FRP Columns (L1) T3 FRP Shaftwall (L1) Level 2 T1 FRP Concrete Slab (L2) WL FRP Concrete Slab(L2) WL FRP Columns (L2) WL FRP Shaftwall (L2) T2 FRP Concrete Slab (L2) T3 FRP Concrete Slab (L2)		6 days? 6 days? 54 days? 29 days? 11 days? 10 days?	Fri 2/2/07 Fri 2/2/07 Wed 1/3/07 Wed 1/3/07	Fri 2/9/07 Fri 2/9/07 Mon 3/19/07						
55 59 61 60 62 63 66 67 64 65 68 69 70 71 72 73 78	T3 FRP Shaftwall (L1) Level 2 T1 FRP Concrete Slab (L2) WL FRP Concrete Slab(L2) WL FRP Columns (L2) WL FRP Shaftwall (L2) T2 FRP Concrete Slab (L2) T3 FRP Concrete Slab (L2)		6 days? 54 days? 29 days? 11 days? 10 days?	Fri 2/2/07 Wed 1/3/07 Wed 1/3/07	Fri 2/9/07 Mon 3/19/07						
59 61 60 62 63 66 67 64 65 68 69 70 71 72 73 78	Level 2 T1 FRP Concrete Slab (L2) WL FRP Concrete Slab(L2) WL FRP Columns (L2) WL FRP Shaftwall (L2) T2 FRP Concrete Slab (L2) T3 FRP Concrete Slab (L2)		54 days? 29 days? 11 days? 10 days?	Wed 1/3/07 Wed 1/3/07	Mon 3/19/07			: T	1		
61 60 62 63 66 67 64 65 68 69 70 71 72 73 78	T1 FRP Concrete Slab (L2) WL FRP Concrete Slab(L2) WL FRP Columns (L2) WL FRP Shaftwall (L2) T2 FRP Concrete Slab (L2) T3 FRP Concrete Slab (L2)		29 days? 11 days? 10 days?	Wed 1/3/07				® ≈®			
60 62 63 66 67 64 65 68 69 70 71 72 73 78 74	WL FRP Concrete Slab(L2) WL FRP Columns (L2) WL FRP Shaftwall (L2) T2 FRP Concrete Slab (L2) T3 FRP Concrete Slab (L2)		11 days? 10 days?								
62 63 66 67 64 65 68 69 70 71 72 73 78 74	WL FRP Columns (L2) WL FRP Shaftwall (L2) T2 FRP Concrete Slab (L2) T3 FRP Concrete Slab (L2)		10 days?		Mon 2/12/07 Fri 1/26/07			()			
63 66 67 64 65 68 69 70 71 72 73 78 74	WL FRP Shaftwall (L2) T2 FRP Concrete Slab (L2) T3 FRP Concrete Slab (L2)			Mon 1/29/07	Fri 2/9/07			Ų			
66 67 64 65 68 69 70 71 72 73 78 74	T2 FRP Concrete Slab (L2) T3 FRP Concrete Slab (L2)			Mon 1/29/07	Mon 2/12/07			, k			
67 64 65 68 69 70 71 72 73 78 74	T3 FRP Concrete Slab (L2)		11 days? 32 days?	Fri 2/2/07	Mon 3/19/07			Ō.			
64 65 68 69 70 71 72 73 78 74				Fri 2/9/07	Fri 2/23/07			(a)			
65 68 69 70 71 72 73 78 74	T FRE Columns (LZ)		11 days?	Mon 2/12/07	Thu 2/15/07			į.			
68 69 70 71 72 73 78 74	T1 FRP Shaftwall (L2)		4 days?		Thu 2/15/07			Ļ			
69 70 71 72 73 78 74	T2 FRP Columns (L2)		14 days?	Mon 2/12/07 Tue 2/20/07				U			
70 71 72 73 78 74			2 days?					<u> </u>			
71 72 73 78 74	T3 FRP Columns (L2)		7 days?	Thu 2/22/07	Fri 3/2/07			Ī			
72 73 78 74	T3 FRP Shaftwall (L2)		6 days?	Wed 3/7/07	Wed 3/14/07						
73 78 74	Level 3		33 days?	Tue 2/13/07	Thu 3/29/07			@ @			
78 7 4	WL FRP Concrete Slab(L3)		13 days?	Tue 2/13/07	Thu 3/1/07			Q			
74	T1 FRP Concrete Slab (L3)		14 days?	Mon 2/19/07	Thu 3/8/07			Q			
	T2 FRP Concrete Slab (L3)		12 days?	Fri 2/23/07	Mon 3/12/07			g g			
7.0	WL FRP Columns (L3)		3 days?	Mon 3/5/07	Wed 3/7/07			Ļ			
75	WL FRP Shaftwall (L3)		9 days?	Tue 3/6/07	Fri 3/16/07			Q			
79	T3 FRP Concrete Slab (L3)		9 days?	Thu 3/8/07	Tue 3/20/07			Ú			
76	T1 FRP Columns (L3)		2 days?	Fri 3/9/07	Mon 3/12/07			<u> </u>			
77	T1 FRP Shaftwall (L3)		8 days?	Wed 3/14/07	Fri 3/23/07			ğ			
80	T2 FRP Columns (L3)		2 days?	Wed 3/14/07	Thu 3/15/07			_			
81	T3 FRP Columns (L3)		7 days?	Wed 3/21/07	Thu 3/29/07			Q.			
82	T3 FRP Shaftwall (L3)		7 days?	Wed 3/21/07	Thu 3/29/07			Ţ			
83	Mechanical Room Area (L3)		1 day?	Tue 3/27/07	Tue 3/27/07						
	Level 4		27 days?	Mon 3/19/07	Mon 4/23/07			⊕			
86	T1 FRP Concrete Slab (L4)		10 days?	Mon 3/19/07	Fri 3/30/07			<u> </u>			
85	WL FRP Concrete Slab(L4)		8 days?	Tue 3/20/07	Thu 3/29/07			Ī			
91	T2 FRP Concrete Slab (L4)		6 days?	Mon 3/26/07	Mon 4/2/07			Õ			
92	T3 FRP Concrete Slab (L4)		10 days?	Thu 3/29/07	Tue 4/10/07			: 0			
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	Project Schedule using Precas:	Split		Summar	у 🗫		External Mil	estone			
	u 3/27/08	Progress		Project 8	Summary 🖽	ээлийсээл ний эээлийг 🖰	Deadline	❖			
					Page 1						



ID :	Task Name	Duration	Start	Finish		2005	2006	2007	2008	2009	2010
87	WL FRP Columns (L4)	2 days?	Fri 3/30/07	Mon 4/2/07	Q4	Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q4	<u> Q1 Q2 Q3 Q</u>	<u>4 Q1 Q2 Q3 Q4</u>	Q1 Q2 Q3 Q4 Q1	Q2 Q3
88	WL FRP Columns (E4)	4 days?	Mon 4/2/07	Thu 4/5/07				 		İ	
89	T1 FRP Columns (L4)	5 days?	Mon 4/2/07	Fri 4/6/07						•	
90	T1 FRP Shaftwall (L4)	7 days?	Mon 4/2/07	Mon 4/9/07				<u>i</u>		i	
93	T2 FRP Columns (L4)	3 days?	Fri 4/6/07	Mon 4/9/07				ř		1	
94	T3 FRP Columns (L4)	8 days?	Wed 4/11/07	Fri 4/20/07				 π		1	
95	T3 FRP Shaftwall (L4)	7 days?	Fri 4/13/07	Mon 4/23/07				V A		1	
96	Mechanical Room Area (L4)	1 day?	Tue 4/17/07	Tue 4/17/07				À		1	
97	Level 5	22 days?	Mon 4/9/07	Tue 5/8/07				<i>7</i> 0		•	
98	WL FRP Concrete Slab(L5)	5 days?	Mon 4/9/07	Fri 4/13/07				ĕ ⊛		:	
99	T1 FRP Concrete Slab (L5)	8 days?	Tue 4/10/07	Thu 4/19/07				1/2			
100	T2 FRP Concrete Slab (L5)	10 days?	Wed 4/11/07	Tue 4/24/07				ų s		1	
100	WL FRP Columns (L5)	5 days?	Mon 4/16/07	Fri 4/20/07				Ā			
101	WL FRP Columns (L5) WL FRP Shaftwall (L5)		Mon 4/16/07	Fri 4/20/07				<u>¥</u>		•	
		5 days?						į		1	
103	T3 FRP Concrete Slab (L5)	10 days?	Wed 4/18/07	Tue 5/1/07 Wed 4/25/07				Ū,		•	
	T1 FRP Columns (L5)	3 days?	Mon 4/23/07					!		i .	
105	T1 FRP Shaftwall (L5)	3 days?	Mon 4/23/07	Wed 4/25/07				Ļ		:	
106	T2 FRP Columns (L5)	3 days?	Wed 5/2/07	Fri 5/4/07				Ţ		·	
107	T3 FRP Columns (L5)	4 days?	Wed 5/2/07	Mon 5/7/07				<u> </u>		1	
108	T3 FRP Shaftwall (L5)	3 days?	Thu 5/3/07	Mon 5/7/07						•	
109	Mechanical Room Area (L5)	1 day?	Tue 5/8/07	Tue 5/8/07							
110	Level 6	29 days?	Mon 4/23/07	Thu 5/31/07				64.			
111	WL FRP Concrete Slab(L6)	6 days?	Mon 4/23/07	Mon 4/30/07				Ī			
112	T1 FRP Concrete Slab (L6)	8 days?	Tue 5/1/07	Thu 5/10/07				Ţ		1	
114	WL FRP Columns (L6)	4 days?	Tue 5/1/07	Fri 5/4/07				Į.		1	
115	WL FRP Shaftwall (L6)	4 days?	Tue 5/1/07	Fri 5/4/07				1		•	
113	T2 FRP Concrete Slab (L6)	9 days?	Thu 5/3/07	Tue 5/15/07				Ē			
116	T3 FRP Concrete Slab (L6)	9 days?	Wed 5/9/07	Mon 5/21/07				a		•	
117	T1 FRP Columns (L6)	5 days?	Mon 5/14/07	Fri 5/18/07				!		£	
118	T1 FRP Shaftwall (L6)	5 days?	Mon 5/14/07	Fri 5/18/07							
119	T2 FRP Columns (L6)	2 days?	Fri 5/18/07	Mon 5/21/07				Ĺ		1	
120	T3 FRP Columns (L6)	7 days?	Tue 5/22/07	Wed 5/30/07				<u>Q</u>			
121	T3 FRP Shaftwall (L6)	8 days?	Tue 5/22/07	Thu 5/31/07				Q		1	
122	Mechanical Room Area (L6)	1 day?	Mon 5/28/07	Mon 5/28/07				_:_			
123	Level 7	34 days?	Mon 5/7/07	Thu 6/21/07				® ®			
124	WL FRP Concrete Slab(L7)	5 days?	Mon 5/7/07	Fri 5/11/07				Ļ		1	
127	WL FRP Columns (L7)	2 days?	Mon 5/14/07	Tue 5/15/07						:	
128	WL FRP Shaftwall (L7)	5 days?	Mon 5/14/07	Fri 5/18/07				l_		•	
125	T1 FRP Concrete Slab (L7)	11 days?	Mon 5/21/07	Mon 6/4/07				Q			
126	T2 FRP Concrete Slab (L7)	10 days?	Tue 5/22/07	Mon 6/4/07				Q		:	
129	T3 FRP Concrete Slab (L7)	11 days?	Tue 5/29/07	Tue 6/12/07				9		1	
130	T1 FRP Columns (L7)	1 day?	Mon 6/11/07	Mon 6/11/07						:	
131	T1 FRP Shaftwall (L7)	2 days?	Mon 6/11/07	Tue 6/12/07				i		i	
132	T2 FRP Columns (L7)	1 day?	Mon 6/11/07	Mon 6/11/07				i.		:	
133	T3 FRP Columns (L7)	4 days?	Mon 6/18/07	Thu 6/21/07						:	
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134	T3 FRP Shaftwall (L7)	3 days?	Mon 6/18/07	Wed 6/20/07	Q4 Q1 Q2 Q3 Q4 Q1 Q3 Q4 Q1 Q1 Q3 Q4 Q1 Q1 Q3 Q4 Q1 Q1 Q3 Q4 Q1 Q1 Q1 Q1 Q1 Q1 Q1
135	Mechanical Room Area (L7)	1 day?	Tue 6/19/07	Tue 6/19/07	7 ;
136	Level 8	37 days?	Mon 5/21/07	Tue 7/10/07	√
137	WL FRP Concrete Slab(L8)	5 days?	Mon 5/21/07	Fri 5/25/07	
140	WL FRP Columns (L8)	9 days?	Tue 5/29/07	Fri 6/8/07	
141	WL FRP Shaftwall (L8)	6 days?	Fri 6/1/07	Fri 6/8/07	
138	T1 FRP Concrete Slab (L8)	8 days?	Wed 6/13/07	Fri 6/22/07	
139	T2 FRP Concrete Slab (L8)	6 days?	Fri 6/15/07	Fri 6/22/07	
142	T3 FRP Concrete Slab (L8)	9 days?	Tue 6/19/07	Fri 6/29/07	
143	T1 FRP Columns (L8)	7 days?	Fri 6/22/07	Mon 7/2/07	:
144	T1 FRP Shaftwall (L8)	7 days?	Fri 6/22/07	Mon 7/2/07	
145	T2 FRP Columns (L8)	4 days?	Wed 6/27/07	Mon 7/2/07	
146	T3 FRP Columns (L8)	3 days?	Tue 7/3/07	Thu 7/5/07	X
147	T3 FRP Shaftwall (L8)	4 days?	Thu 7/5/07	Tue 7/10/07	
148	Mechanical Room Area (L8)	1 day?	Fri 7/6/07	Fri 7/6/07	
149	Level 9	38 days?	Wed 6/6/07	Fri 7/27/07	
155	T3 FRP Shaftwall EL. 160 to 172	25 days?	Wed 6/6/07	Tue 7/10/07	
156	WLFRP Concrete Slab (L9)	15 days?	Mon 6/11/07	Fri 6/29/07	
150	T1 FRP Concrete Slab (L9)	9 days?	Tue 7/3/07	Fri 7/13/07	
153	T2 FRP Concrete Slab (L9)	9 days?	Tue 7/3/07	Fri 7/13/07	
154	T3 FRP Concrete Slab (L9)	11 days?	Fri 7/6/07	Fri 7/20/07	
151	T1 FRP Shaftwall EL. 160 to 181		Mon 7/16/07	Thu 7/26/07	
		9 days?		Thu 7/26/07	T :
152 157	Concrete Topping Out	0 days	Thu 7/26/07		
158	Mechanical Room Area (L9)	1 day?	Fri 7/27/07	Fri 7/27/07 Fri 8/10/07	→
	Elevator Machine Rooms	26 days?	Tue 7/10/07		
160	FRP Elev. 13/14 Mach. Rm.	26 days?	Tue 7/10/07	Fri 8/10/07	
159	FRP Elev. 17/18 Mach. Rm.	8 days?	Mon 7/30/07	Tue 8/7/07	→
161	North and South Bridge	36 days?	Tue 8/14/07	Fri 9/28/07	
162	Place South Bridge Concrete Slabs L2-L6	12 days?	Tue 8/14/07	Mon 8/27/07	:
163	Place North Bridge Concrete Slabs L4-L6	8 days?	Wed 9/19/07	Fri 9/28/07	₩ :
	Structural Steel		Mon 10/23/06	Fri 9/28/07	→ :
165	Erect Structural Steel Truss L1-L4		Mon 10/23/06	Thu 11/2/06	
166	Erect Steel Beams and Metal Decking- Level 3	1 day?	Mon 3/26/07	Mon 3/26/07	
167	Erect Structural Steel Truss L5-L6	1 day?	Sat 4/7/07	Sat 4/7/07	
168	Erect Steel Beams and Metal Decking- Level 4	1 day?	Mon 4/16/07	Mon 4/16/07	
169	Erect Steel Beams and Metal Decking- Level 5	1 day?	Mon 5/7/07	Mon 5/7/07	
170	Erect Steel Beams and Metal Decking- Level 6	1 day?	Mon 5/28/07	Mon 5/28/07	
172	Erect Structural Steel Truss L7-Penthouse	1 day?	Fri 6/1/07	Fri 6/1/07	」 :
173	Erect South Bridge Steel Structure/ Decking L2-L6	62 days?	Fri 6/8/07	Mon 8/27/07	
171	Erect Steel Beams and Metal Decking- Level 7	1 day?	Mon 6/18/07	Mon 6/18/07	
174	Erect North Bridge Steel Structure/ Decking L4-L6	75 days?	Mon 6/25/07	Fri 9/28/07	
176	Erect Steel Beams and Metal Decking- Level 8	1 day?	Mon 7/2/07	Mon 7/2/07	」 : :
177	Erect Steel Beams and Metal Decking- Level 9	1 day?	Mon 7/30/07	Mon 7/30/07	
178	Erect Penthouse (Seq 1) Structural Steel	8 days?	Tue 8/14/07	Wed 8/22/07	7 ; ;
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175	ID Tas	isk Name	Duration	Start	Finish	2005	2006	2007	2008	2009	2010
175 Frect WL Roof/Skylight Structural Framing (L4) 15 days? Mon 8/20/07 Thu 9/6/07 Thu 9/6/07 Thu 9/6/07 Thu 9/30/07 Fri 8/31/07 Thu 9/32/07 Fri 8/31/07 Thu 9/32/07 Thu 9/3		CON TRAINIC	Baration	O.G.	1 1111311		Q4 Q1 Q2 Q3 Q4	01 02 03 04 0	01 Q2 Q3 Q4	01 02 03 0	
180 Erect Penthouse (Seq 3) Structural Steel 9 days? Fri 8/31/07 Wed 9/12/07 181 Precast Hollowcore Planks/ Concrete Topping 59 days? Fri 6/15/07 Wed 8/29/07 182 Set Precast Planks/ Concrete Topping L3 2 days? Fri 6/15/07 Mon 6/18/07 183 Set Precast Planks/ Concrete Topping L4 2 days? Fri 6/22/07 Mon 6/25/07 184 Set Precast Planks/ Concrete Topping L5 2 days? Sat 7/28/07 Mon 7/30/07 185 Set Precast Planks/ Concrete Topping L6 2 days? Sat 8/4/07 Mon 8/6/07 186 Set Precast Planks/ Concrete Topping L7 2 days? Sat 8/18/07 Mon 8/3/07 187 Set Precast Planks/ Concrete Topping L8 2 days? Sat 8/18/07 Mon 8/20/07 187 Set Precast Planks/ Concrete Topping L8 2 days? Sat 8/18/07 Mon 8/20/07 187 Set Precast Planks/ Concrete Topping L8 2 days? Sat 8/18/07 Mon 8/20/07 188 Set Precast Planks/ Concrete Topping L8 2 days? Sat 8/18/07 Mon 8/20/07 189 Set Precast Planks/ Concrete Topping L8 2 days? Sat 8/18/07 Mon 8/20/07 189 Set Precast Planks/ Concrete Topping L8 2 days? Sat 8/18/07 Mon 8/20/07 189 Set Precast Planks/ Concrete Topping L8 2 days? Sat 8/18/07 Mon 8/20/07 189 Set Precast Planks/ Concrete Topping L8 2 days? Sat 8/18/07 Mon 8/20/07 189 Set Precast Planks/ Concrete Topping L8 2 days? Sat 8/18/07 Mon 8/20/07 189 Set Precast Planks/ Concrete Topping L8 2 days? Sat 8/18/07 Mon 8/20/07	175	Erect WL Roof/Skylight Structural Framing (L4)	15 days?		Thu 9/6/0	7		a a			
181 Precast Hollowcore Planks/ Concrete Topping 59 days? Fri 6/15/07 Wed 8/29/07 182 Set Precast Planks/ Concrete Topping L3 2 days? Fri 6/15/07 Mon 6/18/07 183 Set Precast Planks/ Concrete Topping L4 2 days? Fri 6/22/07 Mon 6/25/07 184 Set Precast Planks/ Concrete Topping L5 2 days? Sat 7/28/07 Mon 7/30/07 185 Set Precast Planks/ Concrete Topping L6 2 days? Sat 8/4/07 Mon 8/6/07 186 Set Precast Planks/ Concrete Topping L7 2 days? Sat 8/11/07 Mon 8/13/07 187 Set Precast Planks/ Concrete Topping L8 2 days? Sat 8/18/07 Mon 8/20/07	179	Erect Penthouse (Seq 2) Structural Steel	8 days?	Thu 8/23/07	Fri 8/31/0	7		ā			
181 Precast Hollowcore Planks/ Concrete Topping 59 days? Fri 6/15/07 Wed 8/29/07 182 Set Precast Planks/ Concrete Topping L3 2 days? Fri 6/15/07 Mon 6/18/07 183 Set Precast Planks/ Concrete Topping L4 2 days? Fri 6/22/07 Mon 6/25/07 184 Set Precast Planks/ Concrete Topping L5 2 days? Sat 7/28/07 Mon 7/30/07 185 Set Precast Planks/ Concrete Topping L6 2 days? Sat 8/4/07 Mon 8/6/07 186 Set Precast Planks/ Concrete Topping L7 2 days? Sat 8/11/07 Mon 8/3/07 187 Set Precast Planks/ Concrete Topping L8 2 days? Sat 8/18/07 Mon 8/20/07 187 Set Precast Planks/ Concrete Topping L8 2 days? Sat 8/18/07 Mon 8/20/07 188 Set Precast Planks/ Concrete Topping L8 2 days? Sat 8/18/07 Mon 8/20/07 189 Set Precast Planks/ Concrete Topping L8 2 days? Sat 8/18/07 Mon 8/20/07 189 Set Precast Planks/ Concrete Topping L8 2 days? Sat 8/18/07 Mon 8/20/07 189 Set Precast Planks/ Concrete Topping L8 Set Precast Planks	180	Erect Penthouse (Seq 3) Structural Steel	9 days?	Fri 8/31/07	Wed 9/12/01	7		ā		:	
183 Set Precast Planks/ Concrete Topping L4 2 days? Fri 6/22/07 Mon 6/25/07 184 Set Precast Planks/ Concrete Topping L5 2 days? Sat 7/28/07 Mon 7/30/07 185 Set Precast Planks/ Concrete Topping L6 2 days? Sat 8/4/07 Mon 8/6/07 186 Set Precast Planks/ Concrete Topping L7 2 days? Sat 8/11/07 Mon 8/13/07 187 Set Precast Planks/ Concrete Topping L8 2 days? Sat 8/18/07 Mon 8/20/07	181 Pr e	ecast Hollowcore Planks/ Concrete Topping	59 days?	Fri 6/15/07	Wed 8/29/07	7					
183 Set Precast Planks/ Concrete Topping L4 2 days? Fri 6/22/07 Mon 6/25/07 184 Set Precast Planks/ Concrete Topping L5 2 days? Sat 7/28/07 Mon 7/30/07 185 Set Precast Planks/ Concrete Topping L6 2 days? Sat 8/4/07 Mon 8/6/07 186 Set Precast Planks/ Concrete Topping L7 2 days? Sat 8/11/07 Mon 8/13/07 187 Set Precast Planks/ Concrete Topping L8 2 days? Sat 8/18/07 Mon 8/20/07	182	Set Precast Planks/ Concrete Topping L3		Fri 6/15/07	Mon 6/18/0	7		i			
184 Set Precast Planks/ Concrete Topping L5 2 days? Sat 7/28/07 Mon 7/30/07 185 Set Precast Planks/ Concrete Topping L6 2 days? Sat 8/4/07 Mon 8/6/07 186 Set Precast Planks/ Concrete Topping L7 2 days? Sat 8/11/07 Mon 8/13/07 187 Set Precast Planks/ Concrete Topping L8 2 days? Sat 8/18/07 Mon 8/20/07	183	Set Precast Planks/ Concrete Topping L4	2 days?	Fri 6/22/07	Mon 6/25/0	7		i i			
186 Set Precast Planks/ Concrete Topping L7 2 days? Sat 8/11/07 Mon 8/13/07 187 Set Precast Planks/ Concrete Topping L8 2 days? Sat 8/18/07 Mon 8/20/07	184	Set Precast Planks/ Concrete Topping L5		Sat 7/28/07	Mon 7/30/0	7		1 1		:	
186 Set Precast Planks/ Concrete Topping L7 2 days? Sat 8/11/07 Mon 8/13/07 187 Set Precast Planks/ Concrete Topping L8 2 days? Sat 8/18/07 Mon 8/20/07	185	Set Precast Planks/ Concrete Topping L6	2 days?	Sat 8/4/07	Mon 8/6/0	7		1		:	
187 Set Precast Planks/ Concrete Topping L8 2 days? Sat 8/18/07 Mon 8/20/07										:	
188 Set Precast Planks/ Concrete Topping L9 4 days? Sat 8/25/07 Wed 8/29/07	187	Set Precast Planks/ Concrete Topping L8		Sat 8/18/07	Mon 8/20/0	7		1			
	188	Set Precast Planks/ Concrete Topping L9	4 days?	Sat 8/25/07	Wed 8/29/0	7		Τ			
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Megan Wortman | Construction Management | Consultant: John Messner



Precast Planks Structural Schedule

ID Task Name	Duration	Start	Finish			2006	2007	2008	2009	2010
4 5	207 1 2	Th. 04705	F - 1 0 10 10 0		Q3 Q4 Q1 C		Q1 Q2 Q3 Q4	1 Q1 Q2 Q3 Q4	1 Q1 Q2 Q3 Q	4 Q1 Q2 Q3
1 Design Phase 2 Schematic Design	387 days?	Thu 3/17/05	Fri 9/8/06 Tue 5/17/05							
	44 days?	Thu 3/17/05		(شفق						
	132 days?	Wed 5/18/05	Thu 11/17/05	hai						
4 50% Construction Documents	1 day?	Tue 1/24/06	Tue 1/24/06		İ					
5 100% Construction Documents	1 day?	Fri 9/8/06	Fri 9/8/06							
6 Project Overview	810 days?	Tue 1/24/06	Mon 2/23/09		Ç					
7 Whiting-Turner Awarded Project	0 days	Tue 1/24/06	Tue 1/24/06			niting-Turn	er Awarded Proje	ect		
8 Subcontractor Bid/ Awards	69 days?	Thu 6/8/06	Tue 9/12/06			Galance				
9 Building Construction Begins/ Final GMP Execute		Fri 9/22/06	Fri 9/22/06			- ⊕ Bı	uilding Construc	tion Begins/ Final	GMP Executed	
10 Final Building Commissioning and Punch List	1 day	Mon 2/16/09	Mon 2/16/09							
11 Project Substantial Completion	0 days	Mon 2/23/09	Mon 2/23/09						Project Su	bstantial Co
12 Demolition and Sitework	240 days?	Mon 7/10/06	Thu 6/7/07			Q				
13 Utilites Relocation	20 days?	Mon 7/10/06	Fri 8/4/06			۵				
14 Demolition / Excavation for New Tower	40 days?	Mon 7/31/06	Fri 9/22/06			Essa				
16 Drilling Helical Piers at Existing Structure	15 days?	Mon 9/25/06	Fri 10/13/06			ē				
15 Demolition / Excavation for New Bridges	29 days?	Mon 4/30/07	Thu 6/7/07				<u></u>			
17 Drilling Helical Piers at Proposed Bridges	5 days?	Fri 5/11/07	Thu 5/17/07				V			
18 Foundation	175 days?	Mon 9/25/06	Thu 5/24/07				Marian Salah			
19 FRP Footings at Column M	7 days?	Mon 9/25/06	Tue 10/3/06			ď	~			
30 West Lobby FRP Footings	33 days?	Mon 10/2/06	Wed 11/15/06			ā				
31 FRP Truss Footings	10 days?	Mon 10/2/06	Fri 10/13/06			ū				
20 T1 FRP Footings	59 days?	Tue 10/3/06	Fri 12/22/06			C.L.	1			
27 FRP T1 Shaftwall Footings	6 days?					<u>6</u>	'			
29 Electrical Room FRP Footings	4 days?					Ť				
23 T2 FRP Foundation Wall Footings	4 days?	Thu 11/16/06	Tue 11/21/06			*				
28 FRP T3 Shaftwall Footings	6 days	Fri 11/24/06	Fri 12/1/06			<u> </u>				
24 T3 FRP Foundation Walls		Wed 12/20/06				2 7	5			
25 T3 FRP Foundation Wall Footings	3 days?	Wed 12/20/06	Fri 12/22/06							
21 T2 FRP Footings	5 days?	Fri 12/22/06	Thu 12/28/06				। स			
22 T3 FRP Footings	13 days?	Fri 12/29/06	Tue 1/16/07			!	N.			
26 Grade Beams and Pier Caps for Bridges	5 days?	Fri 5/18/07	Thu 5/24/07				₩ +			
32 Cast-in-Place Concrete Structure	264 days?	Wed 10/4/06	Fri 9/28/07			**				
33 Lower Level			Fri 1/19/07			~	***			
	78 days?	Wed 10/4/06				⊘				
	60 days?	Wed 10/4/06	Tue 12/26/06)			
46 West Lobby FRP Shaftwall LL-L1	34 days?	Mon 10/16/06	Thu 11/30/06							
44 West Lobby FRP SOG (LL)	29 days?	Tue 10/31/06	Fri 12/8/06			្ន				
36 T1 FRP Electrical Room / Loading Dock Wa		Mon 11/6/06	Tue 11/21/06			Ō				
45 West Lobby FRP Column LL-L1	6 days?	Mon 11/13/06	Mon 11/20/06			Ď				
35 T1 FRP Shaftwall LL-L1	22 days?	Thu 11/16/06	Fri 12/15/06			6.3				
42 T3 FRP Shaftwall LL-L1	6 days?	Mon 12/11/06	Mon 12/18/06			Q	<u></u> .			
37 T1 FRP SOG (LL)	4 days?		Wed 12/27/06			Ī	Ī			
38 T1 FRP SOG (Electrical Room)	4 days?		Wed 12/27/06			Ţ	Ĭ			
39 T2 FRP Columns LL-L1	6 days?	Fri 12/22/06	Fri 12/29/06			į	Ģ			
40 T2 FRP SOG (LL)	2 days?	Tue 1/2/07	Wed 1/3/07				-			
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63 WL FRP Shaftwall (L2) 11 days 66 T2 FRP Concrete Slab (L2) 32 days 67 T3 FRP Concrete Slab (L2) 11 days 64 T1 FRP Columns (L2) 4 days 65 T1 FRP Shaftwall (L2) 14 days 68 T2 FRP Columns (L2) 2 days 70 T3 FRP Columns (L2) 7 days 70 T3 FRP Shaftwall (L2) 6 days 71 Level 3 33 days 72 WL FRP Concrete Slab (L3) 13 days 73 T1 FRP Concrete Slab (L3) 14 days 78 T2 FRP Concrete Slab (L3) 12 days 74 WL FRP Columns (L3) 3 days 75 WL FRP Shaftwall (L3) 9 days 79 T3 FRP Concrete Slab (L3) 9 days 76 T1 FRP Columns (L3) 2 days	 Mon 1/29/07 Fri 2/2/07 Fri 2/9/07 Mon 2/12/07 Mon 2/12/07 Tue 2/20/07 Thu 2/22/07 	Mon 2/12/07 Mon 3/19/07 Fri 2/23/07 Thu 2/15/07 Thu 3/1/07 Wed 2/21/07 Fri 3/2/07			0 0 0
63 WL FRP Shaftwall (L2) 11 days 66 T2 FRP Concrete Slab (L2) 32 days 67 T3 FRP Concrete Slab (L2) 11 days 64 T1 FRP Columns (L2) 4 days 65 T1 FRP Shaftwall (L2) 14 days 68 T2 FRP Columns (L2) 2 days 70 T3 FRP Columns (L2) 7 days 70 T3 FRP Shaftwall (L2) 6 days 71 Level 3 33 days 72 WL FRP Concrete Slab (L3) 13 days 73 T1 FRP Concrete Slab (L3) 14 days 78 T2 FRP Concrete Slab (L3) 12 days 74 WL FRP Columns (L3) 3 days 75 WL FRP Shaftwall (L3) 9 days 79 T3 FRP Concrete Slab (L3) 9 days 76 T1 FRP Columns (L3) 2 days	? Fri 2/2/07 ? Fri 2/9/07 ? Mon 2/12/07 ? Mon 2/12/07 ? Tue 2/20/07 ? Thu 2/22/07	Mon 3/19/07 Fri 2/23/07 Thu 2/15/07 Thu 3/1/07 Wed 2/21/07 Fri 3/2/07			
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64 T1 FRP Columns (L2) 4 days 65 T1 FRP Shaftwall (L2) 14 days 68 T2 FRP Columns (L2) 2 days 69 T3 FRP Columns (L2) 7 days 70 T3 FRP Shaftwall (L2) 6 days 71 Level 3 33 days 72 WL FRP Concrete Slab(L3) 13 days 73 T1 FRP Concrete Slab (L3) 14 days 78 T2 FRP Concrete Slab (L3) 12 days 74 WL FRP Columns (L3) 3 days 75 WL FRP Shaftwall (L3) 9 days 79 T3 FRP Concrete Slab (L3) 9 days 76 T1 FRP Columns (L3) 2 days	 Mon 2/12/07 Mon 2/12/07 Tue 2/20/07 Thu 2/22/07 	Thu 2/15/07 Thu 3/1/07 Wed 2/21/07 Fri 3/2/07			
65 T1 FRP Shaftwall (L2) 14 days 68 T2 FRP Columns (L2) 2 days 69 T3 FRP Columns (L2) 7 days 70 T3 FRP Shaftwall (L2) 6 days 71 Level 3 33 days 72 WL FRP Concrete Slab (L3) 13 days 73 T1 FRP Concrete Slab (L3) 14 days 78 T2 FRP Concrete Slab (L3) 12 days 74 WL FRP Columns (L3) 3 days 75 WL FRP Shaftwall (L3) 9 days 79 T3 FRP Concrete Slab (L3) 9 days 76 T1 FRP Columns (L3) 2 days	? Mon 2/12/07 ? Tue 2/20/07 ? Thu 2/22/07	Thu 3/1/07 Wed 2/21/07 Fri 3/2/07			
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69 T3 FRP Columns (L2) 7 days 70 T3 FRP Shaftwall (L2) 6 days 71 Level 3 33 days 72 WL FRP Concrete Slab(L3) 13 days 73 T1 FRP Concrete Slab (L3) 14 days 78 T2 FRP Concrete Slab (L3) 12 days 74 WL FRP Columns (L3) 3 days 75 WL FRP Shaftwall (L3) 9 days 79 T3 FRP Concrete Slab (L3) 9 days 76 T1 FRP Columns (L3) 2 days	? Thu 2/22/07	Fri 3/2/07			هُ ا
70 T3 FRP Shaftwall (L2) 6 days 71 Level 3 33 days 72 WL FRP Concrete Slab(L3) 13 days 73 T1 FRP Concrete Slab (L3) 14 days 78 T2 FRP Concrete Slab (L3) 12 days 74 WL FRP Columns (L3) 3 days 75 WL FRP Shaftwall (L3) 9 days 79 T3 FRP Concrete Slab (L3) 9 days 76 T1 FRP Columns (L3) 2 days					, in the second
71 Level 3 33 days 72 WL FRP Concrete Slab (L3) 13 days 73 T1 FRP Concrete Slab (L3) 14 days 78 T2 FRP Concrete Slab (L3) 12 days 74 WL FRP Columns (L3) 3 days 75 WL FRP Shaftwall (L3) 9 days 79 T3 FRP Concrete Slab (L3) 9 days 76 T1 FRP Columns (L3) 2 days	· w	\Med 3/14/07			<u>.</u>
72 WL FRP Concrete Slab(L3) 13 days 73 T1 FRP Concrete Slab (L3) 14 days 78 T2 FRP Concrete Slab (L3) 12 days 74 WL FRP Columns (L3) 3 days 75 WL FRP Shaffwall (L3) 9 days 79 T3 FRP Concrete Slab (L3) 9 days 76 T1 FRP Columns (L3) 2 days	? Wed 3/7/07	9 V C G 3/ 14/0/			<u>*</u> T
73 T1 FRP Concrete Slab (L3) 14 days 78 T2 FRP Concrete Slab (L3) 12 days 74 WL FRP Columns (L3) 3 days 75 WL FRP Shaffwall (L3) 9 days 79 T3 FRP Concrete Slab (L3) 9 days 76 T1 FRP Columns (L3) 2 days	7 Tue 2/13/07	Thu 3/29/07			® ®
78 T2 FRP Concrete Slab (L3) 12 days 74 WL FRP Columns (L3) 3 days 75 WL FRP Shaftwall (L3) 9 days 79 T3 FRP Concrete Slab (L3) 9 days 76 T1 FRP Columns (L3) 2 days	? Tue 2/13/07	Thu 3/1/07			۵
74 WL FRP Columns (L3) 3 days 75 WL FRP Shaftwall (L3) 9 days 79 T3 FRP Concrete Slab (L3) 9 days 76 T1 FRP Columns (L3) 2 days	? Mon 2/19/07	Thu 3/8/07			Ã
75 WL FRP Shaffwall (L3) 9 days 79 T3 FRP Concrete Slab (L3) 9 days 76 T1 FRP Columns (L3) 2 days	? Fri 2/23/07	Mon 3/12/07			ล็
79 T3 FRP Concrete Slab (L3) 9 days 76 T1 FRP Columns (L3) 2 days	? Mon 3/5/07	Wed 3/7/07			
76 T1 FRP Columns (L3) 2 days	? Tue 3/6/07	Fri 3/16/07			Ī
76 T1 FRP Columns (L3) 2 days 77 T1 FRP Shoftwall (L3) 8 days	? Thu 3/8/07	Tue 3/20/07			į
77 T1 EPD Shaftwall (1.3) 8 days	? Fri 3/9/07	Mon 3/12/07			
	? Wed 3/14/07	Fri 3/23/07			· B
80 T2 FRP Columns (L3) 2 days					
81 T3 FRP Columns (L3) 7 days					Ī
82 T3 FRP Shaftwall (L3) 7 days					Q
83 Mechanical Room Area (L3) 1 day	? Tue 3/27/07	Tue 3/27/07			
84 Level 4 27 days					® ♥
86 T1 FRP Concrete Slab (L4) 10 days					Ō
85 WL FRP Concrete Slab(L4) 8 days					Ī
91 T2 FRP Concrete Slab (L4) 6 days					Ţ
92 T3 FRP Concrete Slab (L4) 10 days	? Thu 3/29/07	Tue 4/10/07			Ī
Task 7///////////////	Milesto	ne 🐵		External Tasks	
Project: Project Schedule using Precest	and the same of th	-			**************************************
Date: Thu 3/27/08 Split	Summa	ry 🐃		External Milestone	: * # P
Progress	Project	Summary <table-cell-rows></table-cell-rows>		Deadline	❖
		Page 2	<u> </u>		



ID	Task Name	Duration	Start	Finish	2005 2006 2007 2008 2009 2010 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3
87	WL FRP Columns (L4)	2 days?	Frì 3/30/07	Mon 4/2/07	G4 G1 G2 G3 G4 G1 G2 G3 G4 G1 G2 G3
88	WL FRP Shaftwall (L4)	4 days?	Mon 4/2/07	Thu 4/5/07	i i
89	T1 FRP Columns (L4)	5 days?	Mon 4/2/07	Fri 4/6/07	
90	T1 FRP Shaftwall (L4)	7 days?	Mon 4/2/07	Mon 4/9/07	ă
93	T2 FRP Columns (L4)	3 days?	Fri 4/6/07	Mon 4/9/07	i
94	T3 FRP Columns (L4)	8 days?	Wed 4/11/07	Fri 4/20/07	Ī
95	T3 FRP Shaftwall (L4)	7 days?	Fri 4/13/07	Mon 4/23/07	Ď I
96	Mechanical Room Area (L4)	1 day?	Tue 4/17/07	Tue 4/17/07	
97	Level 5	22 days?	Mon 4/9/07	Tue 5/8/07	© ♥
98	WL FRP Concrete Slab(L5)	5 days?	Mon 4/9/07	Fri 4/13/07	Ī
99	T1 FRP Concrete Slab (L5)	8 days?	Tue 4/10/07	Thu 4/19/07	g .
100	T2 FRP Concrete Slab (L5)	10 days?	Wed 4/11/07	Tue 4/24/07	Ō
101	WL FRP Columns (L5)	5 days?	Mon 4/16/07	Fri 4/20/07	Ţ
102	WL FRP Shaftwall (L5)	5 days?	Mon 4/16/07	Fri 4/20/07	₩ .
103	T3 FRP Concrete Slab (L5)	10 days?	Wed 4/18/07	Tue 5/1/07) I
104	T1 FRP Columns (L5)	3 days?	Mon 4/23/07	Wed 4/25/07	
105	T1 FRP Shaftwall (L5)	3 days?	Mon 4/23/07	Wed 4/25/07	
106	T2 FRP Columns (L5)	3 days?	Wed 5/2/07	Fri 5/4/07	
107	T3 FRP Columns (L5)	4 days?	Wed 5/2/07	Mon 5/7/07	I
108	T3 FRP Shaftwall (L5)	3 days?	Thu 5/3/07	Mon 5/7/07	
109	Mechanical Room Area (L5)	1 day?	Tue 5/8/07	Tue 5/8/07	<u>-i</u>
110	Level 6	29 days?	Mon 4/23/07	Thu 5/31/07	₫ ®
111	WL FRP Concrete Slab(L6)	6 days?	Mon 4/23/07	Mon 4/30/07	0
112	T1 FRP Concrete Slab (L6)	8 days?	Tue 5/1/07	Thu 5/10/07	¥
114 115	WL FRP Columns (L6) WL FRP Shaftwall (L6)	4 days?	Tue 5/1/07 Tue 5/1/07	Fri 5/4/07 Fri 5/4/07	
113	T2 FRP Concrete Slab (L6)	4 days? 9 days?	Thu 5/3/07	Tue 5/15/07	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
116	T3 FRP Concrete Slab (L6)	9 days?	Wed 5/9/07	Mon 5/21/07	d A
117	T1 FRP Columns (L6)	5 days?	Mon 5/14/07	Fri 5/18/07	₩.
118	T1 FRP Shaftwall (L6)	5 days?	Mon 5/14/07	Fri 5/18/07	
119	T2 FRP Columns (L6)	2 days?	Frì 5/18/07	Mon 5/21/07	<u> </u>
120	T3 FRP Columns (L6)	7 days?	Tue 5/22/07	Wed 5/30/07	
121	T3 FRP Shaftwall (L6)	8 days?	Tue 5/22/07	Thu 5/31/07	A I
122	Mechanical Room Area (L6)	1 day?	Mon 5/28/07	Mon 5/28/07	*
123	Level 7	34 days?	Mon 5/7/07	Thu 6/21/07	5/5
124	WL FRP Concrete Slab(L7)	5 days?	Mon 5/7/07	Fri 5/11/07	
127	WL FRP Columns (L7)	2 days?	Mon 5/14/07	Tue 5/15/07	<u>'</u>
128	WL FRP Shaftwall (L7)	5 days?	Mon 5/14/07	Fri 5/18/07	
125	T1 FRP Concrete Slab (L7)	11 days?	Mon 5/21/07	Mon 6/4/07	'a
126	T2 FRP Concrete Slab (L7)	10 days?	Tue 5/22/07	Mon 6/4/07	i i
129	T3 FRP Concrete Slab (L7)	11 days?	Tue 5/29/07	Tue 6/12/07	[
130	T1 FRP Columns (L7)	1 day?	Mon 6/11/07	Mon 6/11/07	
131	T1 FRP Shaftwall (L7)	2 days?	Mon 6/11/07	Tue 6/12/07	
132	T2 FRP Columns (L7)	1 day?	Mon 6/11/07	Mon 6/11/07]
133	T3 FRP Columns (L7)	4 days?	Mon 6/18/07	Thu 6/21/07	
	Task		Mileston	е 🔷	External Tasks
Proje	act: Project Schedule using Precest	*****		-	*************************************
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ID	Task Name	Duration	Start	Finish	2005 2006		2007	2008	2009	2010
134	T3 FRP Shaftwall (L7)	3 days?	Mon 6/18/07	Wed 6/20/07	Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q	<u> 23 Q4 Q1 Q.</u>	2 Q3 Q4 Q	1 Q2 Q3 Q4	Q1 Q2 Q3 C	24 Q1 Q2 Q3
135	Mechanical Room Area (L7)	1 day?		Tue 6/19/07						
136	Level 8	37 days?		Tue 7/10/07		Œ.	X			
137	WL FRP Concrete Slab(L8)	5 days?		Fri 5/25/07		(<u>4</u>	9 (9)			
140	WL FRP Columns (L8)	9 days?		Fri 6/8/07		•	ň			
141	WL FRP Shaftwall (L8)	6 days?		Fri 6/8/07			T			
138	T1 FRP Concrete Slab (L8)	8 days?		Fri 6/22/07			ř			
139	T2 FRP Concrete Slab (L8)	6 days?	Fri 6/15/07	Fri 6/22/07			ř			
142	T3 FRP Concrete Slab (L8)	9 days?		Fri 6/29/07			9 10			
143	T1 FRP Columns (L8)	7 days?		Mon 7/2/07			3			
144	T1 FRP Shaftwall (L8)	7 days?	Fri 6/22/07	Mon 7/2/07			3			
145	T2 FRP Columns (L8)	4 days?		Mon 7/2/07			ň			
146	T3 FRP Columns (L8)	3 days?		Thu 7/5/07			X I			
147	T3 FRP Shaftwall (L8)	4 days?		Tue 7/10/07			Ť			
148	Mechanical Room Area (L8)	1 day?	Fri 7/6/07	Fri 7/6/07			*			
149	Level 9	38 days?		Fri 7/27/07		ŕ	₹@)			
155	T3 FRP Shaftwall EL. 160 to			Tue 7/10/07			9 9			
156	WLFRP Concrete Slab (L9)	15 days?		Fri 6/29/07			G .			
150	T1 FRP Concrete Slab (L9)	9 days?		Fri 7/13/07			T .			
153	T2 FRP Concrete Slab (L9)	9 days?		Fri 7/13/07			T V			
154	T3 FRP Concrete Slab (L9)	11 days?		Fri 7/20/07			v G			
151	T1 FRP Shaftwall EL. 160 to			Thu 7/26/07			č			
152	Concrete Topping Out	0 days		Thu 7/26/07			💩 Concret	e Topping Out		
157	Mechanical Room Area (L9)	1 day?		Fri 7/27/07			•			
158	Elevator Machine Rooms	26 days?		Fri 8/10/07			@			
160	FRP Elev. 13/14 Mach. Rm.	26 days?		Fri 8/10/07			62			
159	FRP Elev. 17/18 Mach. Rm.	8 days?		Tue 8/7/07			<u> </u>			
161	North and South Bridge	36 days?	Tue 8/14/07	Fri 9/28/07			® ®			
162	Place South Bridge Concrete			Mon 8/27/07			Ē.			
163	Place North Bridge Concrete		Wed 9/19/07	Fri 9/28/07			ě			
164	Structural Steel	251 days?		Fri 9/28/07						
165	Erect Structural Steel Truss L1-L4			Thu 11/2/06		ň	•			
166	Erect Steel Beams and Metal Dec	king-Level 3 1 day?	Mon 3/26/07	Mon 3/26/07						
167	Erect Structural Steel Truss L5-L6			Sat 4/7/07		'n				
168	Erect Steel Beams and Metal Dec	king- Level 4 1 day?	Mon 4/16/07	Mon 4/16/07		i i				
169	Erect Steel Beams and Metal Dec	king- Level 5 1 day?	Mon 5/7/07	Mon 5/7/07		'				
170	Erect Steel Beams and Metal Dec	king- Level 6 1 day?	Mon 5/28/07	Mon 5/28/07						
172	Erect Structural Steel Truss L7-Pe	nthouse 1 day?	Frì 6/1/07	Fri 6/1/07						
173	Erect South Bridge Steel Structure	e/ Decking L2-L6 62 days?	Fri 6/8/07	Mon 8/27/07			(ciaigiais			
171	Erect Steel Beams and Metal Dec	king- Level 7 1 day?		Mon 6/18/07						
174	Erect North Bridge Steel Structure			Fri 9/28/07			(äääää			
176	Erect Steel Beams and Metal Dec			Mon 7/2/07			!			
177	Erect Steel Beams and Metal Dec			Mon 7/30/07			1			
178]	Erect Penthouse (Seq 1) Structura	al Steel 8 days?	Tue 8/14/07	Wed 8/22/07			<u>₽</u>			
		Task	Mileston	e 🔷	External Tasi	ks (
	ect: Project Schedule using Precast :: Thu 3/27/08	Split	~~~		External Mile	230000000000000000000000000000000000000	**************************************			
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176	Task Name		Duration	Start	Finish	04.04.6	2005	200	02 04	200	2 04 0	2008	2009 I Q1 Q2 Q3	04 04 02	2010
	Erect WL Roof/Skylight Structur	ral Framing (L4)	15 days?	Mon 8/20/07	Thu 9/6/07		JZ U.S U.4	Q QZ	Q3 Q4	Q1 Q2 C	<u>23 Q4 Q</u>	1 Q2 Q3 Q4	HQTIQZ QST	Q4 Q Q2	2 Q3
179	Erect Penthouse (Seg 2) Structu	ural Steel	8 days?	Thu 8/23/07	Fri 8/31/07						<u>ਹ</u> ਨ				
180	Erect Penthouse (Seq 3) Structu		9 days?	Fri 8/31/07	Wed 9/12/07						<u>a</u>				
	Precast Hollowcore Planks/ Concr		59 days?	Fri 6/15/07	Wed 8/29/07										
182	Set Precast Planks/ Concrete T		2 days?	Fri 6/15/07	Mon 6/18/07					-					
183	Set Precast Planks/ Concrete T		2 days?	Fri 6/22/07	Mon 6/25/07					3					
184	Set Precast Planks/ Concrete T		2 days?	Sat 7/28/07	Mon 7/30/07										
185	Set Precast Planks/ Concrete T		2 days?	Sat 8/4/07	Mon 8/6/07										
185	Set Precast Planks/ Concrete T		2 days?	Sat 8/11/07	Mon 8/13/07						i _:				
187	Set Precast Planks/ Concrete T		2 days?	Sat 8/18/07	Mon 8/20/07						1				
188	Set Precast Planks/ Concrete T		4 days?	Sat 8/25/07	Wed 8/29/07						Ι Χ				
100	Get Precast Planks/ Concrete	орринд сэ	4 uays :	Sat 6/23/07	weu 0/25/0/	<i>r</i>					Ų.		i		
		Task		Milaston	a 🗪		E	sytemel To	ske	(13					
Prois	ect: Project Schedule using Precasi	Task	Оппальный придаменный		•			external Ta		Charles and the control of the contr	· · · · · · · · · · · · · · · · · · ·				
Proje Date	ect: Project Schedule using Precasi : Thu 3/27/08	Task Split Progress		Summan	у 🔯			external Ta external Mi Deadline	lestone		***************************************				



APPENDIX F: LIFE CYCLE COST CALCULATIONS FOR **EIFS AND GFRC**

Table 24: Life Cycle Cost of EIFS

Life Cycle Cost of EIFS					
	Quantity	Unit	Unit Cost	Total Cost	
Initial Cost of System	45690	sf	14.67	\$670,272	
Description of Maintenance					
Cleaning	45690	sf	\$0.30	\$13,707	
Re-coat Panels	45690	sf	\$2.00	\$91,380	
Replace Joint Sealant	12000	lf	\$2.50	\$30,000	

Table 25: Life Cycle Cost of GFRC

tuble 20. Ellie Oyele Cost of GIRO				
Life Cycle Cost of GFRC				
	Quantity	Unit	Unit Cost	Total Cost
Initial Cost of System	45690	sf	48.78	\$2,228,758
Description of Maintenance				
Cleaning	45690	sf	\$0.72	\$32,897
Replace Joint Sealant	12000	lf	\$2.50	\$30,000



APPENDIX G: FAÇADE SCHEDULE DURATIONS

Table 26: GFRC Schedule Durations Estimate

GFRC Schedule Durations Estimate					
Area	Façade sq. ft.	Avg. sf. / piece	# GFRC Panels	Avg. # Panels /Day	Duration (Days)
Tower North Face	9427	150	63	15	4
West Lobby North Face	3328	150	22	15	1
Tower East Face	7450	150	50	15	3
Tower West Face	10860	150	72	15	5
Tower South Face /South Bridge	4725	150	32	15	2
West Lobby South Face	6490	150	43	15	3
North Bridge	3410	150	23	15	2
Total Duration (Days): 20					20

Table 27: Façade Window Schedule Durations

Window Schedule Durations		
Area	Duration (Days)	
Tower North Face	11	
West Lobby North Face	1	
Tower East Face	14	
Tower West Face	13	
Tower South Face /South Bridge	4	
West Lobby South Face	2	
North Bridge	6	



Table 28: EIFS Total Schedule Durations

EIFS Total Schedule Durations			
Area	Duration (Days)		
Metal Studs (All Faces)	50		
EIFS	65		
Total EIFS plus Windows	72		
Extra Time for Windows L1-L8			
After EIFS Finished	7		
Total Duration (Days):	122		

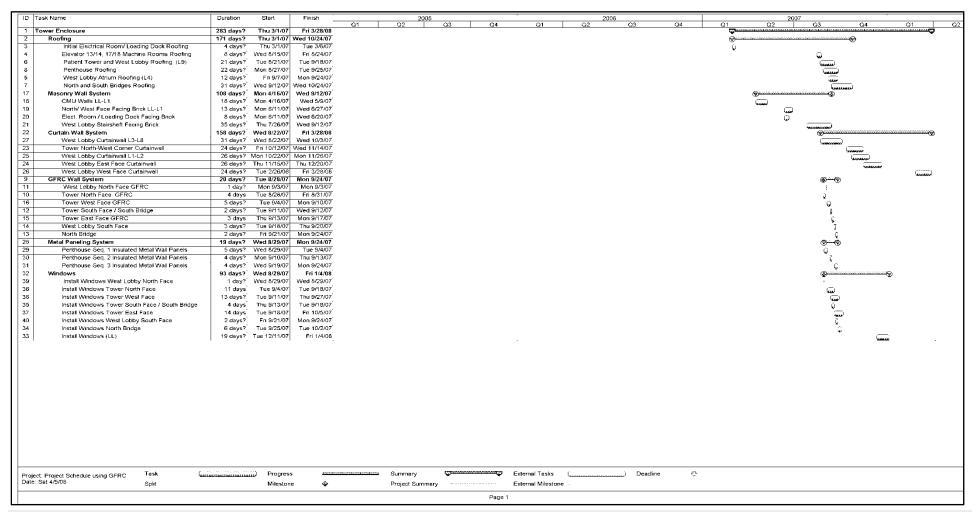
Table 29: GFRC Total Schedule Durations

GFRC Total Schedule Durations			
Area	Duration (Days)		
GFRC	20		
Total GFRC plus Windows	29		
Extra Time for Windows After			
GFRC Finished	9		
Total Duration (Days) :	29		

Megan Wortman Construction Management Consultant: John Messner



APPENDIX H: FAÇADE SYSTEMS SCHEDULES **GFRC Facade Schedule**



Megan Wortman Construction Management Consultant: John Messner



EIFS Facade Schedule

