

# Technical Assignment #2



**Greg Kemerer**  
**Construction Management Option**  
**New Geneva Middle School**  
**Geneva, IL**  
**Messner**

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### **Executive Summary**

This technical assignment includes several estimates, a site plan for the steel erection phase of construction, and a detailed project schedule. The estimates include:

- General Conditions Estimate
- Assemblies Estimate of Plumbing System
- Detailed Structural Estimate of Building B

The site plan details crane placement and material staging areas, as well as traffic flow, location of existing utility lines, trailer locations, and parking locations. The detailed project schedule breaks down the construction of the new middle school by building and by phase. Phases are broken down to foundation work, superstructure/enclosure, and interior development.



**General Conditions Estimate**

Item #	Description	Unit	Quantity	Total Cost (Matl., Labor, Equip.)	Total O/P	TOTAL
1	Insurance	Proj.	1		0.35%	\$ 94,727.50
2	Bonding	Proj.	1		0.50%	\$ 135,325.00
3	Trailer (50' x 12')	Month	48	\$ 286.00	\$ 315.00	\$ 15,120.00
4	Power	Month	48	\$ 65.00	\$ 71.50	\$ 3,432.00
5	Toilet	Month	48	\$ 82.80	\$ 92.00	\$ 4,416.00
6	Office Supplies	Month	48	\$ 85.00	\$ 93.50	\$ 4,488.00
7	Phone/Internet	Month	48	\$ 204.00	\$ 224.00	\$ 10,752.00
8	Field Office Expense	Month	48	\$ 143.00	\$ 157.00	\$ 7,536.00
9	Temp Fencing (6' Chain Link)	LF	1075	\$ 5.90	\$ 7.15	\$ 7,686.25
10	200 Ton Crane, 100' Boom	Month	1		\$21,000.00	\$ 21,000.00
11	Crane Crew	Day	20		\$ 2,188.00	\$ 43,760.00
12	Project Manager	Week	48	\$ 1,625.00	\$ 2,525.00	\$ 121,200.00
13	Field Engineer	Week	48	\$ 995.00	\$ 1,550.00	\$ 74,400.00
14	Superintendent	Week	48	\$ 1,500.00	\$ 2,325.00	\$ 111,600.00
15	Assistant Superintendent	Week	48	\$ 1,375.00	\$ 2,150.00	\$ 103,200.00
16	Laborer	Week	36	\$ 1,050.00	\$ 1,625.00	\$ 58,500.00
17	Dumpster	Each	300		\$ 275.00	\$ 82,500.00
18	Aerial Photos (6 per pass)	Month	11	\$ 690.00	\$ 760.00	\$ 8,360.00

**Utility Fees\***

19	Nicor	Each	1		\$30,000.00	\$ 30,000.00
20	Geneva Power	Each	1		\$80,000.00	\$ 80,000.00
21	SBC	Each	1		\$30,000.00	\$ 30,000.00
22	Comcast	Each	1		\$ 5,000.00	\$ 5,000.00
23	Geneva Water	Each	1		\$25,000.00	\$ 25,000.00
24	Storm Water	Each	1		\$ 5,000.00	\$ 5,000.00

**\$ 1,083,002.75**

\*Utility Fees from general budget summary submitted to owner 8/10/2004 by Bovis Lend Lease

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## Plumbing Assembly Estimate

Item #	CSI Uniformat II	Quantity	Description	Unit	UNIT COSTS			TOTAL COSTS		
					Mat.	Lab.	TTL	Mat.	Lab.	TTL
1	D 2010	96	Water Closets	Ea.	\$ 800.00	\$ 520.00	\$ 1,320.00	\$ 76,800.00	\$ 49,920.00	\$ 126,720.00
2	D 2010	20	Urinals	Ea.	\$ 730.00	\$ 700.00	\$ 1,430.00	\$ 14,600.00	\$ 14,000.00	\$ 28,600.00
3	D 2010	93	Sinks	Ea.	\$ 610.00	\$ 580.00	\$ 1,190.00	\$ 56,730.00	\$ 53,940.00	\$ 110,670.00
4	D 2010	5	Mop Basins	Ea.	\$ 1,125.00	\$ 605.00	\$ 1,730.00	\$ 5,625.00	\$ 3,025.00	\$ 8,650.00
5	D 2010	14	Showers	Ea.	\$ 890.00	\$ 870.00	\$ 1,760.00	\$ 12,460.00	\$ 12,180.00	\$ 24,640.00
6	D 2010	12	Water Fountains	Ea.	\$ 1,000.00	\$ 455.00	\$ 1,455.00	\$ 12,000.00	\$ 5,460.00	\$ 17,460.00
7	D 2010	2	Cent. Pumps	Ea.	\$ 1,500.00	\$ 240.00	\$ 1,740.00	\$ 3,000.00	\$ 480.00	\$ 3,480.00
8	D 2010	2	Water Heaters	Ea.	\$10,000.00	\$2,600.00	\$12,600.00	\$ 20,000.00	\$ 5,200.00	\$ 25,200.00
9	D 2010	56	Lab Sinks	Ea.	\$ 380.00	\$ 660.00	\$ 1,040.00	\$ 21,280.00	\$ 36,960.00	\$ 58,240.00
10	D 2010	1	Water Softening Sys.	Ea.	\$25,000.00	\$2,400.00	\$27,400.00	\$ 25,000.00	\$ 2,400.00	\$ 27,400.00
11	D 2010	114	Roof Drains	Ea.	\$ 200.00	\$ 180.00	\$ 380.00	\$ 22,800.00	\$ 20,520.00	\$ 43,320.00
12	D 2010	48	Floor Drains	Ea.	\$ 125.00	\$ 120.00	\$ 245.00	\$ 6,000.00	\$ 5,760.00	\$ 11,760.00
13	D 2020	3600	3/4" Copper Pipe	L.F.	\$ 3.32	\$ 6.65	\$ 9.97	\$ 11,952.00	\$ 23,940.00	\$ 35,892.00
14	D 2020	2800	1" Copper Pipe	L.F.	\$ 4.37	\$ 7.45	\$ 11.82	\$ 12,236.00	\$ 20,860.00	\$ 33,096.00
15	D 2020	1100	1 1/4" Copper Pipe	L.F.	\$ 5.40	\$ 8.75	\$ 14.15	\$ 5,940.00	\$ 9,625.00	\$ 15,565.00
16	D 2020	1210	1 1/2" Copper Pipe	L.F.	\$ 7.15	\$ 9.80	\$ 16.95	\$ 8,651.50	\$ 11,858.00	\$ 20,509.50
17	D 2020	1230	2" Copper Pipe	L.F.	\$ 10.95	\$ 12.30	\$ 23.25	\$ 13,468.50	\$ 15,129.00	\$ 28,597.50
18	D 2020	980	2 1/2" Galvanized Pipe	L.F.	\$ 7.70	\$ 17.70	\$ 25.40	\$ 7,546.00	\$ 17,346.00	\$ 24,892.00
19	D 2020	750	3" Galvanized Pipe	L.F.	\$ 9.95	\$ 20.50	\$ 30.45	\$ 7,462.50	\$ 15,375.00	\$ 22,837.50
20	D 2020	150	4" Galvanized Pipe	L.F.	\$ 15.65	\$ 24.50	\$ 40.15	\$ 2,347.50	\$ 3,675.00	\$ 6,022.50
21	D 2020	20	6" Galvanized Pipe	L.F.	\$ 36.00	\$ 44.50	\$ 80.50	\$ 720.00	\$ 890.00	\$ 1,610.00
22	D 2030	1940	2" Cast Iron Pipe	L.F.	\$ 5.10	\$ 14.05	\$ 19.15	\$ 9,894.00	\$ 27,257.00	\$ 37,151.00
23	D 2030	320	3" Cast Iron Pipe	L.F.	\$ 6.95	\$ 14.75	\$ 21.70	\$ 2,224.00	\$ 4,720.00	\$ 6,944.00
24	D 2030	5980	4" Cast Iron Pipe	L.F.	\$ 8.95	\$ 16.10	\$ 25.05	\$ 53,521.00	\$ 96,278.00	\$ 149,799.00
25	D 2030	3130	6" Cast Iron Pipe	L.F.	\$ 15.15	\$ 18.85	\$ 34.00	\$ 47,419.50	\$ 59,000.50	\$ 106,420.00

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26	D 2030	1200	8" Cast Iron Pipe	L.F.	\$ 23.50	\$ 31.50	\$ 55.00	\$ 28,200.00	\$ 37,800.00	\$ 66,000.00
27	D 2030	1120	10" Cast Iron Pipe	L.F.	\$ 43.00	\$ 34.50	\$ 77.50	\$ 48,160.00	\$ 38,640.00	\$ 86,800.00
28	D 2050	1	3" Duplex Ejector	Ea.	\$ 7,500.00	\$ 960.00	\$ 8,460.00	\$ 7,500.00	\$ 960.00	\$ 8,460.00
29	D 2050	1	1 1/2" Simplex Ejector	Ea.	\$ 500.00	\$ 240.00	\$ 740.00	\$ 500.00	\$ 240.00	\$ 740.00
30	D 2050	1	4" Duplex Pump	Ea.	\$ 8,500.00	\$ 960.00	\$ 9,460.00	\$ 8,500.00	\$ 960.00	\$ 9,460.00
31	D 2050	1	Grease Basin	Ea.	\$ 5,000.00	\$1,920.00	\$ 6,920.00	\$ 5,000.00	\$ 1,920.00	\$ 6,920.00

\$557,537.50    \$596,318.50    \$ 1,153,856.00

Location Modifier	1.00	1.25
	<u>\$557,537.50</u>	<u>\$745,398.13</u>
		\$ 1,302,935.63

Date Modifier (2005 RS Means)	1.00
	<u>\$1,302,935.63</u>

at 196,008 Sq. Ft.            \$6.65/Sq. ft.

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**Detailed Structural Systems Estimate, Building B**

	CSI Master-format	Description	Quantity	Unit	Mat.	Labor	Equip.	Total	Total Incl. O&P
<b>FOOTINGS</b>	3110	Forms In Place, Footings	617.5	SFCA	1.66	3.4		5.06	7.15
					<b>1025.05</b>	<b>2099.5</b>	<b>0</b>	<b>3124.55</b>	<b>4415.125</b>
	3210	Reinforcing Steel, Footings	1.61	TON	760	580		1340	1800
					<b>1223.6</b>	<b>933.8</b>	<b>0</b>	<b>2157.4</b>	<b>2898</b>
	3310	Structural Concrete 3000 psi, direct chute	61.2	CY	81	11.2	0.4	11.6	115
					<b>4957.2</b>	<b>685.44</b>	<b>24.48</b>	<b>709.92</b>	<b>7038</b>
<b>PRECAST DECK</b>	3410	Hollow Core Precast, 12"	1773	SF	6.15	0.67	0.36	7.18	8.3
					<b>10903.95</b>	<b>1187.91</b>	<b>638.28</b>	<b>12730.14</b>	<b>14715.9</b>
	3310	Concrete Topping 3000 psi, direct chute	16.5	CY	81	11.2	0.4	11.6	115
					<b>1336.5</b>	<b>184.8</b>	<b>6.6</b>	<b>191.4</b>	<b>1897.5</b>
	3220	Welded Wire Fabric (6x6 W2.1)	121.5	CSF	25.5	19.6	0	45.1	60.5
					<b>3098.25</b>	<b>2381.4</b>	<b>0</b>	<b>5479.65</b>	<b>7350.75</b>
<b>S.O.G.</b>	3310	Structural Concrete 3000 psi, pumped	150	CY	81	13.1	5.35	18.45	130
					<b>12150</b>	<b>1965</b>	<b>802.5</b>	<b>2767.5</b>	<b>19500</b>
	3220	Welded Wire Fabric (6x6 W1.4)	18	CSF	19.35	17.35		36.7	50
					<b>348.3</b>	<b>312.3</b>	<b>0</b>	<b>660.6</b>	<b>900</b>
<b>ELEV. SLAB</b>	3310	Structural Concrete 3000 psi, pumped	158	CY	81	13.1	5.35	18.45	130
					<b>12798</b>	<b>2069.8</b>	<b>845.3</b>	<b>2915.1</b>	<b>20540</b>
	3220	Welded Wire Fabric (6x6 W1.4)	103	CSF	19.35	17.35		36.7	50
					<b>1993.05</b>	<b>1787.05</b>	<b>0</b>	<b>3780.1</b>	<b>5150</b>
	5310	Metal Decking, 1.5" Deep, 20 Ga	20420	SF	1.14	0.25	0.02	1.41	1.72
					<b>23278.8</b>	<b>5105</b>	<b>408.4</b>	<b>28792.2</b>	<b>35122.4</b>
<b>STEEL</b>	5120	W16 x 26	150	LF	25	2.07	1.33	28.4	32.5
					<b>3750</b>	<b>310.5</b>	<b>199.5</b>	<b>4260</b>	<b>4875</b>
	5120	W18 x 35	438	LF	33.5	3.13	1.46	38.09	44
				<b>14673</b>	<b>1370.94</b>	<b>639.48</b>	<b>16683.42</b>	<b>19272</b>	

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5120	W18 x 40	36	LF	33.5	3.13	1.46	43.09	49.5
				<b>1206</b>	<b>112.68</b>	<b>52.56</b>	<b>1551.24</b>	<b>1782</b>
5120	W21 x 44	832	LF	42.5	2.82	1.32	46.64	53
				<b>35360</b>	<b>2346.24</b>	<b>1098.24</b>	<b>38804.48</b>	<b>44096</b>
5120	W21 x 50	90	LF	48	2.82	1.32	52.14	59.5
				<b>4320</b>	<b>253.8</b>	<b>118.8</b>	<b>4692.6</b>	<b>5355</b>
5120	W8 x 58	480	LF	53	3.76	2.41	59.17	65
				<b>25440</b>	<b>1804.8</b>	<b>1156.8</b>	<b>28401.6</b>	<b>31200</b>
5120	W8 x 35	480	LF	33.5	3.76	2.41	39.67	46
				<b>16080</b>	<b>1804.8</b>	<b>1156.8</b>	<b>19041.6</b>	<b>22080</b>
5120	1/4" Steel Plate	184	CWT	43	0	0	43	47.5
				<b>7912</b>	<b>0</b>	<b>0</b>	<b>7912</b>	<b>8740</b>
5090	Continuous Weld for Steel Plate	2400	LF	0.17	2.14	0.54	2.85	4.62
				<b>408</b>	<b>5136</b>	<b>1296</b>	<b>6840</b>	<b>11088</b>
5210	28K10 Steel Joist	1400	LF	8.95	1.25	0.62	10.8	12.7
				<b>12530</b>	<b>1750</b>	<b>868</b>	<b>15120</b>	<b>17780</b>
5210	22K5 Steel Joist	360	LF	5.3	1.5	0.74	7.54	9.25
				<b>1908</b>	<b>540</b>	<b>266.4</b>	<b>2714.4</b>	<b>3330</b>
5210	18K5 Steel Joist	360	LF	4.69	1.5	0.74	6.93	8.6
				<b>1688.4</b>	<b>540</b>	<b>266.4</b>	<b>2494.8</b>	<b>3096</b>

**Totals for Typical Bay of Building B:**

Typical Bay = 1/4 of Building B

**Extrapolated Totals:**

Location Modifier

Date Modifier = 1 (RS Means 2005)

**Adjusted Totals:**

Mat.	Labor	Equip.	Total	Total Incl. O&P
<b>\$198,388.10</b>	<b>\$ 34,681.76</b>	<b>\$ 9,844.54</b>	<b>\$ 211,824.70</b>	<b>\$ 292,221.68</b>
<b>\$793,552.40</b>	<b>\$138,727.04</b>	<b>\$39,378.16</b>	<b>\$ 847,298.80</b>	<b>\$1,168,886.70</b>
1.00	1.09	1.02		

<b>\$793,552.40</b>	<b>\$151,767.38</b>	<b>\$40,008.21</b>	<b>\$ 985,327.99</b>	<b>\$1,388,290.29</b>
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**Site Plan: Steel Erection**



This is a layout of the Geneva Middle School – North construction site during steel erection on building B. Building B is the easternmost building toward the bottom of the site plan. The crane used for placement will need to be repositioned once, from the south side of building B to the north side. Staging areas for the steel are located within reach of the crane for each position.

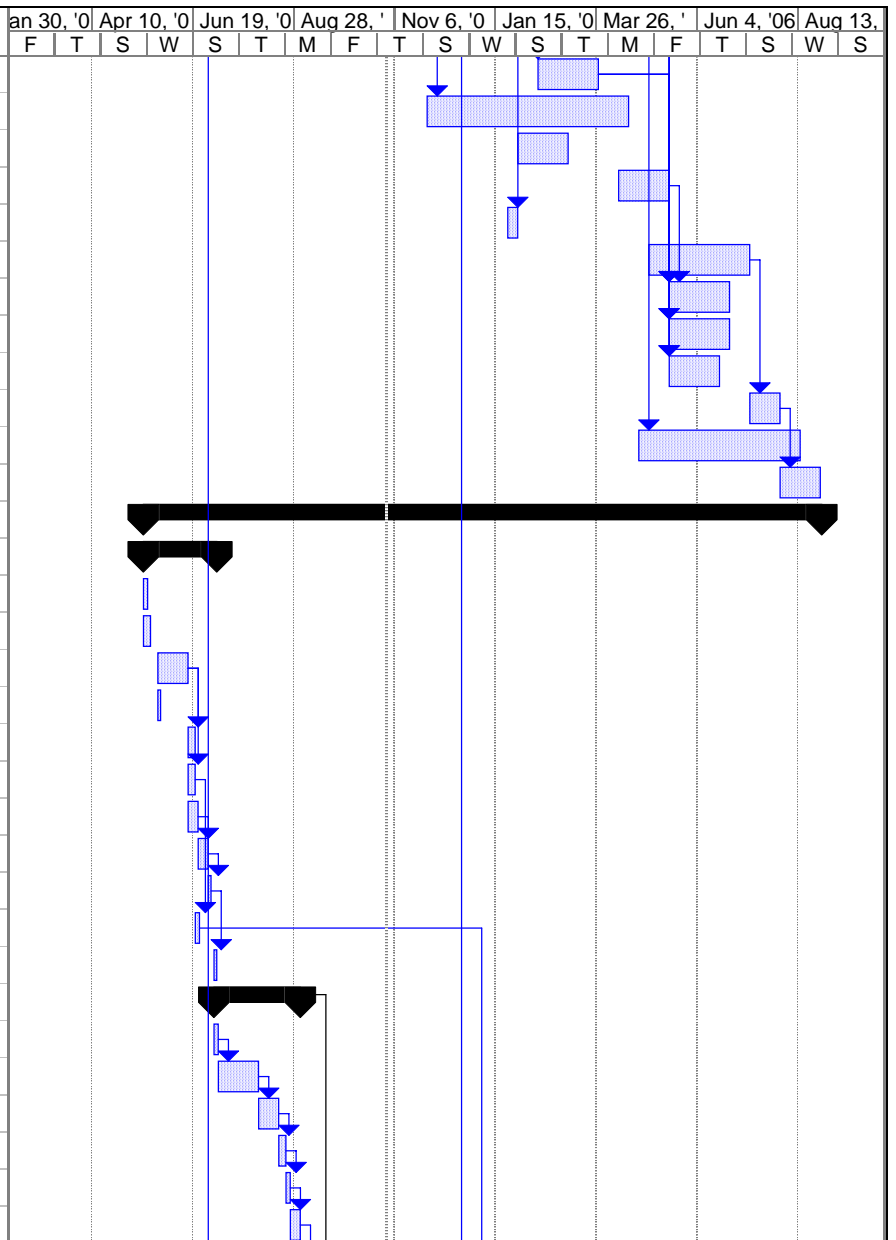
Construction traffic is one-way, entering from Fabyan Parkway at the south, traveling down Viking Drive to the construction site, and exiting to the north on Kaneville Road. All deliveries pass within eyeshot of the Project Management trailer.

**Detailed Project Schedule**

ID	Task Name	Duration	Start	Finish	Jan 30, '0	Apr 10, '0	Jun 19, '0	Aug 28, '	Nov 6, '0	Jan 15, '0	Mar 26, '	Jun 4, '06	Aug 13, '06
					F	T	S	W	S	T	M	F	T
1	<b>CONSTRUCTION</b>	337 days	Mon 5/16/05	Tue 8/29/06									
2	<b>BUILDING C</b>	336 days	Mon 5/16/05	Mon 8/28/06									
3	<b>Foundation - BUILDING C</b>	63 days	Mon 5/16/05	Wed 8/10/05									
4	Layout Building C	3 days	Mon 5/16/05	Wed 5/18/05									
5	Foundations Building C	25 days	Thu 5/19/05	Wed 6/22/05									
6	SAN/ST Underslab Plumbing Building C	15 days	Thu 6/23/05	Wed 7/13/05									
7	Grade Building C	5 days	Thu 7/14/05	Wed 7/20/05									
8	CMU Starter Building C	5 days	Thu 7/21/05	Wed 7/27/05									
9	Electric, Below Slab Building C	5 days	Thu 7/21/05	Wed 7/27/05									
10	SOG Building C	10 days	Thu 7/28/05	Wed 8/10/05									
11	<b>Superstructure / Enclosure Building C</b>	90 days	Thu 7/28/05	Wed 11/30/05									
12	CMU - Loadbearing Walls Building C	50 days	Thu 7/28/05	Wed 10/5/05									
13	Precast Deck Mezzanine	5 days	Thu 9/22/05	Wed 9/28/05									
14	Steel Truss and Deck Building C	10 days	Thu 9/29/05	Wed 10/12/05									
15	Concrete - Penthouse Building C	5 days	Thu 10/13/05	Wed 10/19/05									
16	Roof Drains Building C	10 days	Thu 10/13/05	Wed 10/26/05									
17	Roof Curbs and Penetrations Building C	5 days	Thu 10/13/05	Wed 10/19/05									
18	Roofing System Building C	15 days	Thu 10/27/05	Wed 11/16/05									
19	Brick Veneer Building C	30 days	Thu 10/6/05	Wed 11/16/05									
20	Windows / Doors Building C	10 days	Thu 11/17/05	Wed 11/30/05									
21	<b>Interior Development Building C</b>	233 days	Thu 10/6/05	Mon 8/28/06									
22	Layout Walls Building C	3 days	Thu 11/17/05	Mon 11/21/05									
23	HM Frames Building C	5 days	Tue 11/22/05	Mon 11/28/05									
24	CMU Interior Walls Building C	40 days	Tue 11/29/05	Mon 1/23/06									
25	Boiler Room Development Building C	40 days	Thu 12/1/05	Wed 1/25/06									
26	Kitchen Development Building C	60 days	Thu 12/1/05	Wed 2/22/06									
27	Electric Room Main Development Building C	30 days	Thu 12/1/05	Wed 1/11/06									
28	AHU 5 & 6 Penthouse Development Building	30 days	Thu 11/17/05	Wed 12/28/05									
29	Stairs Building C	10 days	Thu 10/6/05	Wed 10/19/05									
30	HVAC Duct & TAB Rough Building C	50 days	Tue 12/27/05	Mon 3/6/06									
31	Sprinkler Rough Building C	25 days	Tue 2/14/06	Mon 3/20/06									
32	HWS / HWR Building C	50 days	Tue 2/14/06	Mon 4/24/06									










Project: ThesisTech2.mpp Date: Mon 10/31/05	Task		Milestone		External Tasks	
	Split		Summary		External Milestone	
	Progress		Project Summary		Deadline	

ID	Task Name	Duration	Start	Finish	Jan 30, '0	Apr 10, '0	Jun 19, '0	Aug 28, '0	Nov 6, '0	Jan 15, '0	Mar 26, '0	Jun 4, '06	Aug 13, '06
					F	T	S	W	S	T	M	F	T
33	Waste, Vent, Water, Plumbing Building C	30 days	Tue 2/14/06	Mon 3/27/06									
34	Electric Rough All Systems Building C	100 days	Tue 11/29/05	Mon 4/17/06									
35	Drywall Partitions Building C	25 days	Tue 1/31/06	Mon 3/6/06									
36	Ceiling Grid and Soffit Framing Building C	25 days	Tue 4/11/06	Mon 5/15/06									
37	Overhead Partition Building C	5 days	Tue 1/24/06	Mon 1/30/06									
38	Trim MEPs to Ceiling Building C	50 days	Tue 5/2/06	Mon 7/10/06									
39	Plumbing Trim Building C	30 days	Tue 5/16/06	Mon 6/26/06									
40	Casework Building C	30 days	Tue 5/16/06	Mon 6/26/06									
41	Lockers Building C	25 days	Tue 5/16/06	Mon 6/19/06									
42	Doors and Hardware Building C	15 days	Tue 7/11/06	Mon 7/31/06									
43	Finnishes Building C	80 days	Tue 4/25/06	Mon 8/14/06									
44	Punch List, Owner F F & E	20 days	Tue 8/1/06	Mon 8/28/06									
45	<b>BUILDING B (2 Story)</b>	337 days	Mon 5/16/05	Tue 8/29/06									
46	<b>Foundation Building B Basement</b>	37 days	Mon 5/16/05	Tue 7/5/05									
47	Layout Building B Basement	3 days	Mon 5/16/05	Wed 5/18/05									
48	Excavate Building B Basement	5 days	Mon 5/16/05	Fri 5/20/05									
49	Foundation Walls Building B Basement	15 days	Thu 5/26/05	Wed 6/15/05									
50	Elevator Shaft	2 days	Thu 5/26/05	Fri 5/27/05									
51	Sump Pump / Sewage Ejector SAN / ST	3 days	Thu 6/16/05	Mon 6/20/05									
52	SAN / ST Below Slab Building B Basement	3 days	Thu 6/16/05	Mon 6/20/05									
53	Drain Tile Building B Basement	5 days	Thu 6/16/05	Wed 6/22/05									
54	Waterproofing Building B Basement	5 days	Thu 6/23/05	Wed 6/29/05									
55	Backfill Building B Basement	2 days	Thu 6/30/05	Fri 7/1/05									
56	SOG Building B Basement	3 days	Tue 6/21/05	Thu 6/23/05									
57	Pre-cast Planks	2 days	Mon 7/4/05	Tue 7/5/05									
58	<b>Foundations Level 1 Building B</b>	44 days	Mon 7/4/05	Thu 9/1/05									
59	Layout B/1	3 days	Mon 7/4/05	Wed 7/6/05									
60	Foundations B/1	20 days	Thu 7/7/05	Wed 8/3/05									
61	SAN/St Under Slab Plumbing B/1	10 days	Thu 8/4/05	Wed 8/17/05									
62	Restore Grades B/1	3 days	Thu 8/18/05	Mon 8/22/05									
63	Electric Below Slab Building B	3 days	Tue 8/23/05	Thu 8/25/05									
64	SOG Level 1 Building B	5 days	Fri 8/26/05	Thu 9/1/05									



Project: ThesisTech2.mpp Date: Mon 10/31/05	Task		Milestone		External Tasks	
	Split		Summary		External Milestone	
	Progress		Project Summary		Deadline	

ID	Task Name	Duration	Start	Finish	Jan 30, '0	Apr 10, '0	Jun 19, '0	Aug 28, '	Nov 6, '0	Jan 15, '0	Mar 26, '	Jun 4, '06	Aug 13, '
					F	T	S	W	S	T	M	F	T
65	<b>Superstructure / Enclosure Building B</b>	110 days	Fri 9/2/05	Thu 2/2/06									
66	Steel 2nd Floor Building B	10 days	Fri 9/2/05	Thu 9/15/05									
67	Steel Roof Building B	10 days	Fri 9/16/05	Thu 9/29/05									
68	Stairs 1st-2nd Floor Building B	20 days	Fri 9/30/05	Thu 10/27/05									
69	Concrete - 2nd Floor Deck Building B	10 days	Fri 9/16/05	Thu 9/29/05									
70	CMU Exterior Walls Building B	50 days	Fri 9/30/05	Thu 12/8/05									
71	Roof Drains Building B	5 days	Fri 9/30/05	Thu 10/6/05									
72	Roof Curbs and Penetrations Building B	5 days	Fri 9/30/05	Thu 10/6/05									
73	Roofing System Building B	15 days	Fri 12/9/05	Thu 12/29/05									
74	Skylight	10 days	Fri 12/9/05	Thu 12/22/05									
75	Brick Veneer Building B	30 days	Fri 12/9/05	Thu 1/19/06									
76	Windows / Doors Building B	10 days	Fri 1/20/06	Thu 2/2/06									
77	<b>Interior Development Basement Building</b>	70 days	Fri 10/28/05	Thu 2/2/06									
78	AHU 3 & 4 Development	20 days	Fri 12/30/05	Thu 1/26/06									
79	Elevator Equipment	3 days	Fri 12/30/05	Tue 1/3/06									
80	Stairs Basement Building B	5 days	Fri 10/28/05	Thu 11/3/05									
81	CMU Walls	5 days	Fri 1/27/06	Thu 2/2/06									
82	Pumps	3 days	Fri 1/6/06	Tue 1/10/06									
83	Electric	20 days	Fri 1/6/06	Thu 2/2/06									
84	Louvers	3 days	Fri 1/27/06	Tue 1/31/06									
85	<b>Interior Development Level 1 Building B</b>	188 days	Fri 12/9/05	Tue 8/29/06									
86	Layout Walls B/1	3 days	Fri 12/9/05	Tue 12/13/05									
87	Set HM Frames B/1	5 days	Wed 12/14/05	Tue 12/20/05									
88	CMU Interior Partitions B/1	40 days	Wed 12/21/05	Tue 2/14/06									
89	HVAC Duct and TAB Rough B/1	50 days	Wed 2/1/06	Tue 4/11/06									
90	Sprinkler Rough B/1	20 days	Wed 3/29/06	Tue 4/25/06									
91	HWS / HWR B/1	45 days	Wed 3/22/06	Tue 5/23/06									
92	Waste, Vent, Water Plumbing B/1	40 days	Wed 3/29/06	Tue 5/23/06									
93	Electric Rough B/1	110 days	Wed 12/21/05	Tue 5/23/06									
94	Ceiling Grid and Soffit Framing	25 days	Wed 5/24/06	Tue 6/27/06									
95	MEP Trim to Ceiling B/1	20 days	Wed 5/31/06	Tue 6/27/06									
96	Plumbing Trim B/1	25 days	Wed 5/31/06	Tue 7/4/06									

Project: ThesisTech2.mpp Date: Mon 10/31/05	Task		Milestone		External Tasks	
	Split		Summary		External Milestone	
	Progress		Project Summary		Deadline	

ID	Task Name	Duration	Start	Finish	Jan 30, '0	Apr 10, '0	Jun 19, '0	Aug 28, '0	Nov 6, '0	Jan 15, '0	Mar 26, '0	Jun 4, '06	Aug 13, '06
					F	T	S	W	S	T	M	F	T
97	Casework B/1	30 days	Wed 6/14/06	Tue 7/25/06									
98	Lockers B/1	20 days	Wed 6/28/06	Tue 7/25/06									
99	Doors and Hardware B/1	20 days	Wed 6/28/06	Tue 7/25/06									
100	Finishes B/1	70 days	Wed 5/10/06	Tue 8/15/06									
101	Punch List, Owner F F & E	20 days	Wed 8/2/06	Tue 8/29/06									
102	<b>Interior Development Level 2 Building B</b>	188 days	Fri 12/9/05	Tue 8/29/06									
103	Layout Walls B/2	3 days	Fri 12/9/05	Tue 12/13/05									
104	HM Frames B.2	5 days	Wed 12/14/05	Tue 12/20/05									
105	CMU Interior Walls B/2	40 days	Wed 12/21/05	Tue 2/14/06									
106	Elevator	20 days	Wed 2/15/06	Tue 3/14/06									
107	HVAC Duct and TAB Rough B/2	50 days	Wed 1/18/06	Tue 3/28/06									
108	Sprinkler Rough B/2	20 days	Wed 3/1/06	Tue 3/28/06									
109	HWS / HWR B/2	45 days	Wed 2/15/06	Tue 4/18/06									
110	Waste, Water, Vent Plumbing B/2	30 days	Wed 3/8/06	Tue 4/18/06									
111	Electric Rough B/2	100 days	Wed 12/21/05	Tue 5/9/06									
112	Ceiling Grid and Soffit Framing B/2	25 days	Wed 5/10/06	Tue 6/13/06									
113	MEP Trim to Ceiling B/2	25 days	Wed 4/12/06	Tue 5/16/06									
114	Plumbing Trim B/2	30 days	Wed 6/14/06	Tue 7/25/06									
115	Casework B/2	30 days	Wed 5/17/06	Tue 6/27/06									
116	Lockers B/2	10 days	Wed 6/14/06	Tue 6/27/06									
117	Doors and Hardware B/2	20 days	Wed 6/28/06	Tue 7/25/06									
118	Finishes B/2	80 days	Wed 4/19/06	Tue 8/8/06									
119	Punch List, Owner F F & E	20 days	Wed 8/2/06	Tue 8/29/06									
120	<b>BUILDING A</b>	309 days	Mon 5/23/05	Thu 7/27/06									
121	<b>Foundation Systems Building A</b>	61 days	Mon 5/23/05	Mon 8/15/05									
122	Layout A	3 days	Thu 6/23/05	Mon 6/27/05									
123	Foundations Building A	25 days	Tue 6/28/05	Mon 8/1/05									
124	SAN/ST Below Slab Plumbing Building A	15 days	Tue 8/2/05	Mon 8/22/05									
125	Grade Building A	3 days	Tue 8/23/05	Thu 8/25/05									
126	Electric Below Slab Building A	5 days	Fri 8/26/05	Thu 9/1/05									
127	CMU Starter Building A	5 days	Fri 8/26/05	Thu 9/1/05									
128	SOG Building A	10 days	Fri 9/2/05	Thu 9/15/05									

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					F	T	S	W	S	T	M	F	T	S	W	S	T	M
129	<b>Superstructure / Enclosure Building A</b>	80 days	Fri 9/2/05	Thu 12/22/05														
130	CMU Load Bearing Walls Building A	40 days	Fri 9/2/05	Thu 10/27/05														
131	Steel Truss and Deck Building A	15 days	Fri 10/28/05	Thu 11/17/05														
132	Concrete Penthouse Building A	5 days	Fri 11/18/05	Thu 11/24/05														
133	Roof Drains Building A	10 days	Fri 11/18/05	Thu 12/1/05														
134	Roof Curbs and Penetrations Building A	5 days	Fri 11/18/05	Thu 11/24/05														
135	Roofing System Building A	15 days	Fri 12/2/05	Thu 12/22/05														
136	Brick Veneer Building A	30 days	Fri 10/28/05	Thu 12/8/05														
137	Windows / Doors Building A	10 days	Fri 12/9/05	Thu 12/22/05														
138	<b>Interior Development Building A</b>	178 days	Fri 12/23/05	Tue 8/29/06														
139	Layout Walls Building A	3 days	Fri 12/23/05	Tue 12/27/05														
140	HM Frames Building A	5 days	Fri 12/23/05	Thu 12/29/05														
141	CMU Interior Walls Building A	40 days	Wed 1/4/06	Tue 2/28/06														
142	AHU 1 & 2 Penthouse Development Building	25 days	Fri 12/23/05	Thu 1/26/06														
143	Stairs Building A	5 days	Wed 3/1/06	Tue 3/7/06														
144	HVAC Duct and TAB Rough Building A	40 days	Wed 2/1/06	Tue 3/28/06														
145	Sprinkler Rough Building A	20 days	Wed 3/15/06	Tue 4/11/06														
146	HWS / HWR Rough Building A	40 days	Wed 3/15/06	Tue 5/9/06														
147	Waste, Vent, Water Building A	40 days	Wed 3/15/06	Tue 5/9/06														
148	Electric Rough Building A	100 days	Wed 1/4/06	Tue 5/23/06														
149	Drywall Partitions Building A	25 days	Wed 3/1/06	Tue 4/4/06														
150	Overhead Partitions	10 days	Wed 3/1/06	Tue 3/14/06														
151	Ceiling Grid and Soffit Framing Building A	25 days	Wed 4/26/06	Tue 5/30/06														
152	Trim MEPs to Ceiling Building A	30 days	Wed 5/17/06	Tue 6/27/06														
153	Plumbing Trim Building A	20 days	Wed 5/31/06	Tue 6/27/06														
154	Casework Building A	25 days	Wed 6/28/06	Tue 8/1/06														
155	Lockers Building A	20 days	Wed 6/28/06	Tue 7/25/06														
156	Doors and Hardware Building A	15 days	Wed 7/19/06	Tue 8/8/06														
157	Finishes Building A	70 days	Wed 5/10/06	Tue 8/15/06														
158	Punch List, Owner F F & E	20 days	Wed 8/2/06	Tue 8/29/06														

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