Technical Assignment 2

Cost and Schedule Analysis

Ingleside at King Farm

Rockville, MD



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2008-2009 construction management option

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Executive Summary

Key Findings:

Technical Assignment 2 focuses on a Detailed Project Schedule, Phased Site Layout Planning, Detailed Structural Systems Estimate, General Conditions Estimate, and Critical Industry Issues. A detailed schedule begins to show the sequences of work. Different phases of construction are linked to different site layouts. In short, the basic principles of this technical assignment allow students to develop an understanding of how cost and schedule are directly related.

One key element on the schedule is the tower crane erection/disassembly, which drives the completion of the superstructure on the critical path. Another key element of the schedule is the Work Breakdown Structure (WBS) showing the different phases of construction such as Finishes, Superstructure, and Mechanical/Electrical/Plumbing (MEP). Within the WBS, the activities appear to have a stacked profile and it shows the critical relationships between the different phases of construction.

It is clear that a construction site evolves throughout a project. The site layout plans show how some elements such as the Temporary Facilities remain in place for the duration of a project, while other items such as temporary transformers and tower cranes are only on site for a short period of time.

In the general conditions estimate, there is costing for the temporary facilities and project staffing. Project staffing comprises of the majority of general conditions costs since people are key in the completion of a project. Some of the staff remains on the project throughout the duration, and some of them only have a small amount of time devoted to the project. The general conditions estimate will also show how the majority of the project staff bill their time directly to the project, but some of the staff, like the project executive, never bill their time directly to the project. Their salaries are primarily budgeted out of the home office expenses. Some of this is charged to overhead such as estimators that play a part in helping companies pursue new work, but actual billing varies by company.

Pursuing work is a major undertaking right now with the current industry issues such as the energy crisis and situation with the economy, so people in positions of pursuing work are highly valuable. The critical industry issues play a major part in how companies approach work and which markets they target. The Partnership for Achieving Construction Excellence (PACE) Roundtable Meeting consists of industry professionals and aspiring professionals that discuss these issues and offer advice on how to succeed in a dry economy by investing in people.

Technical Assignment 1 Questions with Answers:

- 1. What type of agreement does Turner have with Konover and how is the CM fee divided?
 - a. The Joint Venture (JV) is split; Turner earns 51% and Konover earns 49% of the fee.
- 2. What are the impacts of LEED tracking as far as schedule and budget are concerned?
 - a. It hasn't impacted schedule or cost. The anticipated LEED premium is nearly \$400,000. Turner-Konover has a \$200,000 contingency covering unforeseen expenses to eliminate schedule delays due to a funding issue.

Detailed Project Schedule

The detailed project schedule shows how the work sequences overlap to accelerate the schedule. The PT slabs fall on the critical path and drive the schedule for this project. There are various relationships between activities, which makes it difficult to coordinate and implicate a schedule of this nature, especially when stacking trades on the project. A tightly stacked schedule may cause more potential for congestion of trades and may actually create a "deceleration" in the schedule. A "deceleration" should not be a major issue if continuous communication is maintained throughout the project to keep the trades on track with the schedule.

Some items have varying finish dates from what was previously anticipated, but Substantial Completion has remained the same; these are not shown for clarity. One of the major differences in finish dates is *Complete Building Watertight for Finishes*. The finishes will actually start on the lower floors before the whole building is watertight. This is possible to do and maintain a relatively consistent climate since the building has such a large footprint and there is will be less chance for trade congestion. Two large ones that vary are *Complete Structure Topped Out* and *Complete Steel Superstructure – Roof Level*, which will finish 4/9/2008 instead of the originally anticipated 1/30/2008. The concrete subcontractor is already locked into a lump sum bid so the delay will not cause an increase in cost due to the increased time that the tower cranes are on site no Change Orders will be acknowledged for this.

Other items not shown on the schedule for clarity include *Complete for Permanent Power Available (3/24/2008)*, which is complete as the First Floor Finishes are wrapping up. One concern is the anticipated delivery of some major pieces of equipment such as the Cooling Towers (August 2007). These will not be able to be set in place on the roof at time of delivery and will need to remain on the ground for approximately one year. Care must be taken to protect it from being damaged by site equipment, being vandalized, or damaged by weather. Smaller equipment can easily be staged inside the structure until they are ready for install.

Site Layout Planning

The attached site layout planning drawings show the critical phases of construction. During the site excavation, the workflow is the same as it is during the other parts of construction starting with the southwest corner of the building and working clockwise through the footprint toward the east.

Excavation:

The limits of the excavation are determined by the footprint of the Garage since the Garage is larger than the upper floors; see excavation line shown on attached Excavation Site Layout Plan. This site does not require deep excavation and there is adequate space to slope the edges of the excavation in order to maintain site safety. See typical Excavation Slope Detail below for areas at approximately 10' in depth.

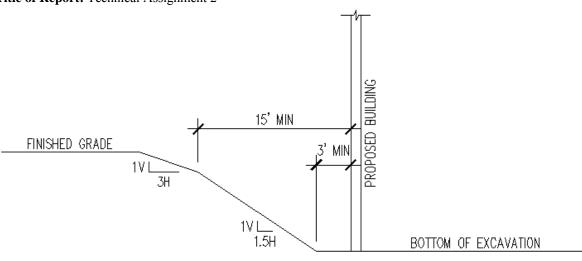


Figure 1: Excavation Slope Detail

More care is required on the south walls of the east and west wings since the south walls are near the property line and sidewalk. The elevation of the existing soil is approximately 5' deep at these locations and will require a slope of 1.5H:1V. See East & West Wing South Wall Excavation Slope Detail for areas at approximately 5' in depth.

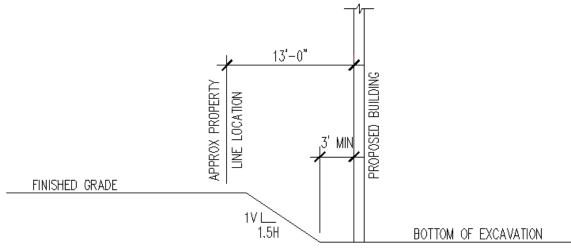


Figure 2: East & West Wing South Wall Excavation Slope Detail

Substructure / Superstructure:

The substructure and superstructure are both constructed with cast-in-place concrete, so the site layout planning phases is virtually the same. The major difference between the construction of the substructure compared to the superstructure is that the superstructure sequences begin to overlap with the finishes; there is some scaffolding shown on the superstructure site layout plan.

Concrete is hoisted using the cranes and a bucket. This project utilizes two Liebherr tower cranes with overlapping radii and Camlever buckets to cover the large footprint of the building. Since their radii overlap, the tower cranes are erected to different elevations to minimize the risk of collisions.

The critical lift is the determining factor in the selection of the cranes. In this case, the crane selection was driven by the desired production of the concrete superstructure, which is to place each section in one day. In order to do this, this project uses a Miller Long Batch Plant with an approximate maximum production rate of 90 loads per hour to keep up with simultaneous pours on either side of the building. Each section of the construction pours contains an approximate maximum of 360 CY of concrete, which requires a three CY bucket to meet desired production. Care must be taken in reaching toward the footprint limits and the bucket should not be filled to capacity.

Crane Selection with Justification:

Liebherr 250 EC-B 12 Litronic (working radius Load Diagram 2)				
Max. Lifting Capacity	$25,794 \text{ lbs } @ \le 80.1$			
Max. Lifting Capacity at Max Radius	4,960 lbs @ 229'			
Max Hook Height	285.8'			
Max Hook Height	Max Hook Height 285.8'			



www.liebherr.com/EB-250.pdf	(GmbH, 2008)

Model	Width	Width	Load	Overall	Gate	Weight	Cap
Noder	OD	ID	Height	Height	Dia.	Lbs.	Yd.
CL-050	46"	43"	35"	51"	21"	260	1/2
CL-075	46"	43"	42"	60"	21"	325	3/4
CL-100	56"	52"	46"	63"	24"	435	1
Cl-150	64"	60"	52"	72"	24"	570	1-1/2
CL-200	71"	65"	57"	80"	24"	645	2
CL-300	71"	70"	67"	90"	24"	890	3
CXL-200	71"	65"	56"	80"	32"	870	2
CXL-300	76"	70"	67"	90"	32"	1125	3
CXL-400	88"	82"	73"	108"	32"	1450	4
CXL-500	88"	82"	82"	114"	32"	1500	5
			Option	al Air Operated	Gates		

Figure 3: Camlever Standard Buckets

http://www.alpind.com/Camlever-Buckets.pdf (Development, 2004)

Critical Lift Determination	
Normal Weight Wet Concrete	4,050 #/CY x 3 CY = 12,150 lbs
CL-300 Bucket Weight	890 lbs
Full Bucket Weight	13,040 lbs
Gas-Fired Rooftop A/C Unit Weight	2,800 lbs
Gas-Fired Boiler Weight	735 lbs
Induced Draft Cooling Tower Weight	8,030 lbs
Emergency Generator Weight	44,000 lbs (lifted with mobile crane)

Finishes:

This site plan is somewhat bare. The tower cranes are replaced by material hoists during this phase. There is no longer a need for the batch plant, which opens the courtyard up for additional material lay down. Deliveries are unloaded near the material hoists using forklifts so the materials can be quickly moved into the building.

Detailed Structural Systems Estimate

The attached take-offs show quantities calculated for the structural bay between Column Lines 10.2 / 11.2 and B / C, which is the most logical bay in the floor plan. R.S. Means data offers both the material and the labor cost, and since the PT structural system with relatively thin slab thickness seems to be the logical choice for this project, the estimate is provided with a combined material and labor cost with the currently designed structural system.

A detailed structural estimate resulted in a lower cost than the previously estimated cost of the structural system. It proved to be a beneficial exercise from a CM standpoint and opens the door for being awarded a project with the significant cost savings when presenting a proposal to an owner. See table, attached take-offs, and CSI Masterformat estimate for more information.

Structural Bay Cost:	\$71,443.87
Total Structural Cost:	\$8,991,380.83
Percent of Total Project Cost:	7.9%
Total Project Cost (R.S. Means Tech. 1):	\$113,922,509.37
Total Structural Cost (approx 10 % Tech. 1):	\$10,429,830.00

Take-Off Notes:

- All sizes and quantities taken from structural drawings unless otherwise noted in spreadsheet.
- Areas calculated using distances recorded from CAD drawings.

Quantity take-offs are listed first, then the estimate is listed second.

Garage:	•			•		·	•
Column Footings (Concrete):							
Column Footing Designation	Length (ft)		Width (ft)	Depth (ft)	Volume (CF)	Volume (CY)	
F17T (12'-6" x 12'-6" x 35"):		12.50	12.50	2.9	2 455	73 16.88	
F17T (12'-6" x 12'-6" x 35"):		12.50	12.50				
F16T (12'-0" x 12'-0" x 34"):		12.00	12.00				
F16T (12'-0" x 12'-0" x 34"):							
F101 (12 -0 % 12 -0 % 34):		12.00	12.00	2.8	5 408	00 15.11	
						T-1-1-01- (033050)	63.98
						Total Qty (033850)	65.98
Column Footings (Rebar 1.13" Diameter);				1			-
Column Footing Designation	Length (ft)		# of Bars	Weight (plf)	Weight (lbs)	Weight (tons)	
F17T (11#9 E.W. Top & Bottom):		275.00	11.00	3.4	0 935	00 0.47	
F17T (11#9 E.W. Top & Bottom):		275.00	11.00	3.4	0 935	00 0.47	
F16T (10#9 E.W. Top & Bottom):		240.00	11.00	3.4	0 816	00 0.41	
F16T (10#9 E.W. Top & Bottom):		240.00	11.00	3.4	0 816	00 0.41	
···· (···· -··· ·· · · · · · · · · · · ·							
						Total Qty (0321300)	1.75
						101010(19 (0521500)	1.75
Columna (Communic)							
Columns (Concrete):							
Column Designation	Length (ft)		Width (ft)	Height (ft)	Volume (CF)	Volume (CY)	
B (30" x 18" x 10"):		2.50	1.50	14.2			
B (30" x 18" x 10"):		2.50	1.50	14.2	5 53	44 1.98	
B (30" x 18" x 10'):		2.50	1.50	14.1	7 53	14 1.97	
B (30" x 18" x 10'):		2.50	1.50	14.1			
		2.00					
						T-t-1 (0t- (022020)	7.89
						Total Qty (033920)	7.09
Columna (Dolars 18 Discovers)							
Columns (Rebar 1" Diameter):					1		1
Column Designation	Column Height (ft)		# of Bars	Weight (plf)	Weight (lbs)	Weight (tons)	
B (10#8 E.W. Vertical)		14.25	10.00	2.6			
B (10#8 E.W. Vertical)		14.25	10.00	2.6	7 380	48 0.19	
B (10#8 E.W. Vertical)		14.25	10.00	2.6	7 380	48 0.19	
B (10#8 E.W. Vertical)		14.25	10.00			48 0.19	
· · · ·							
						Total Qty (0321300)	0.76
						10tal Qty (0521500)	0.70
Columna (Dolore 11 Discussion)							
Columns (Rebar 1" Diameter):							
Column Designation	Column Perimeter & Trar		# of Bars (every 12" + 4)	Weight (plf)	Weight (lbs)	Weight (tons)	
B (12" o.c. w/4 at 3" on top Horizontal):		11.00	17.00				
B (12" o.c. w/4 at 3" on top Horizontal):		11.00	17.00				
B (12" o.c. w/4 at 3" on top Horizontal):		11.00	17.00	2.6	7 29	37 0.01	
B (12" o.c. w/4 at 3" on top Horizontal):		11.00	17.00	2.6	7 29	37 0.01	
· · · ·							
						Total Qty (0321300)	0.06
							5.00
SOG Concrete (5"):			L	I	-		
	Learnin (A)		William (24)	A (SE)	Danah (fa)	Values (CE)	Values (CV)
Bay	Length (ft)		Width (ft)	Area (SF)	Depth (ft)	Volume (CF)	Volume (CY)
10.2 / 11.2 and B / C Concrete		29.50	22.81	-		42 280.40	10.39
10.2 / 11.2 and B / C Concrete Finishing		29.50	22.81	672.9	7		
							10.30
						Total Qty (03314400)	10.39
						Total Qty (03314400) Total Qty (03350350)	
SOG Rainfarring (6" x 6" W" 0 v 7 0 UUUP							
SOG Reinforcing (6" x 6" W2.9 x 2.9 WWF):	Leasth 75.5		1971-Jak (24)	A	Area (PSE)		
Bay	Length (ft)	20.55	Width (ft)	Area (SF)	Area (CSF)	Total Qty (03350350)	
	Length (ft)	29.50	Width (ft) 22.81	Area (SF) 672.9			
Bay	Length (ft)	29.50				Total Qty (03350350)	672.97
Bay	Length (ft)	29.50				Total Qty (03350350)	6.73

AE Faculty Consultant: Dr. David Riley Date of Submission: 10/24/2008 Title of Report: Technical Assignment 2 If Floor (#DOV's multiplied by 6):

Concrete Slab (<u>8" Post-Tension</u>); Bay						
	Length (ft)	Width (ft)	Depth (ft)	Volume (CF)	Volume (CY)	
10.2 / 11.2 and B / C	29.			448.65	16.62	
					Total Qty (03301950)	99.70
Columns (Concrete):						
Column Designation	Length (ft)	Width (ft)	Height (ft)	Volume (CF)	Volume (CY)	
B (30" x 18" x 10"):	2.			37.50	1.39	
B (30" x 18" x 10):	2.			37.50	1.39	
B (30" x 18" x 10"): B (30" x 18" x 10"):	2.			37.50	1.39	
B (50 % 18 % 10).	۷.	0 1.30	10.00	37.50	1.39	
					Total Qty (03300920)	33.33
					10tal Qty (05500920)	33.33
Rebar on Top of Columns (#5 .333Lu + Column Width):					I	
Column Designation	Length (ft)	# of Bars	Weight (plf)	Weight (lbs)	Weight (tons)	
10.2-B (3 E.W.)	60.			243.29	0.12	
11.2-B (3 E.W.)	60.	0 6.00	0.67	243.29	0.12	
10.2-C (3 E.W.)	60.	0 6.00	0.67	243.29	0.12	
11.2-C (3 E.W.)	60.	0 6.00	0.67	243.29	0.12	
					Total Qty (03210250)	2.92
Rebar in Slab (#5 x 24'-0" at 3' o.c. Bottom):						
Bay	Length (ft)	# of Bars		Weight (lbs)	Weight (tons)	
10.2 / 11.2 and B / C	192.	0 8.00	1.04	1602.05	0.80	
					Total Qty (03210250)	4.81
Tandons on Columns:		1				
Tendons on Columns:	Leasth south as at 101	Sticlate and a sector	# of Tendens	# of Toodooo	Total Langeth 7 Second and the	Valaba / E2 Ibo (A)
Column Designation	Length north-south (ft) 29.	Width east-west (ft) 0 22.81		# of Tendons east-west	Total Length 7 Strands (ft) V 3248.88	Veight (.53 lbs/ft)
10.2-B (8#5T & 10#5T) 11.2-B (8#5T & 9#5T)	29.			10.00	3248.88 3089.19	1721.90 1637.27
11.2-B (8#51 & 9#51) 10.2-C (8#5T & 7#5T)	29.			9.00	2769.81	1637.27 1468.00
11.2-C (8#5T & 9#5T)	29.	0 22.81	L 8.00	9.00	3089.19	1637.27
					Total Qty (03231000)	38786.66
					101010101010000	38780.00
Tendons in Bay;					I	
Bay	Length north-south (ft)	# of Tendons north-south	Total Length 7 strands (ft)	Weight (.53 lbs/ft)		
10.2 / 11.2 and B / C	29.			218.89		
10.2111.2024.210		2.00	415.00	210.05		
					Total Qty (03231000)	1313.34
Seventh Floor:	I	-1	1		Г Г	
Concrete Slab (8" Post-Tension):						
Bay	Length (ft)	Width (ft)	Depth (ft)	Volume (CF)	Volume (CY)	
10.2 / 11.2 and B / C	29.			448.65	16.62	
					Total Qty (03301950)	16.62
Concrete Drop Panels:						
Column Designation	Length (ft)	Width (ft)		Volume (CF)	Volume (CY)	
10.2-B (10' x 10' x 5.25")	10.			43.75	1.62	
11.2-B (10' x 10' x 5.25")	10.1	0 10.00	0.44			
	201	-	0.44	43.75	1.62	
			0.44	43.75		
			0.44	43.75	1.62 Total Qty (03301950)	3.24
			0.44	43.75		3.24
Rebar on Top of Columns (#5.333Lu + Column Width):					Total Qty (03301950)	3.24
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation	Length (ft)	# of Bars	Weight (plf)	Weight (lbs)	Total Qty (03301950) Weight (tons)	3.24
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation 10.2-B (3 E.W.)	Length (ft) 60.	# of Bars 0 6.00	Weight (plf)	Weight (lbs) 63.31	Total Qty (03301950) Weight (tons) 0.03	3.24
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation 10.2-B (3 E.W.) 11.2-B (3 E.W.)	Length (ft) 60.	# of Bars 0 6.00 0 6.00	Weight (plf) 0 1.04 0 1.04	Weight (lbs) 63.31 63.31	Total Qty (03301950) Weight (tons) 0.03 0.03	3.24
Rebar on Top of Columns (#5_333Lu + Column Width): Column Designation 10.2-8 (3 E.W.) 10.2-C (3 E.W.)	Length (ft) 60. 60. 60.	# of Bars 0 6.00 0 6.00 0 6.00	Weight (plf) 1.04 0 1.04 1.04	Weight (lbs) 63.31 63.31	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03	3.24
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation 10.2-B (3 E.W.) 11.2-B (3 E.W.)	Length (ft) 60.	# of Bars 0 6.00 0 6.00 0 6.00	Weight (plf) 1.04 0 1.04 1.04	Weight (lbs) 63.31 63.31	Total Qty (03301950) Weight (tons) 0.03 0.03	3.24
Rebar on Top of Columns (#5_333Lu + Column Width): Column Designation 10.2-8 (3 E W.) 10.2-C (3 E W.)	Length (ft) 60. 60. 60.	# of Bars 0 6.00 0 6.00 0 6.00	Weight (plf) 1.04 0 1.04 1.04	Weight (lbs) 63.31 63.31	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03	
Rebar on Top of Columns (#5_333Lu + Column Width): Column Designation 10.2-8 (3 E W.) 10.2-C (3 E W.)	Length (ft) 60. 60. 60.	# of Bars 0 6.00 0 6.00 0 6.00	Weight (plf) 1.04 0 1.04 1.04	Weight (lbs) 63.31 63.31	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03	0.13
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation 10.2-B (3 E.W.) 11.2-B (3 E.W.) 11.2-C (3 E.W.)	Length (ft) 60. 60. 60.	# of Bars 0 6.00 0 6.00 0 6.00	Weight (plf) 1.04 0 1.04 1.04	Weight (lbs) 63.31 63.31	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03	
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation 10.2-8 (3 E.W.) 11.2-8 (3 E.W.) 11.2-C (3 E.W.) 11.2-C (3 E.W.) Rebar in Slab (#5 x 24-0" at 3' o.c. Bottom);	Length (ft) 60. 60. 60.	# of Bars 0 6.00 0 6.00 0 6.00 0 6.00	Weight (plf) 0 1.04 0 1.04 0 1.04	Weight (lbs) 63.31 63.31 63.31 63.31	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250)	
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation 10.2-B (3 E.W.) 11.2-B (3 E.W.) 11.2-C (3 E.W.) 11.2-C (3 E.W.) Rebar in Slab (#5 x 24-0" at 3" o.c. Bottom); Bay	Length (ft) 60. 60. 60.	# of Bars 0 6.00 0 6.00 0 6.00 0 6.00 1 6.00	Weight (plf)) 1.04) 1.04) 1.04) 1.04 Weight (plf)	Weight (lbs) 63.31 63.31	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03	
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation 10.2-8 (3 E.W.) 11.2-8 (3 E.W.) 11.2-C (3 E.W.) 11.2-C (3 E.W.) Rebar in Slab (#5 x 24-0" at 3' o.c. Bottom);	Length (ft) 60. 60. 60. 60. 60.	# of Bars 0 6.00 0 6.00 0 6.00 0 6.00 1 6.00	Weight (plf)) 1.04) 1.04) 1.04) 1.04 Weight (plf)	Weight (lbs) 63.31 63.33 63.33 63.31 63.31 Weight (lbs)	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons)	
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation 10.2-B (3 E.W.) 11.2-B (3 E.W.) 11.2-C (3 E.W.) 11.2-C (3 E.W.) Rebar in Slab (#5 x 24-0" at 3" o.c. Bottom); Bay	Length (ft) 60. 60. 60. 60. 60.	# of Bars 0 6.00 0 6.00 0 6.00 0 6.00 1 6.00	Weight (plf)) 1.04) 1.04) 1.04) 1.04 Weight (plf)	Weight (lbs) 63.31 63.33 63.33 63.31 63.31 Weight (lbs)	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons)	
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation 10.2-B (3 E.W.) 11.2-B (3 E.W.) 11.2-C (3 E.W.) 11.2-C (3 E.W.) Rebar in Slab (#5 x 24-0" at 3" o.c. Bottom); Bay	Length (ft) 60. 60. 60. 60. 60.	# of Bars 0 6.00 0 6.00 0 6.00 0 6.00 1 6.00	Weight (plf)) 1.04) 1.04) 1.04) 1.04 Weight (plf)	Weight (lbs) 63.31 63.33 63.33 63.31 63.31 Weight (lbs)	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) 0.80	0.13
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation 10.2-B (3 E.W.) 11.2-B (3 E.W.) 11.2-C (3 E.W.) 11.2-C (3 E.W.) Rebar in Slab (#5 x 24-0" at 3" o.c. Bottom); Bay	Length (ft) 60. 60. 60. 60. 60. 60. 60. 192.	# of Bars 0 6.00 0 6.00 0 6.00 0 6.00 1 6.00	Weight (plf)) 1.04) 1.04) 1.04) 1.04 Weight (plf)	Weight (lbs) 63.31 63.33 63.33 63.31 63.31 Weight (lbs)	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) 0.80	0.13
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation 10.2-B (3 E.W.) 11.2-B (3 E.W.) 11.2-C (3 E.W.) 11.2-C (3 E.W.) 11.2-C (3 E.W.) 12-C (3 E.W.)	Length (ft) 60. 60. 60. 60. 60.	# of Bars 0 6.00 0 6.00 0 6.00 0 6.00 1 6.00	Weight (plf) 1.04 1.04 1.04 1.04 1.04 Weight (plf) 1.04	Weight (lbs) 63.31 63.33 63.33 63.31 63.31 Weight (lbs)	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) 0.50 Total Qty (03210250)	0.13
Rebar on Top of Columns (#5_333Lu + Column Width): Column Designation 10.2-B (3 E.W.) 11.2-B (3 E.W.) 11.2-C (3 E.W.) 12-C (3 E.W.) 12-C (3 E.W.) 10.2-C (3 E.W.) 10.2-T (11.2 and B / C Column Designation 10.2-F (3 F.F. & 10#ST)	Length (ft) 60. 60. 60. 60. 60. 60. 60. 60. 60. 60.	# of Bars 6.00 0 6.00 0 6.00 0 6.00 0 6.00 # of Bars 0 # of Bars 0 Width east-west (ft) 0 0 22.61	Weight (plf) 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04	Weight (lbs) 63.31 63.31 63.31 63.31 63.31 Weight (lbs) 1602.05 1602.05	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) 0.80 Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Qty (03210250)	0.13 0.50 Veight (.53 lbz/ft) 1721.90
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation 10.2-B (3 E.W.) 11.2-B (3 E.W.) 11.2-C (3 E.W.) 12.2-C (3	Length (ft) 60. 60. 60. 60. 60. 60. 60. 60. 60. 60.	# of Bars 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 Width east-west (ft) 0 0 22.61 0 22.61	Weight (plf) 0 1.04 0 1.04 0 1.04 0 1.04 Weight (plf) 0 1.04 # of Tendons north-south 8.00	Weight (lbs) 63.31 63.33 63.31 63.31 83.31 1602.05 1602.05 1602.05 8 of Tendons east-west 10.00 9.00	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) Weight (tons) Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Qty (03210250)	0.13 0.80 Veight (.53 lbz/ft) 1721.90 1637.27
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation 10.2-B (3 E.W.) 11.2-B (3 E.W.) 11.2-C (3 E.W.) 11.2-B (3 E.Y.) 10.2-C (8 E.Y.) 11.2-B (3 E.Y.) 12.2-G (5 T. & 7 #5T)	Length (ft) 60. 60. 60. 60. 60. 60. 60. 60. 60. 60.	# of Bars 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 8.00 0 8.000 0 8.000 0 8.000 0 8.000 0 8.0000000000	Weight (plf) 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04	Weight (lbs) 63.31 63.51 7 60.65 7 60.65 7 60.65 7 60.65 7 60.65 7 7 60.65 7 7 60.65 7 7 7 60.65 7 7 7 60.65 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) 0.80 Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Length 7 Strands (ft) 3248.88 3069.19 2769.81	0.13 0.80 Veight (.53 lbz/ft) 1721 90 1637.27 1466.00
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation 10.2-B (3 E.W.) 11.2-B (3 E.W.) 11.2-C (3 E.W.) 12.2-C (3	Length (ft) 60. 60. 60. 60. 60. 60. 60. 60. 60. 60.	# of Bars 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 8.00 0 8.000 0 8.000 0 8.000 0 8.000 0 8.0000000000	Weight (plf) 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04	Weight (lbs) 63.31 63.51 7 60.65 7 60.65 7 60.65 7 60.65 7 60.65 7 7 60.65 7 7 60.65 7 7 7 60.65 7 7 7 60.65 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) 0.80 Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Length 7 Strands (ft) 3248.88 3069.19 2769.81	0.13 0.80 Veight (.53 lbz/ft) 1721.90 1637.27
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation 10.2-B (3 E.W.) 11.2-B (3 E.W.) 11.2-C (3 E.W.) 11.2-B (3 E.Y.) 10.2-C (8 E.Y.) 11.2-B (3 E.Y.) 12.2-G (5 T. & 7 #5T)	Length (ft) 60. 60. 60. 60. 60. 60. 60. 60. 60. 60.	# of Bars 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 8.00 0 8.000 0 8.000 0 8.000 0 8.000 0 8.0000000000	Weight (plf) 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04	Weight (lbs) 63.31 63.51 7 60.65 7 60.65 7 60.65 7 60.65 7 60.65 7 7 60.65 7 7 60.65 7 7 7 60.65 7 7 7 60.65 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Length 7 Strands (ft) 3248.68 3069.19 2769.81 3069.19	0.13 0.80 (veight (.53 lbs/ft) 1721.90 1637.27 1468.00 1637.27
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation 10.2-B (3 E.W.) 11.2-B (3 E.W.) 11.2-C (3 E.W.) 11.2-B (3 E.Y.) 10.2-C (8 E.Y.) 11.2-B (3 E.Y.) 12.2-G (5 T. & 7 #5T)	Length (ft) 60. 60. 60. 60. 60. 60. 60. 60. 60. 60.	# of Bars 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 8.00 0 8.000 0 8.000 0 8.000 0 8.000 0 8.0000000000	Weight (plf) 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04	Weight (lbs) 63.31 63.51 7 60.65 7 60.65 7 60.65 7 60.65 7 60.65 7 7 60.65 7 7 60.65 7 7 7 60.65 7 7 7 60.65 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) 0.80 Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Length 7 Strands (ft) 3248.88 3069.19 2769.81	0.13 0.80 Veight (.53 lbz/ft) 1721 90 1637.27 1466.00
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation 10.2-B (3 E.W.) 11.2-B (3 E.W.) 10.2-C (3 E.W.) 11.2-C (3 E.W.) 11.2-C (3 E.W.) 12-C (5 E.W.) 12-C (5 E.W.) 11.2-B (2 E.ST & 3 # ST) 11.2-C (5 E.ST & 3 # ST)	Length (ft) 60. 60. 60. 60. 60. 60. 60. 60. 60. 60.	# of Bars 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 8.00 0 8.000 0 8.000 0 8.000 0 8.000 0 8.0000000000	Weight (plf) 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04	Weight (lbs) 63.31 63.31 63.31 63.31 63.31 63.31 63.31 63.31 1602.05 1602.05 1602.05 1602.05 1602.05 1602.05 10.00 9.00 9.00 7.00	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Length 7 Strands (ft) 3248.68 3069.19 2769.81 3069.19	0.13 0.80 (veight (.53 lbs/ft) 1721.90 1637.27 1468.00 1637.27
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation 10.2-B (3 E.W.) 11.2-B (3 E.W.) 11.2-C (5 E.W.)	Length (ft) 60. 60. 60. 60. 60. 60. 60. 60. 60. 60.	# of Bars 0 6.00 0 6.00 0 6.00 0 6.00 if of Bars 0 0 8.00 width east-west (ft) 0 0 22.61 0 22.81 0 22.81 0 22.81	Weight (plf) 0 1.04 0 8.00 0 8.00 0 8.00	Weight (lbs) 63.31 63.33 63.31 63.31 63.31 Weight (lbs) 1602.05 # of Tendons east-west 10.00 9.00 7.00 9.00	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Length 7 Strands (ft) 3248.68 3069.19 2769.81 3069.19	0.13 0.80 (veight (.53 lbs/ft) 1721.90 1637.27 1468.00 1637.27
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation 10.2-B (3 E.W.) 11.2-B (3 E.W.) 10.2-C (3 E.W.) 11.2-C (3 E.W.) 10.2-C (5 E.W.) 10.2-T (11 2 and B / C 10.2-T (11 2 and B / C 11.2-B (2#5T & 9#5T) 11.2-B (2#5T & 9#5T) 11.2-C (5#5T & 7#5T) 11.2-C (5#5T & 9#5T) 11.2-C (5#5T & 9#5T) 11.2-C (5#5T & 9#5T) 11.2-C (5#5T & 9#5T)	Length (ft) 60. 60. 60. 60. 60. 60. 60. 60. 60. 60.	# of Bars 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 # of Bars 0 0 8.00 Width east-west (ft) 0 0 22.61 0 22.81 0 22.81 0 22.81 0 22.81 0 22.81 0 22.81	Weight (plf) 1.04 </td <td>Weight (lbs) 63.31 63.33 63.31 63.31 63.31 Weight (lbs) 1602.05 1602.05 1602.05 1602.05 1602.05 9.00 9.00 9.00 9.00 9.00</td> <td>Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Length 7 Strands (ft) 3248.68 3069.19 2769.81 3069.19</td> <td>0.13 0.80 (veight (.53 lbs/ft) 1721.90 1637.27 1468.00 1637.27</td>	Weight (lbs) 63.31 63.33 63.31 63.31 63.31 Weight (lbs) 1602.05 1602.05 1602.05 1602.05 1602.05 9.00 9.00 9.00 9.00 9.00	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Length 7 Strands (ft) 3248.68 3069.19 2769.81 3069.19	0.13 0.80 (veight (.53 lbs/ft) 1721.90 1637.27 1468.00 1637.27
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation 10.2-B (3 E.W.) 11.2-B (3 E.W.) 11.2-C (5 E.W.)	Length (ft) 60. 60. 60. 60. 60. 60. 60. 60. 60. 60.	# of Bars 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 # of Bars 0 0 8.00 Width east-west (ft) 0 0 22.61 0 22.81 0 22.81 0 22.81 0 22.81 0 22.81 0 22.81	Weight (plf) 1.04 </td <td>Weight (lbs) 63.31 63.33 63.31 63.31 63.31 Weight (lbs) 1602.05 # of Tendons east-west 10.00 9.00 7.00 9.00</td> <td>Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Length 7 Strands (ft) 3248.68 3069.19 2769.81 3069.19</td> <td>0.13 0.80 (veight (.53 lbs/ft) 1721.90 1637.27 1468.00 1637.27</td>	Weight (lbs) 63.31 63.33 63.31 63.31 63.31 Weight (lbs) 1602.05 # of Tendons east-west 10.00 9.00 7.00 9.00	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Length 7 Strands (ft) 3248.68 3069.19 2769.81 3069.19	0.13 0.80 (veight (.53 lbs/ft) 1721.90 1637.27 1468.00 1637.27
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation 10.2-B (3 E.W.) 11.2-B (3 E.W.) 10.2-C (3 E.W.) 11.2-C (3 E.W.) 10.2-C (5 E.W.) 10.2-T (11 2 and B / C 10.2-T (11 2 and B / C 11.2-B (2#5T & 9#5T) 11.2-B (2#5T & 9#5T) 11.2-C (5#5T & 7#5T) 11.2-C (5#5T & 9#5T) 11.2-C (5#5T & 9#5T) 11.2-C (5#5T & 9#5T) 11.2-C (5#5T & 9#5T)	Length (ft) 60. 60. 60. 60. 60. 60. 60. 60. 60. 60.	# of Bars 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 # of Bars 0 0 8.00 Width east-west (ft) 0 0 22.61 0 22.81 0 22.81 0 22.81 0 22.81 0 22.81 0 22.81	Weight (plf) 1.04 </td <td>Weight (lbs) 63.31 63.33 63.31 63.31 63.31 Weight (lbs) 1602.05 1602.05 1602.05 1602.05 1602.05 9.00 9.00 9.00 9.00 9.00</td> <td>Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Length 7 Strands (ft) 3009 2769.81 3059.19 Total Qty (03231000)</td> <td>0.13 0.80 Veight (.53 lbs/ft) 1721.90 1637.27 1466.00 1637.27 6464.44</td>	Weight (lbs) 63.31 63.33 63.31 63.31 63.31 Weight (lbs) 1602.05 1602.05 1602.05 1602.05 1602.05 9.00 9.00 9.00 9.00 9.00	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Length 7 Strands (ft) 3009 2769.81 3059.19 Total Qty (03231000)	0.13 0.80 Veight (.53 lbs/ft) 1721.90 1637.27 1466.00 1637.27 6464.44
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation 10.2-B (3 E.W.) 11.2-B (3 E.W.) 10.2-C (3 E.W.) 11.2-C (3 E.W.) 10.2-C (5 E.W.) 10.2-T (11 2 and B / C 10.2-T (11 2 and B / C 11.2-B (2#5T & 9#5T) 11.2-B (2#5T & 9#5T) 11.2-C (5#5T & 7#5T) 11.2-C (5#5T & 9#5T) 11.2-C (5#5T & 9#5T) 11.2-C (5#5T & 9#5T) 11.2-C (5#5T & 9#5T)	Length (ft) 60. 60. 60. 60. 60. 60. 60. 60. 60. 60.	# of Bars 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 # of Bars 0 0 8.00 Width east-west (ft) 0 0 22.61 0 22.81 0 22.81 0 22.81 0 22.81 0 22.81 0 22.81	Weight (plf) 1.04 </td <td>Weight (lbs) 63.31 63.33 63.31 63.31 63.31 Weight (lbs) 1602.05 1602.05 1602.05 1602.05 1602.05 9.00 9.00 9.00 9.00 9.00</td> <td>Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Length 7 Strands (ft) 3248.68 3069.19 2769.81 3069.19</td> <td>0.13 0.80 (veight (.53 lbs/ft) 1721.90 1637.27 1468.00 1637.27</td>	Weight (lbs) 63.31 63.33 63.31 63.31 63.31 Weight (lbs) 1602.05 1602.05 1602.05 1602.05 1602.05 9.00 9.00 9.00 9.00 9.00	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Length 7 Strands (ft) 3248.68 3069.19 2769.81 3069.19	0.13 0.80 (veight (.53 lbs/ft) 1721.90 1637.27 1468.00 1637.27
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation 10.2-B (3 E.W.) 11.2-B (3 E.W.) 11.2-C (3 E.W.) 11.2-C (3 E.W.) 12-C (3 E.W.) 11.2-B (3 E.W.) 12-C (3 E.W.) 11.2-C (3 E.W.) 12-C (5 E.W.) 11.2-B (4 E.Y.) 11.2-B (4 E.Y.) 11.2-B (4 E.Y.) 11.2-B (5 E.Y.) 12-C (5 E.Y.) 1	Length (ft) 60. 60. 60. 60. 60. 60. 60. 60. 60. 60.	# of Bars 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 # of Bars 0 0 8.00 Width east-west (ft) 0 0 22.61 0 22.81 0 22.81 0 22.81 0 22.81 0 22.81 0 22.81	Weight (plf) 1.04 </td <td>Weight (lbs) 63.31 63.33 63.31 63.31 63.31 Weight (lbs) 1602.05 1602.05 1602.05 1602.05 1602.05 9.00 9.00 9.00 9.00 9.00</td> <td>Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Length 7 Strands (ft) 3009 2769.81 3059.19 Total Qty (03231000)</td> <td>0.13 0.80 Veight (.53 lbs/ft) 1721.90 1637.27 1468.00 1637.27 6464.44</td>	Weight (lbs) 63.31 63.33 63.31 63.31 63.31 Weight (lbs) 1602.05 1602.05 1602.05 1602.05 1602.05 9.00 9.00 9.00 9.00 9.00	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Length 7 Strands (ft) 3009 2769.81 3059.19 Total Qty (03231000)	0.13 0.80 Veight (.53 lbs/ft) 1721.90 1637.27 1468.00 1637.27 6464.44
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation 10.2-B (3 E.W.) 11.2-B (3 E.W.) 11.2-C (3 E.W.) 10.2-C (3 E.W.) 10.2-C (3 E.W.) 10.2-C (5 F.W.) 10.2-C (5 F.W.) 11.2-B (5 F.G. & 10 # 7.D.) 11.2-B (5 F.G. & 7 # 57.D.) 11.2-C (5 # 5T & 9 # 5T.) 12-C (5 # 5T & 9 # 5T.) 10.2 / 11.2 and B / C 10.2 / 11.2 and B / C	Length (ft) 60. 60. 60. 60. 60. 60. 60. 60. 60. 60.	# of Bars 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 # of Bars 0 0 8.00 Width east-west (ft) 0 0 22.61 0 22.81 0 22.81 0 22.81 0 22.81 0 22.81 0 22.81 0 22.81 0 22.01	Weight (plf) 1.04	Weight (lbs) 63.31 63.33 63.31 63.31 63.31 63.31 1602.05 1602.05 1602.05 1602.05 1602.05 1602.05 1602.05 1000 9.00 9.00 9.00 9.00 9.00 9.00 9.00	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Length 7 Strands (ft) 3009 2769.81 3059.19 Total Qty (03231000)	0.13 0.80 Veight (.53 lbs/ft) 1721.90 1637.27 1468.00 1637.27 6464.44
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation 10.2-B (3 E.W.) 11.2-B (3 E.W.) 10.2-C (3 E.W.) 11.2-C (3 E.W.) 11.2-C (3 E.W.) 10.2-C (3 E.W.) 10.2-C (3 E.W.) 11.2-C (3 E.W.) 10.2-C (8 E.T. & 24!-0" at 3' o.c. Bottom): Bay 10.2-T (11.2 and B / C 11.2-C (8 E.T. & 7 E.T.) 12-C (8 E.T. & 7 E.T.) 12-C (8 E.T. & 7 E.T.) 13-C (8 E.T. & 7 E.T.) 13-	Length (ft) 60. 60. 60. 60. 60. 60. 60. 60. 60. 60.	# of Bars 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 Width east-west (ft) 0 0 22.61 0 22.61 0 22.61 0 2.00 0 2.00 Width (ft) 0	Weight (plf) 1.04 1.05 1.04 </td <td>Weight (lbs) 63.31 63.31 63.31 63.31 Weight (lbs) 1602.05 1602.05 1602.05 10.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 7</td> <td>Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) 0.60 Total Qty (03210250) Total Qty (03210250) Total Length 7 Strands (ft) 0.60 Total Qty (03210250) Total Qty (03231000) Total Qty (03231000)</td> <td>0.13 0.80 Veight (.53 lbs/ft) 1721.90 1637.27 1468.00 1637.27 6464.44</td>	Weight (lbs) 63.31 63.31 63.31 63.31 Weight (lbs) 1602.05 1602.05 1602.05 10.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 7	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) 0.60 Total Qty (03210250) Total Qty (03210250) Total Length 7 Strands (ft) 0.60 Total Qty (03210250) Total Qty (03231000) Total Qty (03231000)	0.13 0.80 Veight (.53 lbs/ft) 1721.90 1637.27 1468.00 1637.27 6464.44
Rebar on Top of Columns (#5, 333Lu + Column Width): Column Designation 10.2-B (3 E W.) 11.2-B (3 E W.) 11.2-C (3 E W.) 10.2-C (11.2 and B / C 11.2-C (5#5T & 10#5T) 11.2-C (5#5T & 7#5T) 11.2-C (5#5T & 9#5T) 12-C (5#5T & 9#5T) 10.2-C (11.2 and B / C 10.2-T (11.2 and B / C 10.2-T (11.2 and B / C	Length (ft) 60. 60. 60. 60. 60. 60. 60. 60. 60. 60.	# of Bars 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 Width east-west (ft) 0 0 22.61 0 22.61 0 22.61 0 2.00 0 2.00 Width (ft) 0	Weight (plf) 1.04	Weight (lbs) 63.31 63.33 63.31 63.31 63.31 63.31 1602.05 1602.05 1602.05 1602.05 1602.05 1602.05 1602.05 1000 9.00 9.00 9.00 9.00 9.00 9.00 9.00	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) 0.60 Total Qty (03210250) Total Qty (03210250) Total Length 7 Strands (ft) 0.60 Total Qty (03210250) Total Qty (03231000) Total Qty (03231000)	0.13 0.80 Veight (.53 lbs/ft) 1721.90 1637.27 1468.00 1637.27 6464.44
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation 10.2-B (3 E.W.) 11.2-B (3 E.W.) 10.2-C (3 E.W.) 11.2-C (3 E.W.) 11.2-C (3 E.W.) 10.2-C (3 E.W.) 10.2-C (3 E.W.) 11.2-C (3 E.W.) 10.2-C (8 E.T. & 24!-0" at 3' o.c. Bottom): Bay 10.2-T (11.2 and B / C Columns: Column Designation 10.2-C (8 E.ST & 9#ST) 11.2-B (8 E.ST & 9#ST) 11.2-C (8 E.ST & 9#ST) 11.2-C (8 E.ST & 9#ST) 11.2-C (8 E.ST & 9#ST) 12-C (11.2 and B / C 10.2-T (11.2 and B / C	Length (ft) 60. 60. 60. 60. 60. 60. 60. 60. 60. 60.	# of Bars 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 Width east-west (ft) 0 0 22.61 0 22.61 0 22.61 0 2.00 0 2.00 Width (ft) 0	Weight (plf) 1.04 1.05 1.04 </td <td>Weight (lbs) 63.31 63.31 63.31 63.31 Weight (lbs) 1602.05 1602.05 1602.05 10.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 7</td> <td>Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) 0.80 Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Qty (0321000) Total Qty (03231000)</td> <td>0.13 0.80 (veight (.53 lbz/ft) 1721.90 1637.27 1468.00 1637.27 6464.44 6464.44 218.89</td>	Weight (lbs) 63.31 63.31 63.31 63.31 Weight (lbs) 1602.05 1602.05 1602.05 10.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 7	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) 0.80 Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Qty (0321000) Total Qty (03231000)	0.13 0.80 (veight (.53 lbz/ft) 1721.90 1637.27 1468.00 1637.27 6464.44 6464.44 218.89
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation 10.2-B (3 E.W.) 11.2-B (3 E.W.) 10.2-C (3 E.W.) 11.2-C (3 E.W.) 11.2-C (3 E.W.) 10.2-C (3 E.W.) 10.2-C (3 E.W.) 11.2-C (3 E.W.) 10.2-C (8 E.T. & 24!-0" at 3' o.c. Bottom): Bay 10.2-T (11.2 and B / C Columns: Column Designation 10.2-C (8 E.ST & 9#ST) 11.2-B (8 E.ST & 9#ST) 11.2-C (8 E.ST & 9#ST) 11.2-C (8 E.ST & 9#ST) 11.2-C (8 E.ST & 9#ST) 12-C (11.2 and B / C 10.2-T (11.2 and B / C	Length (ft) 60. 60. 60. 60. 60. 60. 60. 60. 60. 60.	# of Bars 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 Width east-west (ft) 0 0 22.61 0 22.61 0 22.61 0 2.00 0 2.00 Width (ft) 0	Weight (plf) 1.04 1.05 1.04 </td <td>Weight (lbs) 63.31 63.31 63.31 63.31 Weight (lbs) 1602.05 1602.05 1602.05 10.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 7</td> <td>Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) 0.60 Total Qty (03210250) Total Qty (03210250) Total Length 7 Strands (ft) 0.60 Total Qty (03210250) Total Qty (03231000) Total Qty (03231000)</td> <td>0.13 0.80 Veight (.53 lbs/ft) 1721.90 1637.27 1468.00 1637.27 6464.44</td>	Weight (lbs) 63.31 63.31 63.31 63.31 Weight (lbs) 1602.05 1602.05 1602.05 10.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 7	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) 0.60 Total Qty (03210250) Total Qty (03210250) Total Length 7 Strands (ft) 0.60 Total Qty (03210250) Total Qty (03231000) Total Qty (03231000)	0.13 0.80 Veight (.53 lbs/ft) 1721.90 1637.27 1468.00 1637.27 6464.44
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation 10.2-8 (3 E.W.) 11.2-8 (3 E.W.) 11.2-6 (3 E.W.) 11.2-7 (3 E.W.) 11.2-7 (3 E.W.) 11.2-8 (3 E.W.) 11.2-8 (3 E.W.) 11.2-7 (3 E.W.) 11.2-7 (3 E.W.) 11.2-8 (3 E.W.) 11.2-8 (3 E.W.) Column State Column State Column Designation 10.2-7 (11.2 and B / C Column State Tendons on Columns; Column Designation 10.2-8 (8+57 & 10+57) 11.2-8 (8+57 & 7+57) 11.2-7 (9#57 & 9#57) 10.2-7 (11.2 and B / C Tendons in Bay; Bay 10.2/11.2 and B / C Column State Roof; Instruments Roof; State K-Joints 28K12	Length (ft) 60. 60. 60. 60. 60. 60. 60. 60. 60. 60.	# of Bars 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 Width east-west (ft) 0 0 22.61 0 22.61 0 22.61 0 2.00 0 2.00 Width (ft) 0	Weight (plf) 1.04 1.05 1.04 </td <td>Weight (lbs) 63.31 63.31 63.31 63.31 Weight (lbs) 1602.05 1602.05 1602.05 10.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 7</td> <td>Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) 0.80 Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Qty (0321000) Total Qty (03231000)</td> <td>0.13 0.50 Veight (.53 lbz/ft) 1721.90 1637.27 1466.00 1637.27 6464.44 6464.44</td>	Weight (lbs) 63.31 63.31 63.31 63.31 Weight (lbs) 1602.05 1602.05 1602.05 10.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 9.00 7.00 7	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) 0.80 Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Qty (0321000) Total Qty (03231000)	0.13 0.50 Veight (.53 lbz/ft) 1721.90 1637.27 1466.00 1637.27 6464.44 6464.44
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation 10.2-B (3 E.W.) 11.2-B (3 E.W.) 11.2-C (3 E.W.) 10.2-C (5 E.W.) 10.2-T (11.2 and B / C 11.2-B (5#5T & 9#5T) 11.2-C (5#5T & 28412 Deck	Length (ft) 60. 60. 60. 60. 60. 100. 60. 100. 60. 100. 60. 100. 60. 100. 60. 100. 60. 100. 60. 100. 60. 100. 60. 100. 60. 100. 192. 100. 29. 100. 29. 100. 29. 100. 29. 100. 29. 100. 29. 100. 29. 100. 29.	# of Bars 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 # of Bars 0 0 22.61 0 22.61 0 22.61 0 22.01 # of Tendons north-south 0 Width (ft) 0	Weight (plf) 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 8.00 1 8.00 1 8.00 1 8.00 1 8.00 1 8.00 1 8.00 1 8.00 1 8.00 1 8.00 1 8.00 1 8.00 1 9.00 1 13.00 1 1.01 1 1.02	Weight (lbs) 63.31 63.31 63.31 63.31 63.31 Weight (lbs) 1602.05 1602.05 1602.05 1602.05 1602.05 1602.05 1602.05 1602.05 1000 9.00 7.00 7	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) 0.80 Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Qty (0321000) Total Qty (03231000)	0.13 0.50 Veight (.53 lbz/ft) 1721.90 1637.27 1466.00 1637.27 6464.44 6464.44
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation 10.2-B (3 E.W.) 11.2-B (3 E.W.) 11.2-C (3 E.W.) 12-C (3 E.W.) 11.2-C (3 E.W.) 11.2-C (3 E.W.) 10.2-C (3 E.W.) 10.2-D (3 E.W.) 10.2-D (3 E.W.) 10.2-D (3 E.W.) 11.2-C (3 E.W.) 11.2-C (5 E.ST & 0 F ST) 11.2-C (5 E.ST & 0 F ST) 11.2-C (5 E.ST & 7 F ST)	Length (ft) 60. 60. 60. 60. 60. 192. 192. Length (ft) 192. Length north-south (ft) 29. 29. 29. 192. 29. 192. 29. 192. 29. 192. 29. 192. 29. 192. 29. 192. 29. 193. 29. 193. 29. 193. 29. 193. 29. 193. 29. 193. 29. 193. 29. 193. 29. 193. 29. 193. 29. 193. 29. 193. 29. 193. 29. 193. 29. 193. 29. 193. 29. 193. 29. 193. 29. 193. <td># of Bars 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 # of Bars 0 0 22.61 0 22.81 0 22.81 0 22.81 0 2.00 2.00 2.00 0 2.00 Width (ft) 0 0 0 Width (ft) 0</td> <td>Weight (plf) 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 8.00 1 8.00 1 8.00 1 413.00 1 2.00 2 2.00 2 2.00</td> <td>Weight (lbs) 63.31 63.33 63.31 63.31 Weight (lbs) 1602.05 # of Tendons east-west 10.00 9.00 7.00 9.00 Weight (53 lbs/ft) 218.89 Total Length 59.00 # of Squares over 500 Sq</td> <td>Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) 0.80 Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Qty (0321000) Total Qty (03231000)</td> <td>0.13 0.50 Veight (.53 lbz/ft) 1721.90 1637.27 1466.00 1637.27 6464.44 6464.44</td>	# of Bars 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 # of Bars 0 0 22.61 0 22.81 0 22.81 0 22.81 0 2.00 2.00 2.00 0 2.00 Width (ft) 0 0 0 Width (ft) 0	Weight (plf) 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 8.00 1 8.00 1 8.00 1 413.00 1 2.00 2 2.00 2 2.00	Weight (lbs) 63.31 63.33 63.31 63.31 Weight (lbs) 1602.05 # of Tendons east-west 10.00 9.00 7.00 9.00 Weight (53 lbs/ft) 218.89 Total Length 59.00 # of Squares over 500 Sq	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) 0.80 Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Qty (0321000) Total Qty (03231000)	0.13 0.50 Veight (.53 lbz/ft) 1721.90 1637.27 1466.00 1637.27 6464.44 6464.44
Rebar on Top of Columns (#5.333Lu + Column Width): Column Designation 10.2-B (3 E.W.) 11.2-B (3 E.W.) 11.2-C (3 E.W.) 10.2-C (5 E.W.) 10.2-T (11.2 and B / C 11.2-B (5#5T & 0#5T) 11.2-B (5#5T & 0#5T) 11.2-C (5#5T & 7#5T) 11.2-C (5#5T & 0#5T)	Length (ft) 60. 60. 60. 60. 60. 100. 60. 100. 60. 100. 60. 100. 60. 100. 60. 100. 60. 100. 60. 100. 60. 100. 60. 100. 60. 100. 192. 100. 29. 100. 29. 100. 29. 100. 29. 100. 29. 100. 29. 100. 29. 100. 29.	# of Bars 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 # of Bars 0 0 22.61 0 22.81 0 22.81 0 22.81 0 2.00 2.00 2.00 0 2.00 Width (ft) 0 0 0 Width (ft) 0	Weight (plf) 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 8.00 1 8.00 1 8.00 1 413.00 1 2.00 2 2.00 2 2.00	Weight (lbs) 63.31 63.31 63.31 63.31 63.31 Weight (lbs) 1602.05 1602.05 1602.05 1602.05 1602.05 1602.05 1602.05 1602.05 1000 9.00 7.00 7	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) 0.80 Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Qty (0321000) Total Qty (03231000)	0.13 0.50 Veight (.53 lbs/ft) 1721.90 1637.27 1466.00 1637.27 6464.44 218.89
Rebar on Top of Columns (#5_333Lu + Column Width): Column Designation 10.2-B (3 E.W.) 11.2-B (3 E.W.) 11.2-C (3 E.W.) 10.2-C (3 E.W.) 10.2-D (5 E.S.T & 10#5T) 11.2-B (5 E.S.T & 7 #5T) 11.2-C (5 E.S.T & 7 #5T) 11.2-B (5 E.S.T & 7 #5T) 11.2-B (5 E.S.T & 7 #5T) 11.2-C (5 E.S.T & 7 #5T) 11.2-C (5 E.S.T & 7 #5T) 11.2-C (5 E.S.T & 7 #5T) 11.2-B (5 E.S.T & 7 #	Length (ft) 60. 60. 60. 60. 60. 192. 192. Length (ft) 192. Length north-south (ft) 29. 29. 29. 192. 29. 192. 29. 192. 29. 192. 29. 192. 29. 192. 29. 192. 29. 193. 29. 193. 29. 193. 29. 193. 29. 193. 29. 193. 29. 193. 29. 193. 29. 193. 29. 193. 29. 193. 29. 193. 29. 193. 29. 193. 29. 193. 29. 193. 29. 193. 29. 193. 29. 193. <td># of Bars 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 # of Bars 0 0 22.61 0 22.81 0 22.81 0 22.81 0 2.00 2.00 2.00 0 2.00 Width (ft) 0 0 0 Width (ft) 0</td> <td>Weight (plf) 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 8.00 1 8.00 1 8.00 1 413.00 1 2.00 2 2.00 2 2.00</td> <td>Weight (lbs) 63.31 63.33 63.31 63.31 Weight (lbs) 1602.05 # of Tendons east-west 10.00 9.00 7.00 9.00 Weight (53 lbs/ft) 218.89 Total Length 59.00 # of Squares over 500 Sq</td> <td>Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) 0.80 Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Qty (0321000) Total Qty (03231000)</td> <td>0.13 0.50 Veight (.53 lbs/ft) 1721.90 1637.27 1466.00 1637.27 6464.44 218.89</td>	# of Bars 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 0 6.00 # of Bars 0 0 22.61 0 22.81 0 22.81 0 22.81 0 2.00 2.00 2.00 0 2.00 Width (ft) 0 0 0 Width (ft) 0	Weight (plf) 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 1.04 0 8.00 1 8.00 1 8.00 1 413.00 1 2.00 2 2.00 2 2.00	Weight (lbs) 63.31 63.33 63.31 63.31 Weight (lbs) 1602.05 # of Tendons east-west 10.00 9.00 7.00 9.00 Weight (53 lbs/ft) 218.89 Total Length 59.00 # of Squares over 500 Sq	Total Qty (03301950) Weight (tons) 0.03 0.03 0.03 0.03 Total Qty (03210250) Weight (tons) 0.80 Total Qty (03210250) Total Qty (03210250) Total Qty (03210250) Total Qty (0321000) Total Qty (03231000)	0.13 0.50 Veight (.53 lbs/ft) 1721.90 1637.27 1466.00 1637.27 6464.44 218.89

8 | P a g e Ingleside at King Farm Rockville, MD

Joseph Podwats – Construction Management Option Penn State Architectural Engineering Senior Thesis http://www.engr.psu.edu/ae/thesis/portfolios/2009/jmp5051

0330	Cast-In-Place Concrete	Qty		Unit Price	Total	
	3850 Footings, Spread Over 5 CY		63.98	\$230.83		
	0920 24" x 24", minimum reinforcing		13.45	\$887.50		
	1950 Elevated Slabs, flat slab with drops, 125 psf Sup-Load 30' Span		36.48	\$445.75	\$16,260.96	
				0330 Cast-In-Place Concrete		\$42,966.34
0321	Reinforcing Steel	Qty		Unit Price	Total	
	0300 Galvanized Reinforcing #6 or over		2.57	\$735.00	\$1,888.95	
	0250 Galvanized Reinforcing #5		2.22	\$735.00	\$1,631.70	
				0321 Reinforcing Steel		\$3,520.65
0331	Structural Concrete	Qty		Unit Price	Total	
	4400 Slab on Grade, up to 6" thick, crane and bucket	~,	10.39	\$32.30		
				0331 Structural Concrete		\$335.60
0335	Concrete Finishing	Qtty		Unit Price	Total	
	0350 Power screed, bull float, machine float & trowel (ride-on)		672.97	\$0.27	\$181.70	
				0335 Concrete Finishing		\$181.70
0322	Welded Wire Fabric Reinforcing	Qty		Unit Price	Total	
	0300 6 x 6 - W2.9 x W2.9 (6 x 6) 42 lb per ICSF		6.73	\$43.50	\$292.76	
				0222 Waldad Wite Falster Bailete		¢202.74
				0322 Welded Wire Fabric Reinfo	rcing	\$292.76
0323	Stressing Tendons	Qty		Unit Price	Total	
	1000 75' span, 42 kip		13366.66	\$1.74	\$23,257.99	
				0323 Stressing Tendons		\$23,257.99
0521	Steel Joist Framing	Qty		Unit Price	Total	
0.001	0680 28K12, 17.1 Ib/LF	any	59.00			
	eeee contat, an anger		22.00	<i>q</i> 2-1.27		
		l		0521 Steel Joist Framing		\$877.3
0531	See Device	0		Units Brites	T-s-l	
0331	Steel Decking	Qty		Unit Price	Total	
	2700 Roof Decking Over 500 Squares		6.73	\$1.71		
					\$0.00	
				0531 Steel Decking		\$11.51
				and a real pressing		

Total Detailed Structural Estimate Bay 10.2 / 11.2 and B / C \$71,443.87

Total SF Method	
SF per Bay	5383.76
Cost Per SF	\$13.27
Total SF	677,559
Total Cost	\$8,991,380.83

General Information about Post Tension Tendons:

Strand Type		0.5" (13 mm)	0.6" (15 mm)	
Nominal diameter	inch	0.5	0.6	
Nominal area	inch ²	0.153	0.217	
Nominal weight/mass	lbs/ft	0.53	0.74	
Tensile strength	ksi	270	270	
Min. breaking load	kips	41.3	58.6	
Young's modulus	ksi	аррюх. 28,500		
Relaxation	%	max	(2.5	

Figure 4: VSL Strand Properties

(VStructural, 2008)

Strands Type 0.5" (270 ksi)						
Number of Strands Per Tendon	Area of tendon inch ²	Min breaking Icad kips				
1	0.15	41.3				
2	0.31	82.6				
3	0.46	123.9				
4	0.61	165.2				
5	0.77	206.5				
6	0.92	247.8				
7	1.07	289.1				

Figure 5: VSL Tendon Properties

General Conditions Estimate

The General Conditions Estimate (GCE) includes costing for all team members in the previously submitted CM project team directory except for the Project Executive, the GC Accountant, and the GC Estimator. They will have time spent on the project, but it will not be billed directly to the project. Another item that will not appear in the GCE are the tower cranes since they are used primarily for the concrete superstructure. The scaffolding is another item that falls under a subcontractor estimate so it will not appear in the GCE. Commissioning will be more feasible if done by a separate commissioning agent, especially since the owner is pursuing LEED Certification, therefore; the commissioning is also excluded from the GCE.

Cost savings is the underlying goal in developing the GCE. There are many opportunities to cut costs in general conditions, especially with larger projects. One area of potential savings is the purchase of major temporary facilities for projects with long durations. Another potential for savings is a reduction of site fencing length by enclosing a smaller area. Time on a project for the staff does not usually allow for any savings and is the largest percentage of the general conditions cost.

A total cost of \$5,107,355.09 is estimated for the general conditions on this project. See tables below for more information. Quantity take-offs are listed first, then the estimate is listed second, and then the Staff Monitor is listed last.

Site Trailers:					
Trailer Units					
	Mantha				1
Trailer Designation	Months				
Trailer 1	23.00				
Trailer 2	23.00				
Trailer 3	23.00				
Trailer 4	23.00				
Trailer 5	23.00				
				Total Qty (015213.200350)	115.00
Air Conditioning					
Trailer Designation	Months				
Trailer 1	23.00				
Trailer 2	23.00				
Trailer 3	23.00				
Trailer 4	23.00				
Trailer 5	23.00				
				Total Qty (015213.200700)	115.00
Storage Boxes	-			FF	
Box Designation	Months	Qty			
20' x 8' Boxes	23.00				
20 X 0 DOXES	25.00	0.00			
				Tatal Or Josephia and and	
				Total Qty (015213.201200)	184.00
P. 11.0.17					1
Field Office Expense		-			
Expense Designation	Months	Qty			
Office Equipment	26.00	5.00			
				Total Qty (015213.400100)	130.00
	Months	Qty			
Office Supplies	26.00				
				Total Qty (015213.400120)	130.00
				10001 Q.((020220):000120)	150100
Temporary Hoists:					
Weekly Forklift Crew					
Weeki, Polanteeree	Months	Qty			
All terrain forklift, 45' lift, 35' reach, 9,000 lb capacity	23.00				
All terrain forklift, 45 fift, 55 reach, 9,000 16 capacity	23.00	2.00			
				T . 10. (01510100)	
				Total Qty (01510100)	46.00
Temporary Barriers and Enclosures:					
Temporary Barriers and Enclosures: Temporary Fencing					
Temporary Fencing	Perimeter	Oty			
	Perimeter 2925.00				
Temporary Fencing					
Temporary Fencing				Total Qty (0156260200)	5850.00
Temporary Fencing				Total Qty (0156260200)	5850.00
Temporary Fencing				Total Qty (0156260200)	5850.00
Temporary Fencing				Total Qty (0156260200)	5850.00
Temporary Fencing				Total Qty (0156260200)	5850.00
Temporary Fencing				Total Qty (0156260200)	5850.00
Temporary Fencing				Total Qty (0156260200)	5850.00
Temporary Fencing Rented Chain Link 6' High over 1,000' (up to 12 months)				Total Qty (0156260200)	5850.00
Temporary Fencing Rented Chain Link 6' High over 1,000' (up to 12 months)				Total Qty (0156260200)	5850.00
<u>Temporary Fencing</u> Rented Chain Link 6' High over 1,000' (up to 12 months) Proposed Building: Heat	2925.00	2.00	Waake	Total Qty (0156260200)	5850.00
Temporary Fencing Rented Chain Link 6' High over 1,000' (up to 12 months) Proposed Building: Heat Proposed Building:	2925.00	2.00	Weeks 21.65	Total Qty (0156260200)	5850.00
<u>Temporary Fencing</u> Rented Chain Link 6' High over 1,000' (up to 12 months) Proposed Building: Heat	2925.00	2.00		Total Qty (0156260200)	5850.00
Temporary Fencing Rented Chain Link 6' High over 1,000' (up to 12 months) Proposed Building: Heat Proposed Building:	2925.00	2.00		Image:	
Temporary Fencing Rented Chain Link 6' High over 1,000' (up to 12 months) Proposed Building: Heat Proposed Building:	2925.00	2.00		Total Qty (0156260200)	5850.00
Temporary Fencing Rented Chain Link 6' High over 1,000' (up to 12 months) Proposed Building: Heat Proposed Building: > months of heating required	2925.00	2.00		Image:	
Temporary Fencing Rented Chain Link 6' High over 1,000' (up to 12 months) Proposed Building: Heat Proposed Building: > months of heating required Lighting	2925.00	2.00		Image:	
Temporary Fencing Rented Chain Link 6' High over 1,000' (up to 12 months) Proposed Building: Heat Proposed Building: > months of heating required Lighting Proposed Building:	Area (SF) Area (SF)	2.00 Area (CSF) 6775.59 Area (CSF)		Image:	
Temporary Fencing Rented Chain Link 6' High over 1,000' (up to 12 months) Proposed Building: Heat Proposed Building: > months of heating required Lighting	2925.00	2.00 Area (CSF) 6775.59 Area (CSF)		Image:	
Temporary Fencing Rented Chain Link 6' High over 1,000' (up to 12 months) Proposed Building: Heat Proposed Building: > months of heating required Lighting Proposed Building:	Area (SF) Area (SF)	2.00 Area (CSF) 6775.59 Area (CSF)		Total Qty (01510100)	146691.52
Temporary Fencing Rented Chain Link 6' High over 1,000' (up to 12 months) Proposed Building: Heat Proposed Building: > months of heating required Lighting Proposed Building:	Area (SF) Area (SF)	2.00 Area (CSF) 6775.59 Area (CSF)		Image:	
Temporary Fencing Rented Chain Link 6' High over 1,000' (up to 12 months) Proposed Chain Link 6' High over 1,000' (up to 12 months) Proposed Building:	Area (SF) Area (SF)	2.00 Area (CSF) 6775.59 Area (CSF)		Total Qty (01510100)	146691.52
Temporary Fencing Rented Chain Link 6' High over 1,000' (up to 12 months) Proposed Building: Heat Proposed Building: > months of heating required Lighting Proposed Building:	Area (SF) Area (SF)	2.00 Area (CSF) 6775.59 Area (CSF)		Total Qty (01510100)	146691.52
Temporary Fencing Rented Chain Link 6' High over 1,000' (up to 12 months) Proposed Chain Link 6' High over 1,000' (up to 12 months) Proposed Building: Proposed Building: > months of heating required Lighting Proposed Building: 3 months of lighting required Water Proposed Building:	2925.00	2.00 Area (CSF) 6775.59 Area (CSF) 6775.59		Total Qty (01510100)	146691.52
Temporary Fencing Rented Chain Link 6' High over 1,000' (up to 12 months) Proposed Building: Heat Proposed Building: > months of heating required Lighting Proposed Building: 3 months of lighting required Water	2925.00	2.00 Area (CSF) 6775.59 Area (CSF) 6775.59		Total Qty (01510100)	146691.52
Temporary Fencing Rented Chain Link 6' High over 1,000' (up to 12 months) Proposed Chain Link 6' High over 1,000' (up to 12 months) Proposed Building: Proposed Building: > months of heating required Lighting Proposed Building: 3 months of lighting required Water Proposed Building:	2925.00	2.00 Area (CSF) 6775.59 Area (CSF) 6775.59		Total Qty (01510100)	146691.52
Temporary Fencing Rented Chain Link 6' High over 1,000' (up to 12 months) Proposed Chain Link 6' High over 1,000' (up to 12 months) Proposed Building: Proposed Building: > months of heating required Lighting Proposed Building: 3 months of lighting required Water Proposed Building:	2925.00	2.00 Area (CSF) 6775.59 Area (CSF) 6775.59			6775.59
Temporary Fencing Rented Chain Link 6' High over 1,000' (up to 12 months) Proposed Chain Link 6' High over 1,000' (up to 12 months) Proposed Building: Proposed Building: > months of heating required Lighting Proposed Building: 3 months of lighting required Water Proposed Building:	2925.00	2.00 Area (CSF) 6775.59 Area (CSF) 6775.59		Total Qty (01510100)	146691.52
Temporary Fencing Rented Chain Link 6' High over 1,000' (up to 12 months) Proposed Chain Link 6' High over 1,000' (up to 12 months) Proposed Building: Description Description Lighting Proposed Building: Description Dimension of lighting required Water Proposed Building: 2 5 months of water required	2925.00	2.00 Area (CSF) 6775.59 Area (CSF) 6775.59			6775.59
Temporary Fencing Rented Chain Link 6' High over 1,000' (up to 12 months) Proposed Chain Link 6' High over 1,000' (up to 12 months) Proposed Building: Heat Proposed Building: > months of heating required Lighting Proposed Building: > months of highting required Water Proposed Building: 22 S months of water required Cleanup	2925.00	2.00 Area (CSF) 6775.59 Area (CSF) 6775.59			6775.59
Temporary Fencing Rented Chain Link 6' High over 1,000' (up to 12 months) Proposed Building: Heat Proposed Building: > months of heating required Lighting Proposed Building: > months of highting required Water Proposed Building: 2 5 months of highting: 2 5 months of water required Cleanup Proposed Building:	2925.00 Area (SF)	2.00 Area (CSF) 6775.59 Area (CSF) 6775.59 Area (MSF)	21.65		6775.59
Temporary Fencing Rented Chain Link 6' High over 1,000' (up to 12 months) Proposed Chain Link 6' High over 1,000' (up to 12 months) Proposed Building: Heat Proposed Building: > months of heating required Lighting Proposed Building: > months of highting required Water Proposed Building: 22 S months of water required Cleanup	2925.00	2.00 Area (CSF) 6775.59 Area (CSF) 6775.59 Area (MSF)	21.65		6775.59
Temporary Fencing Rented Chain Link 6' High over 1,000' (up to 12 months) Proposed Building: Heat Proposed Building: > months of heating required Lighting Proposed Building: > months of highting required Water Proposed Building: 2 5 months of highting: 2 5 months of water required Cleanup Proposed Building:	2925.00 Area (SF)	2.00 Area (CSF) 6775.59 Area (CSF) 6775.59 Area (MSF)	21.65		6775.59
Temporary Fencing Rented Chain Link 6' High over 1,000' (up to 12 months) Proposed Building: Heat Proposed Building: > months of heating required Lighting Proposed Building: > months of highting required Water Proposed Building: 2 5 months of highting: 2 5 months of water required Cleanup Proposed Building:	2925.00 Area (SF)	2.00 Area (CSF) 6775.59 Area (CSF) 6775.59 Area (MSF)	21.65		6775.59
Temporary Fencing Rented Chain Link 6' High over 1,000' (up to 12 months) Proposed Building: Proposed Building: > months of heating required Lighting Proposed Building: > months of heating required Water Proposed Building: 2 S months of lighting required Water Proposed Building: 2 S months of water required Cleanup Proposed Building: Cleanup Proposed Building:	2925.00 Area (SF) 677559.00 Area (SF)	2.00 Area (CSF) 6775.59 Area (CSF) 6775.59 Area (MSF) 677.56	21.65		6775.59
Temporary Fencing Rented Chain Link 6' High over 1,000' (up to 12 months) Proposed Chain Link 6' High over 1,000' (up to 12 months) Proposed Building: > months of heating required Lighting Proposed Building: 3 months of lighting required Water Proposed Building: 2 5 months of water required Cleanup Proposed Building: Cleanup cf floor area, continuous per day, during construct, Proposed Building:	2925.00 Area (SF) 677559.00 Area (SF) 677559.00 Area (SF) 677559.00 Area (SF) Area (SF) Area (SF) Area (SF) Area (SF) Area (SF)	2.00 Area (CSF) 6775.59 Area (CSF) 6775.59 Area (MSF) 6775.59 Area (MSF) Area (MSF)	21.65		6775.59
Temporary Fencing Rented Chain Link 6' High over 1,000' (up to 12 months) Proposed Building: Proposed Building: > months of heating required Lighting Proposed Building: > months of heating required Water Proposed Building: 2 S months of lighting required Water Proposed Building: 2 S months of water required Cleanup Proposed Building: Cleanup Proposed Building:	2925.00 Area (SF) 677559.00 Area (SF)	2.00 Area (CSF) 6775.59 Area (CSF) 6775.59 Area (MSF) 6775.59 Area (MSF) Area (MSF)	21.65		6775.59
Temporary Fencing Rented Chain Link 6' High over 1,000' (up to 12 months) Proposed Chain Link 6' High over 1,000' (up to 12 months) Proposed Building: > months of heating required Lighting Proposed Building: 3 months of lighting required Water Proposed Building: 2 5 months of water required Cleanup Proposed Building: Cleanup cf floor area, continuous per day, during construct, Proposed Building:	2925.00 Area (SF) 677559.00 Area (SF) 677559.00 Area (SF) 677559.00 Area (SF) Area (SF) Area (SF) Area (SF) Area (SF) Area (SF)	2.00 Area (CSF) 6775.59 Area (CSF) 6775.59 Area (MSF) 6775.59 Area (MSF) Area (MSF)	21.65	Image: Control of the second secon	6775.59
Temporary Fencing Rented Chain Link 6' High over 1,000' (up to 12 months) Proposed Building: Proposed Building: > months of heating required Lighting Proposed Building: 3 months of lighting required Water Proposed Building: 22 5 months of water required Cleanup Proposed Building:	2925.00 Area (SF) 677559.00 Area (SF) 677559.00 Area (SF) 677559.00 Area (SF) Area (SF) Area (SF) Area (SF) Area (SF) Area (SF)	2.00 Area (CSF) 6775.59 Area (CSF) 6775.59 Area (MSF) 6775.59 Area (MSF) Area (MSF)	21.65		6775.59

0131					
	Project Management and Coordination	Qty	Unit Price	Total	
	0220 Project Manager Field (PM maximum)	98.94	\$2,100.00	\$207,775.05	
	0220 Project Manager Engineering (PM maximum)	100.67	\$2,100.00	\$211,412.25	
	0200 GC-MEP Peer Review (PM average)	3.92	\$1,850.00	\$7,249.50	
	0280 Lead Superintendent (Sup. maximum)	97.53	\$1,950.00	\$190,189.84	
	0260 Superintendent (Sup. average)	97.43	\$1,700.00	\$165,622.50	
	0260 Exteriors Superintendent (Sup. average)	97.43	\$1,700.00	\$165,622.50	
	0260 Interiors Superintendent (Sup. average)	97.43	\$1,700.00	\$165,622.50	
	0260 MEP Superintendent (Qty 2) (Sup. average)	194.85	\$1,700.00	\$331,245.00	
	0120 Project Engineer (Eng. average)	98.29	\$1,125.00	\$110,577.38	
	0120 MEP Engineer (Eng. average)	3.92	\$1,125.00	\$4,408.48	
	0120 Interiors Engineer (Eng. average)	8.55	\$1,125.00	\$9,620.72	
	0100 Field Engineer (Qty 4) (Eng. minimum)	391.87	\$1,125.00	\$338,963.23	
	0100 Heid Engineer (Q(y 4) (Eng. minimum)	591.67	3003.00	\$356,903.25	
			e-based ex	ti 000 000 0	
			Subtotal-01	\$1,908,308.94	
			Burden at % 25	\$477,077.24	
			0131 Project Management	and Coordination	\$2,385,386.
15343	20 Sield Officer and Shade	Ot:	Linit Drine	Tatal	
15213.	20 Field Offices and Sheds	Qty	Unit Price	Total	
	0300 Trailer, furnished, no hookups, 32' x 8' Rent (5)	115.00	\$241.00	\$27,715.00	
	0700 Air Conditioning	115.00	\$41.00	\$4,715.00	
	1200 Storage Boxes	184.00	\$73.50	\$13,524.00	
			015213.20 Field Offices an	d Sheds	\$45,954.
15213.	40 Field Office Expense	Qty		Total	
	0100 Office equipment rental average	130.00	\$150.00	\$19,500.00	
	0120 Office Supplies, average	130.00	\$95.00	\$12,350.00	
	0140 Telephones (1 per trailer + 1 fax)	6.00	\$210.00	\$1,260.00	
			output to sight office the		633.440.4
			015213.40 Field Office Exp	ense	\$33,110.0
154	Construction Aids	Otv	Unit Price	Total	
154	Construction Aids	Qty 45.00	Unit Price	Total \$169.050.00	
154	Construction Aids 0100 Weekly Forklift Crew	Qty 46.00	Unit Price \$3,675.00	Total \$169,050.00	
154			\$3,675.00		\$169.050
154					\$169,050.
	0100 Weekly Forklift Crew	46.00	\$3,675.00 0154 Construction Aids	\$169,050.00	\$169,050.
	0100 Weekly Forklift Crew Temporary Barriers and Enclosures	45.00 Qty	\$3,675.00 0154 Construction Aids Unit Price	\$169,050.00 Total	\$169,050.
	0100 Weekly Forklift Crew	46.00	\$3,675.00 0154 Construction Aids	\$169,050.00	\$169,050.
	0100 Weekly Forklift Crew Temporary Barriers and Enclosures	45.00 Qty	\$3,675.00 0154 Construction Aids Unit Price \$3.58	\$169,050.00 Total \$20,943.00	
	0100 Weekly Forklift Crew Temporary Barriers and Enclosures	45.00 Qty	\$3,675.00 0154 Construction Aids Unit Price	\$169,050.00 Total \$20,943.00	
156	0100 Weekly Forklift Crew Temporary Barriers and Enclosures 0250 Rented Chain Link Fence	46.00 Qty 5850.00	\$3,675.00 0154 Construction Aids Unit Price \$3.58 0156 Temporary Barriers a	\$169,050.00 Total \$20,943.00 ind Enclosures	
0154	0100 Weekly Forklift Crew Temporary Barriers and Enclosures 0250 Rented Chain Link Fence Cleaning and Waste Management	46.00 Qty 5850.00 Qty	\$3,675.00 0154 Construction Aids Unit Price \$3.58 0156 Temporary Barriers a Unit Price	\$169,050.00 Total \$20,943.00 ind Enclosures Total	\$169,050.1 \$20,943.1
156	0100 Weekly Forklift Crew Temporary Barriers and Enclosures 0250 Rented Chain Link Fence Cleaning and Waste Management 0052 Cleanup of floor area, continuous, during construction	Qty 5850.00	\$3,675.00 0154 Construction Aids Unit Price \$3.58 0156 Temporary Barriers a Unit Price \$38.50	\$169,050.00 Total \$20,943.00 Ind Enclosures Total \$26,086.06	
156	0100 Weekly Forklift Crew Temporary Barriers and Enclosures 0250 Rented Chain Link Fence Cleaning and Waste Management	46.00 Qty 5850.00 Qty	\$3,675.00 0154 Construction Aids Unit Price \$3.58 0156 Temporary Barriers a Unit Price	\$169,050.00 Total \$20,943.00 ind Enclosures Total	
156	0100 Weekly Forklift Crew Temporary Barriers and Enclosures 0250 Rented Chain Link Fence Cleaning and Waste Management 0052 Cleanup of floor area, continuous, during construction	Qty 5850.00	\$3,675.00 0154 Construction Aids Unit Price \$3.58 0156 Temporary Barriers a Unit Price \$38.50 \$53.61	\$169,050.00 Total \$20,943.00 ind Enclosures Total \$26,086.06 \$36,323.99	\$20,943.
156	0100 Weekly Forklift Crew Temporary Barriers and Enclosures 0250 Rented Chain Link Fence Cleaning and Waste Management 0052 Cleanup of floor area, continuous, during construction	Qty 5850.00	\$3,675.00 0154 Construction Aids Unit Price \$3.58 0156 Temporary Barriers a Unit Price \$38.50	\$169,050.00 Total \$20,943.00 ind Enclosures Total \$26,086.06 \$36,323.99	
156	0100 Weekly Forklift Crew Temporary Barriers and Enclosures 0250 Rented Chain Link Fence Cleaning and Waste Management 0052 Cleanup of floor area, continuous, during construction	Qty 5850.00 Qty 677.56 677.56	\$3,675.00 0154 Construction Aids Unit Price \$3.58 0156 Temporary Barriers a Unit Price \$38.50 \$53.61	\$169,050.00 Total \$20,943.00 ind Enclosures Total \$26,086.06 \$36,323.99	\$20,943
156	0100 Weekly Forklift Crew Temporary Barriers and Enclosures 0250 Rented Chain Link Fence Cleaning and Waste Management 0052 Cleanup of floor area, continuous, during construction 0100 Final cleanup by GC at end of job Temporary Utilities	Qty 5850.00	\$3,675.00 0154 Construction Aids Unit Price \$3.58 0156 Temporary Barriers a Unit Price \$38.50 \$53.61 0174 Cleaning and Waste I Unit Price	\$169,050.00 Total \$20,943.00 ind Enclosures Total \$26,086.06 \$36,323.99 Management Total	\$20,943
156	0100 Weekly Forklift Crew Temporary Barriers and Enclosures 0250 Rented Chain Link Fence Cleaning and Waste Management 0052 Cleanup of floor area, continuous, during construction 0100 Final cleanup by GC at end of job Temporary Utilities 0100 Temporary Heat	Qty 5850.00 Qty 677.56 677.56 077.5 077.57 077.5 077.5 077.5 077.5 077.5 077.5 077.5 077.5 07	\$3,675.00 0154 Construction Aids Unit Price \$3.58 0156 Temporary Barriers a Unit Price \$38.50 \$53.61 0174 Cleaning and Waste I Unit Price \$13.50	\$169,050.00 Total \$20,943.00 Ind Enclosures Total \$26,086.06 \$36,323.99 Management Total \$1,980,335.52	\$20,943.
156	0100 Weekly Forklift Crew Temporary Barriers and Enclosures 0250 Rented Chain Link Fence Cleaning and Waste Management 0052 Cleanup of floor area, continuous, during construction 0100 Final cleanup by GC at end of job Temporary Utilities 0100 Temporary Heat 0350 Lighting including service lamps, wiring & outlets	Qty 5850.00 Qty 677.56 677.56 077.56 075.59 0ty 146691.52 6775.59	\$3,675.00 0154 Construction Aids Unit Price \$3.58 0156 Temporary Barriers a Unit Price \$38.50 \$53.61 0174 Cleaning and Waste I Unit Price \$13.50 \$13.33	\$169,050.00 Total \$20,943.00 ind Enclosures Total \$26,086.06 \$36,323.99 Management Total \$1,980,335.52 \$90,318.61	\$20,943
156	0100 Weekly Forklift Crew Temporary Barriers and Enclosures 0250 Rented Chain Link Fence Cleaning and Waste Management 0052 Cleanup of floor area, continuous, during construction 0100 Final cleanup by GC at end of job Temporary Utilities 0100 Temporary Heat 0350 Lighting including service lamps, wiring & outlets 0600 Power for job duration incl. elevator, etc.	Qty 5850.00 Qty 677.56 Qty 677.56 Qty 677.56 Qty 146691.52 6775.59 6775.59	\$3,675.00 0154 Construction Aids Unit Price \$3.58 0156 Temporary Barriers a Unit Price \$38.50 \$53.61 0174 Cleaning and Waste I Unit Price \$13.50 \$13.33 \$47.00	\$169,050.00 Total \$20,943.00 ind Enclosures Total \$26,086.06 \$36,323.99 Management Total \$1,980,335.52 \$90,318.61 \$318,452.73	\$20,943
156	0100 Weekly Forklift Crew Temporary Barriers and Enclosures 0250 Rented Chain Link Fence Cleaning and Waste Management 0052 Cleanup of floor area, continuous, during construction 0100 Final cleanup by GC at end of job Temporary Utilities 0100 Temporary Heat 0350 Lighting including service lamps, wiring & outlets	Qty 5850.00 Qty 677.56 677.56 077.56 075.59 0ty 146691.52 6775.59	\$3,675.00 0154 Construction Aids Unit Price \$3.58 0156 Temporary Barriers a Unit Price \$38.50 \$53.61 0174 Cleaning and Waste I Unit Price \$13.50 \$13.33	\$169,050.00 Total \$20,943.00 ind Enclosures Total \$26,086.06 \$36,323.99 Management Total \$1,980,335.52 \$90,318.61	\$20,943
156	0100 Weekly Forklift Crew Temporary Barriers and Enclosures 0250 Rented Chain Link Fence Cleaning and Waste Management 0052 Cleanup of floor area, continuous, during construction 0100 Final cleanup by GC at end of job Temporary Utilities 0100 Temporary Heat 0350 Lighting including service lamps, wiring & outlets 0600 Power for job duration incl. elevator, etc.	Qty 5850.00 Qty 677.56 Qty 677.56 Qty 146691.52 6775.59 6775.59 6775.59 22.50	\$3,675.00 0154 Construction Aids Unit Price \$3.58 0156 Temporary Barriers a Unit Price \$38.50 \$53.61 0174 Cleaning and Waste I Unit Price \$13.50 \$13.33 \$47.00 \$62.00	\$169,050.00 Total \$20,943.00 ind Enclosures Total \$26,086.06 \$36,323.99 Management Total \$1,980,335.52 \$90,318.61 \$318,452.73 \$1,395.00 \$1,395.00 \$ }	\$20,943. \$62,410.
156	0100 Weekly Forklift Crew Temporary Barriers and Enclosures 0250 Rented Chain Link Fence Cleaning and Waste Management 0052 Cleanup of floor area, continuous, during construction 0100 Final cleanup by GC at end of job Temporary Utilities 0100 Temporary Heat 0350 Lighting including service lamps, wiring & outlets 0600 Power for job duration incl. elevator, etc.	Qty 5850.00 Qty 677.56 Qty 677.56 Qty 146691.52 6775.59 6775.59 6775.59 22.50	\$3,675.00 0154 Construction Aids Unit Price \$3.58 0156 Temporary Barriers a Unit Price \$38.50 \$53.61 0174 Cleaning and Waste I Unit Price \$13.50 \$13.33 \$47.00	\$169,050.00 Total \$20,943.00 ind Enclosures Total \$26,086.06 \$36,323.99 Management Total \$1,980,335.52 \$90,318.61 \$318,452.73 \$1,395.00 \$1,395.00 \$ }	\$20,943.

A Staff Monitor is a representation of the approximate percentage of time each team member is devoting to the project at any point during the project; the costs are reflected in the *0131 Project Management and Coordination* in the above estimate. In most cases, the general rule of thumb is that the team members spend virtually 100% of their time on the project during construction. Project Executives and Superintendents are an exception to this rule in that they devote a very small amount of time, if any, to the project during preconstruction. As the project approaches construction start, their devotion ramps up.

Projects of this magnitude offer plenty of tasks and usually demand full devotion from the PM's, Superintendents, and Field Engineers during construction. Positions such as the GC MEP Peer Review, for example, require more focus during preconstruction and then again during the MEP phases of construction. See the staff monitor for more information (full size attached in appendices).

																			0.01									
	Prei	constructio	n (Starts N Ionth Nun		1, 2005											Construct	Month Nu	March 15, 20	07)									
	1 Nov 06		3 Jan 07		4.5 Mar 07	4.5 Mar 07	S Apr 07	6 May 07	7 June 107	8 Jul 07	9 Aug 07	10 Sep 07	11 Oct 07	12 Nov 07	13 Dec 07	14 Jan 08	15 Feb 08		17 Apr 08	18 May 08	19 June 08	20 Jul 08	21 Aug 08	22 Sep 08	23 Oct 08	24 Now 08	25 Dec 08	26 Jan 09
Project Executive:	10%	10%	10%	10%	15%	15%	10%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
Project Manager field:	0%	0%	0%	20%	30%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Project Manager Engineering:	10%	10%	20%	20%	30%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
GC-MEP Peer Review:	0%	0%	20%	20%	10%	5%	0%	0%	0%	6%	5%	10%	10%	2%	2%	2%	2%	2%	2%	2%	2%	2%	0%	0%	0%	0%	0%	0%
GE Accountant:	0%	0%	0%	6%	5%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	1.00%	100%	100%	100%	100%
GC Estimator:	20%	20%	20%	20%	20%	0%	0%	0%	0%	6%	0%	6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Lead Superintendent:	0%	0%	0%	0%	5%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Superintendent:	0%	0%	0%	0%	0%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Exteriors Superintendent:	0%	0%	0%	0%	0%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Interiors Superintendent:	0%	0%	0%	0%	0%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
MEP Superintendent.	0%	0%	0%	0%	0%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
MEP Superintendent:	0%	0%	0%	0%	0%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Project Engineer:	0%	0%	5%	5%	20%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
MEP Engineer:	0%	0%	20%	20%	10%	5%	0%	0%	0%	6%	5%	10%	10%	2%	2%	2%	2%	2%	2%	2%	2%	2%	0%	0%	0%	0%	0%	0%
Interiors Engineer:	0%	0%	20%	20%	10%	5%	0%	056	0%	0%	5%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	5%	5%	5%	5%	5%
Field Engineer:	0%	0%	5%	5%	5%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	1.00%	100%	100%	100%	100%
Field Engineer:	0%	0%	5%	5%	5%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Field Engineer:	0%	0%	5%	5%	5%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Field Engineer:	0%	0%	5%	5%	5%	100%	100%	100%	100%	1.00%	100%	100%-	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	1.00%	100%	100%	100%	100%

A breakdown of time on the project by week and a pay scale for each is provided below to justify the quantities listed in the GCE for the staff.

	Weeks on Project (CSI Qty)	Pay Scale
Project Executive:	7.361	not in estimate
Project Manager Field:	98.9405	PM maximum
Project Manager	100 (72)	DM mandaman
Engineering:	100.6725	PM maximum
GC-MEP Peer Review:	3.91865	PM average
GC Accountant:	97.53325	not in estimate
GC Estimator:	3.897	not in estimate
Lead Superintendent:	97.53325	Sup. maximum
Superintendent:	97.425	Sup. average
Exteriors		_
Superintendent: Interiors	97.425	Sup. average
Superintendent:	97.425	Sup. average
MEP Superintendent:	97.425	Sup. average
MEP Superintendent:	97.425	Sup. average
Project Engineer:	98.291	Eng. average
MEP Engineer:	3.91865	Eng. average
Interiors Engineer:	8.55175	Eng. average
Field Engineer:	97.96625	Eng. minimum
Field Engineer:	97.96625	Eng. minimum
Field Engineer:	97.96625	Eng. minimum
Field Engineer:	97.96625	Eng. minimum

Totals per Pay Scale	Totals per Pay Scale	
MEP Superintendent		
Sup. average		194.85
Project Engineer		
Eng. minimum		391.865

Critical Industry Issues

There were two break-out sessions attended at the Partnership for Achieving Construction Excellence (PACE) Roundtable Meeting. The discussion at the meeting was surprising because all of the industry professionals in attendance had very positive attitudes about the situation in the current economy. They are changing with the times and leveraging their knowledge of a cyclical economy to hold their ground in business.

There are few items currently affecting the completion of Ingleside at King Farm. One critical industry issue that did apply was material volatility. The asphalt contractor submitted for a \$60,000 CO due to the oil price increase. This is a large increase for that particular subcontract, but it would only cause an approximate increase of .06% and is relatively small in comparison to the overall project.

There is a seemingly larger push toward integrated projects because owners are seeing the value in the integrated approach. Coleman Walker of Haskell would be very capable of advising students interested in Design-Build (DB). DB is an integrated approach and it embraces cooperative team work between the owner, the builder, and the designer. There are many more opportunities to implement green elements in a building using an integrated project or DB delivery. Part of successful implementation is successful collaboration, which Coleman would be able to explain through Haskell's experience with DB. Another great contact to have in industry is Mark Konchar Balfour Beatty

Construction. Mark mentioned Balfour Beatty Construction's year-long leadership decathlon as part of their initiative to invest in their people. Investing in people is important to maintaining a positive employee atmosphere, which will spark growth and development. Understanding the growth and development side of the construction industry helps in all aspects and in every industry focus. Coming from an international player, Mark can offer valuable insight in many areas of growth at an employee and a corporate level.

PACE Roundtable Break-Out Session I: Mixer:

The Mentorship Model for Architectural Engineering students taught a lot about the differences between what is gained by the industry professional and what is gained by the student. Some professionals view it as a learning tool and value the young perspectives that the students offer. Students bring fresh ideas and knowledge of technological advances to a firm. If the mentorship model is structured properly it positively engages the mentor and mentee in real conversations about real industry topics. There is also a certain level of development and individual growth that is gained by the mentor as they "parent" and guide the student.

It's a rewarding experience for the students because it helps students understand nonacademic topics while they are finding their career paths. Once they find their career path, a mentor can help them stay on the path. The mentor provides a reliable and direct line of communication, or connection, to current industry events and current industry issues. The exposure to these experiences and development of a solid business relationship is invaluable for an aspiring young professional.

PACE Roundtable Break-Out Session II: Technical Training Topics-Energy & Economy:

The Energy & Economy session gave a positive outlook on an otherwise negative appearing energy crisis and economy. The current energy crisis and rising energy costs impact many industries, especially construction. The economics of the situation sometimes open new doors, but require alternative approaches to the way business is conducted. Maintaining flexibility and the ability to pursue other markets give many companies a competitive edge.

Ideas for alleviating the increasing costs include the use of European technologies. Some of the products may have a higher first cost, but are smart choices when they are evaluated for lifecycle cost. Designing more efficient systems through engineering beyond the requirements of the building codes may provide owners with short payback periods, which makes it more feasible to engage in a new project. An example is the observed energy savings as a result of upsizing electrical conductors to reduce resistance. Industry is moving toward the use of higher efficiency TP-1 transformers and also focusing more on lighting controls to reduce consumption. Again, some of these new products and designs have a higher cost, but they are quickly offset by significant energy savings. Many owners are beginning to see the real value in "getting what you pay for" and requesting these items for their projects. This transition in the way they think is making it easier to procure work with them for those companies that are experienced with implementing and delivering green projects.

Project costs are also increasing due to many product prices that are dependent on the volatile pricing of the raw materials that go into manufacturing them. Material volatility

is not a new issue, but it is playing a major part in this industry more than it has ever played. Creativity in Construction Management through buy-up tactics, materials contracting, and futures strategies will go a long way in the success of a project. An example of a buy-up tactic is the purchase of co-ops by electrical contractors. The upfront purchase of power can provide savings costs for the electrical contractor and offer new opportunities of selling a portion of their purchased megawatts for a profit. Any opportunity of locking in long term pricing should be taken advantage of wherever possible. Another strategy is for contractors and subcontractors to negotiate futures contracts in the preconstruction phases to purchase certain materials at a future date at a predetermined price. These strategies will help keep prices steady during spikes in the economy and during periods of energy crisis.

Although the current economic situation is not necessarily healthy, there are still many opportunities for companies to be flexible and maintain growth. Success is partially based on knowing the right markets to pursue; Data Centers, Federal Projects, Public Private Partnerships (PPP's), Higher Education, and Healthcare are good markets at this time. Data centers consist of advanced technologies that may not be understood by smaller companies, which opens the opportunity for experienced companies to win a high profile project even in an economic downfall. Federal projects are typically more abundant due to the availability of the public sector funds. Base Realignment and Closure (BRAC) Commission projects are a great area of focus when considering the numerous Department of Defense (DoD) properties in need of major renovation or reuse because the funds are more readily available, which means the projects are less likely to be postponed or cancelled during construction. PPP's are another good market because they are typically funded by the public sector (government sources) and completed through a partnership between the public sector and a private sector company. These projects are also less likely to be postponed or cancelled during construction. Higher education is a key focus during economic hardships as well. State schools in particular receive more federal assistance. This means that these owners have money to spend on new projects and renovations of outdated buildings. Renovations are more important now due to increasing energy costs. Many of these owners are investing in energy savings programs and presenting the opportunity to bid on many high value guaranteed-energy-savings projects. These are sometimes performed by Energy Savings Companies (ESCO) at no expense to the owner. The owner then pays the ESCO a certain percentage with the money they save in energy for a given length of time. Healthcare is a good market to be in because it is another industry that is partially supported by government. It also consists of very complex projects and results in many coordination issues, but the rewards are also higher than they are in the construction of a spec office building.

A combination of strategies and knowledge of the strong markets will allow companies to prevail during a downward swing in the economy. If companies stay rigid in their business models they may suffer. Ultimately, flexible companies will be more likely to maintain steady growth during these times. If proper investments in a company's current employees, the people of the company; are made the company will still earn a profit. Some companies believe in training their current employees at times like this and making them experts in their fields. They have found that new talents and new expertise can even emerge from training their current employees.

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Appendices

01 9	21 Allowances 21 63 – Taxes								
01 21	63.10 Taxes	Crew	Daily Output	Labor- Hours	Unit	Material	2008 Bi Labor	are Costs Equipment	Total
0010	TAXES R012909-80				See.		121202		
0020	Sales tax, State, average				%	4.87%		12	
0050	Maximum R012909-85					7.25%		Constant of the	
0200	Social Security, on first \$97,500 of wages			Mary		Sauther 1	7.65%		
0300	Unemployment, combined Federal and State, minimum						.80%		
0350	Average						6.20%		
0400	Maximum		_			•	11.76%		
01	31 Project Management and	60		din	E	on		10	
	1 13 – Project Coordination			am	CU				
	13.20 Field Personnel	and the		Darmie Par	Service Servic				
	FIELD PERSONNEL								
0020	Clerk, average				Week		365		3
0100	Field engineer, minimum						865		8
0120	Average				Sec. 1		1,125		1,1
0140	Maximum						1,300		1,3
0160	General purpose laborer, average					and the second se	1,200		1,2
0180	Project manager, minimum	ar years					1,600		1,6
0200	Average						1,850	-	1,8
0220	Maximum						2,100		2,1
0240	Superintendent, minimum			-14			1,550		1,5
0260	Average	862-1					1,700		1,70
0280	Maximum						1,950		1,9
0290	Timekeeper, average				-		1,005		1,00
	13.30 Insurance		(attern					in the second second	1 mar 1 / 1
	INSURANCE R013113-40	and a second			4.7			ALC: NO	
0020	Builders risk, standard, minimum			100	Job			ax and	
0050	Maximum R013113-60	rida e e per	1						
0200	All-risk type, minimum		100.0		12	E State		的法的法律	
0250	Maximum				*				
)400)450	Contractor's equipment floater, minimum	-			Value				
0800	Maximum								
850	Workers' compensation & employer's liability, average	tiente è	100	No. 194	Downli	There is no	18.31%	and the second	
900	by trade, carpentry, general Clerical	ALC:			Payroll		.68%		
950	Concrete					10075 34	15.22%		
000	Electrical					N. T.	6.66%	and the second	
050	Excavation				-		10.46%	NI INFRANCE	
100	Glazing						14.15%		
150	Insulation					1	15.12%		
200	Lathing						11.04%		
250	Masonry					E STATE	14.80%		
300	Painting & decorating						12.86%	10	
350	Pile driving						21.48%		
400	Plastering						14.39%		
450	Plumbing						8.11%		
500	Roofing						32.94%		
550	Sheet metal work (HVAC)						11.88%		
600	Steel erection, structural						40.12%		

10

01 45	5 23.50 Testing	Crew		Labor-	11. it	Hatala		Bare Costs	
4735	Soil density, nuclear method, ASTM D2922	Urew	Uurpur	Hours	Unit Eo.	Material	Labor	Equipment	
4740	Sand cone method ASTM D1556	1200	heres.	No.	EU.	SHOWERS	AN REAL	ALC: NEW YORK	h Sherry and
4750	Moisture content, ASTM D 2216		1						
4780	Permeability test, double ring infiltrometer	1	133	20	21.3	P (2) 2	1.4		
4800	Permeability, var. or constant head, undist., ASTM 0 2434	213					1.1.1.1		51
4850	Recompacted	and the state of	1			13 2. 19 76	A STATE	an an an	
4900	Proctor compaction, 4" standard mold, ASTM D 698							1	25
4950	6" modified mold	1			. []				6
5100	Shear tests, triaxial, minimum								40
5150	Maximum	19.00	12752		0	187910	and the states	A CONTRACTOR	54
5300	Direct shear, minimum, ASTM D 3080	C. C. C.	1.84			20 CC : ;	R757.68.	12.2.3	31
5350	Maximum	(ST)	12				17 B.S.	M. A.S.	40
\$550	Technician for inspection, per day, earthwork	E.C.					North Co	NO W	21
5570	Concrete	all states		RATE	200		PORT DE LA		24
5650	Bolting				11				24
5750	Roofing			1	11				24
5790	Welding				11				25
820	Non-destructive metal testing, dve penetrant	1550	15.31	and	Doy		Constant and the second		25
840	Magnetic particle	199		(4.4)	uuy				31
860	Radiography								45
880	Ultresonic		NST 1		11	390			30
000	Welding certification, minimum	19220			Eo.	168619106		1.448 5.25	301 91
100	Maximum				"				250
000	Underground storage tank								200
500	Volumetric tightness test ,<=12,000 gal				Ea.				435
510	<=30,000 gal	1.2.2		1996	H (1112	SATE NO.	- 613
600	Vadose zone (soil gas) sampling, 10-40 samples, min.				Dav				1,364
610	Maximum			See.					2,273
700	Ground water manitoring incl. drilling 3 wells, min.				Total				4,545
710	Maximum	n se se p			"			1.297.36.4	
000	X-ray concrete slabs				Ea.				6,364 182

01 51 Temporary Utilities

01 51 13 - Temporary Electricity

01 51	13.80 Temporary Utilities								
0010	TEMPORARY UTILITIES	1			PA		1.1.1		-
0100	Heat, incl. fuel and operation, per week, 12 hrs. per day	1 Skwk	100	.080	CSF FIr	10.35	3,15	13.50	
0200	24 hrs. per day	75	60	.133	1.1.1.1.1.1.1	19.95	5.25	25.20	
0350	Lighting, incl. service lamps, wiring & outlets, minimum	1 Elec	34	.235		2.63	10.70	13.33	1
0360	Maximum	11	17	.471		5.70	21.50	27.20	
0400	Power for temp lighting only, per month, min/month 6.6 KWH						# 1.44	.75	
0450	Maximum/month 23.6 KWH							2.85	
0600	Power for job duration incl. elevator, etc., minimum							47	
0650	Maximum								
0700	Temporary construction water bill per mo, average				Month	62		011	ľ;
1000	Toilet, portoble, see Equip. Rental 01 54 33 in Reference Section				mynn	01		62	ł

	52 13 – Field Offices and Sheds	a second second	4月1月18日19日日日	AL STATISTICS	14-12-199	Construction of the second	A CONTRACTOR OF A CONTRACT	法 法 推销 第一十二	S. M. OSTALL
01 5	2 13.20 Office and Storage Space	Crew		Labor- Hours	Unit	Material	2008 Bi Labor	are Costs Equipment	Total
010	OFFICE AND STORAGE SPACE				1999 - 199 19	1779 B		and Server	
020	Trailer, furnished, no hookups, 20' x 8', buy	2 Skwk	1	16	Ea.	7,975	630	Carlos and	8,605
250	Rent per month				24	201			201
300	32' x 8', buy	2 Skwk	.70	22.857		11,900	900		12,800
350	Rent per month					241			241
400	50' x 10', buy	2 Skwk	.60	26.667		22,500	1,050		23,550
450	Rent per month					330			330
500	50′ x 12′, buy	2 Skwk	.50	32		27,600	1,250		28,850
550	Rent per month	a alla		an Fall		375			375
700	For air conditioning, rent per month, add	t eres				41		And Sales	41
300	For delivery, add per mile				Mile	4.50			4.
000	Portable buildings, prefab, on skids, economy, 8' x 8'	2 Carp	265	.060	S.F.	85	2.30	NUR ARE	87.
00	Deluxe, 8' x 12'	"	150	.107	"	95	4.06	enderstanden og	99.
200	Storage boxes, 20' x 8', buy	2 Skwk	1.80	8.889	Ea.	4,275	350		4,625
250	Rent per month		1.50			73.50			73.
300	40' x 8', buy	2 Skwk	1.40	11.429		5,925	450		6,375
150	Rent per month	The state	0392			97.50		THE REAL PROPERTY	97.
000	Air supported structures, see Div, 13 31 13,13					11.50			
	2 13.40 Field Office Expense		Self.		Starter Con			NATAS DEMOCRAS.	
010	FIELD OFFICE EXPENSE	C Provide	a cines	RESER	SIGE N	and the second	an shake		
100	Office equipment rental average				Month	150			150
20	Office supplies, average				///////////////////////////////////////	95			95
25	Office trailer rental, see Div. 01 52 13.20			No.		15			15
40	Telephone bill; avg. bill/month incl. long dist.				Month	210			210
60	Lights & HVAC				//////////////////////////////////////	110		-	110
						110			110
1	54 Construction Aids								
1 5	4 09 - Protection Equipment	S Y FILM		in the second	1. 172 S		AND IN THE OW		
	09.50 Personnel Protective Equipment	Children and Share			March and a		URSEN STREET	And the second second	opp - av
-		CHECK STREET	C.4.11.1	an result	1.000			ALC: NO DE LA COMPANY	
10	PERSONNEL PROTECTIVE EQUIPMENT								
15	Hazardous waste protection		12				理的工作		
20	Respirator mask only, full face, silicone			1.4	Ea.	219	The state		219
30	Half face, silicone					32			32
40	Respirator cartridges, 2 req'd/mask, dust or asbestos					5.30			5.3
50	Chemical vapor					4.55			4.5
60	Combination vapor and dust			1		9.45			9.4
00	Emergency escape breathing apparatus, 5 min	-	•	1		455			455
10	10 min					525		1 . El	525
50	Self contained breathing apparatus with full face piece, 30 min	Part and				1,900	CHAR	Santas I.	1,900
50	60 min					3,025			3,025
	Encapsulating suits, limited use, level A	1.				890			890
	and the second sec								
10	Level B	-			-	209			209
10 00	Level B Over boots, latex				₩ Pr.	209 4.11			
200 210 300 310	Level B				Pr.				209 4.1 14.4

01 54 09.60 Safety Nets

Neoprene

Gloves, nitrile/PVC

Neoprene coated

0320

0400

0410

0010 SAFETY NETS 0020 No supports, stock sizes, nylon, 4" mesh S.F. 1.10

51

5.70

26.50

1.10

51

5.70

26.50

bit Second Care Only Method Cabor Tiggingenet Total Heile 0000 Firet Amerikan Kenolukay, 20' x 8', kay 2 Skerk 1 16 Ea 7,975 6.30 0,405 9,775 0000 6772 AM 2 Skerk 70 22.85 70 22.85 70 22.85 201 0 221 <				Daily	Labor-			2008 B	are Costs		Total	
India, functional, one back, 200 x 2 ^o , bay 2 Stock 1 1 6 7.97 6.30 9.60 9.60 9.201 9.21 <th>01 5</th> <th>2 13.20 Office and Storage Space</th> <th>Crew</th> <th></th> <th></th> <th>Unit</th> <th>Material</th> <th></th> <th></th> <th>Total</th> <th>Incl 0&</th>	01 5	2 13.20 Office and Storage Space	Crew			Unit	Material			Total	Incl 0&	
Bart per month 2 Stock 70 201	0010						The second		1.51	the strength		
32* x 8*, bay 25wk 70 22.857 11.900 900 12.800 14.500 335 Rant par month 241 241 241 241 255 2550 250 330 330 330 365 5550 550*/r 72.500 12.500 72.850 72.500 12.500 72.850 72.500 12.500 72.850 72.500 12.500 72.850 72.500 12.500 72.850 72.600 12.500 72.850 72.600 12.500 72.850 72.600 12.500 72.850 72.500 72.500 72.500 72.500 72.500 72.500 72.500 72.500 72.500 72.500 72.500 72.500 72.500 72.500 72.500 72.500 72.50 72.50 72.50 72.50 72.500 72.50 72.50 72.50 72.50 72.50 72.50 72.50 72.50 72.50 72.50 72.50 72.50 72.50 72.50 72.50 72.50 72.50 72.50	0020	and the second	2 Skwk	1	16	Ea.	Contraction of the second	630		8,605	9,775	
Best part month 2 Slowk 60 241 245 255 255 255 255 255 255 255 255 255 255 255 255 255 255 255 255 255 255 256 257 255	0250	Rent per month			The states	20 4	201		Marine 1	201	221	
Story Story To Lyw 2 Stork 6.0 26.46.7 22,500 1,050 23,550 25,500 Mass Rent per month 2 330 <t< td=""><td>0300</td><td>32' x 8', buy</td><td>2 Skwk</td><td>.70</td><td>22.857</td><td></td><td>11,900</td><td>900</td><td></td><td>12,800</td><td>14,500</td></t<>	0300	32' x 8', buy	2 Skwk	.70	22.857		11,900	900		12,800	14,500	
Partson Rem per month Solver 1/2', loy Partson Partson <th< td=""><td>0350</td><td>Rent per month</td><td></td><td></td><td></td><td></td><td>241</td><td></td><td></td><td>241</td><td>265</td></th<>	0350	Rent per month					241			241	265	
S00 S0'x 12', kay 2 Skok 50 32 27,600 1,250 28,850 32,000 550 Rent per month 375 41 41 44 450 9800 Protable buildings, pedid, on side, economy, 8' x 8' 2 Cap 265 0.60 5.6 85 2.30 87.30 97 100 Detaxe, 8' x 12' m 150 4.450 4.450 4.450 4.450 4.450 4.453 5.75 85.0 97.350 97.350 97.350 97.50 97.50 97.50 107 7.350	0400	50' x 10', buy	2 Skwk	.60	26.667		22,500	1,050		23,550	26,500	
Basis Ran per month For air conditionis, entry armonth, add Jarris Jarris <thjarris< th=""> Jarris<td>0450</td><td>Rent per month</td><td></td><td></td><td></td><td>1</td><td>330</td><td></td><td></td><td>330</td><td>365</td></thjarris<>	0450	Rent per month				1	330			330	365	
1700 For air conditioning, rent per month, add 41 41 41 41 41 45 64 50 70 000 Prote balway, adjur mile 200 Storage baces, 20°, 8°, bay 200 50 55. 85 2.30 87.30 97 1100 Delues, 8°, 12° " 150 1.07 " 95 4.06 97.06 15.27 5.275 350 4.625 5.275 350 4.625 5.275 350 4.625 5.275 350 4.625 5.275 350 4.625 5.275 350 4.625 5.275 350 4.625 5.275 350 4.625 5.275 350 4.625 5.275 350 4.625 5.275 350 4.625 5.275 350 4.625 5.275 350 4.625 5.275 350 4.53 4.55 4.55 4.55 4.55 4.55 4.55 4.55 4.55 5.50 50 50 50 50 50	0500	50' x 12', buy	2 Skwk	.50	32		27,600	1,250		28,850	32,400	
Big Dig For delivery, add par mile Y and Particle lakings, preficie, an skits, sconemy, B' x B' Y and Particle lakings, preficie, an skits, sconemy, B' x B' Y and Particle lakings, preficie, and skits, sconemy, B' x B' Y and Particle lakings, preficie, and skits, sconemy, B' x B' Y and Particle lakings, preficie, and skits, sconemy, B' x B' Y and Particle lakings, preficie, and skits, sconemy, B' x B' Y and Particle lakings, preficie, and skits, sconemy, B' x B' Y and Particle lakings, preficie, and skits, sconemy, B' x B' Y and Particle lakings, preficie, and skits, sconemy, B' x B' Y and Particle lakings, preficie, and skits, sconemy, B' x B' Y and Particle lakings, preficie, and skits, sconemy, B' x B' Y and Particle lakings, preficie, and skits, sconemy, B' x B' Y and Particle lakings, preficie, and skits, sconemy, B' x B' Y and Particle lakings, preficie, and skits, sconemy, B' x B' Y and Particle lakings, preficie, and skits, sconemy, B' x B' Y and Particle lakings, preficie, and skits, sconemy, B' x B' Y and Particle lakings, preficie, B' Y and Partis B' Y and Particle lakings, pre<	0550	Rent per month		in air	SPE V.		375			375	410	
Big Dig For delivery, add par mile Y and Particle lakings, preficie, an skits, sconemy, B' x B' Y and Particle lakings, preficie, an skits, sconemy, B' x B' Y and Particle lakings, preficie, and skits, sconemy, B' x B' Y and Particle lakings, preficie, and skits, sconemy, B' x B' Y and Particle lakings, preficie, and skits, sconemy, B' x B' Y and Particle lakings, preficie, and skits, sconemy, B' x B' Y and Particle lakings, preficie, and skits, sconemy, B' x B' Y and Particle lakings, preficie, and skits, sconemy, B' x B' Y and Particle lakings, preficie, and skits, sconemy, B' x B' Y and Particle lakings, preficie, and skits, sconemy, B' x B' Y and Particle lakings, preficie, and skits, sconemy, B' x B' Y and Particle lakings, preficie, and skits, sconemy, B' x B' Y and Particle lakings, preficie, and skits, sconemy, B' x B' Y and Particle lakings, preficie, and skits, sconemy, B' x B' Y and Particle lakings, preficie, and skits, sconemy, B' x B' Y and Particle lakings, preficie, and skits, sconemy, B' x B' Y and Particle lakings, preficie, B' Y and Partis B' Y and Particle lakings, pre<		For air conditioning, rent per month, add					41			4]	45	
1000 Purtable buildings, peritab, on skids, examomy, 8' x 8' 2 Cap 265 0.60 S.F. 85 2.30 87.30 97. 100 Deluxe, 8' x 12' " " 150 107 " 95 44.06 99.06 112 100 Storage brock, 20' x 8', buy 2 Stork 1.80 8.89 fa. 4.72 S 350 4.06 99.06 112 120 Bara per month 2 Stork 1.80 8.89 fa. 4.72 S 350 4.52 7.35 O		and the second			Sec.	Mile	4.50			4.50	4.	
100 Delays, 8' x 12' " 150 107 " 95 4.06 99.06 112 200 Storage boxes, 20' x 8', bay 2 Skwk 1.80 8.889 En. 4.275 350 4.625 5.275 300 40' x 8', bay 2 Skwk 1.40 11.429 5.925 450 6.375 7.225 300 Ar support advances, see Bin, 13.31 13.13 2 * 95 97.50 97.50 107 70 Ar support advances, see Bin, 13.31 13.13 * 1.40 11.42 5.925 450 6.375 7.225 100 Offics aupines, errenth			2 Com	265	060		A CONTRACTOR OF A	2 30				
200 Storage bases, 20' x 8', tuy 2 Skwk 1.80 8.889 Ea. 4,275 350 4,625 5,275 250 Kent per month 2 Skwk 1.40 11,429 73,50 68,375 72,25 300 40' x 8', tuy 2 Skwk 1.40 11,429 97,50 107 Ar supported structures, see Dir. 13.31 13.13 Y 97,50 107 Y 97,50 107 100 PHLO PHCE KEPKSK Y 97,50 150 165 150 165 100 Office supplement rented overage Month 150 150 165 105 100 Office supplement rented overage Wonth 210 231 110 120 210 231 100 Uights & HWAC Wonth 210 210 231 110 120 210 231 140 5.40 OP Personnel Protective Equipment Wonth 210 211 210 231 151 Macridiox words protective Equipme			"				and the second second second	a faile and a fail of the second second	Renerativ			
Image: space of the stress of the s			2 Shut			Fa	and the second second			3		
1300 40° x 8', buy 2 Skek 1.40 11.429 5,925 450 6,375 7,225 330 Ari supported structures, see Biv, 13.31 13,13 97,50 97,50 97,50 97,50 97,50 107 100 FIELD OFFICE EXPENSE 0ffice equipment rental overage North 150 155 155 1100 Office suplies, overage " 95 95 105 1125 Office trailer rend, see Biv, 01.52 13.20 North 110 2			Z JAWA	1.00	0.007	1		330				
Basic Rent per month P7.50			2 Church	1.40	11 490			450				
1000 Air supported structures, see Div. 13 31 13.13 11 52 13.40 Field Office Expense 11 52 13.40 Field Office Expense 11 52 13.40 Field Office Expense 1200 Office supplies, overage North 150 150 155 120 Office supplies, overage North 150 150 151 121 Office supplies, overage North 150 150 151 121 Office supplies, overage North 150 151 153 125 Office supplies, overage North 110 121 01 Telephone bill, way, bill/menth ind, long dist. Month 110 121 01 Ugits & HWC Month 100 110 121 01 Set Account of the contract of th		The second statement of the second statement with a statement of the second second statement with an experimental second	Z SKWK	1.40	11.427	MERUSA	and the second second	450	The second second	and the second state of the second		
152 13.40 Field Office Expense IPED OFFICE EXPENSE Month 150 150 165 0100 Office supplies, overage " 95 95 105 01120 Office supplies, overage " 95 95 105 016 Italiar rentil, see Dk. 01 52 13.20 " 110 210 231 1160 Telephone bill; org, bill/month ind. long dist. Month 210 231 1160 Telephone bill; org, bill/month ind. long dist. Month 210 231 1160 FERSONNEL PROTECTIVE EQUIPMENT " 110 110 121 011 PERSONNEL PROTECTIVE EQUIPMENT En. 219 219 241 101 PERSONNEL PROTECTIVE EQUIPMENT En. 219 219 241 1020 Respirator ramsk only, full face, silicone En. 32 32 35. 1010 Horardok words protection 455 455 55 55 55 55 55 55 55 55 55 <td></td> <td></td> <td></td> <td></td> <td></td> <td>*</td> <td>97.50</td> <td></td> <td></td> <td>97.50</td> <td>107</td>						*	97.50			97.50	107	
FIELD OFFICE EXPENSE Office supplies, overage Office supplies, overage Of				al ching	1.12月1日		N GUI TO T	New Training	of the second			
North 150 95 150 95 150 95 150 95 150 95 150 95 150 95 150 95 150 95 150 105 100 Office supples, overage Office runk see Div. 01 52 13.20 Month 210 210 231 100 210 231 110 Ideployable bil; org, bil/month ind. long dist. Month 210 210 231 110 115 1155 1155 1155 1155 1155 1155 1155 1155 1155 1155 1155 1155 1155 1155 1155 1155 1155 1155 <td></td> <td></td> <td></td> <td>ANC AND AND AND AND AND AND AND AND AND AND</td> <td>in strengt of</td> <td>101.00</td> <td></td> <td></td> <td></td> <td></td> <td>C. C. C</td>				ANC AND	in strengt of	101.00					C. C	
120 Office supplies, overage " 95 95 105 125 Office trailer rentd, see Dix. 01 52 13.20 Month 210 231 110 110 121 210 231 140 Telephone bill; org. bill/month ind. long dist. w" 110 110 121 Office trailer rentd, see Dix. 01 52 13.20 Worth 210 210 231 Lights & HVAC Office trailer rentd, see Dix. 01 52 13.20 Worth 210 210 231 US Office trail 210 231 US Office trail 210 DIS Hazardous waste protection Station mask dust or asbestos 5.30 5.30 5.30 Station rent divides Encopsetion rask dust or asbestos 5.30 5.30 5.30 Station rant divides 9.455 9.455 9.455 <td co<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>AND STREET</td><td></td><td></td></td>	<td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>AND STREET</td> <td></td> <td></td>									AND STREET		
Note subjects wridge No No <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td>incontra de</td> <td>150</td> <td>165</td>						1			incontra de	150	165	
140 Telephone bill; ovg. bill/month ind. long dist. Lights & HVAC Month 10 210 231 231 Of 54 Construction Aids Of 54 OP - Protection Equipment It 164 OF - Protective Equipment <td>120</td> <td>Office supplies, average</td> <td></td> <td></td> <td></td> <td>"</td> <td>95</td> <td></td> <td>Strate-</td> <td>95</td> <td>105</td>	120	Office supplies, average				"	95		Strate-	95	105	
1160 Lights & HVAC # 110 110 121 OI 54 OS - Protection Equipment I 54 OS - Protection Equipment I 54 OS - Protection Equipment It 54 OS - Protection Equipment II 54 OS. Personnel Protective Equipment 100 Respirator mask only, full face, silicone Ea. 219 219 241 30 Holf face, silicone 32 32 35. 050 Chemical vapar 4.55 4.55 5 050 Combination vapar and dust 9.45 9.45 9.45 100 Emergency escape breathing apparatus, 5 min 455 55 500 101 To min 525 525 575 515 525 575 100 Emergency escape breathing apparatus, 5 min 455 455 500 1,9	125	Office trailer rental, see Div. 01 52 13.20							in the			
O1 54 OS ACONSTRUCTION AICLS D1 54 09 - Protection Equipment 11 54 09.50 Personnel Protective Equipment 100 Personnel Protective Equipment 101 Personnel Protective Equipment 1020 Respirator mask only, full foce, silicone Ea. 219 219 241 30 Half foce, silicone 32 33 5.30 <td>)140</td> <td>Telephone bill: ava. bill/month incl. long dist.</td> <td></td> <td></td> <td></td> <td>Month</td> <td>210</td> <td></td> <td>and the second se</td> <td>010</td> <td>001</td>)140	Telephone bill: ava. bill/month incl. long dist.				Month	210		and the second se	010	001	
D1 54 09 - Protection Equipment 1 54 09.50 Personnel Protective Equipment 010 PERSONNEL PROTECTIVE EQUIPMENT 219 219 241 030 Respirator mask only, full face, silicone 32 32 35. 030 Haff face, silicone 32 32 35. 040 Respirator mask only, full face, silicone 5.30 5.30 5.30 050 Chemical vapor 4.55 4.55 5 060 Combination vapor and dust 9.45 9.45 9.45 100 Emergency escape breathing apparatus, 5 min 455 455 500 110 10 min 525 525 575 150 Self contained breathing apparatus with full face piece, 30 min 1,900 1,900 2,075 160 60 min 3,025 3,025 3,225 3,255 160 Eucaysloining suit, limited use, level A 890 890 890 890 890 890 890 890 890 890 890 890 14.40		and a second s	1			MOTHI	210			210	231	
160 60 min 3,025 3,025 3,025 3,325 200 Encopsulating suits, limited use, level A 890 890 980 210 Level B 209 209 209 230 300 Over boots, latex Pr. 4.11 4.11 4.11 4.11 310 PVC 14.40 14.40 15.4 51 56.5 320 Neoprene 51 51 56.5 570 6.4 110 Neoprene coated 7.26.50 29 29 205 29	160	Lights & HVAC				643 (<u>199</u>) 1344	1-216-3					
200 Encopsulating suits, limited use, level A 890 890 980 210 Level B 209 209 230 300 Over boots, latex Pr. 4.11 4.11 4.11 310 PVC 14.40 14.40 15.4 320 Neoprene 51 51 56.5 400 Gloves, nitrile/PVC 5.70 5.70 6.2 410 Neoprene coated 7 26.50 29	0160 011 011 011 011 011 011 011 011 020 030 040 050 060 100 110	Lights & HVAC 54 Construction Aids 54 09 – Protection Equipment 09.50 Personnel Protective Equipment PERSONNEL PROTECTIVE EQUIPMENT Haardous waste protection Respirator mask only, full face, silicone Half face, silicone Respirator cartridges, 2 req'd/mask, dust or asbestos Chemical vapor Combination vapor and dust Ernergency escape breathing apparatus, 5 min 10 min				"	110 219 32 5.30 4.55 9.45 455			110 219 32 5.30 4.55 9.45 455	121 241 35.5(5.8) 5 10.4(500	
210 Level B 209 209 230 100 Over boots, lotex Pr. 4.11 5.1	160 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 D1 	Lights & HVAC 54 Construction Aids 54 09 – Protection Equipment 09.50 Personnel Protective Equipment PERSONNEL PROTECTIVE EQUIPMENT Haardous waste protection Respirator mask only, full face, silicone Half face, silicone Respirator cartridges, 2 req'd/mask, dust or asbestos Chemical vapor Combination vapor and dust Ernergency escape breathing apparatus, 5 min 10 min				"	110 219 32 5.30 4.55 9.45 455 525 1,900			219 32 5.30 4.55 9.45 455 525 1,900	241 35.5 5.8 5 10.4 500 575 2,075	
00 Over boots, latex Pr. 4.11 15.1 51 55 51 51 51 55 57 6.1 57 6.1 57 61 57 61 57 61 57 61 57 61 57 61 57 61	160 11 11 15 15 15 15 15 15 16 17 15 16 17 15 16 17 15 16 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 	Lights & HVAC 54 Construction Aids 54 09 – Protection Equipment 09.50 Personnel Protective Equipment PERSONNEL PROTECTIVE EQUIPMENT Hazardous waste protection Respirator mask only, full face, silicone Half face, silicone Respirator catridges, 2 req'd/mask, dust or asbestos Chemical vapor Combination vapor and dust Emergency escape breathing apparatus, 5 min 10 min Self contained breathing apparatus with full face piece, 30 min 60 min		•		"	110 219 32 5.30 4.55 9.45 525 1,900 3,025			219 32 5.30 4.55 9.45 455 525 1,900 3,025	241 35.5 5.8 5 10.4 500 575 2,075 3,325	
V00 Over boots, latex Pr. 4.11 5.1 5.5 5.70 5.70 5.70 5.70 5.70 5.70	160 D1 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 1 5 1 1 5 1 1 5 1 1 1 1 1 1 1 1	Lights & HVAC 54 Construction Aids 54 09 – Protection Equipment 09.50 Personnel Protective Equipment PERSONNEL PROTECTIVE EQUIPMENT Hazardous waste protection Respirator mask only, full face, silicone Half face, silicone Respirator cartridges, 2 req'd/mask, dust or asbestos Chemical vapor Combination vapor and dust Ernergency escape breathing apparatus, 5 min 10 min Self contained breathing apparatus with full face piece, 30 min 60 min Encapsulating suits, limited use, level A				"	110 219 32 5.30 4.55 9.45 455 525 1,900 3,025 890			219 32 5.30 4.55 9.45 455 525 1,900 3,025	241 35.5 5.8 5 10.4 500 575 2,075 3,325	
PVC 14.40 14.40 14.40 15.1 120 Neoprene 51 51 56.5 100 Gloves, nitrile/PVC 5.70 5.70 6.7 110 Neoprene coated 7 26.50 29	160 D1 D1 154 154 154 155 160 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100	Lights & HVAC 54 Construction Aids 54 09 – Protection Equipment 09.50 Personnel Protective Equipment PERSONNEL PROTECTIVE EQUIPMENT Hazardous waste protection Respirator mask only, full face, silicone Half face, silicone Respirator cartridges, 2 req'd/mask, dust or asbestos Chemical vapor Combination vapor and dust Ernergency escape breathing apparatus, 5 min 10 min Self contained breathing apparatus with full face piece, 30 min 60 min Encapsulating suits, limited use, level A Level B		•		и Еа.	110 219 32 5.30 4.55 9.45 455 525 1,900 3,025 890			219 32 5.30 4.55 9.45 525 1,900 3,025 890	121 241 35.5 5.8 5 10.4 500 575 2,075 3,325 980	
Veoprene 51 51 56. 100 Gloves, nitrile/PVC 5.70 5.70 6.3 110 Neoprene coated 7 26.50 29	160 D1 D1 154 154 154 155 160 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100	Lights & HVAC 54 Construction Aids 54 09 – Protection Equipment 09.50 Personnel Protective Equipment PERSONNEL PROTECTIVE EQUIPMENT Hazardous waste protection Respirator mask only, full face, silicone Half face, silicone Respirator cartridges, 2 req'd/mask, dust or asbestos Chemical vapor Combination vapor and dust Ernergency escape breathing apparatus, 5 min 10 min Self contained breathing apparatus with full face piece, 30 min 60 min Encapsulating suits, limited use, level A Level B		•		Eo.	110 219 32 5.30 4.55 525 1,900 3,025 890 209			110 219 32 5.30 4.55 525 1,900 3,025 890 209	241 35.5 5.8 5 10.4 500 575 2,075 3,325 980 230	
00 Gloves, nitrile/PVC 5.70 5.70 6.1 10 Neoprene coated 9 26.50 29	160 11 11 15 15 15 15 15 15 15 15	Lights & HVAC 54 Construction Aids 54 09 – Protection Equipment 59.50 Personnel Protective Equipment PERSONNEL PROTECTIVE EQUIPMENT Hazardous waste protection Respirator mask only, full face, silicone Half face, silicone Respirator cartridges, 2 req'd/mask, dust or asbestos Chemical vapor Combination vapor and dust Emergency escape breathing apparatus, 5 min 10 min Self contained breathing apparatus with full face piece, 30 min 60 min Encapsulating suits, limited use, level A Level B Over boots, latex		•		Eo.	110 219 32 5.30 4.55 9.45 525 1,900 3,025 890 209 4.11			110 219 32 5.30 4.55 525 1,900 3,025 890 209 4.11	121 241 35.5 5.8 5 10.4 500 575 2,075 3,325 980	
10 Neoprene coated 9 26.50 26.50 29	160 01 01 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 15 	Lights & HVAC 54 Construction Aids 54 09 — Protection Equipment 59.50 Personnel Protective Equipment PERSONNEL PROTECTIVE EQUIPMENT Hazardous waste protection Respirator mask only, full face, silicone Half face, silicone Respirator cartridges, 2 req'd/mask, dust or asbestos Chemical vapor Combination vapor and dust Emergency escape breathing apparatus, 5 min 10 min Self contained breathing apparatus with full face piece, 30 min 60 min Encapsulating suits, limited use, level A Level B Over boots, latex PVC		•		Eo.	110 219 32 5.30 4.55 525 1,900 3,025 890 209 4.11 14.40			110 219 32 5.30 4.55 525 1,900 3,025 890 209 4.11 14.40	241 35.5 5.8 5 10.4 500 575 2,075 3,325 980 230 4.5	
	160 1 50 1 50 1 50 1 50 1 50 1 50 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	Lights & HVAC 54 Construction Aids 54 09 — Protection Equipment 59.50 Personnel Protective Equipment PERSONNEL PROTECTIVE EQUIPMENT Hazardous waste protection Respirator mask only, full face, silicone Half face, silicone Respirator cartridges, 2 req'd/mask, dust or asbestos Chemical vapor Combination vapor and dust Emergency escape breathing apparatus, 5 min 10 min Self contained breathing apparatus with full face piece, 30 min 60 min Encapsulating suits, limited use, level A Level B Over boots, latex PVC Neoprene		•		Eo.	110 219 32 5.30 4.55 525 1,900 3,025 890 209 4.11 14.40 51			110 219 32 5.30 4.55 525 525 1,900 3,025 890 209 4.11 14.40 51	241 35.5 5.8 5 10.4 500 575 2,075 3,325 980 230 4.5 15.8 56.5	
	160 1 50 1 50 1 50 1 50 1 50 1 50 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	Lights & HVAC 54 Construction Aids 54 09 — Protection Equipment 59.50 Personnel Protective Equipment PERSONNEL PROTECTIVE EQUIPMENT Hazardous waste protection Respirator mask only, full face, silicone Half face, silicone Respirator cartridges, 2 req'd/mask, dust or asbestos Chemical vapor Combination vapor and dust Emergency escape breathing apparatus, 5 min 10 min Self contained breathing apparatus with full face piece, 30 min 60 min Encapsulating suits, limited use, level A Level B Over boots, latex PVC Neoprene Gloves, nitrile/PVC				Eo.	110 219 32 5.30 4.55 9.45 525 1,900 3,025 890 209 4.11 14.40 51 5.70			110 219 32 5.30 4.55 525 525 1,900 3,025 890 209 4.11 14.40 51 5.70	241 35.5 5 10.4 500 575 2,075 3,325 980 230 4,5 15.8 56.5 6,2	
	160 160 15 15 160 10 10 10 10 10 10 10 10 10 1	Lights & HVAC 54 Construction Aids 54 09 — Protection Equipment 59.50 Personnel Protective Equipment PERSONNEL PROTECTIVE EQUIPMENT Hazardous waste protection Respirator mask only, full face, silicone Half face, silicone Respirator cartridges, 2 req'd/mask, dust or asbestos Chemical vapor Combination vapor and dust Emergency escape breathing apparatus, 5 min 10 min Self contained breathing apparatus with full face piece, 30 min 60 min Encapsulating suits, limited use, level A Level B Over boots, latex PVC Neoprene Gloves, nitrile/PVC				Eo.	110 219 32 5.30 4.55 9.45 525 1,900 3,025 890 209 4.11 14.40 51 5.70			110 219 32 5.30 4.55 525 525 1,900 3,025 890 209 4.11 14.40 51 5.70	121 241 35. 5 5 10. 575 2,075 3,325 980 230 4. 15 56 6	

15

01 56 Temporary Barriers and Enclosures 01 56 13 - Temporary Air Barriers Labor-Daily 2008 Bare Costs Total 01 56 13.90 Winter Protection Unit Material Crew Output Hours Labor Total Incl O&P Equipment Framing to close openings 2 Clab 750 021 S.F. .39 .65 1.04 1.50 0100 Tarpaulins hung over scaffolding, 8 uses, not incl. scaffolding .25 .32 .57 1500 .011 .81 0200 .30 Tarpaulin polyester reinf. w/ integral fastening system 11 mils thick 1600 .010 .80 1.10 1.38 0250 .013 .85 .40 Prefab fiberglass panels, steel frame, 8 uses 1200 1.25 1.61 0300 01 56 23 - Temporary Barricades 01 56 23.10 Barricades 0010 BARRICADES 5' high, 3 rail @ 2" x 8", fixed .800 5.35 30.50 35.85 20 L.F. 56 50 0020 2 Corp .533 Movable 11 30 . 4.40 20.50 24.90 38.50 0150 0300 Stock units, 6' high, 8' wide, plain, buy Ea. 435 435 480 With reflective tape, buy 525 580 0350 525 Break-a-way 3" PVC pipe barricade 0400 with 3 ea. 1' x 4' reflectorized panels, buy 305 305 335 0410 Ea. Plywood with steel legs, 32" wide 72 72 79 0500 Telescoping Christmas tree, 9' high, 5 flags, buy 122 122 134 0600 Traffic cones, PVC, 18" high 7.20 7.20 7.90 0800 28" high 0850 14.35 14.35 15.80 1000 Guardrail, wooden, 3' high, 1" x 6", on 2" x 4" posts 2 Corp 200 .080 L.F. 1.09 3.05 4.14 6.25 .097 2.29 2" x 6", on 4" x 4" posts 165 3.69 5.98 1100 8.60 1200 Portable metal with base pads, buy 13.15 13.15 14.50 1250 Typical installation, assume 10 reuses 2 Carp 600 .027 1.31 1.02 2.33 3.12 -Barricade tape, polyethelyne, 7 mil, 3" wide x 500' long roll 25 1300 Ea. 25 27.50 5000 Barricades, see Div. 01 54 33.40 01 56 26 - Temporary Fencing 01 56 26.50 Temporary Fencing 0010 TEMPORARY FENCING 0020 Chain link, 11 ga, 5' high 2 Clab 400 .040 L.F. 6.50 1.21 7.71 9.15 0100 6' high 300 .053 1.61 10.35 7 8.61 0200 Rented chain link, 6' high, to 1000' (up to 12 mo.) 400 .040 1.79 1.21 3 3.97 0250 Over 1000' (up to 12 mo.) 300 .053 1.97 1.61 3.58 4.84 Ŵ 0350 Plywood, painted, 2" x 4" frame, 4' high A-4 135 .178 5.30 6.50 11.80 16.55 0400 4" x 4" frame, 8' high " 110 .218 10.70 18.70 8 25 0500 Wire mesh on 4" x 4" posts, 4' high 100 10.20 2 Carp .160 6.10 16.30 21.50 0550 " 80 .200 15.45 7.60 8' high 23.05 29.50 01 56 29 - Temporary Protective Walkways 01 56 29.50 Protection 0010 PROTECTION 0020 Stair tread, 2" x 12" planks, 1 use 75 .107 3.73 4.06 7.79 10.85 1 Carp Trend 0100 Exterior plywood, 1/2" thick, 1 use 65 .123 1.56 4.69 6.25 9.45 0200 3/4" thick, 1 use 60 .133 2.61 5.10 7.71 11.25 -Sidewalks, 2" x 12" planks, 2 uses 2200 350 .023 S.F. .62 .87 1.49 2.12 2300 750 .011 .26 Exterior plywood, 2 uses, 1/2" thick .41 .67 .96 2500 3/4" thick 600 .013 .44 .51 .95 1.32 01 56 32 - Temporary Security 01 56 32.50 Watchman 0010 WATCHMAN 0020 Service, monthly basis, uniformed person, minimum Hr. 25 27.50 0100 45.45 Maximum 50 0200 Person and command dog, minimum 31 34

21

60

54.55

Maximum

	6 32.50 Watchman	Crew	Daily Output	Labor-	Unit	Material	2008 Bar Labor	e Costs Equipment	Total	Total Incl 0&P
0500	Sentry dog, leased, with job patrol (yard dog), 1 dog	Liew	Oulput	nours	Week	mulcilul	LUUUI	rdoibillem	290	31
0600	2 dogs				"				390	42
0080	Purchase, trained sentry dog, minimum				Ea.				1,364	1,50
0900	Moximum		1			N. S. S.		- March	2,727	3,00
01	58 Project Identification									
01 !	58 13 - Temporary Project Signage									
-	8 13.50 Signs									-
	SIGNS				11	174 × 1	The second	G. M.	1.1.1.1	
0020	High intensity reflectorized, no posts, buy	100	100		S.E	17.90	1000		17.90	19.7
01	71 Examination and Prepa	aratio	n							
	71 23 - Field Engineering	ALC: NO						CANALOGICA STATE		
01 71	23.13 Construction Layout									
0010	CONSTRUCTION LAYOUT	2.8	PS-R	6.18	1	121212	199	(Seal)	1996	
100	Crew for layout of building, trenching or pipe laying, 2 person crew	A-6	1	16	Day		615	69	684	1,075
1200	3 person crew	A-7	1	24	1		1,000	69	1,069	1,700
1400	Crew for roadway layout, 4 person crew	A-8		32	V		1,300	69	1,369	2,175
-	23.19 Surveyor Stakes		Post of							
0010	SURVEYOR STAKES Hardwood, 1" x 1" x 48" long		1		C	54			54	59.5
0100	2" x 2" x 18" long				1	68.50			68.50	75
0150	2" x 2" x 24" long					80	and the fi		80	88
0200	2" x 2" x 30" long	And a faith of				74	and the second	Service P	74	81.5
0200										
0200	74 Classing and Master M		10.00		No. In .		- Theorem		FARMERIA	The state
01	74 Cleaning and Waste M	anage	me	int						
01 01 7	14 13 - Progress Cleaning	anage	me	int						
01 01 7 01 74	4 13 - Progress Cleaning 13.20 Cleaning Up	anage	ime	nt						
01 01 7 01 74	14 13 - Progress Cleaning	anage	me	nt						.30
01 01 7 01 74 0010 0020	14 13 - Progress Cleaning 13.20 Cleaning Up CLEANING UP	anage	me	ant	dot "					.30! 1%
01 01 7 01 74 0010 0020 0040	14 13 – Progress Cleaning 13.20 Cleaning Up CLEANING UP After job completion, allow, minimum	anage	:me	nt	Job					
01 7 01 7 01 74 0010 0020 0040 0042	14 13 - Progress Cleaning 13.20 Cleaning Up CLEANING UP After job completion, allow, minimum Maximum	anage		1.125	Job "	1.70	34	2.80	38.50	
01 01 7 01 74 0010 0020 0040 0042 0052	14 13 – Progress Cleaning 13.20 Cleaning Up CLEANING UP After job completion, allow, minimum Maximum Rubbish removal, see Div. 02 41 19.23	45		1.125	Job "	1.70 2.71	34 47	2.80 3.90	38.50 53.61	1%
01 01 7 01 74 0010 0020 0040 0042 0052 0100	14 13 — Progress Cleaning 13.20 Cleaning Up CLEANING UP After job completion, allow, minimum Maximum Rubbish removal, see Div. 02 41 19.23 Cleanup of floar area, continuous, per day, during const. Final by 6C at end of job	45	16	1.125	Job "					1% 61
01 01 7 01 74 0010 0020 0040 0042 0052 0100	14 13 — Progress Cleaning 13.20 Cleaning Up CLEANING UP After job completion, allow, minimum Maximum Rubbish removal, see Div. 02 41 19.23 Cleanup of floar area, continuous, per day, during const.	4-5 ,//	16	1.125	Job "					1% 61
01 7 01 7 01 7 01 74 0010 0020 0040 0040 0040 0042 0052 0100 01 9 01 9	14 13 - Progress Cleaning 13.20 Cleaning Up CLEANING UP After job completion, allow, minimum Maximum Rubbish removal, see Div. 02 41 19.23 Cleanup of floar area, continuous, per day, during const. Final by GC at end of job 91 Commissioning 91 A General Commissioning Require 13.50 Commissioning	4-5 ,//	16	1.125	Job "					1% 61
01 01 7 01 7 01 74 0010 0020 0040 0042 0052 0100	14 13 - Progress Cleaning 13.20 Cleaning Up CLEANING UP After job completion, allow, minimum Maximum Rubbish removal, see Div. 02 41 19.23 Cleanup of floar area, continuous, per day, during const. Final by 6C at end of job 91 Commissioning 91 A General Commissioning Require	4-5 ,//	16	1.125	Job "					1% 61

			Daily	Labor-				are Costs		Total
03 2	1 13.10 Galvanized Reinforcing	Crew	Output	Hours	Unit	Material	Labor	Equipment	Total	Incl O&P
0010	GALVANIZED REINFORCING	180			ST	00.041		1.2.2.34	1. A. A.	
0150	Galvanized, #3	1. 190			Ton	750			750	82
0200	#4					750			750	82
0250	#5	1 - 4				735			735	81
0300	#6 or over	1				735			735	81
1000	For over 20 tons, #6 or larger, minimum	1				680			680	75
1500	Maximum				4.	815			815	90
03 9	21 16 - Epoxy-Coated Reinforcing Steel	15 Mar				A PARTY REPORT				1.1.1
03 21	16.10 Epoxy-Coated Reinforcing									-
0010	EPOXY-COATED REINFORCING	Libre	1			20170 ng 2	And they			
0100	Epoxy coated, A775				Ton	400			400	44

03 22 Welded Wire Fabric Reinforcing

03 22 05 - Uncoated Welded Wire Fabric 03 22 05.50 Welded Wire Fabric

0010	WELDED WIRE FABRIC ASTM A185	R032205-30								
0050	Sheets		1. 10							
0100	6 x 6 - W1.4 x W1.4 (10 x 10) 21 lb. per C.S.F.	CN	2 Rodm	35	.457	C.S.F.	13.25	19.65	32.90	47
0200	6 x 6 - W2.1 x W2.1 (8 x 8) 30 lb. per C.S.F.			31	.516		15.65	22	37.65	53.50
0300	6 x 6 - W2.9 x W2.9 (6 x 6) 42 lb. per C.S.F.			29	.552		20	23.50	43.50	61
0400	6 x 6 - W4 x W4 (4 x 4) 58 lb. per C.S.F.			27	.593		29	25.50	54.50	74
0500	4 x 4 - W1.4 x W1.4 (10 x 10) 31 lb. per C.S.F.			31	.516		20	22	42	59
0600	4 x 4 - W2.1 x W2.1 (8 x 8) 44 lb. per C.S.F.			29	.552		26.50	23.50	50	68
650	4 x 4 - W2.9 x W2.9 (6 x 6) 61 lb. per C.S.F.			27	.593		31.50	25.50	57	76.50
700	4 x 4 - W4 x W4 (4 x 4) 85 lb. per C.S.F.		-	25	.640		47	27.50	74.50	97
0750	Rolls					1				
0080	2 x 2 - #14 galv., 21 lb/C.S.F., beam & column wrap		2 Rodm	6.50	2.462	C.S.F.	33	106	139	211
0900	2 x 2 - #12 galv. for gunite reinforcing		"	6.50	2.462	"	39.50	106	145.50	218

03 23 Stressing Tendons

03 23 05 - Prestressing Tendons

0010	PRESTRESSING STEEL	R034136-90									
0100	Grouted strand, post-tensioned in field, 50' span, 100 kip		(-3	1200	.053	Lb.	2.08	2.10	.08	4.26	5.75
0150	300 kip			2700	.024		.91	.93	.04	1.88	2.54
0300	100' span, 100 kip			1700	.038		2.08	1.48	.06	3.62	4.75
0350	300 kip			3200	.020		1.79	.79	.03	2.61	3.27
0500	200' span, 100 kip			2700	.024		2.08	.93	.04	3.05	3.83
0550	300 kip			3500	.018		1.79	.72	.03	2.54	3.16
0800	Grouted bars, 50' span, 42 kip		1	2600	.025		.91	.97	.04	1.92	2.60
0850	143 kip			3200	.020		.87	.79	.03	1.69	2.26
1000	75' span, 42 kip			3200	.020		.92	.79	.03	1.74	2.31
1050	143 kip		+	4200	.015		.78	.60	.02	1.40	1.86
1200	Ungrouted strand, 50' span, 100 kip	ø	C-4	1275	.025		.51	1.09	.02	1.62	2.37
1250	300 kip			1475	.022		.51	.94	.02	1.47	2.13
400	100' span, 100 kip			1500	.021		.51	.93	.02	1.46	2.10
1450	300 kip			1650	.019		.51	.84	.02	1.37	1.96
1600	200' span, 100 kip			1500	.021		.51	93	.02	1.46	2.10

60

	35 29 – Tooled Concrete Finishing		Dath	Lahan	and the second second	and the second second second second	2008 Bo	and Conto	1	Total
12 21	5 29.30 Finishing Floors	Crew	Output	Labor- Hours	Unit	Material	Labor	Equipment	Total	Incl O&P
010	FINISHING FLOORS		In Sta							
020	Manual screed finish	C-10	4800	.005	S.F.		.17	and the second	.17	.26
100	Manual screed and bull float		4000	.006			.21		.21	.3
125	Manual screed, bull float, manual float		2000	.012		second of	.42		.42	.62
150	Manual screed, bull float, manual float & broom finish		1850	.013			.45		.45	.67
200	Manual screed, bull float, manual float, manual steel trowel	*	1265	.019			.66		.66	.98
250	Manual screed, bull float, machine float & trowel (walk-behind)	C-10C	1715	.014			.49	.02	.51	.70
300	Power screed, bull float, machine float & trowel (walk-behind)	C-10D	2400	.010			.35	.04	.39	.57
350	Power screed, bull float, machine float & trowel (ride-on)	C-10E	4000	.006			.21	.06	.27	.37
400	Integral topping and finish, using 1:1:2 mix, 3/16" thick	C-10B	1000	.040	N 20	.08	1.32	.23	1.63	2.34
450	1/2" thick		950	.042		.21	1.39	.24	1.84	2.60
500	3/4" thick		850	.047		.32	1.55	.27	2.14	3
600	1" thick		750	.053		.43	1.76	.31	2.50	3.47
800	Granolithic topping, laid after, 1:1:1-1/2 mix, 1/2" thick		590	.068		.24	2.23	.39	2.86	4.08
820	3/4" thick		580	.069		.36	2.27	.40	3.03	4.29
850	1" thick		575	.070		.48	2.29	.40	3.17	4.4
950	2" thick		500	.080		.96	2.64	.46	4.06	5.5
200	Heavy duty, 1:1:2, 3/4" thick, preshrunk, gray, 20 MSF		320	.125		.32	4.12	.72	5.16	7.40
300	100 MSF		380	.105		.32	3.47	.60	4.39	6.25
600	Exposed local aggregate finish, minimum	1 Cefi	625	.013		.21	.47		.68	.9
650	Maximum		465	.017		.31	.64		.95	1.2
800	Floor abrasives, .25 psf, aluminum oxide		850	.009		.35	.35		.70	.90
850	Silicon carbide		850	.009		.49	.35		.84	1.05
000	Floor hardeners, metallic, light service, .50 psf, add		850	.009		.48	.35	and players a difference	.83	1.04
050	Medium service, .75 psf		750	.011		.72	.39	新学校で	1.11	1.38
100	Heavy service, 1.0 psf	Section 1	650	.012		.96	.46		1.42	1.73
150	Extra heavy, 1.5 psf	AS 4 4 4	575	.014		1.45	.51		1.96	2.3
300	Non-metallic, light service, .50 psf		850	.009		.17	.35	The second	.52	.70
350	Medium service, .75 psf	-	750	.011		.26	.39		.65	.87
400	Heavy service, 1.00 psf		650	.012		.35	.46		.81	1.0
450	Extra heavy, 1.50 psf	-	575	.014	7	.52	.51		1.03	1.3
800	Trap rock wearing surface for monolithic floors									
810	2.0 psf	C-10B	1250	.032	S.F.	.03	1.05	.18	1.26	1.83
000	Floor coloring, dusted on, minimum (0.6 psf), add to above	1 Cefi	1300	.006		.39	.23	a desta de	.62	.70
050	Maximum (1.0 psf), add to above	"	625	.013	-	.65	.47	1 Standard	1.12	1.4:
100	Colored powder only			the state	Lb.	.65			.65	.7:
600	1/2" topping using 0.6 psf powdered color	C-10B		.068	S.F.	5.05	2.23	.39	7.67	9.3
650	1/2" topping using 1.0 psf powdered color	"	590	.068		5.30	2.23	.39	7.92	9.6
800	Dustproofing, solvent-based, 1 coat	1 Cefi		.004		.16	.16		.32	.40
850	2 coats		1300	.006		.56	.23		.79	.9
1000	Epoxy-based, 1 coat		1500		P. Pri	.12	.20		.32	.4:
1050	2 coats		1500		979 - Sa	.25	.20	THE REAL	.45	.5
1400	' Stair finish, float		275	.029	2.0		1.08		1.08	1.58
1500	Steel trowel finish		200	.040			1.48		1.48	2.17
4600	Silicon carbide finish, .25 psf	7	150	.053	*	.35	1.97		2.32	3.29
33	5 29.35 Control Joints, Saw Cut									
0010	CONTROL JOINTS, SAW CUT									
0100	Sawcut in green concrete								184 - L	
120	1" depth	C-27	2000		L.F.	.06	.30		.43	.57
0140	1-1/2" depth		1800			.10	.33		.51	.67
0160	2" depth	7	1600			.13	.37	.08	.58	.77
0200	Clean out control joint of debris	C-28	6000	.001	17		.05		.05	.07

3 24 05 – Reinforcing Fibers	-	Daily	Labor-			2008	Bare Costs		Total
3 24 05.30 Synthetic Fibers	Crew	Output	Hours	Unit	Material	Labor	Equipment	Total	Incl O&P
10 SYNTHETIC FIBERS					2.00			2.00	
Synthetic fibers, add to concrete 110 1-1/2 lb. per C.Y.				Lb. C.Y.	3.98 6.15			3.98 6.15	4.: 6.:
3 24 05.70 Steel Fibers	-								
10 STEEL FIBERS	2.3		1					19.00	
50 Steel fibers, add to concrete		l Inc. 1		Lb.	.46			.46	:
155 25 lb. per C.Y.	18 19 A			C.Y.	11.50			11.50	12.6
160 50 lb. per C.Y.					23		11:13 三級目	23	25.5
75 lb. per C.Y.					35.50			35.50	39
80 100 lb. per C.Y.				*	46		1	46	50.5

0010	CONCRETE IN TEACE		R		100 100					and the second sec	
0020	Including forms (4 uses), reinforcing steel, concrete, placement,			Lu ma							
0050	and finishing unless otherwise indicated	R033053-50			100			and south at		南部的法国	
0300	Beams, 5 kip per L.F., 10' span		C-14A	15.62	12.804	C.Y.	315	490	48.50	853.50	1,22
0350	25' span		"	18.55	10.782		325	415	40.50	780.50	1,100
0500	Chimney foundations, industrial, minimum		C-14C	32.22	3.476		145	127	.76	272.76	370
0510	Maximum	R033105-80	"	23.71	4.724		172	173	1.04	346.04	475
0700	Columns, square, 12" x 12", minimum reinforcing		C-14A	11.96	16.722		335	640	63	1,038	1,525
0720	Average reinforcing			10.13	19.743		530	755	74.50	1,359.50	1,92
0740	Maximum reinforcing			9.03	22.148		795	850	83.50	1,728.50	2,37
0800	16" x 16", minimum reinforcing			16.22	12.330		269	475	46.50	790.50	1,12
0820	Average reinforcing			12.57	15.911		455	610	60	1,125	1,600
0840	Maximum reinforcing			10.25	19.512		700	750	73.50	1,523.50	2,100
0900	24" x 24", minimum reinforcing			23.66	8.453		231	325	32	588	830
0920	Average reinforcing			17.71	11.293		410	435	42.50	887.50	1,225
0940	Maximum reinforcing			14.15	14.134		645	540	53.50	1,238.50	1,675
1000	36" x 36", minimum reinforcing			33.69	5.936		205	228	22.50	455.50	630
020	Average reinforcing			23.32	8.576		360	330	32.50	722.50	97
1040	Maximum reinforcing		Con Alle	17.82	11.223	09	605	430	42.50	1,077.50	1,42
1200	16" diameter, minimum reinforcing			31.49	6.351		268	244	24	536	72
1220	Average reinforcing			19.12	10.460		465	400	39.50	904.50	1,225
240	Maximum reinforcing			13.77	14.524		695	555	55	1,305	1,750
1300	20" diameter, minimum reinforcing		1	41.04	4.873		265	187	18.35	470.35	620
1320	Average reinforcing			24.05	8.316		445	320	31.50	796.50	1,050
340	Maximum reinforcing			17.01	11.758		695	450	44.50	1,189.50	1,57
400	24" diameter, minimum reinforcing			51.85	3.857		251	148	14.55	413.55	540
420	Average reinforcing			27.06	7.391		445	284	28	757	990
440	Maximum reinforcing			18.29	10.935		. 685	420	41	1,146	1,500
500	36" diameter, minimum reinforcing			75.04	2.665		254	102	10.05	366.05	460
520	Average reinforcing			37.49	5.335		425	205	20	650	830
540	Maximum reinforcing		7	22.84	8.757		665	335	33	1,033	1,325
900	Elevated slabs, flat slab with drops, 125 psf Sup. Load, 20' span	¢.	C-14B	38.45	5.410		263	207	19.60	489.60	65
950	30' span			50.99	4.079	11	275	156	14.75	445.75	575
100	Flat plate, 125 psf Sup. Load, 15' span			30.24	6.878		242	264	25	531	730
150	25' span			49.60	4.194		249	161	15.20	425.20	555
300	Waffle const., 30" domes, 125 psf Sup. Load, 20' span			37.07	5.611		375	215	20.50	610.50	79(
350	30' spon			44.07	4.720		335	181	17.10	533.10	685

JC-X	10 53 - Miscellaneous Cast-In-Place C	oncrete			an the same					
			Daily				2008 Bo		No. of the second s	Total
	53.40 Concrete In Place	Crev		t Hours		Material	Labor	Equipment	Total	Incl 0&
2500	One way joists, 30" pans, 125 psf Sup. Load, 15' span	C-14		8 7.597	1 .	450	291	27.50	768.50	1,000
2550	25' span			6.677	10 1 3	410	256	24	690	905
700	One way beam & slab, 125 psf Sup. Load, 15' span	destruction and the re-		10.10		264	385	36.50	685.50	970
750	25' span		THE STREET	7.334		246	281	26.50	553.50	765
900	Two way beam & slab, 125 psf Sup. Load, 15' span		A STATE OF THE REAL	8.652	10.25	253	330	31.50	614.50	865
750	25' span	1. A A A A A A A A A A A A A A A A A A A	35.87	5.799	*	216	222	21	459	630
100	Elevated slabs including finish, not		12/20		No.				612 S.M	
110	including forms or reinforcing	1	0/10	001	-	1.07	70			
150	Regular concrete, 4" slab	C-8	2613	1	S.F.	1.36	.73	.28	2.37	2
200	6" slab		2585			2.02	.73	.28	3.03	3
250	2-1/2" thick floor fill	ANT	2685	.021	10000000	.87	.71	.27	1.85	2
00	Lightweight, 110# per C.F., 2-1/2" thick floor fill		2585			1.19	.73	.28	2.20	2
00	Cellular concrete, 1-5/8" fill, under 5000 S.F.		2000	.028		.79	.95	.36	2.10	2
50	Over 10,000 S.F.		2200	.025		.76	.86	.33	1.95	2
00	Add per floor for 3 to 6 stories high	AND AND A	31800				.06	.02	.08	
20	For 7 to 20 stories high		21200				.09	.03	.12	
40	Equipment pad, 3' x 3' x 6" thick	C-14H	1	1.067	Ea.	45.50	40.50	.55	86.55	117
50	4' x 4' x 6" thick		30	1.600		67	60.50	.83	128.33	174
60	5' x 5' x 8" thick	errore lander	18	2.667		116	101	1.39	218.39	296
70	6' x 6' x 8" thick		14	3.429		157	129	1.78	287.78	390
80	8' x 8' x 10" thick		8	6	13	330	227	3.12	560.12	745
90	10' x 10' x 12" thick	+	5	9.600		560	365	4.99	929.99	1,225
00	Footings, spread under 1 C.Y.	C-14C	28	4	C.Y.	173	146	.88	319.88	435
25	1 C.Y to 5 C.Y.		43	2.605		192	95.50	.57	288.07	370
50	Over 5 C.Y.	-	75	1.493		176	54.50	.33	230.83	285
00	Footings, strip, 18" x 9", unreinforced	C-14L	40	2.400		119	85.50	.62	205.12	273
20	18" x 9", reinforced	C-14C	35	3.200	-	142	117	.70	259.70	350
25	20" x 10", unreinforced	C-14L	45	2.133		117	76	.55	193.55	254
30	20" x 10", reinforced	C-14C	40	2.800		135	103	.62	238.62	320
35	24" x 12", unreinforced	C-14L	55	1.745		115	62	.45	177.45	228
10	24" x 12", reinforced	C-14C	48	2.333		133	85.50	.51	219.01	290
15	36" x 12", unreinforced	C-14L	70	1.371		112	49	.36	161.36	204
50	36" x 12", reinforced	C-14C	60	1.867		128	68.50	.41	196.91	254
00	Foundation mat, under 10 C.Y.		38.67	2.896		197	106	.64	303.64	395
50	Over 20 C.Y.	+	56.40			173	72.50	.44	245.94	310
00	Grade walls, 8" thick, 8' high	C-14D	45.83	1.1		177	166	16.45	359.45	485
0	14' high		27.26	Contraction of the		228	279	27.50	534.50	740
0	12" thick, 8' high		64.32			158	118	11.70	287.70	380
0	14' high		40.01	4.999		179	190	18.85	387.85	535
0	15" thick, 8' high		80.02			149	95	9.40	253.40	330
0	12' high		51.26			158	148	14.70	320.70	435
0	18' high		48.85		*	175	155	15.45	345.45	465
0	Handicap access ramp, railing both sides, 3' wide	C-14H	14.58		L.F.	251	124	1.71	376.71	485
5	5' wide	Same Inter	12.22			259	148	2.04	409.04	530
0	With 6" curb and rails both sides, 3' wide		8.55			259	212	2.92	473.92	640
5	5' wide	+	7.31	6.566		264	248	3.41	515.41	705
0	Slab on grade, not including finish, 4" thick	C-14E	60.75	1.449	C.Y.	122	55	.41	177.41	226
0	6" thick	"	92	.957	"	117	36	.27	153.27	190
1	Slab on grade, incl. troweled finish, not incl. forms									
0	or reinforcing, over 10,000 S.F., 4" thick	C-14F	3425	.021	S.F.	1.34	.74	.01	2.09	2.6
0	6" thick		3350	.021		1.95	.75	.01	2.71	3.3
0	8" thick		3184	.023		2.67	.79	.01	3.47	4.2
0	12" thick		2734			4.01	.92	.01	4.94	5.9

	The Dissing Congrets	Crew	Daily Output	Labor- Hours	Unit	Material	2008 Bar Labor	e Costs Equipment	Total	Total
	05.70 Placing Concrete With crone and bucket	(iew	80	.900	C.Y.	MUTETICI	29.50	14.85	44.35	Incl 0&P 64.5
3800	Pile cap, 5 C.Y. to 10 C.Y., direct chute	(-6	175	.274			8.70	.28	8.98	14.5
3850	Pumped	C-20	200	.320	1000	COLUMN TO THE	10.40	3.89	14.29	21.5
3900	With crane and bucket	(-7	150	.480			15.75	7.90	23.65	34
3950	Over 10 C.Y., direct chute	C-6	215	.223			7.10	.23	7.33	11.9
4000	Pumped	C-20	240	267			8.70	3.24	11.94	17.7
4050	With crane and bucket	67	185	.389	38	STATISTICS.	12.80	6.40	19.20	28
1100	Slab on grade, up to 6" thick, direct chute	(-6	110	.436			13.85	.45	14.30	20
1300	Sing on group, op to o mick, unext choice Pumped	C-20	130	.492		the second	16	6	22	32.5
1350	With crone and bucket	(-7	110	.655			21.50	10.80	32.30	47
400	Over 6" thick, direct chute	(-6	165	.033		an and a state of	9.20	.30	9.50	4/
600	Pumped	6-20	185	.346			11.25	4.20	15.45	23
650	With crane and bucket	6.7	145	.340			16.30	8.20	24.50	35.50
700		(-6	90	.533			16.90	.55	0.000	28
900	Walls, 8" thick, direct chute	AND REAL PROPERTY OF A DESCRIPTION OF A	100		enterra	ALTER CONTRACT	CONTRACTOR OF A DESCRIPTION OF A DESCRIP	Contractory of the local division of the loc	17.45	
950	Pumped With crane and bucket	C-20	1.000	.640			21	7.80	28.80	42.50
000	and the second	(7	80	.900			29.50	14.85	44.35	64.5
050	12" thick, direct chute	6.6	100	.480			15.20	.49	15.69	25.50
100	Pumped	C-20	110	.582		E-ALLEONALS	18.95	7.05	26	39
200	With crane and bucket	C-7	90	.800			26.50	13.20	39.70	57
300	15" thick, direct chute	C-6	105	.457			14.50	.47	14.97	24.50
350	Pumped	C-20	120	.533			17.35	6.50	23.85	35.50
400	With crone and bucket	(-7	95	.758	-		25	12.50	37.50	54.50
600	Wheeled concrete dumping, add to placing costs above						-			
610	Walking cart, 50° haul, add	C-18	32	.281	C.Y.		8.55	1.76	10.31	16.15
620	150' houl, add		24	.375			11.45	2.35	13.80	21.50
700	250' houl, add	*	18	.500			15.25	3.14	18.39	28.50
800	Riding cart, 50' haul, add	C-19	80	.113			3.43	1.06	4.49	6.85
810	150' haul, add		60	.150			4.57	1.41	5.98	9.10
900	250' haul, add	*	45	.200	*		6.10	1.88	7.98	12.15
000	Minimum labor/equipment charge	C-6	2	24	Job		760	24.50	784.50	1,275

03 35 Concrete Finishing

03 35 29 - Tooled Concrete Finishing

03 35	29.30	Finishing	Floors
0010			

0010	FINISHING FLOORS		1.8		1	181 BA	24	S. State I	1000	14.5
0020	Manual screed finish	C-10	4800	.005	S.F.		.17		.17	.28
0100	Manual screed and bull float		4000	.006	1		.21	1000	.21	.33
0125	Manual screed, bull float, manual float		2000	.012			.42		.42	.66
0150	Manual screed, bull float, manual float & broom finish		1850	.013			.45		.45	.72
0200	Manual screed, bull float, manual float, manual steel trowel	7	1265	.019			.66		.66	1.05
0250	Manual screed, bull float, machine float & trawel (walk-behind)	C-10C	1715	.014			.49	.02	.51	.80
0300	Power screed, bull float, machine float & trowel (walk-behind)	C-10D	2400	.010			.35	.04	.39	.60
0350	Power screed, bull float, machine float & trowel (ride-on)	C-10E	4000	.006	+		.21	.06	.27	.39
0370	Minimum labor/equipment charge	C-10	2	12	Job	1	415		415	665
0400	Integral topping and finish, using 1:1:2 mix, 3/16" thick	C-108	1000	.040	S.F.	.08	1.32	.23	1.63	2.47
0450	1/2" thick		950	.042		.21	1.39	.24	1.84	2.74
0500	3/4" thick		850	.047		.32	1.55	.27	2.14	3.16
0600]" thick		750	.053		.43	1.76	.31	2.50	3.65
0800	Granolithic topping, laid after, 1:1:1-1/2 mix, 1/2" thick		590	.068		.24	2.23	.39	2.86	4.30
0820	3/4" thick		580	.069		.36	2.27	.40	3.03	4.51
0850	1" thick		575	.070	-	.46	2.29	.40	3.17	4.68
					-					83

alla fielder	1 19 - Open Web Steel Joist Framing	A CONTRACTOR OF	Carl Barrys	Contraction of the	CT STORE		Children and Children and	A MILLION AND AND AND A	1	Tri
		Crew	Daily Output	Labor- Hours	Unit	Material	2008 Ba Labor	re Costs Equipment	Total	Total Incl 0&P
	19.10 Open Web Joists K series, 40-ton lots, horiz. bridging, spans to 30', shop primer, minimum	E-7	15	5.333	Ton	1,350	226	122	1,698	2,025
020	Average		12	6.667		1,500	283	153	1,936	2,325
080	Maximum		9	8.889	-	1,825	375	203	2,403	2,900
130	8K1, 5.1 Lb/LF	Shire parts parts	1200	.067	L.F.	3.85	2.83	1.53	8.21	11.0
140	10K1, 5.0 Lb/LF		1200	.067		3.78	2.83	1.53	8.14	11
160	12K3, 5.7 Lb/LF		1500	.053		4.31	2.26	1.22	7.79	10.2
180	14K3, 6.0 Lb/LF		1500	.053		4.53	2.26	1.22	8.01	10.4
200	16K3, 6.3 Lb/LF	HUJEN B	1800	.044	1	4.76	1.88	1.02	7.66	9.8
1220	16K6, 8.1 Lb/LF		1800	.044		6.10	1.88	1.02	9	11.
240	18K5, 7.7 Lb/LF		2000	.040		5.80	1.70	.92	8.42	10.5
1260	18K9, 10.2 Lb/LF		2000	.040	4	7.70	1.70	.92	10.32	12.
)410	Span 30' to 50', minimum	New Property Colorest	17	4.706	Ton	1,325	200	108	1,633	1,925
440	Average		17	4.706		1,475	200	108	1,783	2,100
460	Maximum		10	8	+	1,575	340	183	2,098	2,550
500	20K5, 8.2 Lb/LF		2000	.040	L.F.	6.10	1.70	.92	8.72	10.
520	20K9, 10.8 Lb/LF		2000	.040		8	1,70	.92	10.62	12.
540	22K5, 8.8 Lb/LF		2000	.040		6.55	1.70	.92	9.17	11.
560	22K9, 11.3 Lb/LF		2000	.040		8.40	1.70	.92	11.02	13.
580	24K6, 9.7 Lb/LF		2200	.036		7.20	1.54	.83	9.57	11.
600	24K10, 13.1 Lb/LF		2200	.036		9.70	1.54	.83	12.07	14.
620	26K6, 10.6 Lb/LF		2200	.036		7.85	1.54	.83	10.22	12.
640	26K10, 13.8 Lb/LF		2200	.036		10.25	1.54	.83	12.62	15
660	28K8, 12.7 Lb/LF		2400	.033		9.40	1.41	.76	11.57	13.
0680	28K12, 17.1 Lb/LF		2400	.033		12.70	1.41	.76	14.87	17.
700	30K8, 13.2 Lb/LF		2400	.033		9.80	1.41	.76	11.97	14.
0720	30K12, 17.6 Lb/LF		2400	.033		13.05	1.41	.76	15.22	17.
0080	For less than 40-ton job lots		P. DEL		和法				的制度管理	
0802	For 30 to 39 tons, add					10%		-		
0804	20 to 29 tons, add					20%				
0806	10 to 19 tons, add			0		30%				
0807	5 to 9 tons, add		1			50%	25%	In get the pattern water	-Jan Grid Mater Patrice	
8080	1 to 4 tons, add					75%	50%			
0809	Less than 1 ton, add					100%	100%			
1010	CS series, 40-ton job lots, horizontal bridging, shop primer		a starter				Section 2			
1020	Spans to 30', minimum	E-7	15	5.333	Ton	1,400	226	122	1,748	2,075
1040	Average		12	6.667		1,550	283	153	1,986	2,375
1060	Maximum		9	8.889	-	1,825	375	203	2,403	2,900
1100	10CS2, 7.5 Lb/LF		1200	.067	L.F.	5.80	2.83	1.53	10.16	13
1120	12CS2, 8.0 Lb/LF		1500		1	6.20	2.26	1.22	9.68	12
1140	14CS2, 8.0Lb/LF		1500			6.20	2.26	1.22	9.68	12
160	16CS2, 8.5 Lb/LF		1800		(Sec.)	6.60	1.88	1.02	9.50	11
180	16CS4, 14.5 Lb/LF		1800		P.F.	11.25	1.88	1.02	14.15	16
1200	18CS2, 9.0 Lb/LF		2000			7	1.70	.92	9.62	11
220	18CS4, 15.0 Lb/LF		2000			11.65	1.70	.92	14.27	16
1240	20CS2, 9.5 Lb/LF		2000			7.35	1.70	.92	9.97	12
1260	20CS4, 16.5 Lb/LF		2000			12.80	1.70	.92	15.42	18
1280	22CS2, 10.0 Lb/LF		2000			7.75	1.70	.92	10.37	12
300	22CS4, 16.5 Lb/LF		2000			12.80	1.70	.92	15.42	18
1320	24CS2, 10.0 Lb/LF		2200			7.75	1.54	.83	10.12	
1340	24CS4, 16.5 Lb/LF		2200			12.80	1.54	.83	15.17	
360	26CS2, 10.0 Lb/LF		2200			7.75	1.54	.83	10.12	
380	26CS4, 16.5 Lb/LF		2200			12.80	1.54	.83	15.17	
1400	28CS2, 10.5 Lb/LF		2400	.033	1 1	8.15	1.41	.76	10.32	12

	31 Steel Decking 31 13 – Steel Floor Decking			Ser.	- Crester				
			Daily	Labor			2008 Bare	Costs	
	1 13.50 Floor Decking	Crew	Outpu	t Hours	s Unit	Material	Labor	Equipment	Total
4700	1 99-90	E-4	1490	.021	S.F.	8.05	.93	.09	9.0
4800	For painted instead of galvanized, deduct		1	1	1	2%	1		
6000	For acoustical perforated, with fiberglass, add		1	1	S.F.	1.09			1.0
200	Non-cellular composite deck, galv., 2" deep, 22 gauge	E4	3860	PERMIT	Sha	1.53	.36	.03	1.9
300	20 gauge	E Stat	3600			1.69	.39	.04	2.1
5400	18 gauge	S. EL	3380		R	2.15	.41	.04	2.6
500	16 gauge	S. S. S.	3200	1000	100	2.69	.44	.04	3.1
700	3" deep, galv., 22 gauge		3200	.010		1.67	.44	.04	2.15
5800	20 gauge		3000	.011		1.86	.46	.04	2.3
900	18 gauge		2850			2.29	.49	.05	2.83
000	16 gauge		2700	.012	4	3.06	.52	.05	3.63
000	Minimum labor/equipment charge	1 Ssw	k 1	8	Job	出现性。	345		345
	31 23 - Steel Roof Decking						38		
1.	1 23.50 Roof Decking			-					
010	ROOF DECKING	新日期 市				1.4		105.23	E. Salan
100	Open type, galv., 1-1/2" deep wide rib, 22 gauge, under 50 squares	E-4	4500	.007	S.F.	1.61	.31	.03	1.95
400	Over 500 squares		5100	.006		1.16	.27	.03	1.46
600	20 gauge, under 50 squares		3865	.008		1.89	.36	.03	2.28
700	Over 500 squares		4300	.007		1.36	.32	.03	1.71
900	18 gauge, under 50 squares		3800	.008		2.45	.37	.03	2.85
000	Over 500 squares		4300	.007		1.76	.32	.03	2.11
050	16 gauge, under 50 squares		3700	.009		3,30	.38	.04	3.72
100	Over 500 squares		4200	.008	-	2.37	.33	.03	2.73
)5 3	31 33 - Steel Form Decking			1918		104 10	a de la co	S. A. S. P. S.	SIL SI
5 31	33.50 Form Decking								
010	FORM DECKING	and the				1.2.4		AN E	A Partie
100	Slab form, steel, 28 gauge, 9/16" deep, uncoated	E-4	4000	.008	S.F.	1.07	.35	.03	1.45
200	Galvanized		4000	.008		.95	.35	.03	1.33
220	24 gauge, 1" deep, uncoated	N. C. S. C.	3900	.008		1.17	.36	.03	1.56
240	Galvanized		3900	.008		1.38	.36	.03	1.77
300	24 gauge, 1-5/16" deep, uncoated		3800	.008		1.25	.37	.03	1.65
00	Galvanized		3800	.008		1.47	.37	.03	1.87
00	22 gauge, 1-5/16" deep, uncoated		3700	.009		1.57	.38	.04	1.99
00	Galvanized		3700	.009	The second	1.60	.38	.04	2.02
00	22 gauge, 2" deep uncoated	Cont of the	3600	.009	PLI	2.05	.39	.04	2.48
00	Galvanized		3600	.009	-	2.01	.39	.04	2.44
00	Sheet metal edge closure form, 12" wide with 2 bends, adv	Y						.04	2.94
00	18 gouge	E-14	360	.022	L.F.	3.32	1	.37	4.69
200	16 gauge		360	.022	"	4.50	1	.37	4.07

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U	Activity Name	Original Start Duration	Finish	Dec	Jan	Feb	Mar	Apr	May	Jun	2007 Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	∠ Jun	2008 Jul	Aug
ales	side at King Farm-Joseph Podwats	549 07-Dec-06	15-Jan-09		- Carr							, ag	Cop			200	- Call				inay			, ag
	Construction NTP	0 07-Dec-06*		Const	ruction NT	P																		
	Start Mobilize On Site	0 03-Jan-07*		_	Start N	- i	Site																	
	Sitework	39 10-Jan-07*	05-Mar-07	_			Sitewo	ork		-	-													
	Mass Excavation	25 30-Jan-07	05-Mar-07	_				Excavatio	n															
5	Complete Tower Crane #1 Pad & Crane Erection	0	02-Mar-07*				Comple	te Tower	Crane #1 Pa	ad & Crane	Erection													
6	Batch Plant Assembly & Erection	5 08-Mar-07*	15-Mar-07	_			📕 Ba	tch Plant	Assembly &	Erection	-													
	Footings/Foundations	83 15-Mar-07*	10-Jul-07	_				;		;	Foot	ings/Found	ations											
8	Slab on Grade	25 22-Mar-07	26-Apr-07	_					Slab on G	Frade		-												
10	Complete Tower Crane #2 Pad & Crane Erection	0	01-May-07*	·					Comple	te Tower C	rane #2 Pa	ad & Crane	Frection					1						
25	Elevators	200 03-Jul-07	08-Apr-08				1			ſ	+	-j	· • • • • • • • • • • • • • • • • • • •		· · · · · · · · · · · · · · · · · · ·		÷			Eleva	ators			
37	Interior Walls Framing Garage	15 24-Jul-07	13-Aug-07	_									rior Walls	Framing G	arage									
45	Interior Walls Framing 1st Floor	15 07-Aug-07	28-Aug-07										Hinterior V	Valls Fram	ng 1st Flo	or i								
50	Erect Material Hoist	7 09-Aug-07	20-Aug-07*	r -								E	rect Mater	ial Hoist	-									
53	Exterior Walls - 1st Floor	22 14-Aug-07	13-Sep-07	_									Ext	erior Walls	1st Floor									
59	Exterior Enclosure (Original Anticipated)	153 28-Aug-07*	27-Mar-08							1			· j	-j	· ;		÷		;	Exterior	- Enclosure (Original Ar	ticipated)	
70	Interior Walls Framing 2nd Floor	15 18-Sep-07	09-Oct-07				Í						ii 🗖	- 	İqr Walls F	raming 2nd	Floor							
71	Deliver/Install Emergency Generator	1 19-Sep-07*	19-Sep-07	_									10	eliver/Inst	all Emerge	ncy Genera	tor	-					-	
77	Exterior Walls - 2nd Floor	22 25-Sep-07	25-Oct-07										i -		Exterior V	/alls - 2nd I	loor	-						
94	Interior Walls Framing 3rd Floor	15 30-Oct-07	20-Nov-07												-	nterior Wal	s Framing	3rd Floor						
101	Exterior Walls - 3rd Floor	22 06-Nov-07	06-Dec-07							1					-	Exteri	or Walls - 3	rd Floor						
119	Interior Walls Framing 4th Floor	15 11-Dec-07	01-Jan-08		1												i⊲ nterior \	Ņalls Fra	ming 4th Fl	oor		1	1	1
125	Exterior Walls - 4th Floor	22 18-Dec-07	17-Jan-08	_												r >	E×	terior Wa	ulls - 4th Flo	or				
143	Interior Walls Framing 5th Floor	15 22-Jan-08	12-Feb-08								-							int	erior Walls	Framing 5t	h Floor			
150	Exterior Walls - 5th Floor	22 29-Jan-08	28-Feb-08														: r=1		Exterior	Walls - 5th	Floor			
160	Exterior Walls - 6th Floor	22 12-Feb-08	13-Mar-08															[*	Ext	terior Walls	+ 6th Floor			
168	Interior Walls Framing 7th Floor	15 27-Feb-08	19-Mar-08	_														-	· 🛄 🛛	nterior Wall	s Framing	7th Floor		
172	Interior Walls Framing 6th Floor	15 04-Mar-08	25-Mar-08																	Interior W	alls Framir	g 6th Floo	r	
202	Tower Crane # 1 & 2 Disassemble	10 15-Sep-08*	26-Sep-08		1						1				1			1			-			1
203	Substantial Completion	0	15-Jan-09*																					
Fini	ishes	260 21-Aug-07	19-Aug-08									-	:		:			:					1	
56	Finishes Area 1 - Garage	7 21-Aug-07	30-Aug-07								-		Finishes	Area 1 - C	arage									
62	Finishes Area 2 - Garage	7 30-Aug-07	10-Sep-07	_										shes Area :	- Garage									
65	Finishes Area 3 - Garage	7 10-Sep-07	19-Sep-07	-							-			inishes Are		ge								
74	Finishes Area 4 - Garage	7 19-Sep-07	28-Sep-07											Finishes	Årea 4 - G	arage								
80	Finishes Area 5 - Garage	7 28-Sep-07	09-Oct-07											🛄 Finis	hes Area 5	- Garage	÷							
87	Finishes Area 1 - 1st Floor	7 16-Oct-07	25-Oct-07								-					rea 1 - 1st	Floor							
91	Finishes Area 2 - 1st Floor	7 25-Oct-07	05-Nov-07	_											Finish	es Area 2 -	1st Floor							
98	Finishes Area 3 - 1st Floor	7 05-Nov-07	14-Nov-07	_											Fir	ishes Area	3 - 1st Floo	or l						
1	Finishes Area 4 - 1st Floor	7 14-Nov-07	23-Nov-07	-												Finishes A	rea 4 - 1st I	loor						
	Finishes Area 5 - 1st Floor	7 23-Nov-07		1	+			+				** + * + *	· ;	†		Finishes A	s Area 5 -	1 st Floor					+	
	Finishes Area 1 - 2nd Floor	7 27-Nov-07					-								1	Finish		1						
	Finishes Area 2 - 2nd Floor	7 06-Dec-07	17-Dec-07	_													hishes Area						1	
	Finishes Area 3 - 2nd Floor	7 17-Dec-07	26-Dec-07														Finishes A							
1	Finishes Area 4 - 2nd Floor	7 26-Dec-07		_												-	 ∣Finishe	s Area 4	- 2nd Floor					
		7 04-Jan-08	15-Jan-08							1		** 	· ; · · · · · ·	†- -	₿ 	;··· ····Ē	Fin	ishes Are	a 5 - 2nd F	lapr			+	
1	Finishes Area 5 - 2nd Floor			-	1														ea 1 - 3rd F					
1	Finishes Area 5 - 2nd Floor Finishes Area 1 - 3rd Floor	7 08-Jan-08	17-Jan-08					i	i i										s Área 2 - 3					
1 1 1			17-Jan-08 28-Jan-08	_											B I				hes Area 3	4	1			1
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1 1 1 1 1	Finishes Area 1 - 3rd Floor Finishes Area 2 - 3rd Floor	7 08-Jan-08 7 17-Jan-08	28-Jan-08																					
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20 F/R & PT/P Garage Columns & Deck Area 3 - 1st Floor 10	4 30-May-07	05-Jun-07				Str			o Area 2 - 1st Flo											
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21 F/R & PT/P 1st Floor Columns & Deck Area 2 - 2nd F 10	0 19-Jun-07	03-Jul-07					F/R & PT	Γ/Ρ st F	loor Columns &	Deck Area 2	2nd Floor									
22 Stress PT's for Deck Slab Area 1 - 2nd Floor 1	1 22-Jun-07	25-Jun-07				; L _P	Stress PT's	for Þecl	k \$lab Area 1 - 1	2nd Floor										
23 Strip & Reshore Deck Slab Area 1 - 2nd Floor 4	4 27-Jun-07	03-Jul-07					🕒 🛄 Strip & R	Reshore I	Deck Slab Area	1 2nd Floor										
24 F/R & PT/P Garage Columns & Deck Area 4 - 1st Floor 10	0 03-Jul-07	16-Jul-07							Garage Column											
27 F/R & PT/P 1st Floor Columns & Deck Area 3 - 2nd F 10	0 03-Jul-07*	17-Jul-07					F/R	& PT/P	1st Floor Colum	ns & Deck Are	a 3 - 2nd Floo	d								
28 Stress PT's for Deck Slab Area 3 - 1st Floor 1	1 06-Jul-07	06-Jul-07					FI Stress F	PT's for I	Deck Slab Area	3 1st Floor										
29 Stress PT's for Deck Slab Area 2 - 2nd Floor 1	1 06-Jul-07	09-Jul-07							r Deck Slab Area											
30 Strip & Reshore Deck Slab Area 3 - 1st Floor 4	4 11-Jul-07	16-Jul-07					🗕 🗖 Strip	o & Resh	hore Deck Slab	Area 3 1st Fl	or									
31 Strip & Reshore Deck Slab Area 2 - 2nd Floor 4	4 11-Jul-07	17-Jul-07					Strip	p & Rest	hore Deck Slab	Area 2 2nd F	oor									
32 F/R & PT/P Garage Columns & Deck Area 5 - 1st Floor 10	0 17-Jul-07	30-Jul-07						F/R & F	PT/P Garage Co	lumns & Deck	Area 5 - 1st F	loor								
33 F/R & PT/P 1st Floor Columns & Deck Area 4 - 2nd F 10	0 17-Jul-07	31-Jul-07					-	F/R & F	PT/P 1st Floor C	olumns & Dec	k Area 4 - 2nd	Floor							1	
34 F/R & PT/P 2nd Floor Columns & Deck Area 1 - 3rd 10	0 17-Jul-07*	31-Jul-07					│┊ └┼┉ ∰	F/R & F	PT/P 2nd Floor	Columns & De	k Area 1 - 3rd	Floor								
35 Stress PT's for Deck Slab Area 4 - 1st Floor 1	1 20-Jul-07	20-Jul-07					FI Str	ress PT's	s for Deck Slab	Area 4 1st Fl	or									
36 Stress PT's for Deck Slab Area 3 - 2nd Floor 1	1 20-Jul-07	23-Jul-07							F's for Deck Slab	Area 3 - 2nd	loor									
38 Strip & Reshore Deck Slab Area 4 - 1st Floor 4	4 25-Jul-07	30-Jul-07						Strip &	Reshore Deck	Slab Area 4 - 1	st Floor									
39 Strip & Reshore Deck Slab Area 3 - 2nd Floor 4	4 25-Jul-07	31-Jul-07							Reshore Deck										1	
40 F/R & PT/P 1st Floor Columns & Deck Area 5 - 2nd F 10	0 31-Jul-07	14-Aug-07					 	F/1	/R & PT/P 1st FI	oor Columns 8	Deck Area 5	2nd Floor								
41 F/R & PT/P 2nd Floor Columns & Deck Area 2 - 3rd 10	0 31-Jul-07	14-Aug-07					1 4		/R & PT/P 2nd F	loor Columns	Leck Area 2	3rd Floor								
42 Stress PT's for Deck Slab Area 5 - 1st Floor 1	1 03-Aug-07	03-Aug-07							s PT's for Deck											
	1 03-Aug-07						 	Stres	ss PT's for Deck	Slab Area 4 -	2nd Floor									
	1 03-Aug-07							Stres	ss PT's for Deck	Slab Area 1 -	βrd Floφr	t-ttt	<u> </u>							
	4 08-Aug-07	-						Sti	trip & Reshore D	eck Slab Area	5 - 1st Floor									
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12 στην α reshure Deck Slab Area 4 - Slu Fl001 4	- 19-3ep-07	20-0ch-01			<u>i</u>				Sti	h h izdalinie i			1						<u>i</u>	

Technical Assignment 2 - Detailed Project Schedule

ity ID	Activity Name	Original Start	Finish						1		2007			-																	
7	Strip & Reshore Deck Slab Area 1 - 4th Floor	4 19-Sep-07	25 Sop 07	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	A	ug	Sep		Oct trip & I		Nov				Ja			eb	Ma	4	Apr		May	Jun
	F/R & PT/P 3rd Floor Columns & Deck Area 3 - 4th Fl	10 25-Sep-07	· ·	-												1 1	- P								28-1	th Floo		l			
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	Stress PT's for Deck Slab Area 2 - 4th Floor	1 28-Sep-07		-	-									[l	-11	Stress	- P											l			
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| Roof Deck & Steel Mansard Frame - Area 4 | 1 11-Mar-08 | 12-Mar-08 |

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 | Steel Colu | imrs Ar | ea 4 <mark>-</mark> 7th F | Floor | | |
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| PT's for Deck Slab Area 5 - 7th Floor | 1 14-Mar-08 | 17-Mar-08 |

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 | tress PT's f | for Decl | Slab Area | a 5 - 7th Floo | or | |
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| oution Ductwork (includes risers) Garage | 65 22-May-07 | 21-Aug-07 |

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 | Garage | | | | | |
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| Primary/Secondary Electric Service | 46 29-May-07* | 31-Jul-07 |

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 | Install Prin | mary/Sec | ondary El | lectric Ser | vice

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| oution Ductwork (includes risers) 1st Floor | 65 03-Jul-07 | 02-Oct-07 |

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 | cludes ri | isers) 1 | st Floor | | | |
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| Distribution Piping - Garage | 10 07-Aug-07 | 21-Aug-07 |

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 |
| oution Ductwork (includes risers) 2nd Floor | 65 14-Aug-07 | 13-Nov-07 |

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 | on Ductw | vork (ind | ludes ris | ers) 2nd Flo
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| oution Ductwork (includes risers) 3rd Floor | 65 25-Sep-07 | 25-Dec-07 |

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 | risers) 3rd | l Floor | | | | |
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| Distribution Piping - 1st Floor | 10 02-Oct-07 | 16-Oct-07 |

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 | iping - 1 | 1st Floo | r | | | |
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| oution Ductwork (includes risers) 4th Floor | 65 06-Nov-07 | 05-Feb-08 |

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 | work (inclu | udes ris | ers) 4th Flo | oor | | |
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| Distribution Piping - 2nd Floor | 10 13-Nov-07 | 27-Nov-07 |

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 | C Distrib | oution F | 'iping - 2n | dFloor
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| oution Ductwork (includes risers) 5th Floor | 65 18-Dec-07 | 18-Mar-08 |

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| Distribution Piping - 3rd Floor | 10 25-Dec-07 | 08-Jan-08 |

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 | 3rd Floor | | | | | |
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 |
| oution Ductwork (includes risers) 6th Floor | 65 29-Jan-08 | 29-Apr-08 |

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| Distribution Piping - 4th Floor | 10 05-Feb-08 | 19-Feb-08 |

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 | ibution Pip | oiḥg - 4tl | n Floor | | | |
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| Distribution Piping - 5th Floor | 10 18-Mar-08 | 01-Apr-08 |

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 | 🖥 HVAÇI | Distribu | tion Piping | g - 5th Floor | | |
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| oution Ductwork (includes risers) 7th Floor | 65 19-Mar-08 | 18-Jun-08 |

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| Distribution Piping - 6th Floor | 10 29-Apr-08 | 13-May-08 |

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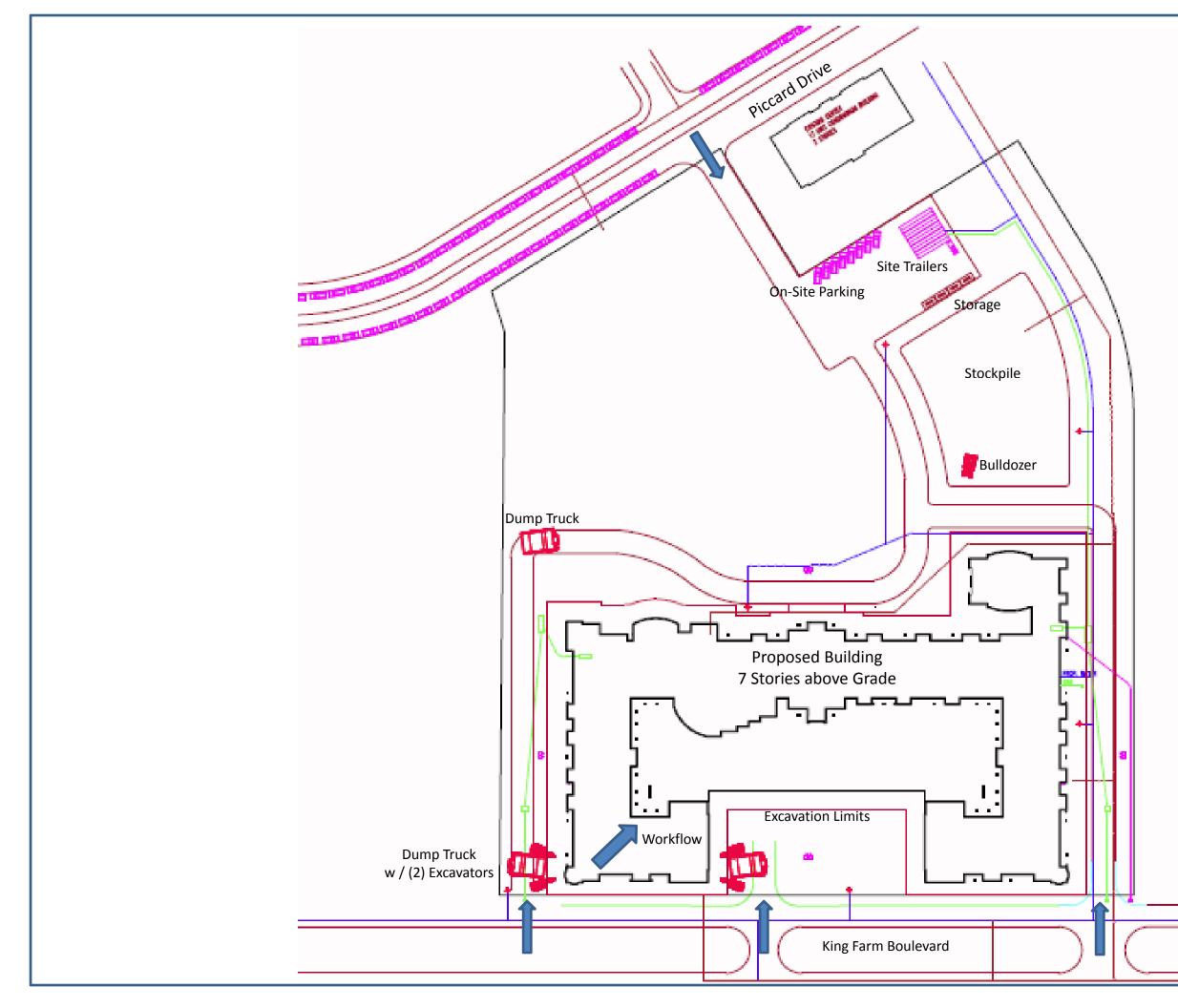
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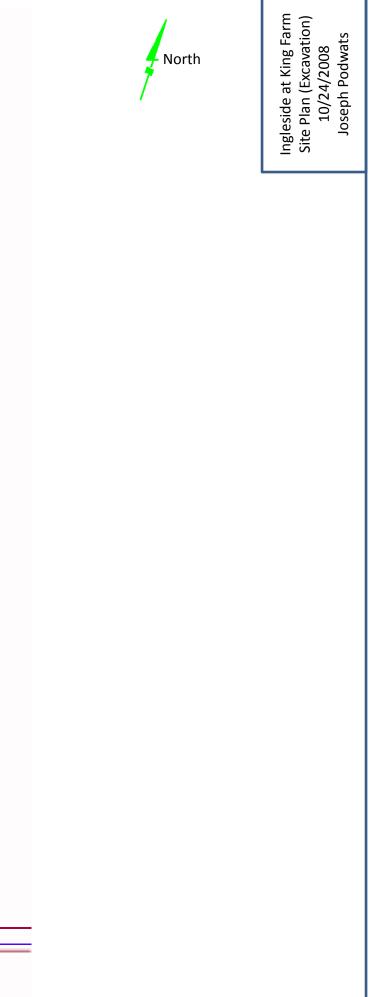
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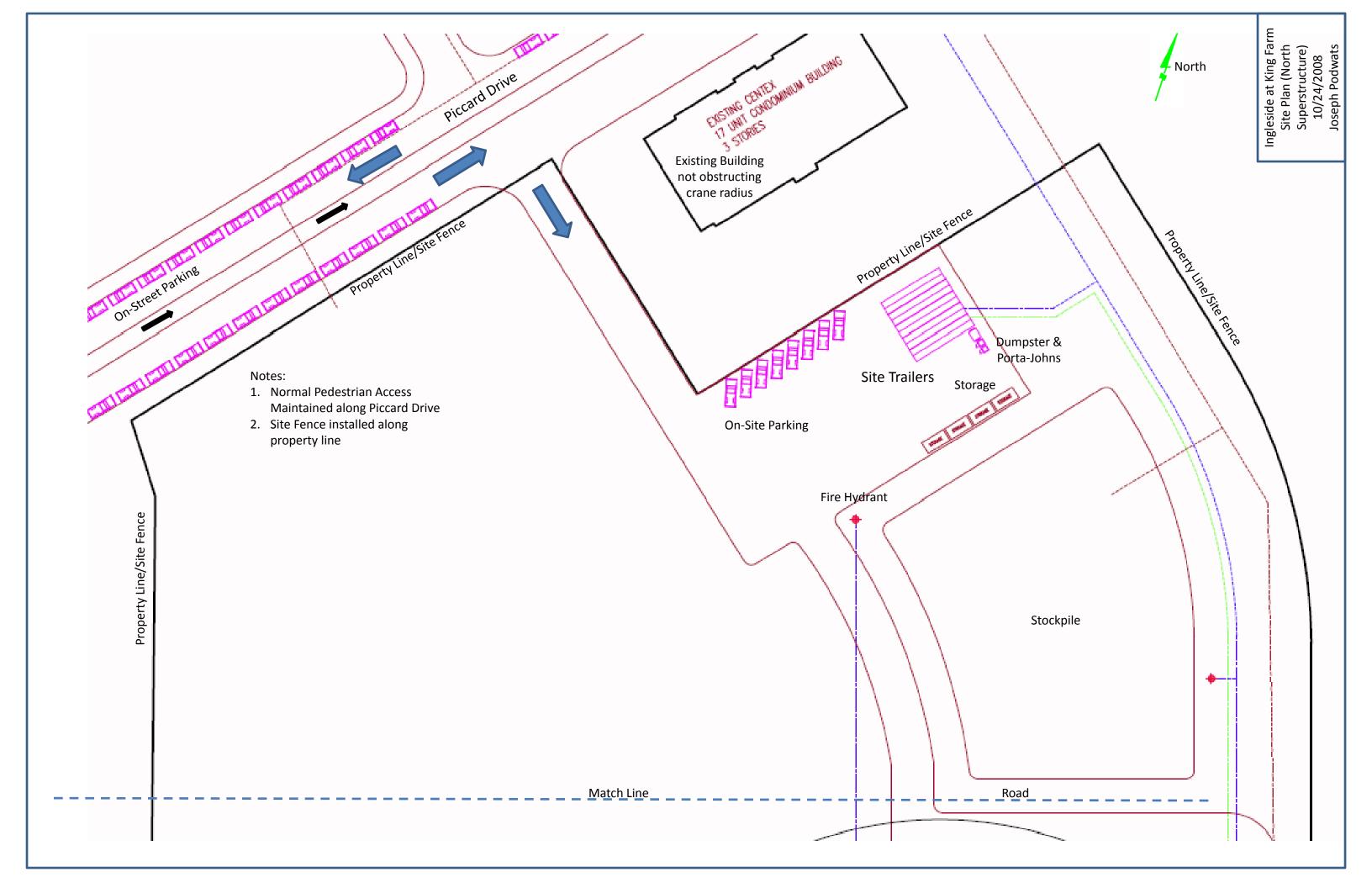
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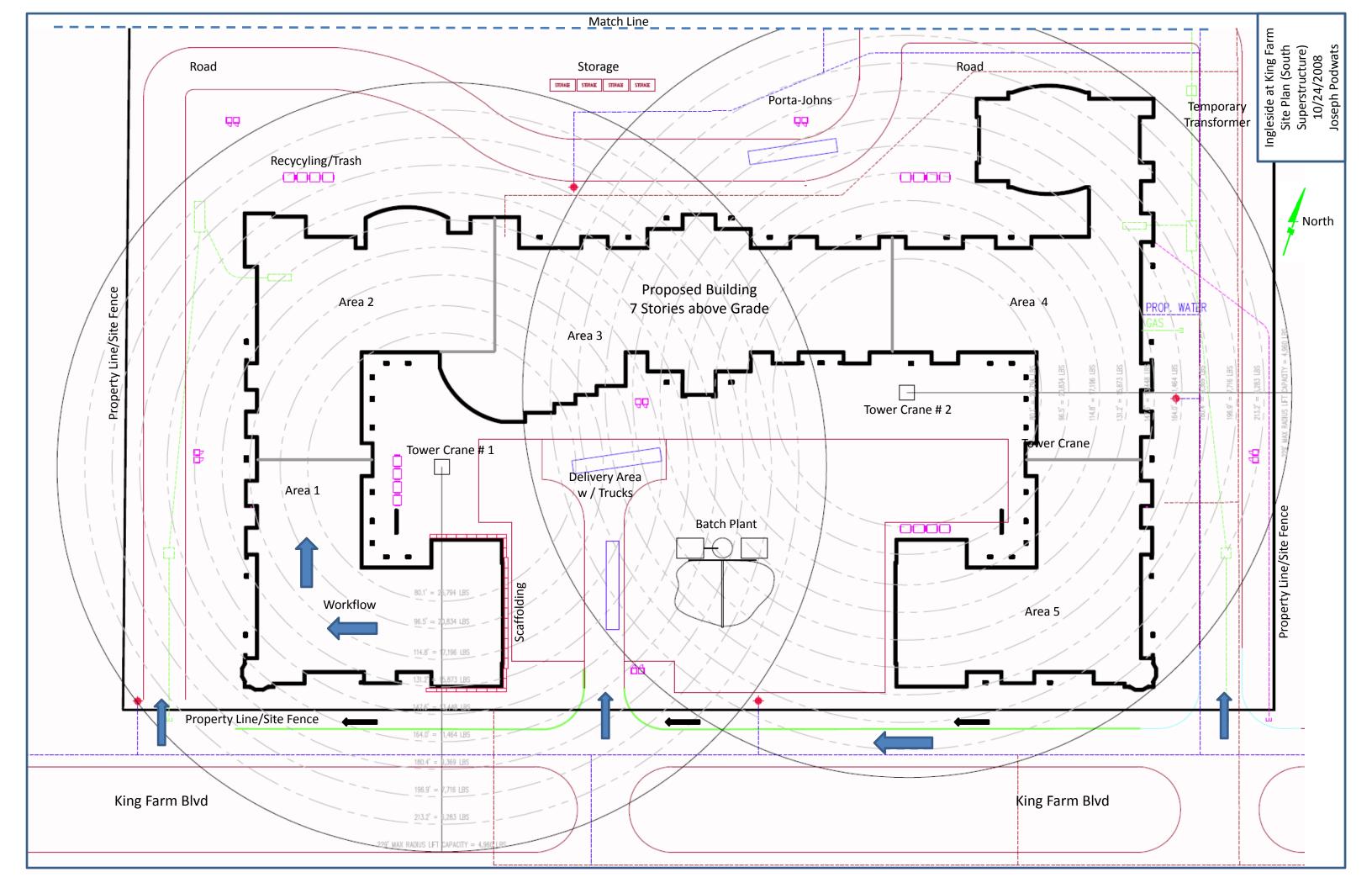
Actual Work Critical Remaining Work V Summary	Joseph Podwats	Ingleside at King Farm - Rockville, MD
Remaining Work Milestone		

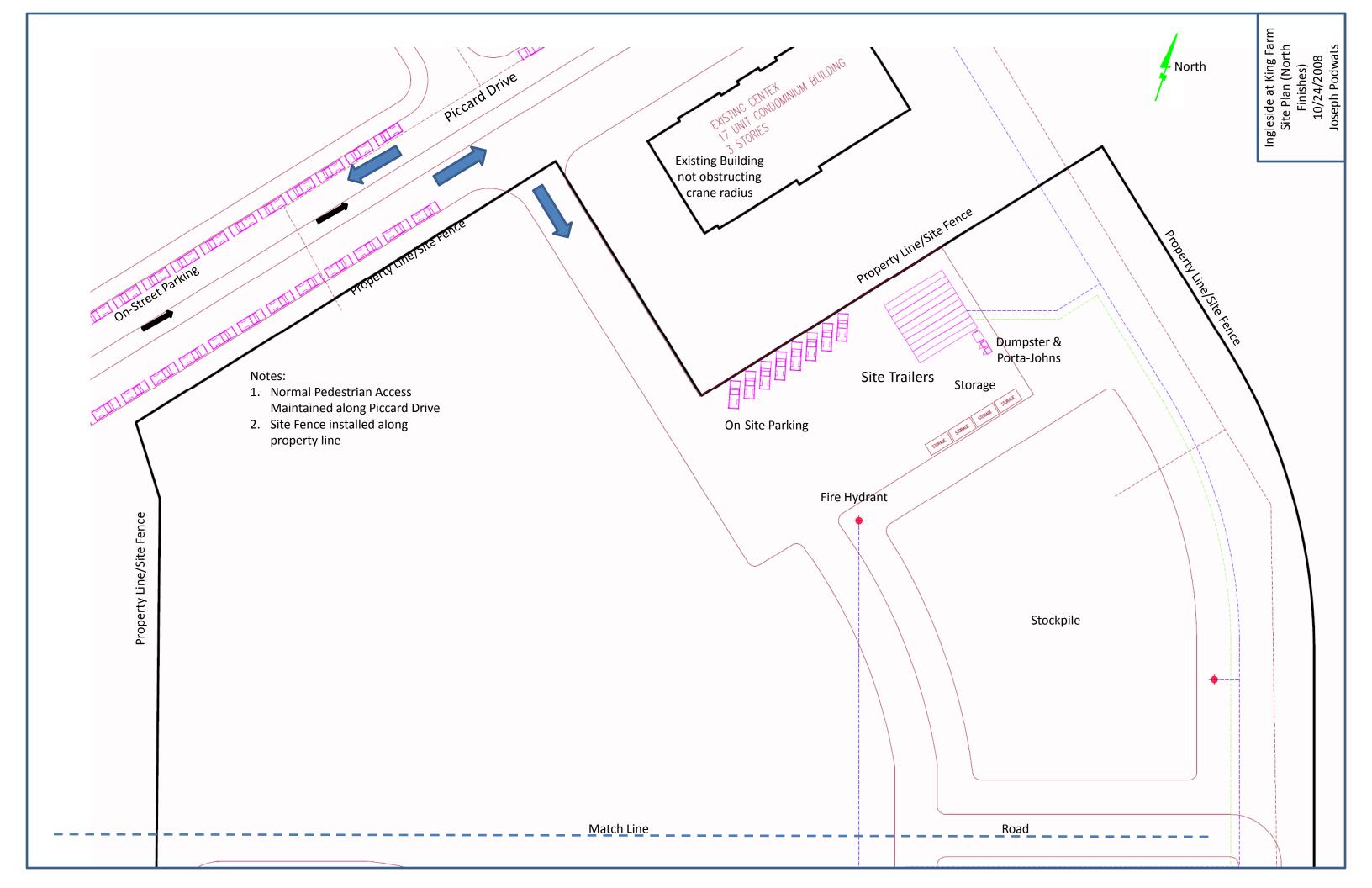
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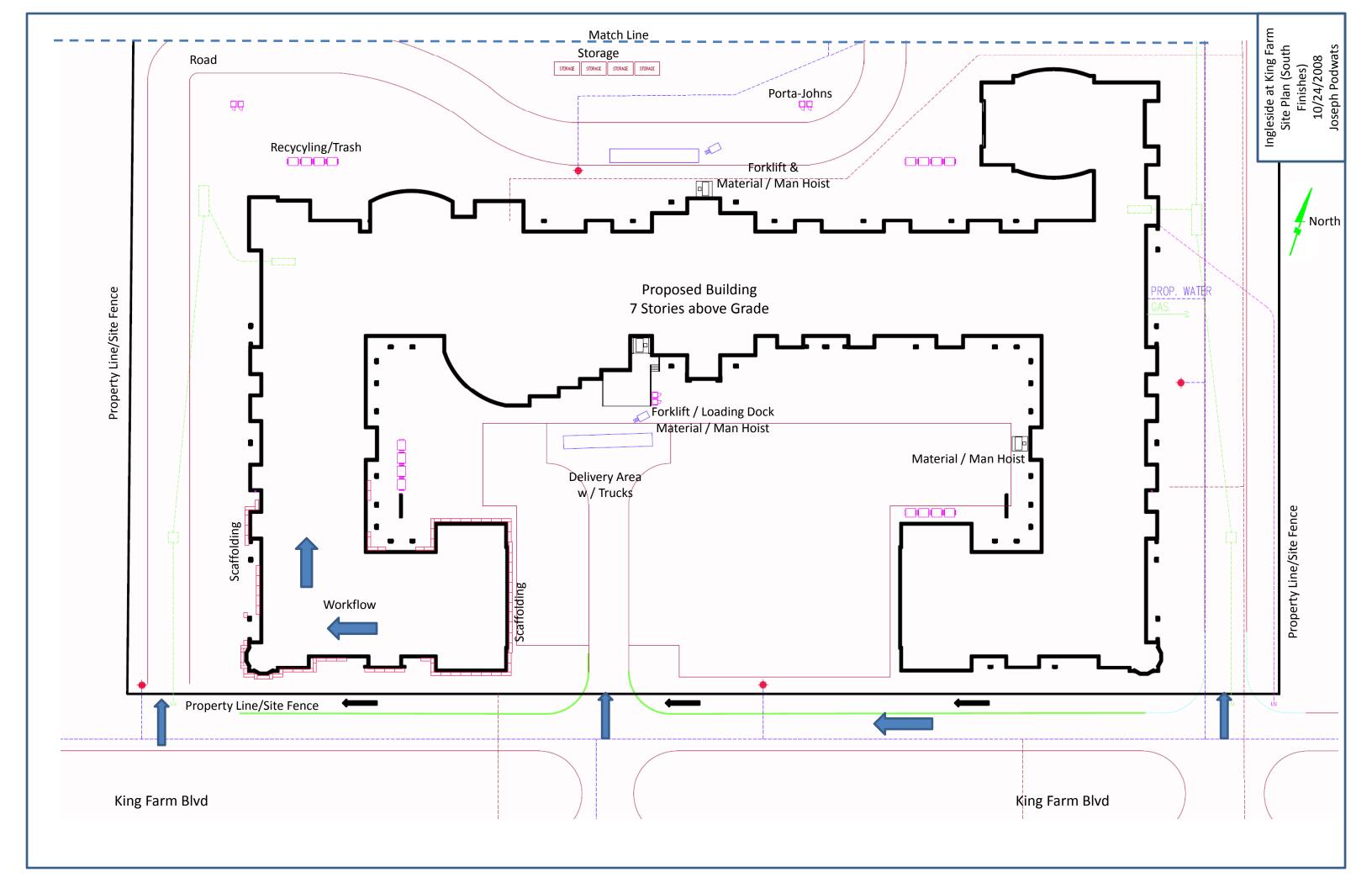












Staff Monitor

Construction Duration565 daysTotal Project Duration601 daysDoesn't include weekends/holidays

	Prec	onstructio	n (Starts N	lovember 1	, 2006											Construct	tion (Starts	March 15, 20	07)									
			1onth Num		,												Month Nu	ımber	- /									
	1 Nov 06	2 Dec 06	3 Jan 07	4 Feb 07	4.5 Mar 07	4.5 Mar 07	5 Apr 07	6 May 07	7 June 07	8 Jul 07	9 Aug 07	10 Sep 07	11 Oct 07	12 Nov 07	13 Dec 07	14 Jan 08	15 Feb 08	16 Mar 08	17 Apr 08	18 May 08	19 June 08	20 Jul 08	21 Aug 08	22 Sep 08	23 Oct 08	24 Nov 08	25 Dec 08	26 Jan 09
Project Executive:	10%	10%	10%	10%	15%	15%	10%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
Project Manager Field:	0%	0%	0%	20%	30%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Project Manager Engineering:	10%	10%	20%	20%	30%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
GC-MEP Peer Review:	0%	0%	20%	20%	10%	5%	0%	0%	0%	0%	5%	10%	10%	2%	2%	2%	2%	2%	2%	2%	2%	2%	0%	0%	0%	0%	0%	0%
GC Accountant:	0%	0%	0%	0%	5%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
GC Estimator:	20%	20%	20%	20%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Lead Superintendent:	0%	0%	0%	0%	5%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Superintendent:	0%	0%	0%	0%	0%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Exteriors Superintendent:	0%	0%	0%	0%	0%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Interiors Superintendent:	0%	0%	0%	0%	0%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
MEP Superintendent:	0%	0%	0%	0%	0%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
MEP Superintendent:	0%	0%	0%	0%	0%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Project Engineer:	0%	0%	5%	5%	20%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
MEP Engineer:	0%	0%	20%	20%	10%	5%	0%	0%	0%	0%	5%	10%	10%	2%	2%	2%	2%	2%	2%	2%	2%	2%	0%	0%	0%	0%	0%	0%
Interiors Engineer:	0%	0%	20%	20%	10%	5%	0%	0%	0%	0%	5%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	5%	5%	5%	5%	5%
Field Engineer:	0%	0%	5%	5%	5%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Field Engineer:	0%	0%	5%	5%	5%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Field Engineer:	0%	0%	5%	5%	5%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Field Engineer:	0%	0%	5%	5%	5%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%