

		Pavilion & Addition urgh, Pa				
Project Overview Architectural Precast Concrete Site Logistics	Structural	Implications I Typical Bay: 28'-0		Material V		
Structural Breadth		3 Equal Spaces of 9'-4"	Material	Density (lb/ft ³)	Thickness (in.)	Weight (lb/ft ²)
+Schedule +Cost		Edge Beams: W24x55	Brick Veneer	130	4	43.33
Matrix Schedule Mobile Information Technology Documents		Cant Beams: W10x22	Precast Concrete	150	6	75
Conclusion Ouestions	E E E E			Panel	Characteristics	
	DOMA DOMA			Density of	Concrete: 150	pcf
	3 EOUNL SPACES = 28 - 0"			Thickness	of Panel: 0.5	5 ft
				Weight	of Panel: 75	psf
and the second sec	W9055 [26]	1		Max. Pan	el Height: 14	1 ft
		<u>+-</u>		Tribu	ary Area: 9.33	3 ft
Jeremy McGrath						

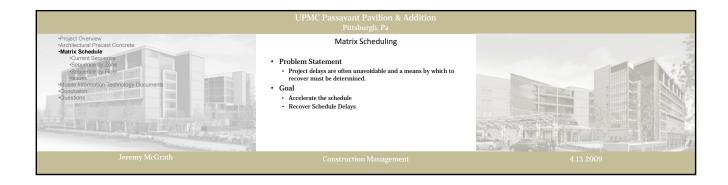
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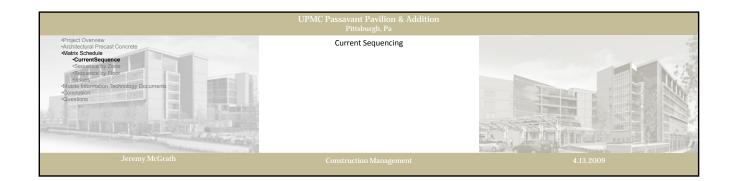
	UPMC Passavant Pavilion & Addition Pittsburgh, Pa	
 Project Overweit Protecture Process Concrete Protecture Protecture Process Concrete Pr	Shear & Moment W10x22: $\phi_{b}M_{\mu x} = 97.5 \text{ ft-k} > 13.72 \text{ ft-k} OK$ $\phi V_{n} = 73.2 \text{ k} > 13.72 \text{ k} OK$ W24x55 $\phi M_{n} = 503 \text{ ft-k} > 323 \text{ ft-k} OK$ $\phi V_{n} = 251 \text{ k} > 34.61 \text{ k} OK$ Deflection $\Delta_{max} = (Pa / 24E1)(3l^{2} - 4a^{2})$ = 1.19 in $\Delta = l/240 = 28 \text{ ft} (12 \text{ in}) / (240) = 1.4 \text{ in} > 1.19 \text{ in } OK$	Column W12x72 φP _n = 761k P _u = 725k <u>OK</u>
Jeremy McGrath		4.13.2009

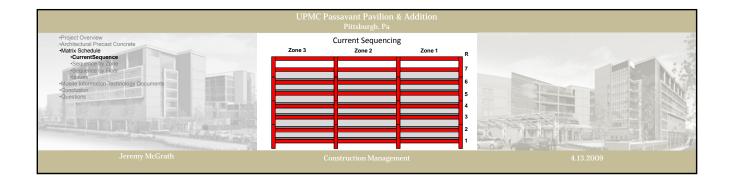
Project Overview Architectural Precast Concrete			Duration									
*Site Logistics *Stretural Breadth		Aver	age Masonry Duration:	Comparison of Critical Path Dates								
Schedule		Aver	age Precast Duration:	2 -3 Day	Start			Completion				
•Cost			Based Upon 15-20	Panels/Day	Activity	Original	Proposed	Original	Propos			
•Matrix Schedule					Masonry Veneer @East Studs/Sheathing	8/4/2008	8/4/2008	8/29/2008	8/5/20			
Mobile Information Technology Documents Conclusion	14		Comparison of Du	irations	Masonry Veneer/Cast Stone Sill @ South	9/1/2008	8/11/2008	9/19/2008	8/12/2			
•Questions	Masonry vs. Precast Masonry & Metal Panel vs. Precast						Masonry Veneer/Cast Stone Bands @ West	9/22/2008	8/13/2008	10/10/2008	8/14/2	
The second	Elevation	Masonry	Precast	Masonry	Mtl. Panel	Precast	Substantial Completion G-3			8/25/2009	7/30/20	
New New York Control of the State of the Sta	South	15 Days	2 Days	15 Days	15 Days	3 Days	Substantial Completion 4-6			9/29/2009	9/3/20	
	East	20 Days	2 Days	20 Days	15 Days	3 Days						
	North 10 Days 2 Days 10 Days 2 Days						Time Savings of Up To 18 Days					
and a second sec	West	15 Days	2 Days	15 Days	15 Days	2 Days						
Jeremy McGrath	Construction Management							4.13.20	09			

*Project Overview		Summary of M						5	ammary of Mate						
Architectural Precast Concrete	Elevation	Item	SF	Cost/SF	Cost	Total/Elevation		Elevation	item	5 0	iost/SF	Cost T	otal/Elevatio		
	South	Precast	2849	\$35.00	\$99,713.78			South	Precast	5933	\$25.00	\$207,661.48			
Site Logistics		Masonry	2802	\$74.00	-\$207,382.41				Masonry	-2802	\$74.00	-5207,382.41			
Structural Breadth		Louver	47	\$480.00	-\$22,560.00				Metal Panel	-3274		-\$175,001.31			
•Schedule						-\$130,228.63			Louver	-47	\$480.00	-\$22,320.00			
								_					\$197,042.24		
·Cost	East	Precast	4907	\$35.00	\$171,750,25			fast	Precast	5284	\$25.00	\$188,433,00			
Matrix Schedule	-	Masonry	1952	\$82.00	-\$160.057.44				Masonry	-1962		-\$160,057.44			
Mobile Information Technology Documents		Masonry	2955	\$17.00	-\$50,238.91				Masonry	-2955		-\$50,238.91			
		,				-\$38,546.10			Metal Panel	-475		-\$25,293.50 -\$22,320.00			
Conclusion								_	Louver	-164	\$480.00	-\$22,320.00	-5116.376.85		
•Questions	North	Precast	2434	\$35.00	\$85,189,86								-parajara an		
A COMPACT DESCRIPTION OF THE OWNER	North	Majonry	2434	\$23.00	\$55,981,91			North	Procest	2643	\$25.00	\$92,504,95			
State and the second state and	and the first state of	Masonry	2434	523.00	222,981.91				Masonry	-2434		-\$55,981.91			
March 19620 (1982) (198						\$29,207.95			Metal Panel	-209	\$53.46	-\$11,173.14			
A REAL PROPERTY OF A REAL PROPER							-\$239,700						\$25,349.81	A 400 475	
	West	Precast	2902	\$35.00	\$101,566.50		-9239,700	Wart	Precast	4742	\$25.00	\$165.984.00		-\$422,175	
		Masonry	3148	\$68.00	-\$214,057.20				Masany	-3148		-\$214,057.20		,	
in the second	1	Curtain wall	103	\$120.00	\$12,360.00				Curtain wall	103	\$120.00	\$12,360.00			
	and the second second					-\$100,136.70			Metal Panel	-1841	\$3.46	-598,293.13			
	Contraction of the local division of the loc											_	-\$13,006.33		
				Proposed	Savings	-\$239,697.48					Proposed S	and our control of the	Samona		
x x x x x x						1		-							
						nagemen						<u> </u>	4.13.20		

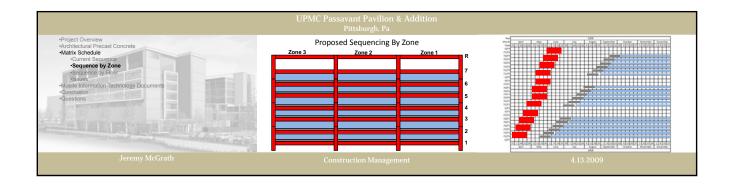


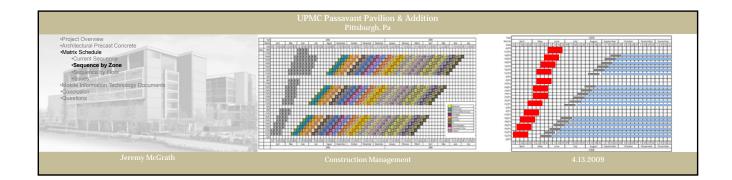


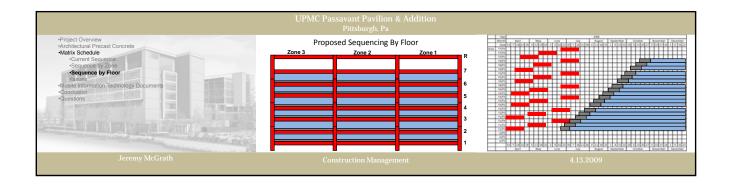


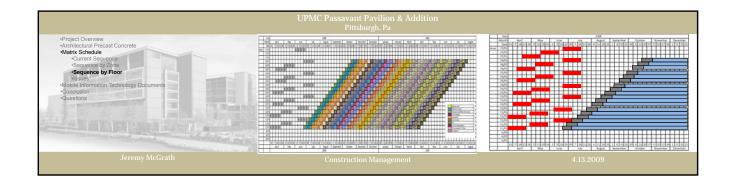


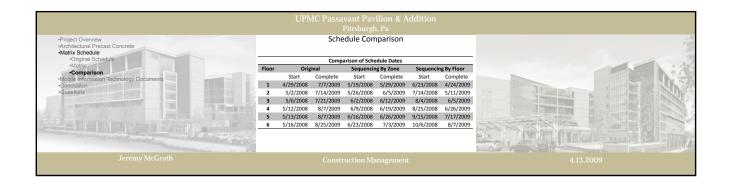


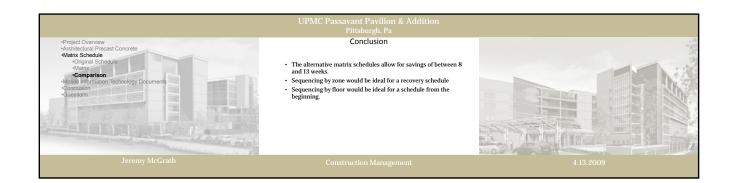




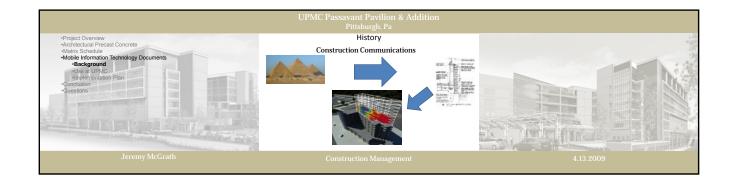


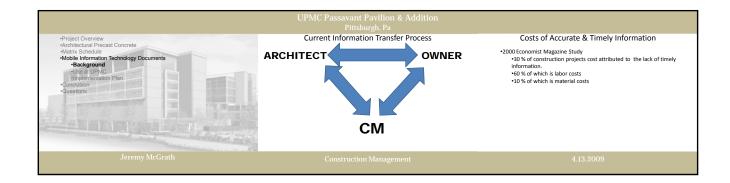


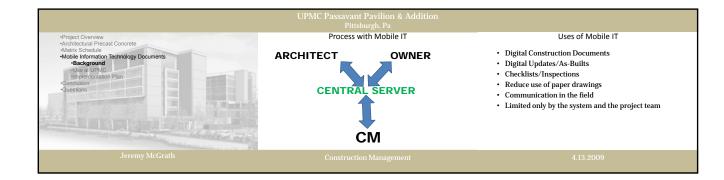












	UPMC Passavant Pavilion & Addition Pittsburgh, Pa	
Project Overview Project Ove	Uses at UPMC Electronic As-Built Drawings Progress/Foremen Meetings	
Jeremy McGrath		

