



Aquarius
Site A
Hershey, PA

CM PROPOSAL
Estimate No. E-
Project No.
6/3/2010

GENERAL REQUIREMENTS DETAIL

Project Schedule		Project Volume
Preconstruction	0 Months	55,000,000
Construction	15 Months	
Close-Out	2 Months	
Total Duration	17 Months	

Code	Cat.	Item	Quantity	Unit	Unit Cost	Estimate	Total	Est Value
TEMPORARY FACILITIES								0
01130	06	Plant Rentals & Equipment					0	
01130	06	Purchase	1	LS	3000.00	3,000		
01130	06	Service & Maintenance	15	Months	100.00	1,500		
01130	06	Transit, Level, Rod, Etc.	1	LS	2500.00	2,500		
01130	06	Service Transit, Etc.	15	Months	100.00	1,500		
01130	06	Miscellaneous Plant	1	LS	2500.00	2,500		
01130	06						0	
01130	06	Total: Plant Rentals & Equipment					11,000	
01132	06	Vehicles/Parking					0	
01132	06	Project Vehicle	1	LS	20000.00	20,000		
01132	06						0	
01132	06	Total: Vehicles/Parking					20,000	
01140	06	Temporary Buildings					0	
01140	06	Temporary Structures	1	LS	15000.00	15,000		Deck @ Trailers
01140	06	Loading Docks - Platform	300	SF	25.00	7,500		
01140	06	Loading Docks - Temp Doors	1560	SF	15.00	23,400		
01140	06	Loading Platforms	1	LS		0		Not Req'd
01140	06	Loading Platforms at Roof	1	LS		0		Not Req'd
01140	06	Toilet Enclosures	1	LS	3000.00	3,000		
01140	06	Material Cages	1	LS		0		By Sub
01140	06	Prefabricated Changing Facilities	1	LS		0		By Sub
01140	06	Tool Sheds	1	LS		0		By Sub
01140	06	Guard Stations	1	LS		0		Not Req'd
01140	06	Storage Shanties	1	LS		0		By Sub
01140	06	Rental of Other than Office Space	15	Months	150.00	2,250		
01140	06						0	
01140	06	Total: Temporary Buildings					51,150	
01150	06	Temporary Roads					0	
01150	06	Temporary Entrances-to Bldg. (stone)	5	Ea.	0.00	0		w/ Sitework 53,000
01150	06	Construction Roads	1056	CY	0.00	0		w/ Sitework Included
01150	06	Construction Entrances				0		
01150	06	Stone Entrance (1 x 30 x 50 x 2' deep)	111	CY	0.00	0		w/ Sitework Included
01150	06	Wheel Wash Station	1	Ea.	1500.00	1,500		
01150	06	Power Washers	1	Ea.	350.00	350		
01150	06	Heat Tracing	1	LS		0		
01150	06	Water Supply	1	LS	1000.00	1,000		w/ Sitework
01150	06	Power Supply	1	LS	1000.00	1,000		
01150	06	Parking Areas	972	CY	30.00	29,170		Rework New Parking Lots w/ Sitework
01150	06	Dust Control/Street Cleaning	15	Months		0		By Sub
01150	06	Temporary Site Drainage	1	LS		0		By Sub
01150	06	Temporary Erosion Control	1	LS		0		By Sub
01150	06	Remove & restore temporary Roads	1	LS	0.00	0		w/ Sitework Included
01150	06						0	
01150	06	Total: Temporary Roads					33,020	
01151	06	Construction/Maintenance					0	
01151	06	Construction Rd/Parking Maintenance	15	Months	0.00	0		Included with Parking



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01151	06					0		
01151	06					0		
01151	06	Total: Construction/Maintenance					0	
01160	06	Winter Weather/Enclose Buildings/Maintenance				0	Required for SOG	
01160	06	Perimeter Enclosure		SF		0		
01160	06	Window Openings	1	LS	1000.00	1,000		
01160	06	Doors	22	Ea.	300.00	6,600		
01160	06	Heaters	8	Ea.	2000.00	16,000		
01160	06	Utilities - Electric				0	w/ 01300	
01160	06	Fuel - Propane				0	w/ 01300	
01160	06	Standby Personnel	4	Months	4000.00	16,000	Maintenance	
01160	06	Winter weather/enclosure maintenance	6	Months	1000.00	6,000		
01160	06					0		
01160	06	Total: Winter Weather/Enclose Buildings/Maintenance					45,600	
01163	06	Snow Removal/Rainwater Control				0		
01163	06	Snow Removal	4	Months	0.00	0	w/ Sitework	9,800
01163	06					0		
01163	06					0		
01163	06	Total: Snow Removal/Rainwater Control						0
01170	06	Special Scaffold & Shoring				0		
01170	06	Scaffolding System				0	By Sub	
01170	06	Shoring System				0	By Sub	
01170	06	Tunnels				0	By Sub	
01170	06	Ground Floor Reinforcement				0	By Sub	
01170	06	Shoring for Traffic				0	By Sub	
01170	06	Material Storage				0	Not Req'd	
01170	06					0		
01170	06	Total: Special Scaffold & Shoring						0
01180	06	Temporary Stairs/Ladders				0		
01180	06	Gang Ladders	1	LS	0.00	0	w/ Structural Steel	4,000
01180	06	Ramps	1	LS	0.00	0	Not Req'd	
01180	06					0		
01180	06					0		
01180	06	Total: Temporary Stairs/Ladders						0
01195	06	Temporary Facilities - Expansion #1				0		
01195	06					0		
01195	06					0		
01195	06	Total: Temporary Facilities - Expansion #1						0
01197	06	Temporary Facilities - Expansion #2				0		
01197	06					0		
01197	06					0		
01197	06	Total: Temporary Facilities - Expansion #2						0
Total: TEMPORARY FACILITIES							160,770	

HOIST FACILITIES

01200	06	Material/Personnel Hoist(s) Rental/Maintenance				0		
01200	06	Material Hoist				0		
01200	06	Erect / Dismantle	0	LS	20000.00	0		
01200	06	Monthly Rental	17	Months		0		
01200	06	Landings		SF		0		



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Code	Cat.	Item	Quantity	Unit	Unit Cost	Estimate	Total	Est Value
01200	06	Gates		Ea.		0		
01200	06	Hoist Machine		Ea.		0		
01200	06	Operator Enclosures	1	LS		0		
01200	06	Electric Service Hook-Up	1	LS		0		
01200	06	Signal System	1	LS		0		
01200	06	Concrete	1	LS		0		
01200	06	Maintenance	17	Months		0		
01200	06					0		
01200	06	Personnel Hoist				0		
01200	06	Erect / Dismantle	0	LS	20000.00	0		
01200	06	Monthly Rental	17	Months		0		
01200	06	Landings		SF		0		
01200	06	Gates	1	LS		0		
01200	06	Hoist Machine	1	LS		0		
01200	06	Pad	1	LS		0		
01200	06	Enclosure of Cab	1	LS		0		
01200	06	Electric Service Hook-Up	1	LS		0		
01200	06	Testing	1	LS		0		
01200	06	Maintenance	17	Months		0		
01200	06					0		
01200	06	Total: Material/Personnel Hoist(s) Rental/Maintenance					0	
01210	37	Hoist Operation				0		
01210	37	Material Hoist Operator	0	Months	12975.00	0 See Calc>>>		75
01210	37	Personnel Hoist Operator	0	Months	12975.00	0 See Calc>>>		75
01210	37					0		
01210	37	Total: Hoist Operation					0	
01240	06	Temporary Elevators/Install/Maintenance/Operation				0		
01240	06	Erect / Dismantle	0	LS	20000.00	0		
01240	06	Temporary Cab		Ea.	6000.00	0		
01240	06	Doors	0	LS	3000.00	0		
01240	06	Shaft Enclosure	1	LS		0		
01240	06	Wire Mesh for Dividing Screen	1	LS		0		
01240	06	Expediting Costs	1	LS		0		
01240	06	Reroping	1	LS		0		
01240	06	Temporary Elevator Machines	1	LS		0		
01240	06	Electric Service Hook-Up	1	LS		0		
01240	06	Testing	0	LS	4500.00	0		
01240	06	Maintenance	0	Months	3000.00	0		
01240	37	Operator	0	Months	12975.00	0 See Calc>>>		75
01240	06					0		
01240	06	Total: Temporary Elevators/Install/Maintenance/Operation					0	
01260	06	Crane Rental/Maintenance/Operation				0		
01260	06	Rental	17	Months		0		
01260	06	Testing	1	LS		0		
01260	06	Maintenance	17	Months		0		
01260	37	Operator	0	Months	12975.00	0 See Calc>>>		75
01260	06					0		
01260	06	Total: Crane Rental/Maintenance/Operation					0	
01261	06	Crane Erect/Dismantle/Associate Set-Ups/Jumps				0		
01261	06	Erect / Dismantle	0	LS	20000.00	0		
01261	06	Concrete Pads / Foundations	1	LS		0		
01261	06	Electric Service Hook-Up	1	LS		0		



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Code	Cat.	Item	Quantity	Unit	Unit Cost	Estimate	Total	Est Value
01261	06					0		
01261	06	Total: Crane Erect/Dismantle/Associate Set-Ups/Jumps						0
01295	06	Hoist Facilities - Expansion #1				0		
01295	06					0		
01295	06					0		
01295	06	Total: Hoist Facilities - Expansion #1						0
01297	06	Hoist Facilities - Expansion #2				0		
01297	06					0		
01297	06					0		
01297	06	Total: Hoist Facilities - Expansion #2						0
Total: HOIST FACILITIES								0
TEMPORARY UTILITIES						0		
01300	06	Temporary Heat/Install/Remove/Maintenance/Usage				0		
01300	06	Installation	1	LS	3000.00	3,000		
01300	06	Removal	1	LS	2400.00	2,400		
01300	06	Fuel Costs	4	Months	0.00	0		
01300	06	Standby Personnel	17	Months		0	Not Req'd	
01300	06					0		
01300	06	Total: Temporary Heat/Install/Remove/Maintenance/Usage						5,400
01310	06	Temporary Light & Power/Install/Remove/Maintenance/Usage				0		
01310	06	Installation	1	LS		0	w/Electric	
01310	06	Removal	1	LS		0	w/Electric	
01310	06	Maintenance / Modifications	8	Months	0.00	0	w/Electric	171,000
01310	06	Electrical Service Charges	17	Months		0	By Owner	
01310	06	Standby Personnel	17	Months		0	Not Req'd	
01310	06					0		
01310	06	Total: Temporary Light & Power/Install/Remove/Maintenance/Usage						0
01320	06	Temporary Plumbing & Toilets/Install/Remove/Maintenance/Usage				0		
01320	06	<u>Temporary Plumbing</u>				0		
01320	06	Installation	1	LS	1900.00	1,900		
01320	06	Maintenance	10	Months	200.00	2,000		
01320	06	Removal	1	LS	500.00	500		
01320	06	Temporary Standpipes		Ea.	10000.00	0	Not Req'd	
01320	06	Fire Hoses	1	LS		0	Not Req'd	
01320	06	Water Chargers	1	LS		0	Not Req'd	
01320	06	Temporary Wells	1	LS		0	Not Req'd	
01320	06	Standby Personnel	17	Months		0	Not Req'd	
01320	06					0		
01320	06	<u>Temporary Toilets</u>				0		
01320	06	Rental Toilets (1/10 Men)	585	Units	65.00	38,030	See Calc>>> in schedule	
01320	06	Maintenance	17	Months		0	Included	
01320	06					0		
01320	06	Fixtures				0		
01320	06	Water Closets				0		
01320	06	Urinals				0		
01320	06	Lavs				0		
01320	06	Miscellaneous Specialties				0		
01320	06	Protect Toilet Rooms		Ea.		0		
01320	06	Maintain Temporary Toilet Rooms		Months		0		
01320	06	Clean Temp Toilet Rooms		Hr.		0		



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Code	Cat.	Item	Quantity	Unit	Unit Cost	Estimate	Total	Est Value
01320	06					0		
01320	06	Total: Temporary Plumbing & Toilets/Install/Remove/Maintenance/Usage					42,430	
01340	06	Temporary Water/Install/Remove/Maintenance/Usage				0		
01340	06	Domestic water consumption charges				0	By Owner	
01340	06					0		
01340	06	Total: Temporary Water/Install/Remove/Maintenance/Usage					0	
01395	06	Temporary Utilities - Standpipe (Bldgs over 250')				0		
01395	06	Temporary Standpipes		LF		0	Not Req'd	
01395	06	Maintenance		Months		0	Not Req'd	
01395	06	Standby Personnel		Months		0	Not Req'd	
01395	06					0		
01395	06	Total: Temporary Utilities - Standpipe (Bldgs over 250')					0	
01397	06	Temporary Utilities - Expansion #1				0		
01397	06	Temporary Site Fire Loop		LF		0	Not Req'd	
01397	06	Temporary Site Fire Hydrants		Ea.		0		
01397	06	Total: Temporary Utilities - Expansion #1					0	
Total: TEMPORARY UTILITIES							47,830	
CLEANING							0	
01400	06	General Building/Glass Cleaning				0		
01400	00	Labor	6401	MH	45.00	0	w/ Drywall	300,000
01400	06	Foundations		Months	0.00	0	See Calculation >>>	
01400	06					0		
01400	06	Supplies				0		
01400	06	Buggies	27	Ea.	1485.00	40,100		
01400	06	Brooms / Shovels	35	Ea.	250.00	8,750		lr
01400	06					0		
01400	06	Glass Cleaning		SF	0.20	0	Enter Wall Area	
01400	06					0		
01400	06					0		
01400	06	Total: General Building/Glass Cleaning					48,850	
01410	06	Dirt Chutes/Rubbish Removal/Recycling				0		
01410	06	Dirt Chutes				0		
01410	06	Rental	17	Months		0		
01410	06	Installation	1	LS		0		
01410	06	Maintenance	17	Months		0		
01410	06	Dismantle				0		
01410	06	Dirt Chutes	1	LS		0		
01410	06	Hoppers	1	LS		0		
01410	06					0		
01410	06	Rubbish Removal				0		
01410	06	Dumpsters	80	Picks	550.00	44,000	See Calculation >>>	
01410	06					0		lr
01410	06	Recycling set-up charges	1	LS	0.00	0	Not Req'd	
01410	06					0		
01410	06					0		
01410	06	Total: Dirt Chutes/Rubbish Removal/Recycling					44,000	
01430	06	Site & Street Cleaning - Labor				0		
01430	06	Labor	17	Months		0	By Site Sub	
01430	06	Equipment	17	Months		0	By Site Sub	
01430	06					0		



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Code	Cat.	Item	Quantity	Unit	Unit Cost	Estimate	Total	Est Value
01430	06	Total: Site & Street Cleaning - Labor					0	
01490	06	Final Cleaning - Labor				0		
01490	06	Final Cleaning	300000	SF	0.35	0 w/ Drywall		100,000
01490	06					0		
01490	06	Total: Final Cleaning - Labor					0	
01495	06	Cleaning - Expansion #1				0		
01495	06					0		
01495	06					0		
01495	06	Total: Cleaning - Expansion #1					0	
01497	06	Cleaning - Expansion #2				0		
01497	06					0		
01497	06					0		
01497	06	Total: Cleaning - Expansion #2					0	
Total: CLEANING							92,850	
PROTECTION AND SAFETY							0	
01500	06	General Protection & Safety				0		
01500	06	Labor				0		
01500	06	Personnel	1	LS	2500.00	2,500		
01500	06	Property	1	LS	2500.00	2,500		
01500	06	Public	1	LS	2500.00	2,500		
01500	06	Protection Maintenance	15	Months	2000.00	30,000		
01500	06	Material	1	LS	15000.00	15,000		
01500	06	Shaft Planking		SF		0		
01500	06					0		
01500	06	Total: General Protection & Safety					52,500	
01501	06	Barricades/Railings/Perimeter Cable/Toe Boards				0		
01501	06	Barricades	60	LF	25.00	1,500		
01501	06	Railings	400	LF	8.00	3,200		
01501	06	Stair Railings	300	LF	8.00	2,400		
01501	06	Perimeter Cables / Protection		LF		0 By Subs		
01501	06	Interior Cables / Protection		LF		0 By Subs		
01501	06	Toe Boards		LF		0 By Subs		
01501	06	Temporary Stair Treads	70	Ea.	25.00	1,750		
01501	06	Temporary Stair Treads Infill				0 By Subs		
01501	06					0		
01501	06	Total: Barricades/Railings/Perimeter Cable/Toe Boards					8,850	
01505	06	Safety Program/Watchman/Traffic Control/Drug Testing				0		
01505	06	Substance Abuse Program		x	0.12%	0 Not Incl		
01505	06	Watchman/Security Service	17	Months		0 Not Incl		
01505	06	Traffic Control		MH		0 By Subs		
01505	06					0		
01505	06	Total: Safety Program/Watchman/Traffic Control/Drug Testing					0	
01510	06	Protect Finished Work In Place				0		
01510	06	Protect Completed Work-In-Place	1	LS	10000.00	10,000		
01510	06	Sill Covers		LF		0 Not Reqd		
01510	06	Corner Guards	125	Ea.	50.00	6,250		
01510	06	Glass Ribbons		LF		0 Not Reqd		
01510	06	Temporary Roofing		SF		0 Not Reqd		
01510	06	Protection Maintenance	15	Months	300.00	4,500		



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01510	06					0		
01510	06	Total: Protect Finished Work In Place					20,750	
01520	06	Sidewalk Bridges/Fences				0		
01520	06	Sidewalk Bridges				0		
01520	06	Rental	17	Months		0 Not Reqd		
01520	06	Installation	1	LS		0 Not Reqd		
01520	06	Maintenance	17	Months		0 Not Reqd		
01520	06	Dismantling	1	LS		0 Not Reqd		
01520	06	Temporary Lighting				0		
01520	06					0		
01520	06	Fences				0		
01520	06	Temporary Fence		LF		0 By Sub		
01520	06	Man Gates		Ea.		0 By Sub		
01520	06	Truck Gates		Ea.		0 By Sub		
01520	06	Maintenance	17	Months		0 By Sub		
01520	06	Dismantling	1	LS		0 By Sub		
01520	06					0		
01520	06	Total: Sidewalk Bridges/Fences					0	
01550	06	Fire Watch/Rodent Controls/Extinguishers				0		
01550	06	Fire Watch	17	Months		0 w/ Trades		
01550	06	Rodent Control	8	Months	750.00	6,000		
01550	06	Fire Extinguishers	50	Ea.	175.00	8,750		
01550	06					0		
01550	06	Total: Fire Watch/Rodent Controls/Extinguishers					14,750	
01570	06	Protection of Public Utilities				0		
01570	06					0		
01570	06					0		
01570	06	Total: Protection of Public Utilities					0	
01590	06	First Aid Facilities				0		
01590	06	Trailer Rental	0	Months	1000.00	0		
01590	06	Trailer Utilities	17	Months		0 w/ Rental		
01590	06	Trailer Supplies	17	Months		0 w/ Rental		
01590	06	FF & E	1	LS	5000.00	5,000		
01590	06	First Aid Supplies	18	Months	150.00	2,700		
01590	06					0		
01590	06	Total: First Aid Facilities					7,700	
01595	06	First Aid Facilities - Personnel				0		
01595	06	First Aid Facilities - EMT	0	Months	8000.00	0		
01595	06					0		
01595	06					0		
01595	06	Total: First Aid Facilities - Personnel					0	
01597	06	Protection & Safety - Expansion #2				0		
01597	06					0		
01597	06					0		
01597	06	Total: Protection & Safety - Expansion #2					0	
Total: PROTECTION AND SAFETY							104,550	

TOTAL:	406,000
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638,100