



APPENDIX A

Medlar Field at Lubrano Park Detailed Project Schedule

Act ID	Description	Orig Dur	Rem Dur	2005												2006											
				ET	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
CONSTRUCTION																											
PERMITS																											
1020320	10 Day D.E.P. Review Period	10	0																								
1020310	Submit for Demolition & Sitework Permits	0	0																								
1020350	Obtain Demo & Site Permit	1	0																								
NEW BUILDING CONSTRUCTION																											
SITE & SUBSURFACE																											
SITE																											
1020085	Start of On Site Construction	0	0																								
1020080	Erosion & Sediment Control Procedures	10	0																								
1020090	Relocate Effluent, Water, & Gas Line	40	0																								
1020285	Storm & Bioretention Facilities	5	0																								
1020120	Excavation & Grading - N Parking Lot	30	0																								
1020170	Mass Excavation & Grading	30	0																								
1020180	Bldg Pad Ready	0	0																								
1020220	Excavation & Grading - S Parking Lot	5	0																								
1020190	Water and Fire Main Service	10	0																								
1020155	Asphalt Paving (Base Only) - N Parking Lot	7	0																								
1020255	Asphalt Paving (Base Only) - S Parking Lot	5	0																								
1020340	BP 1 Substantial Completion	0	0																								
FOUNDATIONS, UNDER SLAB WORK																											
AREA A																											
3030515	FRP Foundations/Column Footings Area A	7	0																								
3020565	UG Plumbing & Electric Area A	3	0																								
3030175	UG PL & EL Beneath Seating Bowl Area A	4	0																								
3030165	Prep & Pour Slab on Grade Area A	10	4																								
AREA B																											
3030510	FRP Foundations/Column Footings Area B	16	0																								
3030140	FRP Dugout Area B	20	2																								
3030170	UG Plumbing Beneath Seating Bowl Area B & D	24	7																								
3020560	UG Utilities Beneath Main Concs Slab Area B	15	12																								
AREA C																											
3030180	UG Plumbing Beneath Seating Bowl Area C	24	7																								

Run date	27OCT05
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Act ID	Description	Orig Dur	Rem Dur	2005												2006												
				SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC									
1096120	Resilient Flooring/Carpet Serv Lvl Area D	10	10																									
1060210	Millwork/Casework Serv Lvl Area D	20	20																									
1040130	Ext Masonry Serv>Suite Lev Piers/Walls Area D	20	20																									
1095120	Ceiling Tile Serv Lvl Area D	10	10																									
1150285	Insulate PL/HVAC Piping & Duct. Serv Lvl Area D	7	7																									
1100210	Toilet Partitions/Accessories Serv Lvl Area D	5	5																									
AREA E																												
1040080	Masonry Walls Service Level Area E	6	1																									
1160080	OH EL/FP Rough In Service Lev Area E	15	15																									
1050100	Steel Joists & Metal Deck Service Level Area E	11	11																									
1099230	Finish Paint Serv Lvl Area E	15	15																									
MAIN CONCOURSE LEVEL																												
AREA A																												
3099115	Painting - Main Concs Level A	5	5																									
3150185	OH PL/EL/FP Rough-In Main Concs Lev Area A	5	5																									
3095125	Ceiling Grid Main Concs Lev Area A	2	2																									
3040075	Exterior Masonry Main Concs Level Area A	6	6																									
3150175	In-Wall PL/EL Rough-In Main Concs Lev Area A	6	6																									
3160075	Finish Electrical Main Concs Lev Area A	3	3																									
3097135	Finish Flooring Main Concs Lev Area A	5	5																									
3114050	Area A Ready for Concessions Fit-out	0	0																									
4051035	Str Steel/Deck/Detail Main Concs Area A	3	3																									
5074015	Roofing - Main Concs Lvl Area A	4	4																									
AREA B																												
3150170	In-Wall Plumbing Rough In Main Concs Lev Area B	6	0																									
3040070	Exterior Masonry Main Concs Level Area B	30	24																									
3092130	Hang, Tape & Finish Drywall Main Concs Level B	20	20																									
3030010	Prep & Pour Main Concourse Slab Area B	3	3																									
3040050	Masonry Chase Walls Main Concs Lev Area B	6	6																									
3040010	Interior Masonry Main Concs Level Area B	11	11																									
3099110	Painting - Main Concs Level B	15	15																									
3150310	MEP Finishes Main Concs Lvl B	20	20																									
4051030	Str Steel/Deck/Detail Main Concs Area B	17	17																									
3080120	Doors & Hardware Main Concs Lvl Area B	4	4																									

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				SE	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
3150620	Plumbing Fixtures Main Concs Lvl B	20	20																								
3101110	Toilet Partitions/Accessories Main Concs Lvl B	15	15																								
3092110	Metal Stud Framing Main Concs Level B	15	15																								
3150120	Metal Stud Elect Rough In Main Conc Area B	15	15																								
3150050	OH Plumbing Rough In Main Concs Lev Area B	8	8																								
3150090	OH Duct Rough In Main Concs Lev Area B	5	5																								
3150130	OH FP Rough In Main Concs Lev Area B	5	5																								
3160050	OH Elec Rough In Main Concs Lev Area B	15	15																								
AREA C																											
3092230	Hang, Tape & Finish Drywall Main Concs Level C	20	20																								
3030020	Prep & Pour Main Concourse Slab Area C	4	4																								
3040120	Exterior Masonry Main Concs Level Area C	23	23																								
3040020	Interior Masonry Main Concs Level Area C	25	25																								
3099210	Painting - Main Concs Level C	15	15																								
3151410	MEP Finishes Main Concs Lvl C	20	20																								
3150180	In-Wall Plumbing Rough In Main Concs Lev Area C	25	25																								
3101210	Toilet Partitions/Accessories Main Concs Lvl C	15	15																								
3150720	Plumbing Fixtures Main Concs Lvl C	20	20																								
3080130	Doors & Hardware Main Concs Lvl Area C	4	4																								
4051040	Str Steel/Deck/Detail Main Concs Area C	17	17																								
3040060	Masonry Chase Walls Main Concs Lev Area C	5	5																								
3150060	OH Plumbing Rough In Main Concs Lev Area C	7	7																								
3028120	Metal Stud Elec Rough In Main Conc Area C	15	15																								
3092210	Metal Stud Framing Main Concs Level C	15	15																								
3150100	OH Duct Rough In Main Concs Lev Area C	5	5																								
3150140	OH FP Rough In Main Concs Lev Area C	5	5																								
3160060	OH Elec Rough In Main Concs Lev Area C	15	15																								
AREA D																											
3092330	Hang, Tape & Finish Drywall Main Concs Level D	20	20																								
3099310	Painting - Main Concs Level D	15	15																								
3150820	Plumbing Fixtures Main Concs Lvl D	20	20																								
3101310	Toilet Partitions/Accessories Main Concs Lvl D	15	15																								
3080140	Doors & Hardware Main Concs Lvl Area D	4	4																								
4051010	Str Steel/Deck/Detail Main Concs Area D	15	15																								

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				ET	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
3030030	Prep & Pour Main Concourse Slab Area D	4	4																								
3151510	MEP Finishes Main Concs Lvl D	20	20																								
3040030	Interior Masonry Main Concs Level Area D	20	20																								
3092340	CMU Elec Rough In Main Concs D	20	20																								
3150190	In-Wall Plumbing Rough In Main Concs Lev Area D	25	25																								
3040080	Metal Stud Elec Rough In Main Concs D	15	15																								
3092310	Metal Stud Framing Main Concs Level D	15	15																								
3160070	OH Elec Rough In Main Concs Lev Area D	15	15																								
3150070	OH Plumbing Rough In Main Concs Lev Area D	8	8																								
3150210	MEP Finishes Stadium - Main Concs Lev	25	25																								
3150110	OH Duct Rough In Main Concs Lev Area D	5	5																								
3150150	OH FP Rough In Main Concs Lev Area D	5	5																								
AREA E																											
1150050	Structural Steel/Metal Deck Main Concs Area E	10	10																								
3030040	Prep & Pour Main Concourse Slab Area E	5	5																								
3040040	Masonry Main Concs Level Area E	5	5																								
SUITE LEVEL																											
AREA B																											
4092130	Hang, Tape & Finish Drywall Suite Level Area B	20	20																								
4088020	Suitfront Glazing Area B	7	7																								
4150010	Underslab PL/EL Suite Lev Area B	7	7																								
4030010	Prep & Pour Suite Level Slab & Seating Area B	6	6																								
4150090	OH Duct/Plumbing Rough In Suite Level Area B	6	6																								
4040040	Metal Stud Elec Rough In Suite Level B	23	23																								
4150130	OH FP Rough In Suite Level Area B	5	5																								
4150170	In-Wall Plumbing Rough In Suite Level Area B	7	7																								
4160050	OH/In-Wall Elec Rough In Suite Level Area B	15	15																								
4040010	Exterior Masonry/EIFS Suite Level Area B	15	15																								
4150120	CMU Elect Rough In Suite Level B	15	15																								
4099110	Painting - Interiors - Suite Level Area B	15	15																								
4095110	Ceilings Suite Level Area B	10	10																								
4062310	Casework Suite Level Area B	20	20																								
4150310	MEP Finishes Suite Level Area B	20	20																								
4150620	Plumbing Fixtures Suite Level Area B	20	20																								

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4080150	Doors & Hardware Suite Lvl B	4	4																								
4101110	Toilet Partitions/Accessories Suite Lvl Area B	15	15																								
AREA C																											
4092030	Hang, Tape & Finish Drywall Suite Level Area C	20	20																								
4088010	Suitefront/Press Box Glazing Area C	10	10																								
4051020	Str Steel/Deck/Detail Suite/Roof Lvl Area C	25	25																								
4030020	Prep & Pour Suite Level Slab & Seating Area C	4	4																								
4150100	OH Duct Rough In Suite Level Area C	5	5																								
4084010	Suite Lounge Storefronts & Glazing Area C	15	15																								
4150060	Plumbing Rough In Suite Level Area C	8	8																								
4040020	Exterior Masonry Suite Level Area C	15	15																								
4150140	OH FP Rough In Suite Level Area C	5	5																								
4092010	Layout/Metal Studs Suite Level Area C	15	15																								
4150180	In-Wall Plumbing Rough In Suite Level Area C	7	7																								
4040060	Masonry Chase Walls Suite Level Area C	2	2																								
4080160	Doors & Hardware Suite Lvl C	4	4																								
4099010	Painting - Interiors - Suite Level Area C	15	15																								
4160060	OH/In-Wall Elec Rough In Suite Level Area C	15	15																								
4089500	Building Enclosed - Suite Level Area C	0	0																								
4095010	Ceilings Suite Level Area C	10	10																								
4062210	Casework Suite Level Area C	20	20																								
4150210	MEP Finishes Suite Level Area C	20	20																								
4150520	Plumbing Fixtures Suite Level Area C	20	20																								
4101010	Toilet Partitions/Accessories Suite Lvl Area C	15	15																								
AREA D																											
4088030	Suitefront Glazing Area D	5	5																								
4093030	Hang, Tape & Finish Drywall Suite Level Area D	20	20																								
4080170	Doors & Hardware Suite Lvl D	4	4																								
4100010	Painting - Interiors - Suite Level Area D	15	15																								
4096010	Ceilings Suite Level Area D	10	10																								
4151520	Plumbing Fixtures Suite Level Area D	20	20																								
4151210	MEP Finishes Suite Level Area D	20	20																								
4102010	Toilet Partitions/Accessories Suite Lvl Area D	15	15																								
4030030	Prep & Pour Suite Level Slab & Seating Area D	15	15																								

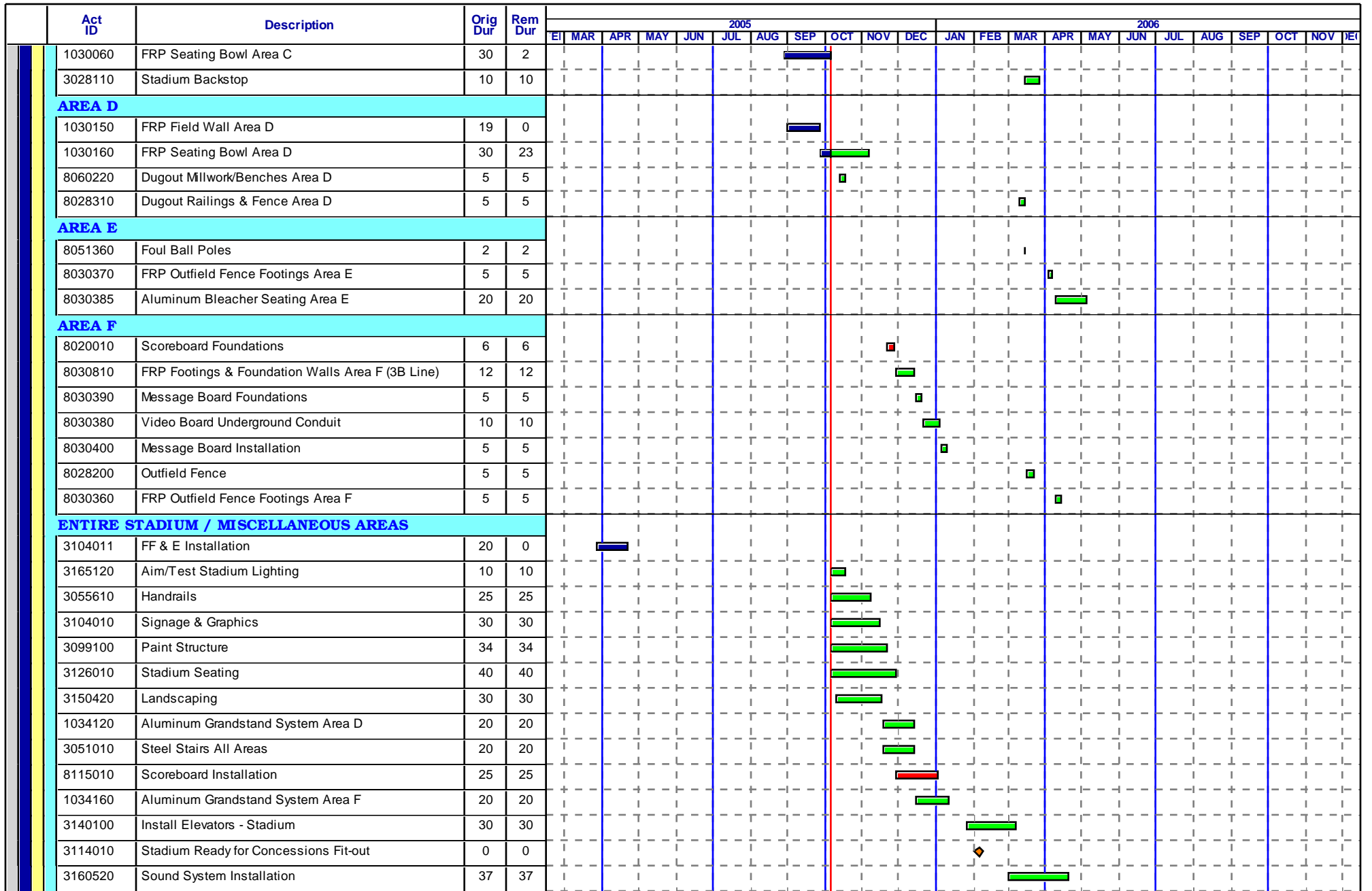
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				EI	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC									
4063210	Casework Suite Level Area D	20	20																																
4150110	OH Duct Rough In Suite Level Area D	5	5																																
4150070	Plumbing Rough In Suite Level Area D	8	8																																
4040030	Exterior Masonry Suite Level Area D	15	15																																
4093010	Layout/Metal Studs Suite Level Area D	15	15																																
4160070	OH/In-Wall Elec Rough In Suite Level Area D	15	15																																
4150150	OH FP Rough In Suite Level Area D	5	5																																
4040070	Masonry Chase Walls Suite Level Area D	2	2																																
AREA E																																			
3040090	Set Picnic Concession Area E	5	5																																
3040100	Picnic Concession MEP Rough In Area E	15	15																																
3040110	Picnic Concession Interior Finishes Area E	10	10																																
ROOF LEVEL																																			
AREA B																																			
5051040	Str Steel/Detail Light Tower Area B	3	3																																
5074010	Roofing - Low & High Roof Area B	25	25																																
5074140	Light Tower Elect Rough In Area B	5	5																																
AREA C																																			
5074020	Roofing - Low & High Roof Area C	25	25																																
AREA D																																			
5074030	Roofing - Low & High Roof Area D	25	25																																
5051050	Str Steel/Detail Light Tower Area D	3	3																																
5051060	Light Tower Elect Rough In Area D	5	5																																
FIELD LEVEL																																			
AREA A																																			
3030155	FRP Walls Area A	16	0																																
AREA B																																			
3030150	FRP Field Wall Area B	17	0																																
3030160	FRP Seating Bowl Area B	30	18																																
8028210	Dugout Railings & Fence Area B	5	5																																
8099110	Painting - Dugout Area B	5	5																																
8150310	MEP Finishes Dugout LV B	5	5																																
8060120	Dugout Millwork/Benches Area B	5	5																																
AREA C																																			
1030050	FRP Field Wall Area C	29	0																																

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APPENDIX B

Medlar Field at Lubrano Park
Detailed Site Layout Plan: Steel / Concrete Phase





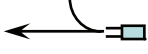


L. Robert Kimball & Assoc.
 Frick Building
 437 Grant Street
 Pittsburgh, PA 15219

DLR Sports Group
 7290 W. 133rd Street
 Overland Park, KS 66213

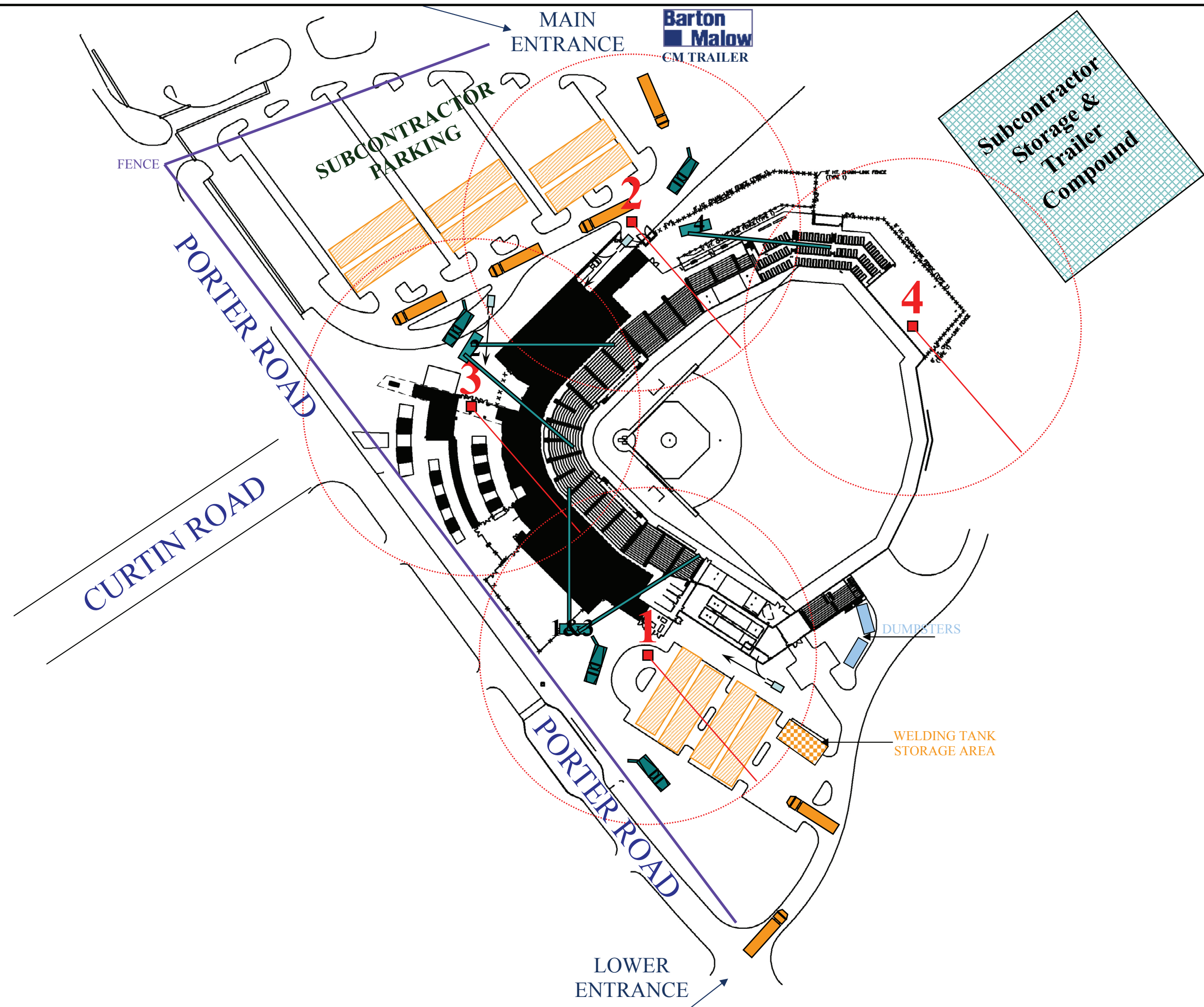
Barton Malow Company
 200 Mansell Court East
 Suite 100
 Roswell, GA 30076

KEY

	Steel Delivery Truck
	Steel Staging
	Concrete Pump & Hose
	Concrete Truck
	Forklift

SITE LAYOUT PLAN
 STEEL / CONCRETE
 SEQUENCE
 Scale: 3/32" = 1'-0"

C13.01



NOTE: This is Jason McFadden's Interpretation of the Site Layout Plan for the Steel/Concrete Sequence.



APPENDIX C

Medlar Field at Lubrano Park Detailed Assembly Estimate



ASSEMBLIES ESTIMATE

Detailed Worksheet

Project Name: Penn State Ballpark

Construction Duration: May 1, 2005 - August 31, 2006 (16 Months)

EQUIPMENT						
SECURITY / VAULT		Notes	Qty	Unit	Price	Amount
E1010.110	Bullet Proof Teller Window	ticket windows	3	EA	\$4,375.00	\$ 13,125
E1010.110	Office Safe	4 hour rating	1	EA	\$1,800.00	\$ 1,800
SUB-TOTAL SECURITY/VAULT						\$ 14,925
LAUNDRY / DRY CLEANING		Notes	Qty	Unit	Price	Amount
E1010.610	Commercial Dryer	locker room area	4	EA	\$2,989.00	\$ 11,956
E1010.610	Commercial Washer	locker room area	4	EA	\$3,164.00	\$ 12,656
SUB-TOTAL LAUNDRY/DRY CLEANING						\$ 24,612
THEATER AND STAGE EQUIPMENT		Notes	Qty	Unit	Price	Amount
E1020.310	Electric Project Screen	media/all purpose room	1	EA	\$2,300.00	\$ 2,300
E1020.310	Sound System/Distributed TV		1	LS	\$350,000.00	\$ 350,000
SUB-TOTAL THEATER/STAGE EQUIPMENT						\$ 352,300
LOADING DOCK EQUIPMENT		Notes	Qty	Unit	Price	Amount
E1030.310	Dock Bumpers	rubber blocks	4	EA	\$65.50	\$ 262
E1030.310	Dock Levelers		2	EA	\$9,625.00	\$ 19,250
SUB-TOTAL LOADING DOCK EQUIPMENT						\$ 19,512
SOLID WASTE HANDLING EQUIP.		Notes	Qty	Unit	Price	Amount
E1090.210	Heavy Duty Compactor		2	EA	\$19,675.00	\$ 39,350
SUB-TOTAL SOLID WASTE HANDLING EQUIPMENT						\$ 39,350
FOOD SERVICE EQUIPMENT		Notes	Qty	Unit	Price	Amount
E1090.350	Broiler		2	EA	\$3,086.00	\$ 6,172
E1090.350	Semi-Automatic Dishwasher		2	EA	\$7,880.00	\$ 15,760
E1090.350	Food Warmer Counter		4	EA	\$665.00	\$ 2,660
E1090.350	Double Fryer		4	EA	\$1,802.00	\$ 7,208
E1090.350	Range Hood		2	EA	\$3,845.00	\$ 7,690
E1090.360	Walk-In Refrigerator (1)	prefabricated	350	SF	\$128.60	\$ 45,010
SUB-TOTAL FOOD SERVICE EQUIPMENT						\$ 84,500
ATHLETIC / RECREATIONAL EQUIP.		Notes	Qty	Unit	Price	Amount
E1090.810	Delux Weight Lifting Gym	training area	1	EA	\$16,225.00	\$ 16,225
E1090.810	Scoreboard/Videoboard		1	LS	\$650,000.00	\$ 650,000
E1090.350	Semi-Automatic Dishwasher		2	EA	\$7,880.00	\$ 15,760
SUB-TOTAL ATHLETIC/RECREATIONAL EQUIPMENT						\$ 681,985
EQUIPMENT TOTAL						\$ 1,217,184
FURNISHINGS						
FIXED MULTIPLE SEATING		Notes	Qty	Unit	Price	Amount
E2010.510	Deluxe Seating	stadium seating	5250	EA	\$544.00	\$ 2,856,000
SUB-TOTAL FIXED MULTIPLE SEATING						\$ 2,856,000
FURNISHINGS		Notes	Qty	Unit	Price	Amount
E2020.210	Office Furniture Set (std.)	team offices / ticket area	12	EA	\$345.00	\$ 4,140
E2020.210	Office Furniture Set (deluxe)	team offices	4	EA	\$2,300.00	\$ 9,200
SUB-TOTAL FURNISHINGS						\$ 13,340
FURNISHINGS TOTAL						\$ 2,869,340
GRAND TOTAL						\$ 4,086,524



APPENDIX D

Medlar Field at Lubrano Park Detailed Structural Estimate



DETAILED STRUCTURAL SYSTEM ESTIMATE

Sheet S1.1D

Project Name: Penn State Ballpark

Construction Duration: May 1, 2005 - August 31, 2006 (16 Months)

CONCRETE		Notes	Qty	Unit	Price	Amount
03060	3/4" Aggregate for SOG	material & hauling	32.5	CY	\$31.10	\$ 1,011
03150	3/4" Anchor Bolts		32	EA	\$9.60	\$ 307
03210	#5 Reinforcing Steel	footing & wall rebar	553	LB	\$0.94	\$ 520
03210	#6 Reinforcing Steel	footing rebar	7,771	LB	\$0.94	\$ 7,305
03210	#8 Reinforcing Steel	footing rebar	5,014	LB	\$0.74	\$ 3,710
03220	WWF 6x6 W1.4xW1.4		24	CSF	\$70.50	\$ 1,671
03310	CIP Footers	material only	162	CY	\$84.00	\$ 13,608
03310	CIP Footers	labor & equipment	163	CY	\$17.70	\$ 2,885
03310	CIP SOG	material only	32.5	CY	\$72.50	\$ 2,356
03310	CIP SOG	labor & equipment	33.5	CY	\$28.00	\$ 938
03350	CIP SOG	finishing	33.5	CY	\$0.70	\$ 23
03310	CIP Retaining Wall	material only	68	CY	\$73.50	\$ 4,998
03110	CIP Retaining Wall	formwork	1632	SFCA	\$8.50	\$ 13,872
SUB-TOTAL CONCRETE						\$ 52,194
MASONRY		Notes	Qty	Unit	Price	Amount
**NOTE: CMU Walls are non-loading bearing in this area and add no significance to the structural calculation						
SUB-TOTAL MASONRY						\$ -
STEEL		Notes	Qty	Unit	Price	Amount
**NOTE: Steel Columns in this area are noted on sheet S2.2D						
SUB-TOTAL STEEL						\$ -
THERMAL & MOISTURE PROTECTION			Qty	Unit	Price	Amount
07130	Waterproofing	walls only	1632	SF	\$2.04	\$ 3,329
07210	Perimeter Insulation	continuous footing only @ C	144	SF	\$2.04	\$ 294
07260	Vapor Retarder	SOG only	126	SQ	\$12.60	\$ 1,588
SUB-TOTAL THERMAL & MOISTURE PROTECTION						\$ 5,211
GRAND TOTAL						\$ 57,404



DETAILED STRUCTURAL SYSTEM ESTIMATE

Sheet S1.2D

Project Name: Penn State Ballpark

Construction Duration: May 1, 2005 - August 31, 2006 (16 Months)

CONCRETE		Notes	Qty	Unit	Price	Amount
SUB-TOTAL CONCRETE						\$ -
MASONRY		Notes	Qty	Unit	Price	Amount
SUB-TOTAL MASONRY						\$ -
STEEL		Notes	Qty	Unit	Price	Amount
SUB-TOTAL STEEL						\$ -
THERMAL & MOISTURE PROTECTION			Qty	Unit	Price	Amount
SUB-TOTAL THERMAL & MOISTURE PROTECTION						\$ -
GRAND TOTAL						\$ -



DETAILED STRUCTURAL SYSTEM ESTIMATE

Sheet S2.2D

Project Name: Penn State Ballpark

Construction Duration: May 1, 2005 - August 31, 2006 (16 Months)

CONCRETE		Notes	Qty	Unit	Price	Amount
03310	CIP SOD	material only	22	CY	\$72.50	\$ 1,595
03310	CIP SOD	labor & equipment	22	CY	\$28.00	\$ 616
03350	CIP SOD	finishing	22	CY	\$0.70	\$ 15
**NOTE: SOD Forms are included in structural steel bent plate calculation						
SUB-TOTAL CONCRETE						\$ 2,226
MASONRY		Notes	Qty	Unit	Price	Amount
**NOTE: CMU Walls are non-loading bearing in this area and add no significance to the structural calculation						
SUB-TOTAL MASONRY						\$ -
STEEL		Notes	Qty	Unit	Price	Amount
05090	3/16" Fillet Weld	for structural steel joists only	15	LF	\$9.20	\$ 138
05120	W12x22	structural beams	52	LF	\$29.00	\$ 1,508
05120	W16x26	structural beams	22	LF	\$32.50	\$ 715
05120	W21x55	structural beams	22	LF	\$67.75	\$ 1,491
05120	W24x62	structural beams	64	LF	\$71.50	\$ 4,576
05120	W14x43	structural columns	60	LF	\$51.50	\$ 3,090
05120	W14X90	structural columns	172	LF	\$102.00	\$ 17,544
05120	W14X132	structural columns	37	LF	\$145.00	\$ 5,365
05120	L3" x 3" x 1/4"	structural steel angle	85.25	LF	\$34.50	\$ 2,941
05120	L3" x 5" x 3/8"	structural steel bent plate	96	LF	\$42.50	\$ 4,080
05210	18LH04	structural steel joists	523	LF	\$18.80	\$ 9,832
05120	L1/4" x 1/4" x 1/8"	joist bracing (each direction)	146	LF	\$6.60	\$ 964
05310	1-1/2" 22GA Composite Deck	structural steel deck	2067	SF	\$2.12	\$ 4,382
SUB-TOTAL STEEL						\$ 56,488
THERMAL & MOISTURE PROTECTION			Qty	Unit	Price	Amount
07260	Vapor Retarder	SOG only	126	SQ	\$12.60	\$ 1,588
SUB-TOTAL THERMAL & MOISTURE PROTECTION						\$ 1,588
GRAND TOTAL						\$ 60,302



DETAILED STRUCTURAL SYSTEM ESTIMATE

Sheet S2.3D

Project Name: Penn State Ballpark

Construction Duration: May 1, 2005 - August 31, 2006 (16 Months)

CONCRETE		Notes	Qty	Unit	Price	Amount
03310	CIP SOD	material only	31.9	CY	\$72.50	\$ 2,313
03310	CIP SOD	labor & equipment	31.9	CY	\$28.00	\$ 893
03350	CIP SOD	finishing	31.9	CY	\$0.70	\$ 22
**NOTE: SOD Forms are included in structural steel bent plate calculation						
SUB-TOTAL CONCRETE						\$ 3,228
MASONRY		Notes	Qty	Unit	Price	Amount
**NOTE: CMU Walls are non-loading bearing in this area and add no significance to the structural calculation						
SUB-TOTAL MASONRY						\$ -
STEEL		Notes	Qty	Unit	Price	Amount
05090	3/4" Anchor Bolts		186	EA	\$24.00	\$ 4,464
05120	W12x16	structural beams	212.5	LF	\$23.00	\$ 4,888
05120	W27x84	structural beams	128.25	LF	\$94.50	\$ 12,120
05120	W30x90	structural beams	42.75	LF	\$100.00	\$ 4,275
05120	W30x108	structural beams	63.75	LF	\$120.00	\$ 7,650
05120	L3" x 5" x 3/8"	structural steel bent plate	73	LF	\$42.50	\$ 3,103
05310	2" 20GA Composite Deck	structural steel deck	2067	SF	\$3.50	\$ 7,235
SUB-TOTAL STEEL						\$ 39,269
THERMAL & MOISTURE PROTECTION			Qty	Unit	Price	Amount
07260	Vapor Retarder	SOG only	126	SQ	\$12.60	\$ 1,588
SUB-TOTAL THERMAL & MOISTURE PROTECTION						\$ 1,588
GRAND TOTAL						\$ 44,085



DETAILED STRUCTURAL SYSTEM ESTIMATE

Sheet S2.4D

Project Name: Penn State Ballpark

Construction Duration: May 1, 2005 - August 31, 2006 (16 Months)

CONCRETE		Notes	Qty	Unit	Price	Amount
**NOTE: Concrete is not calculated for area because this is the roof area						
SUB-TOTAL CONCRETE						\$ -
MASONRY		Notes	Qty	Unit	Price	Amount
**NOTE: CMU Walls are non-loading bearing in this area and add no significance to the structural calculation						
SUB-TOTAL MASONRY						\$ -
STEEL		Notes	Qty	Unit	Price	Amount
05090	3/4" Anchor Bolts		186	EA	\$24.00	\$ 4,464
05120	W8x31	structural beams	18	LF	\$37.50	\$ 675
05120	W16x31	structural beams	128.25	LF	\$38.50	\$ 4,938
05120	W18X35	structural beams	213.75	LF	\$44.00	\$ 9,405
05120	W24x62	structural beams	63.75	LF	\$71.50	\$ 4,558
05120	HSS 20" x 8" x 1/2"	structural steel bent plate	85.5	LF	\$38.50	\$ 3,292
05310	1-1/2" 20GA Roof Deck	structural steel deck	2067	SF	\$2.49	\$ 5,147
SUB-TOTAL STEEL						\$ 28,014
THERMAL & MOISTURE PROTECTION			Qty	Unit	Price	Amount
**NOTE: Roofing is not calculated for area because roofing is not part of the structural calculation						
SUB-TOTAL THERMAL & MOISTURE PROTECTION						\$ -
GRAND TOTAL						\$ 28,014



APPENDIX E

Medlar Field at Lubrano Park Detailed General Conditions Estimate



GENERAL CONDITIONS / REIMBURSABLE ESTIMATE

Detailed Worksheet

Project Name: Penn State Ballpark

Construction Duration: May 1, 2005 - August 31, 2006 (16 Months)

Code	Description	Notes	MATERIAL OR SUB			
			Price	Amount		
PERSONNEL			Qty	Unit	Hrs.	
			Weeks	Hr/Wk		
1020	Project Director	\$78.00/hr	69	8	554	\$ 43,231
1021	Project Administrator		-	0	-	\$ -
1021	Senior Project Manager		-	0	-	\$ -
1022	Project Manager	\$49.00/hr	69	40	2,771	\$ 135,789
1023	Project Engineer - A/S/C	\$28.00/hr	69	40	2,771	\$ 77,594
1024	Project Superintendent	\$57.25/hr	69	40	2,771	\$ 158,651
1024	Assistant Superintendent	\$47.00/hr	30	40	1,212	\$ 56,983
1043	Field Accountant	\$32.00/hr	69	6	416	\$ 13,302
1042	Secretary/Clerk	\$20.75/hr	69	40	2,771	\$ 57,502
	SUB-TOTAL				13,267	\$ 543,051
1601	Payroll Taxes and Insurance (PRTFB)	PTI Factor for PA		37.70%		\$ 204,730
	Fee (100% of W-2)			100%		\$ 543,051
SUB-TOTAL-PERSONNEL						\$ 747,782
FIELD OFFICE SUPPORT			Qty	Unit	Price	Amount
1501	Office Trailer Rental	2 - 12x60 trailers	16	MO	\$800.00	\$ 12,800
1501	Office Space or Trailer Setup	Trailer Setup/removal	1	LS	\$8,000.00	\$ 8,000
1501	Maintain Field Office		16	MO	\$150.00	\$ 2,400
1501	Security System		1	LS	\$500.00	\$ 500
1501	Office Cleaning		16	MO	\$150.00	\$ 2,400
1504	Radios - Nextel	\$70.00 per month*3 persons	16	MO	\$210.00	\$ 3,360
1508	Electric Usage - Trailers and Office		16	MO	\$300.00	\$ 4,800
1509	Water Usage - Trailers and Office		16	MO	\$150.00	\$ 2,400
1524	Telephone/Network Setup		1	LS	\$15,000.00	\$ 15,000
1524	Telephone Monthly Costs		16	MO	\$600.00	\$ 9,600
1602	Office Furniture/Furnishings		16	MO	\$250.00	\$ 4,000
1602	Fax Machines/Supplies		-	LS	\$200.00	\$ -
1603	Office and Miscellaneous Supplies		16	MO	\$250.00	\$ 4,000
1604	Copier/Supplies		16	MO	\$150.00	\$ 2,400
1607	Cameras/Film and Processing	Include aerial	10	MO	\$300.00	\$ 3,000
1608	Drawing Reproduction	For bulletin plans	1	Allow	\$20,000.00	\$ 20,000
1614	Computers/Printers		1	LS	\$5,000	\$ 5,000
1614	Software support (Prolog, Suretrak)		16	MO	\$100.00	\$ 1,600
1636	Postage/Overnight Express		16	MO	\$450.00	\$ 7,200
SUB-TOTAL FIELD OFFICE SUPPORT						\$108,460



RELOCATION, TRAVEL & MEALS		Notes	Qty	Unit	Price	Amount
1615	Local Travel-Field Personnel-Mileage		28	Trip	\$75.00	\$ 2,100
1616	Out-of-Town Travel		32	Trip	\$750.00	\$ 24,000
1616	Field Staff Housing		14	MO	\$2,000.00	\$ 28,000
1617	Staff Relocation Expenses		1	LS	\$10,000.00	\$ 10,000
1719	Business Meals/Working Lunches		14	MO	\$50.00	\$ 700
SUB-TOTAL RELOCATION, TRAVEL & MEALS						\$64,800
TEMPORARY UTILITIES-TEMPORARY HEAT						
**ALL TEMPORARY UTILITIES PURCHASED FROM SUBCONTRACTORS AS PART OF BASE BID						
SUB-TOTAL TEMPORARY UTILITIES-TEMPORARY HEAT						\$0
TEMPORARY FACILITIES, FENCES AND BARRICADES			Qty	Unit	Price	Amount
1632	Drinking Water		14	MO	\$75.00	\$ 1,050
SUB-TOTAL-TEMPORARY FACILITIES, FENCES AND BARRICADES						\$ 1,050
WEATHER PROTECTION						
**ALL WEATHER PROTECTION PURCHASED FROM SUBCONTRACTORS AS PART OF BASE BID						
SUB-TOTAL-WEATHER PROTECTION						\$0
SAFETY AND SECURITY		Notes	Qty	Unit	Price	Amount
1606	Safety Incentives		1	LS	\$500.00	\$ 500
1606	Extinguishers	Bought from Subcontractor	-	EA	\$100.00	\$ -
1606	First Aid Kit		1	LS	\$500.00	\$ 500
1606	Hard Hats and Rain Gear	Including Body Harness	1	LS	\$500.00	\$ 500
1606	Safety Signs		1	LS	\$250.00	\$ 250
SUB-TOTAL-SAFETY AND SECURITY						\$1,750
CLEAN-UP		Notes	Qty	Unit	Price	Amount
1511	Clean-up Supervision	2 lab/16 hours per week	17	wk	\$480.00	\$ 8,314
1511	Periodic Clean-up	Bought from Subcontractor	-	SF	\$0.13	\$ -
1512	Final Clean-up		107,000	SF	\$0.12	\$ 12,840
1512	Final Glass Cleaning	Bought from Subcontractor	-	SF	\$0.50	\$ -
1513	Pick Up Truck / golf cart		1	LS	\$5,000.00	\$ 5,000
1513	Dumpsters	Bought from Subcontractors	-	EA	\$275.00	\$ -
1513	Dump Fees with Dumpsters	Bought from Subcontractors	-	LS	\$0.00	\$ -
1513	Rubbish chutes-install/maintain/remove	Bought from Subcontractor	-	LS	\$4,000.00	\$ -
1513	Dump carts	Bought from Subcontractor	-	LS	\$2,000.00	\$ -
SUB-TOTAL-CLEAN-UP						\$26,154
PROTECTION OF FINISHED AND EXISTING WORK						
**PROTECTION OF WORK AREAS IS RESPONSIBILITY OF EACH SUBCONTRACTOR AS OUTLINED IN CONTRACT						
SUB-TOTAL-PROTECTION OF FINISHED AND EXISTING WORK						\$0
TOOLS AND EQUIPMENT		Notes	Qty	Unit	Price	Amount
1622	Small Tools		1	LS	\$5,000.00	\$ 5,000
SUB-TOTAL-TOOLS AND EQUIPMENT						\$5,000



MATERIAL HANDLING AND HOISTS						
**ALL MATERIAL HANDLING/HOISTS PURCHASED FROM SUBCONTRACTORS AS PART OF BASE BID						
SUB-TOTAL-MATERIAL HANDLING AND HOISTS						\$0
CONSULTANT AND PROFESSIONAL SERVICES			Qty	Unit	Price	Amount
1638	Surveyors	Initial Building Layout	1	LS	\$10,000.00	\$ 10,000
SUB-TOTAL-CONSULTANT AND PROFESSIONAL SERVICES						\$10,000
PERMITS AND FEES						
**ALL PERMITS AND FEES PURCHASED BY OWNER AND/OR SUBCONTRACTORS						
SUB-TOTAL-PERMITS AND FEES						\$0
INSURANCE AND BOND PREMIUMS		Notes	Qty	Unit	Price	Amount
1610	General/Umbrella Liability Ins.	3.96/1000 on \$15.7M	1	LS	\$74,448	\$ 74,448
SUB-TOTAL-INSURANCE AND BOND PREMIUMS						\$74,448
GRAND TOTAL						\$ 1,039,443