

**UNIVERSITY OF LOUISVILLE
STUDENT RECREATIONAL FACILITY**

LOUISVILLE, KENTUCKY

DESIGN DEVELOPMENT ESTIMATE

GROSS SQ. FT. 128,300 sf

DATE: September 9, 2011

SUMMARY:	COST/SF \$/SF	TOTAL COST \$
SUBSTRUCTURE	8.17	1,047,885
SUPERSTRUCTURE	39.03	5,007,078
EXTERIOR ENCLOSURE	30.88	3,961,495
ROOFING	6.21	796,755
STAIRS AND CONVEYING SYSTEMS	1.71	219,000
INTERIOR WALLS AND DOORS	8.38	1,075,077
WALL FINISHES	1.92	246,059
FLOOR FINISHES	6.99	896,435
CEILING FINISHES	3.84	493,095
SPECIALTIES AND EQUIPMENT	10.81	1,386,674
FIRE PROTECTION	2.50	320,750
PLUMBING	3.52	452,162
HVAC	30.21	3,876,030
ELECTRICAL	26.00	3,336,113
SITWORK	19.06	2,445,096
TOTAL DIRECT COST	\$199.22	\$25,559,703
GENERAL REQUIREMENTS (8%)		2,044,776
G.C.'S FEE (3%)		828,520
TOTAL ESTIMATED COST	\$221.61	\$28,433,000

SUBSTRUCTURE

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
02200	EARTHWORK				
02200/010	Dense grade aggregate	1,315	CY	36.00	47,340
02200/020	Termite control	710	CSF	45.00	31,950
02200/030	Unknown excavation	1	LS	25,000.00	25,000
					104,290
02350	PILES AND CAISSONS				
02350/010	Auger cast piles, 16" diameter, 45' long	5,085	LF	40.00	203,400
02350/020	Mobilization	1	LS	15,000.00	15,000
02350/030	Test pile	1	EA	5,000.00	5,000
					223,400
03200	REINFORCEMENT				
03200/010	Mesh	710	CSF	45.00	31,950
					31,950
03300	CONCRETE WORK				
03300/010	Pile caps	113	EA	1,500.00	169,500
03300/020	Foundations	1,350	LF	75.00	101,250
03300/030	Slab on grade	1,315	CY	195.00	256,425
03300/040	Extra for ramps	595	SF	6.00	3,570
03300/050	Extra for steps	330	LF	35.00	11,550
03300/060	Elevator pit	1	EA	7,500.00	7,500
03300/070	Finish slabs	710	CSF	100.00	71,000
03300/080	Vapor barrier	710	CSF	60.00	42,600
03300/090	Control joints	710	CSF	35.00	24,850
					688,245
	SUBSTRUCTURE TOTAL				\$1,047,885

SUPERSTRUCTURE

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
03200	REINFORCEMENT				
03200/010	Mesh	545	CSF	45.00	24,525
					24,525
03300	CONCRETE WORK				
03300/010	Suspended slab	1,255	CY	195.00	244,725
03300/020	Finish slabs	545	CSF	100.00	54,500
03300/030	Extra for isolated slab	9,465	SF	8.00	75,720
03300/040	Control joints	545	CSF	35.00	19,075
					394,020
05100	STRUCTURAL STEEL FRAMING				
05100/010	Structural steel columns	205	TON	3,200.00	656,000
05100/020	Structural steel beams	300	TON	3,200.00	960,000
05100/030	Floor and roof truss	275	TON	3,300.00	907,500
05100/040	Joists	25	TON	2,900.00	72,500
05100/050	Miscellaneous steel framing	120	TON	3,600.00	432,000
05100/060	Steel wall framing	110	TON	3,100.00	341,000
05100/070	Base plates	113	EA	35.00	3,955
05100/080	Anchor bolts	452	EA	25.00	11,300
05100/090	Metal floor deck	54,585	SF	2.00	109,170
05100/100	Metal roof deck	71,965	SF	1.50	107,948
05100/110	Extra for acoustic roof deck	26,165	SF	4.00	104,660
					3,706,033
07800	FIREPROOFING				
07800/010	Sprayed fireproofing	805	TON	500.00	402,500
07800/020	Extra for intumescent fireproofing	540	TON	750.00	405,000
07800/030	Extra for intumescent fireproofing, finished	40	TON	1,875.00	75,000
					882,500
	SUPERSTRUCTURE TOTAL				\$5,007,078

EXTERIOR ENCLOSURE

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
04200	UNIT MASONRY				
04200/010	Facing brick	15,455	SF	15.00	231,825
04200/020	Brick bands, sills, details etc. allowance	1	LS	47,000.00	47,000
04200/030	12" CMU	4,115	SF	12.00	49,380
					328,205
05300	METAL FRAMING				
05300/010	6" Metal studs	13,055	SF	3.55	46,345
					46,345
07200	INSULATION				
07200/010	Batt insulation	16,915	SF	1.22	20,636
07200/020	Rigid insulation	20,240	SF	1.40	28,336
07200/030	Dampproofing	2,400	SF	1.60	3,840
07200/040	Vapor barrier	67,025	SF	0.45	30,161
					82,974
07500	METAL WALL PANELS				
07500/010	Insulated metal wall panels	49,740	SF	21.00	1,044,540
07500/020	Insulated corrugated metal wall panels	4,230	SF	23.00	97,290
07500/020	Interior wall liner	8,330	SF	12.75	106,208
07500/030	Extra for custom color	5,950	SF	10.00	59,500
07500/040	Extra for curved surface	4,230	SF	15.00	63,450
07500/050	Metal soffit panels, custom color	2,240	SF	22.00	49,280
					1,420,268
08100	METAL DOORS AND FRAMES				
08100/010	H.M. door frame, single	4	EA	135.00	540
08100/020	H.M. door frame, double	5	EA	165.00	825
08100/030	Hollow metal door	14	EA	365.00	5,110
					6,475
08300	ENTRANCES DOORS				
08300/010	Aluminum entrance doors, single	1	EA	3,500.00	3,500
08300/020	Aluminum entrance doors, double	4	EA	5,500.00	22,000
					25,500
08700	HARDWARE				
08700/010	Hardware, Single	4	EA	550.00	2,200
08700/020	Hardware, Double	5	EA	950.00	4,750
08700/030	Panic hardware	12	EA	550.00	6,600
					13,550
08800	CURTAIN WALL				
08800/010	Curtain wall system with solar reflective coating	11,145	SF	100.00	1,114,500
08800/010	Aluminum windows with solar reflective coating and frit pattern	5,715	SF	55.00	314,325
08800/010	Extra for spandrel panel	160	SF	10.00	1,600
08800/020	Extra for special finish		SF	10.00	
08800/030	Storefront glazing with low E	9,040	SF	40.00	361,600
					1,792,025
09200	PLASTER & GYPSUM				
09200/010	Drywall	65,310	SF	1.25	81,638
09200/020	Sheathing	67,025	SF	1.45	97,186
					178,824

EXTERIOR ENCLOSURE

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
09900	PAINTING				
09900/010	Paint doors and frames	14	EA	95.00	1,330
					1,330
10520	LOUVERS				
10520/010	Louvers	1,200	SF	55.00	66,000
					66,000
	EXTERIOR ENCLOSURE TOTAL				\$3,961,495

ROOFING

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
06100	ROUGH CARPENTRY				
06100/010	Blocking	128,300	SF	0.50	64,150
					64,150
07200	INSULATION				
07200/010	Tapered roof insulation	71,965	SF	1.45	104,349
					104,349
07500	ROOFING				
07500/010	Modified bitumen membrane roofing	71,965	SF	6.55	471,371
					471,371
07600	FLASHING & SHEET METAL				
07600/010	Coping, flashing, etc	1,685	LF	36.00	60,660
07600/020	Roof hatch		EA	5,500.00	
					60,660
07900	CAULKING & SEALANTS				
07900/010	Caulking and sealants	128,300	SF	0.75	96,225
					96,225
	ROOFING TOTAL				\$796,755

STAIRS AND CONVEYING SYSTEMS

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
05300	METAL STAIRS				
05300/010	Metal pan stair including railing	10	FLT	5,500.00	55,000
05300/020	Monumental stair	2	FLT	15,000.00	30,000
05300/030	Glass railing to monemental stair	140	LF	350.00	49,000
					134,000
14200	ELEVATORS				
14200/010	Passenger elevator, 3 stop	1	EA	85,000.00	85,000
					85,000
	STAIRS AND CONVEYING SYSTEMS TOTAL				\$219,000

INTERIOR WALLS AND DOORS

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
04200	UNIT MASONRY				
04200/010	12" CMU	6,560	SF	12.00	78,720
04200/020	8" CMU	23,215	SF	11.00	255,365
04200/030	6" CMU	4,080	SF	10.00	40,800
04200/040	4" CMU	2,080	SF	9.00	18,720
					393,605
08100	METAL DOORS AND FRAMES				
08100/010	H.M. door frame, single	76	EA	135.00	10,260
08100/020	H.M. door frame, double	10	EA	165.00	1,650
08100/030	H.M. door	23	EA	265.00	6,095
08100/040	Interior aluminum entrance doors, single	8	EA	3,300.00	26,400
					44,405
08200	WOOD DOORS				
08100/010	Solid core wood doors	66	EA	255.00	16,830
08100/020	Extra for glass panels	14	EA	95.00	1,330
08100/030	Extra for full glass door	16	EA	155.00	2,480
08100/040	All glass door	7	EA	550.00	3,850
					24,490
08500	WINDOWS				
08500/010	Interior glass partition to Sports Club	795	SF	40.00	31,800
08500/020	Interior glazing to Lobby	2,665	SF	40.00	106,600
08500/030	Interior glass partitions to Aerobics	440	SF	40.00	17,600
08500/040	Interior glass partitions	1,230	SF	28.00	34,440
					190,440
08700	HARDWARE				
08700/010	Hardware, Single	76	EA	550.00	41,800
08700/020	Hardware, Double	10	EA	950.00	9,500
08700/030	Extra for panic hardware	15	EA	550.00	8,250
					59,550
08800	CURTAIN WALL				
08800/010	Interior curtain wall system	420	SF	90.00	37,800
					37,800

INTERIOR WALLS AND DOORS

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
08800	GLAZING				
08800/010	Full height mirrors	1,685	SF	16.00	26,960
08800/020	Bathroom mirrors	475	SF	16.00	7,600
					34,560
09200	PLASTER & GYPSUM				
09200/010	Drywall on furring channels	745	SF	3.55	2,645
09200/020	3 5/8" Metal stud with drywall one side	5,175	SF	5.00	25,875
09200/030	2 1/2" Metal stud with drywall one side	2,190	SF	4.70	10,293
09200/040	3 5/8" Metal stud partitions	26,150	SF	6.25	163,438
09200/050	2 1/2" Metal stud partitions	880	SF	5.95	5,236
09200/060	3 5/8" Metal stud with 2 layers of drywall	8,000	SF	8.75	70,000
09200/070	6" Metal stud partition	660	SF	6.85	4,521
09200/080	Extra for abuse resistant drywall	2,880	SF	2.00	5,760
					287,767
09900	PAINTING				
09900/010	Paint doors and frames	14	EA	95.00	1,330
					1,330
10510	CHAIN LINK				
10510/010	Interior fence	25	LF	35.00	875
10510/020	Gate	1	EA	255.00	255
					1,130
	INTERIOR WALLS AND DOORS TOTAL				\$1,075,077

WALL FINISHES

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
09300	TILE				
09300/010	Ceramic wall tile	4,575	SF	6.00	27,450
					27,450
09900	PAINTING				
09900/010	Paint walls	214,625	SF	0.95	203,894
09900/020	Extra for epoxy paint walls	4,905	SF	3.00	14,715
					218,609
	WALL FINISHES TOTAL				\$246,059

FLOOR FINISHES

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
09300	TILE				
09300/010	Ceramic floor tile	3,340	SF	7.00	23,380
09300/020	Ceramic tile base	765	LF	6.50	4,973
					28,353
09550	WOOD				
09550/010	Wood sports flooring, including base and striping	38,745	SF	9.50	368,078
09550/020	Wood sports flooring to Aerobics (WAF 2)	7,690	SF	9.50	73,055
09550/030	Wood sports flooring to Racquetball Court (WAF 1)	3,345	SF	9.50	31,778
					472,910
09650	RESILIENT FLOORING				
09650/010	Rubber floor tile RAF-1 (Fitness)	13,225	SF	11.00	145,475
09650/020	Polyurethane floor system RAF-2 (MAC Gym)	7,450	SF	8.30	61,835
09650/030	Rubber sheet floor RAF-3 (Track)	4,155	SF	7.80	32,409
09650/040	Sheert vinyl flooring RAF-4 (Classrooms)	1,835	SF	4.50	8,258
09650/050	Rubber base	13,415	LF	1.55	20,793
09650/060	Epoxy flooring	4,820	SF	6.00	28,920
					297,690
09680	CARPET				
09680/010	Carpet	590	SY	40.00	23,600
					23,600
09900	PAINTING				
09900/010	Seal concrete	13,725	SF	0.50	6,863
09900/020	Stained concrete	22,340	SF	3.00	67,020
					73,883
	FLOOR FINISHES TOTAL				\$896,435

CEILING FINISHES

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
09200	PLASTER & GYPSUM				
09200/010	Drywall bulkhead, allowance	3,500	SF	5.35	18,725
09200/020	Drywall ceiling	16,295	SF	6.05	98,585
					117,310
09500	ACOUSTICAL TREATMENT				
09500/010	2 x 2 Acoustic ceiling	42,365	SF	3.95	167,342
09500/020	Metal pan ceilings	4,660	SF	15.00	69,900
09500/020	Acoustic treatments, allowance	1	LS	50,000.00	50,000
					287,242
09900	PAINTING				
09900/010	Paint ceilings, soffits and bulkheads	19,795	SF	1.17	23,160
09900/020	Paint exposed structure	62,270	SF	1.05	65,384
					88,544
	CEILING FINISHES TOTAL				\$493,095

SPECIALTIES AND EQUIPMENT

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
05500	<u>METAL FABRICATIONS</u>				
05500/010	Pit ladders	1	EA	550.00	550
05500/020	Interior glass railing	230	LF	350.00	80,500
05500/030	Running track railing	430	LF	300.00	129,000
05500/040	Exercise rail	50	LF	65.00	3,250
05500/050	Roof access ladders	2	EA	1,550.00	3,100
					216,400
06400	<u>ARCHITECTURAL WOODWORK</u>				
06400/010	Check In desk	75	LF	550.00	41,250
06400/020	Juice bar counter	65	LF	450.00	29,250
06400/030	Base cabinet	105	LF	135.00	14,175
06400/040	Wall cabinet	15	LF	105.00	1,575
06400/050	Reception desk	25	LF	550.00	13,750
06400/060	Mailboxes	1	EA	1,500.00	1,500
06400/070	Lounge bench	35	LF	55.00	1,925
06400/080	Transaction booth	2	EA	2,750.00	5,500
06400/090	Bathroom vanity	75	LF	130.00	9,750
06400/100	Bathroom counter	120	LF	65.00	7,800
06400/110	Bench	655	LF	35.00	22,925
06400/120	Aerobics cubbies	95	LF	250.00	23,750
					173,150
10100	<u>MARKER BOARDS</u>				
10100/010	Markerboards, allowance	15	EA	455.00	6,825
					6,825
10140	<u>SIGNAGE</u>				
10140/010	Interior signs	128,300	SF	0.50	64,150
					64,150
10150	<u>COMPARTMENTS AND CUBICLES</u>				
10150/010	Toilet partition	24	EA	1,100.00	26,400
10150/020	Urinal screens	6	EA	300.00	1,800
					28,200
10260	<u>WALL AND DOOR PROTECTION</u>				
10260/010	Wall and corner guards	30	EA	55.00	1,650
					1,650
10500	<u>LOCKERS</u>				
10500/010	Lockers	605	EA	250.00	151,250
					151,250
10520	<u>FIRE PROTECTION SPECIALTIES</u>				
10520/010	Fire extinguishers & cabinets	10	EA	450.00	4,500
					4,500
10560	<u>METAL SHELVING</u>				
10560/010	Moveable shelving system	50	LF	1,500.00	75,000
					75,000
10650	<u>OPERABLE PARTITION</u>				
10650/010	Operable partition	240	SF	55.00	13,200
10650/020	Track	25	LF	45.00	1,125
					14,325

SPECIALTIES AND EQUIPMENT

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
10800	<u>TOILET & BATH ACCESSORIES</u>				
10800/010	Shower curtain & rod	29	EA	45.00	1,305
10800/020	Towel pin	17	EA	15.00	255
10800/030	Grab bars	25	EA	55.00	1,375
10800/040	Shower seat	3	EA	225.00	675
10800/050	Electric hair dryer	4	EA	800.00	3,200
10800/060	Purse shelf	26	EA	20.00	520
10800/070	Toilet paper dispenser	27	EA	85.00	2,295
10800/080	Sanitary disposal	18	EA	125.00	2,250
10800/090	Electric hand dryer	11	EA	635.00	6,985
10800/100	Soap dispenser	23	EA	35.00	805
10800/110	Sanitary supplies dispenser	1	EA	180.00	180
10800/120	Paper towel dispenser	2	EA	145.00	290
10800/130	Baby changing station	3	EA	355.00	1,065
10800/140	Mirror with shelf	3	EA	115.00	345
10800/150	Mop holders	2	EA	55.00	110
					21,655
11110	<u>LAUNDRY EQUIPMENT</u>				
11100/010	Washer	2	EA	9,260.00	18,520
11100/020	Dryer	2	EA	2,993.00	5,986
					24,506
11480	<u>BASKETBALL COURT</u>				
11480/010	Basketball Goals, Ceiling Mounted	12	EA	5,500.00	66,000
11480/020	Wall Pads	900	SF	7.87	7,083
11480/030	Volleyball inserts	8	EA	1,500.00	12,000
11480/040	Interior glass partition to Gym	1,100	SF	52.50	57,750
11480/050	Badminton inserts	6	EA	1,500.00	9,000
11480/060	Divider curtains	4,590	SF	22.00	100,980
					252,813
11480	<u>RACQUETBALL COURT</u>				
11480/010	Racquetball courts, complete	4	EA	36,000.00	144,000
11480/020	Interior glass partition to Racquetball court	1,040	SF	40.00	41,600
11480/030	Moveable glass wall to Racquetball court	1	EA	28,800.00	28,800
					214,400
11480	<u>MAC</u>				
11480/010	Interior glass partition to MAC	1,040	SF	52.50	54,600
11480/020	Dasher board system	340	LF	45.00	15,300
					69,900
11413	<u>TURNSTILES</u>				
11413/010	Turnstiles and gates	5	EA	3,500.00	17,500
					17,500
11310	<u>RESIDENTAIL APPLIANCES</u>				
11310/010	Microwave oven	1	EA	550.00	550
11310/020	Refrigerator/freezer	1	EA	1,100.00	1,100
11310/030	Dishwasher	1	EA	500.00	500
					2,150
11400	<u>FOODSERVICE EQUIPMENT</u>				
11400/010	Food service equipment				NIC

SPECIALTIES AND EQUIPMENT

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
11520 11520/010	PROJECTION SCREEN Manual projection screen	2	EA	1,100.00	2,200
					2,200
11664 11664/010	SCOREBOARDS Scoreboards				NIC
12120 12210/010	BLINDS Window shades	3,425	SF	12.00	41,100
					41,100
12690 12690/010	FLOOR MATS Recessed floor mats	2	EA	2,500.00	5,000
					5,000
	SPECIALTIES AND EQUIPMENT TOTAL				\$1,386,674

MECHANICAL

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
15300 15300/010	FIRE PROTECTION Sprinkle new building	128,300	SF	2.50	320,750
					320,750
	FIRE PROTECTION TOTAL				\$320,750

MECHANICAL

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
<u>PLUMBING</u>					
15410	<u>DOMESTIC WATER PIPING</u>				
15410/010	Pipe & fittings	1	LS	65,000.00	65,000
					65,000
15420	<u>GAS PIPING</u>				
15420/010	Pipe & fittings	1	LS	3,500.00	3,500
					3,500
15430	<u>SANITARY & VENT PIPING BELOW GRADE</u>				
15430/010	Pipe & fittings, 2"	205	LF	12.40	2,542
15430/020	Pipe & fittings, 3"	385	LF	16.60	6,391
15430/020	Pipe & fittings, 4"	205	LF	27.50	5,638
15430/020	Pipe & fittings, 6"	305	LF	35.60	10,858
15430/020	Excavation	245	CY	26.00	6,370
					31,799
15430	<u>SANITARY & VENT PIPING</u>				
15430/010	Pipe & fittings	1	LS	32,000.00	32,000
15430/020	Floor drains	16	EA	225.00	3,600
					35,600
15437	<u>STORM PIPING</u>				
15437/010	Pipe & fittings	1	LS	220,000.00	220,000
					220,000
15440	<u>PLUMBING FIXTURES & TRIM</u>				
15440/010	Water Closet	27	EA	790.00	21,330
15440/020	Lavatories Counter	26	EA	407.00	10,582
15440/020	Lavatories Wall	3	EA	583.00	1,749
15440/030	Urinals	6	EA	890.00	5,340
15440/040	Sinks, double	2	EA	870.00	1,740
15440/050	Janitor sinks	1	EA	390.00	390
15440/060	Water coolers	3	EA	1,570.00	4,710
15440/070	Shower	15	EA	420.00	6,300
15440/080	Water heater - heat pump	1	EA	35,000.00	35,000
15440/090	Laundry sink	1	EA	460.00	460
15440/100	Pumps	2	EA	56.00	112
15440/120	Storage tanks	2	EA	3,300.00	6,600
15440/130	Expansion tanks	1	EA	1,950.00	1,950
					96,263
	PLUMBING TOTAL				\$452,162

MECHANICAL

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
HVAC					
15400	GEOTHERMAL				
15400/010	Wells, pvc casing, etc 400' deep	72,000	LF	17.00	1,224,000
15400/020	Vault	1	EA	3,500.00	3,500
					1,227,500
15500	PIPING				
15500/010	Heat pump piping	1	LS	296,000.00	296,000
15500/020	Radiant heat	400	LF	70.00	28,000
					324,000
15550	EQUIPMENT				
15550/010	Modular air handling unit	1	EA	62,300.00	62,300
15550/020	Heat pump water to water	3	EA	36,300.00	108,900
15550/030	Energy recovery wheels	2	EA	144,600.00	289,200
15550/040	Storage tank	1	EA	5,500.00	5,500
15550/050	Big Ass fan, 12'	6	EA	8,600.00	51,600
15550/060	Big Ass fan, 8'	12	EA	3,800.00	45,600
15550/070	Heat pumps HP 24	11	EA	2,230.00	24,530
15550/070	Heat pumps HP 36	2	EA	3,100.00	6,200
15550/070	Heat pumps HP 48	5	EA	3,700.00	18,500
15550/070	Heat pumps HP 300	10	EA	15,200.00	152,000
15550/080	Circulating pumps	6	EA	5,200.00	31,200
15550/090	Exhaust fans	1	LS	90,000.00	90,000
					885,530
15570	AIR DISTRIBUTION				
15570/010	Galvanized & Flex Duct	110,000	LBS	8.00	880,000
15570/020	VAV boxes	1	LS	51,000.00	51,000
15570/030	Grilles & diffusers	250	EA	280.00	70,000
					1,001,000
15600	AUTOMATIC CONTROLS				
15600/010	Controls and Energy Management	1	LS	438,000.00	438,000
					438,000
HVAC TOTAL					\$3,876,030
TOTAL MECHANICAL					\$4,648,942

ELECTRICAL

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
16010	POWER & DISTRIBUTION				
16010/010	Switchboard 2500 A	1	EA	55,800.00	55,800
16010/020	Switchboard 1600 A	1	EA	44,600.00	44,600
16010/030	Panel 277/480 100 A	12	EA	3,380.00	40,560
16010/040	Panel 277/480 600 A	1	EA	8,025.00	8,025
16010/050	Panel 120/208 100 A	4	EA	1,330.00	5,320
16010/060	Panel 120/208 200 A	1	EA	2,425.00	2,425
16010/070	Panel 120/208 225 A	10	EA	2,425.00	24,250
16010/080	Panel 120/208 225 A Double	1	EA	4,800.00	4,800
16010/090	Panel 120/208 400 A	3	EA	5,100.00	15,300
16010/100	Transformers 15KVA	2	EA	2,850.00	5,700
16010/110	Transformers 30KVA	3	EA	3,400.00	10,200
16010/120	Transformers 45 KVA	1	EA	4,100.00	4,100
16010/130	Transformers 75 KVA	1	EA	5,490.00	5,490
16010/140	Transformers 112.5 KVA	1	EA	6,950.00	6,950
16010/150	Emergency generator 100KW	1	EA	32,000.00	32,000
16010/160	Mechanical equipment	1	LS	72,000.00	72,000
16010/170	Feeders	1	LS	120,000.00	120,000
					457,520
16500	LIGHTING				
16500/010	Fixture, A	400	EA	320.00	128,000
16500/020	Fixture, B	128	EA	410.00	52,480
16500/030	Fixture, C	388	EA	235.00	91,180
16500/040	Fixture, D	216	EA	690.00	149,040
16500/050	Fixture, F	12	EA	390.00	4,680
16500/060	Fixture, G	2	EA	220.00	440
16500/070	Fixture, H	34	EA	330.00	11,220
16500/080	Fixture, J	40	EA	230.00	9,200
16500/090	Fixture, K1	34	EA	280.00	9,520
16500/100	Occupancy sensor	56	EA	550.00	30,800
16500/110	Switches 1P	5	EA	60.00	300
16500/120	Switches 3 P	10	EA	75.00	750
16500/130	Conduit & wiring	128,300	SF	1.50	192,450
					680,060
16510	SMALL POWER				
16510/010	Duplex receptacles	210	EA	60.00	12,600
16510/020	Quadruplex receptacles	42	EA	80.00	3,360
16510/030	GFI receptacles	33	EA	86.00	2,838
16510/040	Conduit & wiring	128,300	SF	1.00	128,300
					147,098
16700	SYSTEMS				
16700/010	Fire Alarm	128,300	SF	2.50	320,750
16700/020	Telecommunications	128,300	SF	3.75	481,125
16700/030	Digital surveillance	128,300	SF	3.50	449,050
16700/040	Access Control	128,300	SF	2.70	346,410
16700/050	Intrusion	128,300	SF	2.00	256,600
16700/060	CATV/Video	128,300	SF	1.25	160,375
16700/070	Speakers	135	EA	275.00	37,125
					2,051,435
	ELECTRICAL TOTAL				\$3,336,113

SITWORK

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
02230	SITE PREPARATION				
02230/010	Remove asphalt paving	27,425	SY	11.00	301,675
02230/020	Excavate to reduce levels	7,860	CY	6.00	47,160
02230/030	Fill to make up levels, with excavated material	3,400	CY	4.00	13,600
02230/040	Disposal off site	4,460	CY	11.00	49,060
02230/050	Grade site	27,425	SY	2.00	54,850
02230/060	Erosion control	128,300	SF	0.10	12,830
					479,175
02600	SITE UTILITIES				
02600/010	Fire water	790	LF	45.00	35,550
02600/020	Domestic water	830	LF	51.00	42,330
02600/030	Sanitary	375	LF	26.00	9,750
02600/040	Gas	370	LF	21.00	7,770
02600/050	Fire hydrant	2	EA	1,600.00	3,200
02600/060	Excavation	435	CY	15.00	6,525
					105,125
02600	SITE DRAINAGE				
02600/010	Pipe, 6"	1,780	LF	15.00	26,700
02600/020	Pipe, 12"	670	LF	20.00	13,400
02600/030	Curb inlet	9	EA	1,300.00	11,700
02600/040	Catch basin	7	EA	2,500.00	17,500
02600/050	Yard drains	8	EA	1,100.00	8,800
02600/060	Manhole	2	EA	2,500.00	5,000
02600/070	Water quality unit	1	EA	3,500.00	3,500
02600/080	Underground detention basin	2,450	CY	36.00	88,200
					174,800
02600	ELECTRICAL SITE UTILITIES				
02600/010	Electrical service, 2500 A	455	LF	760.00	345,800
02600/020	Transformer pad	1	EA	550.00	550
02600/030	Generator pad	1	EA	550.00	550
02600/040	Fibre optics	500	LF	150.00	75,000
02600/050	Emergency power	50	LF	390.00	19,500
02600/060	Manhole	1	EA	1,350.00	1,350
02600/070	Remove lighting	42	EA	300.00	12,600
02600/080	Light OL 1R	5	EA	1,240.00	6,200
02600/090	Light OL 3	7	EA	2,800.00	19,600
02600/100	Light OL 4	4	EA	2,100.00	8,400
02600/110	Conduit & wire	1,240	LF	6.65	8,246
					497,796

SITWORK

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	TOTAL
02741	PAVING				
02741/010	Asphalt pavement, including striping	3,040	SY	18.00	54,720
02741/020	Heavy duty asphalt paving	810	SY	24.00	19,440
02741/020	Concrete pavers	3,265	SF	11.00	35,915
02741/030	Concrete paving	13,155	SF	8.00	105,240
02741/040	Permeable pavers	2,525	SF	14.00	35,350
02741/050	Parking pervious pavers	1,110	SF	14.00	15,540
02741/050	Concrete sidewalks	23,560	SF	6.00	141,360
02741/050	Header curb	2,315	LF	9.00	20,835
02741/050	Sidewalk ramps	1	EA	550.00	550
02741/050	Detectable warning	6	EA	250.00	1,500
02741/050	Concrete curb and gutter	325	LF	11.00	3,575
02741/050	Ribbon curb	425	LF	13.00	5,525
					439,550
02800	SITE IMPROVEMENTS				
02800/010	Dumpster enclosure	1	EA	2,500.00	2,500
02800/020	Flagpole	1	EA	2,500.00	2,500
02800/030	Bike racks	6	EA	350.00	2,100
02800/040	Concrete seating structures	435	LF	115.00	50,025
02800/050	Trash receptacles	6	EA	1,100.00	6,600
02800/060	Bollards	14	EA	95.00	1,330
					65,055
02810	FENCES AND GATES				
02810/010	Decorative fence, 12' Tall	675	LF	35.00	23,625
02810/020	Double gate	1	EA	2,750.00	2,750
02810/030	Chain link fence, 12' tall	965	LF	25.00	24,125
02810/040	Double gate	1	EA	1,900.00	1,900
02810/050	Containment net	165	LF	25.00	4,125
					56,525
02850	GREAT LAWN				
02850/010	Synthetic soccer field	42,430	SF	6.50	275,795
02850/020	Sports lighting, allowance	3	EA	75,000.00	225,000
					500,795
02930	LANDSCAPING				
02930/010	Grasses/shrubs	4,329	EA	15.00	64,935
02930/020	Lawn	4,965	SY	6.00	29,790
02930/030	Trees	37	EA	550.00	20,350
02930/040	Tree grates	8	EA	1,400.00	11,200
					126,275
	SITWORK TOTAL				\$2,445,096