

Marlin E. Buckley, P.C.®
Building Experts

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SAMPLE

Marlin E. Buckley
Managing Principal

MEBPC Project No. : 049-01602

Client: Very Reputable General Contractor
Address:

Delivery: Hand Deliver
Bid Type: Stipulated Sum
Labor: Union

Phone:
Fax:

Estimator: MEB

BASELINE 2.0
Estimate for General Construction

Owner: Academic Institution

Phone:
Fax:

Project: New Facilities

Calculated Base Bid Total: \$17,494,401

Final Base Bid: \$17,450,000

Bid Documents:

Plans, Specs, Addenda 1 through 4
Addendum #5

Total Square Footage: 91,100
Cost Per Square Foot: \$192



I have made a careful review of the attached estimate and hereby authorize release of the bid.

Very Reputable General Contractor

Date: _____

*Technical Support Services for Contractors, Owners, Attorneys,
Architects, and other Construction Professionals*

Base Bid Summary

CSI Trade Division

General Requirements	\$502,150
Site Work	\$1,844,280
Concrete	\$1,199,410
Masonry	\$522,989
Metals	\$933,478
Wood & Plastics	\$259,333
Moisture & Thermal Control	\$409,098
Doors, Windows, & Glazing	\$557,124
Finishes	\$1,735,660
Specialties	\$140,293
Equipment	\$49,349
Furnishings	\$0
Special Construction	\$1,724,369
Conveying Systems	\$50,000
Mechanical	\$3,337,567
Electrical	\$2,773,039

TOTAL DIRECT COSTS: \$16,038,138

GC FEE: \$1,283,051

TOTAL BASE ESTIMATE: \$17,321,189

BUILDER'S CONTINGENCY: \$0

subtotal: \$17,321,189

Performance & Payment Bonds: \$173,212

CALCULATED GRAND TOTAL : \$17,494,401

Detailed Estimate

CSI	DESCRIPTION	QTY	UNIT MEAS	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE	TOTAL BY CATEGORY
2201	EXCAVATION							\$1,403,308
	Subcontract	1	bid					
	Bidders:							
	Quantity Survey:							
	Survey and Layout	1	LS	25,000.00	\$25,000		\$25,000	
	As-Built Drawings	1	LS	10,000.00	\$10,000		\$10,000	
	Erosion and Sediment Control:							
	Silt Fence	1200	LF	1.55	\$1,860		\$1,860	
	Inlet Protection	12	EA	310.00	\$3,720		\$3,720	
	Construction Entrance	2	EA					
	Stone	100	TN	23.25	\$2,325		\$2,325	
	Fabric	300	SY	1.55	\$465		\$465	
	Backhoe with Operating Engineer	5	DAY	1000	\$5,000		\$5,000	
	Medium Dozer with Operating Engineer	1	DAY	1200	\$1,200		\$1,200	
	Laborer	96	HRS	65.00	\$6,240		\$6,240	
	Foreman	48	HRS	75.00	\$3,600		\$3,600	
	Demolition:							
	Relocate Traffic Signs	2	EA					
	Transplant Trees	9	EA					
	Tree Protection Fence	1800	LF	3.10	\$5,580		\$5,580	
	Backhoe with Operating Engineer	9	DAY	1,000.00	\$9,000		\$9,000	
	Laborer	144	HRS	65.00	\$9,360		\$9,360	
	Foreman	72	HRS	75.00	\$5,400		\$5,400	
	Remove Asphalt	1200	SY					
	Excavator with Operating Engineer	1	DAY	1,500.00	\$1,500		\$1,500	
	Dumptruck with Driver	3	DAY	650.00	\$1,950		\$1,950	
	Laborer	8	HRS	65.00	\$520		\$520	
	Foreman	8	HRS	75.00	\$600		\$600	
	Dumping Fees	15	LDS	100.00	\$1,500		\$1,500	
	Remove Fence Foundations	46	EA					
	Excavator with Operating Engineer	1	DAY	1,500.00	\$1,500		\$1,500	
	Dumptruck with Driver	1	DAY	650.00	\$650		\$650	
	Laborer	8	HRS	65.00	\$520		\$520	
	Foreman	8	HRS	75.00	\$600		\$600	
	Dumping Fees	2	LDS	100.00	\$200		\$200	
	Earthwork:							
	Stip Topsoil and Stock for Re-spread	1453	CY					
	Medium Dozer with Operating Engineer	2	DAY	1,200.00	\$2,400		\$2,400	
	Medium Loader with Operating Engineer	2	DAY	1,200.00	\$2,400		\$2,400	
	Dumptruck with Driver	6	DAY	650.00	\$3,900		\$3,900	
	Laborer	16	HRS	65.00	\$1,040		\$1,040	
	Foreman	16	HRS	75.00	\$1,200		\$1,200	

Detailed Estimate

CSI	DESCRIPTION	QTY	UNIT MEAS	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE	TOTAL BY CATEGORY
	Stip and Haul Excess Topsoil Off Site	3377	CY					
	Medium Dozer with Operating Engineer	5	DAY	1,200.00	\$6,000		\$6,000	
	Medium Loader with Operating Engineer	5	DAY	1,200.00	\$6,000		\$6,000	
	Dumptruck with Driver	52	DAY	600.00	\$31,200		\$31,200	
	Laborer	40	HRS	65.00	\$2,600		\$2,600	
	Foreman	40	HRS	75.00	\$3,000		\$3,000	
	Dumping Fees	260	LDS	100.00	\$26,000		\$26,000	
	Basin Excavation	1500	CY					
	Excavator w/Operator	3	DAY	1,500.00	\$4,500		\$4,500	
	Dumptruck with Driver	23	DAY	600.00	\$13,800		\$13,800	
	Laborer	24	HRS	65.00	\$1,560		\$1,560	
	Foreman	24	HRS	75.00	\$1,800		\$1,800	
	Dumping Fees	115	LDS	100.00	\$11,500		\$11,500	
	Site Cut to Fill	8737	CY					
	Excavator with Operating Engineer	8	DAY	1,500.00	\$12,000		\$12,000	
	Dumptruck with Driver	45	DAY	650.00	\$29,250		\$29,250	
	Medium Dozer with Operating Engineer	8	DAY	1,200.00	\$9,600		\$9,600	
	Compactor with Operating Engineer	8	DAY	900.00	\$7,200		\$7,200	
	Laborer	64	HRS	65.00	\$4,160		\$4,160	
	Foreman	64	HRS	75.00	\$4,800		\$4,800	
	Site Cut to Dispose Off Site	3283	CY					
	Excavator with Operating Engineer	5	DAY	1,500.00	\$7,500		\$7,500	
	Dumptruck with Driver	50	DAY	650.00	\$32,500		\$32,500	
	Laborer	40	HRS	65.00	\$2,600		\$2,600	
	Foreman	40	HRS	75.00	\$3,000		\$3,000	
	Dumping Fees	252	LDS	100.00	\$25,200		\$25,200	
	Respread Topsoil:							
	Respread Topsoil from On Site Stockpile	1453	CY					
	Medium Loader with Operating Engineer	12	DAY	1,200.00	\$14,400		\$14,400	
	Medium Dozer with Operating Engineer	12	DAY	1,200.00	\$14,400		\$14,400	
	Backhoe with Operating Engineer	12	DAY	1,000.00	\$12,000		\$12,000	
	Dumptruck with Driver	12	DAY	650.00	\$7,800		\$7,800	
	Laborer	288	HRS	65.00	\$18,720		\$18,720	
	Foreman	96	HRS	75.00	\$7,200		\$7,200	
	Site Utilities:							
	Sanitary Sewer							
	8" CIP SV	250	LF	29.45	\$7,363		\$7,363	
	Fittings	1	LS	1,000.00	\$1,000		\$1,000	
	Trap & FAI	1	EA	2,325.00	\$2,325		\$2,325	
	Stone Bedding	100	TON	23.25	\$2,325		\$2,325	
	Shoring	1	LS	2,000.00	\$2,000		\$2,000	
	Traffic Protection	1	LS	2,000.00	\$2,000		\$2,000	
	Excavator with Operating Engineer	5	DAY	1,500.00	\$7,500		\$7,500	
	Medium Loader with Operating Engineer	5	DAY	1,200.00	\$6,000		\$6,000	
	Dumptruck with Driver	5	DAY	650.00	\$3,250		\$3,250	
	Laborer	80	HRS	65.00	\$5,200		\$5,200	
	Plumber Labor	40	HRS	96.00	\$3,840		\$3,840	

Detailed Estimate

CSI	DESCRIPTION	QTY	UNIT MEAS	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE	TOTAL BY CATEGORY
	Storm Sewer							
	4" CIP	259	LF	10.85	\$2,810		\$2,810	
	8" CIP	226	LF	29.45	\$6,656		\$6,656	
	10" CIP	186	LF	48.05	\$8,937		\$8,937	
	12" CIP	419	LF	69.75	\$29,225		\$29,225	
	18" RCP	172	LF	23.25	\$3,999		\$3,999	
	21" RCP	128	LF	28.06	\$3,591		\$3,591	
	24" RCP	850	LF	31.00	\$26,350		\$26,350	
	CIP Fittings	1	LS	9,500.00	\$9,500		\$9,500	
	RCP Fittings	1	LS	3,500.00	\$3,500		\$3,500	
	Stone Bedding	900	TON	23.25	\$20,925		\$20,925	
	Trench Box	1	LS	2,000.00	\$2,000		\$2,000	
	Excavator with Operating Engineer	35	DAY	1,500.00	\$52,500		\$52,500	
	Medium Loader with Operating Engineer	35	DAY	1,200.00	\$42,000		\$42,000	
	Dumptruck with Driver	35	DAY	650.00	\$22,750		\$22,750	
	Laborer	560	HRS	65.00	\$36,400		\$36,400	
	Plumber Labor	280	HRS	96.00	\$26,880		\$26,880	
	Storm Structures							
	Inlets	9	EA	2,790.00	\$25,110		\$25,110	
	Manoles	6	EA	3,875.00	\$23,250		\$23,250	
	Endwalls	3	EA	1,550.00	\$4,650		\$4,650	
	Rip-Rap Aprons	60	TON	23.25	\$1,395		\$1,395	
	Excavator with Operating Engineer	18	DAY	1,500.00	\$27,000		\$27,000	
	Medium Loader with Operating Engineer	18	DAY	1,200.00	\$21,600		\$21,600	
	Dumptruck with Driver	18	DAY	650.00	\$11,700		\$11,700	
	Laborer	288	HRS	65.00	\$18,720		\$18,720	
	Plumber Labor	144	HRS	96.00	\$13,824		\$13,824	
	Water Service							
	4" DIP Domestic	585	LF	23.25	\$13,601		\$13,601	
	Fittings	1	LS	2,000.00	\$2,000		\$2,000	
	Concrete	3	CY	150.00	\$450		\$450	
	Stone Bedding	150	TON	23.25	\$3,488		\$3,488	
	Excavator with Operating Engineer	8	DAY	1,500.00	\$12,000		\$12,000	
	Medium Loader with Operating Engineer	8	DAY	1,200.00	\$9,600		\$9,600	
	Dumptruck with Driver	8	DAY	650.00	\$5,200		\$5,200	
	Laborer	128	HRS	65.00	\$8,320		\$8,320	
	Plumber Labor	64	HRS	96.00	\$6,144		\$6,144	
	Water Service							
	8" DIP Domestic	575	LF	38.75	\$22,281		\$22,281	
	Fittings	1	LS	2,500.00	\$2,500		\$2,500	
	Concrete	3	CY	150.00	\$450		\$450	
	Stone Bedding	150	TON	23.25	\$3,488		\$3,488	
	Excavator with Operating Engineer	8	DAY	1,500.00	\$12,000		\$12,000	
	Medium Loader with Operating Engineer	8	DAY	1,200.00	\$9,600		\$9,600	
	Dumptruck with Driver	8	DAY	650.00	\$5,200		\$5,200	
	Laborer	128	HRS	65.00	\$8,320		\$8,320	
	Plumber Labor	64	HRS	96.00	\$6,144		\$6,144	
	Allowance: Water Permits	1	LS	30,000.00	\$30,000		\$30,000	

Detailed Estimate

CSI	DESCRIPTION	QTY	UNIT MEAS	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE	TOTAL BY CATEGORY
	Allowance: Water Meter Pit	1	LS	15,000.00	\$15,000		\$15,000	
	Addendum #5:							
	Additional Fire Hydrant	1	EA	4,000.00	\$4,000		\$4,000	
	Additional 500 CY cut to haul	1	LS	11,000.00	\$11,000		\$11,000	
	Block Retaining Walls:							
	Retaining Wall Subcontractor	2600	SF	35.00	\$91,000		\$91,000	
	Excavator with Operating Engineer	5	DAY	1,500.00	\$7,500		\$7,500	
	Dumptruck with Driver	5	DAY	650.00	\$3,250		\$3,250	
	Laborer	40	HRS	65.00	\$2,600		\$2,600	
	Foreman	40	HRS	75.00	\$3,000		\$3,000	
	Site Concrete:							
	Concrete Curbs	4500	LF					
	Concrete	187	CY	150.00	\$28,050		\$28,050	
	Backhoe with Operating Engineer	15	DAY	1,000.00	\$15,000		\$15,000	
	Laborer	120	HRS	65.00	\$7,800		\$7,800	
	Foreman	120	HRS	75.00	\$9,000		\$9,000	
	Cement Finisher	240	HRS	75.00	\$18,000		\$18,000	
	Cement Finisher Foreman	120	HRS	85.00	\$10,200		\$10,200	
	Sidewalk	10965	SF					
	Concrete	147	CY	150.00	\$22,050		\$22,050	
	Stone	227	TON	23.25	\$5,278		\$5,278	
	Backhoe with Operating Engineer	10	DAY	1,000.00	\$10,000		\$10,000	
	Laborer	80	HRS	65.00	\$5,200		\$5,200	
	Foreman	80	HRS	75.00	\$6,000		\$6,000	
	Cement Finisher	160	HRS	75.00	\$12,000		\$12,000	
	Cement Finisher Foreman	80	HRS	85.00	\$6,800		\$6,800	
	Chain Link Fencing:							
	Subcontract	1 bid						
	Bidders:							
	Quantity Survey:							
	Fencing at site	480	LF	30.00	\$14,400		\$14,400	
	Double Gates	1	EA	1,200.00	\$1,200		\$1,200	
	Fencing at pads	310	LF	30.00	\$9,300		\$9,300	
	Single Gates with Panic Hardware	4	EA	1,200.00	\$4,800		\$4,800	
	Illuminated Site Signage:							
	Subcontract	1 bid						
	Bidders:							

Detailed Estimate

CSI	DESCRIPTION	QTY	UNIT MEAS	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE	TOTAL BY CATEGORY
	Plywood Forms	544	SF					
	Fiber Mesh	128	BG					
	Building Excavation:							
	Removal							
	Grade Beams	805.69	CY					
	Footings	292.36	CY					
	Finish Grade to Slab Sub-Grade	1,243.74	CY					
	Stairs & Walls	71.19	CY					
	Total Removal	2,412.98	CY					
	Backhoe with Operating Engineer	10	DAY	1,000.00	\$10,000		\$10,000	
	Excavator with Operating Engineer	10	DAY	1,500.00	\$15,000		\$15,000	
	Loader with Operating Engineer	10	DAY	1,500.00	\$15,000		\$15,000	
	Dumptruck with Driver	10	DAY	650.00	\$6,500		\$6,500	
	Laborer	160	HRS	65.00	\$10,400		\$10,400	
	Backfill							
	Grade Beams	506.65	CY					
	Footings	84.39	CY					
	Stairs & Walls	57.73	CY					
	Total Replacement	648.77	CY					
	Backhoe with Operating Engineer	10	DAY	1,000.00	\$10,000		\$10,000	
	Excavator with Operating Engineer	10	DAY	1,500.00	\$15,000		\$15,000	
	Loader with Operating Engineer	10	DAY	1,500.00	\$15,000		\$15,000	
	Dumptruck with Driver	10	DAY	650.00	\$6,500		\$6,500	
	Laborer	160	HRS	65.00	\$10,400		\$10,400	
	Spoil Export							
	Slab Grading - Excess Soils	1,243.74	CY					
	Loader with Operating Engineer	5	DAY	1,500.00	\$7,500		\$7,500	
	Dumptruck with Driver	20	DAY	650.00	\$13,000		\$13,000	
	Dumping Fees	95	EA	75.00	\$7,125		\$7,125	
	Stone Placement:							
	Stone (delivered)	1,745.00	TN	19.00	\$33,155		\$33,155	
	Loader with Operating Engineer	5	DAY	1,500.00	\$7,500		\$7,500	
	Carpentry Labor	40	HRS	81.00	\$3,240		\$3,240	
	Laborer	160	HRS	65.00	\$10,400		\$10,400	
4000	MASONRY							\$522,989
	Subcontract		1 bid					
	Bidders:							

Detailed Estimate

CSI	DESCRIPTION	QTY	UNIT MEAS	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE	TOTAL BY CATEGORY
	Quantity Survey:							
	Brick Facing							
A301	Elevation 1	391	SF	23.00	\$8,993		\$8,993	
	Elevation 4	2040	SF	23.00	\$46,920		\$46,920	
A302	Elevation 1	3420	SF	23.00	\$78,660		\$78,660	
A303	Elevation 1	4290	SF	23.00	\$98,670		\$98,670	
	Elevation 2	4290	SF	23.00	\$98,670		\$98,670	
	Plan Sections 4, 5, 6/ S101	342	SF	23.00	\$7,866		\$7,866	
	8" Ground Face CMU	2288	SF	25.00	\$57,200		\$57,200	
	12" Ground Face CMU							
	Plan Section 1/A506	167	SF	30.00	\$5,010		\$5,010	
	Plan Section 1/A507	474	SF	30.00	\$14,220		\$14,220	
4/S102	Split Face Block (Mechanical Enclosure)	500	SF	25.00	\$12,500		\$12,500	
	8" CMU							
	Plan Sections 4, 5, 6/ S101	456	SF	14.00	\$6,384		\$6,384	
	Plan Sections 4, 5, 6/ S101	192	SF	14.00	\$2,688		\$2,688	
	Plan Sections 1/ S101	153	SF	14.00	\$2,142		\$2,142	
	Plan Sections 1/ S101	192	SF	14.00	\$2,688		\$2,688	
	Plan Sections 1A/ S101	87	SF	14.00	\$1,218		\$1,218	
16/S501	Elevation Shaft	1280	SF	14.00	\$17,920		\$17,920	
4/S505	Boiler Room	910	SF	14.00	\$12,740		\$12,740	
4/S505	Boiler Room	3185	SF	14.00	\$44,590		\$44,590	
	12" CMU							
	Plan Section 2/S103	30	SF	17.00	\$510		\$510	
	Plan Section 4/S102	200	SF	17.00	\$3,400		\$3,400	
5000	METALS							\$933,478
	Subcontract	1 bid						
	Bidders:							
	Quantity Survey:							
	Structural Steel:							
	Columns	35.20	TN					
	Beams	83.11	TN					
	HSS Steel - (inc Plates & Gussets)	33.48	TN					
	Bar Joists	35.02	TN					
	Plates & Angles	18.48	TN					

Detailed Estimate

CSI	DESCRIPTION	QTY	UNIT	\$ PER	TOTAL	ADJUST	TOTAL ESTIMATE	TOTAL BY CATEGORY
		MEAS		UNIT				
	Total Structural Steel	205.29	TN	3,100.00	\$636,399		\$636,399	
	Metal Deck							
	9/16" x Corrugated Metal Deck	15,739	SF	2.25	\$35,413		\$35,413	
	1 1/2" x 20 GA Metal Deck	19,315	SF	2.50	\$48,288		\$48,288	
	2" x 18 GA Metal Deck	596	SF	2.75	\$1,639		\$1,639	
	Pre Stressed Concrete Plank	450	SF	30.00	\$13,500		\$13,500	
	Miscellaneous Metals:							
	Stair w/ Landing (including railings)	2	EA	30,000.00	\$60,000		\$60,000	
	Stair (to mezzanine, with rails)	2	EA	7,500.00	\$15,000		\$15,000	
	Stairs (main entry, with architectural railings)	1	EA	30,000.00	\$30,000		\$30,000	
	Ladder	1	EA	3,500.00	\$3,500		\$3,500	
	Loose Lintels	1.32	TN	2,000.00	\$2,640		\$2,640	
	Attachments (anchor bolts, etc.)	1,670.00	EA	50.00	\$83,500		\$83,500	
	Pipe Railings, double rail	40	LF	90.00	\$3,600		\$3,600	
6000	CARPENTRY							\$88,889
	Subcontract	1	bid					
	Bidders:							
	Quantity Survey:							
	Roof Wood Blocking							
18,19,								
20/A122	Perimeter Blocking 2X6 PT	2888	LF	1.24	\$3,581		\$3,581	
7/A121	Curb Blocking 2X6 PT	120	LF	1.24	\$149		\$149	
2/A121	Knee Wall Blocking 2X6 PT	112	LF	1.24	\$139		\$139	
	Knee Wall Blocking 2X10 PT	224	LF	2.01	\$450		\$450	
	Roof Hatch Blocking 2X6 PT	32	LF	1.24	\$40		\$40	
20/A122	Parapet Cap 1X10 PT	386	LF	1.20	\$463		\$463	
	Parapet Cap 2X4 PT	772	LF	0.77	\$594		\$594	
15,16/								
A122	Blocking 2X8 PT	222	LF	1.70	\$377		\$377	
	Blocking 2X6 PT	444	LF	1.24	\$551		\$551	
	Blocking 2X4 PT	444	LF	0.77	\$342		\$342	
10/A122	Blocking 2X6 PT	144	LF	1.24	\$179		\$179	
	Fasteners	1	LS	150.00	\$150		\$150	
	Carpentry Labor	92	HRS	81.00	\$7,452		\$7,452	
	Wood Blocking for Cabinetry							
	Base 2X4	161	LF	0.53	\$85		\$85	

Detailed Estimate

CSI	DESCRIPTION	QTY	UNIT MEAS	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE	TOTAL BY CATEGORY
	Wall 2X4	150	LF	0.53	\$80		\$80	
	P-Lam Shelving 2X4	114	LF	0.53	\$60		\$60	
	Fasteners	1	LS	21.00	\$21		\$21	
	Carpentry Labor	29	HRS	81.00	\$2,349		\$2,349	
	Wood Blocking							
A702 6,7/	Tops 2X4	246	LF	0.53	\$130		\$130	
A801	Framing 2X4	250	LF	0.53	\$133		\$133	
	Fasteners	1	LS	24.00	\$24		\$24	
	Carpentry Labor	10	HRS	81.00	\$810		\$810	
	Framing							
	Type 8 Walls 2X4	4496	LF	0.53	\$2,383		\$2,383	
	Type 9 Walls 2X4	512	LF	0.53	\$271		\$271	
2/A802	1" Plywood	964	SF	1.70	\$1,639		\$1,639	
	2X8	252	LF	1.08	\$272		\$272	
	2X10	434	LF	1.68	\$729		\$729	
	2X12	644	LF	2.48	\$1,597		\$1,597	
	4X4	376	LF	1.72	\$647		\$647	
	Joist Hangers	172	EA	2.53	\$435		\$435	
	Bridging 99 Pair	198	EA	1.89	\$374		\$374	
	Railing 2X4	1190	LF	0.53	\$631		\$631	
	Stair Flights	7	EA	500.00	\$3,500		\$3,500	
	Fasteners	1	LS	463.00	\$463		\$463	
	Carpentry Labor	120	HRS	81.00	\$9,720		\$9,720	
T112D	1" Plywood	560	SF	1.70	\$952		\$952	
	2X12	748	LF	2.48	\$1,855		\$1,855	
	4X4	104	LF	1.72	\$179		\$179	
	Joist Hangers	80	EA	2.53	\$202		\$202	
	Bridging 41 Pair	82	EA	1.89	\$155		\$155	
	Stair Flights	1	EA	500.00	\$500		\$500	
	Railing 2X4	468	LF	0.53	\$248		\$248	
	Fasteners	1	LS	75.00	\$75		\$75	
	Carpentry Labor	29	HRS	81.00	\$2,349		\$2,349	
A101	Blocking for LCD's							
Note 13	3/4" Plywood	134	SF	1.28	\$172		\$172	
	Carpentry Labor	25	HRS	81.00	\$2,025		\$2,025	
	Blocking for Toilet Compartments							
	2X4	212	LF	0.53	\$112		\$112	
	Blocking for Toilet Accessories							
	2X4	72	LF	0.53	\$38		\$38	
	Blocking for Marker Boards, Tack Boards, Tack Strips and Projection Screens							
	2X4	1527	LF	0.53	\$809		\$809	
	Carpentry Labor	102	HRS	81.00	\$8,262		\$8,262	
A908	Blocking at P1, P2, P3, L1 (Details 1, 2, 3, 4, 5)							
	2X12 PT	822	LF	2.60	\$2,137		\$2,137	
	2X8 PT	2938	LF	1.70	\$4,995		\$4,995	

Detailed Estimate

CSI	DESCRIPTION	QTY	UNIT MEAS	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE	TOTAL BY CATEGORY
	2X4 PT	3760	LF	0.77	\$2,895		\$2,895	
	Fasteners	1	LS	376.00	\$376		\$376	
	Carpentry Labor	140	HRS	81.00	\$11,340		\$11,340	
A908	Blocking W1, W2, W3, W4, W5 (Details 7, 8, 9)							
	1X6 PT	1524	LF	0.95	\$1,448		\$1,448	
	2X6 PT	1524	LF	1.24	\$1,890		\$1,890	
	Fasteners	1	LS	153.00	\$153		\$153	
	Carpentry Labor	48	HRS	81.00	\$3,888		\$3,888	
11/A908	Store Front Blocking							
	2X8 PT	142	LF	1.70	\$241		\$241	
	2X4 PT	142	LF	0.77	\$109		\$109	
	Fasteners	1	LS	15.00	\$15		\$15	
	Carpentry Labor	8	HRS	81.00	\$648		\$648	
6400	CABINETS, CASEWORK, CUSTOM MILLWORK							\$170,444
	Vendor, F & D w T	1	bid					
	Labor to install See Below		HRS	81.00				
	Bidders:							
	Quantity Survey:							
A701	Cabinet Types							
	1	9	EA	750.00	\$1,500		\$1,500	
	2	4	EA	750.00	\$2,250		\$2,250	
	3		EA					
	4	6	EA	625.00	\$3,125		\$3,125	
	5	36	EA	625.00	\$3,750		\$3,750	
	6	1	EA	625.00	\$4,375		\$4,375	
	7	1	EA	375.00	\$3,000		\$3,000	
	8	1	EA	313.00	\$2,817		\$2,817	
	9	1	EA	313.00	\$3,130		\$3,130	
	10	1	EA	313.00	\$3,443		\$3,443	
	11	4	EA	1,800.00	\$21,600		\$21,600	
	12	19	EA	500.00	\$6,500		\$6,500	
	13	2	EA	250.00	\$3,500		\$3,500	
	14	6	EA	500.00	\$7,500		\$7,500	
	15	1	EA	600.00	\$9,600		\$9,600	
	16	2	EA	900.00	\$1,800		\$1,800	
	P-Lam Tops	510	LF	50.00	\$25,500		\$25,500	
	P-Lam Shelving	57	LF	200.00	\$11,400		\$11,400	
	Carpenter Labor	133	HRS	81.00	\$10,773		\$10,773	
A702	Tops	313	SF	45.00	\$14,085		\$14,085	
3A/A702	6" Wood Cap at Rm T104	18	LF	1.75	\$32		\$32	

Detailed Estimate

CSI	DESCRIPTION	QTY	UNIT MEAS	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE	TOTAL BY CATEGORY
	Carpenter Labor	18	HRS	81.00	\$1,458		\$1,458	
A801	Reception Desk							
	Top	31	SF	45.00	\$1,395		\$1,395	
	File Cabinets	3	LF	250.00	\$750		\$750	
	Wall Behind Reception Desk							
	1/2" Oak Veneer	169	SF	3.63	\$613		\$613	
	1X4 Oak Furring	108	LF	1.10	\$119		\$119	
	Carpenter Labor	20	HRS	81.00	\$1,620		\$1,620	
A908	MDF Trim Board (Includes 7A & 7B/A907)							
	P1	938	SF	1.06	\$994		\$994	
	P2	2925	SF	1.06	\$3,101		\$3,101	
	P3	1305	SF	1.06	\$1,383		\$1,383	
	L1	585	SF	1.06	\$620		\$620	
	Carpentry Labor	231	HRS	81.00	\$18,711		\$18,711	
7200	INSULATION							\$71,095
	Subcontract	1 bid						
	Bidders:							
	Quantity Survey:							
	Insulation at Ground Face Block at Perimeter of Trades Building A503, A504, A505, A506							
	3 1/2 Fiberglass Batt	2288	SF	0.35	\$801		\$801	
	Carpentry Labor	12	HRS	81.00	\$972		\$972	
A905	Acoustic Deck	7992	SF	5.00	\$39,960		\$39,960	
	Carpentry Labor	140	HRS	81.00	\$11,340		\$11,340	
	6 Inch Fiberglass Insulation Wall Types							
	7A	11774	SF	0.72	\$8,477		\$8,477	
	7B	3132	SF	0.72	\$2,255		\$2,255	
	Carpentry Labor	90	HRS	81.00	\$7,290		\$7,290	
7300	ROOFING & SHEETMETAL							\$313,003
	Subcontract	1 bid						
	Bidders:							

Detailed Estimate

CSI	DESCRIPTION	QTY	UNIT MEAS	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE	TOTAL BY CATEGORY
	Quantity Survey:							
	EPDM Roofing	26163	SF	4.50	\$117,734		\$117,734	
	1/2" Fiber Board	26163	SF	1.50	\$39,245		\$39,245	
	3" Rigid Insulation	26163	SF	4.50	\$117,734		\$117,734	
	Sheet Metal							
20/A122	At Brick	386	LF	15.00	\$5,790		\$5,790	
	9 1/2" High Fascia	386	LF	15.00	\$5,790		\$5,790	
16/A122	Aluminum Fascia	111	LF	15.00	\$1,665		\$1,665	
	Soffit	611	SF	7.00	\$4,277		\$4,277	
15/A122	Aluminum Drip Edge	111	LF	10.00	\$1,110		\$1,110	
	Soffit	167	SF	7.00	\$1,169		\$1,169	
	Galvanized Gutter	111	LF	20.00	\$2,220		\$2,220	
18,19/ A122	Fascia	176	LF	15.00	\$2,640		\$2,640	
	Fascia at High Roof	160	LF	15.00	\$2,400		\$2,400	
	Metal Coping at Mechanical Enclosures	50	LF	25.00	\$1,250		\$1,250	
	Walk Pads	104	LF	25.00	\$2,600		\$2,600	
	Roof Hatch	1	EA	1,000.00	\$1,000		\$1,000	
A505	Resolite Translucent Roofing							
	T115	418	SF	10.00	\$4,180		\$4,180	
	T117F	220	SF	10.00	\$2,200		\$2,200	
7900	SEALANTS							\$25,000
	Subcontract	1	bid					
	Bidders:							
	Quantity Survey:							
	Caulking	1	LS	25,000.00	\$25,000		\$25,000	
8100	DOORS, FRAMES, & HARDWARE							\$180,910
	Vendor, F & D w T	1	bid					
	Labor to install	535	HRS	81.00	\$43,335		\$43,335	
	Bidders:							

Detailed Estimate

CSI	DESCRIPTION	QTY	UNIT MEAS	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE	TOTAL BY CATEGORY
	Quantity Survey:							
	Key Cabinets	1	EA	350.00	\$350		\$350	
	Door Slabs							
	Wood (Pre-Finished) Type 1	94	EA	250.00	\$23,500		\$23,500	
	Wood (Pre-Finished) Type 2	75	EA	250.00	\$18,750		\$18,750	
	HM Door Over-Sized	12	EA	225.00	\$2,700		\$2,700	
	HM Frames							
	Single Door	66	EA	150.00	\$9,900		\$9,900	
	Double Door	16	EA	175.00	\$2,800		\$2,800	
	Single w/ 2 Windows	11	EA	225.00	\$2,475		\$2,475	
	Single w/ 3 Windows	1	EA	250.00	\$250		\$250	
	Single w/ 1 Full Lite	55	EA	200.00	\$11,000		\$11,000	
	Single w/ 3 Full Lites	5	EA	400.00	\$2,000		\$2,000	
	Window Double	12	EA	150.00	\$1,800		\$1,800	
	2 Full Lites	2	EA	225.00	\$450		\$450	
	3 Full Lites	2	EA	300.00	\$600		\$600	
	4 Full Lites	2	EA	400.00	\$800		\$800	
	Hardware Sets	181	EA	200.00	\$36,200		\$36,200	
	OH Coiling Doors							
	OH Doors	4	EA	6,000.00	\$24,000		\$24,000	
	OH Coiling Grille NONE FOUND							
8400	WINDOWS & STOREFRONT							\$376,214
	Subcontract	1	bid					
	Bidders:							
	Quantity Survey:							
	L1 Louvers, windows P1, P2, and P3 are supplied by metal building manufacturer							
	Glass and Glazing							
	Door Glazing							
	Type B & C	344	SF	10.00	\$3,440		\$3,440	
	Type D	192	SF	10.00	\$1,920		\$1,920	
	Type E	14	SF	10.00	\$140		\$140	
	Type F	9	SF	10.00	\$90		\$90	
	HM Frame Glazing							

Detailed Estimate

CSI	DESCRIPTION	QTY	UNIT MEAS	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE	TOTAL BY CATEGORY
	Full Lite	1653	SF	10.00	\$16,530		\$16,530	
	Windows	539	SF	10.00	\$5,390		\$5,390	
	Windows							
	W1	17	EA	250.00	\$4,250		\$4,250	
	W2	12	EA	300.00	\$3,600		\$3,600	
	W3	19	EA	325.00	\$6,175		\$6,175	
	W4	14	EA	350.00	\$4,900		\$4,900	
	W5	3	EA	250.00	\$750		\$750	
	Carpenter Labor	124	HRS	81.00	\$10,044		\$10,044	
	Aluminum Store Front							
	A904	1400	SF	30.00	\$42,000		\$42,000	
	A904	557	SF	30.00	\$16,710		\$16,710	
	A904 Doors	3	EA	1,800.00	\$5,400		\$5,400	
	Aluminum Curtain Wall							
	C1/A906	4193	SF	35.00	\$146,755		\$146,755	
	C2/A906	976	SF	35.00	\$34,160		\$34,160	
	C3/A906	1109	SF	35.00	\$38,815		\$38,815	
	C4/A906	666	SF	35.00	\$23,310		\$23,310	
	C5/A906	81	SF	35.00	\$2,835		\$2,835	
	Doors	5	EA	1,800.00	\$9,000		\$9,000	
9250	DRYWALL & METAL STUDS							\$1,112,553
	Subcontract	1	bid					
	Bidders:							
	Quantity Survey:							
	GWB							
	Wall Type							
	1	82168	SF	0.65	\$53,409		\$53,409	
	1B	19082	SF	0.65	\$12,403		\$12,403	
	1C	5553	SF	0.65	\$3,609		\$3,609	
	1D	2786	SF	0.65	\$1,811		\$1,811	
	2	19344	SF	0.65	\$12,574		\$12,574	
	2B	49764	SF	0.65	\$32,347		\$32,347	
	2C	59725	SF	0.65	\$38,821		\$38,821	
	3	17342	SF	0.65	\$11,272		\$11,272	
	3A	5422	SF	0.65	\$3,524		\$3,524	
	3B	3712	SF	0.65	\$2,413		\$2,413	
	5A	1885	SF	0.65	\$1,225		\$1,225	
	7A	11774	SF	0.65	\$7,653		\$7,653	
	7B	3132	SF	0.65	\$2,036		\$2,036	
	10	4230	SF	0.65	\$2,750		\$2,750	
	11	570	SF	0.65	\$371		\$371	

Detailed Estimate

CSI	DESCRIPTION	QTY	UNIT MEAS	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE	TOTAL BY CATEGORY
	Carpentry Labor	1994	HRS	81.00	\$161,514		\$161,514	
	Finish Drywall Subcontractor	286489	SF	0.60	\$171,893		\$171,893	
	GPF							
	Wall Type							
	1B	9541	SF	1.40	\$13,357		\$13,357	
	2B	21744	SF	1.40	\$30,442		\$30,442	
	2C	12816	SF	1.40	\$17,942		\$17,942	
	Carpentry Labor	307	HRS	81.00	\$24,867		\$24,867	
	Metal Stud Framing							
	Hat Channel							
	Wall Type 5A	1885	LF	0.31	\$584		\$584	
	2 1/2 Stud							
	Wall Type 11	570	LF	0.55	\$314		\$314	
	3 5/8 Stud							
	Wall Type							
	1	41084	LF	0.65	\$26,705		\$26,705	
	1B	9541	LF	0.65	\$6,202		\$6,202	
	1C	5553	LF	0.65	\$3,609		\$3,609	
	1D	2786	LF	0.65	\$1,811		\$1,811	
	3	8671	LF	0.65	\$5,636		\$5,636	
	3B	3712	LF	0.65	\$2,413		\$2,413	
	7B	3132	LF	0.65	\$2,036		\$2,036	
	6" Stud							
	Wall Type							
	2	9692	LF	0.93	\$9,014		\$9,014	
	2B	24882	LF	0.93	\$23,140		\$23,140	
	2C	29725	LF	0.93	\$27,644		\$27,644	
	3A	2711	LF	0.93	\$2,521		\$2,521	
	7A	11774	LF	0.93	\$10,950		\$10,950	
	7B	3132	LF	0.93	\$2,913		\$2,913	
	8" Stud							
	Wall Type 10	2115	LF	1.10	\$2,327		\$2,327	
	Carpentry Labor	4415	HRS	81.00	\$357,615		\$357,615	
	Ceilings							
A102	GWB	210	SF	0.65	\$137		\$137	
	Hat Channel	210	LF	0.31	\$65		\$65	
A139	GWB	210	SF	0.65	\$137		\$137	
	Hat Channel	210	LF	0.31	\$65		\$65	
A202	GWB	210	SF	0.65	\$137		\$137	
	Chicago Grid	210	SF	1.25	\$263		\$263	
A225	GWB	210	SF	0.65	\$137		\$137	
	Chicago Grid	210	SF	1.25	\$263		\$263	
T102	GWB	77	SF	0.65	\$50		\$50	
	Chicago Grid	77	SF	1.25	\$96		\$96	
T107	GWB	2048	SF	0.65	\$1,331		\$1,331	
	Chicago Grid	2048	SF	1.25	\$2,560		\$2,560	
	Carpentry Labor	89	HRS	81.00	\$7,209		\$7,209	
	Finish Drywall Subcontractor	2965	SF	0.60	\$1,779		\$1,779	
7/A603	GWB	108	SF	0.65	\$70		\$70	

Detailed Estimate

CSI	DESCRIPTION	QTY	UNIT MEAS	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE	TOTAL BY CATEGORY
8/A603	GWB	204	SF	0.65	\$133		\$133	
9/A603	Stairs							
	GWB	448	SF	0.65	\$291		\$291	
1&2/ A702	GWB	34	SF	0.65	\$22		\$22	
3/A702	GWB	90	SF	0.65	\$59		\$59	
	Carpentry Labor	7	HRS	81.00	\$567		\$567	
	Finish Drywall Subcontractor	884	SF	0.60	\$530		\$530	
7/A603	Steel Studs	108	LF	0.65	\$70		\$70	
8/A603	Steel Studs	204	LF	0.65	\$133		\$133	
9/A603	Stairs							
	Steel Studs	262	LF	0.65	\$170		\$170	
1&2/ A702	Steel Studs	34	LF	0.65	\$22		\$22	
3/A702	Steel Studs	45	LF	0.65	\$29		\$29	
	Carpentry Labor	18	HRS	81.00	\$1,458		\$1,458	
	Addendum #5:							
Item 6	2x8 Metal Stud	352	LF	2.36	\$831		\$831	
	5/8 inch Plywood	352	SF	1.30	\$458		\$458	
	Fasteners	1	LS	35.00	\$35		\$35	
	Carpenter Labor	22	HRS	81.00	\$1,782		\$1,782	
9300	CERAMIC & QUARRY TILE							\$116,625
	Subcontract	1 bid						
	Bidders:							
	Quantity Survey:							
	Ceramic Tile							
	Rooms							
	T111 Floor	160	SF	12.00	\$1,920		\$1,920	
	T111 Wall	208	SF	12.00	\$2,496		\$2,496	
	T113 Floor	160	SF	12.00	\$1,920		\$1,920	
	T113 Wall	208	SF	12.00	\$2,496		\$2,496	
	T143 Floor	182	SF	12.00	\$2,184		\$2,184	
	T143 Wall	288	SF	12.00	\$3,456		\$3,456	
	T147 Floor	182	SF	12.00	\$2,184		\$2,184	
	T147 Wall	288	SF	12.00	\$3,456		\$3,456	
	A104 Floor	54	SF	12.00	\$648		\$648	
	A104 Wall	120	SF	12.00	\$1,440		\$1,440	
	A106 Floor	54	SF	12.00	\$648		\$648	
	A106 Wall	120	SF	12.00	\$1,440		\$1,440	
	A127 Floor	192	SF	12.00	\$2,304		\$2,304	
	A127 Wall	272	SF	12.00	\$3,264		\$3,264	
	A131 Floor	192	SF	12.00	\$2,304		\$2,304	

Detailed Estimate

CSI	DESCRIPTION	QTY	UNIT MEAS	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE	TOTAL BY CATEGORY
	A131 Wall	272	SF	12.00	\$3,264		\$3,264	
	A206 Floor	54	SF	12.00	\$648		\$648	
	A206 Wall	120	SF	12.00	\$1,440		\$1,440	
	A208 Floor	54	SF	12.00	\$648		\$648	
	A208 Wall	120	SF	12.00	\$1,440		\$1,440	
	A229 Floor	252	SF	12.00	\$3,024		\$3,024	
	A229 Wall	328	SF	12.00	\$3,936		\$3,936	
	A233 Floor	252	SF	12.00	\$3,024		\$3,024	
	A233 Wall	328	SF	12.00	\$3,936		\$3,936	
	Quarry Tile							
	A100 Floor	2880	SF	15.00	\$43,200		\$43,200	
	A100 Base	172	LF	15.00	\$2,580		\$2,580	
	A154 Floor	403	SF	15.00	\$6,045		\$6,045	
	A154 Base	66	LF	15.00	\$990		\$990	
	Slate Window Stools							
	Window W1	51	LF	35.00	\$1,785		\$1,785	
	Window W2	36	LF	35.00	\$1,260		\$1,260	
	Window W3	114	LF	35.00	\$3,990		\$3,990	
	Window W4	84	LF	35.00	\$2,940		\$2,940	
	Window W5	9	LF	35.00	\$315		\$315	
9500	ACOUSTICAL CEILINGS							\$125,559
	Subcontract		1 bid					
	Bidders:							
	Quantity Survey:							
	Rooms							
	T101	745	SF	3.00	\$2,235		\$2,235	
	T104	840	SF	3.00	\$2,520		\$2,520	
	T105	1075	SF	3.00	\$3,225		\$3,225	
	T109B	108	SF	3.00	\$324		\$324	
	T111	160	SF	3.00	\$480		\$480	
	T113	160	SF	3.00	\$480		\$480	
	T115B	108	SF	3.00	\$324		\$324	
	T116B	108	SF	3.00	\$324		\$324	
	T117B	90	SF	3.00	\$270		\$270	
	T119B	108	SF	3.00	\$324		\$324	
	T120B	108	SF	3.00	\$324		\$324	
	T122B	108	SF	3.00	\$324		\$324	
	T123B	108	SF	3.00	\$324		\$324	
	T126B	108	SF	3.00	\$324		\$324	
	T127	798	SF	3.00	\$2,394		\$2,394	
	T128B	108	SF	3.00	\$324		\$324	
	T130A	300	SF	3.00	\$900		\$900	

Detailed Estimate

CSI	DESCRIPTION	QTY	UNIT MEAS	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE	TOTAL BY CATEGORY
	T130B	165	SF	3.00	\$495		\$495	
	T131B	108	SF	3.00	\$324		\$324	
	T132A	126	SF	3.00	\$378		\$378	
	T132B	198	SF	3.00	\$594		\$594	
	T132C	154	SF	3.00	\$462		\$462	
	T133B	108	SF	3.00	\$324		\$324	
	T134	240	SF	3.00	\$720		\$720	
	T136	132	SF	3.00	\$396		\$396	
	T137	81	SF	3.00	\$243		\$243	
	T138	132	SF	3.00	\$396		\$396	
	T139	117	SF	3.00	\$351		\$351	
	T141	630	SF	3.00	\$1,890		\$1,890	
	T143	182	SF	3.00	\$546		\$546	
	T147	182	SF	3.00	\$546		\$546	
	T149	1886	SF	3.00	\$5,658		\$5,658	
	T157	570	SF	3.00	\$1,710		\$1,710	
	T158	396	SF	3.00	\$1,188		\$1,188	
	T159	280	SF	3.00	\$840		\$840	
	Admin 1st Fl	15513	SF	3.00	\$46,539		\$46,539	
	Admin 2nd Fl	15513	SF	3.00	\$46,539		\$46,539	
9600	FLOORING							\$148,476
	Subcontract		1 bid					
	Bidders:							
	Quantity Survey:							
	VCT							
	Rooms							
	T101	745	SF	2.50	\$1,863		\$1,863	
	T104	840	SF	2.50	\$2,100		\$2,100	
	T105	1075	SF	2.50	\$2,688		\$2,688	
	T109B	108	SF	2.50	\$270		\$270	
	T115B	108	SF	2.50	\$270		\$270	
	T116B	108	SF	2.50	\$270		\$270	
	T117B	90	SF	2.50	\$225		\$225	
	T119B	108	SF	2.50	\$270		\$270	
	T120B	108	SF	2.50	\$270		\$270	
	T122B	108	SF	2.50	\$270		\$270	
	T123B	108	SF	2.50	\$270		\$270	
	T126B	108	SF	2.50	\$270		\$270	
	T127B	798	SF	2.50	\$1,995		\$1,995	
	T128B	108	SF	2.50	\$270		\$270	
	T130A	300	SF	2.50	\$750		\$750	
	T130B	165	SF	2.50	\$413		\$413	
	T131B	108	SF	2.50	\$270		\$270	
	T132A	126	SF	2.50	\$315		\$315	

Detailed Estimate

CSI	DESCRIPTION	QTY	UNIT	\$ PER	TOTAL	ADJUST	TOTAL	TOTAL BY
			MEAS	UNIT			ESTIMATE	CATEGORY
	T132B	198	SF	2.50	\$495		\$495	
	T132C	154	SF	2.50	\$385		\$385	
	T133B	108	SF	2.50	\$270		\$270	
	T134	240	SF	2.50	\$600		\$600	
	T136	132	SF	2.50	\$330		\$330	
	T137	81	SF	2.50	\$203		\$203	
	T138	132	SF	2.50	\$330		\$330	
	T139	117	SF	2.50	\$293		\$293	
	T141	630	SF	2.50	\$1,575		\$1,575	
	T149	1886	SF	2.50	\$4,715		\$4,715	
	T157	570	SF	2.50	\$1,425		\$1,425	
	T158	396	SF	2.50	\$990		\$990	
	T159	280	SF	2.50	\$700		\$700	
	A101	35	SF	2.50	\$88		\$88	
	A116	143	SF	2.50	\$358		\$358	
	A118	88	SF	2.50	\$220		\$220	
	A119	959	SF	2.50	\$2,398		\$2,398	
	A125	25	SF	2.50	\$63		\$63	
	A129	35	SF	2.50	\$88		\$88	
	A135	25	SF	2.50	\$63		\$63	
	A141A	285	SF	2.50	\$713		\$713	
	A141B	231	SF	2.50	\$578		\$578	
	A200	450	SF	2.50	\$1,125		\$1,125	
	A204	72	SF	2.50	\$180		\$180	
	A221	130	SF	2.50	\$325		\$325	
	A227	999	SF	2.50	\$2,498		\$2,498	
	A231	40	SF	2.50	\$100		\$100	
A102	Rubber Floor	90	SF	30.00	\$2,700		\$2,700	
	Rubber Treads	24	EA	50.00	\$1,200		\$1,200	
A225	Rubber Floor	90	SF	30.00	\$2,700		\$2,700	
	Rubber Treads	24	EA	50.00	\$1,200		\$1,200	
A100	Rubber Floor	36	SF	30.00	\$1,080		\$1,080	
	Rubber Treads	24	EA	50.00	\$1,200		\$1,200	
	Carpet							
	Administrative 1st Floor	1426	SY	25.00	\$35,650		\$35,650	
	Administrative 2nd Floor	1523	SY	25.00	\$38,075		\$38,075	
	Vinyl Base							
	Wall Type							
	1	5210	LF	2.25	\$11,723		\$11,723	
	1B	658	LF	2.25	\$1,481		\$1,481	
	1C	961	LF	2.25	\$2,162		\$2,162	
	1D	198	LF	2.25	\$446		\$446	
	2	958	LF	2.25	\$2,156		\$2,156	
	2B	1716	LF	2.25	\$3,861		\$3,861	
	2C	2050	LF	2.25	\$4,613		\$4,613	
	3	380	LF	2.25	\$855		\$855	
	3A	90	LF	2.25	\$203		\$203	
	3B	50	LF	2.25	\$113		\$113	
	5	330	LF	2.25	\$743		\$743	
	5A	130	LF	2.25	\$293		\$293	

Detailed Estimate

CSI	DESCRIPTION	QTY	UNIT MEAS	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE	TOTAL BY CATEGORY
	7A	406	LF	2.25	\$914		\$914	
	7B	108	LF	2.25	\$243		\$243	
	8							
	9							
	10	282	LF	2.25	\$635		\$635	
	11	38	LF	2.25	\$86		\$86	
9900	PAINT							\$232,447
	Subcontract	1 bid						
	Bidders:							
	Quantity Survey:							
	Boiler Room CMU Walls	2505	SF	0.65	\$1,628		\$1,628	
3A/A702	6" Wood Cap	18	LF	1.00	\$18		\$18	
	HM Door Over-Sized	12	EA	50.00	\$600		\$600	
	HM Door Regular	7	EA	40.00	\$280		\$280	
	HM Frames							
	Single Door	72	EA	40.00	\$2,880		\$2,880	
	Double Door	17	EA	50.00	\$850		\$850	
	Single w/ 2 Windows	11	EA	60.00	\$660		\$660	
	Single w/ 3 Windows	1	EA	70.00	\$70		\$70	
	Single w/ 1 Full Lite	55	EA	55.00	\$3,025		\$3,025	
	Single w/ 3 Full Lites	5	EA	85.00	\$425		\$425	
	Window Double	12	EA	50.00	\$600		\$600	
	2 Full Lites	2	EA	60.00	\$120		\$120	
	3 Full Lites	2	EA	75.00	\$150		\$150	
	4 Full Lites	2	EA	85.00	\$170		\$170	
	Seal Concrete Floors	40245	SF	1.00	\$40,245		\$40,245	
	Wall Type							
	1	82168	SF	0.60	\$49,301		\$49,301	
	1B	19082	SF	0.60	\$11,449		\$11,449	
	1C	5553	SF	0.60	\$3,332		\$3,332	
	1D	2786	SF	0.60	\$1,672		\$1,672	
	2	19344	SF	0.60	\$11,606		\$11,606	
	2B	49764	SF	0.60	\$29,858		\$29,858	
	2C	59725	SF	0.60	\$35,835		\$35,835	
	3	17342	SF	0.60	\$10,405		\$10,405	
	3A	5422	SF	0.60	\$3,253		\$3,253	
	3B	3712	SF	0.60	\$2,227		\$2,227	
	5A	1885	SF	0.60	\$1,131		\$1,131	
	7A	11774	SF	0.60	\$7,064		\$7,064	

Detailed Estimate

CSI	DESCRIPTION	QTY	UNIT MEAS	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE	TOTAL BY CATEGORY
	7B	3132	SF	0.60	\$1,879		\$1,879	
	10	4230	SF	0.60	\$2,538		\$2,538	
	11	570	SF	0.60	\$342		\$342	
	Ceiling	2965	SF	0.60	\$1,779		\$1,779	
7/A603	GWB	108	SF	0.60	\$65		\$65	
8/A603	GWB	204	SF	0.60	\$122		\$122	
9/A603	Stairs							
	GWB	448	SF	0.60	\$269		\$269	
1&2/								
A702	GWB	34	SF	0.60	\$20		\$20	
3/A702	GWB	90	SF	0.60	\$54		\$54	
A905	Steel Frame - 8" Wide	513	SF	1.50	\$770		\$770	
A908	MDF Board							
	P1	938	SF	1.00	\$938		\$938	
	P2	2925	SF	1.00	\$2,925		\$2,925	
	P3	1305	SF	1.00	\$1,305		\$1,305	
	L1	585	SF	1.00	\$585		\$585	
10000 SPECIALTIES								
	Toilet Partitions							\$140,293
	Vendor, F & D w T							
	Labor to install	75	HRS	81.00	\$6,075		\$6,075	
	Bidders:							
	Quantity Survey:							
	Toilet Compartments (HD Solid Polyethylene)							
A127	Stall	3	EA	1,500.00	\$4,500		\$4,500	
A131	Urinal	1	EA	300.00	\$300		\$300	
	Stall	2	EA	1,500.00	\$3,000		\$3,000	
A229	Stall	5	EA	1,500.00	\$7,500		\$7,500	
A233	Urinal	2	EA	300.00	\$600		\$600	
	Stall	3	EA	1,500.00	\$4,500		\$4,500	
T111	Urinal	1	EA	300.00	\$300		\$300	
	Stall	2	EA	1,500.00	\$3,000		\$3,000	
T113	Stall	3	EA	1,500.00	\$4,500		\$4,500	
T143	Urinal	1	EA	300.00	\$300		\$300	
	Stall	2	EA	1,500.00	\$3,000		\$3,000	
T147	Stall	4	EA	1,500.00	\$6,000		\$6,000	
	Toilet Accessories							
	Vendor, F & D w T							
		1	bid					

Detailed Estimate

CSI	DESCRIPTION	QTY	UNIT MEAS	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE	TOTAL BY CATEGORY
	Job Search	1	EA	25.00	\$25		\$25	
	Receiving	2	EA	15.00	\$30		\$30	
	Lecture	3	EA	25.00	\$75		\$75	
	Elevator Machine Room	1	EA	15.00	\$15		\$15	
	Admission	2	EA	15.00	\$30		\$30	
	Restroom	4	EA	15.00	\$60		\$60	
	Conference	2	EA	15.00	\$30		\$30	
	Staff Lounge	2	EA	15.00	\$30		\$30	
	Large Group Room	2	EA	15.00	\$30		\$30	
	Classroom XXX	11	EA	25.00	\$275		\$275	
	Faculty Offices	1	EA	15.00	\$15		\$15	
	Conference	1	EA	15.00	\$15		\$15	
	Student Store	1	EA	15.00	\$15		\$15	
	Testing	2	EA	15.00	\$30		\$30	
	Copy/Mail	1	EA	15.00	\$15		\$15	
	Student Services	1	EA	15.00	\$15		\$15	
	Financial Assistance	1	EA	15.00	\$15		\$15	
	Office	18	EA	25.00	\$450		\$450	
	Storage	5	EA	15.00	\$75		\$75	
	Server	1	EA	15.00	\$15		\$15	
	Addendum #1 Building Lettering 12" High	25	EA	50.00	\$1,250		\$1,250	
11000	EQUIPMENT							\$49,349
	Roof Scuttle							
	Vendor, F & D w T	1	bid					
	Labor to install		HRS	81.00				
	Bidders:							
	Quantity Survey:							
	In Roofing							
	Microwave Shelves							
	Vendor, F & D w T	1	bid					
	Labor to install		HRS	81.00				
	Bidders:							
	Quantity Survey:							
	In Cabinetry							
	Recessed Display Case							
	Vendor, F & D w T	1	bid					
	Labor to install	8	HRS	81.00	\$648		\$648	
	Bidders:							

Detailed Estimate

CSI	DESCRIPTION	QTY	UNIT MEAS	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE	TOTAL BY CATEGORY
	Quantity Survey:							
A104	Recessed Display Case	1	EA	2,500.00	\$2,500		\$2,500	
	Metal Mail Organizer							
	Vendor, F & D w T		1 bid					
	Labor to install	4	HRS	81.00	\$324		\$324	
	Bidders:							
	Quantity Survey:							
A107	Metal Mail Organizer	1	EA	500.00	\$500		\$500	
	Metal Lockers							
	Vendor, F & D w T		1 bid					
	Labor to install	139	HRS	81.00	\$11,259		\$11,259	
	Bidders:							
	Quantity Survey:							
A103	New Metal Lockers	139	EA	200.00	\$27,800		\$27,800	
	Relocate Existing Metal Lockers							
	Vendor, F & D w T		1 bid					
	Labor to install	78	HRS	81.00	\$6,318		\$6,318	
	Bidders:							
	Quantity Survey:							
A104	Relocate Existing Metal Lockers	78	EA					

Detailed Estimate

CSI	DESCRIPTION	QTY	UNIT MEAS	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE	TOTAL BY CATEGORY
12000	Plastic Laminate Casework							
	Subcontract	1	bid					
	Bidders:							
	Quantity Survey:							
	In Cabinetry							
13000	Manufactured Metal Building							\$1,724,369
	Subcontract	1	bid					
	Bidders:							
	Quantity Survey:							
	Base Metal Building	44564	SF	18.48	\$823,543		\$823,543	
	Door Openings Framing	6	EA	504.00	\$3,024		\$3,024	
	Window Openings Framing	61	EA	511.00	\$31,171		\$31,171	
	OH Door Size Opening Framing	25	EA	1,029.00	\$25,725		\$25,725	
	L1 Louver	13	EA	1,500.00	\$19,500		\$19,500	
	P1 Window	25	EA	250.00	\$6,250		\$6,250	
	P2 Window	65	EA	300.00	\$19,500		\$19,500	
	P3 Window	29	EA	300.00	\$8,700		\$8,700	
	HM Door	7	EA	150.00	\$1,050		\$1,050	
	Single HM Frame	5	EA	150.00	\$750		\$750	
	Double HM Frame	1	EA	175.00	\$175		\$175	
	Hardware	7	EA	200.00	\$1,400		\$1,400	
	Roof	45496	SF	8.26	\$375,797		\$375,797	
	Siding	23150	SF	5.97	\$138,206		\$138,206	
	Insulation							
	R-20	23150	SF	2.52	\$58,338		\$58,338	
	R-30	45496	SF	3.78	\$171,975		\$171,975	
	Gutter & Spouting							
	Gutter	718	SF	12.25	\$8,796		\$8,796	
	Spouting	456	SF	12.25	\$5,586		\$5,586	
	Mezzanines							
	T125	836	SF	18.48	\$15,449		\$15,449	
	T125 Stairs	1	EA	2,500.00	\$2,500		\$2,500	

Detailed Estimate

CSI	DESCRIPTION	QTY	UNIT MEAS	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE	TOTAL BY CATEGORY
	T129	240	SF	18.48	\$4,435		\$4,435	
	T129 Stairs	1	EA	2,500.00	\$2,500		\$2,500	
14000	ELEVATORS							\$50,000
	Subcontract		1 bid					
	Bidders:							
	Quantity Survey:							
	Elevator	2	ST	25,000.00	\$50,000		\$50,000	
15300	FIRE SPRINKLERS							\$194,200
	Subcontract		1 bid					
	Bidders:							
	Quantity Survey:							
	Control Valve Assemblies	2	EA	6,000.00	\$12,000		\$12,000	
	Sprinkler Piping	91100	SF	2.00	\$182,200		\$182,200	
	Service is included under site utilities							
15400	PLUMBING							\$665,053
	Subcontract		1 bid					
	Bidders:							
	Quantity Survey:							
	Roof Drains:							
	6 inch Roof Drain	2	EA	953.00	\$1,906		\$1,906	
	4 inch Roof Drain	4	EA	612.00	\$2,448		\$2,448	
	8 inch Cast Iron Pipe with Fittings	160	LF	36.00	\$5,760		\$5,760	
	6 inch Cast Iron Pipe with Fittings	100	LF	23.00	\$2,300		\$2,300	
	8 inch Fiberglass Insulation	40	LF	50.00	\$2,000		\$2,000	
	6 inch Fiberglass Insulation	80	LF	43.00	\$3,440		\$3,440	

Detailed Estimate

CSI	DESCRIPTION	QTY	UNIT	\$ PER	TOTAL	ADJUST	TOTAL	TOTAL BY
			MEAS	UNIT			ESTIMATE	CATEGORY
	Plumber Labor	60	HRS	96.00	\$5,760		\$5,760	
	Fixtures:							
	Water Closet	56	EA	616.00	\$34,496		\$34,496	
	Water Closet Handicapped	24	EA	665.00	\$15,960		\$15,960	
	Lavatory	44	EA	140.00	\$6,160		\$6,160	
	Lavatory Handicapped	24	EA	504.00	\$12,096		\$12,096	
	Urinal	12	EA	727.00	\$8,724		\$8,724	
	Urinal Handicapped	7	EA	727.00	\$5,089		\$5,089	
	Mop Sink	7	EA	552.00	\$3,864		\$3,864	
	Floor Drain Type A	5	EA	173.00	\$865		\$865	
	Floor Drain Type B	15	EA	173.00	\$2,595		\$2,595	
	Wall sink	23	EA	250.00	\$5,750		\$5,750	
	Electric Water Cooler	3	EA	550.00	\$1,650		\$1,650	
	Electric Water Cooler Handicapped (Hi/Lo)	7	EA	690.00	\$4,830		\$4,830	
	Plumber Labor (227 Fixtures 8Hrs ea)	1816	HRS	96.00	\$174,336		\$174,336	
	Drain,Waste & Vent Piping:							
	8 inch Cast Iron Pipe with Fittings	670	LF	36.00	\$24,120		\$24,120	
	6 inch Cast Iron Pipe with Fittings	330	LF	23.00	\$7,590		\$7,590	
	4 inch Cast Iron Pipe with Fittings	724	LF	13.00	\$9,412		\$9,412	
	3 inch Cast Iron Pipe with Fittings	787	LF	11.00	\$8,657		\$8,657	
	2 inch Cast Iron Pipe with Fittings	436	LF	10.00	\$4,360		\$4,360	
	1 1/4 inch Type DWV Copper with Fittings	640	LF	7.75	\$4,960		\$4,960	
	Plumber Labor	1065	HRS	96.00	\$102,240		\$102,240	
	Crushed Stone	50	TN	19.00	\$950		\$950	
	Backhoe with Operating Engineer	10	DAY	1,000.00	\$10,000		\$10,000	
	Dumptruck with Driver	10	DAY	650.00	\$6,500		\$6,500	
	Domestic Water Distribution:							
	2 1/2 inch Type "L" Copper Tubing with Fittings	25	LF	23.00	\$575		\$575	
	2 inch Type "L" Copper Tubing with Fittings	575	LF	17.00	\$9,775		\$9,775	
	1 1/2 inch Type "L" Copper Tubing with Fittings	90	LF	14.00	\$1,260		\$1,260	
	1 1/4 inch Type "L" Copper Tubing with Fittings	580	LF	13.00	\$7,540		\$7,540	
	1 inch Type "L" Copper Tubing with Fittings	365	LF	8.50	\$3,103		\$3,103	
	3/4 inch Type "L" Copper Tubing with Fittings	1207	LF	5.50	\$6,639		\$6,639	
	1/2 inch Type "L" Copper Tubing with Fittings	290	LF	4.50	\$1,305		\$1,305	
	Back Flow Preventer	1	EA	1,519.00	\$1,519		\$1,519	
	Pressure Reducing Valve	1	EA	542.00	\$542		\$542	
	Hot Water Heater Electric 71Gal	1	EA	6,471.00	\$6,471		\$6,471	
	Hot Water Pump	1	EA	1,500.00	\$1,500		\$1,500	
	Storage Tank 100Gal	1	EA	450.00	\$450		\$450	
	Plumber Labor	540	HRS	96.00	\$51,840		\$51,840	
	2 1/2 inch Fiberglass Insulation Subcontract	25	LF	17.50	\$438		\$438	
	2 inch Fiberglass Insulation Subcontract	575	LF	16.00	\$9,200		\$9,200	
	1 1/2 inch Fiberglass Insulation Subcontract	90	LF	14.00	\$1,260		\$1,260	
	1 1/4 inch Fiberglass Insulation Subcontract	580	LF	12.00	\$6,960		\$6,960	
	Gas Piping:							
	6 inch Schedule 40 Black Steel Pipe with Fittings	430	LF	52.00	\$22,360		\$22,360	
	4 inch Schedule 40 Black Steel Pipe with Fittings	125	LF	29.00	\$3,625		\$3,625	
	3 inch Schedule 40 Black Steel Pipe with Fittings	270	LF	21.00	\$5,670		\$5,670	
	2 1/2 inch Schedule 40 Black Steel Pipe with Fittings	50	LF	20.00	\$1,000		\$1,000	

Detailed Estimate

CSI	DESCRIPTION	QTY	UNIT MEAS	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE	TOTAL BY CATEGORY
	11/4 inch Schedule 40 Black Steel Pipe with Fittings	50	LF	7.00	\$350		\$350	
	Connections	6	EA	200.00	\$1,200		\$1,200	
	Plumber Labor	240	HRS	96.00	\$23,040		\$23,040	
	Compressed Air:							
	11/4 inch Schedule 40 Black Steel Pipe with Fittings	30	LF	7.00	\$210		\$210	
	1 inch Schedule 40 black Steel Pipe with Fittings	50	LF	6.00	\$300		\$300	
	Compressor	1	EA	2,500.00	\$2,500		\$2,500	
	Plumber Labor	32	HRS	96.00	\$3,072		\$3,072	
	Elevator Pit:							
	Sump Pump with controls	1	EA	2,500.00	\$2,500		\$2,500	
	Plumber Labor	8	HRS	96.00	\$768		\$768	
	Addendum #5:							
	Fuel Oil Tank, double wall	1	LS	500.00	\$500		\$500	
	Concrete pad for tank with weatherproof cover	1	LS	1,500.00	\$1,500		\$1,500	
	Fuel Oil Pump, 1/3 HP	1	EA	300.00	\$300		\$300	
	1/2 inch Schedule 40 Black Steep Pipe with Fittings	40	LF	5.50	\$220		\$220	
	1 inch Schedule 40 black Steel Pipe with Fittings	40	LF	7.50	\$300		\$300	
	Plumber Labor	24	HRS	96.00	\$2,304		\$2,304	
	Plumbing Permit	1	LS		\$4,140		\$4,140	
15500	HVAC							\$2,478,314
	Subcontract	1	bid					
	Bidders:							
	Quantity Survey:							
	Equipment:							
	Energy Recovery Unit 20HP	1	EA	27,590.00	\$27,590		\$27,590	
	Energy Recovery Unit 25HP	1	EA	33,635.00	\$33,635		\$33,635	
	Cooling Tower Tons 455	1	EA	62,620.00	\$62,620		\$62,620	
	Water Chiller Tons 450	1	EA	220,100.00	\$220,100		\$220,100	
	Exhaust Fan 3PH	2	EA	11,678.00	\$23,356		\$23,356	
	Exhaust Fan 1PH	13	EA	5,270.00	\$68,510		\$68,510	
	Supply Fan 3PH	1	EA	11,678.00	\$11,678		\$11,678	
	Supply Fan 1PH	2	EA	5,270.00	\$10,540		\$10,540	
	Condenser Water Pump 60HP	1	EA	41,385.00	\$41,385		\$41,385	
	Chiller Water Pump 40HP	1	EA	22,630.00	\$22,630		\$22,630	
	Hot Water Pump 25HP	1	EA	22,630.00	\$22,630		\$22,630	
	Cabinet Unit Heater	2	EA	2,480.00	\$4,960		\$4,960	
	Air Cooled Condensing Unit Tons 3	1	EA	4,500.00	\$4,500		\$4,500	
	Air Cooled Condensing Unit Tons 1.5	4	EA	3,500.00	\$14,000		\$14,000	
	Split System Air Conditioning Unit	5	EA	4,500.00	\$22,500		\$22,500	

Detailed Estimate

CSI	DESCRIPTION	QTY	UNIT MEAS	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE	TOTAL BY CATEGORY
	Unit Heater	6	EA	2,500.00	\$15,000		\$15,000	
	Gas Boiler (Ability to change to oil)	2	EA	104,625.00	\$209,250		\$209,250	
	Burner Gas/Oil	2	EA	10,540.00	\$21,080		\$21,080	
	Fin Tube Radiation 8FT	1	EA	415.00	\$415		\$415	
	Fin Tube Radiation 7FT	1	EA	363.00	\$363		\$363	
	Fin Tube Radiation 6.5FT	1	EA	338.00	\$338		\$338	
	Fin Tube Radiation 6FT	1	EA	311.00	\$311		\$311	
	Fin Tube Radiation 5.5FT	1	EA	286.00	\$286		\$286	
	Relief Air Vent	4	EA	1,309.00	\$5,236		\$5,236	
	Blower Coil Unit 2HP	1	EA	1,750.00	\$1,750		\$1,750	
	Blower Coil Unit 1.5HP	1	EA	1,500.00	\$1,500		\$1,500	
	Blower Coil Unit 1HP	2	EA	1,300.00	\$2,600		\$2,600	
	Blower Coil Unit 3/4HP	8	EA	1,250.00	\$10,000		\$10,000	
	Blower Coil Unit 1/2HP	39	EA	1,150.00	\$44,850		\$44,850	
	Air Handling Unit 7.5HP	3	EA	15,655.00	\$46,965		\$46,965	
	Air Handling Unit 5HP	10	EA	10,501.00	\$105,010		\$105,010	
	Air Handling Unit 3HP	5	EA	6,277.00	\$31,385		\$31,385	
	Air Handling Unit 2HP	1	EA	5,037.00	\$5,037		\$5,037	
	Flue Stack 20Dia	20	LF	166.00	\$3,320		\$3,320	
	Flue Stack 28Dia	40	LF	329.00	\$13,160		\$13,160	
	Expansion Tank Amtrol Model AX100V	1	EA	1,860.00	\$1,860		\$1,860	
	5 Gallon Chemical Tank ARC 5	2	EA	527.00	\$1,054		\$1,054	
	Air Separator Amtrol Model 6-AS-I	2	EA	450.00	\$900		\$900	
	Refrigerant Leak Detector Montor	1	EA	4,000.00	\$4,000		\$4,000	
	10 gallon No2 Fuel Oil Storage Tank	2	EA	1,500.00	\$3,000		\$3,000	
	Air Curtain 1/2HP 16KW	1	EA	7,905.00	\$7,905		\$7,905	
	T-stat	67	EA	125.00	\$8,375		\$8,375	
	Sheetmetal Worker Labor	1350	HRS	96.00	\$129,600		\$129,600	
	Steamfitter Labor	1350	HRS	96.00	\$129,600		\$129,600	
	Rigging and Hoisting	1	LS	5,000.00	\$5,000		\$5,000	
	Hydronic Piping:							
	8 inch Schedule 40 Black Steel Pipe with Fittings	500	LF	65.00	\$32,500		\$32,500	
	6 inch Schedule 40 Black Steel Pipe with Fittings	1320	LF	52.00	\$68,640		\$68,640	
	4 inch Schedule 40 Black Steel Pipe with Fittings	970	LF	29.00	\$28,130		\$28,130	
	3 inch Schedule 40 Black Steel Pipe with Fittings	375	LF	21.00	\$7,875		\$7,875	
	2 1/2 inch Schedule 40 Black Steel Pipe with Fittings	84	LF	20.00	\$1,680		\$1,680	
	2 inch Schedule 40 Black Steel Pipe with Fittings	3340	LF	18.00	\$60,120		\$60,120	
	1 1/2 inch Schedule 40 Black Steel Pipe with Fittings	1525	LF	10.00	\$15,250		\$15,250	
	1 1/4 inch Schedule 40 Black Steel Pipe with Fittings	2495	LF	7.00	\$17,465		\$17,465	
	1 inch Schedule 40 Black Steel Pipe with Fittings	1890	LF	6.00	\$11,340		\$11,340	
	3/4 inch Schedule 40 Black Steel Pipe with Fittings	1200	LF	4.50	\$5,400		\$5,400	
	Steamfitter Labor	1200	HRS	96.00	\$115,200		\$115,200	
	8 inch Fiberglass Insulation Subcontract	260	LF	50.00	\$13,000		\$13,000	
	6 inch Fiberglass Insulation Subcontract	1320	LF	43.00	\$56,760		\$56,760	
	4 inch Fiberglass Insulation Subcontract	970	LF	30.00	\$29,100		\$29,100	
	3 inch Fiberglass Insulation Subcontract	375	LF	28.00	\$10,500		\$10,500	
	2 1/2 inch Fiberglass Insulation Subcontract	84	LF	21.00	\$1,764		\$1,764	
	2 inch Fiberglass Insulation Subcontract	3340	LF	20.00	\$66,800		\$66,800	
	1 1/2 inch Fiberglass Insulation Subcontract	1525	LF	19.00	\$28,975		\$28,975	
	1 1/4 inch Fiberglass Insulation Subcontract	1890	LF	17.50	\$33,075		\$33,075	
	1 inch Fiberglass Insulation Subcontract	1200	LF	15.00	\$18,000		\$18,000	

Detailed Estimate

CSI	DESCRIPTION	QTY	UNIT MEAS	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE	TOTAL BY CATEGORY
	Air Distribution:							
	Sheetmetal, Fabricated and Delivered with Insulation	21312.5	LBS	5.50	\$117,219		\$117,219	
	GRD Damper Assemblies	54	EA	345.00	\$18,630		\$18,630	
	Spiral Metal Duct 30 inches Dia	50	LF	48.00	\$2,400		\$2,400	
	Spiral Metal Duct 26 inches Dia	150	LF	24.00	\$3,600		\$3,600	
	Spiral Metal Duct 20 inches Dia	30	LF	18.00	\$540		\$540	
	Spiral Metal Duct 18 inches Dia	70	LF	14.50	\$1,015		\$1,015	
	Spiral Metal Duct 16 inches Dia	230	LF	12.00	\$2,760		\$2,760	
	Spiral Metal Duct 14 inches Dia	30	LF	10.00	\$300		\$300	
	Spiral Metal Duct 12 inches Dia	395	LF	9.50	\$3,753		\$3,753	
	Spiral Metal Duct 10 inches Dia	430	LF	8.00	\$3,440		\$3,440	
	Spiral Metal Duct 8 inches Dia	600	LF	7.50	\$4,500		\$4,500	
	Spiral Metal Duct 6 inches Dia	40	LF	5.00	\$200		\$200	
	Exhaust Hood 6ftx3ft	1	EA	400.00	\$400		\$400	
	Exhaust Hood 12ftx3ft	1	EA	800.00	\$800		\$800	
	Sheetmetal Worker Labor	1200	HRS	96.00	\$115,200		\$115,200	
	Building Automation System	91100	SF	2.00	\$182,200		\$182,200	
16000	ELECTRICAL							\$2,773,039
	Subcontract		1 bid					
	Bidders:							
	Quantity Survey:							
	Temporary Supply:							
	Electric	91100	SF	0.25	\$22,775		\$22,775	
	Service:							
	4" PVC Sch 40 Conduit for CATV	650	LF	12.56	\$8,164		\$8,164	
	4" PVC Sch 40 Conduit for Phone	1000	LF	12.65	\$12,650		\$12,650	
	6'x6'x6' Concrete Precast Manhole Phone	1	EA	2,054.00	\$2,054		\$2,054	
	Concrete Precast Manhole PECO	2	EA	2,054.00	\$4,108		\$4,108	
	Transformer Concrete Pad	1	EA	2,500.00	\$2,500		\$2,500	
	Emergency Generator Concrete Pad	1	EA	3,000.00	\$3,000		\$3,000	
	15KV HV Switch Concrete Pad	1	EA	2,500.00	\$2,500		\$2,500	
	3 4" Sch 40 Conduit Concrete Encased	1650	LF	24.45	\$40,343		\$40,343	
	2 Set 3-15kv#2CU with/100% Concentric Neutral	1100	LF	302.00	\$332,200		\$332,200	
	15KV HV Switch Outside	1	EA	31,000.00	\$31,000		\$31,000	
	1500/1680 KVA Transformer 55/65 Deg C	1	EA	97,650.00	\$97,650		\$97,650	
	10 4" PVC Sch 40 Conduit Concrete Encased	1000	LF	24.45	\$24,450		\$24,450	
	8 Set 4#500+3/0GND	960	LF	273.00	\$262,080		\$262,080	
	Pull Section	1	EA	1,899.00	\$1,899		\$1,899	
	Metering Section with TVSS	1	EA	18,755.00	\$18,755		\$18,755	
	2500AMP 480V Distribution Section	1	EA	6,472.00	\$6,472		\$6,472	
	150KVAR Auto Power Factor Capacitors	1	EA	5,580.00	\$5,580		\$5,580	

Detailed Estimate

CSI	DESCRIPTION	QTY	UNIT	\$ PER	TOTAL	ADJUST	TOTAL ESTIMATE	TOTAL BY CATEGORY
	112.5KVA Transformer	1	EA	6,587.00	\$6,587		\$6,587	
	75KVA Transformer	2	EA	4,960.00	\$9,920		\$9,920	
	50KVA Transformer	3	EA	3,294.00	\$9,882		\$9,882	
	45KVA Transformer	1	EA	3,294.00	\$3,294		\$3,294	
	30KVA Transformer	3	EA	2,752.00	\$8,256		\$8,256	
	15KVA Transformer	5	EA	2,325.00	\$11,625		\$11,625	
	125KW Diesel Generator with Day Tank	1	EA	46,500.00	\$46,500		\$46,500	
	260AMP Transfer Switch	2	EA	8,603.00	\$17,206		\$17,206	
	800AMP 480/277V Panel	2	EA	5,348.00	\$10,696		\$10,696	
	225AMP 480/277V Panel	7	EA	3,875.00	\$27,125		\$27,125	
	100AMP 480/277V Panel	3	EA	2,093.00	\$6,279		\$6,279	
	250AMP 208/120V Panel	3	EA	2,596.00	\$7,788		\$7,788	
	225AMP 208/120V Panel	13	EA	2,596.00	\$33,748		\$33,748	
	100AMP 208/120V Panel	18	EA	1,356.00	\$24,408		\$24,408	
	80AMP 208/120V Panel	5	EA	977.00	\$4,885		\$4,885	
	Grounding System	1	EA	8,900.00	\$8,900		\$8,900	
	Electrician Labor	1200	HRS	99.00	\$118,800		\$118,800	
	Rigging and Hoisting	1	LS	5,000.00	\$5,000		\$5,000	
	Backhoe with Operating Engineer	10	DAY	1,000.00	\$10,000		\$10,000	
	Dumptruck with Driver	10	DAY	650.00	\$6,500		\$6,500	
	Panelboard & Equipment Feeders:							
	600AMP Panel Feeder	250	LF	110.00	\$27,500		\$27,500	
	400AMP Panel Feeder	175	LF	55.00	\$9,625		\$9,625	
	250AMP Panel Feeder	200	LF	35.00	\$7,000		\$7,000	
	225AMP Panel Feeder	900	LF	35.00	\$31,500		\$31,500	
	200AMP Panel Feeder	100	LF	30.00	\$3,000		\$3,000	
	175AMP Panel Feeder	120	LF	20.00	\$2,400		\$2,400	
	150AMP Panel Feeder	350	LF	17.00	\$5,950		\$5,950	
	125AMP Panel Feeder	120	LF	13.00	\$1,560		\$1,560	
	100AMP Panel Feeder	420	LF	12.00	\$5,040		\$5,040	
	30AMP Equipment Feeder	3000	LF	17.00	\$51,000		\$51,000	
	20AMP Equipment Feeder	3000	LF	12.00	\$36,000		\$36,000	
	Electrician Labor	2000	HRS	99.00	\$198,000		\$198,000	
	Fixtures and Devices:							
	First Floor Fixture List							
	2x4 Type B1,B2,C1	346	EA	112.00	\$38,752		\$38,752	
	1X4 Type A2,A3,C2	115	EA	81.00	\$9,315		\$9,315	
	1X4 Type A1	230	EA	73.50	\$16,905		\$16,905	
	Type EE1	25	EA	125.00	\$3,125		\$3,125	
	Type D1	16	EA	85.00	\$1,360		\$1,360	
	Type D2	6	EA	85.00	\$510		\$510	
	Type G1	10	EA	100.00	\$1,000		\$1,000	
	Type N1	6	EA	1,000.00	\$6,000		\$6,000	
	Type M1	6	EA	109.00	\$654		\$654	
	Type L1	26	EA	291.00	\$7,566		\$7,566	
	Type L2	3	EA	291.00	\$873		\$873	
	Type L3	4	EA	291.00	\$1,164		\$1,164	
	Exit Lights	34	EA	125.00	\$4,250		\$4,250	
	Second Floor Fixture List							
	2x4 Type B1,B2,C1	267	EA	112.00	\$29,904		\$29,904	
	2x2 Type B3	2	EA	330.00	\$660		\$660	

Detailed Estimate

CSI	DESCRIPTION	QTY	UNIT	\$ PER	TOTAL	ADJUST	TOTAL	TOTAL BY
			MEAS	UNIT			ESTIMATE	CATEGORY
	1x4 Type F1	4	EA	81.00	\$324		\$324	
	Type EE1	3	EA	125.00	\$375		\$375	
	Type D1	12	EA	85.00	\$1,020		\$1,020	
	Type M1	3	EA	109.00	\$327		\$327	
	Exit Lights	8	EA	125.00	\$1,000		\$1,000	
	Devices	1225	EA	20.00	\$24,500		\$24,500	
	Floor Devices	12	EA	250.00	\$3,000		\$3,000	
	Wall Switch	105	EA	20.00	\$2,100		\$2,100	
	Occupancy Senser Ceiling	68	EA	125.00	\$8,500		\$8,500	
	Occupancy Senser Wall	70	EA	125.00	\$8,750		\$8,750	
	LCD Ceiling Mounted Projector	16	EA	1,000.00	\$16,000		\$16,000	
	Amplifier fo Projector	16	EA	750.00	\$12,000		\$12,000	
	Lighting Controller with Relays	18	EA	750.00	\$13,500		\$13,500	
	Photocell	1	EA	125.00	\$125		\$125	
	Wiremold with 34 outlets	90	LF	25.00	\$2,250		\$2,250	
	Emergency Shut-Down Pushbutton	17	EA	250.00	\$4,250		\$4,250	
	Electrician Labor	4026	HRS	99.00	\$398,574		\$398,574	
	Communications System:							
	Ceiling Mounted Speaker	83	EA	102.00	\$8,466		\$8,466	
	Headend Equipment	1	EA	1,500.00	\$1,500		\$1,500	
	Phone or Computer Outlets	195	EA	25.00	\$4,875		\$4,875	
	T.V. Outlets	4	EA	25.00	\$100		\$100	
	Phone Floor Box	3	EA	50.00	\$150		\$150	
	Wiremold with 29 Phone Boxes	90	LF	15.00	\$1,350		\$1,350	
	12" Cable Tray	453	LF	20.00	\$9,060		\$9,060	
	1/4"x2"x24" Ground Copper Bar	3	EA	45.00	\$135		\$135	
	4" Conduit Sleeve	2	EA	10.00	\$20		\$20	
	3" Conduit Sleeve	4	EA	10.00	\$40		\$40	
	8'x4' Plywood for Telephone Rooms	30	EA	75.00	\$2,250		\$2,250	
	RG-11 Cable	3000	LF	3.50	\$10,500		\$10,500	
	WAP	17	EA	50.00	\$850		\$850	
	Electrician Labor	400	HRS	99.00	\$39,600		\$39,600	
	Wireless Clock System:							
	Wireless Master Transmitter	1	EA	16,300.00	\$16,300		\$16,300	
	GPS Receiver	1	EA	400.00	\$400		\$400	
	Wireless Tone Generator	1	EA	400.00	\$400		\$400	
	Primex 14480 Software	1	EA	300.00	\$300		\$300	
	Clock Mrimex Model 14155	71	EA	125.00	\$8,875		\$8,875	
	Clock Mrimex Model 14163 (Trade Work Shops)	27	EA	125.00	\$3,375		\$3,375	
	Electrician Labor	140	HRS	99.00	\$13,860		\$13,860	
	Fire Alarm System:							
	Main Fire Alarm Panel	1	EA	1,000.00	\$1,000		\$1,000	
	Booster Panel	3	EA	1,000.00	\$3,000		\$3,000	
	Remote Annunciator Panel	1	EA	1,000.00	\$1,000		\$1,000	
	Horn/Strobe	79	EA	150.00	\$11,850		\$11,850	
	Strobe	34	EA	150.00	\$5,100		\$5,100	
	Smoke Detector	15	EA	150.00	\$2,250		\$2,250	
	Smoke Duct Detector	61	EA	150.00	\$9,150		\$9,150	
	Heat Detector	15	EA	150.00	\$2,250		\$2,250	
	Pull Station	19	EA	150.00	\$2,850		\$2,850	

Detailed Estimate

CSI	DESCRIPTION	QTY	UNIT	\$ PER	TOTAL	ADJUST	TOTAL	TOTAL BY
			MEAS	UNIT			ESTIMATE	CATEGORY
	Tamper Switch	5	EA	150.00	\$750		\$750	
	Flow Switch	3	EA	150.00	\$450		\$450	
	Elevator Recall	3	EA	150.00	\$450		\$450	
	Gas Shut Off Valve	2	EA	250.00	\$500		\$500	
	Emergency Generator	2	EA	150.00	\$300		\$300	
	Testing System	24	HRS	99.00	\$2,376		\$2,376	
	Electrician Labor	320	HRS	99.00	\$31,680		\$31,680	
	Site Lighting:							
	Fixture Type AA1	7	EA	1,500.00	\$10,500		\$10,500	
	Fixture Type BB1	7	EA	1,500.00	\$10,500		\$10,500	
	Fixture Type BB2	3	EA	1,500.00	\$4,500		\$4,500	
	Fixture Type BB3	6	EA	1,500.00	\$9,000		\$9,000	
	Fixture Type DD!	17	EA	495.00	\$8,415		\$8,415	
	Sign (by others)	1	EA	500.00	\$500		\$500	
	Concrete Base	41	EA	450.00	\$18,450		\$18,450	
	1" PVC Sch 40 Conduit with 4#10	2750	LF	21.00	\$57,750		\$57,750	
	Photocell	3	EA	125.00	\$375		\$375	
	Lighting Controller	2	EA	750.00	\$1,500		\$1,500	
	Electrician Labor	160	HRS	99.00	\$15,840		\$15,840	
	Backhoe with Operating Engineer	10	DAY	950.00	\$9,500		\$9,500	
	Workshop Power:							
	3P-20AMP CB with NEMA 15-20R	18	EA	350.00	\$6,300		\$6,300	
	1P-20AMP CB with NEMA 5-20R	52	EA	250.00	\$13,000		\$13,000	
	2P-20AMP CB with NEMA 6-20R	9	EA	250.00	\$2,250		\$2,250	
	Loadcenter 12Circuit 120/240V 1PH 3W	6	EA	500.00	\$3,000		\$3,000	
	Loadcenter 28Circuit 120/240V 1PH 3W	1	EA	750.00	\$750		\$750	
	1P-30AMP Disconnect with 20AMP Fuses	13	EA	250.00	\$3,250		\$3,250	
	2P-60AMP CB Disconnect with GFI NEMA 4X Box	19	EA	250.00	\$4,750		\$4,750	
	Loadcenter 12Circuit 120/240V 1PH 3W	23	EA	500.00	\$11,500		\$11,500	
	3P-30AMP Disconnect with Indicator Light	10	EA	350.00	\$3,500		\$3,500	
	2P-30AMP Disconnect with Indicator Light	2	EA	350.00	\$700		\$700	
	3P-30AMP Disconnect	1	EA	250.00	\$250		\$250	
	2P-30AMP CB Disconnect with Indicator Light	7	EA	350.00	\$2,450		\$2,450	
	2P-60AMP CB Disconnect with Indicator Light	4	EA	450.00	\$1,800		\$1,800	
	1P-30AMP Disconnect with 20AMP Fuses	2	EA	175.00	\$350		\$350	
	2P-30AMP Disconnect with 20AMP Fuses	2	EA	350.00	\$700		\$700	
	1P-20AMP Disconnect with 20AMP Fuses	1	EA	250.00	\$250		\$250	
	Nema 15-20R	6	EA	100.00	\$600		\$600	
	Overhead Door	4	EA	350.00	\$1,400		\$1,400	
	Nema L16-20P 480V 3P	1	EA	200.00	\$200		\$200	
	Electrician Labor	640	HRS	99.00	\$63,360		\$63,360	
	Motor Hoists, installed (4 units total)	1	LS	43,200.00	\$43,200		\$43,200	
	(located in Room T116A)							
	Electrical Permit	1	EA	7,500.00	\$7,500		\$7,500	
	Underwriter Inspection	1	EA	5,000.00	\$5,000		\$5,000	

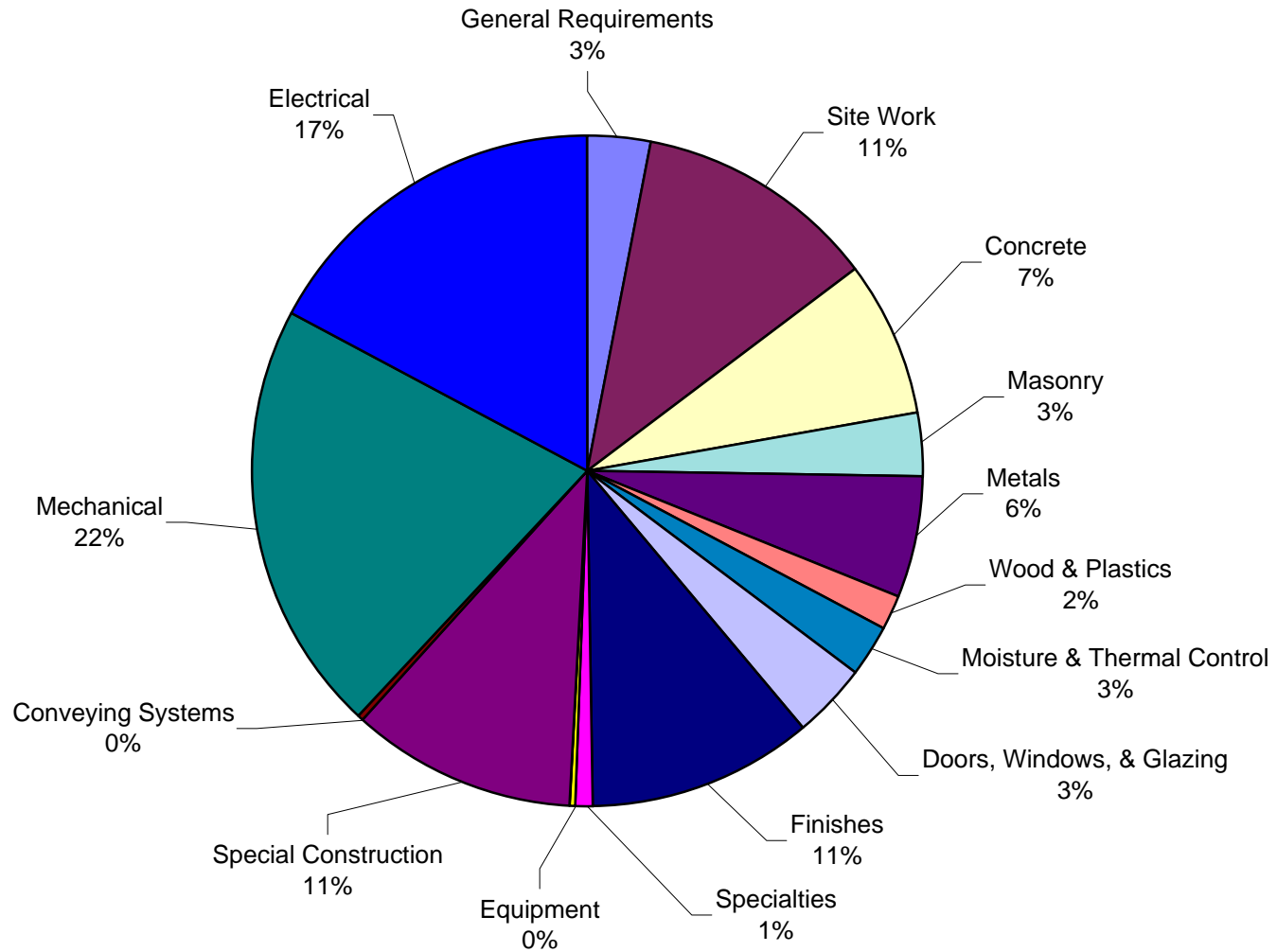
Square Foot Analysis

Building Square Footage: 91,100

General Requirements	\$502,150	\$5.51 per SF
Site Work	\$1,844,280	\$20.24 per SF
Concrete	\$1,199,410	\$13.17 per SF
Masonry	\$522,989	\$5.74 per SF
Metals	\$933,478	\$10.25 per SF
Wood & Plastics	\$259,333	\$2.85 per SF
Moisture & Thermal Control	\$409,098	\$4.49 per SF
Doors, Windows, & Glazing	\$557,124	\$6.12 per SF
Finishes	\$1,735,660	\$19.05 per SF
Specialties	\$140,293	\$1.54 per SF
Equipment	\$49,349	\$0.54 per SF
Furnishings	\$0	\$0.00 per SF
Special Construction	\$1,724,369	\$18.93 per SF
Conveying Systems	\$50,000	\$0.55 per SF
Mechanical	\$3,337,567	\$36.64 per SF
Electrical	\$2,773,039	\$30.44 per SF
TOTAL DIRECT COSTS:	\$16,038,138	\$176.05 per SF
GC FEE:	\$1,283,051	\$14.08 per SF
TOTAL BASE ESTIMATE:	\$17,321,189	\$190.13 per SF
BUILDER'S CONTINGENCY:	\$0	\$0.00 per SF
subtotal:	\$17,321,189	\$190.13 per SF
Performance & Payment Bonds:	\$173,212	\$1.90 per SF
GRAND TOTAL :	\$17,494,401	\$192.04 per SF

Furnishings
0%

Cost Ratio Analysis



Schedule of Alternates

DESCRIPTION	QTY	UNIT MEAS	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE	
Alternate #1: Add Acoustic Ceilings in Trades							
Rooms							
T109A	2028	SF	3.00	\$6,084		\$6,084	
T115A	2664	SF	3.00	\$7,992		\$7,992	
T116A	1355	SF	3.00	\$4,065		\$4,065	
T117A	2368	SF	3.00	\$7,104		\$7,104	
T118A	1600	SF	3.00	\$4,800		\$4,800	
T119A	944	SF	3.00	\$2,832		\$2,832	
T120A	1480	SF	3.00	\$4,440		\$4,440	
T121A	1180	SF	3.00	\$3,540		\$3,540	
T122A	2696	SF	3.00	\$8,088		\$8,088	
T123A	1112	SF	3.00	\$3,336		\$3,336	
T126A	2496	SF	3.00	\$7,488		\$7,488	
T128A	2440	SF	3.00	\$7,320		\$7,320	
T131A	2646	SF	3.00	\$7,938		\$7,938	
T133A	2708	SF	3.00	\$8,124		\$8,124	
Subtotal, Costs before General Requirements						\$83,151	
General Requirements						10%	\$8,315
Subtotal, Bare Cost						\$91,466	
Fee						10%	\$9,147
TOTAL						\$100,613	
Alternate #2: Add Acoustic Insulation in Trades							
Wall Types Insulation at Trades							
1B	9429	SF	0.35	\$3,300		\$3,300	
2	9692	SF	0.72	\$6,978		\$6,978	
2B	24882	SF	0.72	\$17,915		\$17,915	
2C	29725	SF	0.72	\$21,402		\$21,402	
3	5101	SF	0.35	\$1,785		\$1,785	
3A	1689	SF	0.72	\$1,216		\$1,216	
3B	1268	SF	0.35	\$444		\$444	
1	3800	SF	0.35	\$1,330		\$1,330	
Carpentry Labor	490	HRS	81.00	\$39,690		\$39,690	
Fiberglass Insulation							
	46597	SF	0.72	\$33,550		\$33,550	
Carpentry Labor	277	HRS	81.00	\$22,437		\$22,437	
Subtotal, Costs before General Requirements						\$150,048	
General Requirements						10%	\$15,005
Subtotal, Bare Cost						\$165,052	
Fee						10%	\$16,505
TOTAL						\$181,557	
Alternate #3: Add insulation 1st FI Admin							
Wall Types							
1	25552	SF	0.35	\$8,943		\$8,943	
1D	126	SF	0.35	\$44		\$44	
3	1624	SF	0.35	\$568		\$568	

Schedule of Alternates

DESCRIPTION	QTY	UNIT	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE
3A	812	SF	0.72	\$585		\$585
10	2016	SF	0.72	\$1,452		\$1,452
11	280	SF	0.35	\$98		\$98
Carpentry Labor	155	HRS	81.00	\$12,555		\$12,555
Subtotal, Costs before General Requirements						\$24,245
General Requirements						10%
Subtotal, Bare Cost						\$26,669
Fee						10%
TOTAL						\$29,336
Alternate #4: Add Insulation 2nd Fl Admin						
Wall Types						
1	11732		0.35	\$4,106		\$4,106
1B						
1D	1274		0.35	\$446		\$446
2	84		0.72	\$60		\$60
2B						
3	1946		0.35	\$681		\$681
3A	210		0.72	\$151		\$151
3B	588		0.35	\$206		\$206
Carpentry Labor	80	HRS	81.00	\$6,480		\$6,480
Subtotal, Costs before General Requirements						\$12,131
General Requirements						10%
Subtotal, Bare Cost						\$13,344
Fee						10%
TOTAL						\$14,678
Alternate #5: Add Folding Partition						
4/A104						
GWB	480	SF	0.65	\$312		\$312
Steel Studs	120	LF	0.65	\$78		\$78
Finisher	240	SF	0.60	\$144		\$144
Carpentry Labor	16	HRS	81.00	\$1,296		\$1,296
Painting	240	SF	0.60	\$144		\$144
30X9 Folding Partition	1	EA	20,000.00	\$20,000		\$20,000
Subtotal, Costs before General Requirements						\$21,974
General Requirements						10%
Subtotal, Bare Cost						\$24,171
Fee						10%
TOTAL						\$26,589
Alternate #6: Add GWB above 12' in Trades						
Wall Types						
2B	29172	SF	0.65	\$18,962		\$18,962

Schedule of Alternates

DESCRIPTION	QTY	UNIT MEAS	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE
2C	17425	SF	0.65	\$11,326		\$11,326
Carpentry Labor	324	HRS	81.00	\$26,244		\$26,244
Drywall Finishing Subcontractor	46597	SF	0.60	\$27,958		\$27,958
Painting	46597	SF	0.60	\$27,958		\$27,958
Subtotal, Costs before General Requirements						\$112,448
General Requirements			10%			\$11,245
Subtotal, Bare Cost						\$123,693
Fee			10%			\$12,369
TOTAL						\$136,063
<u>Alternate #7: Add FRP in Corridors</u>						
FRP	2088	SF	1.45	\$3,028		\$3,028
Carpentry Labor	24	HRS	81.00	\$1,944		\$1,944
Subtotal, Costs before General Requirements						\$4,972
General Requirements			10%			\$497
Subtotal, Bare Cost						\$5,469
Fee			10%			\$547
TOTAL						\$6,016
<u>Alternate #8: Hardware Schedule #2</u>						
Electric Hardware Sets	136	EA	450.00	\$61,200		\$61,200
Electrical Supplies	136	EA	50.00	\$6,800		\$6,800
Electrician Labor	272	HRS	99.00	\$26,928		\$26,928
Subtotal, Costs before General Requirements						\$94,928
General Requirements			10%			\$9,493
Subtotal, Bare Cost						\$104,421
Fee			10%			\$10,442
TOTAL						\$114,863
<u>Alternate #9: Add Architectural Landscaping</u>						
Korean Fire	1	EA	182.00	\$182		\$182
Drooping Leucothoe	3	EA	182.00	\$546		\$546
Large Leaf Hosta	22	EA	22.00	\$484		\$484
Dogwood	5	EA	126.00	\$630		\$630
Paper Bark Maple	1	EA	182.00	\$182		\$182
White Pine	9	EA	182.00	\$1,638		\$1,638
Lambs Ear	70	EA	22.00	\$1,540		\$1,540
Red Twig Doogwood	32	EA	77.00	\$2,464		\$2,464
Star Magnolia	3	EA	182.00	\$546		\$546
Japanese Laurel	4	EA	162.00	\$648		\$648
Euontmus Japonica	2	EA	185.00	\$370		\$370
Oak Leaf hydrangea	9	EA	43.00	\$387		\$387
Blue Lilly Turf	182	EA	18.00	\$3,276		\$3,276
Paper Birch	5	EA	185.00	\$925		\$925

Schedule of Alternates

DESCRIPTION	QTY	UNIT MEAS	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE
Daffodil Bulbs	500	EA	5.00	\$2,500		\$2,500
Black Eyed Susan	10	EA	18.00	\$180		\$180
Rhododendron	13	EA	53.00	\$689		\$689
Laborer	160	HRS	65.00	\$10,400		\$10,400
Subtotal, Costs before General Requirements						\$27,587
General Requirements			10%			\$2,759
Subtotal, Bare Cost						\$30,346
Fee			10%			\$3,035
TOTAL						\$33,380
Alternate #10: Change to Stylewall II Fluted						
Deduct Insulated Siding	23150	SF	-8.49	(\$196,544)		(\$196,544)
Add Stylewall II Fluted	23150	SF	5.97	\$138,206		\$138,206
Add 9 inch Insulation	23150	SF	2.52	\$58,338		\$58,338
No savings!						
Subtotal, Costs before General Requirements						
General Requirements			10%			
Subtotal, Bare Cost						
Fee			10%			
TOTAL						
Alternate #11: Delete Translucent Panel P3						
Deduct Window P3	29	EA	-300.00	(\$8,700)		(\$8,700)
Deduct Framing	29	EA	-365.00	(\$10,585)		(\$10,585)
Add Insulated Siding	1066	SF	8.49	\$9,050		\$9,050
Subtotal, Costs before General Requirements						(\$10,235)
General Requirements						
Subtotal, Bare Cost						(\$10,235)
Fee						
TOTAL						(\$10,235)
Alternate #12: Add Two Floor Drains						
Floor Drains	2	EA	650.00	\$1,300		\$1,300
Pipe and Fittings	1	LS	1,000.00	\$1,000		\$1,000
Plumber Labor	24	HRS	94.00	\$2,256		\$2,256
Subtotal, Costs before General Requirements						\$4,556
General Requirements			10%			\$456
Subtotal, Bare Cost						\$5,012

Schedule of Alternates

DESCRIPTION	QTY	UNIT MEAS	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE
Fee	10%					\$501
TOTAL						\$5,513
Alternate #13: Hardwired Master Clock						
Control panel	1	EA	4,500.00	\$4,500		\$4,500
Wall Clock	98	EA	125.00	\$12,250		\$12,250
Cable	2000	LF	4.50	\$9,000		\$9,000
Electrician Labor	160	HRS	99.00	\$15,840		\$15,840
Subtotal, Costs before General Requirements						\$41,590
General Requirements	10%					\$4,159
Subtotal, Bare Cost						\$45,749
Fee	10%					\$4,575
TOTAL						\$50,324
Alternate #14: Add CCTV System						
Camera Interior	26	EA	745.00	\$19,370		\$19,370
Camera Exterior Waterproof	20	EA	930.00	\$18,600		\$18,600
Video Recorder	1	EA	605.00	\$605		\$605
Monitor	1	EA	605.00	\$605		\$605
RG-6U Coax Cable	1000	LF	17.50	\$17,500		\$17,500
Electrician Labor	160	HRS	99.00	\$15,840		\$15,840
Security System:						
Security Server Dell 1850	1	EA	4,000.00	\$4,000		\$4,000
Security Computer Dell Precision 490	1	EA	1,500.00	\$1,500		\$1,500
Intrusion Detection System:						
RX Exit Switch	27	EA	60.00	\$1,620		\$1,620
DC Door Switch	31	EA	60.00	\$1,860		\$1,860
CR Card Reader	8	EA	517.00	\$4,136		\$4,136
MD Motion Detector	14	EA	231.00	\$3,234		\$3,234
Security Keypad	1	EA	1,210.00	\$1,210		\$1,210
Security Siren	2	EA	148.00	\$296		\$296
Bosch Security System model D9412G (DAC)	1	EA	5,500.00	\$5,500		\$5,500
18 AWG CAT 6 Plenum rated cable	2000	LF	17.50	\$35,000		\$35,000
Electrician Labor	160	HRS	99.00	\$15,840		\$15,840
Subtotal, Costs before General Requirements						\$146,716
General Requirements	10%					\$14,672
Subtotal, Bare Cost						\$161,388
Fee	10%					\$16,139
TOTAL						\$177,526
Alternate #15: Change to Insulated OH Doors						
OH Coiling Doors with Insulation	3	EA	1,000.00	\$3,000		\$3,000

Schedule of Alternates

DESCRIPTION	QTY	UNIT MEAS	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE
Subtotal, Costs before General Requirements						\$3,000
General Requirements	10%					\$300
Subtotal, Bare Cost						\$3,300
Fee	10%					\$330
TOTAL						\$3,630
Alternate #16: Eliminate Motor Hoists						
(located in Room T116A)						
Motor Hoists, installed (4 units total)	1	LS	-43,200.00	(\$43,200)		(\$43,200)
Subtotal, Costs before General Requirements						(\$43,200)
General Requirements						
Subtotal, Bare Cost						(\$43,200)
Fee						
TOTAL						(\$43,200)
Alternate #17: Add Roller Shades						
Roller Shades						
Windows						
W1	17	EA	180.00	\$3,060		\$3,060
W2	12	EA	255.00	\$3,060		\$3,060
W3	19	EA	360.00	\$6,840		\$6,840
W4	14	EA	510.00	\$7,140		
W5	3	EA	180.00	\$540		\$540
Carpentry Labor	65	HRS	81.00	\$5,265		\$5,265
Subtotal, Costs before General Requirements						\$18,765
General Requirements	10%					\$1,877
Subtotal, Bare Cost						\$20,642
Fee	10%					\$2,064
TOTAL						\$22,706

Notes from the Estimator

- 1 The designation "F&DwT" indicates furnished and delivered with tax. Labor is not included.
The designation "F&I" indicates a subcontract item which is furnished and installed. The
- 2 subcontractor has included the materials sales tax in his price.
Labor rates are based upon the Philadelphia Area collective bargaining agreements for wages and
- 3 benefits scheduled to take effect on **May 1, 2006**. Line item labor represents a composite direct
cost of the ratio of 1 foreman to 3 journeymen, and includes the wages, benefits, and the employer's
- 4 Labor rates represent the current "buy" rate that a builder would pay specialty subcontractors on an
hourly basis. The rates include a reasonable allowance for the subcontractors' overhead and profit.

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