

PROJECT: Renovation and Addition
Van Buren High School

Fort Smith, Arkansas

OWNER

School District
 Van Buren High School
 Fort Smith, Arkansas

CONTRACTOR

DESIGNER

Hight - Jackson Associates
 5201 Village Parkway, Suite 300
 Rogers, Arkansas 72757

CSI Summary

H&J-01-04

GENERAL CONTRACTOR ADJUSTMENTS

Contingency: 5.00% Profit: 8.00% Overhead: 8.00% Bond: 1.00%

Cubic Footage: 1,824,000 Square Footage: 182,400

MCM Project Number:



CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub.	Total	\$/Unit	\$/SF
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Phase 01 - New

01	GENERAL REQUIREMENTS			114				\$9,113	0.05	
02	SITEWORK			7,271				\$1,595,203	8.75	
03	CONCRETE			9,090				\$921,426	5.05	
04	MASONRY			13,419				\$1,049,771	5.76	
05	METALS			6,827				\$1,907,649	10.46	
06	WOODS AND PLASTICS			154				\$10,284	0.06	
07	THERMAL AND MOISTURE PROTECTION			4,526				\$377,674	2.07	
08	DOORS AND WINDOWS			1,765				\$487,367	2.67	
09	FINISHES			15,709				\$1,837,772	10.08	
10	SPECIALTIES			1,142				\$564,900	3.10	
11	EQUIPMENT			633				\$172,462	0.95	
12	FURNISHINGS			826				\$305,765	1.68	
13	SPECIAL CONSTRUCTION			5,417				\$688,819	3.78	
14	CONVEYING SYSTEMS			160				\$29,514	0.16	
15	MECHANICAL			20,853				\$1,918,520	10.52	
16	ELECTRICAL			7,254				\$1,403,319	7.69	
								\$13,279,559	72.80	

Phase 01 - New

Phase 02 - Existing

02	SITEWORK			926				\$633,136	3.47	
16	ELECTRICAL			36				\$5,079	0.03	
								\$638,215	3.50	

Phase 02 - Existing

Emailed on
 AUG 25 2004
 By MCM Services

PRELIMINARY

Phase 02 - Existing



MCM services

GENERAL CONTRACTOR ADJUSTMENTS

Contingency: 5.00% Profit: 8.00% Overhead: 8.00% Bond: 1.00%

Cubic Footage: 1,824,000 Square Footage: 182,400

CSI Summary

H&J-01-04

MCM Project Number:

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF
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Phase 02 - New

01	GENERAL REQUIREMENTS			51				\$4,066		0.02
02	SITWORK			984				\$120,377		0.66
03	CONCRETE			2,396				\$270,974		1.49
04	MASONRY			12,554				\$908,282		4.98
05	METALS			2,489				\$734,315		4.03
06	WOODS AND PLASTICS			154				\$10,284		0.06
07	THERMAL AND MOISTURE PROTECTION			2,391				\$215,086		1.18
08	DOORS AND WINDOWS			474				\$155,930		0.85
09	FINISHES			5,442				\$638,765		3.50
10	SPECIALTIES			614				\$310,887		1.70
12	FURNISHINGS			1,045				\$263,507		1.44
13	SPECIAL CONSTRUCTION			664				\$110,368		0.61
15	MECHANICAL			6,638				\$657,439		3.60
16	ELECTRICAL			2,305				\$435,779		2.39
Phase 02 - New								\$4,836,058		26.51
ESTIMATE GRAND TOTAL								\$18,753,832		102.82

Emailed on
AUG 25 2004
By MCM Services

PRELIMINARY

SUBTOTAL

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GENERAL CONTRACTOR ADJUSTMENTS
Contingency: 5.00% Profit: 3.00% Overhead: 8.00% Bond: 1.00%
Cubic Footage: 1,370,000 Square Footage: 137,000

CSI Summary

H&J-01-04

MCM Project Number:

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub.	Total Quote	\$/Unit	\$/SF
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Phase 01 - New

01	GENERAL REQUIREMENTS			114				\$9,113	0.07		
02	SITWORK			7,271				\$1,595,203	11.64		
03	CONCRETE			9,090				\$921,426	6.73		
04	MASONRY			13,419				\$1,049,771	7.66		
05	METALS			6,327				\$1,907,649	13.92		
06	WOODS AND PLASTICS			154				\$10,284	0.08		
07	THERMAL AND MOISTURE PROTECTION			4,526				\$377,674	2.76		
08	DOORS AND WINDOWS			1,765				\$487,367	3.56		
09	FINISHES			15,709				\$1,837,772	13.41		
10	SPECIALTIES			1,142				\$564,900	4.12		
11	EQUIPMENT			633				\$172,462	1.26		
12	FURNISHINGS			826				\$305,765	2.23		
13	SPECIAL CONSTRUCTION			5,417				\$688,819	5.03		
14	CONVEYING SYSTEMS			160				\$29,514	0.22		
15	MECHANICAL			20,853				\$1,918,520	14.00		
16	ELECTRICAL			7,254				\$1,403,319	10.24		
Phase 01 - New									\$13,279,559	96.93	
ESTIMATE GRAND TOTAL									\$13,279,559	96.93	

Emailed on
AUG 25 2004
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PRELIMINARY

Phase 01 - New

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MCM services

GENERAL CONTRACTOR ADJUSTMENTS

Contingency: 5.00% Profit: 3.00% Overhead: 8.00% Bond: 1.00%

Cubic Footage: 1,370,000 Square Footage: 137,000

CSI DETAIL

H8.-01-04

MCM Project Number:

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF
01	GENERAL REQUIREMENTS									
.01540 750 0050	Scaffolding, steel tubular, reg. rent, 1 use/mo, erect or dismantle, bldg ext, wall face, 6'-4" x 5' frames, 1 to 5 stories, excl. planks	64.0	C.S.F.	64	\$2,568	\$2,507	\$0	\$5,165	80.70	0.04
.01540 750 0360	Scaffolding, steel tubular, reg. rent, 1 use/mo, erect or dismantle, bldg interior, wall face, 6'-4" x 5' frames, 16' to 40' H, excl. planks	48.0	C.S.F.	50	\$1,992	\$1,965	\$0	\$3,948	82.24	0.03
01	GENERAL REQUIREMENTS			114				\$9,113		0.07
02	SITEWORK									
.02220 100 0500	Building demolition, small buildings or single buildings, steel, includes 20 mile haul, excludes salvage	215,490.0	C.F.	646	\$25,500	\$0	\$36,438	\$62,938	0.29	0.46
.02230 100 0260	Clear and grub, dense brush, including stumps, clear and grub	4.9	Acre	249	\$9,947	\$0	\$23,648	\$33,595	6,878.97	0.25
.02300 5250 0100	Mobilization or demobilization, dozer, loader, backhoe or excavator, above 250 H.P., up to 50 miles	2.0	Ea.	5	\$195	\$0	\$470	\$666	332.80	0.00
.02310 100 0012	Fine grade, small area, to be paved with grader	23,000.0	S.Y.	920	\$37,830	\$0	\$34,648	\$72,479	3.15	0.53
.02310 100 1100	Fine grade, fine grade for slab on grade, machine	10,489.4	S.Y.	157	\$6,611	\$0	\$6,127	\$12,738	1.21	0.09
.02310 100 3300	Fine grade, slopes, gentle, gentle, finish grading	22,222.2	S.Y.	44	\$1,708	\$0	\$1,708	\$3,416	0.15	0.02
.02315 110 1700	Backfill, bulk, 6" to 12" lifts, dozer backfilling, compaction with sheepfoot roller	24.0	E.C.Y.	0	\$17	\$0	\$42	\$59	2.44	0.00
.02315 110 1700	Backfill, bulk, 6" to 12" lifts, dozer backfilling, compaction with sheepfoot roller	178.4	E.C.Y.	3	\$123	\$0	\$313	\$436	2.44	0.00
.02315 462 1000	Excavating, structural, bank measure, bottom of excavation, hand trimming	800.0	S.F.	14	\$492	\$0	\$0	\$492	0.61	0.00
.02315 462 1010	Excavating, structural, bank measure, slopes and sides, hand trimming	9,721.5	S.F.	165	\$5,973	\$0	\$0	\$5,978	0.61	0.04

Phase 01 - New

Phase 01 - New
SITEWORK



MCM services

GENERAL CONTRACTOR ADJUSTMENTS

Contingency: 5.00% Profit: 8.00% Overhead: 8.00% Bond: 1.00%

Cubic Footage: 1,370,000 Square Footage: 137,000

CSI DETAIL

MCM Project Number: H&J-01-04

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF
02315 462 6035	Excavating, structural, bank measure, for spread and mat footings, elevator pits, and small building foundations, common earth, 3/4 C.Y. bucket, machine excavation, hydraulic backhoe	63.4	C.Y.	11	\$602	\$0	\$452	\$954	15.05	0.01
02315 520 0500	Fill, gravel fill, compacted, under floor slabs, 4" deep	94,405.0	S.F.	472	\$17,414	\$15,963	\$1,451	\$34,829	0.37	0.25
02315 610 0060	Excavating, trench or continuous footing, common earth, 1' to 4' deep, 1/2 C.Y. bucket, tractor loader/backhoe, excludes sheeting or dewatering	538.9	B.C.Y.	43	\$1,781	\$0	\$870	\$2,651	4.92	0.02
02315 632 4020	Excavating, bulk, open site, bank measure, common earth, 200 H.P., 50' haul, dozer	12,000.0	B.C.Y.	120	\$4,981	\$0	\$11,806	\$16,786	1.40	0.12
02315 640 0560	Hauling, excavated or borrow material, loose cubic yards, 6 mile round trip, base wide rate, 12 C.Y. truck, highway haulers, excludes loading	12,000.0	L.C.Y.	1,666	\$60,689	\$0	\$137,426	\$198,114	16.51	1.45
02580 4 206 200	Underground duct banks, rigid galvanized steel, 2 @ 2" diameter, excludes excavation, backfill and cast in place concrete	1,000.0	L.F.	89	\$3,843	\$18,139	\$0	\$21,982	21.98	0.16
02750 300 0110	Concrete pavement, fixed form, unreinforced, 12" pass, 8" thick, small area, includes joints, finishing, and curing	23,000.0	S.Y.	1,472	\$58,589	\$801,568	\$47,023	\$1,005,160	43.70	7.34
02775 275 0310	Sidewalk, concrete, cast-in-place, broomed finish, 3000 psi, 4" thick	8,028.0	S.F.	321	\$12,834	\$15,056	\$0	\$27,890	3.47	0.20
02810 300 0900	Sprinkler irrigation system, for lawns, residential system, custom, 1-1/2" supply	35,000.0	S.F.	455	\$18,293	\$19,389	\$0	\$37,661	1.08	0.27
02830 207 140	Retaining walls, segmental retaining wall system, large unit, 8" high x 18" wide x 20" deep, includes pins, and void fill, base not included, excludes base	800.0	S.F.	64	\$2,423	\$13,220	\$541	\$16,184	20.23	0.12
02920 400 0300	Sodding, bluegrass sod, on level ground, 1000 S.F.	100.0	M.S.F.	296	\$11,145	\$21,982	\$1,483	\$34,610	346.10	0.25
02930 320 3300	Broadleaf evergreen shrubs, deciduous, hibiscus, B & B, 3' - 4', planted in prepared beds	60.0	Ea.	26	\$878	\$541	\$695	\$2,214	36.89	0.02
02930 410 0100	Deciduous trees, ash, B & B, 2" caliper, in prepared beds	10.0	Ea.	40	\$1,537	\$907	\$930	\$3,374	337.42	0.02
02	SITEWORK	SUBTOTAL		7,271				\$1,595,203	11.64	
03	CONCRETE									
03150 250 0050	Expansion joint, cold, keyed, 24 ga. X 4-1/2" high, includes stakes	500.0	L.F.	20	\$761	\$523	\$0	\$1,284	2.57	0.01
03150 250 3000	Expansion joint, polyethylene backer rod, 3/8" diameter	4,450.0	L.F.	76	\$2,941	\$274	\$0	\$3,215	0.72	0.02

Phase 01 - New CONCRETE



services

GENERAL CONTRACTOR ADJUSTMENTS

Contingency: 5.00% Profit: 8.00% Overhead: 8.00% Bond: 1.00%

Cubic Footage: 1,370,000 Square Footage: 137,000

CSI DETAIL

MCM Project Number: H&J-01-04

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF
03220 200 0100	Welded wire fabric, sheets, 6 x 6 - W1.4 x W1.4 (10 x 10) 21 lb. per C.S.F., A185	944.1	C.S.F.	431	\$19,011	\$15,165	\$0	\$34,176	36.20	0.25
03310 220 0200	Structural concrete, ready mix, normal weight, 3500 psi, includes material only	1,269.2	C.Y.	0	\$0	\$157,059	\$0	\$157,059	123.74	1.15
03310 240 1950	Structural concrete, in place, elevated slab, flat slab, 125 psf superimposed load, 30' span, includes forms(4 uses), reinforcing steel, and finishing	470.6	C.Y.	1,919	\$75,950	\$114,287	\$9,584	\$199,822	424.65	1.46
03310 240 3950	Structural concrete, in place, spread footing, over 5 C.Y., includes forms(4 uses), reinforcing steel, and finishing	28.0	C.Y.	39	\$1,463	\$4,519	\$12	\$5,995	214.12	0.04
03310 240 3950	Structural concrete, in place, continuous strip footing, 36" wide x 12" deep, includes forms(4 uses), reinforcing steel, and finishing	834.0	C.Y.	1,557	\$68,973	\$130,767	\$800	\$190,240	228.11	1.39
03310 240 4250	Structural concrete, in place, grade wall, 12" thick x 8' high, includes forms(4 uses), reinforcing steel, and finishing	148.5	C.Y.	462	\$18,148	\$27,849	\$2,408	\$48,406	325.96	0.35
03310 240 4520	Structural concrete, in place, handicap access ramp, railing both sides, 3' wide, includes forms(4 uses), reinforcing steel, and finishing	150.0	L.F.	494	\$19,138	\$37,354	\$374	\$56,866	379.10	0.42
03310 240 4521	Structural concrete, in place, Stoop	100.0	L.F.	329	\$12,759	\$24,903	\$249	\$37,910	379.10	0.28
03310 240 6900	Structural concrete, in place, stairs, free standing, includes forms(4 uses), reinforcing steel, and finishing, excludes safety treads	2,970.0	LF Nose	1,717	\$66,984	\$34,241	\$1,278	\$102,404	34.48	0.75
03310 240 7050	Structural concrete, in place, stair landing, cast on ground, includes forms(4 uses), reinforcing steel, and finishing	60.0	S.F.	6	\$236	\$154	\$5	\$395	6.68	0.00
03310 700 4350	Structural concrete, placing, slab on grade, pumped, 4" thick, excludes material	1,269.2	C.Y.	624	\$20,876	\$0	\$10,536	\$31,412	24.75	0.23
03350 300 0250	Concrete finishing, floors, monolithic, machine trowel finish	94,405.0	S.F.	1,416	\$52,243	\$0	\$0	\$52,243	0.55	0.38
03 CONCRETE	SUBTOTAL			9,080				\$921,426	6.73	
04 MASONRY										
04070 420 0250	GROUT, concrete masonry unit (CMU) cores, 8" thick, 0.258 C.F./S.F., pumped, excludes blockwork	25,607.8	S.F.	1,204	\$41,726	\$38,577	\$7,086	\$87,389	3.41	0.64
04810 164 0600	Concrete masonry unit (CMU), exterior, tooled joints both sides, lightweight, 2000 psi, 8" x 8" x 16", includes reinforcing alternate courses and foam inserts, excludes scaffolding	111,320.0	S.F.	10,363	\$378,178	\$448,337	\$0	\$826,515	7.42	6.03
04810 160 0450	Concrete masonry unit (CMU), lintel, 8" x 8" x 16", includes grout and 2-#4 reinforcing bars, excludes scaffolding	3,000.0	L.F.	357	\$12,405	\$29,745	\$2,121	\$44,271	14.76	0.32

Phase 01 - New

Phase 01 - New
MASONRY



MCM services

GENERAL CONTRACTOR ADJUSTMENTS

Contingency: 5.00% Profit: 8.00% Overhead: 8.00% Bond: 1.00%

Cubic Footage: 1,370,000 Square Footage: 137,000

CSI DETAIL

MCM Project Number: H&J-01-04

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF
04810 000050	Red brick, veneer, running bond, T.L. lots, 6.75/S.F., 4" x 2-2/3" x 8", includes 3% brick and 25% mortar waste, excludes scaffolding	56.5	M	1,506	\$65,131	\$36,465	\$0	\$91,596	1,621.75	0.67
04 MASONRY		13,419						\$1,049,771		7.66
05 METALS										
05120 180 0020	Canopy framing, structural steel, 6" and 8" members	1,000.0	Lb.	11	\$477	\$1,445	\$46	\$1,968	1.97	0.01
05120 880 3220	Structural steel project, schools, 100-ton project, A36 steel, shop fabricated, incl shop primer, bolted connections, maximum	198.3	Ton	1,911	\$83,806	\$685,689	\$49,979	\$819,475	4,133.63	5.98
05210 600 0460	Open web bar joist, 40-ton job lots, 30' to 50' spans, K series, shop fabricated, incl shop primer, horizontal bridging, maximum	280.9	Ton	2,247	\$97,138	\$464,102	\$61,736	\$622,976	2,218.18	4.55
05310 300 2200	Metal decking, steel, open type, wide rib, galvanized, 50 to 500 Sq, 1-1/2" D, 22 ga	99,125.3	S.F.	694	\$28,951	\$120,377	\$3,048	\$152,375	1.54	1.11
05410 300 0300	Boxed headers/beam, galv CF joist/LB track for LB stud partition, double, 16 ga x 8" D	2,500.0	L.F.	223	\$9,885	\$18,831	\$0	\$27,516	11.01	0.20
05410 400 8800	Partition, galv LB studs, 14 ga x 6" W studs 16" O.C. x 20' H, incl galv top & bottom track exci openings, headers, beams, bracing & bridging	3,978.0	L.F.	1,516	\$59,315	\$162,047	\$0	\$221,362	55.65	1.62
055177000900	Stair, custom, steel, per riser	104.0	Riser	166	\$6,714	\$44,603	\$547	\$51,865	498.70	0.38
05520 700 0560	Railing, pipe, steel, galvanized, 2 rails, 1-1/2" dia	300.0	L.F.	60	\$2,444	\$7,471	\$198	\$10,113	33.71	0.07
05 METALS		6,827						\$1,907,649		13.92
06 WOODS AND PLASTICS										
06110 100 2740	Miscellaneous wood blocking, to steel construction	2.0	M.B.F.	114	\$4,381	\$1,691	\$0	\$6,072	3,036.97	0.04
06110 555 8000	Wood framing, roof curbs	2.0	M.B.F.	40	\$1,537	\$2,675	\$0	\$4,212	2,106.96	0.03
06 WOODS AND PLASTICS		154						\$10,284		0.08
07 THERMAL AND MOISTURE PROTECTION										
07210 930 0100	Wall or Ceiling Insulation, Non-Rigid, fiberglass, kraft faced, batts or blankets, 3-1/2" thick, R11, 23" wide	19,225.0	S.F.	96	\$2,955	\$6,206	\$0	\$9,161	0.48	0.07

Phase 01 - New



services

GENERAL CONTRACTOR ADJUSTMENTS
 Contingency: 5.00% Profit: 8.00% Overhead: 8.00% Bond: 1.00%

Cubic Footage: 1,370,000 Square Footage: 137,000

CSI DETAIL

MCM Project Number:

H&J-01-04

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF
07210 560 0160	Fiberglass insulation, kraft faced, batts or blankets for walls or ceilings, 6" thick, R19, 15" wide	26,484.0	S.F.	159	\$4,478	\$11,399	\$0	\$15,877	0.60	0.12
07220 700 1930	Roof Deck Insulation, install polystyrene insulation, 3" thick, R15, 15 PSI compressive strength	94,405.0	S.F.	755	\$18,866	\$89,974	\$0	\$108,840	1.15	0.79
07220 700 1940	Roof Deck Insulation, extruded polystyrene, 1" thick, R5, 25 PSI compressive strength	47,202.5	S.F.	236	\$5,805	\$27,573	\$0	\$33,377	0.71	0.24
07240 100 0130	Exterior Insulation Finish System, field applied, 4" EPS insulation, with 1/2" cement board sheathing	5,000.0	S.F.	910	\$22,289	\$27,670	\$2,844	\$52,803	10.56	0.39
07260 100 0900	Building Paper, polyethylene vapor barrier, standard, .006" thick, 9' x 400' roll	944.1	Sq.	204	\$5,848	\$3,613	\$0	\$9,462	10.02	0.07
07460 100 4800	Aluminum siding, multi story	3,400.0	S.F.	316	\$12,544	\$18,345	\$0	\$30,888	9.08	0.23
07510 700 0600	Felt, glass fibered, flashing membrane, #45	23.2	Sq.	12	\$405	\$731	\$0	\$1,136	48.96	0.01
07510 700 1700	mop Felt	11.6	Sq.	3	\$111	\$79	\$25	\$215	18.55	0.00
07550 500 0940	Modified Bitumen Roofing, base sheet, #15 glass fiber felt, fully mopped to deck	944.1	Sq.	276	\$8,897	\$11,900	\$2,051	\$22,958	24.32	0.17
07650 600 0100	Aluminum flashing, flexible, mill finish, .032" thick	5,800.0	S.F.	319	\$11,145	\$9,686	\$0	\$21,130	3.64	0.15
07812 600 0400	Cementitious Fireproofing, sprayed mineral fiber or cementitious for fireproofing, beams, 1 hour rated, 1-3/8" thick, excl. tamping or canvas protection	50,034.7	S.F.	801	\$19,228	\$29,227	\$4,615	\$53,070	1.06	0.39
07840 100 0200	Firestopping, metallic piping, insulated, through walls, 2" dia	40.0	Ea.	20	\$433	\$858	\$0	\$1,291	32.28	0.01
07920 800 2800	Caulking & Sealants, polysulfide compounds, in place, 1 or 2 component, 308 LF per gal, 1/4" x 1/4"	7,625.0	L.F.	419	\$15,941	\$1,524	\$0	\$17,465	2.29	0.13
07	THERMAL AND MOISTURE PROTECTION	4,526						\$377,674		2.76
08	DOORS AND WINDOWS									
08110 200 0120	Doors, commercial, steel, flush, full panel, hollow core, for vision lite, add	63.0	Ea.	63	\$0	\$4,891	\$0	\$4,891	77.63	0.04
08110 200 0640	Doors, commercial, steel, flush, full panel, hollow core, 20 ga., 3'-0" x 7'-0" x 1-3/4" thick	164.0	Ea.	154	\$5,672	\$47,647	\$0	\$53,319	328.12	0.39

Phase 01 - New

Phase 01 - New
 DOORS AND WINDOWS



MCM services

GENERAL CONTRACTOR ADJUSTMENTS
 Contingency: 5.00% Profit: 8.00% Overhead: 8.00% Bond: 1.00%

Cubic Footage: 1,370,000 Square Footage: 137,000

CSI DETAIL

MCM Project Number: H&J-01-04

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF
08110 820 0100	Frames, steel, knock down, single, 16 ga., up to 5-3/4" deep, 7'-0" h x 3'-0" w	97.0	Ea.	97	\$3,579	\$12,003	\$0	\$15,582	160.84	0.11
08110 820 0140	Frames, steel, knock down, double, 16 ga., up to 5-3/4" deep, 7'-0" h x 6'-0" w	49.0	Ea.	56	\$2,071	\$7,457	\$0	\$9,528	194.46	0.07
08410 140 1100	Storefront Systems, aluminum frame, institutional grade, clear 3/8" plate glass, 6' x 7' door with hardware, 400 SF max wall, wall height to 12' high	3,600.0	S.F.	500	\$17,044	\$97,397	\$0	\$114,441	31.79	0.84
08520 100 0100	Windows, aluminum sash, stock, grade C, fixed casement, excl. glazing and trim	3,173.0	S.F.	254	\$9,989	\$51,702	\$0	\$61,701	19.45	0.45
08710 150 2800	Door hardware, school, single, interior, heavy use, incl. lever and closer	117.0	Door	117	\$0	\$79,136	\$0	\$79,135	676.37	0.58
08710 150 2850	Door hardware, school, stairway, single, interior	8.0	Door	8	\$0	\$7,747	\$0	\$7,747	966.44	0.06
08710 150 3800	Door hardware, toilet, public, single, interior	21.0	Door	21	\$0	\$4,487	\$0	\$4,487	213.67	0.03
08810 200 0050	Curtain Wall, aluminum, stock, single glazed, incl. glazing, average	3,017.0	S.F.	465	\$13,635	\$122,900	\$0	\$136,535	45.26	1.00
08	DOORS AND WINDOWS			1,765				\$487,367	3.56	
09	FINISHES									
09120 100 8300	Suspended Ceiling System, 1 1/2" carriers, 24" O.C. with 7/8" channels, 16" O.C., incl. carriers	8,400.0	S.F.	403	\$13,429	\$4,648	\$0	\$18,077	2.15	0.13
09130 100 0650	Ceiling Suspension System, class A, 15/16" T bar, 2' x 4' grid	121,822.0	S.F.	1,218	\$43,071	\$97,378	\$0	\$140,449	1.15	1.03
09250 700 0390	Gypsum wallboard, on walls, standard, w/compound skim coat (level 5 finish), 1/2" thick	145,734.0	S.F.	3,060	\$116,492	\$78,408	\$0	\$194,899	1.34	1.42
09250 5000 0400	Ceilings, gypsum drywall, fire rated, finished, screwed to grid, channel or joists, over 8' high, 5/8" thick	8,400.0	S.F.	218	\$8,393	\$3,874	\$0	\$12,267	1.46	0.09
09260 100 6400	Partition Wall, interior, fire resistant, 2 layers, 2 hour, taped both sides, installed on & incl. 25 ga. NLB metal studs, 3-5/8" wide, 16" O.C., 8' to 12' high, 5/8" gypsum drywall	19,225.0	S.F.	1,250	\$48,466	\$46,989	\$0	\$95,455	4.97	0.70
09310 100 5700	Ceramic tile, walls, interior, thin set, 8-1/2" x 4-1/4"	11,000.0	S.F.	924	\$24,687	\$58,337	\$0	\$83,024	7.55	0.61
09510 700 0300	Suspended Acoustic Ceiling Tiles, fiberglass boards, film faced, 2' x 2' or 2' x 4' x 5/8" thick	121,822.0	S.F.	1,584	\$59,925	\$149,812	\$0	\$209,737	1.72	1.53

Phase 01 - New

Phase 01 - New
FINISHES



MCM services

GENERAL CONTRACTOR ADJUSTMENTS

Contingency: 5.00% Profit: 8.00% Overhead: 8.00% Bond: 1.00%

Cubic Footage: 1,370,000 Square Footage: 137,000

CSI DETAIL

MCM Project Number:

H&J-01-04

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF
096201005600	Resilient Flooring, polyvinyl chloride, sheet goods for gyms, 3/8" thick	1,300.0	S.F.	173	\$4,197	\$6,415	\$0	\$10,611	8.16	0.08
09642 100 0700	Wood Strip Flooring, gym floor, in mastic, over 2 ply felt, #2 & better, 25/32" maple	12,000.0	S.F.	960	\$24,349	\$78,028	\$0	\$102,378	8.53	0.75
09642 100 2600	Wood Strip Flooring, maple, #2 & better, on rubber sleepers, with 1/2" subfloors, 25/32" thick	12,000.0	S.F.	1,260	\$31,912	\$107,911	\$0	\$139,824	11.65	1.02
09651 200 1500	Cove base, rubber or vinyl, standard colors, 1/8" thick, 4" h	15,292.0	L.F.	382	\$9,403	\$19,276	\$0	\$28,678	1.88	0.21
09658 100 7400	Resilient Flooring, vinyl composition tile, solid, 12" x 12" x 1/8"	99,925.0	S.F.	1,599	\$38,401	\$359,435	\$0	\$397,836	3.98	2.90
096731001900	Composition Flooring, epoxy terrazzo	9,709.0	S.F.	1,039	\$22,536	\$145,516	\$16,417	\$184,469	19.00	1.35
09680 800 3100	Carpet, commercial grades, direct cement, nylon, plush, 42 oz., medium to heavy traffic	2,435.0	S.Y.	278	\$6,738	\$93,577	\$0	\$100,315	41.20	0.73
09640 100 0200	Sound Absorbing Panels, perforated steel facing, painted w/ fiberglass or mineral filler, no backs, modular space units, ceiling or wall hung, white or colored	200.0	S.F.	16	\$615	\$4,289	\$0	\$4,904	24.52	0.04
09910 310 0140	Paints & Coatings, int. latex, doors, flush, both sides, roll & brush, primer + 2 coats, incl. frame & trim	164.0	Ea.	262	\$8,950	\$3,867	\$0	\$12,807	78.09	0.09
09910 920 1260	Paints & Coatings, walls & ceilings, interior, concrete, drywall or plaster, oil base, 3 coats, smooth finish, spray	216,582.0	S.F.	1,083	\$42,116	\$59,927	\$0	\$102,043	0.47	0.74
09	FINISHES			15,709				\$1,837,772	13.41	
10	SPECIALTIES									
10110 240 5500	Chalkboards, liquid chalk, white porcelain enamel, wall hung, deluxe units, aluminum trim & chalkfrough, 4' x 8'	86.0	Ea.	98	\$3,900	\$46,270	\$0	\$50,170	583.37	0.37
10165 100 5400	Urinal screen, floor mounted, plastic laminate on particle board	15.0	Ea.	30	\$1,167	\$5,995	\$0	\$7,183	478.84	0.05
10173 100 1050	Toilet cubicles, floor & ceiling anchored, phenolic	27.0	Ea.	86	\$3,445	\$35,731	\$0	\$40,176	1,488.01	0.29
10185 100 5240	Shower surround, fiberglass, 3 wall, 32" x 32", excludes plumbing	18.0	Ea.	36	\$1,425	\$8,052	\$0	\$9,477	528.49	0.07
10355 400 0400	Flagpoles, aluminum, tapered, ground set, 35' high, excludes base or foundation	1.0	Ea.	11	\$403	\$2,152	\$161	\$2,716	2,716.23	0.02

Phase 01 - New

Phase 01 - New
SPECIALTIES



MCM services

GENERAL CONTRACTOR ADJUSTMENTS

Contingency: 5.00% Profit: 8.00% Overhead: 8.00% Bond: 1.00%

Cubic Footage: 1,370,000 Square Footage: 137,000

CSI DETAIL

H&J-01-04

MCM Project Number:

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF
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Phase 01 - New

10355 400 7400	Flagpoles, foundations for flagpoles, to 35' h, includes excavation & concrete	1.0	Ea.	3	\$120	\$715	\$0	\$835	834.70	0.01
10505 500 0440	Lockers, steel, baked enamel, double tier box, 18" x 18" x 36"	900.0	Ea.	343	\$15,979	\$265,528	\$0	\$281,507	312.90	2.06
10505 500 2100	Locker, bench, laminated maple, top only	200.0	L.F.	16	\$744	\$3,936	\$0	\$4,679	23.40	0.03
10505 500 2200	Locker, bench, pedestals, steel pipe	58.0	Ea.	19	\$665	\$2,675	\$0	\$3,340	61.03	0.03
10535 200 7750	Walkway cover, steel, vinyl finish, to 12' w, .032", excl. foundations, maximum	2,500.0	S.F.	300	\$12,259	\$68,982	\$2,805	\$84,046	33.62	0.61
10810 100 0510	Bath accessories, dispenser units, soap & towel combination w/mirror & shelf	62.0	Ea.	50	\$1,954	\$31,928	\$0	\$33,881	546.47	0.25
10810 100 0800	Bath accessories, grab bars, straight, stainless steel, 24" long	8.0	Ea.	3	\$111	\$295	\$0	\$406	50.73	0.00
10810 100 1100	Bath accessories, grab bars, straight, stainless steel, 36" long	8.0	Ea.	3	\$127	\$332	\$0	\$459	57.34	0.00
10810 100 3100	Bath accessories, mirror, 36" x 24", with sst 3/4" square frame	62.0	Ea.	33	\$1,310	\$9,817	\$0	\$11,127	179.47	0.08
10810 100 4200	Bath accessories, sanitary napkin dispenser recessed	20.0	Ea.	11	\$423	\$9,684	\$0	\$10,107	505.35	0.07
10810 100 5000	Bath accessories, soap dispenser, stainless steel, recessed, liquid	62.0	Ea.	50	\$1,954	\$13,152	\$0	\$15,106	245.65	0.11
10810 100 5800	Bath accessories, shelf, stainless steel, 8" w x 24" long, #8 gauge	62.0	Ea.	23	\$696	\$4,527	\$0	\$5,423	87.47	0.04
10810 100 6200	Bath accessories, toilet tissue dispenser, stainless steel, surface mounted, double roll	62.0	Ea.	21	\$620	\$1,515	\$0	\$2,335	37.66	0.02
10810 100 7200	Bath accessories, towel shelf, stainless steel, 8" w x 24" long	18.0	Ea.	7	\$285	\$1,342	\$0	\$1,627	90.39	0.01
10	SPECIALTIES	SUBTOTAL		1,142				\$564,900	4.12	
11	EQUIPMENT									
11486 700 1400	Basketball backstops, school equipment, ceiling suspended, stationary, minimum	2.0	Ea.	41	\$1,414	\$5,360	\$0	\$6,794	3,397.21	0.05

Phase 01 - New
EQUIPMENT



MCM services

GENERAL CONTRACTOR ADJUSTMENTS
 Contingency: 5.00% Profit: 8.00% Overhead: 8.00% Bond: 1.00%

Cubic Footage: 1,370,000 Square Footage: 137,000

CSI DETAIL

MCM Project Number: H&J-01-04

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF
11485 700 1450	Basketball backstops, school equipment, ceiling suspended, fold up, with accessories	4.0	Ea.	160	\$5,634	\$32,485	\$0	\$37,969	9,492.21	0.28
11486 700 3700	Bleachers, telescoping, school equipment, manual, 21 to 30 tier	500.0	Seat	400	\$16,141	\$65,545	\$0	\$101,686	203.37	0.74
11486 700 4000	School equipment, bleachers, for integral power operation, add	500.0	Seat	32	\$1,514	\$24,499	\$0	\$26,013	52.03	0.19
11	EQUIPMENT	633						\$172,462		1.26
12	FURNISHINGS									
12310 200 0100	Display cases, free standing, all glass, aluminum frame, 70"H x 48"W x 18"D	4.0	Ea.	11	\$424	\$8,301	\$0	\$8,725	2,181.29	0.06
12310 750 3500	Casework, kitchen base cabinets,	100.0	L.F.	64	\$2,521	\$19,676	\$0	\$22,197	221.97	0.16
12310 750 5000	Casework, school cabinets, 24" deep, 84" high	90.0	L.F.	96	\$3,805	\$11,286	\$0	\$15,090	167.67	0.11
12310 750 5150	Casework, school cabinets, counter height units, 24" deep	645.0	L.F.	516	\$20,326	\$193,341	\$0	\$213,667	331.27	1.56
12483 200 0050	Floor mats, recessed, in-laid black rubber, perforated, 3/8" thick	256.0	S.F.	13	\$413	\$6,828	\$0	\$7,241	28.28	0.05
12492 100 0100	Blinds, interior, horizontal, solid color, custom, 1" aluminum slats	7,000.0	S.F.	126	\$4,412	\$4,433	\$0	\$38,845	5.55	0.28
12	FURNISHINGS	826						\$305,765		2.23
13	SPECIAL CONSTRUCTION									
13101 055 0400	Lighting Protection	137,000.0	SF	228	\$5,476	\$35,591	\$0	\$41,066	0.30	0.30
13128 500 0400	Grandstands, permanent	1,300.0	Seat	2,600	\$79,934	\$162,868	\$0	\$242,801	186.77	1.77
13720 065 0200	Security Detection System	137,000.0	SF	548	\$12,636	\$66,766	\$0	\$99,402	0.73	0.73
13838 200 0610	Fire Alarm System	137,000.0	SF	211	\$11,793	\$79,184	\$0	\$90,978	0.66	0.66

Phase 01 - New



MCM services

GENERAL CONTRACTOR ADJUSTMENTS

Contingency: 5.00% Profit: 3.00% Overhead: 8.00% Bond: 1.00%

Cubic Footage: 1,370,000 Square Footage: 137,000

CSI DETAIL

MCM Project Number: H&J-01-04

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF
13851 055 0200	Clock System	137,000.0	SF	274	\$6,318	\$43,172	\$0	\$49,490	0.36	0.36
13910 400 7160	FP - Standpipe connections, wall, with plugs & chains, single, flush, brass, 2-1/2" x 2-1/2"	21.0	Ea.	67	\$2,292	\$2,905	\$0	\$5,197	247.49	0.04
13930 400 1220	FP - Sprinkler System Components, alarm, water motor, complete with gong	21.0	Ea.	42	\$1,598	\$6,166	\$0	\$7,764	369.70	0.06
13930 400 3730	FP - Sprinkler System Components, sprinkler heads, standard spray, pendent or upright, brass, 135 to 286 degrees F, 1/2" NPT, 7/16" orifice, excl. supply piping	1,630.0	Ea.	815	\$30,945	\$17,038	\$0	\$47,983	29.44	0.35
13930 400 6260	FP - Sprinkler System Valve Alarm, 3" size, incl. retard chamber, trim, gauges & alarm line strainer	21.0	Ea.	112	\$3,809	\$27,600	\$0	\$31,410	1,495.70	0.23
13930 400 6640	FP - Sprinkler System Components, valves, check, swing, cast iron body, brass fittings, auto. ball drp, 6" size	21.0	Ea.	168	\$6,069	\$9,846	\$0	\$15,915	757.84	0.12
13930 400 8220	FP - Sprinkler System Components, valves, dry pipe, 4" size, incl. trim & gauges	22.0	Ea.	362	\$12,006	\$44,809	\$0	\$56,815	2,562.50	0.41
13 SPECIAL CONSTRUCTION		5,417						\$688,819		5.03
142101007100	CONVEYING SYSTEMS Elevators/Lifts, residential, cab type, 1 floor, 2 stop, max	1.0	Ea.	160	\$7,993	\$21,521	\$0	\$29,514	29,514.24	0.22
14 CONVEYING SYSTEMS		160						\$29,514		0.22
15 MECHANICAL										
15080 200 3160	HVAC - Insulation, ductwork, blanket type, fiberglass, flexible, FRK vapor barrier wrap, .75 lb. density, 1" thick	52,000.0	S.F.	2,382	\$61,549	\$27,178	\$0	\$88,727	1.71	0.65
15107 620 0580	FP - Pipe, steel, black, threaded, 1" diameter, schedule 40, Spec. A-53, includes coupling and clevis type hanger sized for covering, 10' OC	3,303.0	L.F.	499	\$17,415	\$11,272	\$0	\$28,687	8.69	0.21
15107 620 0590	FP - Pipe, steel, black, threaded, 1-1/4" diameter, schedule 40, Spec. A-53, includes coupling and clevis type hanger sized for covering, 10' OC	1,664.0	L.F.	300	\$9,362	\$6,906	\$0	\$16,268	9.78	0.12
15107 620 0600	FP - Pipe, steel, black, threaded, 1-1/2" diameter, schedule 40, Spec. A-53, includes coupling and clevis type hanger sized for covering, 10' OC	1,986.0	L.F.	397	\$12,486	\$9,403	\$0	\$21,889	11.02	0.16
15107 620 0610	FP - Pipe, steel, black, threaded, 2" diameter, schedule 40, Spec. A-53, includes coupling and clevis type hanger sized for covering, 10' OC	551.0	L.F.	138	\$4,320	\$3,354	\$0	\$7,674	13.93	0.06

Phase 01 - New

Phase 01 - New
MECHANICAL



MCM services

GENERAL CONTRACTOR ADJUSTMENTS

Contingency: 5.00% Profit: 8.00% Overhead: 8.00% Bond: 1.00%

Cubic Footage: 1,370,000 Square Footage: 137,000

CSI DETAIL

MCM Project Number:

H&J-01-04

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub.	Quote	Total	\$/Unit	\$/SF
15107 620 0620	FP - Pipe, steel, black, threaded, 2-1/2" diameter, schedule 40, Spec. A-53, includes coupling and clevis type hanger sized for covering, 10' OC	799.0	L.F.	256	\$7,983	\$8,291	\$0	\$0	\$16,274	20.37	0.12
15107 620 3350	FP - Pipe, steel, black, flanged, weld neck, 150 lb., 4" diameter, schedule 40, Spec. A-53, includes flange set, yoke & roll hangers, sized for covering, 10' OC	203.0	L.F.	125	\$3,932	\$5,508	\$802	\$802	\$10,242	50.45	0.07
15107 640 5100	FP - Elbow, 90 Deg., steel, malleable iron, black, straight, threaded, 150 lb., 1"	174.0	Ea.	107	\$3,745	\$794	\$0	\$0	\$4,539	26.09	0.03
15107 640 5120	FP - Elbow, 90 Deg., steel, malleable iron, black, straight, threaded, 150 lb., 1-1/2"	28.0	Ea.	22	\$702	\$278	\$0	\$0	\$979	34.97	0.01
15107 640 5510	FP - Tee, steel, malleable iron, black, straight, threaded, 150 lb., 1"	173.0	Ea.	173	\$5,984	\$1,106	\$0	\$0	\$7,090	40.98	0.05
15107 640 5520	FP - Tee, steel, malleable iron, black, straight, threaded, 150 lb., 1-1/4"	160.0	Ea.	183	\$5,657	\$1,845	\$0	\$0	\$7,502	46.88	0.05
15107 640 5530	FP - Tee, steel, malleable iron, black, straight, threaded, 150 lb., 1-1/2"	327.0	Ea.	403	\$12,567	\$4,700	\$0	\$0	\$17,267	52.80	0.13
15107 640 5540	FP - Tee, steel, malleable iron, black, straight, threaded, 150 lb., 2"	44.0	Ea.	64	\$1,995	\$1,079	\$0	\$0	\$3,074	69.87	0.02
15110 640 5550	FP - Tee, steel, malleable iron, black, straight, threaded, 150 lb., 2-1/2"	84.0	Ea.	149	\$4,713	\$4,455	\$0	\$0	\$9,168	109.14	0.07
15107 640 0400	FP - Tee, steel, cast iron, black, straight, flanged, standard weight, 4" pipe size, add 1 gasket and bolt set (material only) for each joint, includes make-up labor, excludes gasket & bolt sets	84.0	Ea.	259	\$8,393	\$29,278	\$0	\$0	\$36,671	436.56	0.27
15110 160 1110	FP - Valves, bronze, angle, rising stem, threaded, 150 lb., 2"	22.0	Ea.	16	\$561	\$9,097	\$0	\$0	\$9,659	439.02	0.07
15110 160 1910	FP - Valves, bronze, check, swing, regrounding disc, threaded, class 150, 2-1/2"	20.0	Ea.	21	\$661	\$6,702	\$0	\$0	\$7,363	366.16	0.05
15110 160 3450	FP - Valves, bronze, gate, non-rising stem, threaded, class 150, 1"	21.0	Ea.	9	\$307	\$1,259	\$0	\$0	\$1,566	74.55	0.01
15110 200 3680	FP - Valves, iron body, gate, OS&Y, flanged, 125 lb., 4"	20.0	Ea.	107	\$3,351	\$12,605	\$0	\$0	\$15,956	797.81	0.12
15411 700 3120	Urinal, wall hung, vitreous china, with hanger & self-closing valve, blowout type	15.0	Ea.	80	\$3,528	\$7,840	\$0	\$0	\$11,368	757.84	0.08
15411 700 3300	Urinal, wall hung, rough-in, supply, waste and vent	15.0	Ea.	85	\$3,758	\$2,306	\$0	\$0	\$6,064	404.28	0.04

Phase 01 - New

Phase 01 - New
MECHANICAL



MCM services

GENERAL CONTRACTOR ADJUSTMENTS
 Contingency: 5.00% Profit: 8.00% Overhead: 8.00% Bond: 1.00%

Cubic Footage: 1,370,000 Square Footage: 137,000

CSI DETAIL

MCM Project Number: H&J-01-04

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub.	Quote	Total	\$/Unit	\$/SF
15412 200 2820	Drinking fountain, wall mounted, non-recessed, stainless steel, dual level for handicapped type, single bubbler, for connection to cold water supply	10.0	Ea.	25	\$1,230	\$17,294	\$0	\$0	\$18,523	1,852.33	0.14
15412 200 3880	Drinking fountain, wall mounted, non-recessed, for connection to cold water supply, rough-in, supply and waste, add	10.0	Ea.	36	\$1,768	\$699	\$0	\$0	\$2,467	246.72	0.02
15418 450 4180	Lavatory, wall hung, porcelain enamel on cast iron, white, single bowl, 20" x 18", includes trim	62.0	Ea.	124	\$5,480	\$24,588	\$0	\$0	\$30,069	484.99	0.22
15418 450 6960	Lavatory, wall hung, rough-in, supply, waste and vent	62.0	Ea.	598	\$26,495	\$22,874	\$0	\$0	\$49,369	796.27	0.36
15418 500 4200	Shower, stall, rough-in, supply, waste and vent for above shower	18.0	Ea.	140	\$6,198	\$1,862	\$0	\$0	\$8,060	448.86	0.06
15418 600 2000	Sink, kitchen, counter top style, porcelain enamel on cast iron, single bowl, 24" x 21", includes faucet and drain	4.0	Ea.	11	\$604	\$1,347	\$0	\$0	\$1,951	462.70	0.01
15418 600 4960	Sink, kitchen, counter top style, rough-in, supply, waste and vent	4.0	Ea.	30	\$1,322	\$477	\$0	\$0	\$1,799	449.63	0.01
15418 600 7100	Sink, service, wall, porcelain enamel on cast iron, roll rim, 24" x 20", includes faucet and drain	4.0	Ea.	16	\$707	\$3,105	\$0	\$0	\$3,812	953.06	0.03
15418 600 8980	General Plumbing Misc	137,000.0	SF	69	\$31,589	\$147,417	\$0	\$0	\$179,007	1.31	1.31
15418 600 8960	Sink, service, wall, rough-in, supply, waste and vent	4.0	Ea.	49	\$2,183	\$1,875	\$0	\$0	\$4,058	1,014.55	0.03
15418 900 3100	Water closet, bowl only, wall hung, includes flush valve and seat	52.0	Ea.	143	\$6,355	\$29,576	\$0	\$0	\$35,931	690.97	0.26
15418 900 3200	Water closet, bowl only, wall hung, hospital type, slotted rim for bed pan, rough-in, supply, waste and vent	52.0	Ea.	325	\$14,388	\$23,820	\$0	\$0	\$38,209	734.78	0.28
15480 200 6280	Water heater	20.0	Ea.	80	\$3,351	\$22,166	\$0	\$0	\$25,518	1,275.88	0.19
155104008340	HVAC - Boiler, gas fired, natural or propane, cast iron, hot water, gross output, 6970 MBH, includes standard controls and insulated jacket	1.0	Ea.	359	\$10,963	\$101,455	\$0	\$0	\$112,408	112,407.75	0.82
156206000282	HVAC - Water chiller, centrifugal liquid chiller, packaged unit, water cooled, 450 ton, includes standard controls, excludes water tower	1.0	Ea.	290	\$8,455	\$203,679	\$0	\$0	\$212,134	212,133.60	1.55
156404002552	HVAC - Cooling tower, packaged unit, galvanized steel, blow through, centrifugal type, 450 ton, includes standard controls, excludes pumps and piping	1.0	Ea.	88	\$2,575	\$48,422	\$0	\$0	\$50,997	50,996.61	0.37

Phase 01 - New

Phase 01 - New
MECHANICAL



MCM services

GENERAL CONTRACTOR ADJUSTMENTS

Contingency: 5.00% Profit: 8.00% Overhead: 8.00% Bond: 1.00%

Cubic Footage: 1,370,000 Square Footage: 137,000

CSI DETAIL

MCM Project Number: H&J-01-04

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF
15810 100 0520	HVAC - Ductwork, fabricated rectangular, galvanized steel, includes fittings, joints, supports and allowance for a flexible connection, excludes insulation	120,000.0	Lb.	11,760	\$328,346	\$114,368	\$0	\$442,714	3.69	3.23
15850 300 1074	HVAC - Diffuser, aluminum, ceiling, rectangular, 1 to 4 way blow, includes opposed blade damper	1,000.0	Ea.	667	\$20,060	\$155,257	\$0	\$175,318	175.32	1.28
15880 700 5170	HVAC - Register, air return, ceiling or wall, fixed face blades, anodized aluminum, 45 Deg., 12" x 12", includes adjustable opposed blade damper	550.0	Ea.	244	\$7,313	\$32,973	\$0	\$40,286	73.25	0.29
15890 700 5171	Mechanical Control	137,000.0	SF	5	\$39,487	\$118,460	\$0	\$157,947	1.15	1.15
15	MECHANICAL	SUBTOTAL		20,853				\$1,918,520		14.00
16	ELECTRICAL									
161209000450	Wire, copper, stranded, 600 volt, 350 kcmil, type THW, in raceway	40.0	C.L.F.	178	\$9,162	\$16,233	\$0	\$25,395	634.86	0.19
16132 250 5280	Electrical Service	137,000.0	SF	1,370	\$49,490	\$226,391	\$0	\$275,881	2.01	2.01
16139 700 4300	Electrical Devices	137,000.0	SF	457	\$21,060	\$48,437	\$0	\$69,497	0.51	0.51
16150 275 0020	Basic Electrical Materials	137,000.0	SF	1,370	\$46,331	\$323,265	\$0	\$369,597	2.70	2.70
16410 800 0700	Electrical Equipment Connections	137,000.0	SF	685	\$35,801	\$82,133	\$0	\$117,934	0.85	0.85
16510 440 0300	Electrical Lighting	137,000.0	SF	2,404	\$46,331	\$323,265	\$0	\$369,597	2.70	2.70
16520 300 2600	Floodlights, exterior, high pressure sodium, 1000 watt, incl ballast and lamp, excl pole	40.0	Ea.	160	\$8,239	\$35,356	\$0	\$43,595	1,089.87	0.32
16520 300 3200	Light poles, anchor base, aluminum, 30' high, excl concrete bases	20.0	Ea.	154	\$7,809	\$42,273	\$1,706	\$51,788	2,589.41	0.38
16520 300 4000	Light poles, aluminum, bracket arms, 2 arm	20.0	Ea.	20	\$1,030	\$5,718	\$0	\$6,748	337.42	0.05
16620 840 0400	Intercom System	137,000.0	SF	457	\$8,845	\$84,442	\$0	\$73,288	0.53	0.53
16	ELECTRICAL	SUBTOTAL		7,254				\$1,403,319		10.24

Phase 01 - New



MCM services

GENERAL CONTRACTOR ADJUSTMENTS

Contingency: 5.00% Profit: 8.00% Overhead: 8.00% Bond: 1.00%

Cubic Footage: 1,370,000 Square Footage: 137,000

CSI DETAIL

H&J-01-04

MCM Project Number:

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/SF
Phase 01 - New									

Phase 01 - New

Phase 01 - New

SUBTOTAL

96.93

\$13,279,559

ESTIMATE GRAND TOTAL

\$13,279,559

96.93

PRELIMINARY

PROJECT: Renovation and Addition
 Van Buren High School
 Fort Smith, Arkansas

OWNER
 School District
 Van Buren High School
 Fort Smith, Arkansas

CONTRACTOR

DESIGNER
 Hight - Jackson Associates
 5201 Village Parkway, Suite 300
 Rogers, Arkansas 72757



GENERAL CONTRACTOR ADJUSTMENTS
 Contingency: 5.00% Profit: 8.00% Overhead: 8.00% Bond: 1.00%

Cubic Footage: 454,000 Square Footage: 45,400

CSI Summary

MCM Project Number: H&J-01-04

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub.	Quote	Total	\$/Unit	\$/SF
Phase 02 - Existing											
02	SITWORK			926					\$633,136	13.95	
16	ELECTRICAL			36					\$5,079	0.11	
									\$638,215	14.06	
Phase 02 - New											
01	GENERAL REQUIREMENTS			51					\$4,066	0.09	
02	SITWORK			984					\$120,377	2.65	
03	CONCRETE			2,396					\$270,974	5.97	
04	MASONRY			12,554					\$908,282	20.01	
05	METALS			2,499					\$734,315	16.17	
06	WOODS AND PLASTICS			154					\$10,284	0.23	
07	THERMAL AND MOISTURE PROTECTION			2,391					\$215,086	4.74	
08	DOORS AND WINDOWS			474					\$155,930	3.43	
09	FINISHES			5,442					\$638,765	14.07	
10	SPECIALTIES			614					\$310,887	6.85	
12	FURNISHINGS			1,045					\$263,507	5.80	
13	SPECIAL CONSTRUCTION			664					\$110,368	2.43	
15	MECHANICAL			6,638					\$657,439	14.48	
16	ELECTRICAL			2,305					\$435,779	9.60	
									\$4,836,058	106.52	
ESTIMATE GRAND TOTAL									\$5,474,273	120.58	

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 BY MCM SERVICES

PRELIMINARY

Phase 02 - New

PROJECT:

Renovation and Addition
Van Buren High School

Fort Smith, Arkansas

OWNER

School District
Van Buren High School
Fort Smith, Arkansas

CONTRACTOR

DESIGNER

Hight - Jackson Associates
5201 Village Parkway, Suite 300
Rogers, Arkansas 72757



MCM services

GENERAL CONTRACTOR ADJUSTMENTS

Contingency: 5.00% Profit: 8.00% Overhead: 8.00% Bond: 1.00%

Cubic Footage: 454,000 Square Footage: 45,400

CSI DETAIL

MCM Project Number: H&J-01-04

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF
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Phase 02 - Existing

02 SITEWORK

02220100500	Building demolition, small buildings or single buildings, steel, includes 20 mile haul, excludes salvage	215,490.0	C.F.	646	\$26,500	\$0	\$36,438	\$62,938	0.29	1.39
02303250100	Mobilization or demobilization, dozer, loader, backhoe or excavator, above 250 H.P., up to 50 miles	2.0	Ea.	5	\$195	\$0	\$470	\$665	332.80	0.01
023154324020	Excavating, bulk, open site, bank measure, common earth, 200 H.P., 50' haul, dozer	1,500.0	B.C.Y.	15	\$623	\$0	\$1,475	\$2,098	1.40	0.05
023154900550	Hauling, excavated or borrow material, loose cubic yards, 6 mile round trip, base wide rate, 12 C.Y. truck, highway haulers, excludes loading	1,750.0	L.C.Y.	242	\$8,850	\$0	\$20,041	\$28,892	16.51	0.64
025604206000	Underground duct banks, rigid galvanized steel, 2 @ 2" diameter, excludes excavation, backfill and cast in place concrete	200.0	L.F.	18	\$769	\$3,628	\$0	\$4,396	21.98	0.10
028200400400	Existing Light Renovation South	34,400.0	SF	0	\$0	\$0	\$359,582	\$359,582	10.45	7.92
028200800400	Existing Light Renovation North	16,700.0	SF	0	\$0	\$0	\$174,554	\$174,554	10.45	3.85
	SUBTOTAL			926				\$633,136		13.95

02 ELECTRICAL

161299000450	Wire, copper, stranded, 600 volt, 350 kcmil, type THW, in raceway	8.0	C.L.F.	36	\$1,832	\$3,247	\$0	\$5,079	634.86	0.11
	SUBTOTAL			36				\$5,079		0.11

16 ELECTRICAL

	Phase 02 - Existing							\$638,215		14.06
	Phase 02 - New									

01 GENERAL REQUIREMENTS

015407500900	Scaffolding, steel tubular, reg. rent, 1 use/mo, erect or dismantle, bldg ext, wall face, 8'-4" x 5' frames, 1 to 5 stories, excl. planks	30.0	C.S.F.	30	\$1,199	\$1,222	\$0	\$2,421	80.70	0.05
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Phase 02 - New
GENERAL REQUIREMENTS



MCM Services

GENERAL CONTRACTOR ADJUSTMENTS

Contingency: 5.00% Profit: 8.00% Overhead: 8.00% Bond: 1.00%

Cubic Footage: 454,000 Square Footage: 45,400

CSI DETAIL

MCM Project Number: H&J-01-04

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total
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Phase 02 - New

01540 750 0960	Scaffolding, steel tubular, reg. rent, 1 use/mo, erect or dismantle, bldg interior, wall face, 6'-4" x 5' frames, 16" to 40" H, excl. planks	20.0	C.S.F.	21	\$830	\$815	\$0	\$1,645
01 GENERAL REQUIREMENTS		SUBTOTAL		51				\$4,066
02 SITEWORK								
02310 100 0012	Fine grade, small area, to be paved with grader	1,233.0	S.Y.	49	\$2,028	\$0	\$1,857	\$3,886
02310 100 1100	Fine grade, fine grade for slab on grade, machine	5,044.4	S.Y.	76	\$3,179	\$0	\$2,947	\$6,126
02310 100 3300	Fine grade, slopes, gentle, gentle, finish grading	1,500.0	S.Y.	3	\$115	\$0	\$115	\$231
02315 110 1700	Backfill, bulk, 6" to 12" lifts, dozer backfilling, compaction with sheepfoot roller	7.5	E.C.Y.	0	\$5	\$0	\$13	\$18
02315 110 1700	Backfill, bulk, 6" to 12" lifts, dozer backfilling, compaction with sheepfoot roller	193.6	E.C.Y.	3	\$134	\$0	\$339	\$473
02315 462 1000	Excavating, structural, bank measure, bottom of excavation, hand trimming	250.0	S.F.	4	\$154	\$0	\$0	\$154
02315 462 1010	Excavating, structural, bank measure, slopes and sides, hand trimming	7,824.0	S.F.	133	\$4,811	\$0	\$0	\$4,811
02315 462 6035	Excavating, structural, bank measure, for spread and mat footings, elevator pits, and small building foundations, common earth, 3/4 C.Y. bucket, machine excavation, hydraulic backhoe	19.8	C.Y.	4	\$157	\$0	\$141	\$298
02315 520 0500	Fill, gravel fill, compacted, under floor slabs, 4" deep	45,400.0	S.F.	227	\$8,375	\$7,577	\$688	\$16,749
02315 610 0060	Excavating, trench or continuous footing, common earth, 1' to 4' deep, 1/2 C.Y. bucket, tractor loader/backhoe, excludes sheeting or dewatering	579.0	B.C.Y.	46	\$1,914	\$0	\$935	\$2,848
02750 300 0110	Concrete pavement, fixed form, unreinforced, 12" pass, 8" thick, small area, includes joints, finishing, and curing	1,223.0	S.Y.	78	\$3,008	\$47,940	\$2,500	\$53,448
02775 275 0910	Sidewalk, concrete, cast-in-place with 6 x 6 - W1.4 x W1.4 mesh, broomed finish, 3000 psi, 4" thick, excludes base	7,200.0	S.F.	288	\$11,511	\$13,503	\$0	\$25,013
02810 300 0960	Sprinkler irrigation system, for lawns, residential system, custom, 1-1/2" supply	3,000.0	S.F.	39	\$1,568	\$1,660	\$0	\$3,228
02920 400 0300	Sodding, bluegrass sod, on level ground, 1000 S.F.	3.0	M.S.F.	9	\$334	\$659	\$45	\$1,038

Phase 02 - New

SITEWORK



MCM Services

GENERAL CONTRACTOR ADJUSTMENTS

Contingency: 5.00% Profit: 8.00% Overhead: 8.00% Bond: 1.00%

Cubic Footage: 454,000 Square Footage: 45,400

CSI DETAIL

MCM Project Number: H&J-01-04

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF
02930 320 3300	Broadleaf evergreen shrubs, deciduous, hibiscus, B & B, 3' - 4', planted in prepared beds	10.0	Ea.	4	\$163	\$107	\$89	\$369	36.89	0.01
02930 410 0100	Deciduous trees, ash, B & B, 2" caliper, in prepared beds	5.0	Ea.	20	\$769	\$453	\$465	\$1,687	337.42	0.04
	02 SITEWORK			984				\$120,377		2.65
	03 CONCRETE									
03150 250 0050	Expansion joint, cold, keyed, 24 ga. X 4-1/2" high, includes stakes	300.0	L.F.	12	\$457	\$314	\$0	\$770	2.57	0.02
03150 250 3000	Expansion joint, polyethylene backer rod, 3/8" diameter	1,540.0	L.F.	26	\$1,018	\$95	\$0	\$1,113	0.72	0.02
03220 200 0100	Welded wire fabric, sheets, 6 x 6 - W1.4 x W1.4 (10 x 10) 21 lb. per C.S.F., A185	454.0	C.S.F.	207	\$9,142	\$7,293	\$0	\$16,435	36.20	0.36
03310 220 0200	Structural concrete, ready mix, normal weight, 3500 psi, includes material only	610.4	C.Y.	0	\$0	\$75,531	\$0	\$75,531	123.74	1.66
03310 240 3850	Structural concrete, in place, spread footing, over 5 C.Y., includes forms(4 uses), reinforcing steel, and finishing	14.0	C.Y.	19	\$732	\$2,260	\$6	\$2,998	214.12	0.07
03310 240 3950	Structural concrete, in place, continuous strip footing, 36" wide x 12" deep, includes forms(4 uses), reinforcing steel, and finishing	329.0	C.Y.	614	\$23,284	\$51,585	\$197	\$75,047	228.11	1.65
03310 240 4260	Structural concrete, in place, grade wall, 12" thick x 8" high, includes forms(4 uses), reinforcing steel, and finishing	87.5	C.Y.	272	\$10,693	\$15,410	\$1,419	\$28,522	325.96	0.63
03310 240 4520	Structural concrete, in place, handicap access ramp, railing both sides, 3' wide, includes forms(4 uses), reinforcing steel, and finishing	40.0	L.F.	132	\$5,104	\$9,961	\$100	\$15,164	379.10	0.33
03310 240 4521	Structural concrete, in place, Stoop	40.0	L.F.	132	\$5,104	\$9,961	\$100	\$15,164	379.10	0.33
03310 700 4350	Structural concrete, placing, slab on grade, pumped, 4" thick, excludes material	610.4	C.Y.	300	\$10,040	\$0	\$5,067	\$15,106	24.75	0.33
03360 300 0250	Concrete finishing, floors, monolithic, machine trowel finish	45,400.0	S.F.	681	\$25,124	\$0	\$0	\$25,124	0.55	0.55
	03 CONCRETE			2,396				\$270,974		5.97
	04 MASONRY									



MCM Services

GENERAL CONTRACTOR ADJUSTMENTS

Contingency: 5.00% Profit: 8.00% Overhead: 8.00% Bond: 1.00%

Cubic Footage: 454,000 Square Footage: 45,400

CSI DETAIL

MCM Project Number: H&J-01-04

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF
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Phase 02 - New

04070 420 0250	Grout, concrete masonry unit (CMU) cores, 8" thick, 0.258 C.F./S.F., pumped, excludes blockwork	12,822.5	S.F.	603	\$20,893	\$18,317	\$3,548	\$43,758	3.41	0.96
04810 184 0600	Concrete masonry unit (CMU), exterior, tooled joints both sides, lightweight, 2000 psi, 8" x 8" x 16", includes reinforcing alternate courses and foam inserts, excludes scaffolding	75,711.0	S.F.	7,041	\$257,206	\$304,923	\$0	\$562,130	7.42	12.38
04810 190 0450	Concrete masonry unit (CMU), intel, includes grout and 2-#4 reinforcing bars, excludes scaffolding	500.0	L.F.	60	\$2,068	\$4,957	\$354	\$7,379	14.76	0.16
04810 1000050	Red brick, veneer, running bond, T.L. lots, 6.75/S.F., 4" x 2-2 1/2" x 8", includes 3% brick and 25% mortar waste, excludes scaffolding	181.9	M	4,851	\$177,569	\$117,447	\$0	\$295,016	1,621.75	6.50
04 MASONRY		12,554						\$908,282		20.01
05 METALS										
05120 180 0020	Canopy framing, structural steel, 6" and 8" members	3,000.0	Lb.	33	\$1,430	\$4,335	\$138	\$5,903	1.97	0.13
05120 680 3220	Structural steel project, schools, 100-ton project, A36 steel, shop fabricated, incl shop primer, bolted connections, maximum	90.8	Ton	875	\$38,384	\$314,050	\$22,891	\$375,325	4,133.53	8.27
05210 500 0450	Open web bar joist, 40-ton job lots, 30' to 50' spans, K series, shop fabricated, incl shop primer, horizontal bridging, maximum	93.1	Ton	745	\$32,190	\$153,797	\$20,459	\$206,446	2,218.18	4.55
05310 300 2200	Metal decking, steel, open type, wide rib, galvanized, 50 to 500 Sq, 1-1/2" D, 22 ga	47,670.0	S.F.	334	\$13,923	\$57,890	\$1,466	\$73,278	1.54	1.61
05410 300 0300	Boxed headers/beam, galv CF joist/LB track for LB stud partition, double, 16 ga x 8" D	1,000.0	L.F.	89	\$3,474	\$7,532	\$0	\$11,006	11.01	0.24
05410 400 8800	Partition, galv LB studs, 14 ga x 6" W studs 16" O.C. x 20' H, incl galv top & bottom track, excl openings, headers, beams, bracing & bridging	1,060.0	L.F.	404	\$15,805	\$43,180	\$0	\$58,985	55.65	1.30
05520 700 0550	Railing, pipe, steel, galvanized, 2 rails, 1-1/2" dia	100.0	L.F.	20	\$815	\$2,490	\$66	\$3,371	33.71	0.07
05 METALS		2,499						\$734,315		16.17
06 WOODS AND PLASTICS										
06110 100 2740	Miscellaneous wood blocking, to steel construction	2.0	M.B.F.	114	\$4,381	\$1,691	\$0	\$6,072	3,035.97	0.13
06110 555 8000	Wood framing, roof curbs, untreated, 2" x 12"	2.0	M.B.F.	40	\$1,537	\$2,675	\$0	\$4,212	2,105.96	0.09
06 WOODS AND PLASTICS		154						\$10,284		0.23

Phase 02 - New
WOODS AND PLASTICS



MCM services

GENERAL CONTRACTOR ADJUSTMENTS

Contingency: 5.00% Profit: 8.00% Overhead: 8.00% Bond: 1.00%

Cubic Footage: 454,000 Square Footage: 45,400

CSI DETAIL

MCM Project Number: H&J-01-04

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF
07	THERMAL AND MOISTURE PROTECTION									
07210 950 0100	Wall or Ceiling Insulation, Non-Rigid, fiberglass, kraft faced, batts or blankets, 3-1/2" thick, R11, 23" wide	24,361.0	S.F.	122	\$3,745	\$7,884	\$0	\$11,609	0.48	0.26
07210 950 0160	Fiberglass insulation, kraft faced, batts or blankets for walls or ceilings, 6" thick, R19, 15" wide	15,313.0	S.F.	92	\$2,589	\$6,591	\$0	\$9,180	0.60	0.20
07220 700 1930	Roof Deck Insulation, install polystyrene insulation, 3" thick, R15, 15 PSI compressive strength	45,400.0	S.F.	363	\$9,073	\$43,269	\$0	\$52,342	1.15	1.15
07220 700 1940	Roof Deck Insulation, extruded polystyrene, 1" thick, R5, 25 PSI compressive strength	22,700.0	S.F.	114	\$2,792	\$13,260	\$0	\$16,051	0.71	0.35
07240 100 0130	Exterior Insulation Finish System, field applied, 4" EPS insulation, with 1/2" cement board sheathing	1,000.0	S.F.	182	\$4,458	\$5,534	\$569	\$10,561	10.56	0.23
07260 100 0800	Building Paper, polyethylene vapor barrier, standard, .006" thick, 9' x 400' roll	454.0	Sq.	98	\$2,812	\$1,738	\$0	\$4,550	10.02	0.10
07460 100 4900	Aluminum siding, multi story	6,000.0	S.F.	558	\$22,136	\$32,373	\$0	\$54,509	9.08	1.20
07510 700 0500	Felt, glass fibered, flashing membrane, #45	10.8	Sq.	5	\$188	\$340	\$0	\$529	48.96	0.01
07510 700 1700	Mop Felt	10.8	Sq.	3	\$103	\$74	\$24	\$200	18.55	0.00
07550 500 0040	Modified Bitumen Roofing, base sheet, #15 glass fiber felt, fully mopped to deck	454.0	Sq.	133	\$4,327	\$5,723	\$991	\$11,041	24.32	0.24
07550 500 0100	Aluminum flashing, flexible, mill finish, .032" thick	3,600.0	S.F.	198	\$6,917	\$6,198	\$0	\$13,115	3.64	0.29
07812 600 0400	Cementitious Fireproofing, sprayed mineral fiber or cementitious for fireproofing, beams, 1 hour rated, 1-3/8" thick, excl. tamping or canvas protection	24,062.0	S.F.	385	\$9,247	\$14,055	\$2,219	\$25,522	1.06	0.56
07840 100 0200	FP - Firestopping, metallic piping, insulated, through walls, 2" dia	10.0	Ea.	5	\$108	\$214	\$0	\$323	32.28	0.01
07920 800 2600	Caulking & Sealants, polysulfide compounds, in place, 1 or 2 component, 308 L.F per gal, 1/4" x 1/4"	2,425.0	L.F.	133	\$5,070	\$465	\$0	\$5,554	2.29	0.12
07	THERMAL AND MOISTURE PROTECTION									
08	DOORS AND WINDOWS									
	SUBTOTAL			2,391				\$215,086		4.74



MCM services

GENERAL CONTRACTOR ADJUSTMENTS

Contingency: 5.00% Profit: 8.00% Overhead: 5.00% Bond: 1.00%

Cubic Footage: 454,000 Square Footage: 45,400

CSI DETAIL

MCM Project Number: H&J-01-04

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF
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Phase 02 - New

08110 200 0120	Doors, commercial, steel, flush, full panel, hollow core, for vision lite, add	15.0	Ea.	\$0	\$1,164	\$0	\$0	\$1,164	77.63	0.03
08110 200 0640	Doors, commercial, steel, flush, full panel, hollow core, 20 ga., 3'-0" x 7'-0" x 1-3/4" thick	104.0	Ea.	\$3,597	\$30,215	\$0	\$0	\$33,812	325.12	0.74
08110 820 0100	Frames, steel, knock down, single, 16 ga., up to 5-3/4" deep, 7'-0" h x 3'-0" w	74.0	Ea.	\$2,730	\$9,157	\$0	\$0	\$11,887	160.84	0.26
08110 820 0140	Frames, steel, knock down, double, 16 ga., up to 5-3/4" deep, 7'-0" h x 6'-0" w	15.0	Ea.	\$634	\$2,283	\$0	\$0	\$2,917	194.46	0.06
08410 140 1100	Storefront Systems, aluminum frame, institutional grade, clear 3/8" plate glass, 6' x 7' door with hardware, 400 SF max wall, wall height to 12' high	933.0	S.F.	\$4,417	\$25,242	\$0	\$0	\$29,659	31.79	0.65
08520 100 0100	Windows, aluminum sash, stock, grade C, fixed casement, excl. glazing and trim	420.0	S.F.	\$1,324	\$6,844	\$0	\$0	\$8,167	19.45	0.18
08710 150 2600	Door hardware, school, single, interior, heavy use, incl. lever and closer	87.0	Door	\$0	\$58,844	\$0	\$0	\$58,844	676.37	1.30
08710 150 3600	Door hardware, toilet, public, single, interior	2.0	Door	\$0	\$427	\$0	\$0	\$427	213.67	0.01
08810 200 0050	Curtain Wall, aluminum, stock, single glazed, incl. glazing, average	200.0	S.F.	\$504	\$8,147	\$0	\$0	\$9,051	45.25	0.20
08 DOORS AND WINDOWS		SUBTOTAL		474				\$155,930		3.43
09 FINISHES										
09120 100 8300	Suspended Ceiling System, 1 1/2" carriers, 24" O.C. with 7/8" channels, 16" O.C., incl. carriers	3,000.0	S.F.	\$4,796	\$1,860	\$0	\$0	\$6,456	2.15	0.14
09130 100 0050	Ceiling Suspension System, class A, 15/16" T bar, 2' x 4' grid	41,601.0	S.F.	\$14,708	\$33,254	\$0	\$0	\$47,962	1.15	1.06
09250 700 0300	Gypsum wallboard, on walls, standard, w/compound skim coat (level 5 finish), 1/2" thick	30,626.0	S.F.	\$24,481	\$16,477	\$0	\$0	\$40,958	1.34	0.90
092506000400	Ceilings, gypsum drywall, fire rated, finished, screwed to grid, channel or joists, over 8' high, 5/8" thick	3,000.0	S.F.	\$2,998	\$1,383	\$0	\$0	\$4,381	1.46	0.10
09260 100 6400	Partition Wall, interior, fire resistant, 2 layers, 2 hour, taped both sides installed on & incl. 25 ga. NLB metal studs, 3 5/8" wide, 16" O.C., 8' to 12' high, 5/8" gypsum drywall	25,721.0	S.F.	\$64,643	\$62,866	\$0	\$0	\$127,709	4.97	2.81
09310 100 5700	Ceramic tile, walls, interior, thin set, 8-1/2" x 4-1/4"	1,200.0	S.F.	\$2,693	\$6,364	\$0	\$0	\$9,057	7.55	0.20



MCM Services

GENERAL CONTRACTOR ADJUSTMENTS

Contingency: 5.00% Profit: 8.00% Overhead: 8.00% Bond: 1.00%

Cubic Footage: 454,000 Square Footage: 45,400

CSI DETAIL

MCM Project Number: H&J-01-04

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF
09610 700 0300	Suspended Acoustic Ceiling Tiles, fiberglass boards, firm faced, 2' x 2' or 2' x 4' x 5/8" thick	41,601.0	S.F.	541	\$20,464	\$51,159	\$0	\$71,623	1.72	1.58
09642 100 0700	Wood Strip Flooring, floor, in mastic, over 2 ply felt, #2 & better, 25/32" maple	1,200.0	S.F.	96	\$2,435	\$7,803	\$0	\$10,238	8.53	0.23
09642 100 2600	Wood Strip Flooring, maple, #2 & better, on rubber sleepers, w/two 1/2" subfloors, 25/32" thick	1,200.0	S.F.	126	\$3,191	\$10,791	\$0	\$13,982	11.65	0.31
09651 200 1500	Cove base, rubber or vinyl, standard colors, 1/8" thick, 4" h	4,410.0	L.F.	110	\$2,712	\$5,559	\$0	\$8,270	1.88	0.18
09658 100 7400	Resilient Flooring, vinyl composition tile, solid, 12" x 12" x 1/8"	27,974.0	S.F.	448	\$10,750	\$100,624	\$0	\$111,374	3.98	2.45
09673 100 1900	Composition Flooring, epoxy terrazzo, chemical resistant, 1/4" thick, max	2,300.0	S.F.	246	\$5,389	\$34,472	\$3,889	\$43,700	19.00	0.96
09680 800 3100	Carpet, commercial grades, direct cement, nylon, plush, 42 oz., medium to heavy traffic	1,958.8	S.Y.	223	\$5,420	\$75,276	\$0	\$80,696	41.20	1.78
09840 100 0200	Sound Absorbing Panels, perforated steel facing, painted w/berglass or mineral filler, no backs, modular space units, ceiling or wall hung, white or colored	800.0	S.F.	64	\$2,460	\$17,155	\$0	\$19,615	24.52	0.43
09910 310 0140	Paints & Coatings, int. latex, doors, flush, both sides, roll & brush, primer + 2 coats, incl. frame & trim	104.0	Ea.	166	\$5,675	\$2,446	\$0	\$8,121	78.09	0.18
09910 920 1280	Paints & Coatings, walls & ceilings, interior, concrete, drywall or plaster, oil base, 3 coats, smooth finish, spray	73,486.0	S.F.	367	\$14,290	\$20,333	\$0	\$34,623	0.47	0.76
09 FINISHES				5,442				\$638,765		14.07
10 SPECIALTIES										
10110 240 5500	Chalkboards, liquid chalk, white porcelain enamel, wall hung, deluxe units, aluminum trim & chalktrough, 4' x 8'	32.0	Ea.	37	\$1,451	\$17,217	\$0	\$18,668	583.37	0.41
10155 100 5400	Urinal screen, floor mounted, plastic laminate on particle board	3.0	Ea.	6	\$237	\$1,199	\$0	\$1,437	478.84	0.03
10170 100 1050	Toilet cubicles, floor & ceiling anchored, phenolic	9.0	Ea.	29	\$1,148	\$12,244	\$0	\$13,392	1,498.01	0.29
10505 500 0440	Lockers, steel, baked enamel, double tier box, 18" x 18" x 36"	600.0	Ea.	229	\$10,653	\$177,085	\$0	\$187,738	312.90	4.14
10535 200 7750	Walkway cover, steel, vinyl finish, to 12' w. .032", excl. foundations, maximum	2,500.0	S.F.	300	\$12,259	\$68,962	\$2,805	\$84,046	33.62	1.85

Phase 02 - New



MCM services

GENERAL CONTRACTOR ADJUSTMENTS

Contingency: 5.00% Profit: 8.00% Overhead: 8.00% Bond: 1.00%

Cubic Footage: 454,000 Square Footage: 45,400

CSI DETAIL

MCM Project Number: H&J-01-04

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF
10810 100 0510	Bath accessories, dispenser units, soap & towel combination w/mirror & shelf	4.0	Ea.	3	\$126	\$2,060	\$0	\$2,186	546.47	0.05
10810 100 0600	Bath accessories, grab bars, straight, stainless steel, 24" long	2.0	Ea.	1	\$28	\$74	\$0	\$101	50.73	0.00
10810 100 1100	Bath accessories, grab bars, straight, stainless steel, 36" long	2.0	Ea.	1	\$32	\$83	\$0	\$115	57.34	0.00
10810 100 3100	Bath accessories, mirror, 36" x 24", with sst 3/4" square frame	4.0	Ea.	2	\$85	\$633	\$0	\$718	179.47	0.02
10810 100 4230	Bath accessories, sanitary napkin dispenser recessed	2.0	Ea.	1	\$42	\$98	\$0	\$1,011	505.35	0.02
10810 100 5000	Bath accessories, soap dispenser, stainless steel, recessed, liquid	4.0	Ea.	3	\$125	\$849	\$0	\$975	243.65	0.02
10810 100 5900	Bath accessories, shelf, stainless steel, 8" w x 24" long, 18 gauge	4.0	Ea.	1	\$58	\$292	\$0	\$350	87.47	0.01
10810 100 6200	Bath accessories, toilet tissue dispenser, stainless steel, surface mounted, double roll	4.0	Ea.	1	\$53	\$88	\$0	\$151	37.66	0.00
10	SPECIALTIES			614				\$310,887	6.85	
12	FURNISHINGS									
12310 200 0100	Display cases, free standing, all glass, aluminum frame, 70"H x 48"W x 18"D	2.0	Ea.	5	\$212	\$4,150	\$0	\$4,363	2,181.29	0.10
12310 750 5000	Casework, school cabinets, 24" deep, 84" high	240.0	L.F.	256	\$10,146	\$30,095	\$0	\$40,241	167.67	0.89
12310 750 5150	Casework, school cabinets, counter height units, 24" deep	48.0	L.F.	38	\$1,513	\$14,388	\$0	\$15,901	331.27	0.35
12492 100 0100	Blinds, interior, horizontal, solid color, custom, 1" aluminum slats	1,000.0	S.F.	18	\$630	\$4,919	\$0	\$5,549	5.55	0.12
125205502200	Seating, auditorium chair, veneer back, padded seat	1,000.0	Ea.	727	\$24,518	\$172,935	\$0	\$197,453	197.45	4.35
12	FURNISHINGS			1,045				\$263,507	5.80	
13	SPECIAL CONSTRUCTION									

Phase 02 - New



MCM services

GENERAL CONTRACTOR ADJUSTMENTS
 Contingency: 5.00% Profit: 8.00% Overhead: 8.00% Bond: 1.00%

Cubic Footage: 454,000 Square Footage: 45,400

CSI DETAIL

MCM Project Number: H&J-01-04

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF
13101 055 0400	Lightning Protection	45,400.0	SF	76	\$1,117	\$7,258	\$0	\$8,375	0.18	0.18
13720 065 0200	Security Detection System	45,400.0	SF	182	\$4,187	\$28,753	\$0	\$32,940	0.73	0.73
13838 200 0610	Fire Alarm System	45,400.0	SF	70	\$3,908	\$26,241	\$0	\$30,149	0.66	0.66
13851 065 0200	Clock System	45,400.0	SF	91	\$1,575	\$11,445	\$0	\$13,120	0.29	0.29
13910 400 7160	FP - Standpipe connections, wall, with plugs & chains, single, flush, brass, 2-1/2" x 2-1/2"	7.0	Ea.	22	\$764	\$968	\$0	\$1,732	247.48	0.04
13930 400 1220	FP - Sprinkler System Components, alarm, water motor, complete with gong	7.0	Ea.	14	\$533	\$2,055	\$0	\$2,588	369.70	0.06
13990 400 3730	FP - Sprinkler System Components, sprinkler heads, standard spray, pendent or upright, brass, 135 to 286 degrees F, 1/2" NPT, 7/16" orifice, excl. supply piping	270.0	Ea.	135	\$5,126	\$2,822	\$0	\$7,948	29.44	0.18
13990 400 6260	FP - Sprinkler System Valve Alarm, 3" size, incl. retard chamber, trim, gauges & alarm line strainer	7.0	Ea.	37	\$1,270	\$9,200	\$0	\$10,470	1,485.70	0.23
13990 400 6620	FP - Sprinkler System Components, valves, check, swing, cast iron body, brass fittings, auto. ball drip, 4" size	7.0	Ea.	37	\$1,270	\$1,775	\$0	\$3,045	435.03	0.07
13 SPECIAL CONSTRUCTION		SUBTOTAL		664				\$110,368	2.43	
15 MECHANICAL										
15060 200 3160	HVAC - Insulation, ductwork, blanket type, fiberglass, flexible, FRK vapor barrier wrap, .75 lb. density, 1" thick	17,160.0	S.F.	789	\$20,311	\$8,969	\$0	\$29,280	1.71	0.64
15107 620 0560	FP - Pipe, steel, black, threaded, 1" diameter, schedule 40, Spec. A-53, includes coupling and clevis type hanger sized for covering, 10' OC	1,094.0	L.F.	165	\$5,768	\$3,733	\$0	\$9,502	8.89	0.21
15107 620 0590	FP - Pipe, steel, black, threaded, 1-1/4" diameter, schedule 40, Spec. A-53, includes coupling and clevis type hanger sized for covering, 10' OC	551.0	L.F.	99	\$3,100	\$2,257	\$0	\$5,387	9.78	0.12
15107 620 0600	FP - Pipe, steel, black, threaded, 1-1/2" diameter, schedule 40, Spec. A-53, includes coupling and clevis type hanger sized for covering, 10' OC	658.0	L.F.	132	\$4,137	\$3,115	\$0	\$7,252	11.02	0.16
15107 620 0610	FP - Pipe, steel, black, threaded, 2" diameter, schedule 40, Spec. A-53, includes coupling and clevis type hanger sized for covering, 10' OC	183.0	L.F.	46	\$1,435	\$1,114	\$0	\$2,549	13.93	0.06
15107 620 0620	FP - Pipe, steel, black, threaded, 2-1/2" diameter, schedule 40, Spec. A-53, includes coupling and clevis type hanger sized for covering, 10' OC	265.0	L.F.	85	\$2,648	\$2,750	\$0	\$5,397	20.37	0.12

Phase 02 - New



MCM Services

GENERAL CONTRACTOR ADJUSTMENTS

Contingency: 5.00% Profit: 8.00% Overhead: 8.00% Bond: 1.00%

Cubic Footage: 454,000 Square Footage: 45,400

CSI DETAIL

MCM Project Number: H&L-01-04

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF
15107 620 3360	FP - Pipe, steel, black, flanged, weld neck, 150 lb., 4" diameter, schedule 40, Spec. A-53, includes flange set, yoke & roll hangers, sized for covering, 10' OC	67.0	L.F.	41	\$1,268	\$1,618	\$265	\$3,380	50.45	0.07
15107 640 5100	FP - Elbow, 90 Deg., steel, malleable iron, black, straight, threaded, 150 lb., 1"	60.0	Ea.	37	\$1,291	\$274	\$0	\$1,565	26.09	0.03
15107 640 5120	FP - Elbow, 90 Deg., steel, malleable iron, black, straight, threaded, 150 lb., 1-1/2"	9.0	Ea.	7	\$226	\$89	\$0	\$315	34.97	0.01
15107 640 5510	FP - Tee, steel, malleable iron, black, straight, threaded, 150 lb., 1"	57.0	Ea.	57	\$1,971	\$365	\$0	\$2,336	40.98	0.05
15107 640 5520	FP - Tee, steel, malleable iron, black, straight, threaded, 150 lb., 1-1/4"	53.0	Ea.	61	\$1,874	\$611	\$0	\$2,485	46.88	0.05
15107 640 5530	FP - Tee, steel, malleable iron, black, straight, threaded, 150 lb., 1-1/2"	108.0	Ea.	133	\$4,150	\$1,562	\$0	\$5,703	52.80	0.13
15107 640 5540	FP - Tee, steel, malleable iron, black, straight, threaded, 150 lb., 2"	14.0	Ea.	20	\$635	\$343	\$0	\$978	69.87	0.02
15107 640 5550	FP - Tee, steel, malleable iron, black, straight, threaded, 150 lb., 2-1/2"	28.0	Ea.	50	\$1,571	\$1,485	\$0	\$3,056	109.14	0.07
15107 660 0400	FP - Tee, steel, cast iron, black, straight, flanged, standard weight, 4" pipe size, add 1 gasket and bolt set (material only) for each joint, includes make-up labor, excludes gasket & bolt sets	28.0	Ea.	90	\$2,798	\$9,426	\$0	\$12,224	436.55	0.27
15110 160 1110	FP - Valves, bronze, angle, rising stem, threaded, 150 lb., 2"	7.0	Ea.	5	\$179	\$2,895	\$0	\$3,073	439.02	0.07
15110 160 1910	FP - Valves, bronze, check, swing, regrounding disc, threaded, class 150, 2-1/2"	7.0	Ea.	7	\$231	\$2,346	\$0	\$2,577	368.16	0.06
15110 160 3450	FP - Valves, bronze, gate, non-rising stem, threaded, class 150, 1"	7.0	Ea.	3	\$102	\$420	\$0	\$522	74.55	0.01
15110 200 3660	FP - Valves, iron body, gate, OS&Y, flanged, 125 lb., 4"	4.0	Ea.	21	\$670	\$2,521	\$0	\$3,191	797.81	0.07
15411 700 3120	Urinal, wall hung, vitreous china, with hanger & self-closing valve, blowout type	3.0	Ea.	16	\$708	\$1,668	\$0	\$2,274	757.84	0.05
15411 700 3300	Urinal, wall hung, rough-in, supply, waste and vent	3.0	Ea.	17	\$762	\$461	\$0	\$1,213	404.28	0.03
15412 200 2620	Drinking fountain, wall mounted, non-recessed, stainless steel, dual level for handicapped type, single bubbler, for connection to cold water supply	2.0	Ea.	5	\$246	\$3,459	\$0	\$3,705	1,852.33	0.08

Phase 02 - New



MCM services

Contingency: 5.00% Profit: 8.00% Overhead: 8.00% Bond: 1.00%

Cubic Footage: 454,000 Square Footage: 45,400

CSI DETAIL

MCM Project Number: H&J-01-04

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF
15412 200 3980	Drinking fountain, wall mounted, non-recessed, for connection to cold water supply, for rough-in, supply and waste, add	2.0	Ea.	7	\$354	\$140	\$0	\$493	246.72	0.01
15418 450 4180	Lavatory, wall hung, porcelain enamel on cast iron, white, single bowl, 20" x 18", includes trim	4.0	Ea.	8	\$354	\$1,586	\$0	\$1,940	484.99	0.04
15418 450 6860	Lavatory, wall hung, rough-in, supply, waste and vent	4.0	Ea.	39	\$1,709	\$1,476	\$0	\$3,185	796.27	0.07
15418 600 2000	Sink, kitchen, counter top style, porcelain enamel on cast iron, single bowl, 24" x 21", includes faucet and drain	1.0	Ea.	3	\$126	\$337	\$0	\$463	462.70	0.01
15418 600 4880	Sink, kitchen, counter top style, rough-in, supply, waste and vent	1.0	Ea.	7	\$330	\$119	\$0	\$450	449.63	0.01
15418 900 7100	Sink, service, wall, porcelain enamel on cast iron, roll rim, 24" x 20", includes faucet and drain	1.0	Ea.	4	\$177	\$776	\$0	\$953	953.06	0.02
15418 600 8960	Sink, service, wall, rough-in, supply, waste and vent	1.0	Ea.	12	\$546	\$469	\$0	\$1,015	1,014.55	0.02
15418 600 8980	General Plumbing Misc	45,400.0	SF	23	\$10,468	\$48,852	\$0	\$59,321	1.31	1.31
15418 900 3100	Water closet, bowl only, wall hung, includes flush valve and seat	9.0	Ea.	25	\$1,100	\$5,119	\$0	\$6,219	690.97	0.14
15418 900 3200	Water closet, bowl only, wall hung, hospital type, slotted rim for bed pan, rough-in, supply, waste and vent	9.0	Ea.	56	\$2,490	\$4,123	\$0	\$6,613	734.78	0.15
15480 200 6280	Water heater	2.0	Ea.	8	\$335	\$3,167	\$0	\$3,502	1,750.87	0.08
15730 600 1200	HVAC - Rooftop air conditioner, single zone, electric cool, gas heat, 20 ton cooling, 360 MBH heating, includes, standard controls, curb and economizer	8.0	Ea.	384	\$11,252	\$165,694	\$0	\$196,946	24,618.26	4.34
15810 100 0520	HVAC - Ductwork, fabricated rectangular, galvanized steel includes fittings, joints, supports and allowance for a flexible connection, excludes insulation	39,600.0	Lb.	3,681	\$108,354	\$37,741	\$0	\$146,095	3.69	3.22
15850 300 1074	HVAC - Diffuser, aluminum, ceiling, rectangular, 1 to 4 way blow, includes opposed blade damper	330.0	Ea.	220	\$6,620	\$51,235	\$0	\$57,855	175.32	1.27
15860 700 5170	HVAC - Register, air return, ceiling or wall, fixed face blades, anodized aluminum, 45 Deg., 12" x 12", includes adjustable opposed blade damper	165.0	Ea.	73	\$2,194	\$9,882	\$0	\$12,086	73.26	0.27
15850 700 5171	Mechanical Control	45,400.0	SF	2	\$13,085	\$39,256	\$0	\$52,342	1.15	1.15

Phase 02 - New



MCM Services

GENERAL CONTRACTOR ADJUSTMENTS
 Contingency: 5.00% Profit: 3.00% Overhead: 3.00% Bond: 1.00%

Cubic Footage: 454,000 Square Footage: 45,400

CSI DETAIL

MCM Project Number: H&J-01-04

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub.	Quote	Total	\$/Unit	\$/SF
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Phase 02 - New

15	MECHANICAL			6,638					\$657,439		14.48
16	ELECTRICAL										
16120 900 0920	FP - Wire, copper, solid, 600 volt, #14, type THWN-THHN, in raceway	53.0	C.L.F.	33	\$1,434	\$316	\$0		\$1,750	33.02	0.04
16132 205 2500	FP - Intermediate metal conduit, 1/2" diameter, to 15' high, incl 2 terminations, 2 elbows & 11 beam clamps per 100 LF	54.0	L.F.	4	\$188	\$149	\$0		\$337	6.24	0.01
16132 250 5260	Electrical Service	45,400.0	SF	454	\$16,400	\$75,023	\$0		\$91,423	2.01	2.01
16139 700 4300	Electrical Devices	45,400.0	SF	151	\$6,979	\$16,051	\$0		\$23,030	0.51	0.51
16150 275 0020	Basic Electrical Materials	45,400.0	SF	454	\$15,354	\$107,126	\$0		\$122,479	2.70	2.70
16410 800 0700	Electrical Equipment Connections	45,400.0	SF	227	\$11,864	\$27,218	\$0		\$39,082	0.86	0.86
16510 440 0300	Electrical Lighting	45,400.0	SF	797	\$16,051	\$107,126	\$0		\$123,177	2.71	2.71
16520 300 2800	Floodlights, exterior, high pressure sodium, 1000 watt, incl ballast and lamp, excl pole	4.0	Ea.	16	\$824	\$3,536	\$0		\$4,359	1,089.87	0.10
16520 300 3200	Light poles, anchor base, aluminum, 30' high, excl concrete bases	2.0	Ea.	15	\$781	\$4,227	\$171		\$5,179	2,588.41	0.11
16520 300 4000	Light poles, aluminum, bracket arms, 2 arm	2.0	Ea.	2	\$103	\$572	\$0		\$675	337.42	0.01
16620 840 0400	Intercom System	45,400.0	SF	151	\$2,831	\$21,355	\$0		\$24,287	0.53	0.53
16	ELECTRICAL			2,305					\$435,779		9.60
SUBTOTAL									\$4,836,058		106.52
SUBTOTAL									\$5,474,273		120.58

PRELIMINARY

PRELIMINARY

ESTIMATE GRAND TOTAL