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Joplin, MO 64801
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GLMVArchitecture

21-658 Joplin Fire Station 7

DESIGN DEVELOPMENT V3
Total Project Summary Worksheet - Opinion of Probable Costs (OPC)
2/10/2022

Description	Area		Cost	Cost/SF	Notes
Total Construction Opinion of Probable Costs	8,790	SF	$3,795,767.00	$431.83	Cost taken from provided itemized cost estimate.
Design Contingency *10%*			$379,576.70		
			$4,175,343.70	$475.01	
The following items are those normally provided by the owner during the course of the project. These cost are not included in the construction estimate.					
Site Acquisition Costs			$0.00		
Utility Relocation Costs			$0.00		
Hazardous Materials Abatement (if any)			$0.00		
Street Improvements			$0.00		
Special Assessments or Development Fees			$0.00		
Site Survey			$0.00		Site survey previously completed.
Soil Borings and Geotechnical Report			$10,900.00		
Design Milestone Estimating			$16,500.00		
Reimbursable Expenses			$8,000.00		Estimated.
Architect and Engineer's Fees			$255,000.00		
Drawing Reproduction Costs			$0.00		Included in Reimbursable Expenses.
Testing and Inspections			$25,000.00		Estimated.
Advertisement of Bids			$2,000.00		Estimated.
Building Review Fee, Building Permit Fee, Tap Fees, DNR Permit Fees, etc.			$25,000.00		Estimated.
Moving Expenses			$0.00		
Financing Costs			$0.00		
Legal Fees			$0.00		
Other Items			$0.00		
Identified Owner Furnished Owner Installed items:					
Refer to DD Milestone Equipment List					
Identified Owner Furnished Contractor Installed items (need confirmation):					
Refer to DD Milestone Equipment List					
Owner's Contingency		5%	$189,788.35		4% minimum owners contingency is required in the contract.
		Total Project Costs:	**$4,707,532.05**		

NOTICE TO THE OWNER

1. The preceding values are allowances only; actual costs may vary.

2. The budget represents the Architect's understanding of the Owner's budget and is not intended to be used as a formal accounting tool.

3. FF&E to be provided by Owner unless otherwise noted in Construction Documents or Contracts.

4. Project expenses are intended to alert the Owner that other expenses beyond construction are generally required in order to complete the entire project. There may be additional items not listed here and the Owner must identify and confirm all possible cost items and the amounts budgeted.

5. The Owner shall furnish all legal, insurance and accounting services, including additional services that may be reasonably necessary at any time for the Project to meet the Owner's needs and interests.

6. The Owner shall establish and periodically update the Owner's budget for the project, including the budget for the cost of work as defined in the Agreement between Owner and Architect, the Owner's other costs, and reasonable contingencies related to all of these costs. If thethe cost of the work, the Owner shall notify the Architect. The Owner and the Architect shall thereafter agree to a Owner significantly increased or decreases the Owner's budget for the cost of the work, the Owner shall notify the Architect. The Owner and the Architect shall thereafter agree to a corresponding change in the Project's scope and quality.

7. Reference also AIA Agreement between Owner and Architect.



Updated 100% DD
Joplin Fire Station #7

VERSION 3

Prepared By:
GLMV Architecture, Inc.

1525 E. Douglas
Wichita, Kansas 67211

Submittal Date: February 9, 2022

PROJECT INFORMATION

Designer: **- GLMV Architecture, Inc.**
Estimator: **Sky Hounschell**
Date of Report: **February 9, 2022**
Processing Software: **MII 4.4**
Work Breakdown Structure (WBS): **WBS**
Database: **MII English Cost Book 2021-C**
Method of Measurement: **US Standard**
Currency: **US $**

PROJECT SCOPE

No. of Buildings: **1**
Demolition: **NA**
Hazardous Materials: **NA**
Site: **NA**

Cost Estimate and Budget Disclaimer

Disclaimer: The Client understands that the Architect, in providing opinions of probable construction costs, has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's method of pricing, and that the Architect's opinions of probable construction costs are made on the basis of the Architect's professional judgment and experience. The Architect makes no warranty, express or implied, that the final bids or the negotiated cost of the Work will not vary from the Architect's opinion of probable construction cost.

Designed by
Paul Michell GLMV Architecture 816-444-4200
Estimated by
Sky Hounschell GLMV Architecture 316-265-9367

Design Document	Updated 100% DD
Document Date	2/9/2022
Budget Year	2022
UOM System	Original

Direct Costs

LaborCost
EQCost
MatlCost
SubBidCost

Timeline/Currency

Preparation Date	2/9/2022
Escalation Date	8/1/2022
Eff. Pricing Date	1/1/2022
Estimated Duration	365 Day(s)
Currency	US dollars
Exchange Rate	1.000000

Costbook CB22EN: 2022 MII English Cost Book

Labor MO2020004: MO20210049 09/10/2021

Equipment EP22R05: MII Equipment 2022 Region 05

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Plastic laminate countertops in dorm rooms, captains rooms and office ILO of Quartz One. 1
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Reduce number of refrigerators to 1 and fill in void with casework ILO of 3 2
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Description	UOM	Quantity	ProjectCost
Combined Building and Sitework			**3,795,767**
Primary Facilities			**3,041,574**
General Requirements			**134,695**
RSM 015213200250 Office Trailer, furnished, rent per month, 20' x 8', excl. hookups	EA	12.00	3,081
RSM 015213400120 Field Office Expense, office supplies, average	MO	12.00	1,277
USR Contract Closeout	MO	1.00	7,982
RSM 017413200050 Cleaning Up, cleanup of floor area, continuous, per day, during construction	MSF	8.52	366
USR Final Job Clean-Up	LS	1.00	5,188
RSM 017413200100 Cleaning Up, cleanup of floor area, final by GC at end of job	MSF	8.52	737
RSM 015213400140 Field Office Expense, telephone bill; avg. bill/month, incl. long dist.	MO	12.00	8,302
RSM 015813500020 Project Signs, sign, high intensity reflectorized, buy, excl. posts	SF	400.00	18,093
USR Insurance and Bond	LS	1.00	7,088
USR Mob and De- Mob	LS	1.00	13,304
USR Storage/Tool Trailer ($175/MON) (4)	MO	12.00	2,794
USR Pick-Up Truck 4X2 1/2-TON PICK-UP, 4900 GVW (4)	MO	12.00	8,780
MIL Assistant superintendent	EA	12.00	49,490
RSM 015113500880 Temporary electrical power equipment (pro-rated per job), connections, office trailer, 100 amp (4)	EA	12.00	3,934
RSM 015113800700 Temporary Utilities, temporary construction water bill per month, average	MO	12.00	4,278
Substructure			**158,065**
Slab On Grade			
Footings			
RSM 033113702600 Structural concrete, placing, spread footing, direct chute, over 5 C.Y., includes leveling (strike off) & consolidation, excludes material	CY	35.20	722
RSM 312323130500 Backfill and compact, by hand, 6" layers, air rammer/tamper, add	ECY	35.20	396
RSM 312323131900 Backfill, trench, up to 300' haul, dozer backfilling, excludes compaction	LCY	317.00	543
HNC 312316440205 Excavate and load, bank measure, medium material, 3/4 C.Y. bucket, wheeled loader	BCY	634.00	1,461
RSM 033113350480 Structural concrete, ready mix, heavyweight, high early, 3000 psi, includes local aggregate, sand, Portland cement (Type III) and water, delivered, excludes all additives and treatments	CY	35.20	5,926
RSM 031113455150 C.I.P. concrete forms, footing, spread, plywood, 4 use, includes erecting, bracing, stripping and cleaning	SFC	2,851.00	15,518
RSM 032111600600 Reinforcing steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	TON	3.90	8,345
HNC 051223775300 High strength bolts, in place, light reaming, 7/8" dia, average	EA	633.00	7,022
Standard Slab On Grade			
RSM 031516300100 Expansion joint, cold, keyed, 24 ga. X 5-1/2" high, includes stakes	LF	793.00	3,262
RSM 031505122400 Chamfer strip, polyvinyl chloride, 1" radius with leg	LF	11,703.00	23,981
RSM 033113704650 Structural concrete, placing, slab on grade, pumped, over 6" thick, includes leveling (strike off) & consolidation, excludes material	CY	188.00	4,394

Description	UOM	Quantity	ProjectCost
RSM 031516301100 Expansion joint, rubberized asphalt, fuel resistant, 1/2" x 1", hot applied	LF	793.00	1,343
RSM 032211100650 Welded wire fabric, plain, sheets, 4 x 4 - W2.9 x W2.9 (6 x 6) 61 lb. per C.S.F., ASTM A185, incl labor for accessories, excl material for accessories	CSF	10.55	956
RSM 033713300150 Rebar reinforcing, #4 bars, @ 12" each way	SF	5,845.00	23,695
RSM 031113651420 C.I.P. concrete forms, bulkhead for slab on grade w/ keyway, 7-1/2" high, exp metal, includes erecting, bracing, stripping and cleaning	LF	116.00	431
RSM 033516302000 Concrete finishing, floor, hardener, dry shake on fresh concrete, metallic, light service, 0.50 psf	SF	6,900.00	9,065
RSM 033513300200 Concrete finishing, fresh concrete flatwork, floors, basic finishing for unspecified flatwork, bull float, manual float & manual steel trowel, excl placing, striking off & consolidating	SF	6,900.00	6,390
RSM 072610100900 Vapor retarders, building paper, polyethylene vapor barrier, standard, 6 mil (.006" thick), 9' x 400' roll	SQ	69.00	1,263
RSM 312316161000 Structural excavation for minor structures, bank measure, bottom of excavation, hand trimming	SF	6,900.00	5,687
RSM 313116133000 Chemical termite control, soil poisoning (sterilization)	SF	6,900.00	4,940
RSM 033113350520 Structural concrete, ready mix, heavyweight, high early, 4000 psi, includes local aggregate, sand, Portland cement (Type III) and water, delivered, excludes all additives and treatments	CY	188.00	32,726
Superstructure			**315,331**
Roof Construction			
Structural Frame			
USR B1020010115 Cold-Formed Metal Truss	SF	10,433.00	277,975
Roof Decks and Slabs			
USR B1020030306 1-1/2" Galv. Metal Roof Deck, Open Type, F.P.	SF	9,932.00	37,356
Exterior Enclosure			**488,326**
Stucco			
RSM 072216100850 Gypsum cover board, primed fiberglass mat faced,1/2" thick, fastening excluded	SF	1,830.00	2,194
RSM 015423700200 Scaffolding, steel tubular, regular, labor only to erect & dismantle, building exterior, wall face, 6'-4" x 5' frames, 6 to 12 stories, excludes planks	CSF	1.83	441
RSM 040513300200 Mortar, masonry cement, 1:3 mix, type N	CF	128.00	1,420
RSM 096616100020 Scratch coat only	SF	1,830.00	6,011
RSM 047220100370 Expanded metal lath, diamond, galvanized, 2.5 #/S.Y., excludes scaffolding	SY	204.00	1,754
RSM 092423400015 Stucco, 3 coats, float finish	SY	204.00	9,505
Metal Studs (Exterior)			
RSM 092213130050 Furring, walls, galvanized, 1-1/2" channels, 16" O.C.	SF	5,680.00	32,043
Exterior Windows			
Storefront and Windows			
RSM 084313101050 Frames, aluminum, door, entrance, EFCO colonial white finish, storefront, 3' x 7' opening, with 3' high transom above	OPN	3.00	3,449
HNC 085113206680 Windows, aluminum, commercial grade, insect screen, EFCO colonial white	SF	217.00	4,553
NLU 087113201700 Door hardware, automatic openers, industrial, pnuematic, single swing door	EA	1.00	4,768

Description	UOM	Quantity	ProjectCost
RSM 084113201160 Tube framing, for window walls and storefronts, aluminum, stock, flush tube frame,EFCO colonial white, spandrel cover both faces, 2" wide	SF	382.00	45,583
Exterior Soffits			
USR 2010070801 Exterior Soffits and Canopies	SF	1,000.00	45,002
Brick			
RSM 015423700090 Scaffolding, steel tubular, regular, labor only to erect & dismantle, building exterior, wall face, 6'-4" x 5' frames, 1 to 5 stories, excludes planks	CSF	54.00	9,763
RSM 076510100060 Sheet metal flashing, aluminum, flexible, mill finish, .019" thick, including up to 4 bends	SF	770.00	3,557
RSM 040513300200 Mortar, masonry cement, 1:3 mix, type N	CF	526.30	5,840
RSM 040519160100 Masonry anchors, veneer wall ties, corrugated, galvanized, 24 ga., 7/8" x 7"	CCT	1.77	110
RSM 040523130120 Control joint, PVC, "T" shaped	LF	105.00	283
RSM 051223450020 Lintel angle, structural, unpainted, under 500 lb., shop fabricated	LB	362.00	860
RSM 042113140200 Brick veneer masonry, utility brick, truckload lots, 3.00/SF, includes 3% brick and 25% mortar waste, excludes scaffolding, grout and reinforcing	SF	5,400.00	96,001
CMU			
RSM 015423704150 Scaffolding, steel tubular, regular, labor only to setup & dismantle, 1 to 5 stories, excludes planks	CSF	80.59	14,570
RSM 040513300500 Mortar, masonry cement, 1/2:1:4 mix, type S	CF	513.00	5,509
RSM 040516300250 Grout, concrete masonry unit (CMU) cores, 8" thick, 0.258 CF/SF, pumped, excludes blockwork	SF	1,343.00	5,900
RSM 040519260060 Masonry reinforcing bars, #5 and #6 reinforcing steel bars, placed vertically, ASTM A615	LB	1,947.00	2,850
RSM 042210140450 Concrete block, back-up, normal weight, tooled joint one side, 2000 psi, 8" x 8" x 16", includes mortar, excludes scaffolding, horizontal reinforcing, vertical reinforcing and grout	SF	8,058.00	123,660
RSM 051223450020 Lintel angle, structural, unpainted, under 500 lb., shop fabricated	LB	451.00	1,072
RSM 071353101500 Elastomeric sheet waterproofing, neoprene sheets, plain, nylon reinforced, 45 mils thick	SF	8,058.00	35,227
Signage			
USR Building Signage	EA	1.00	26,399
Roofing			**118,208**
Roof Coverings			
Metal Roofing			
RSM 074113201050 Steel roofing panels, standing seam, painted finish, on substrate, 2" standing seam, 22 gauge	SF	10,750.00	75,457
Roof Insulation and Fill			
Rigid Insulation 6" Thick			
RSM 072216101745 Polyisocyanurate Insulation, for roof decks, 6" thick, R30.74, 2#/CF density	SF	10,400.00	26,102
Gutter			
RSM 077123300400 Aluminum gutters, stock units, enameled, 5" box, .032" thick	LF	557.00	5,018
RSM 077123105100 Aluminum downspouts, corrugated, 3"x 4" rectangular, 26 gauge	LF	200.00	1,812
Snow Guard			

Description	UOM	Quantity	ProjectCost
RSM 077253100400 Snow guards, double rail type, including pipe	LF	190.00	9,818
Interior Construction			**273,749**
Partitions			
RSM 054113304190 Partition, galvanized LB studs, 6" 20 Ga. studs 16" O.C. x incl galvanized top & bottom track, excl openings, headers, beams, bracing & bridging	LF	160.00	15,774
RSM 092216133180 Metal stud partition, non-load bearing, galvanized, 12'high, 2-1/2" wide, 20 gauge, 16" O.C., includes top & bottom track	SF	720.00	5,568
RSM 054113304150 Partition, galvanized LB studs, 3-5/8" 20 Ga. 16" O.C, incl galvanized top & bottom track, excl openings, headers, beams, bracing & bridging	LF	338.00	25,793
Exterior Wall Backup Construction			
USR B2010020310 5/8" Gypsum Board/Installed/Taped & Finished	SF	21,000.00	58,310
USR B2010020311 Paint to Gypsum Board Walls Using Roller	SF	21,000.00	26,788
RSM 072113100600 Wall insulation, rigid	SF	5,400.00	20,051
USR Acoustics Wall Blokker	SF	2,200.00	2,987
USR Inpro Palladium Rub Rails	PR	8.00	1,125
Doors			
Interior Doors			
3'0" X 7'0" HM Door			
RSM 099123350120 Paints & coatings, interior latex, doors, flush, both sides, roll & brush, finish coat, incl. frame & trim	EA	16.00	421
RSM 087120423110 Door hardware, mortise lockset, commercial, cast knobs and sectional trim, keyed, office/entrance/apartment, grade 1	EA	7.00	6,168
RSM 081313130700 Doors, commercial, steel, flush, full panel, hollow core, hollow metal, 20 ga., 3'-0" x 7'-0" x 1-3/4" thick	EA	7.00	7,860
RSM 081213133002 Frames, steel, knock down, hollow metal, 14 gauge, up to 5-3/4" D, 7'-0" H, 3'-0" W, single	EA	7.00	2,459
USR FEMA rated, 3'-0" x 7'-0" door	EA	1.00	3,807
3'0" X 7'0" Wood Door			
RSM 081213132800 Frames, steel, knock down, hollow metal, single, 14 ga., up to 3-7/8" deep, 3'-0" x 7'-0"	EA	15.00	4,778
RSM 099123350120 Paints & coatings, interior latex, doors, flush, both sides, roll & brush, finish coat, incl. frame & trim	EA	30.00	790
RSM 087120423110 Door hardware, mortise lockset, commercial, cast knobs and sectional trim, keyed, office/entrance/apartment, grade 1	EA	15.00	13,217
RSM 081433201100 Doors, wood, flush, birch, solid core, 1-3/4" x 7'-0" x 3'-0" wide	EA	15.00	13,745
6'0" X 7'0" Pair Doors			
HNC 099123550310 Paints & Coatings, misc. painting, wood surfaces, door & frame, painted finish	EA	4.00	271
HNC 087120408540 Door hardware, lockset, heavy duty, cylindrical, with sectional trim, brass base, entrance series, US26D	EA	2.00	834
RSM 087120900950 Door hardware, hinges, full mortise, high frequency, steel base, US26D, 3-1/2" x 3-1/2"	PR	2.00	87
RSM 081413103110 Doors, solid wood, decorator, pine, 1-3/4" thick stile and rail, 3'-0" x 7'-0", max	EA	2.00	2,547

Description	UOM	Quantity	ProjectCost
RSM 081213132840 Frames, steel, knock down, hollow metal, double, 14 ga., up to 3-7/8" deep, 7'-0" h x 6'-0" w	EA	1.00	378
Overhead Doors			
RSM 083613102800 Doors, overhead, commercial, stock, steel, heavy duty, sectional, chain hoist, 14' x 14' high	EA	6.00	37,586
RSM 087113201860 Door hardware, automatic openers, industrial duty, wall pushbuttons, jackshaft	EA	6.00	17,988
Interior Windows			
HNC 112216135650 Window, pass thru. painted steel, 36" x 48"	EA	1.00	4,415
Interior Finishes			**223,354**
Ceiling Finishes			
Acoustical Ceiling Tiles			
RSM 095123100300 Suspended acoustic ceiling tiles, fiberglass boards, film faced, 2' x 2' or 2' x 4' x 5/8" thick (USG Radar and ClimaPlus High NRC)	SF	3,256.00	30,402
Other Ceiling Finishes			
USR C3030900615 Paints & Coatings, Ceilings	SF	1,050.00	2,218
USR B2010020310 5/8" Gypsum Board/Installed/Taped & Finished	SF	1,021.00	2,835
Floor Finishes			
Carpet Tile			
RSM 096813100200 Carpet tile, tufted nylon, cushion back, 20 oz., 18" x 18"	SY	80.00	3,597
Other Flooring Finishes			
HNC 096513130730 Cove base, vinyl plastic, group 2, all (except white), 4" h, 1/8" thick	LF	1,000.00	4,383
RSM 096466102800 Athletic flooring	SF	430.00	13,117
Polished Floor Finishes			
RSM 033543100240 Polished concrete floors, processing of interior floors, grinding and edging with diamond/metal matrix, 200-grit, includes wet grinding, wet vac pick-up, auto scrubbing between grit changes	MSF	1.69	1,360
RSM 099113900480 Paints & coatings, concrete floors, smooth surface, second coat, waterproof sealer	SF	1,690.00	3,145
RSM 099113900520 Paints & coatings, concrete floors, porous, first coat, waterproof sealer	SF	1,690.00	3,473
RSM 099123720340 Paints & coatings, concrete, sealer coat	SF	110.00	219
Wall Finishes			
Tile and Terrazzo Wall Finishes			
RSM 093013106000 Porcelain tile, walls, interior, thin set, decorated tile	SF	1,280.00	13,716
RSM 093013107000 Porcelain tile, for epoxy grout, 1/16" joints, 4-1/4" tile, add	SF	1,280.00	2,031
Specialties			
Compartments, Cubicals			
USR C1030010102 Toilet Accessories	EA	4.00	10,082
USR C1030010106 Lavatory Accessories	EA	8.00	9,514
Identifying Devices			
USR C1030040402 Door Sign, 6" X 6"	EA	16.00	1,305

Description	UOM	Quantity	ProjectCost
Lockers			
RSM 105113100140 Lockers, PPE (OFCI)	EA	20.00	3,264
NLU 105713102400 Casework cabinet, w/door, baked enamel finish	EA	18.00	50,382
Casework			
Counters and Cabinets			
RSM 123223109560 Custom cabinets, rule of thumb: kitchen cabinets, wood, excl. counters & appliances	LF	108.00	46,927
RSM 123570131900 Casework, base cabinets, stainless steel counter top	LF	45.00	10,908
USR DalTile Quartz One Countertops	LF	73.00	10,475
Services			**1,322,498**
Fire Protection			**71,307**
Sprinklers And Releasing Devices			
USR D4040010102 Concealed Sprinkler Heads, Pipes & Fittings - Ord. Haz.	SF	8,475.00	54,837
Fire Alarm			
USR Fire Alarm Strobe	SF	8,475.00	5,637
USR Fire Alarm Manual Pull Station	EA	5.00	1,227
USR Fire Alarm Horn - ceiling mounted	EA	15.00	2,953
USR Fire Alarm System Programming	EA	1.00	6,652
Plumbing			**223,493**
Plumbing Fixtures			
Lavatories			
USR D2010030302 Wall Hung 18" By 15" White Single Bowl Lavatory	EA	3.00	5,524
USR D2010040402 S.S. Sink, Double Bowl 32 X 21 X 7	EA	2.00	3,678
RSM 224216406770 Sink, service, mop, molded stone, with rim, 3 sides, 24" x 36", includes faucet and drain	EA	2.00	1,298
RSM 224116163000 Sink, kitchen, counter top style, stainless steel, self rimming, single bowl	EA	1.00	1,195
RSM 224136100050 Porcelain enamel on cast iron, single compartment, round, drop-in, sink	EA	2.00	2,315
NLU 112713100350 Sink with stand, 16" deep	EA	1.00	3,783
Drinking Fountains			
USR D2010060606 Handicapped Type 8 GPM Water Cooler W/Rough In	EA	1.00	5,257
USR D2010060602 14 GPH Electric Water Cooler - Wall Mounted	EA	2.00	3,347
USR Bottle Filling Station, Non-Electric, Non-Filtered, Surface Mounted, add	EA	2.00	3,573
Waterclosets			
USR D2010010106 Wall Mounted Water Closet, White Vitreous China	EA	4.00	11,700
Showers			
RSM 220719106860 Insulation, pipe covering (price copper tube one size less than I.P.S.), fiberglass with all service jacket, 1" wall, 3/4" iron pipe size	LF	166.00	894
RSM 221113232140 Pipe, copper, tubing, solder, 1/2" diameter, type L, includes coupling & clevis hanger assembly 10' O.C.	LF	132.00	1,716

Description	UOM	Quantity	ProjectCost
RSM 221316203010 Pipe, cast iron soil, single hub, service weight, 2" diameter, push-on gasket joints 10' OC, includes clevis hanger assemblies 5' O.C.	LF	66.00	2,329
RSM 221316502820 Drain, shower, with strainer, uniform diameter trap, bronze top, 4" pipe size	EA	3.00	2,321
RSM 224123204200 Shower, stall, rough-in, supply, waste and vent for above shower	EA	3.00	3,103
RSM 224123405500 Shower, head, water economizer, 1.6 GPM	EA	3.00	283
RSM 224123405800 Shower, mixing valve, built-in	EA	3.00	909
Eye Wash Station			
HTW 019413201109 Eye wash stations	EA	1.00	8,898
OFCI Items			
USR Rough-ins	LS	1.00	15,569
Domestic Water Distribution			
Pipe & Fittings			
USR D2020010101 Copper Pipe & Fittings (1/2" to 4" Dia. Piping)	EA	15.00	32,208
Valves & Hydrants			
Valves & Hydrants	EA	30.00	17,303
Specialties			
USR D2020050502 Domestic Water Supply Specialties, 25.4 mm(1")	EA	6.00	5,515
USR D2020050503 Trap Primer Unit For Seldom Access Floor Drains	EA	1.00	76
Domestic Water Equipment			
USR D2020030106 Domestic Hot Water Heaters	EA	1.00	23,799
USR D2020030114 Water Heater & Circulating Pump	EA	1.00	22,053
Sanitary Waste			
Waste Pipe & Fittings			
USR D2030010101 Pipe, cast iron, assemblie	EA	21.00	34,653
Vent Pipe System			
USR D2030020202 Pipe, cast iron,Assemblie	EA	21.00	4,382
Floor Drains			
USR D2030030303 Medium Duty And Heavy Duty Cast Iron Floor Drains	EA	8.00	5,814
HVAC			**688,371**
Energy Supply			
Gas Supply System			
USR 1000 MBH Natural Gas Supply (Complete project cost)	EA	1.00	6,322
Heat Generating Systems			
Boilers			
USR D3020020313 Hot Water Boiler (2), Gas Fired complete w/ fittings	EA	1.00	101,795
Vav Box			
USR D3020030401 VAV Box - HW Reheat	EA	12.00	208,985
Cooling Generating Systems			

Description	UOM	Quantity	ProjectCost
Chilled Water Systems Remove			
USR D3030011102 15-ton packaged dx rooftop unit	EA	1.00	36,696
Distribution Systems			
Air Distribution, Heating & Cooling			
USR D3040011161 Ductwork, and insulation Commercial Building	LB	13,640.00	89,813
Hot Water Distribution Systems			
USR D3040031322 Piping Risers - Hot Water for Heating Supply & Return Piping (Medium Load)	LF	788.00	54,811
Other Distribution Systems			
USR D3040909001 Vehical Exhaust Ventilation System	EA	1.00	50,110
Controls & Instrumentation			
HVAC Controls			
USR D3060010181 Controls For Mech. Equipment Room Ventilation System	EA	1.00	1,025
USR D3060011102 Controls, Commercial HVAC Systems	EA	1.00	46,942
Other HVAC Systems & Equipment			
Other Special Mechanical Systems			
USR Radiant Floors	LS	4,050.00	91,873
Electrical, Lighting, Comm, And Security			**339,326**
Electrical			
Electrical Service & Distribution			
Main & Secondary Transformers			
USR D5010010152 Main Transformer, 600A Distribution	EA	1.00	35,158
USR D5010010255 120/208V Secondary - 3 Phase 4 Wire	EA	1.00	12,756
Switchboards & Panelboards			
USR D5010040581 Panel board 120/208V 100A	EA	2.00	8,638
USR D5010040582 Panel board 120/208V 225A	EA	1.00	7,416
Lighting & Branch Wiring			
Branch Wiring			
USR D5020010101 120 Volt, 20 Amp Duplex Receptacle - Stud Partition	EA	59.00	27,136
USR D5020010107 120 Volt, 15 Amp Duplex Ground Fault Receptacle	EA	16.00	7,281
USR D5020010129 400A 4 Pole W/P Generator Receptacle	EA	1.00	20,336
USR D5020010136 Equipment Connections For Up To 5 HP	EA	4.00	5,204
USR D5020010137 Equipment Connections For Up To 10 HP	EA	3.00	5,004
USR D5020010138 480 Volt Equipment Connections For Motors - 15 To 25 HP	EA	2.00	3,088
USR D5020010139 480 Volt Equipment Connections For Motors - 30 T0 40 HP	EA	3.00	5,805
Lighting Equipment			
USR D5020020201 Four Foot Strip LED Fixture	EA	7.00	4,290
USR D5020020202 2' X 4' Lay-In LED Fixture	EA	64.00	68,506
USR D5020020207 2' X 4' Lay-In LED Fixture With Emergency Unit	EA	14.00	16,983

Description	UOM	Quantity	ProjectCost
USR D5020020208 4' Industrial LED Fixture	EA	3.00	1,964
Other Lighting And Branch Wiring			
USR D5020909011 Fire Alarm Pull Station	EA	3.00	1,618
Fans			
RSM 233414102540 Fans, ceiling fan, extra quiet, 0.10" S.P., 210 CFM	EA	8.00	4,707
USR Big Ass Fan	EA	1.00	8,524
Public Address System Allowance			
Telecommunications Systems			
USR D5030010308 Phone/Data Drop (2 cable - 150' average)	EA	14.00	5,354
Public Address Systems			
USR D5030020401 Sound And Public Address	LS	1.00	10,870
Security Systems			
USR D5030050801 Card Reader Security System	EA	5.00	2,926
USR D5030050802 CCTV Security System	EA	1.00	3,317
USR D5030050807 Light Control System	EA	1.00	2,210
Other Electrical Services			
Grounding Systems			
USR D5090030302 Building Grounding	EA	4.00	3,208
Lightning Protection			
USR D5090040401 Lightning Protection System	EA	11.00	5,864
Generator			
RSM 263213132500 Generator set, natural gas, 3 phase 4 wire, 120/208 V, 150 kW, incl battery, charger, muffler	EA	1.00	59,294
RSM 275119102800 Annunciator, excl rough-in wires, cables & conduits	EA	1.00	1,870
Equipment			**7,348**
USR Capital Precision Series MCR488L (Range) (OFCI)	EA	1.00	221
USR LG LSXS26336D Side-by-Side Refrigerator (OFCI)	EA	3.00	650
USR Type 1 range hood with suppression (OFCI)	EA	1.00	4,266
USR LG LDT9965BD Built- in Dishwasher (OFC	EA	1.00	271
USR LG LMV2031BD2.0 cu. ft. Over-the-Range Microwave Oven (OFCI)	EA	1.00	284
USR Scotsman CU2026MA-1 Air-Cooled 200 LB Medium Cube Undercounter Ice Machine	EA	1.00	556
RSM 114251102980 Exhaust hood, commercial kitchen equipment, stainless steel, gutter on all sides, 4' x 4' x 7' (OFCI)	EA	1.00	1,100
Support Facilities			**754,194**
Paving, Walks, Curbs And Gutters			**273,397**
Concrete Parking & Pavement			

Description	UOM	Quantity	ProjectCost
RSM 031113655050 C.I.P. concrete forms, slab on grade, screed, wood, 2" x 4", includes stakes, erecting, bracing, stripping and cleaning	LF	1,148.00	3,775
RSM 032111600600 Reinforcing steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	TON	18.23	39,816
RSM 031516200160 Control joint, concrete floor slab, sawcut in green concrete, 2" depth	LF	6,380.00	4,774
RSM 033113701900 Structural concrete, placing, continuous footing, shallow, direct chute, includes leveling (strike off) & consolidation, excludes material	CY	734.00	16,057
RSM 033113350480 Structural concrete, ready mix, heavyweight, high early, 3500 psi, includes local aggregate, sand, Portland cement (Type III) and water, delivered, excludes all additives and treatments	CY	734.00	122,935
RSM 321723141310 Pavement markings, permanent thermoplastic tape, 12" width, including layout	LF	266.00	3,294
RSM 033923130300 Concrete surface treatment, curing, sprayed membrane compound	CSF	295.10	7,947
RSM 031516300500 Expansion joint, neoprene, liquid, 1/2" x 1", cold applied	LF	1,084.00	4,527
HNC 033923230205 Curing, burlap/poly blanket, 2 ply	CSF	295.10	15,686
RSM 321313230720 Concrete paving surface treatment, transverse contraction joints, saw cut and grind	LF	6,380.00	33,394
RSM 321713191100 Precast concrete parking bumpers, wheel stops, precast concrete, 8" x 13" x 6' - 0", includes 2 dowels per each	EA	1.00	267
RSM 321723141210 Pavement markings, handicap sign and post, 12" x 18"	EA	1.00	314
HNC 101453200580 Signs, stock, reflectorized, UTMCD standard, handicap parking sign, 12" x 18", with posts	EA	1.00	82
Concrete Sidewalk			
RSM 320610100350 Sidewalks, driveways, and patios, sidewalk, concrete, cast-in-place with 6 x 6 - W1.4 x W1.4 mesh, broomed finish, 3000 psi, 5" thick, excludes base	SF	2,825.00	16,537
RSM 031113470050 C.I.P. concrete forms, sidewalk, turn down	LF	133.00	3,992
Landscaping			**7,750**
Seeding			
RSM 329219130020 Seeding, mechanical seeding, 215 lb./acre	ACR	1.57	5,259
Irrigation Sleeves			
HNC 331113254620 Polyvinyl chloride, pipe, 4", schedule 40 pipe, excludes excavation or backfill	LF	200.00	2,490
Exterior Electrical Distribution			**49,514**
Ductbanks,Manholes,Handholes & Raceways			
5" PVC Ductbank			
RSM 337119151080 Electrical Underground Ducts and Manholes, PVC, with coupling, 5" diameter, schedule 40, installed by direct burial in slab or duct bank	LF	360.00	6,293
HNC 337119170900 Hand holes, precast concrete, with concrete cover, 3' x 3' x 4' deep, excludes excavation, backfill and cast in place concrete	EA	3.00	8,375
RSM 033113350460 Structural concrete, ready mix, heavyweight, high early, 3000 psi, includes local aggregate, sand, Portland cement (Type III) and water, delivered, excludes all additives and treatments	CY	18.30	3,013
HNC 312323131220 Backfill, trench, 40 - 60 H.P. front-end loader, excludes compaction	LCY	32.00	102
RSM 337119179960 Electrical Underground Ducts and Manholes, nylon polyethylene pull rope, 1/4"	LF	360.00	300

Description	UOM	Quantity	ProjectCost
HNC 337119155160 Elbows, plastic duct, type DB, 5" diameter, installed by direct burial in duct bank	EA	17.00	3,012
Communications			
RSM 033113350460 Structural concrete, ready mix, heavyweight, high early, 3000 psi, includes local aggregate, sand, Portland cement (Type III) and water, delivered, excludes all additives and treatments	CY	9.43	1,553
RSM 312316130060 Excavating, trench or continuous footing, common earth, 1/2 C.Y. excavator, 1' to 4' deep, excludes sheeting or dewatering	BCY	34.00	185
HTW 023223135745 Manhole covers, locking and watertight, 12" x 7.5"	EA	4.00	1,348
RSM 337119151050 Electrical Underground Ducts and Manholes, PVC, with coupling, 2" diameter, schedule 40, installed by direct burial in slab or duct bank	LF	120.00	637
RSM 337119175800 Electrical Underground Ducts and Manholes, underground duct banks ready for concrete fill, PVC, type EB, 6 @ 4" diameter, excludes excavation, backfill and cast in place concrete	LF	120.00	4,257
Exterior Lighting			
HNT Site lighting, includes light and pole	EA	3.00	20,439
Water, Sewer, Gas			**72,354**
Water			
Fire Line			
RSM 312316425610 Excavating, bulk bank measure,sandy clay/loam, open site, 1/2 C.Y. capacity = 44 C.Y./hour, backhoe, hydraulic, wheel mounted, excluding truck loading	BCY	1,692.00	5,316
RSM 310516100100 Aggregate for earthwork, bank run gravel, spread with 200 H.P. dozer, includes load at pit and haul, 2 miles round trip, excludes compaction	CY	124.00	4,768
RSM 331113252200 Public Water Utility Distribution Piping, piping Polyvinyl Chloride, 6" diameter, AWWA C900, Class 160, SDR 26, excludes excavation or backfill, unless specified	LF	120.00	5,110
HNC 331216105620 Post indicator valve, 8" adjustable valve, 5'-0" bury, includes mechanical joints, unless otherwise noted, excludes excavation and backfill	EA	1.00	2,129
HNC 331219101030 Fire hydrants, two way, breakable, 5'-0" depth, 8", includes mechanical joints, excludes excavation and backfill	EA	3.00	15,236
RSM 331216209160 Water Utility distribution Valve, 6" x 6" tapping valve, 6" valve box	EA	1.00	3,611
Domestic Water			
RSM 310516100100 Aggregate for earthwork, bank run gravel, spread with 200 H.P. dozer, includes load at pit and haul, 2 miles round trip, excludes compaction	CY	18.35	705
RSM 312316425610 Excavating, bulk bank measure,sandy clay/loam, open site, 1/2 C.Y. capacity = 44 C.Y./hour, backhoe, hydraulic, wheel mounted, excluding truck loading	BCY	22.15	70
RSM 331113254140 Water supply distribution piping, polyvinyl chloride pressure pipe, 2-1/2", ASTM D2241, class 200, SDR 21, includes trenching to 3' deep	LF	120.00	3,941
RSM 330516130520 Utility structures, water meter, excavation and backfill	EA	1.00	1,703
Gas			
LVC Gas, service line	LF	250.00	17,636
Sewer			
Sanitary Sewer			
Pipe (Existing Sewer Connections)			
RSM 333113254020 Public Sanitary Utility Sewerage Piping, piping DWV PVC, Sch 40, 10' length, 4" diameter, excludes excavation or backfill	LF	65.00	3,791

Description	UOM	Quantity	ProjectCost
HNC 334913101020 Manholes, concrete, cast in place, 4' diameter, 8" thick, 6' deep, excludes base, excavation, backfill, frame and cover	EA	1.00	6,908
RSM 312316145300 Excavating, chain trencher, utility trench, common earth, 18" pipe, hand excavate and trim for pipe bells after trench excavation, includes excavation and backfill	LF	65.00	1,295
RSM 310516100100 Aggregate for earthwork, bank run gravel, spread with 200 H.P. dozer, includes load at pit and haul, 2 miles round trip, excludes compaction	CY	3.00	135
Bollards			**33,258**
RSM 347113172700 Security vehicle barriers, pipe bollards, steel, concrete filled/painted, 8' L x 4' D hole, 8" diam.	EA	24.00	33,258
Grading			**63,839**
Grading			
Topsoil stripping and stockpiling			
RSM 311413230020 Topsoil stripping and stockpiling, topsoil, sandy loam, ideal conditions, 200 H.P. dozer	CY	2,672.00	3,793
Common Excavation & Disposal			
Cut & Fill			
HNC 312316463510 Excavating, bulk, open site, bank measure, medium material, 120 H.P. dozer, 150' push	BCY	2,145.00	20,094
RSM 312323235640 Compaction, 4 passes, 6" lifts, riding, sheepsfoot or wobbly wheel roller	ECY	1,650.00	2,111
RSM 312323170020 Fill, dumped material, spread, by dozer, excludes compaction	LCY	1,650.00	2,712
RSM 354113200050 Clay backfill material delivered, high cost, up to 20 miles haul distance (40 miles round trip for mobilization/demobilization crew), L.C.Y.	LCY	1,650.00	35,130
Monument Sign			**35,275**
USR Monument sign	EA	1.00	35,275
Erosion Control			**18,588**
Erosion Control			
RSM 312513101120 Erosion control, silt fence, polypropylene, 3' high, includes 7.5' posts	LF	3,040.00	10,701
RSM 312514160062 Synthetic erosion control, polyethylene, 3 dimensional geomatrix, 120 mil thick	SY	555.00	6,353
Site Construction Entrance			
RSM 321123238000 Base course drainage layers, prepare and roll sub-base, large areas over 2500 S.Y.	SF	136.00	10
RSM 321123230200 Base course drainage layers, aggregate base course for roadways and large paved areas, stone base, compacted, 3/4" stone base, to 9" deep	SY	137.00	1,524
Flag Pole			**15,554**
RSM 107516101300 Flagpoles, aluminum, tapered, ground set, counterbalanced, internal halyard, 40' high, excludes base or foundation	EA	1.00	10,557
RSM 033105704600 Structural concrete, placing, slab on grade, direct chute, over 6" thick, includes vibrating, excludes material	CY	2.00	32
RSM 033105350540 Structural concrete, ready mix, normal weight, high early, 4500 psi, includes local aggregate, sand, Portland cement and water, delivered, excludes all additives and treatments	CY	2.00	341
RSM 310660140980 Piling special costs, pre-augering, average soil, up to 30' deep, 60" diameter	LF	6.00	366
USR Flag pole lighters (2 fixtures)	EA	1.00	4,258

Description	UOM	Quantity	ProjectCost
Mechanical and Trash Enclosure			**36,709**
Slab On Grade			
RSM 033105350460 Structural concrete, ready mix, normal weight, high early, 3000 psi, includes local aggregate, sand, portland cement and water, delivered, excludes all additives and treatments	CY	14.00	2,027
RSM 321123238210 Base course drainage layers, aggregate base course for concrete slabs and capillary water barrier, 1" minus graded gravel, 6" compacted thickness	CY	14.00	3,295
RSM 032205500300 Welded wire fabric, sheets, 6 x 6 - W2.9 x W2.9 (6 x 6) 42 lb. per C.S.F., A185	CSF	8.80	586
RSM 031113653000 C.I.P. concrete forms, slab on grade, edge, wood, to 6" high, 4 use, includes erecting, bracing, stripping and cleaning	LF	122.00	456
RSM 033923130300 Concrete surface treatment, curing, sprayed membrane compound	CSF	8.80	237
RSM 033105704300 Structural concrete, placing, slab on grade, direct chute, up to 6" thick, includes vibrating, excludes material	CY	14.00	334
Wall Foundations			
1'0" X 3'0" Strip Footing 3000 PSI			
RSM 033053403950 Structural concrete, in place, continuous strip footing, 36" wide x 12" deep, includes forms(4 uses), reinforcing steel, and finishing	CY	18.00	5,538
Brick Veneer Wall			
RSM 001BLD0003010102 Brick Veneer Wall	SF	620.00	7,056
Exterior Masonry Walls CMU			
HNC 042210280430 Concrete masonry unit (CMU), high strength, hollow, 3500 psi, 8" x 8" x 16", includes mortar and horizontal joint reinforcing every other course, excludes scaffolding, grout and vertical reinforcing	SF	620.00	8,093
HNC 099113705310 Paints & Coatings, misc. painting, CMU, epoxy paint, 1 coat filler, 2 coats finish	SF	1,240.00	1,875
RSM 040516302000 Grout, for bond beams, lintels and concrete masonry unit (CMU) cores, C476, includes material only	CF	35.00	426
RSM 040519260015 Masonry reinforcing bars, #3 and #4 reinforcing steel bars, placed horizontally, ASTM A615	LB	1,500.00	2,823
RSM 040519050050 Anchor bolts, hooked type, 5/8" diameter x 12" long, includes nut and washer	EA	75.00	725
Stone Cap			
RSM 047210100300 Limestone coping, stock units, 12" wall, 4" thick, includes mortar, excludes scaffolding	LF	100.00	3,238
Unforeseen Site Conditions			**60,000**
USR Site Contingency	EA	1.00	60,000
Storm Sewer			**87,956**
USR Storm structure	EA	9.00	44,710
RSM 334113603960 Public storm utility drainage piping, slotted reinforced concrete pipe (RCP) class 4 O-ring, 18" diameter, excludes excavation or backfill	LF	600.00	34,069
NLU 313713101200 Rip-rap, sand- rockt rip rap	SY	45.00	2,684
HNC 334113602900 Reinforced concrete pipe (RCP), precast end section, 18" diameter pipe, excludes excavation or backfill	EA	12.00	6,493

Description	UOM	Quantity	ProjectCost
LIST OF POTENTIAL COST SAVINGS MEASURES			
Combined Bid Alternates			**118,630-**
1 **Sealed concrete floors (clear sealer) ILO polished concrete floors**			**4,645-**
Polished Floor Finishes			
RSM 033543100240 Polished concrete floors, processing of interior floors, grinding and edging with diamond/metal matrix, 200-grit, includes wet grinding, wet vac pick-up, auto scrubbing between grit changes	MSF	1.69-	1,428-
RSM 099113900480 Paints & coatings, concrete floors, smooth surface, second coat, waterproof sealer	SF	1,690.00-	3,137-
RSM 099113900520 Paints & coatings, concrete floors, porous, first coat, waterproof sealer	SF	1,690.00-	3,486-
Sealed Concrete			
RSM 099123720340 Paints & coatings, concrete, sealer coat	SF	1,690.00	3,406
2 **Omit the Big Ass fan**			**9,094-**
Fans			
USR Big Ass Fan	EA	1.00-	9,094-
3 **Plastic laminate countertops in dorm rooms, captains rooms and office ILO of Quartz One**			**5,559-**
RSM 123623130100 Countertops, stock, plastic laminate, 24" wide	LF	73.00	5,129
USR DalTile Quartz One Countertops	LF	73.00-	10,688-
4 **Omission of wardrobes in dorm rooms**			**20,859-**
RSM 123223109560 Custom cabinets, rule of thumb: kitchen cabinets, wood	LF	48.00-	20,859-
5 **Omission of rub rails**			**1,166-**
USR Inpro Palladium Rub Rails	PR	8.00-	1,166-
6 **Omission of Wall Blokker**			**3,060-**
USR Acoustics Wall Blokker	SF	2,200.00-	3,060-
7 **Omission of monument sign**			**39,743-**
USR Monument sign	EA	1.00-	39,743-
8 **Wood slat trash enclosure ILO a masonry enclosure**			**5,571-**
Wood Enclosure			
RSM 323129100070 Wood fences & gates, fence, treated, 3/8" x 4" boards, 2"x 4", includes metal post and post hole	LF	50.00	2,976
Brick Veneer Wall			
RSM 001BLD0003010102 Brick Veneer Wall	SF	270.00-	3,073-
Exterior Masonry Walls CMU			
HNC 042210280430 Concrete masonry unit (CMU), high strength, hollow, 3500 psi, 8" x 8" x 16", includes mortar and horizontal joint reinforcing every other course, excludes scaffolding, grout and vertical reinforcing	SF	270.00-	3,524-
HNC 099113705310 Paints & Coatings, misc. painting, CMU, epoxy paint, 1 coat filler, 2 coats finish	SF	540.00-	816-
RSM 040516302000 Grout, for bond beams, lintels and concrete masonry unit (CMU) cores, C476, includes material only	CF	13.00-	158-
RSM 040519260015 Masonry reinforcing bars, #3 and #4 reinforcing steel bars, placed horizontally, ASTM A615	LB	390.00-	734-

Description	UOM	Quantity	ProjectCost
RSM 040519050050 Anchor bolts, hooked type, 5/8" diameter x 12" long, includes nut and washer	EA	25.00-	242-
9 **Reduce number of refrigerators to 1 and fill in void with casework ILO of 3**			**2,176**
USR LG LSXS26336D Side-by-Side Refrigerator (OFCI)	EA	2.00-	431-
RSM 123223109560 Custom cabinets, rule of thumb: kitchen cabinets, wood, excl. counters & appliances	LF	6.00	2,607
10 **Asphalt shingles ILO standing seam**			**31,109-**
Metal Roofing			
RSM 074113201050 Steel roofing panels, standing seam, painted finish, on substrate, 2" standing seam, 22 gauge	SF	10,750.00-	76,578-
Asphalt Roof Shingles			
RSM 073113100460 Asphalt shingles, premium, laminated multi-layered shingles, class A, 30 year architectural	SQ	107.50	45,470