

SP Required SP Provided	MCKNIGHT COMMUNITY TRAIL CITY OF SPRINGFIELD PRELIMINARY COST ESTIMATE (PROJECT FILE NO. 608157) Length of Project = 8,894 feet or 1.684 miles					
	Item No.	Qty.	Unit	Item Description	Unit Price	Amount
*	100.	1	LS	SCHEDULE OF OPERATIONS - FIXED PRICE \$52,500	\$60,000.00	\$ 60,000.00
	101.	3	A	CLEARING AND GRUBBING	\$40,000.00	\$ 120,000.00
	102.1	500	FT	TREE TRIMMING	\$17.00	\$ 8,500.00
*	102.511	30	EA	TREE PROTECTION - AROMRING AND PRUNING	\$250.00	\$ 7,500.00
*	102.521	700	FT	TREE AND PLANT PROTECTION FENCE	\$8.00	\$ 5,600.00
	103.	40	EA	TREE REMOVED - DIAMETER UNDER 24 INCHES	\$1,000.00	\$ 40,000.00
	104.	12	EA	TREE REMOVED - DIAMETER 24 INCHES AND OVER	\$2,300.00	\$ 27,600.00
	120.1	2,250	CY	UNCLASSIFIED EXCAVATION	\$50.00	\$ 112,500.00
	121.	20	CY	CLASS A ROCK EXCAVATION	\$130.00	\$ 2,600.00
	123.	300	CY	MUCK EXCAVATION	\$70.00	\$ 21,000.00
	141.1	80	CY	TEST PIT FOR EXPLORATION	\$110.00	\$ 8,800.00
	146.	1	EA	DRAINAGE STRUCTURE REMOVED	\$750.00	\$ 750.00
	150.	500	CY	ORDINARY BORROW	\$35.00	\$ 17,500.00
	150.1	500	CY	SPECIAL BORROW	\$45.00	\$ 22,500.00
	151.	2,250	CY	GRAVEL BORROW	\$55.00	\$ 123,750.00
	170.	10,000	SY	FINE GRADING AND COMPACTING - SUBGRADE AREA	\$7.00	\$ 70,000.00
*	180.01	1	LS	ENVIRONMENTAL HEALTH AND SAFETY PROGRAM	\$6,000.00	\$ 6,000.00
*	180.02	200	HR	PERSONNEL PROTECTION LEVEL C UPGRADE	\$11.00	\$ 2,200.00
*	180.03	200	HR	LSP SREVICES	\$140.00	\$ 28,000.00
*	181.11	100	TON	DISPOSAL OF UNREGULATED SOIL	\$55.00	\$ 5,500.00
*	181.12	100	TON	DISPOSAL OF REGULATED SOIL - IN-STATE FACILITY	\$90.00	\$ 9,000.00
*	181.13	50	TON	DISPOSAL OF REGULATED SOIL - OUT-OF-STATE FACILITY	\$140.00	\$ 7,000.00
*	181.14	50	TON	DISPOSAL OF HAZARDOUS WASTE	\$500.00	\$ 25,000.00
	201.	2	EA	CATCH BASIN	\$4,500.00	\$ 9,000.00
	220.	12	EA	DRAINAGE STRUCTURE ADJUSTED	\$500.00	\$ 6,000.00
	220.5	1	EA	DRAINAGE STRUCTURE REMODELED	\$1,000.00	\$ 1,000.00
	220.7	3	EA	SANITARY STRUCTURE ADJUSTED	\$500.00	\$ 1,500.00
	222.1	1	EA	FRAME AND GRATE MASSDOT CASCADE TYPE	\$975.00	\$ 975.00
*	223.1	2	EA	FRAME AND GRATE (OR COVER) REMOVED AND STACKED	\$100.00	\$ 200.00
	252.112	1	EA	12 INCH CORRUGATED PLASTIC PIPE FLARED END	\$1,000.00	\$ 1,000.00
	252.12	20	FT	12 INCH CORRUGATED PLASTIC PIPE	\$95.00	\$ 1,900.00
	258.	15	SY	STONE FOR PIPE ENDS	\$80.00	\$ 1,200.00
	269.06	190	FT	6 INCH SLOT-PERFORATED CORRUGATED PLASTIC PIPE (SUBDRAIN)	\$80.00	\$ 15,200.00
	358.	6	EA	GATE BOX ADJUSTED	\$275.00	\$ 1,650.00
*	415.3	1,300	SY	PAVEMENT MICRO MILLING	\$9.50	\$ 12,350.00
*	431.1	10	CY	HIGH EARLY STRENGTH CEMENT CONCRETE BASE COURSE	\$245.00	\$ 2,450.00
	440.	18,000	LB	CALCIUM CHLORIDE FOR ROADWAY DUST CONTROL	\$0.45	\$ 8,100.00
	443.	70	MGL	WATER FOR ROADWAY DUST CONTROL	\$58.00	\$ 4,060.00
*	452.	1,100	GAL	ASPHALT EMULSION FOR TACK COAT	\$10.00	\$ 11,000.00
*	453.	2,000	FT	HMA JOINT SEALANT	\$1.45	\$ 2,900.00
*	450.23	900	TON	SUPERPAVE SURFACE COURSE - 12.5 (SSC - 12.5)	\$120.00	\$ 108,000.00
*	450.32	1,300	TON	SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC - 19.0)	\$120.00	\$ 156,000.00
*	450.42	220	TON	SUPERPAVE BASE COURSE - 37.5 (SBC - 37.5)	\$120.00	\$ 26,400.00
	470.	10	TON	HOT MIX ASPHALT BERM, TYPE A	\$250.00	\$ 2,500.00
	472.	40	TON	HOT MIX ASPHALT FOR MISCELLANEOUS WORK	\$250.00	\$ 10,000.00
	504.	1,500	FT	GRANITE CURB TYPE VA4 - STRAIGHT	\$50.00	\$ 75,000.00
	504.1	200	FT	GRANITE CURB TYPE VA4 - CURVED	\$57.00	\$ 11,400.00

Consider adding a small amount for Item 451 HMA for Patching in case patches are needed in the milled surface prior to paving

Typical sections list HMA Sidewalks and Driveways. Item 702 is not listed below.

SP Required SP Provided		MCKNIGHT COMMUNITY TRAIL CITY OF SPRINGFIELD PRELIMINARY COST ESTIMATE (PROJECT FILE NO. 608157) Length of Project = 8,894 feet or 1.684 miles					
		Item No.	Qty.	Unit	Item Description	Unit Price	Amount
		509.	200	FT	GRANITE TRANSITION CURB FOR WHEELCHAIR RAMPS - STRAIGHT	\$55.00	\$ 11,000.00
		580.	50	FT	CURB REMOVED AND RESET	\$40.00	\$ 2,000.00
*		590.	1,500	FT	CURB REMOVED AND STACKED	\$15.00	\$ 22,500.00
*		655.001	1,850	FT	TIMBER FENCE	\$55.00	\$ 101,750.00
*		697.1	17	EA	SILT SACK	\$155.00	\$ 2,635.00
*		698.5	90	SY	PERMEABLE PAVING UNIT	\$200.00	\$ 18,000.00
		701.	500	SY	CEMENT CONCRETE SIDEWALK	\$80.00	\$ 40,000.00
		701.2	100	SY	CEMENT CONCRETE WHEELCHAIR RAMP	\$110.00	\$ 11,000.00
*		707.1	8	EA	PARK BENCH	\$1,750.00	\$ 14,000.00
*		707.11	12	EA	TRAILHEAD GRANITE BLOCKS	\$2,000.00	\$ 24,000.00
*		707.12	30	EA	BOULDERS	\$500.00	\$ 15,000.00
*		707.2	4	EA	TRASH RECEPTACLE	\$1,250.00	\$ 5,000.00
*		707.21	4	EA	DOG WASTE STATION	\$800.00	\$ 3,200.00
*		707.9	8	EA	BICYCLE RACK	\$1,000.00	\$ 8,000.00
*		708.1	1	LS	TRAILHEAD KIOSK	\$5,000.00	\$ 5,000.00
		711.	4	EA	BOUND REMOVED AND RESET	\$550.00	\$ 2,200.00
		715.	4	EA	RURAL MAIL BOX REMOVED AND RESET	\$275.00	\$ 1,100.00
*		740.	22	MO	ENGINEERS FIELD OFFICE AND EQUIPMENT (TYPE A)	\$ 3,800.00	\$ 83,600.00
		748.	1	LS	MOBILIZATION	\$ 225,000.00	\$ 225,000.00
		751.	1,700	CY	LOAM BORROW	\$65.00	\$ 110,500.00
*		755.44	2,400	SY	INLAND WETLAND REPLICATION AREA	\$60.00	\$ 144,000.00
*		755.45	600	SY	WETLAND RESTORATION	\$55.00	\$ 33,000.00
*		756.	1	LS	NPDES STORMWATER POLLUTION PREVENTION PLAN	\$4,000.00	\$ 4,000.00
		765.	15,000	SY	SEEDING	\$1.99	\$ 29,850.00
*		765.421	1,000	SY	SEEDING - MID-HEIGHT UPLAND MIX	\$4.00	\$ 4,000.00
*		767.121	6,000	FT	SEDIMENT CONTROL BARRIER	\$7.00	\$ 42,000.00
		774.642	8	EA	SPRUCE - WHITE 7-8' HEIGHT	\$600.00	\$ 4,800.00
		776.538	21	EA	MAPLE - RED - OCTOBER GLORY" 2-2.5 INCH CAL	\$850.00	\$ 17,850.00
		778.161	17	EA	BIRCH - RIVER HERITAGE (8-10' CLUMP)	\$650.00	\$ 11,050.00
		786.475	165	EA	JUNIPER - SEA GREEN 2.5-3 FEET	\$85.00	\$ 14,025.00
		804.3	150	FT	3 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC -(UL)	\$45.00	\$ 6,750.00
		811.31	5	EA	PULL BOX 12 X 12 INCHES - SD2.031	\$1,050.00	\$ 5,250.00
		815.	1	LS	TRAFFIC CONTROL SIGNAL	\$120,000.00	\$ 120,000.00
		832.	250	SF	WARNING-REGULATORY AND ROUTE MARKER - ALUMINUM PANEL (TYPE A)	\$14.00	\$ 3,500.00
		847.1	50	EA	SIGN SUP (N/GUIDE)+RTE MKR W/I BRKWAY POST ASSEMBLY - STEEL	\$150.00	\$ 7,500.00
		852.	400	SF	SAFETY SIGNING FOR TRAFFIC MANAGEMENT	\$22.00	\$ 8,800.00
*		852.11	100	FT	TEMPORARY PEDESTRIAN BARRICADE	\$20.00	\$ 2,000.00
*		852.12	4	EA	TEMPORARY PEDESTRIAN CURB RAMP	\$100.00	\$ 400.00
		853.1	4	EA	PORTABLE BREAKAWAY BARRICADE TYPE III	\$145.00	\$ 580.00
		856.	90	DAY	ARROW BOARD	\$15.00	\$ 1,350.00
		856.12	90	DAY	PORTABLE CHANGEABLE MESSAGE SIGN	\$30.00	\$ 2,700.00
		859.	16,500	DAY	REFLECTORIZED DRUM	\$0.40	\$ 6,600.00

SP Required SP Provided		MCKNIGHT COMMUNITY TRAIL CITY OF SPRINGFIELD PRELIMINARY COST ESTIMATE (PROJECT FILE NO. 608157) Length of Project = 8,894 feet or 1.684 miles				
Item No.	Qty.	Unit	Item Description	Unit Price	Amount	
	864.04	300	SF PAVEMENT ARROWS AND LEGENDS REFL. WHITE (THERMOPLASTIC)	\$10.00	\$ 3,000.00	
	866.106	700	FT 6 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)	\$1.15	\$ 805.00	
	866.112	800	FT 12 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)	\$4.00	\$ 3,200.00	
	867.106	3,000	FT 6 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC)	\$1.15	\$ 3,450.00	
	874.	6	EA STREET NAME SIGN	\$130.00	\$ 780.00	
	903.	20	CY 3000 PSI, 1.5 INCH, 470 CEMENT CONCRETE	\$365.00	\$ 7,300.00	
	991.1	1	LS CONTROL OF WATER	\$60,000.00	\$ 60,000.00	
*	995.011	1	LS CULVERT STRUCTURE, CULVERT NO. 1	\$350,000.00	\$ 350,000.00	
*	995.021	1	LS CULVERT STRUCTURE, CULVERT NO. 2	\$350,000.00	\$ 350,000.00	
<b>SUBTOTAL HIGHWAY PAY ITEMS =</b>					<b>\$3,155,110</b>	

**BRIDGE PAY ITEMS - GLEN ROAD BRIDGE S-24-027**

*	115.1	1	LS DEMOLITION OF BRIDGE NO. S-24-027	\$8,000.00	\$ 8,000.00
*	127.1	10	CY REINFORCED CONCRETE EXCAVATION	\$1,500.00	\$ 15,000.00
*	140.	5	CY BRIDGE EXCAVATION	\$50.00	\$ 250.00
*	151.2	10	CY GRAVEL BORROW FOR BACKFILLING STRUCTURES AND PIPES	\$50.00	\$ 500.00
*	912.	64	EA DRILLING AND GROUTING DOWELS	\$85.00	\$ 5,440.00
*	995.01	1	LS BRIDGE STRUCTURE, BRIDGE NO. S-24-027	\$97,000.00	\$ 97,000.00
<b>SUBTOTAL (GLEN ROAD BRIDGE S-24-027) PAY ITEMS =</b>					<b>\$126,190</b>

**BRIDGE PAY ITEMS - MCKNIGHT ELEVATED FOOTBRIDGE S-XX-XXX**

*	140.	20	CY BRIDGE EXCAVATION	\$50.00	\$ 1,000.00
*	501.	50	FT GRANITE CURB	\$60.00	\$ 3,000.00
*	656.	7,155	FT HELICAL PILES	\$105.00	\$ 751,275.00
	995.02	1	EA BRIDGE STRUCTURE, BRIDGE NO. S-XX-XXX	\$2,061,000.00	\$ <del>2,061,000.00</del>

**SUBTOTAL (MCKNIGHT ELEVATED FOOTBRIDGE S-XX-XXX) PAY ITEMS = \$2,816,275**

**COMBINED HIGHWAY & BRIDGE PAY ITEMS (INPUT INTO MASSDOT CPE) \$6,097,575**

**15% CONTINGENCY (OF COMBINED HIGHWAY & BRIDGE ITEMS) = \$915,000**

**FORCE ACCOUNT (PLACEHOLDER) - RELOCATION OF FIBEROPTIC CABLE \$200,000**

**SUBTOTAL (COMBINED HWY & STRUCTURES) = \$7,212,575**

**SAY = \$7,220,000**

\$2.8 million is a huge cost for 1880. feet of shared use path.

Should the following items be considered:  
Traffic Police  
Construction Engineering 5%  
Construction Contingency 10%  
Design Contingency  
Utility Relocation Contingency