

RVMPO/MRMPO SCOPING ESTIMATE

(updated June 2016)

| PROJECT NAME | | | | COUNTY | |
|---|---|--------|---------|-------------|-------------------|
| RRGW - Rock Point to Twin Bridges | | | | Jackson | |
| KIND OF WORK | | | LENGTH | DATE | ESTIMATE PREPARER |
| Multi Use Path Construction and Paving | | | 2.44 mi | 12/6/16 | James Philp |
| BID ITEM # | ITEM TITLE | UNIT | QTY | UNIT COST | EXTENDED COST |
| TEMPORARY FEATURES AND APPURTENANCES | | | | | |
| 0210-0100000A | MOBILIZATION | LS | x | 10.00% | \$123,804 |
| 0225-0100000A | TEMPORARY PROTECTION AND DIRECTION OF TRAFFIC | LS | x | 8.00% | \$99,043 |
| 0280-0100000A | EROSION CONTROL | LS | x | 2.00% | \$24,761 |
| ROADWORK | | | | | |
| 0305-0100000A | CONSTRUCTION SURVEY WORK | LS | x | 1.00% | \$11,904 |
| 0310-0100000A | REMOVAL OF STRUCTURES AND OBSTRUCTIONS | LS | x | 3.00% | \$35,713 |
| 0310-0101000F | REMOVAL OF CURBS | FOOT | | \$ 3.00 | \$0 |
| 0310-0113000A | REMOVAL OF GUARDRAIL | FOOT | | \$ 3.00 | \$0 |
| 0310-0100000F | REMOVAL OF PIPES | FOOT | | \$ 16.00 | \$0 |
| 0310-0103000J | REMOVAL OF SURFACINGS | SQYD | | \$ 5.00 | \$0 |
| 0310-0102000J | REMOVAL OF WALKS AND DRIVEWAYS | SQYD | | \$ 8.00 | \$0 |
| 0320-0100000R | CLEARING AND GRUBBING | ACRE | 4.5 | \$ 4,500.00 | \$20,250 |
| 0330-0105000K | GENERAL EXCAVATION | CUYD | | \$ 12.00 | \$0 |
| 0330-0123000K | EMBANKMENT IN PLACE | CUYD | 6700 | \$ 15.00 | \$100,500 |
| 0331-0106000J | 12 INCH SUBGRADE STABILIZATION | SQYD | 1675 | \$ 13.00 | \$21,775 |
| 0331-0112000J | 24 INCH SUBGRADE STABILIZATION | SQYD | | \$ 20.00 | \$0 |
| 0340-0100000Q | WATERING | MGAL | 500 | \$ 25.00 | \$12,500 |
| 0350-0105000J | SUBGRADE GEOTEXTILE | SQYD | 20067 | \$ 1.00 | \$20,067 |
| 0390-0105000K | LOOSE RIPRAP, CLASS 50 | CUYD | | \$ 56.00 | \$0 |
| 0390-0108000K | LOOSE RIPRAP, CLASS 100 | CUYD | | \$ 60.00 | \$0 |
| DRAINAGE AND SEWERS | | | | | |
| 0445-010018AF | 18 INCH CULVERT PIPE, 5 FT DEPTH | FOOT | 240 | \$ 68.00 | \$16,320 |
| 0445-010024AF | 24 INCH CULV PIPE, 5 FT DEPTH | FOOT | | \$ 75.00 | \$0 |
| 0445-010036AF | 36 INCH CULV PIPE, 5 FT DEPTH | FOOT | | \$ 101.00 | \$0 |
| 0445-010048AF | 48 INCH CULV PIPE, 5 FT DEPTH | FOOT | | \$ 142.00 | \$0 |
| 0445-035012AF | 12 INCH STORM SEWER PIPE, 5 FT DEPTH | FOOT | | \$ 49.00 | \$0 |
| 0445-035015AF | 15 INCH STORM SEW PIPE, 5 FT | FOOT | | \$ 56.00 | \$0 |
| 0445-035018AF | 18 INCH STORM SEWER PIPE, 5 FT DEPTH | FOOT | | \$ 65.00 | \$0 |
| 0445-035024BF | 24 INCH STORM SEWER PIPE, 10 FT DEPTH | FOOT | | \$ 95.00 | \$0 |
| 0445-035036BF | 36 INCH STORM SEWER PIPE, 10 FT DEPTH | FOOT | | \$ 119.00 | \$0 |
| 0445-035048BF | 48 INCH STORM SEWER PIPE, 10 FT DEPTH | FOOT | | \$ 220.00 | \$0 |
| 0470-0101000E | CONCRETE STORM SEWER MANHOLES | EACH | | \$ 3,550.00 | \$0 |
| 0470-0307000E | CONCRETE INLETS, TYPE CG-2 | EACH | | \$ 1,500.00 | \$0 |
| 0480-0100000F | DRAINAGE CURBS | FOOT | | \$ 10.00 | \$0 |
| 0490-0100000E | ADJUSTING BOXES | EACH | | \$ 290.00 | \$0 |
| 0490-0105000E | ADJUSTING INLETS | EACH | | \$ 715.00 | \$0 |
| 0490-0121000E | MAJOR ADJUSTMENT OF MANHOLES | EACH | | \$ 1,500.00 | \$0 |
| BRIDGES/STRUCTURES | | | | | |
| | BOX CULVERT EXTENTION | LS | 1 | \$100,000 | \$100,000 |
| | TEMP BRIDGE | LS | | | \$0 |
| | BRIDGE REMOVAL | LS | | | \$0 |
| | RETAINING WALL - SEGMENTAL | LIN FT | 4500 | \$25.00 | \$112,500 |
| BASES | | | | | |
| 0620-0104000J | COLD PLANE PAVEMENT REMOVAL, 0 - 2 INCH DEEP | SQYD | | \$ 3.00 | \$0 |
| 0620-0120000J | COLD PLANE PAVEMENT REMOVAL, 2 INCH DEEP | SQYD | | \$ 1.00 | \$0 |
| 0640-0100000M | AGGREGATE BASE | TON | 7224 | \$ 27.00 | \$195,048 |
| 0640-0101000M | AGGREGATE SHOULDERS | TON | | \$ 20.00 | \$0 |
| WEARING SURFACES | | | | | |
| 0730-0100000M | ASPHALT IN TACK COAT | TON | | \$ 425.00 | \$0 |
| 0744-0202000M | LEVEL 2, 1/2 INCH DENSE MHMAC | TON | 2570 | \$ 90.00 | \$231,300 |
| 0744-0302000M | LEVEL 3, 1/2 INCH DENSE MHMAC | TON | | \$ 90.00 | \$0 |
| 0746-0100000F | CRACK SEALING | FOOT | | \$ 5.00 | \$0 |
| 0749-0100000E | EXTRA FOR ASPHALT APPROACHES | EACH | 20 | \$ 575.00 | \$11,500 |
| 0755-0100000J | REINFORCED CONCRETE PAVEMENT | SQYD | | \$ 125.00 | \$0 |

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| KIND OF WORK | | | LENGTH | DATE | ESTIMATE PREPARER |
| Multi Use Path Construction and Paving | | | 2.44 mi | 12/6/16 | James Philp |
| BID ITEM # | ITEM TITLE | UNIT | QTY | UNIT COST | EXTENDED COST |
| 0759-0127000J | REINFORCED CONCRETE DRIVEWAYS | SQFT | | \$ 9.00 | \$0 |
| 0759-0100000F | CONCRETE CURBS | FOOT | 645 | \$ 17.00 | \$10,965 |
| 0759-0103000F | CURB AND GUTTER CONCRETE CURBS | FOOT | | \$ 19.00 | \$0 |
| 0759-0128000J | CONCRETE WALKS | SQFT | | \$ 5.00 | \$0 |
| 0759-0126000J | CONCRETE DRIVEWAYS | SQFT | | \$ 7.00 | \$0 |
| PERMANENT TRAFFIC CONTROL AND GUIDANCE DEVICES | | | | | |
| 0810-0104000F | GUARDRAIL, TYPE 2A | FOOT | | \$ 19.00 | \$0 |
| 0810-0107000F | GUARDRAIL, TYPE 3 | FOOT | | \$ 50.00 | \$0 |
| 0810-0109000F | GUARDRAIL, TYPE 4 | FOOT | | \$ 50.00 | \$0 |
| 0810-0119000E | GUARDRAIL ANCHORS, TYPE 1 | EACH | | \$ 780.00 | \$0 |
| 0810-0122000E | GUARDRAIL END PIECES, TYPE B | EACH | | \$ 700.00 | \$0 |
| 0810-0126000E | GUARDRAIL TRANSITION | EACH | | \$ 2,300.00 | \$0 |
| 0810-0129000E | GUARDRAIL TERMINALS, NON-FLARED | EACH | | \$ 2,150.00 | \$0 |
| 0810-0130000E | GUARDRAIL TERMINALS, FLARED | EACH | | \$ 2,100.00 | \$0 |
| 0812-0101000F | ADJUSTING GUARDRAIL | FOOT | | \$ 3.50 | \$0 |
| 0820-0100000F | CONCRETE BARRIER | FOOT | | \$ 61.00 | \$0 |
| 0820-0127000F | CONCRETE BARRIER, TALL | FOOT | | \$ 85.00 | \$0 |
| 0840-0102000E | DELINEATORS, TYPE 2 | EACH | | \$ 38.00 | \$0 |
| 0840-0106000E | MILEPOST MARKER POSTS | EACH | | \$ 100.00 | \$0 |
| 0867-0103000E | PAVEMENT LEGEND, TYPE B: ARROWS | EACH | | \$ 270.00 | \$0 |
| 0867-0111000E | PAVEMENT LEGEND, TYPE B: "SCHOOL" | EACH | | \$ 495.00 | \$0 |
| 0867-0119000E | PAVEMENT LEGEND, TYPE B: RAILROAD CROSSING MARKINGS | EACH | | \$ 975.00 | \$0 |
| 0867-0131000E | PAVEMENT LEGEND, TYPE B-HS: BICYCLE LANE SYMBOLS | EACH | | \$ 280.00 | \$0 |
| 0867-0145000J | PAVEMENT BAR, TYPE B | SQFT | | \$ 8.50 | \$0 |
| 0867-0173000E | PAVEMENT LEGEND, TYPE B: DISABLED PARKING | EACH | | \$ 287.00 | \$0 |
| 0855-0102000E | BI-DIRECTIONAL YELLOW TYPE I MARKERS | EACH | | \$ 4.75 | \$0 |
| 0855-0103000E | BI-DIRECTIONAL YELLOW TYPE I MARKERS, RECESSED | EACH | | \$ 6.00 | \$0 |
| 0860-0200000F | LONGITUDINAL PAVEMENT MARKINGS - PAINT | FOOT | | \$ 0.15 | \$0 |
| 0865-0116600F | THERMOPLASTIC, EXTRUDED, SURFACE, PROFILED | FOOT | 1500 | \$ 1.00 | \$1,500 |
| 0857-0101000L | CONTINUOUS RUMBLE STRIPS | MILE | | \$ 900.00 | \$0 |
| PERMANENT TRAFFIC CONTROL AND ILLUMINATION SYSTEMS | | | | | |
| | PERMANENT SIGNS | LS | | | \$0 |
| | INTERPRETIVE PANELS AND DÉCORATIVE HARDSCAPE FEATURES | LS | | | \$0 |
| 0990-0103000A | DETECTOR INSTALLATION, _____ | EACH | | \$ 2,600.00 | \$0 |
| 0990-0101000A | TRAFFIC SIGNAL INSTALLATION, _____ | EACH | | \$ 178,000.00 | \$0 |
| 0990-0105000A | INTERCONNECT SYSTEM | LS | | \$ 30,000.00 | \$0 |
| | STREET LIGHTS SINGLE - INCLUDING CONECTIONS, WIRING, CONDUIT | EACH | | | \$0 |
| | STREET LIGHTS MULTIPLE - INCLUDING CONECTIONS, WIRING, CONDUIT | EACH | | | \$0 |
| | ILLUMINATION | | | | \$0 |
| RIGHT-OF-WAY DEVELOPMENT AND CONTROL | | | | | |
| 1030-0109000R | PERMANENT SEEDING, MIX NO. 1 | ACRE | 3.0 | \$ 2,400.00 | \$7,200 |
| 1050-0135000F | _____ CHAIN LINK FENCE | LIN FT | | \$ 18.00 | \$0 |
| 1070-0100000E | SINGLE MAILBOX SUPPORTS | EACH | | \$ 150.00 | \$0 |
| 1070-0101000E | MULTIPLE MAILBOX SUPPORTS | EACH | | \$ 350.00 | \$0 |
| | ENVIRONMENTAL MITIGATION SITES | LS | | | \$0 |
| | WATER QUALITY/DETENTION | LS | 1 | \$ 25,000.00 | \$25,000 |
| UNUSUAL ELEMENTS | | | | | |
| 1095-0104000E | LITTER RECEPTACLES | EACH | | \$1,600.00 | \$0 |
| 1095-0100000E | BENCHES, TYPE _____ | EACH | | \$1,700.00 | \$0 |
| 1040-0200000E | TREE GRATES | EACH | | \$1,300.00 | \$0 |
| 1095-0101000E | BIKE RACKS | EACH | | \$600.00 | \$0 |
| 0759-0161000F | METAL HANDRAIL, 2 RAILS | LIN FT | 750 | \$72.00 | \$54,000 |
| | RAILROAD CROSSING | LS | 1 | \$250,000.00 | \$250,000 |
| CONSTRUCTION SUBTOTAL | | | | | \$1,485,650 |

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| PROJECT NAME RRGW - Rock Point to Twin Bridges | | | | COUNTY Jackson | |
| KIND OF WORK Multi Use Path Construction and Paving | | | LENGTH 2.44 mi | DATE 12/6/16 | ESTIMATE PREPARER James Philp |
| BID ITEM # | ITEM TITLE | UNIT | QTY | UNIT COST | EXTENDED COST |

| PROJECT PHASES/SUMMARY OF COSTS | | | | | |
|---------------------------------|---|------|-----|---------------|------------------------|
| ROW | | | | | |
| | LAND, IMPROVEMENTS, DAMAGES | LS | 1 | \$ 210,000.00 | \$ 210,000.00 |
| | ROW PROCESS (APPR, REV APPR, ACQ, ODOT REV, etc.) | File | 7 | \$ 10,000.00 | \$ 70,000.00 |
| | ROW SUBTOTAL | | | | \$ 280,000.00 |
| UTILITY RELOCATION | | | | | |
| | <i>INSERT APPROPRIATE LINE ITEMS/COSTS FOR ANY REIMBURSABLE UTILITIES</i> | | | | |
| | UTILITY RELOCATION SUBTOTAL | | | | \$ - |
| PRELIMINARY ENGINEERING | | | | | |
| | PE - ODOT OVERSIGHT | LS | 1 | \$ 20,000.00 | \$ 20,000.00 |
| | *PE - ENVIRONMENTAL | LS | 1 | | \$ - |
| | PE - SURVEYING | LS | 1 | | \$ - |
| | PE - GEO-TECH | LS | 1 | | \$ - |
| | **PE - DESIGN & PROJECT MANAGEMENT | LS | 22% | of CON cost | \$ 326,843.09 |
| | PRELIMINARY ENGINEERING SUBTOTAL | | | | \$ 346,843.09 |
| CONSTRUCTION | | | | | |
| | TOTAL BID ITEM COST (from estimate above) | | | | \$1,485,650 |
| | CE- ODOT OVERSIGHT | LS | 1 | \$ 20,000.00 | \$ 20,000.00 |
| | ***CONSTRUCTION ENGINEERING ADMIN & INSPECTION | LS | 20% | of CON cost | \$ 297,130.08 |
| | CONSTRUCTION CONTINGENCY | LS | 30% | of CON cost | \$ 445,695.12 |
| | CONSTRUCTION SUBTOTAL | | | | \$ 2,248,475.60 |
| TOTAL PROJECT COST | | | | | \$ 2,875,318.69 |

* Environmental costs should account for the typical clearances needed for each environmental area (historic-archaeological & built, hazmat, biology, wetland, noise, etc.), any necessary permits and land use requirements. Contact ODOT LAL for assistance, if needed.

** Typical percentages for federally funded LPA projects range from 15% to 25%. Projects with lower construction costs (under \$1M) typically have higher design percentages.

*** Typical percentages for federally funded LPA projects range from 17% to 25%. Projects with lower construction costs (under \$1M) typically have higher CE percentages.