

# RVMPO/MRMPO SCOPING ESTIMATE

(updated June 2016)

PROJECT NAME				COUNTY	
Foothill Road - Cedar Links to Delta Waters				Jackson	
KIND OF WORK		LENGTH	DATE	ESTIMATE PREPARER	
Road		2400	12/1/16	Alex Georgevitch	
BID ITEM #	ITEM TITLE	UNIT	QTY	UNIT COST	EXTENDED COST
<b>TEMPORARY FEATURES AND APPURTENANCES</b>					
0210-010000A	MOBILIZATION	LS	x	10.00%	\$234,351
0225-010000A	TEMPORARY PROTECTION AND DIRECTION OF TRAFFIC	LS	x	8.00%	\$187,481
0280-010000A	EROSION CONTROL	LS	x	2.00%	\$46,870
<b>ROADWORK</b>					
0305-010000A	CONSTRUCTION SURVEY WORK	LS	x	1.00%	\$22,534
0310-010000A	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	x	3.00%	\$67,601
0310-0101000F	REMOVAL OF CURBS	FOOT	100	\$ 3.00	\$300
0310-0113000A	REMOVAL OF GUARDRAIL	FOOT	0	\$ 3.00	\$0
0310-0100000F	REMOVAL OF PIPES	FOOT	200	\$ 16.00	\$3,200
0310-0103000J	REMOVAL OF SURFACINGS	SQYD	5700	\$ 5.00	\$28,500
0310-0102000J	REMOVAL OF WALKS AND DRIVEWAYS	SQYD	200	\$ 8.00	\$1,600
0320-0100000R	CLEARING AND GRUBBING	ACRE	9	\$ 4,500.00	\$41,850
0330-0105000K	GENERAL EXCAVATION	CUYD	12000	\$ 12.00	\$144,000
0330-0123000K	EMBANKMENT IN PLACE	CUYD	8000	\$ 15.00	\$120,000
0331-0106000J	12 INCH SUBGRADE STABILIZATION	SQYD	500	\$ 13.00	\$6,500
0331-0112000J	24 INCH SUBGRADE STABILIZATION	SQYD	1000	\$ 20.00	\$20,000
0340-0100000Q	WATERING	MGAL	500	\$ 25.00	\$12,500
0350-0105000J	SUBGRADE GEOTEXTILE	SQYD	18700	\$ 1.00	\$18,700
0390-0105000K	LOOSE RIPRAP, CLASS 50	CUYD	200	\$ 56.00	\$11,200
0390-0108000K	LOOSE RIPRAP, CLASS 100	CUYD	200	\$ 60.00	\$12,000
<b>DRAINAGE AND SEWERS</b>					
0445-010018AF	18 INCH CULVERT PIPE, 5 FT DEPTH	FOOT	800	\$ 68.00	\$54,400
0445-010024AF	24 INCH CULV PIPE, 5 FT DEPTH	FOOT	1200	\$ 75.00	\$90,000
0445-010036AF	36 INCH CULV PIPE, 5 FT DEPTH	FOOT	600	\$ 101.00	\$60,600
0445-010048AF	48 INCH CULV PIPE, 5 FT DEPTH	FOOT	600	\$ 142.00	\$85,200
0445-035012AF	12 INCH STORM SEWER PIPE, 5 FT DEPTH	FOOT	0	\$ 49.00	\$0
0445-035015AF	15 INCH STORM SEW PIPE, 5 FT	FOOT	0	\$ 56.00	\$0
0445-035018AF	18 INCH STORM SEWER PIPE, 5 FT DEPTH	FOOT	0	\$ 65.00	\$0
0445-035024BF	24 INCH STORM SEWER PIPE, 10 FT DEPTH	FOOT	0	\$ 95.00	\$0
0445-035036BF	36 INCH STORM SEWER PIPE, 10 FT DEPTH	FOOT	0	\$ 119.00	\$0
0445-035048BF	48 INCH STORM SEWER PIPE, 10 FT DEPTH	FOOT	0	\$ 220.00	\$0
0470-0101000E	CONCRETE STORM SEWER MANHOLES	EACH	8	\$ 3,550.00	\$28,400
0470-0307000E	CONCRETE INLETS, TYPE CG-2	EACH	16	\$ 1,500.00	\$24,000
0480-0100000F	DRAINAGE CURBS	FOOT	0	\$ 10.00	\$0
0490-0100000E	ADJUSTING BOXES	EACH	0	\$ 290.00	\$0
0490-0105000E	ADJUSTING INLETS	EACH	0	\$ 715.00	\$0
0490-0121000E	MAJOR ADJUSTMENT OF MANHOLES	EACH	0	\$ 1,500.00	\$0
<b>BRIDGES/STRUCTURES</b>					
	BRIDGES	LS	0		\$0
	TEMP BRIDGE	LS	0		\$0
	BRIDGE REMOVAL	LS	0		\$0
	RETAINING WALL	LIN FT	0	\$492.00	\$0
<b>BASES</b>					
0620-0104000J	COLD PLANE PAVEMENT REMOVAL, 0 - 2 INCH DEEP	SQYD	0	\$ 3.00	\$0
0620-0120000J	COLD PLANE PAVEMENT REMOVAL, 2 INCH DEEP	SQYD	0	\$ 1.00	\$0
0640-0100000M	AGGREGATE BASE	TON	15000	\$ 27.00	\$405,000
0640-0101000M	AGGREGATE SHOULDERS	TON	0	\$ 20.00	\$0
<b>WEARING SURFACES</b>					
0730-0100000M	ASPHALT IN TACK COAT	TON	0	\$ 425.00	\$0
0744-0202000M	LEVEL 2, 1/2 INCH DENSE MHMAC	TON	0	\$ 90.00	\$0
0744-0302000M	LEVEL 3, 1/2 INCH DENSE MHMAC	TON	8080	\$ 90.00	\$727,200
0746-0100000F	CRACK SEALING	FOOT	0	\$ 5.00	\$0
0749-0100000E	EXTRA FOR ASPHALT APPROACHES	EACH	3	\$ 575.00	\$1,725
0755-0100000J	REINFORCED CONCRETE PAVEMENT	SQYD	200	\$ 125.00	\$25,000
0759-0127000J	REINFORCED CONCRETE DRIVEWAYS	SQFT	0	\$ 9.00	\$0
0759-0100000F	CONCRETE CURBS	FOOT	0	\$ 17.00	\$0

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Road		2400	12/1/16	Alex Georgevitch	
BID ITEM #	ITEM TITLE	UNIT	QTY	UNIT COST	EXTENDED COST
0759-0103000F	CURB AND GUTTER CONCRETE CURBS	FOOT	4800	\$ 19.00	\$91,200
0759-0128000J	CONCRETE WALKS	SQFT	24000	\$ 5.00	\$120,000
0759-0126000J	CONCRETE DRIVEWAYS	SQFT	500	\$ 7.00	\$3,500
<b>PERMANENT TRAFFIC CONTROL AND GUIDANCE DEVICES</b>					
0810-0104000F	GUARDRAIL, TYPE 2A	FOOT	0	\$ 19.00	\$0
0810-0107000F	GUARDRAIL, TYPE 3	FOOT	0	\$ 50.00	\$0
0810-0109000F	GUARDRAIL, TYPE 4	FOOT	0	\$ 50.00	\$0
0810-0119000E	GUARDRAIL ANCHORS, TYPE 1	EACH	0	\$ 780.00	\$0
0810-0122000E	GUARDRAIL END PIECES, TYPE B	EACH	0	\$ 700.00	\$0
0810-0126000E	GUARDRAIL TRANSITION	EACH	0	\$ 2,300.00	\$0
0810-0129000E	GUARDRAIL TERMINALS, NON-FLARED	EACH	0	\$ 2,150.00	\$0
0810-0130000E	GUARDRAIL TERMINALS, FLARED	EACH	0	\$ 2,100.00	\$0
0812-0101000F	ADJUSTING GUARDRAIL	FOOT	0	\$ 3.50	\$0
0820-0100000F	CONCRETE BARRIER	FOOT	0	\$ 61.00	\$0
0820-0127000F	CONCRETE BARRIER, TALL	FOOT	0	\$ 85.00	\$0
0840-0102000E	DELINEATORS, TYPE 2	EACH	0	\$ 38.00	\$0
0840-0106000E	MILEPOST MARKER POSTS	EACH	0	\$ 100.00	\$0
0867-0103000E	PAVEMENT LEGEND, TYPE B: ARROWS	EACH	12	\$ 270.00	\$3,240
0867-0111000E	PAVEMENT LEGEND, TYPE B: "SCHOOL"	EACH	0	\$ 495.00	\$0
0867-0119000E	PAVEMENT LEGEND, TYPE B: RAILROAD CROSSING MARKINGS	EACH	0	\$ 975.00	\$0
0867-0131000E	PAVEMENT LEGEND, TYPE B-HS: BICYCLE LANE SYMBOLS	EACH	12	\$ 280.00	\$3,360
0867-0145000J	PAVEMENT BAR, TYPE B	SQFT	400	\$ 8.50	\$3,400
0867-0173000E	PAVEMENT LEGEND, TYPE B: DISABLED PARKING	EACH	0	\$ 287.00	\$0
0855-0102000E	BI-DIRECTIONAL YELLOW TYPE I MARKERS	EACH	0	\$ 4.75	\$0
0855-0103000E	BI-DIRECTIONAL YELLOW TYPE I MARKERS, RECESSED	EACH	200	\$ 6.00	\$1,200
0860-0200000F	LONGITUDINAL PAVEMENT MARKINGS - PAINT	FOOT	0	\$ 0.15	\$0
0865-0116600F	THERMOPLASTIC, EXTRUDED, SURFACE, PROFILED	FOOT	12000	\$ 1.00	\$12,000
0857-0101000L	CONTINUOUS RUMBLE STRIPS	MILE		\$ 900.00	\$0
<b>PERMANENT TRAFFIC CONTROL AND ILLUMINATION SYSTEMS</b>					
	PERMANENT SIGNS	LS			\$0
	INTERPRETIVE PANELS AND DECORATIVE 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 CONNECTIONS, WIRING, CONDUIT	EACH			\$0
	STREET LIGHTS MULTIPLE - INCLUDING CONNECTIONS, WIRING, CONDUIT	EACH	14	\$ 6,000.00	\$84,000
	ILLUMINATION				\$0
<b>RIGHT-OF-WAY DEVELOPMENT AND CONTROL</b>					
1030-0109000R	PERMANENT SEEDING, MIX NO. 1	ACRE	4	\$ 2,400.00	\$9,600
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
	LANDSCAPING	LS			\$0
<b>UNUSUAL ELEMENTS</b>					
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		\$72.00	\$0
					\$0
<b>CONSTRUCTION SUBTOTAL</b>					<b>\$2,812,212</b>

<b>PROJECT PHASES/SUMMARY OF COSTS</b>					
ROW					
	LAND, IMPROVEMENTS, DAMAGES	LS			

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<b>KIND OF WORK</b> Road		<b>LENGTH</b> 2400	<b>DATE</b> 12/1/16	<b>ESTIMATE PREPARER</b> Alex Georgevitch	
<b>BID ITEM #</b>	<b>ITEM TITLE</b>	<b>UNIT</b>	<b>QTY</b>	<b>UNIT COST</b>	<b>EXTENDED COST</b>
	ROW PROCESS (APPR, REV APPR, ACQ, ODOT REV, etc.)	File	10	\$ 10,000.00	\$ 100,000.00
	<b>ROW SUBTOTAL</b>				<b>\$ 100,000.00</b>
<b>UTILITY RELOCATION</b>					
<i>INSERT APPROPRIATE LINE ITEMS/COSTS FOR ANY REIMBURSABLE UTILITIES</i>					
	<b>UTILITY RELOCATION SUBTOTAL</b>				<b>\$ -</b>
<b>PRELIMINARY ENGINEERING</b>					
	PE - ODOT OVERSIGHT	LS	1	\$ 20,000.00	\$ 20,000.00
	*PE - ENVIRONMENTAL	LS	1	\$ 50,000.00	\$ 50,000.00
	PE - SURVEYING	LS	1	\$ 50,000.00	\$ 50,000.00
	PE - GEO-TECH	LS	1	\$ 20,000.00	\$ 20,000.00
	**PE - DESIGN & PROJECT MANAGEMENT	LS	6%	of CON cost	\$ 168,732.72
	<b>PRELIMINARY ENGINEERING SUBTOTAL</b>				<b>\$ 308,732.72</b>
<b>CONSTRUCTION</b>					
	TOTAL BID ITEM COST (from estimate above)				\$2,812,212
	CE- ODOT OVERSIGHT	LS	1	\$ 20,000.00	\$ 20,000.00
	***CONSTRUCTION ENGINEERING ADMIN & INSPECTION	LS	9%	of CON cost	\$ 253,099.08
	CONSTRUCTION CONTINGENCY	LS	30%	of CON cost	\$ 843,663.60
	<b>CONSTRUCTION SUBTOTAL</b>				<b>\$ 3,928,974.68</b>
<b>TOTAL PROJECT COST</b>					<b>\$ 4,337,707.40</b>

\* 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.