

APPENDIX C
Special State Projects 2022-2023 (FY 23)

1.) **Russell Street and 3rd Street Intersection:** Mill and re-pave full street width with MDT 1/2", Grade S, PG 64-28 at 0.2 feet thick. Project may include contingency replacement of traffic sensing loops with radar vehicle detection on Russell Street lanes. MDT will reimburse City for materials, subcontractors, labor, and equipment costs based on actual work hours, per rates shown on attached project estimate prepared on September 27, 2022 by Brian Hensel, Deputy Director of Public Works-Streets, City of Missoula. Does not include epoxy striping. This special project is being done in accordance with the existing maintenance agreement between MDT and the City of Missoula.

TOTAL \$ 62,134

Approved For 2022- 2023 (FY 23)



Steve Felix,
State of Montana
Department of Transportation

9-27-2022

Date

Jordan Hess, Mayor
City of Missoula

Date

Attest:

Martha Rehbein, Clerk
City of Missoula

Date

MDT SPECIAL PROJECT COST ESTIMATE
Russell Street and 3rd Street Intersection. Full width mill/pave
FY 23

Prepared by: Brian Hensel

Date: September 27, 2022

Scope: Mill full width 0.20' deep, around manholes, water valves, gas valves and end transitions. Pave back with MDT 1/2" Grade S, PG 64-28 asphalt 0.20 feet thick. This project does not include epoxy striping.

<u>Overlay Areas:</u>		<u>Sq-ft.</u>	<u>Sq-yd</u>
1.) Area:	63' x 130'	9,100	1,011

Milling:

Contractor Costs

1.) Lease 7' wide roto mill: Lump Sum at \$550/hour for 6 hours	Cost
	\$ 3,300.00

Labor and Equipment by Street Division:

<u>Equipment/personnel</u>	<u>No. of Units</u>	<u>Rate/Hr</u>	<u>Hours</u>	<u>Cost</u>
Water Truck	1	\$ 105.93	6	\$ 635.58
Sweeper(Broom Bear)	1	\$ 244.91	10	\$ 2,449.10
Sweeper (Vacuum)	2	\$ 274.17	10	\$ 5,483.40
Tandem Dump Trucks	4	\$ 143.52	6	\$ 3,444.48
Skid Steer mill	1	\$ 246.10	10	\$ 2,461.00
Loader	1	\$ 112.06	6	\$ 672.36
Pick-ups	3	\$ 46.34	8	\$ 1,112.16
Laborers(T.C.)	4	\$ 46.10	10	\$ 1,844.00
Laborers(mill)	2	\$ 46.10	6	\$ 553.20
Superintendent	1	\$ 60.00	8	\$ 480.00
Deputy Director	1	\$ 70.00	2	\$ 140.00
			Subtotal	\$ 19,275.28

Note: "Rate" column includes equipment cost plus operators at \$ 46.100/hr, excluding pick-ups.

Contingency: Replace traffic signal on Russell if magnetic sensing loops are damaged during milling operations.

New radar control signal equipment, two units (Lump Sum) \$ 4,800.00

Paving:

Materials

1.) Asphalt MDT 1/2" Grade S, PG 64-28

<u>Area to Pave: (square- ft)</u>	<u>Asphalt thickness (ft)</u>	<u>Density est. (lbs/ft³)</u>	<u>Quantity (tons)</u>	<u>Cost Est./ton</u>	<u>Cost</u>
9,100	0.2	155	141	\$69.60	\$ 9,817.08

2.) Tack Oil (SS-1)

<u>Area to apply oil (SY)</u>	<u>Application Rate (gals/sy)</u>	<u>Quantity (gals)</u>	<u>Cost/gal</u>	<u>Cost</u>
1,011	0.05	50.55	\$4.50	\$ 227.48

3.) Manhole/sump risers: Cast iron "drop-in" I/co 770 or 777

<u>Size (in)</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Cost</u>
2"	0	\$ 120.00	\$ -

4.) Phone manhole riser: Cast iron "drop-in"

<u>Size (in)</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Cost</u>
2"	0	\$ -	\$ -

5.) Water valve cast iron "drop-in" risers and lids

<u>Size</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Cost</u>
2"	0	\$ 25.00	\$ -

Subtotal \$ 10,044.56

Labor & Equipment by Street Division (paving cont.)

<u>Equipment/personnel</u>	<u>No. of Units</u>	<u>Rate/Hr</u>	<u>Hours</u>	<u>Cost</u>
Paver	1	\$ 341.09	10	\$ 3,410.90
Double Drum Roller (27,000 lbs.)	1	\$ 149.85	10	\$ 1,498.50
Double Drum Roller (5600 lbs.)	1	\$ 155.56	10	\$ 1,555.60
Tandem Dump Trucks	5	\$ 143.52	10	\$ 7,176.00
Skid Steer	1	\$ 100.36	10	\$ 1,003.60
Pick-ups	3	\$ 46.34	10	\$ 1,390.20
Laborers(T.C.)	4	\$ 46.10	10	\$ 1,844.00
Screed Operators	2	\$ 46.10	10	\$ 922.00
Rakers	2	\$ 46.10	10	\$ 922.00
Sweeper (Vacuum)	1	\$ 274.17	10	\$ 2,741.70
Water Truck	1	\$ 105.93	10	\$ 1,059.30
Superintendent	1	\$ 60.00	8	\$ 480.00
Deputy Director	1	\$ 70.00	3	\$ 210.00
			Subtotal	\$ 24,213.80

Note: "Rate" column includes equipment cost plus operators at \$ 43.30/hr, excluding pick-ups.

Labor & Equipment by Traffic Services (Temporary Striping)

Labor	\$ 400.00
Equipment	\$ 100.00
	Subtotal \$ 500.00

COST SUMMARY

Milling	Contractor Costs		\$	3,300.00
	Labor & Equip. by Street Div.		\$	19,275.28
		Subtotal	\$	22,575.28
Paving	Materials		\$	10,044.56
	Labor & Equip. by Street Div./Traffic Serv		\$	24,713.80
		Subtotal	\$	34,758.36
Radar vehicle detection equipment			\$	4,800.00
		TOTAL WITH CONTINGENCY	\$	62,133.64