MISSOULA COUNTY CHIP SEAL PROJECT COST ESTIMATE Stonehaven, Lorraine Drive, and Terrace Drive FY 22

Prepared by: Brian Hensel

Date: April 1, 2021

Scope: .Apply full width chip seal. Does not include striping, communication with homeowners, pre-
sweeping, dust control, hauling chips to Miller Creek gravel pit, and sweeping chips.

Project area:	Length (ft)	Width (ft)	Area (sq ft)	Area (SY)
Stonehaven	1321	25	33,025	3,669.44
Loraine Drive	2882	26	74,932	8,325.78
Loraine Drive cul-de-sac			3,825	425.00
Terrace Drive	3065	23	70,495	7,832.78
Terrace Drive cul-de-sac			5,531	614.56
		Total	187,808	20,867.56

Materials

1.) Oil (CRS-2P)

Area to apply oil (SY)	Application Rate (gals/sy)	G	uantiity (tons))	Cost/ton	Cost
20,868	0.35		29.80	\$	434.00	\$ 12,932.71
2.) Chips						
Area to apply 3/8" chips (SY)	Application Rate (lbs/sy)	G	(tons)		Cost/ton	Cost
20,868	25		261	\$	31.00	\$ 8,086.18
					Subtotal	\$ 21,018.89
Contractor Cost						
1.) Shipping Oil/Demurrage	\$ 600/25 ton + \$500)/da	у			\$ 1,100.00
2.) Towing	\$60/hour					\$ -
					Subtotal	\$ 1,100.00
Labor & Equipement by Street	Division					
Equipment/personnel	No. of Units	F	Rate/hr		Hours	Cost
Distributor	1	\$	188.30		10	\$ 1,883.00
Chipper	1	\$	215.92		10	\$ 2,159.20
Rubber Tire Rollers	2	\$	98.18		10	\$ 1,963.60
Tandem Dump Trucks	7	\$	87.44		10	\$ 6,120.80
Water Truck	1	\$	100.85		10	\$ 1,008.50
Loader	1	\$	91.36		10	\$ 913.60
Pick-ups	2	\$	19.30		10	\$ 386.00
Laborers (T.C., fabric)*	4	\$	43.30		10	\$ 1,732.00
Superintendent	1	\$	60.00		5	\$ 300.00
Deputy Director	1	\$	70.00		2	\$ 140.00
				5	Subtotal	\$ 16,606.70
Overhead Charge at 18% on la	abor/equipment					\$ 2,989.21

NOTES:

1.) "T.C., fabric*"-includes labor for traffic control and placing fabric over sumps and manholes 2.) "Rate" column includes equipment cost plus operators at \$ 43.3/hr, excluding pick-ups.

TOTAL	\$ 41,714.79
LABOR/EQUIPMENT COST + O.H.	\$ 19,595.91
CONTRACTOR COST	\$ 1,100.00
MATERIALS COST	\$ 21,018.89

Missoula County PW: Stonehaven, Terrace Dr., Loraine Dr.

MISSOULA COUNTY CHIP SEAL PROJECT COST ESTIMATE Spurgin Road from Clements to end,including cul-de-sac, exclude trail FY 22

Prepared by: Brian Hensel

Date: April 1, 2021

Scope: .Apply full width chip seal from to south edge of asphalt to pedestrian/bike lane including cul-desac. Does not include striping, communication with homeowners, pre-sweeping, dust control, hauling chips to baseball field parking lot, and sweeping chips.

Project area:	Length (ft)	Width (ft)	Area (sq ft)		Area (SY)
Clements to Humble Road	Longen (iv)	which (it)	100 (04 10)		/
(exclude trail)	2376	22	52,272		5,808.00
Humble Rd to cul-de-sac (end)	2488	23	57,224		6,358.22
Cul-de-sac	2400	20	4.597		510.78
		Total	114,093		12,677.00
Chip Seal		Total	111,000		12,011.00
Materials					
1.) Oil (CRS-2P)					
	Application Rate	Quantiity			
Area to apply oil (SY)	(gals/sy)	(tons)	Cost/ton		Cost
12,677	0.35	18.10	\$ 434.00	\$	7,856.60
2.) Chips					
	Application Rate	Quantiity			
Area to apply 3/8" chips (SY)	(lbs/sy)	(tons)	Cost/ton		Cost
12,677	25	158	\$ 31.00	\$	4,912.34
			Subtotal	\$	12,768.93
Contractor Cost					
1.) Shipping Oil/Demurrage	\$ 600/25 ton + \$500)/day		\$	1,100.00
2.) Towing	\$60/hour			\$	
			Subtotal	\$	1,100.00
Labor & Equipement by Street D	ivision				
Equipment/personnel	No. of Units	Rate/hr	Hours		Cost
Distributor	1	\$ 188.30	9	\$	1,694.70
Chipper	1	\$ 215.92	9	\$	1,943.28
Rubber Tire Rollers	2	\$ 98.18	9	\$	1,767.24
Tandem Dump Trucks	7	\$ 87.44	9	\$	5,508.72
Water Truck	1	\$ 100.85	9	\$	907.65
Loader	1	\$ 91.36	9	\$	822.24
Pick-ups	2	\$ 19.30	9	\$	347.40
Laborers (T.C., fabric)*	4	\$ 43.30	9	\$	1,558.80
Superintendent	1	\$ 60.00	4	\$	240.00
Deputy Director	1	\$ 70.00	2	\$	140.00
			Subtotal	\$	14,930.03
Overhead Charge at 18% on lab	or/equipment			\$	2,687.41
ge at 1070 off tub				*	

NOTES:

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1.) "T.C., fabric*"-includes labor for traffic control and placing fabric over sumps and manholes

2.) "Rate" column includes equipment cost plus operators at \$ 43.3/hr, excluding pick-ups.

TOTAL	\$ 31,486,37
LABOR/EQUIPMENT COST + O.H.	\$ 17,617.44
CONTRACTOR COST	\$ 1,100.00
MATERIALS COST	\$ 12,768.93

Missoula County PW: Spurgin Road- Clements to end