

CASS COUNTY HIGHWAY DEPARTMENT														
PROJECT NO. CH1101 BITUMINOUS SURFACING ON CASS HIGHWAY 4 FROM CASS HIGHWAY 11 TO CASS HIGHWAY 81				ESTIMATED QUANTITIES			ENGINEER'S ESTIMATE		CENTRAL SPECIALTIES 6325 COUNTY RD 87 SW ALEXANDRIA, MN 56308		MARK SAND & GRAVEL PO BOX 458 FERGUS FALLS, MN 56538		BORDER STATES PO BOX 2586 FARGO, ND 58108	
ITEM	SPEC NO.	CODE	DESCRIPTION	UNIT	APPROX. QUANTITY	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL	
1	103	0100	CONTRACT BOND	L SUM	1	\$5,000.00	\$5,000.00	\$7,000.00	\$7,000.00	\$1,000.00	\$1,000.00	\$12,400.00	\$12,400.00	
2	107	0102	RAILWAY PROTECTION INSURANCE	L SUM	1	\$2,500.00	\$2,500.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$5,000.00	\$5,000.00	
3	203	0119	TOPSOIL - IMPORTED	CY	2,163	\$18.00	\$38,934.00	\$17.00	\$36,771.00	\$24.50	\$52,993.50	\$19.00	\$41,097.00	
4	216	0100	WATER	M GAL	1,184	\$15.00	\$17,760.00	\$10.00	\$11,840.00	\$8.00	\$9,472.00	\$13.50	\$15,984.00	
5	230	0301	SUBGRADE PREPARATION - TYPE A	MILE	5.5	\$2,500.00	\$13,750.00	\$2,500.00	\$13,750.00	\$1,100.00	\$6,050.00	\$4,000.00	\$22,000.00	
6	302	0120	AGGREGATE BASE COURSE CL 5	TON	24,489	\$22.00	\$538,758.00	\$14.50	\$355,090.50	\$16.15	\$395,497.35	\$13.30	\$325,703.70	
7	410	0247	RECYCLED ASPHALT PAVEMENT - SUPERPAVE FAA 42	TON	46,213	\$35.00	\$1,617,455.00	\$28.34	\$1,309,676.42	\$58.40	\$2,698,839.20	\$29.70	\$1,372,526.10	
8	410	0445	PG 58-28 ASPHALT CEMENT	TON	1,734	\$625.00	\$1,083,750.00	\$550.00	\$953,700.00	\$1.00	\$1,734.00	\$590.00	\$1,023,060.00	
9	410	0450	PG 58-34 ASPHALT CEMENT	TON	577	\$650.00	\$375,050.00	\$625.00	\$360,625.00	\$1.00	\$577.00	\$660.00	\$380,820.00	
10	410	9010	CORING BITUMINOUS SURFACING	EA	180	\$35.00	\$6,300.00	\$10.00	\$1,800.00	\$25.00	\$4,500.00	\$45.00	\$8,100.00	
11	411	0105	MILLING PAVEMENT SURFACE	SY	1,245	\$2.50	\$3,112.50	\$8.00	\$9,960.00	\$8.50	\$10,582.50	\$7.00	\$8,715.00	
12	702	0100	MOBILIZATION	L SUM	1	\$25,000.00	\$25,000.00	\$164,000.00	\$164,000.00	\$75,000.00	\$75,000.00	\$60,000.00	\$60,000.00	
13	704	0100	FLAGGING	MHR	554	\$25.00	\$13,850.00	\$20.00	\$11,080.00	\$1.00	\$554.00	\$31.90	\$17,672.60	
14	704	1100	TRAFFIC CONTROL	L SUM	1	\$6,000.00	\$6,000.00	\$7,217.20	\$7,217.20	\$10,000.00	\$10,000.00	\$7,000.00	\$7,000.00	
15	704	1185	PILOT CAR	HR	277	\$35.00	\$9,695.00	\$40.00	\$11,080.00	\$1.00	\$277.00	\$43.60	\$12,077.20	
16	706	0200	FIELD LABORATORY-TYPE C	EA	2	\$5,000.00	\$10,000.00	\$5,000.00	\$10,000.00	\$4,000.00	\$8,000.00	\$3,000.00	\$6,000.00	
17	708	2280	SEEDING-TYPE B-CL V	ACRE	2.0	\$600.00	\$1,200.00	\$1,250.00	\$2,500.00	\$1,250.00	\$2,500.00	\$615.00	\$1,230.00	
18	708	5500	MULCHING	ACRE	2.0	\$400.00	\$800.00	\$495.00	\$990.00	\$495.00	\$990.00	\$615.00	\$1,230.00	
19	760	0005	RUMBLE STRIPS-ASPHALT SHOULDER	MILE	179	\$500.00	\$89,500.00	\$269.00	\$48,151.00	\$400.00	\$71,600.00	\$625.00	\$111,875.00	
20	762	0122	PREFORMED PATTERNED PVMT MK-MESSAGE(GROOVED)	SF	377	\$25.00	\$9,425.00	\$14.89	\$5,613.53	\$14.89	\$5,613.53	\$15.30	\$5,768.10	
21	762	0405	SHORT TERM 4 IN BROKEN LINE-PNT TAPE OR RSD MRK	LF	20,025	\$0.15	\$3,003.75	\$0.239	\$4,785.98	\$0.239	\$4,785.98	\$0.25	\$5,006.25	
22	762	0410	SHORT TERM 4 IN LINE NPZ - PN TP OR RS MRK	LF	11,202	\$0.15	\$1,680.30	\$0.239	\$2,677.28	\$0.239	\$2,677.28	\$0.25	\$2,800.50	
23	762	1104	PVMT MK PAINTED 4IN LINE	LF	961,088	\$0.10	\$96,108.80	\$0.053	\$50,937.66	\$0.053	\$50,937.66	\$0.05	\$48,054.40	
24	762	1108	PVMT MK PAINTED 8IN LINE	LF	600	\$0.30	\$180.00	\$0.424	\$254.40	\$0.424	\$254.40	\$0.43	\$258.00	
						TOTAL =	\$3,968,812.35	TOTAL =	\$3,380,499.97	TOTAL =	\$3,415,435.40	TOTAL =	\$3,494,377.85	

CASS COUNTY HIGHWAY DEPARTMENT											
PROJECT NO. CH1101 BITUMINOUS SURFACING ON CASS HIGHWAY 4 FROM CASS HIGHWAY 11 TO CASS HIGHWAY 81				ESTIMATED QUANTITIES		ENGINEER'S ESTIMATE		KNIFE RIVER PO BOX 40 BEMIDJI, MN 56619		MAYO CONSTRUCTION PO BOX 310 CAVALIER, ND 58220	
ITEM	SPEC NO.	CODE	DESCRIPTION	UNIT	APPROX. QUANTITY	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
1	103	0100	CONTRACT BOND	L SUM	1	\$5,000.00	\$5,000.00	\$10,000.00	\$10,000.00	\$17,046.00	\$17,046.00
2	107	0102	RAILWAY PROTECTION INSURANCE	L SUM	1	\$2,500.00	\$2,500.00	\$400.00	\$400.00	\$1,000.00	\$1,000.00
3	203	0119	TOPSOIL - IMPORTED	CY	2,163	\$18.00	\$38,934.00	\$15.90	\$34,391.70	\$16.40	\$35,473.20
4	216	0100	WATER	M GAL	1,184	\$15.00	\$17,760.00	\$20.00	\$23,680.00	\$20.00	\$23,680.00
5	230	0301	SUBGRADE PREPARATION - TYPE A	MILE	5.5	\$2,500.00	\$13,750.00	\$1,000.00	\$5,500.00	\$5,520.00	\$30,360.00
6	302	0120	AGGREGATE BASE COURSE CL 5	TON	24,489	\$22.00	\$538,758.00	\$12.50	\$306,112.50	\$14.20	\$347,743.80
7	410	0247	RECYCLED ASPHALT PAVEMENT - SUPERPAVE FAA 42	TON	46,213	\$35.00	\$1,617,455.00	\$39.30	\$1,816,170.90	\$42.18	\$1,949,264.34
8	410	0445	PG 58-28 ASPHALT CEMENT	TON	1,734	\$625.00	\$1,083,750.00	\$446.00	\$773,364.00	\$527.27	\$914,286.18
9	410	0450	PG 58-34 ASPHALT CEMENT	TON	577	\$650.00	\$375,050.00	\$477.00	\$275,229.00	\$565.07	\$326,045.39
10	410	9010	CORING BITUMINOUS SURFACING	EA	180	\$35.00	\$6,300.00	\$15.00	\$2,700.00	\$31.90	\$5,742.00
11	411	0105	MILLING PAVEMENT SURFACE	SY	1,245	\$2.50	\$3,112.50	\$6.00	\$7,470.00	\$8.25	\$10,271.25
12	702	0100	MOBILIZATION	L SUM	1	\$25,000.00	\$25,000.00	\$66,800.00	\$66,800.00	\$296,950.00	\$296,950.00
13	704	0100	FLAGGING	MHR	554	\$25.00	\$13,850.00	\$22.00	\$12,188.00	\$32.00	\$17,728.00
14	704	1100	TRAFFIC CONTROL	L SUM	1	\$6,000.00	\$6,000.00	\$6,500.00	\$6,500.00	\$7,150.00	\$7,150.00
15	704	1185	PILOT CAR	HR	277	\$35.00	\$9,695.00	\$32.00	\$8,864.00	\$55.00	\$15,235.00
16	706	0200	FIELD LABORATORY-TYPE C	EA	2	\$5,000.00	\$10,000.00	\$3,500.00	\$7,000.00	\$4,000.00	\$8,000.00
17	708	2280	SEEDING-TYPE B-CL V	ACRE	2.0	\$600.00	\$1,200.00	\$600.00	\$1,200.00	\$650.00	\$1,300.00
18	708	5500	MULCHING	ACRE	2.0	\$400.00	\$800.00	\$600.00	\$1,200.00	\$650.00	\$1,300.00
19	760	0005	RUMBLE STRIPS-ASPHALT SHOULDER	MILE	179	\$500.00	\$89,500.00	\$440.00	\$78,760.00	\$432.74	\$77,460.46
20	762	0122	PREFORMED PATTERNED PVMT MK-MESSAGE(GROOVED)	SF	377	\$25.00	\$9,425.00	\$14.89	\$5,613.53	\$15.63	\$5,892.51
21	762	0405	SHORT TERM 4 IN BROKEN LINE-PNT TAPE OR RSD MRK	LF	20,025	\$0.15	\$3,003.75	\$0.24	\$4,806.00	\$0.25	\$5,006.25
22	762	0410	SHORT TERM 4 IN LINE NPZ - PN TP OR RS MRK	LF	11,202	\$0.15	\$1,680.30	\$0.24	\$2,688.48	\$0.25	\$2,800.50
23	762	1104	PVMT MK PAINTED 4IN LINE	LF	961,088	\$0.10	\$96,108.80	\$0.05	\$48,054.40	\$0.06	\$57,665.28
24	762	1108	PVMT MK PAINTED 8IN LINE	LF	600	\$0.30	\$180.00	\$0.42	\$252.00	\$0.45	\$270.00
						TOTAL =	\$3,968,812.35	TOTAL =	\$3,498,944.51	TOTAL =	\$4,157,670.16