

PROJECT NO.	PCN	SECTION NO.	SHEET NO.
SC-1200(100)	24562	1	1
IING SPECIFICATIONS	Date Published a by the North Department of T	and Adopted Dakota ransportation	
tandard Specifications	07/01/2	2024	
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le Micro-Surfacing & Crack Sealing acing & Crack Sealing le Micro-Surfacing & Crack Sealing	<u>NET MILES</u> <u>G</u> 9 2.999 11.661 13.883 9 5.694	ROSS MILE 2.999 11.661 13.883 5.694	<u>s</u>
Total	34.237	34.237	
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the attached plans were			
under my direct supervision registered professional laws of the state of ND.	This docum issued a Jason	ent was ori and sealed I. Mayfield	ginally by ,
03/03/2025		E-7877	original
n. Mayfield, P.E. /s/	docume Wold Eng	nt is stored gineering, I North Dako	l at P.C. ta
		SC-120	0(100)

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Number	Description
00 047(00)	

SP 647(23) Railroad Requirements DMVW

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	00 1200(100)	-	

Tube







NOTES

- 105-P01 PAVEMENT PROTECTION: The Contractor will protect the existing pavement outside the construction limits. The Contractor, at the Contractor's expense, will repair any pavement damaged due to their operations before the project will be accepted. Repairs may include, but are not limited to: sawing, removals and placing additional hot bituminous pavement to damaged areas.
- 109-P01 METHOD OF MEASUREMENT: The emulsified asphalt used on the project will be measured by certified tickets for each load delivered to the job site. The aggregate delivered to the selfpropelled microsurfacing machine will be weighed on a certified scale and approved by the Engineer, the individual tickets will be totaled on daily haul sheets for payment.
- SHOULDER PREPARATION: All vegetation that is within 4 feet of the asphalt shoulder will 230-P01 be chemically killed as per NDDOT Std. Specs. Sec. 230.04 B. The Contractor will mow the grass shoulders a minimum of ten (10) feet beyond the pavement edge and to a height not greater than three (3) inches just prior to application of the herbicide.
- 401-P01 FOG SEAL: The asphalt shoulders and approaches will receive a fog seal. The approaches will be broomed and all objectionable material will be removed from the approaches prior to the fog seal. The fog seal will commence immediately following the completion of the wearing course. The fog seal will be SS-1H or CSS-1H and will be applied at a rate of 0.10 gal/sy diluted. The fog seal will be diluted at the manufacture.
- 411-P01 MICRO MILLING: This work consists of micro-milling a bituminous pavement surface.

Use micro-milling equipment equipped with:

- Elevation controls that are accurate to within 1/16 inch;
- A cutting head that will create grooves that are a maximum of 1/8 inch deep and with ridges between grooves that are 0.2 inches wide;
- A minimum of 60 teeth per foot.

Micro-mill to a max depth of 3/8 inches by matching existing cross-slope and profile grade. Each lane will be micro-milled with a minimum of 12' per pass. Micro-mill to a uniform surface texture. Taper the micro-milling at the end of each run to match the non-milled segments. Sweep off dust, residue, and loose milled material from the surface before opening to traffic.

All of the milled asphalt will be removed from the project and delivered to the Reistad Pit located at Sec 24, TWP 162 N., RGE 100 W. for Location #1 and to the County Shop in Crosby for Location #4 and will become the property of Divide County. All costs associated with salvaging and delivering the millings will be included in the price bid for "Micro-Mill".

Such payment for "Micro-Mill" is full compensation for furnishing all materials, equipment, hauling, labor, and incidentals to complete the work as specified. Payment for micro-milling will be by the square yard based on the top width. The top width for Location #1 is 26 feet and the top width for Location #4 is 24 feet and 37 feet (see Basis of Estimate for widths). Sloughs or areas wider than widths for both Locations, if present, will not be measured for payment but will be incidental to the bid item "Micro-Mill".

421-P01 DOUBLE APPLICATION OF MICROSURFACING: Allow the first lift of microsurfacing to cure a minimum of 24 hours before placing the second lift of microsurfacing.

- the following Standard Drawings:
 - W20-7-48 only.
 - Signs W3-5-48, W22-8-48, and W20-52P-54 are not required.
 - 3. Standard D-704-22, Layouts K and L: For trucks hauling material.
 - 4. Standards D-704-7, 8, 9, 10, 11, 11A, 13, 14, and 26 are applicable.
- 704-P02 TRAFFIC CONTROL FOR PAVEMENT REPAIR AND CRACK CLEANING AND SEALING: separately.
- 704-P03 existing signing will not be bid separately but will be included in the traffic control items.
- PORTABLE RUMBLE STRIPS (PRS): Use PRS made of rubber or engineered polymers. 704-500

Install PRS as part of the temporary traffic control when the following signs are also part of the required traffic control setup.

- "Be Prepared to Stop" (W3-4) and
- "Flagger" symbol (W20-7)

Install PRS that meet the following criteria:

- Have no adhesives or fasteners required for placement;
- •
- Each strip in the array must weigh a minimum of 100 pounds.

Use individual PRS constructed in one of the following manners:

- A single piece:
- Interlocking segments; or
- Two pieces hinged at the midpoint.

An installed array of PRS consists of a minimum of 3 individual strips.

Move rumble strips with the flagging operation. Do not place rumble strips on horizontal curves.

The Engineer will count and measure each array as one unit. Include the cost of providing, installing, maintaining, and relocating PRS in the unit bid price for "Portable Rumble Strips".

762-P01 PAVEMENT MARKINGS: No short term pavement marking is required. "No Center Stripe" and "Do Not Pass" signs will be

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704-P01 TRAFFIC CONTROL FOR MICROSURFACING: Traffic control for microsurfacing will consist of a temporary road closure, flagging, and a pilot car. Traffic control devices will comply with

> 1. Standard D-704-15, Layout A: For temporary roadway closures just beyond the daily work areas during seal coat operations. Intermediate flagging stations will require signs

> 2. Standard D-704-20, Layout H: For construction signing during microsurfacing operations.

The required traffic control signs, flaggers and pilot car operations are included in the bid item for "Asph. Conc. Crack Clean and Sealing" and will not be measured and paid

COVER SIGNS: Existing signs requiring covering will be covered with durable covering such as plywood or pressed board so that no damage is done to the sign face. If any damage is done, the signs will be replaced at the Contractor's expense. Alternate methods of covering may be used if approved by the Engineer. The cost of providing material and covering

Have a manufacture's speed rating that meets or exceeds the posted speed limit; and



This document was Originally sealed by JASON I. MAYFIELD **Registration Number** PE-7877 on 03/03/2025 The original document is stored at Wold Engineering, P.C. Minot, North Dakota

<u>NOTES</u>

installed prior to microsurfacing operations and will remain in place until pavement marking bid item is completed. The pavement marking bid items will be completed between 14 and 21 days after the microsurfacing operations are completed. Pavement marking will not be measured for payment unless changes are made in the field. Payment for pavement marking will be plan quantity.

950-P01 ASPHALT CONCRETE CRACK CLEAN AND SEALING: The sealant material will conform to Standard Specifications Section 826.02 A.2. Crack cleaning and sealing will be completed a minimum of 1 week prior to the start of the microsurfacing. Cracks less than ³/₄ inch wide will be routed to a depth not to exceed ³/₄ of the router bit diameter. Cracks larger than ³/₄ inch do not need to be routed but will require use of backer rod before placement of sealant material. Cost of backer rod will be incidental to the bid item "Asph. Conc. Crack Clean and Sealing". The Contractor will be required to thoroughly clean the cracks with compressed air to remove all dirt, debris and loose material immediately prior to crack sealing and microsurfacing. Cracks will be free of moisture prior to crack sealing and microsurfacing. Cracks to be cleaned and sealed will be marked by the Engineer in the field.

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	SC-1200(100)	6	2
	This doc Originally JASON I. Registrati PE-7877 or The origin is sto Wold Engin Minot, No	wment w y sealed MAYFIE ion Num n 03/03/ al docur pred at neering, prth Dak	vas by ELD iber (2025 ment P.C.

Estimated Quantities

SPEC	CODE	ITEM DESCRIPTION	UNIT	LOCATION #1	LOCATION #2	LOCAT
103	0100	CONTRACT BOND	L SUM	0.09	0.34	
107	0102	RAILWAY PROTECTION INSURANCE-3 LOCATIONS	L SUM			
107	0140	RAILROAD COORDINATION	LSUM			
230	0125	SHOULDER PREPARATION	MILE	5.998	23.332	
401	0070	FOG SEAL	GAL	511	2064	
411	0150	MICRO-MILL	SY	45747		
421	0011	AGGREGATE FOR MICROSURFACING TYPE III	TON	1098	2134	
421	0020	ASPHALT EMULSION FOR MICROSURFACING	GAL	36168	70316	
702	0100	MOBILIZATION	L SUM	0.09	0.34	
704	0100	FLAGGING	MHR	120	467	
704	1000	TRAFFIC CONTROL SIGNS	UNIT	434	1245	
704	1048	PORTABLE RUMBLE STRIPS	EA	1	1	
704	1052	TYPE III BARRICADE	EA	2	2	
704	1067	TUBULAR MARKERS	EA	20	20	
704	1185	PILOT CAR	HR	60	234	
762	0114	EPOXY PVMT MK 6IN LINE	LF	11760	63150	
762	1104	PVMT MK PAINTED 4IN LINE	LF	31670	123138	
950	9750	ASPH CONC CRACK CLEAN & SEALING	LF	27180		

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	SC-1200(100)	8	1
ION #	#3 LOCATION #4	TOTAL	
0	.4 0.17	1	
0.3	0.67	1	
0.3	0.67	1	
27.76	6 11.388	68.484	
222	29 1045	5849	
	83908	129655	
508	2021	10335	
16743	66464	340378	
0	.4 0.17	1	
55	5 228	1370	
150	0 878	4057	
	1 1	4	
	4 4	12	
2	20 20	80	
27	78 114	686	
4197	22345	139225	
14661	0 60140	361558	
12578	51588	204548	

BASIS OF ESTIMATE - MARKING LOCATION #1 CMC 1203

PAVEMENT MARKING PAINTED LINE (PERMANENT)

CENTERLINE - 6" EPOXY YELLOW, 10 FT LINES, 30 FT SKIP (1,320 LF/MILE)

BARRIER LINES - 6" EPOXY YELLOW, 4" BETWEEN LINES

EDGE LINES - 4" WHITE, 10,560 LF/MILE

BARRIER LINES:

STA. 689+00 TO 693+00 LT	400 LF
STA. 700+00 TO 704+00 RT	400 LF
STA. 705+00 TO 740+00 LT	3,500 LF
STA. 715+00 TO 750+00 RT	3,500 LF

BARRIER TOTAL = 7,800 LF

CENTERLINE TOTAL = 3,960 LF

EDGE LINE = 31,670 LF

PERMANENT PAVEMENT MARKING TOTAL = 43,430 LF

								STATE.	PRC	DJECT NO.	SECTION NO.	NO.
								ND	SC-1	200(100)	10	1
		BA	ASIS OF	ESTIMAT	E - I	ROADWAY LO	CAT	ION #1 C	MC 1203			
STA. 615+69 TO STA	. 774+02	(2.999 mil	les)									
QUANTITY PER MILE	WIDT	H UNIT	TOTAL					DESCRIP	TION			
15,254	26'	SY	45,747	MICRO-MILL								
183	24'	TON	549	AGGREGATE	FOR N	ICROSURFACING (TYPE II	I) AT 26 LB/S	Y (SCRATCH CO	URSE)		
183	26'	TON	549	AGGREGATE	FOR N	AICROSURFACING (TYPE II	I) AT 24 LB/S	Y (WEARING CO	URSE)	TOUL OOL	
6,030	24'	GAL	18,084	EMULSION FO			S-1Hp) AT 14% OF	AGGR. WEIGHT	& 8.5 LBS/GAL (SCRA		RSE)
119	26'	GAL	18,084	EMOLSION FO		CRUSURFACING (CC	<u>i</u> s-1µþ) AT 14% OF	AGGR. WEIGHT	& 8.5 LBS/GAL (WEAF		RSE)
110	4	GAL	354	TOG JLAL AT	0.05	GAL/31 (C33-11)						
BVCIC		CTIMA.						10 1202				
DAJIJ						LOCATION #			T A1			
		ON 774 + 02 (7		UNIT QUANTITY PER MILE TOTAL								
CRACKS STA. 015+09 1	0 51A. 7	//4+02 (2	2.999 miles)			9,060		27	,100			
	FOTIN	4 A T E			~ ^ T		1 2 0 7	`				
BASIS OF	ESTIM	IAIE -	APPROA	CHES LO	CAI	ION #1 CMC	120.	3				
DESCRIPTION		UNIT	SEC. LN	. PR. DR'	V.	FIELD APPR	٦	TOTAL			WO	LD
	<u> </u>		(6)	(2)		(9)		4 5 7		SINCE 1955	ENGINEER	ING, P.C.
EMUL. ASPHALT (FUG SE	AL)	GAL	20	14		1		157				
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									В	ASIS OF ESTIM	ATE	
										LOCATION #	1	

							STATE.	PRC	JECT NO.	SECTION NO.	SHEET NO.
							ND	SC-1	200(100)	10	1
		BA	SIS OF	ESTIMATE	- ROADWAY LO	CATIC	DN #1 (LMC 1203			
STA. 615+69 TO STA	. 774+02 (2	2.999 mile	s)				DECONT				
QUANTITY PER MILE	WIDTH	UNIT	TOTAL				DESCRI	FIION			
15,254	26'	SY	45,747	MICRO-MILL							
183	24'	TON	549	AGGREGATE FO	OR MICROSURFACING (TYPE III)	AT 26 LB/	SY (SCRATCH CO	JRSE)		
183	26'	TON	549	AGGREGATE FO	DR MICROSURFACING (TYPE III)	AT 24 LB/	SY (WEARING CO	URSE)		
6,030	24'	GAL	18,084	EMULSION FOR	MICROSURFACING (C	QS-1Hp) A	AT 14% OF	AGGR. WEIGHT	& 8.5 LBS/GAL (SCRA	TCH COU	RSE)
6,030	26'	GAL	18,084	EMULSION FOR	MICROSURFACING (C	QS-1Hp) /	AT 14% OF	- AGGR. WEIGHT	& 8.5 LBS/GAL (WEAF	RING COU	RSE)
118	4	GAL	354	FUG SEAL AT U	.05 GAL/ST (CSS-IR)						
		ттки л т					1 2 0 2				
DA315			E - CRA		NG LOCATION #		_ 1205				
DESC		$\frac{1}{1+02}$	000	UNIT QUANTITY PER MILE TOTAL							
CRACKS STA. 015+09 T	U STA. 774	4+02(2.	999 miles)		9,060		Z	7,180			
	COTINA					1202		7			
BASIS OF	ESTIMA	AIE - /	APPROA	CHES LOC	ATION #1 CMC	1203		_			
DESCRIPTION	UI	NIT	SEC. LN.	PR. DRV	. FIELD APPR	то	TAL			WO	
EMUL ASPHALT (FOG SE			(0)	(2)	(9)	1	57	_	SINCE 1955	ENGINEER	ING, P.C.
LHOL ASPHALI (I OG SL		JAL	20	14		1	.57				
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								B	ASIS OF ESTIM	ATE	
									LOCATION #	1	

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		BA	SIS OF	ESTIMATI	E -	ROADWAY LO	CAT	ION #1	CMC 1203			
STA. 615+69 TO STA	. 774+02	2 (2.999 mile	es)									
QUANTITY PER MILE	WIDT	H UNIT	TOTAL					DESCR	IPTION			
15,254	26'	SY	45,747	MICRO-MILL								
183	24'	TON	549	AGGREGATE	FOR	MICROSURFACING (TYPE II	II) AT 26 LB	/SY (SCRATCH CO	URSE)		
183	26'	TON	549	AGGREGATE	FOR	MICROSURFACING (TYPE II	II) AT 24 LB	/SY (WEARING CC	URSE)		
6,030	24'	GAL	18,084	EMULSION FO	DR M	ICROSURFACING (CC)S-1Hp	o) AT 14% C	F AGGR. WEIGHT	& 8.5 LBS/GAL (SCRA	тсн сои	RSE)
6,030	26'	GAL	18,084	EMULSION FO	DR M	ICROSURFACING (CC)S-1Hp	o) AT 14% C	F AGGR. WEIGHT	& 8.5 LBS/GAL (WEAF	RING COU	RSE)
118	4'	GAL	354	FOG SEAL AT	0.05	GAL/SY (CSS-1H)						
										1		
BASIS	OF E	STIMAT	re - CRA	ACK SEAL	[NG	GLOCATION #	1 CN	1C 1203				
DESC	CRIPTI	ON		UNIT QUANTITY PER MILE TOT/					OTAL			
CRACKS STA. 615+69 T	O STA. 7	774+02 (2	.999 miles)	LF		9,060		:	27,180			
BASIS OF	ESTIN	MATE -	APPROA	CHES LO	CA	FION #1 CMC	1203	3				
			SEC. I.N.	PR. DR	V.	FIELD APPR			_			
DESCRIPTION		UNIT	(6)	(2)		(9)	٦	TOTAL				
EMUL. ASPHALT (FOG SE	AL)	GAL	20	14		1		157			ENGINEER	(INC, P.C.
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										Minot, N	iorin Dakot	a
									B	ASIS OF ESTIM	ATE	
										LOCATION #	1	

BASIS OF ESTIMATE - MARKING LOCATION #2 CMC 1203

PAVEMENT MARKING PAINTED LINE (PERMANENT) CENTERLINE - 6" EPOXY YELLOW, 10 FT LINES, 30 FT SKIP (1,320 LF/MILE) BARRIER LINES - 6" EPOXY YELLOW, 4" BETWEEN LINES EDGE LINES - 4" WHITE, 10,560 LF/MILE

BARRIER LINES:

STA. 0+00 TO 7+50 LT	750 LF
STA. 48+20 TO 61+30 RT	1,310 LF
STA. 60+30 TO 75+20 LT	1,490 LF
STA. 109+10 TO 122+20 RT	1,310 LF
STA. 122+20 TO 129+80 LT	760 LF
STA. 134+00 TO 170+10 LT & RT	7,220 LF
STA. 171+20 TO 184+50 RT	1,330 LF
STA. 182+50 TO 196+20 LT	1,370 LF
STA. 198+80 TO 207+20 RT	840 LF
STA. 207+20 TO 223+50 LT	1,630 LF
STA. 237+30 TO 245+70 RT	840 LF
STA. 244+70 TO 256+20 LT	1,150 LF
STA. 278+40 TO 295+20 RT	1,680 LF
STA. 293+60 TO 310+60 LT	1,700 LF
STA. 329+40 TO 343+60 RT	1,420 LF
STA. 342+10 TO 360+10 LT	1,800 LF
STA. 395+20 TO 429+40 LT & RT	6,840 LF
STA. 436+20 TO 447+00 RT	1,080 LF
STA. 447+00 TO 455+40 LT	840 LF
STA. 455+20 TO 464+20 RT	900 LF
STA. 466+20 TO 479+30 LT	1,310 LF
STA. 492+00 TO 529+40 LT & RT	7,480 LF
STA. 532+50 TO 553+90 RT	2,140 LF
STA. 550+20 TO 555+40 LT	520 LF
BARRIER TOTAL =	47,710 LF
CENTERLINE TOTAL =	15,440 LF
EDGE LINE =	123,138 LF
PERMANENT PAVEMENT MARKING TOTAL =	186,288 LF

BASIS OF ESTIMATE - ROADWAY LOCATION #2 CMC 1203									
	s)	.661 miles	615+69 (11	STA. 0+00 TO STA.					
L DESCRIPTION	TOTAL	UNIT	WIDTH	QUANTITY PER MILE					
AGGREGATE FOR MICROSURFACING (TYPE III) AT 24 LB/SY (WEAR	2,134	TON	26'	183					
6 EMULSION FOR MICROSURFACING (CQS-1Hp) AT 14% OF AGGR. W	70,316	GAL	26'	6,030					
5 FOG SEAL AT 0.05 GAL/SY (CSS-1H)	1,375	GAL	4'	118					

BASIS OF ESTIMATE - APPROACHES LOCATION #2 CMC 1203

DESCRIPTION	UNIT	SEC. LN. (20)	PR. DRV. (17)	FIELD APPR (51)	ΤΟΤΑ
EMUL. ASPHALT (FOG SEAL)	GAL	20	14	1	689

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SCRIPTION

24 LB/SY (WEARING COURSE)

4% OF AGGR. WEIGHT & 8.5 LBS/GAL (WEARING COURSE)





This document was originally issued and sealed by Jason I. Mayfield, **Registration Number** PE-7877 on 03/03/2025 and the original document is stored at Wold Engineering, P.C. Minot, North Dakota

BASIS OF ESTIMATE LOCATION #2

BASIS OF ESTIMATE - MARKING LOCATION #3 CMC 1207

PAVEMENT MARKING PAINTED LINE (PERMANENT)

CENTERLINE - 6" EPOXY YELLOW, 10 FT LINES, 30 FT SKIP (1,320 LF/MILE)

BARRIER LINES - 6" EPOXY YELLOW, 4" BETWEEN LINES

EDGE LINES - 4" WHITE, 10,560 LF/MILE

BARRIER LINES:

STA. 382+00 TO 387+25 RT	525 LF
STA. 391+25 TO 396+00 LT	475 LF
STA. 507+00 TO 514+75 RT	775 LF
STA. 514+75 TO 521+50 LT	675 LF
STA. 541+75 TO 549+00 RT	725 LF
STA. 550+75 TO 557+75 LT	700 LF
STA. 758+30 TO 768+30 RT	1,000 LF
STA. 768+30 TO 778+30 LT	1,000 LF
STA. 781+30 TO 787+80 RT	650 LF
STA. 791+30 TO 797+50 LT	620 LF
STA. 813+80 TO 824+00 RT	1,020 LF
STA. 824+00 TO 834+30 LT	1,030 LF
STA. 837+30 TO 851+50 RT	1,420 LF
STA. 847+00 TO 861+80 LT	1,480 LF
STA. 897+30 TO 907+80 RT	1,050 LF
STA. 905+30 TO 915+80 LT	1,050 LF
STA. 916+00 TO 925+10 RT	910 LF
STA. 925+60 TO 932+00 LT	640 LF
STA. 941+80 TO 949+30 RT	750 LF
STA. 949+30 TO 955+80 LT	650 LF
STA. 984+30 TO 1000+30 RT	1,600 LF
STA. 993+80 TO 1010+30 LT	1,650 LF
STA. 1021+80 TO 1047+55 RT	2,575 LF
STA. 1036+80 TO 1043+50 LT	670 LF
BARRIER TOTAL =	23,640 LF
CENTERLINE TOTAL =	18,330 LF
EDGE LINE =	146,610 LF

PERMANENT PAVEMENT MARKING TOTAL = 188,580 LF

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								ND	SC-12	200(100)	10	3
											I	
		BA	ASIS OF	ESTIMAT	E - F	ROADWAY LC	CATI	ON #3 CM	4C 1207			
STA. 317+04 TO STA.	1050+06 (2	 L3.883 m	niles)									
QUANTITY PER MILE	WIDTH	UNIT	TOTAL					DESCRIP	TION			
183	24'	TON	2,541	AGGREGATE	FOR N	MICROSURFACING	TYPE II	I) AT 26 LB/SY	Y (SCRATCH COL	JRSE)		
183	26'	TON	2,541	AGGREGATE	FOR N	MICROSURFACING	TYPE II	I) AT 24 LB/SY	Y (WEARING COU	URSE)		
6,030	24'	GAL	83,715	EMULSION FO	OR MI	CROSURFACING (C	QS-1Hp) AT 14% OF A	AGGR. WEIGHT 8	& 8.5 LBS/GAL (SC	RATCH COU	RSE)
6,030	26'	GAL	83,715	EMULSION FO	OR MI	CROSURFACING (C	QS-1Hp) AT 14% OF A	AGGR. WEIGHT 8	& 8.5 LBS/GAL (WE	ARING COL	IRSE)
118	4'	GAL	1,639	FOG SEAL AT	0.05	GAL/SY (CSS-1H)						
BASIS	OF ES	ΓΙΜΑ	TE - CRA	CK SEALI	ING	LOCATION #	3 CM	C 1207				
DESC	CRIPTION	١		UNIT	QL	JANTITY PER M	LE	ТОТ	AL			
CRACKS STA. 317+04 TC	STA. 1050)+06 (1	.3.883 miles)	LF		9,060		125,7	780			
BASIS OF	ESTIMA	ATE -	APPROA	CHES LOO	CAT	ION #3 CMC	1207					
		лт	SEC. LN.	PR. DR	V.	FIELD APPR	т	ΟΤΑΙ		1	t	
DESCRIPTION		11	(20)	(10)		(50)	I					
EMUL. ASPHALT (FOG SE	AL) G	iAL	20	14		1		590		SINCE 1955		
											ENGINEER	(1907 - 20.
											•	
										This docu	ment was ori	ginally
										Issued	and sealed	бу
										Regis	tration Numb	, er
											PE-7877	
										on 03/03/2	025 and the	original
										docum Wold F	ient is stored naineerina F	at P C
										Minot	, North Dako	ta
									D			
									B/		IVIA I ⊑ #3	
										LOCATION	π J	

							STATE.	PROJECT	NO.	SECTION NO.	SHEET NO.
							ND	SC-1200	0(100)	10	3
		B	ASIS OF E	STIMATE	- ROADWAY LC	CATI	ON #3 CM	IC 1207			
STA. 317+04 TO STA.	1050+06	(13.883 n	niles)				DECODID				
QUANTITY PER MILE	WIDTH	I UNIT	TOTAL				DESCRIPT	ION			
183	24'	TON	2,541	AGGREGATE FO	R MICROSURFACING	TYPE III) AT 26 LB/SY	(SCRATCH COURS	SE)		
183	26'	TON	2,541	AGGREGATE FO	R MICROSURFACING	(TYPE III) AT 24 LB/SY	WEARING COURS	5E)	7011 0011	
6,030	24'	GAL	83,715	EMULSION FOR	MICROSURFACING (C	$\frac{QS-1Hp}{QS-1Hp}$	AT 14% OF A	GGR. WEIGHT & 8	.5 LBS/GAL (SCRA		RSE)
6,030	26'	GAL	83,/15	EMULSION FOR	MICRUSURFACING (C	QS-IHP)	AT 14% OF A	GGR. WEIGHT & 8	.5 LBS/GAL (WEAF	RING COU	RSE)
118	4	GAL	1,039	OG SEAL AT U.	05 GAL/ST (CSS-1R)						
BASIS	OF ES	STIMA	IE - CRAC	CK SEALIN	G LOCATION #	3 CM0	21207				
DESC	CRIPTIO	N		UNIT	QUANTITY PER MI	ILE	TOT	AL			
CRACKS STA. 317+04 TO	STA. 105	50+06 (1	.3.883 miles)	LF	9,060		125,7	780			
BASIS OF	ESTIM	ATE -	APPROAC	CHES LOCA	TION #3 CMC	1207					
DECODIDITION			SEC. LN.	PR. DRV.	FIELD APPR	т			٠.		
DESCRIPTION			(20)	(10)	(50)	TC TC	JIAL				
EMUL. ASPHALT (FOG SE	AL)	GAL	20	14	1	!	590		-{W}-	WO	LD
									SINCE 1955	ENGINEER	ING, P.C.
									This docume	ent was orig	jinally
									issued a	nd sealed b	by
									Jason	I. Mayfield,	
									Registra	tion Numbe -7877	er
									on 03/03/202	5 and the c	original
									documer	t is stored	at
									Wold Eng	ineering, P	.C.
									Minot, N	orth Dakot	a
								RAS	IS OF ESTIM	ATF	
										3	
										-	
								1			

						STAT	E. PRO	DJECT NO.	SECTION NO.	SHEET NO.
						N) SC-1	200(100)	10	3
							1	- /		
		BA	ASIS OF I	ESTIMATE	- ROADWAY LO	DCATION #3	8 CMC 1207			
STA. 317+04 TO STA.	1050+06 ((13.883 m	niles)			DECC				
QUANTITY PER MILE	WIDTH	UNIT	TOTAL			DESC	RIPTION			
183	24'	TON	2,541	AGGREGATE	FOR MICROSURFACING	(TYPE III) AT 26	_B/SY (SCRATCH CO	URSE)		
183	26'	TON	2,541	AGGREGATE I	FOR MICROSURFACING	(TYPE III) AT 24	B/SY (WEARING CC	DURSE)	ATCULOOU	
6,030	24'	GAL	83,/15	EMULSION FC	R MICROSURFACING (C	QS-1Hp) AT 14%	OF AGGR. WEIGHT	& 8.5 LBS/GAL (SCI		RSE)
119	26	GAL	1 639			QS-IND) AT 14%	OF AGGR. WEIGHT	& 0.5 LDS/GAL (WE	ARING COU	RSE)
110	4	GAL	1,039	TOG SLAL AT	0.05 GAL/51 (C35-111)					
DACIC						2 CMC 120	7			
BASIS	OF ES	AMILI	IE - CRA		NG LOCATION #	3 CMC 120	/			
DESC	CRIPTIO	N		UNIT	QUANTITY PER M	ILE	TOTAL			
CRACKS STA. 317+04 TO	STA. 105	50+06 (1	.3.883 miles)	LF	9,060		125,780			
BASIS OF	ESTIM	ATE -	APPROA	CHES LOC	CATION #3 CMC	1207				
			SEC. LN.	PR. DRV	'. FIELD APPR	ΤΟΤΑΙ		1	r i	
DESCRIPTION			(20)	(10)	(50)	TOTAL				
EMUL. ASPHALT (FOG SE	AL)	GAL	20	14	1	590		SINCE 1955		
									ENGINEER	ING, PIC.
								This docur	nent was orig	jinally
								issued	and sealed b	ру
								Jaso	n I. Mayfield, ration Numbe	ar
								regist	PE-7877	51
								on 03/03/20)25 and the c	original
								docum	ent is stored	at
								Wold El	ngineering, P	.C.
								iviiriot,		a
							В	ASIS OF ESTI	MATE	
								LOCATION #	# 3	



BASIS OF ESTIMATE - MARKING LOCATION #4 CMC 1235

PAVEMENT MARKING PAINTED LINE (PERMANENT)

CENTERLINE - 6" EPOXY YELLOW, 10 FT LINES, 30 FT SKIP (1,320 LF/MILE)

BARRIER LINES - 6" EPOXY YELLOW, 4" BETWEEN LINES

EDGE LINES - 4" WHITE, 10,560 LF/MILE

BARRIER LINES:

STA. 0+00 TO 8+50 LT	850 LF
STA. 20+00 TO 72+00 RT	5,200 LF
STA. 26+00 TO 80+00 LT	5,400 LF
STA. 267+00 TO 283+10 RT	1,610 LF
STA. 273+85 TO 283+10 LT	925 LF
STA. 292+10 TO 300+60 RT	850 LF
BADDIED TOTAL - 14 835 F	

14,635 LF	BARRIER TOTAL =
7,510 LF	CENTERLINE TOTAL =
60,140 LF	EDGE LINE =
82,485 LF	PERMANENT PAVEMENT MARKING TOTAL =

							STATE.	PRO	DJECT NO.		SECTION	SHEET
								SC-1	200(100)	10	<u>NO.</u>
								30-1	200(100)	10	4
		BA	SIS OF	ESTIMATE -	ROADWAY LO	CATIO	N #4 C	MC 1235				
STA. 0+00 TC	O STA. 36+6	5 &										
62+40 TO STA. 30	00+66 (5.20	7 miles)	1	-			DESCRI	PTION				
QUANTITY PER MILE	WIDTH	UNIT	TOTAL				DESCI	11011				
14,080	24'	SY	73,315	MICRO-MILL								
168	22'	TON	875	AGGREGATE FOR	MICROSURFACING (TYPE III)	AT 26 LB/S	SY (SCRATCH CO	URSE)			
169	24'	TON	880	AGGREGATE FOR	MICROSURFACING (TYPE III)	AT 24 LB/9	SY (WEARING CC	URSE)			
5,528	22'	GAL	28,785	EMULSION FOR M	IICROSURFACING (CO	QS-1Hp) A	AT 14% OF	AGGR. WEIGHT	& 8.5 LBS	GAL (SCRA	TCH COU	RSE)
5,566	24'	GAL	28,983	EMULSION FOR M	IICROSURFACING (CO	QS-1Hp) A	AT 14% OF	AGGR. WEIGHT	& 8.5 LBS	6/GAL (WEAF	RING COU	RSE)
118	4'	GAL	615	FOG SEAL AT 0.0	5 GAL/SY (CSS-1H)							
STA. 36+65 TO STA	A. 62+40 (0.4	488 miles	5)									
21,707	37'	SY	10,593	MICRO-MILL								
267	35'	TON	131	AGGREGATE FOR	MICROSURFACING (TYPE III)	AT 26 LB/9	SY (SCRATCH CO	URSE)			
261	37'	TON	128	AGGREGATE FOR	MICROSURFACING (TYPE III)	AT 24 LB/S	SY (WEARING CC	URSE)			
8,794	35'	GAL	4,292	EMULSION FOR M	IICROSURFACING (CO	QS-1Hp) A	AT 14% OF	AGGR. WEIGHT	& 8.5 LBS	GAL (SCRA	тсн сои	RSE)
8,581	37'	GAL	4,188	EMULSION FOR M	IICROSURFACING (CO	QS-1Hp) A	AT 14% OF	AGGR. WEIGHT	& 8.5 LBS	GAL (WEAF	RING COU	RSE)
CEMETERY PARKING	G AREA STA.	112+70	TO STA. 115	+70 (0.057 miles)								
115	15'	TON	7	AGGREGATE FOR	MICROSURFACING (TYPE III)	AT 26 LB/9	SY (WEARING CC	URSE)			
3789	15'	GAL	216	EMULSION FOR M	IICROSURFACING (CO)S-1Hp) A	AT 14% OF	AGGR. WEIGHT	& 8.5 LBS	GAL (WEAF	RING COU	RSE)
		_	-		、 、	c 17				· · · ·		,
DACIC							1225]			
BASIS	OF ES	IIMA	E - CR/	ACK SEALING	S LOCATION #		. 1235				WO	LD
DESC	CRIPTION	١		UNIT	QUANTITY PER M		тс	DTAL	-	SINCE 1955	ENGINEER	ING, P.C.
CRACKS STA. 0+00 TO) STA. 300-	+66 (5.6	94 miles)	LF	9,060		51	.,588				
								1		This docume	ent was orig	ginally
BASIS OF	ESTIMA	ATE -	APPROA	ACHES LOCA	TION #4 CMC	1235				issued a	nd sealed b	ру
		лт	SEC. LN	. PR. DRV.	FIELD APPR	то				Jason	I. Mayfield,	~ ~
DESCRIPTION		111	(13)	(11)	(16)	10	TAL			Registra	11101 Numbe =-7877	er
EMUL. ASPHALT (FOG SE	AL) G	GAL	20	14	1	4	30			on 03/03/202	5 and the c	original
										documer	nt is stored	at
										Wold Eng	gineering, P	P.C.
										wintot, r		a
								В	ASIS C	F ESTIM	IATE	
								1	LOC	ATION #4	4	

DESCRIPTION	UNIT	QUANTITY PER MILE	
CRACKS STA. 0+00 TO STA. 300+66 (5.694 miles)	LF	9,060	

BASIS OF EST	IMATE -	APPROAC	HES LOCAT	TION #4 CMC	1235
DESCRIPTION	UNIT	SEC. LN.	PR. DRV.	FIELD APPR	тот



STATE.	PROJECT NO.	SECTION NO.	SHEET NO.
ND	SC-1200(100)	20	1

Sealant Filled Sufficiently to Cover Both Edges of the Routed Crack and Filled to a Depth $\frac{1}{4}$ " Below the Pavement Surface

This document was originally issued and sealed by Jason I. Mayfield, Registration Number PE-7877 on 03/03/2025 and the original document is stored at Wold Engineering, P.C. Minot, North Dakota

GENERAL DETAILS **APPROACHES &** CRACK SEALING



TATE.	PROJECT NO.	SECTION NO.	SHEET NO.
ND	SC-1200(100)	30	1
		30	
	This docume issued a Jason Registra PE on 03/03/202 documer Wold Eng Minot, N	ent was ori nd sealed I. Mayfield tion Numb 5 and the nt is stored ineering, F lorth Dako	ginally by , er original at 2.C. ta
	EXISTING TYPICAL SI LOCATIONS #1 &	ECTIO & #2	NS



STATE.	PROJECT NO.	SECTION NO.	SHEET NO.
ND	SC-1200(100)	30	2
	This docume issued a Jason Registra PE on 03/03/202 documer Wold Enc	ent was ori nd sealed I. Mayfield tion Numb E-7877 5 and the on t is stored	ginally by er original at
	EXISTING TYPICAL SI LOCATIONS #3 &	ECTIO	nS



STATE.	PROJECT NO.	SECTION NO.	SHEET NO.
ND	SC-1200(100)	30	3
	This docume issued a Jason Registra PE on 03/03/202 documer Wold Eng Minot, N	ent was ori nd sealed I. Mayfield tion Numb E-7877 5 and the nt is stored jineering, F lorth Dako	ginally by er original at P.C. ta
	REMOVAL TYPICAL S LOCATIONS #1 8	ECTIO & #4	NS





CMC 1203: STA. 0+00 TO 615+69 LOCATION #2

STATE.	PROJECT NO.	SECTION NO.	SHEET NO.
ND	SC-1200(100)	30	4
		30	4
	This docume issued a Jason Registra PE on 03/03/202 documer Wold Eng Minot, N	ent was ori nd sealed 1. Mayfield tion Numb 5 and the tis stored jineering, F lorth Dako	ginally by er original at 2.C. ta
	PROPOSED TYPICAL S LOCATIONS #1 &	SECTIO & #2	ONS



STATE.	PROJECT NO.	SECTION NO.	SHEET NO.
ND	SC-1200(100)	30	5
	SINCE 1955		PLD RING, P.C.
	This docu issued Jase Regis on 03/03/2 docun Wold E Minot	ment was ori d and sealed on I. Mayfield tration Numb PE-7877 2025 and the nent is stored Engineering, F	ginally by l, eer original I at ⊃.C. ta
	PROPOSED TYPICAL LOCATIONS #3	_ SECTIO 3 & #4	ONS

SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
E5-1-48	48"x48"	EXIT GORE		35	
G20-1-60	60"x24"	ROAD WORK NEXT MILES	6	28	168
G20-1b-60	60"X24"	NO WORK IN PROGRESS (Sign and installation only)	6	18 26	156
G20-2-40 G20-4-36	40 x24 36"x18"	PILOT CAR FOLLOW ME (Mounted to back of pilot car)	1	18	130
G20-4b-36	36"x30"	WAIT FOR PILOT CAR		18	
G20-50a-72	72"x36"	ROAD WORK NEXT MILES RT & LT ARROWS	32	43	1376
G20-52a-72	72"x24"		2	36 50	72
G20-55-96 M1-1-36	96 x46 36"x36"	INTERSTATE ROUTE MARKER (Post and installation only)		59 11	
M1-4-24	24"x24"	U.S. ROUTE MARKER (Post and installation only)		10	
M1-5-24	24"x24"	STATE ROUTE MARKER (Post and installation only)		10	
M3-1-24	24"x12"	NORTH (Mounted on route marker post)		7	
M3-2-24	24"x12"	EAST (Mounted on route marker post)		7	
M3-4-24	24 X12 24"x12"	WEST (Mounted on route marker post)		7	
M4-8-24	24"x12"	DETOUR (Mounted on route marker post)		7	
M4-9-30	30"x24"	DETOUR ARROW RIGHT or LEFT/AHD AND RT or LT		15	
M4-10-48	48"x18"	DETOUR (INSIDE ARROW) RIGHT or LEFT (Mounted on barricade)		7	
M5-1-21	21"x15"	ADVANCE TURN ARROW RT or LT(Mounted on route marker post)		7	
M6-1-21	30"X21" 21"v15"	ADVANCE TURN ARROW RT or LT (Mounted on route marker post)		9	
M6-1-30	30"x21"	DIRECTIONAL ARROW RT or LT (Mounted on route marker post)		9	
M6-3-21	21"x15"	DIRECTIONAL ARROW UP (Mounted on route marker post)		7	
R1-1-48	48"x48"	STOP		32	
R1-2-60	60"x60"	YIELD		29	
R2-1-30	30 X48" 48"y60"		14	30 39	546
R2-1aP-24	24"x18"	MINIMUM FEE \$80 (Mounted on Speed Limit post)	14	10	140
R3-2-48	48"x48"	NO LEFT TURN		35	
R4-1-48	48"x60"	DO NOT PASS	14	39	546
R4-7-48	48"x60"	KEEP RIGHT		39	
R5-1-48 R6-1-54	48"X48" 54"x18"	DO NOT ENTER ONE WAY RIGHT or LEET (Mounted on STOP or DO NOT ENTER nost)		35 14	
R7-1-12	12"x18"	NO PARKING ANY TIME		11	
R10-6-24	24"x36"	STOP HERE ON RED		16	
R11-2-48	48"x30"	ROAD CLOSED (Mounted on barricade)		12	
R11-2a-48	48"x30"	STREET CLOSED (Mounted on barricade)		12	
R11-3a-60 R11-3c-60	60"x30"	ROAD CLOSEDMILES AHEAD LOCAL TRAFFIC ONLY (Mit on barricade)		15	
R11-4a-60	60"x30"	STREET CLOSED TO THRU TRAFFIC (Mounted on barricade)		15	
W1-3-48	48"x48"	REVERSE TURN RIGHT or LEFT		35	
W1-4-48	48"x48"	REVERSE CURVE RIGHT or LEFT		35	
W1-4b-48	48"x48"	TWO LANE REVERSE CURVE RIGHT or LEFT		35	
W3-1-48	48"x24" 48"x48"	ONE DIRECTION LARGE ARROW		20	
W3-3-48	48"x48"	SIGNAL AHEAD		35	
W3-4-48	48"x48"	BE PREPARED TO STOP	4	35	140
W3-5-48	48"x48"	SPEED REDUCTION AHEAD	3	35	105
W4-2-48	48"x48"	LANE ENDS RIGHT or LEFT		35	
W5-8-48	40 X40 48"x48"	THRU TRAFFIC RIGHT LANE		35	
W5-9-48	48"x48"	ROAD WORK TRAFFIC ONLY DOWN & LT or RT ARROW		35	
W6-3-48	48"x48"	TWO WAY TRAFFIC		35	
W8-1-48	48"x48"			35	
W8-3-48	48"x48"			35	
W8-11-48	40 X48" 48"x48"	UNEVEN		35 35	
W8-12-48	48"x48"	NO CENTER LINE	14	35	490
W8-17-48	48"x48"	SHOULDER DROP-OFF SYMBOL		35	
W8-53-48	48"x48"	TRUCKS ENTERING HIGHWAY		35	
W8-54-48	48"x48"			35	
vvo-00-48 W8-56-48	40 X48" 48"x48"		1	35	
W9-3a-48	48"x48"	CENTER LANE CLOSED SYMBOL	1	35	
W13-1P-30	30"x30"	MPH ADVISORY SPEED PLAQUE (Mounted on warning sign post)		14	
W14-3-64	64"x48"	NO PASSING ZONE		28	
W16-2P-30	30"x24"	EET PLAQUE (Mounted on warning sign post)		10	
vv∠0-1-48 W20-2-49	48"x48"			35	
W20-2-40	48"x48"	ROAD or STREET CLOSED AHEAD or FT or MILE		35	
W20-4-48	48"x48"	ONE LANE ROAD AHEAD or FT or MILE		35	
W20-5-48	48"x48"	RIGHT or CENTER or LEFT LANE CLOSED AHEAD or FT or MILE		35	
W20-7-48	48"x48"	FLAGGER	4	35	140
W20-8-18	18"x18"	STOP - SLOW PADDLE Back to Back	4	5 10	20
vv∠u-5∠P-54 W21-1-48	24 X12" 48"x48"	WORKERS		35	
W21-2-48	48"x48"	FRESH OIL		35	
W21-3-48	48"x48"	ROAD MACHINERY AHEAD or FT or _ MILE		35	
W21-5-48	48"x48"	SHOULDER WORK		35	
W21-5a-48	48"x48"	RIGHT or LEFT SHOULDER CLOSED		35	
vv∠1-5D-48	48 X48	KIGHT OF LEFT SHOULDER GLUSED AMEAD OF FT OF _ MILE	1	35	

				STATE			PRO	JECT NO.	SECTION NO.	SHEET NO.
				ND			SC-12	200(100)	100	1
SIGN NUMBER	SIGN SIZE	DESCRIPTION		AMO REQU	UNT IRED	UNITS PER AMOUNT	UNITS SUB TOTAL			
W21-6-48 W21-50-48	48"x48" 48"x48"	SURVEY CREW				35 35				
W21-51-48	48"x48"	MATERIAL ON ROADWAY				35				
W21-52-48 W21-53-48	40 x40 48"x48"	RUMBLE STRIPS AHEAD		4	Ļ	35 35	140			
W22-8-48 W24-1-48	48"x48" 48"x48"	FRESH OIL LOOSE ROCK DOUBLE REVERSE CURVE				35 35		-		
								J		
SPECIAL SIC	GNO]		
								NOTE: If additional signs	are	
								required, units wi	lbe	
SPEC & COE 704-1000)E	TRAFFIC CONTROL SIGNS	TOTAL UNITS				4057	from Section III-1	ne formula 3.06 of the	
								Design Manual.	aov/	
SPEC & CODE		DESCRIPTION	UNIT	QUANTI	ΓY			http://www.dot.hd	.90 1	
704-0100			MHR	13	70					
704-1050	TYPE I B	ARRICADES	EACH		40					
704-1052	DELINEA	TOR DRUMS	EACH		12					
704-1065 704-1067	TRAFFIC TUBULA	CONES R MARKERS	EACH EACH		80			This docume	ent was orig	ginally
704-1070 704-1072	DELINEA	TOR EDELINEATORS	EACH					issued a	nd sealed l	ру
704-1080	STACKA	BLE VERTICAL PANELS	EACH					Jason	I. Mayfield, tion Numb	or
704-1081 704-1085	SEQUEN	CING ARROW PANEL - TYPE A	EACH					PE	-7877	
704-1086 704-1087	SEQUEN SEQUEN	CING ARROW PANEL - TYPE B CING ARROW PANEL - TYPE C	EACH EACH		_			on 03/03/202	5 and the o	original
704-1500 704-3501	OBLITER	ATION OF PVMT MK E PRECAST CONCRETE MED BARRIER	SF LF					documer	it is stored	at
704-3510	PRECAS		EACH					Wold Eng	ineering, P	P.C.
762-0200	SHORT T		LF					Minot, N	orth Dakot	a
762-0430	SHORT T	EKM 4IN LINE - I YPE NR	LF							
					\neg	1	٦	Fraffic Control Device	s List	
						1				
						1				
						1				
						1				



TATE.	PROJECT NO.		SECTION NO.	SHEET NO.
ND	SC-1200(100)		100	2
3 inted				
K MILES 172 ted				
F (2 R Pos	8 SPEED LIMIT XX MINIMUM FEE \$80 R2-1-48 40 MPH) & 2-1a-24 t Mounted	his docume issued a Jason Registra Pf 0 03/03/202 documer Wold Eng Minot, N	Engineer ent was ori nd sealed I. Mayfield tion Numb E-7877 25 and the stored gineering, F Jorth Dako	ginally by er briginal at 2.C. ta
	WORK ZONE TR	RAFFIC DN #1 8	CONT	ROL



STATE.	PROJECT NO.		SECTION NO.	SHEET NO.
ND	SC-1200(10	00)	100	3
K K K MILES 72 ted				
F (4 Pos	8 SPEED LIMIT XX AINIMUM FEE \$80 R2-1-48 40 MPH) & 2-1a-24 t Mounted	This docume issued at Jason Registra PE on 03/03/202 documer Wold Eng Minot, N	ent was originated the sealed tion Numb 5-7877 5 and the stored ineering, Florth Dako	ginally by , er original at 2.C. ta
	WORK ZONE	TRAFFIC	CONT	ROL



ND SC-1200(100) 100 4 Sinted Image: Second se	STATE.	PROJECT NO.		SECTION NO.	SHEET NO.
B R R R R R R 2-1-48 (40 MPH) & R R 2-1a-24 Post Mounted R R R R R R R R R R R R R	ND	SC-1200(100)	100	4
Image: Rest of the second s	3 inted 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
Image: SPEED LIMIT XX Imit XX	K MILES 72 ted				
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