DESIGN DATA						
Traffic	1	Average Daily				
Current	Pass: 1053	Trucks: 202	Total: 1255			
Preventive Maintenanc	Preventive Maintenance Chip Seal					
'						

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION

H-3-281(146)128

Eddy County N Jct 15 to North of Sheyenne Chip Seal

STATE	PROJECT NO.	PCN	SECTION NO.	SHEET NO.
ND	H-3-281(146)128	24285	1	1

GOVERNING SPECIFICATIONS	Date Published and Adopted by the North Dakota Department of Transportation
Standard Specifications	4/1/2024
Supplemental Specifications	NONE

PROJECT NUMBER \ DESCRIPTION H-3-281(146)128/Chip Seal

NET MILES 10.612

GROSS MILES 10.630

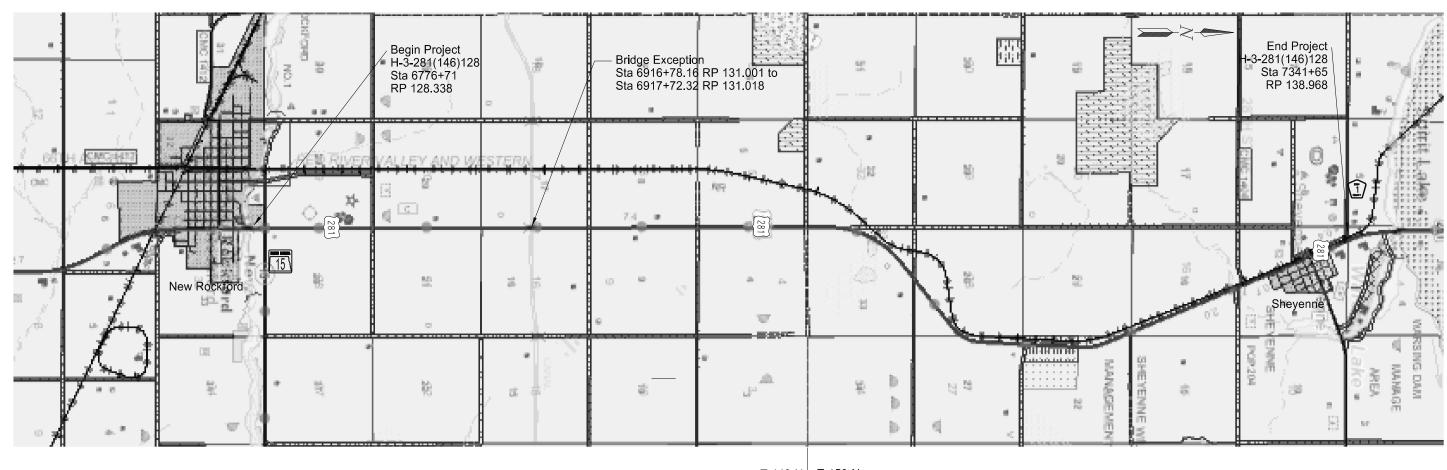
NDDOT Devils Lake District

CHRISTOPHER K

PE-6240

DATE 03/03/25

NORTH DAKO



T-149-N T-150-N R-66-W R-66-W

ND DEPARTMENT OF TRANSPORTATION Devils Lake District

Chityle K. Begg

DESIGNER Benjamin Hannesson DESIGNER DESIGNER

STATE COUNTY MAP

MORTON

MC KENZIE

SLOPE

DUNN

ADAMS

LOGAN LA MOURE RANSOM

DICKEY

TABLE OF CONTENTS

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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PLAN SECTIONS

Section	Page(s)	Description
1	1	Title Sheet
2	1	Table of Contents
4	1	Scope of Work
6	1	Notes
8	1	Quantities
10	1	Basis of Estimate
20	1	General Details
30	6	Typical Sections
100	2	Work Zone Traffic Control

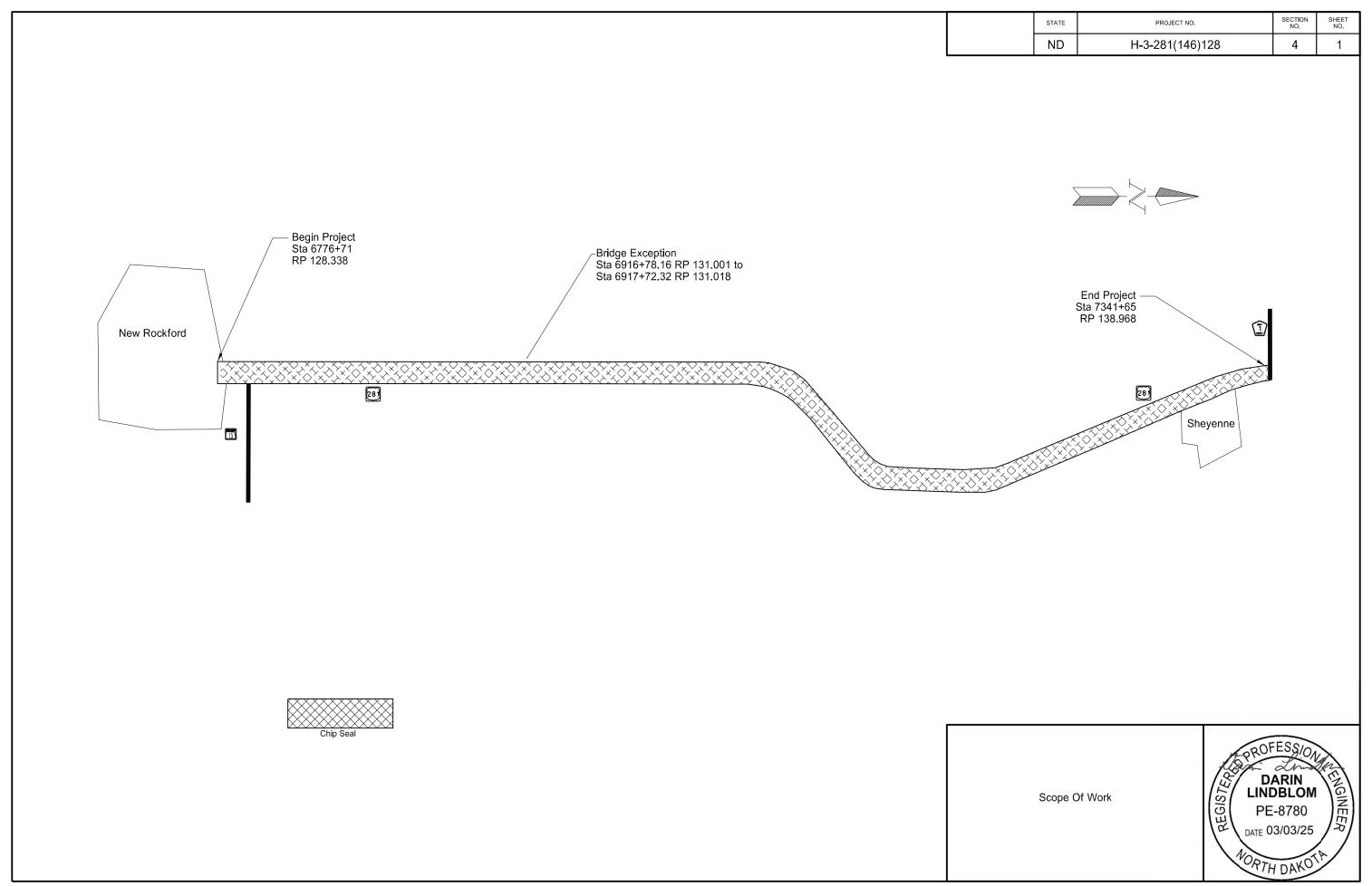
LIST OF STANDARD DRAWINGS

Number	Description
D-101-1, 2,3,4	NDDOT Abbreviations
D-101-10	NDDOT Utility Company and Organization Abbreviations
D-101-20, 21	Line Styles
D-101-30, 31,32,33	Symbols
D-704-3	Lane Markers (Spotting Tab For Seal Projects Only)
D-704-15	Road Closure Layouts
D-704-20	Terminal And Seal Coat Sign Layouts
D-704-21	Detour And Roadway Diversion Sign Layouts
D-704-22	Construction Truck And Temporary Detour Layouts
D-704-26	Miscellaneous Sign Layouts
D-704-27	Mobile Operation (Pavement Marking)
D-704-33	Two-Lane Roadway Portable Rumble Strips
D-704-50	Portable Sign Support Assembly
D-762-1	Pavement Marking Message Details
D-762-4	Pavement Marking
D-762-5	Pavement Marking for Standard 90 Degree Flared Intersection-(No Center Left Turn Lane on Major Road)
D-762-11	Short-Term Pavement Marking

SPECIAL PROVISIONS

Number	Description
501(24)	Warranty Chip Seal

2/28/2025 9:46:51 AM jthunter



STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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- 107-500 PAVEMENT SWEEPING: Sweep the roadway adjacent to the construction area at the end of each day. Utilize a vacuum or pickup type sweeper within city limits
- 401-P01 FOG SEAL: Apply fog seal immediately after performing final brooming. Use CSS1H Emulsified Asphalt at a residual rate of 0.05 Gal/SY for fog sealing.
- 420-P01 SEAL COAT: Seal shoulders before sweeping the excess chips from the adjacent lane.
- 704-500 PORTABLE RUMBLE STRIPS (PRS): Use PRS made of rubber or engineered polymers.

Install PRS as part of the temporary traffic control when the following signs are also part of the required traffic control set up:

- "Be Prepared to Stop" (E3-4); and
- "Flagger" symbol (W20-7)

Install PRS that meet the following criteria:

- Have no adhesives or fasteners required for placement.
- Have a manufacture's speed rating that meets or exceeds the posted speed limit; and
- Each strip in the array must weigh a minimum of 100 pounds.

Use individual PRS construction 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 price bid for "Portable Rumble Strips".

704-P01 TRAFFIC CONTROL FOR SEAL COATS: Provide traffic control consisting of a temporary lane closure, flagging, and a pilot car.

Traffic control device quantities are based on a 10 mile limitation and following list:

1. Standard D-704-15, layout A, place layout A at both ends of the work zone. Flagging stations located within the work zone require sign W20-7-48 only;

- 2. Standard D-704-20, layout H, signing will be required at junctions: JCT of U.S. 281 and ND 15
- 3. Standard D-704-22, layouts K and L. Place flaggers and traffic control devices as shown on Standard D-704-15, layout A at the following intersections when the lane closure spans across them: JCT of 25th St NE and US 281, 22nd St NE And US 281

704-P02 TRAFFIC CONTROL: At the end of each work day, after the final sweeping, and short term striping are complete, return the traffic speed to the posted speed limit for the full length of roadway that received the bitumen and cover coat material.



ESTIMATE OF QUANTITIES

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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SPEC CODE ITEM DESCRIPTION	UNIT MAINLINE	TOTAL
103 0100 CONTRACT BOND	L SUM 1	1
420 0405 SEAL COAT	SY 229,474	229,474
702 0100 MOBILIZATION	L SUM 1	1
704 1000 TRAFFIC CONTROL SIGNS	UNIT 1,946	1,946
704 1048 PORTABLE RUMBLE STRIPS	EA 2	2
762 0103 PVMT MK PAINTED-MESSAGE	SF 381	381
762 0430 SHORT TERM 4IN LINE-TYPE NR	LF 80,016	80,016
762 1106 PVMT MK PAINTED 6IN LINE	LF 149,557	149,557
762 1112 PVMT MK PAINTED 12IN LINE	LF 3,238	3,238
762 1124 PVMT MK PAINTED 24IN LINE	LF 72	72

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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Item	Dogin	End		Mainline	Chauldar		420-0126 Mainline	420-0111 Mainline	420-0111 Shoulder X 2	401-0070 Mainline-Fog Seal
Chip Seal Summary	Begin	Station	Length	Width	Width	Area (SY)	Cover Coat Material CL 41 @	CRS2P Emulsified Asphalt @	CRS2P Emulsified Asphalt @ 0.2	Fog Seal CSS1H Emulsified
H-3-281(146)128	Station	Station		wiatii	widii		24 LBS/SY (TONS)	0.4 GAL/SY (GAL)	Gal/SY (GAL)	Asphalt @ 0.05 GAL/SY (GAL)
Proposed Typical #1	6776+71	6784+93	822	24	12	3,288	26	877	219	110
Proposed Typical #1	6797+59	6916+79	11,920	24	12	47,680	381	12,715	3,179	1,589
Proposed Typical #1	6917+72	7104+63	18,691	24	12	74,764	598	19,937	4,984	2,492
Proposed Typical #1	7110+61	7111+83	122	24	12	488	4	130	33	16
Proposed Typical #1	7125+90	7293+59	16,769	24	12	67,076	• 537	17,887	4,472	2,236
Proposed Typical #1	7301+67	7318+26	1,659	24	12	6,636	53	1,770	442	221
Proposed Typical #1	7335+20	7341+65	645	24	12	2,580	21	688	172	86
Proposed Typical #2	6782+28	6784+93	265	48	10	1,708	17	565	59	71
Proposed Typical #2	7110+61	7111+83	122	48	10	786	8	260	27	33
Proposed Typical #3	6784+93	6791+89	696	36	12	3,712	33	1,114	186	139
Proposed Typical #3	7111+83	7120+20	837	36	12	4,464	40	1,339	223	167
Proposed Typical #4	7293+59	7298+00	441	36	10	2,254	21	706	98	88
Proposed Typical #4	7298+00	7299+51	151	36	10	772	7	242	34	30
Proposed Typical #5	7318+26	7320+00	174	36		696	8	278		35
Proposed Typical #5	7335+00	7335+20	20	36		80	1	32		4
Proposed Typical #6	7320+00	7320+90	90	36		360	4	144		18
Proposed Typical#7	7320+90	7331+85	1,095	39.5		4,806	58	1,922		240
Proposed Typical #8	7331+85	7335+00	315	36		1,260	15	504		63
H-3-281-(146)128 Subtotal			54,834			223,410	1,833	61,110	14,127	7,639
Miscellaneous Items										
Approaches and Private Drives						6,064	16	217	1,104	68
Miscellaneous Items Subtotal							16	217	1,104	68
Grand Total						229,474	1,849	61,327	14,127	7,707

*ESTIMATED QUANITIES

SHORT TERM PAVEMENT MARKING						
	TOTAI	ГТ				
4" YELLOW, 10' LINE, 30' SKIP	23,546	LF*				
SHORT TERM 4IN LINE-TYPE NR BARRIER- YELLOW-NPZ	56,560	LF*				

*figured for 2 applications

PERMANENT PAVEMENT MARKING						
	TOTAI	_				
YELLOW, 10' LINE, 30' SKIP	11,773	LF				
PVMT MK PAINTED 6IN LINE BARRIER-6" YELLOW-NPZ	28,280	LF				
PVMT MK PAINTED 6IN LINE 6" WHITE EDGELINE	109,241	LF				
PVMT MK PAINTED 6IN LINE 6"	263	LF				
PVMT MK PAINTED 12IN LINE 12" WHITE	3,238	LF				
PVMT MK PAINTED 24IN LINE-STOP BARS	72	LF				
PVMT MK PAINTED-MESSAGE	381	SF				

Basis Of Estimate



Existing R/W

Depth Transition

Chip Seal_

100'

Match Existing

End Radius

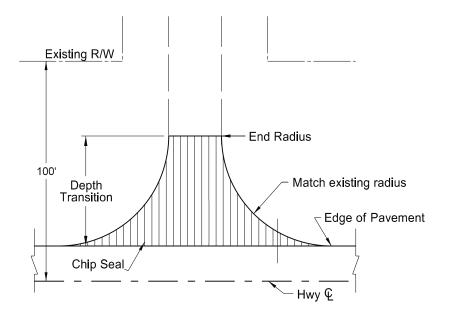
`— Hwy ℚ

Match existing radius

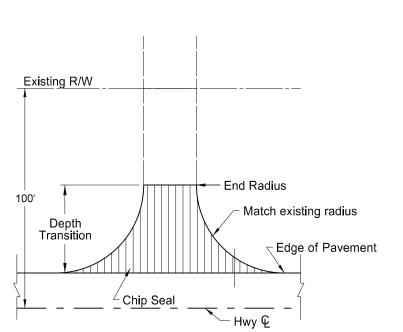
 STATE
 PROJECT NO.
 SECTION NO.
 SHEET NO.

 ND
 H-3-281(146)128
 20
 1

Notes: CRS2P Emulsified Asphalt @ 0.4 Gal/SY CRS2P Emulsified Asphalt @ 0.2 Gal/SY Cover Coat Material CL 41 @ 24 Lb/SY Fog Seal @ 0.05 Gal/SY



(2) Gravel Section Line, County Road, or Street Approach



(1) Paved Section Line, County Road, or Street Approach

Existing R/W

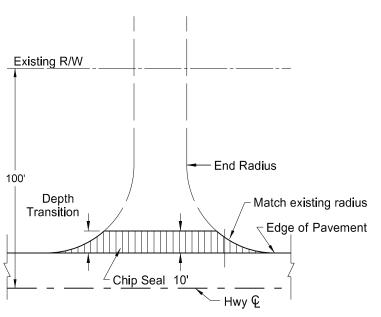
End Radius

Match existing radius

Chip Seal

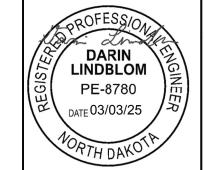
Hwy ©

(4) Gravel Private Drive Approach



Private Drive Approach (5) Field Drive Approach

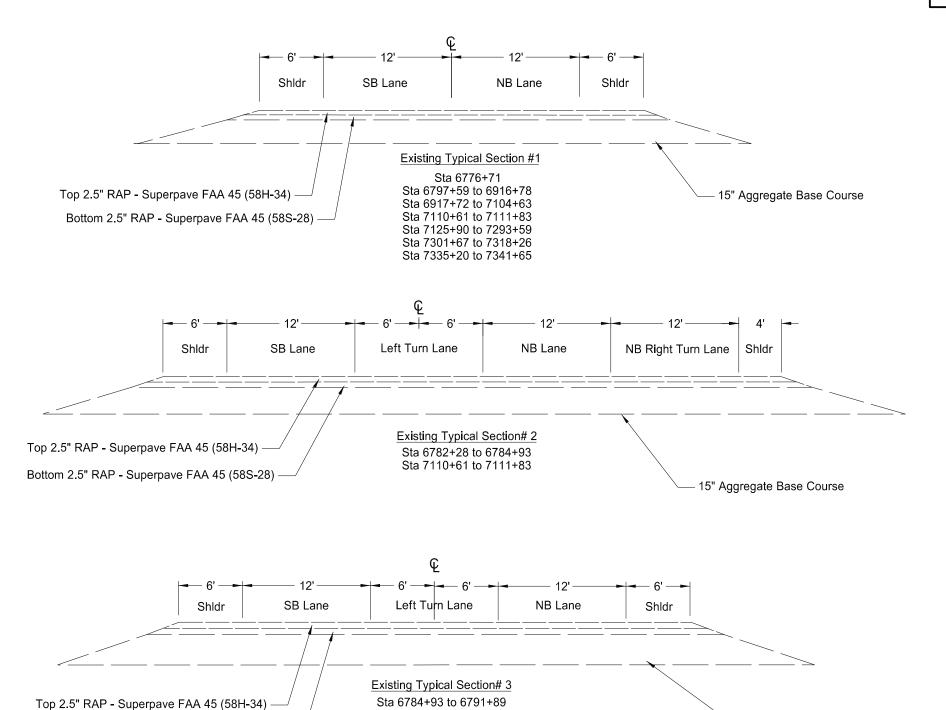
			H-3-281(14	46)128					
	1	2	3	4	5	6	7		
	PAVED SECTION LINE	GRAVEL	PAVED PRIVATE DRIVE	TOPSOIL FIELD DRIVE	GRAVEL FIELD DRIVE	GRAVEL PRIVATE DRIVE	PAVED STREET DRIVE		
ITEM	OLOTION EN	OLOTION LINE	THIVATE BILIVE	DIVIVE	DIVIVE	INVALE BRIVE	OTTLET BILIVE	TOTAL	S
Number of Locations	1	11	7	31	10	11	6	77	EA
Area SY	543	67	92	58	58	86	136	6,064	SY
CRS2P Emulsified Asphalt @ 0.4 Gal/SY	217.2						326.4	1,485	GAL
CRS2P Emulsified Asphalt @ 0.2 Gal/SY		147.4	128.8	359.6	116	189.2		1,400	GAL
Cover Coat Material CL 41 @ 24 LBS/SY	6.5						9.8	16	Tons
Fog Seal	27.15						40.8	68	GAL



Chip Seal Approach Detail

(3) Paved Private Drive Approach

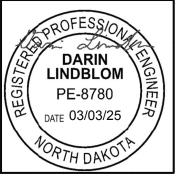
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Sta7111+83 to 7120+20

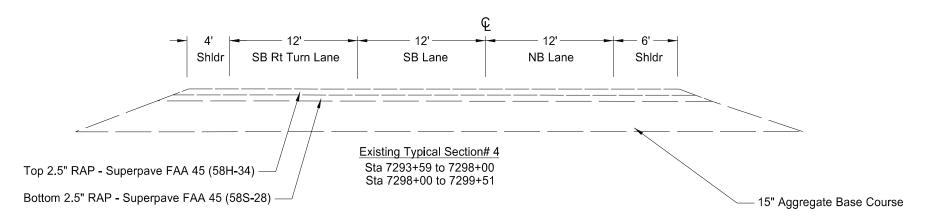
Existing Typical

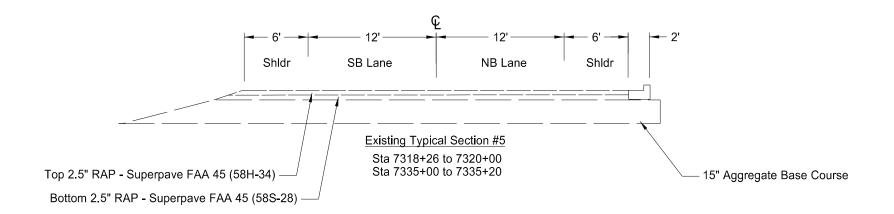
- 15" Aggregate Base Course

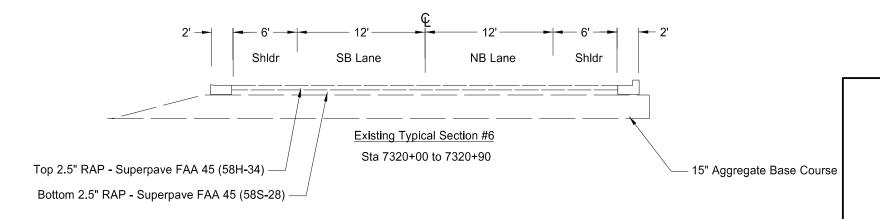


Bottom 2.5" RAP - Superpave FAA 45 (58S-28)

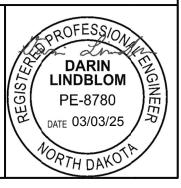
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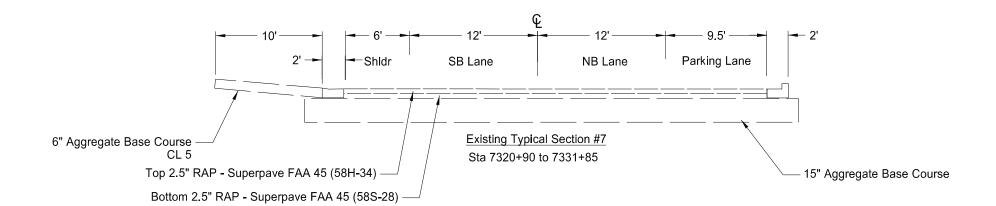


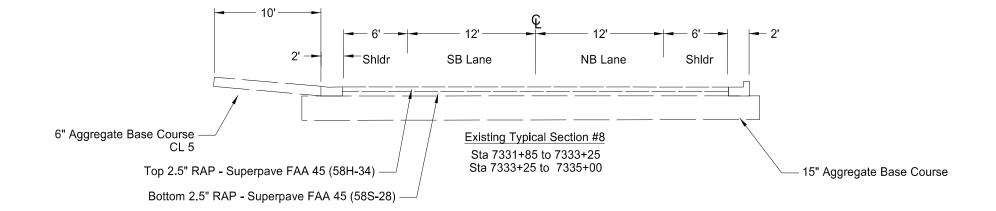


Existing Typical



STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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Existing Typical



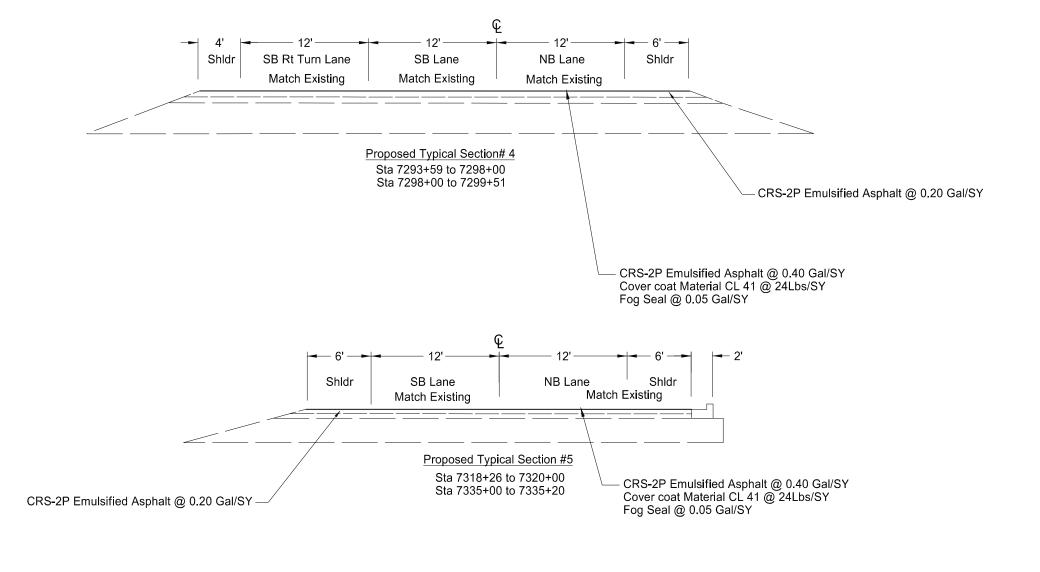
									STATE	PROJECT NO.	
									ND	H-3-281(146)128	
	 	<u>Ç</u>	12'	— 6' -							
	Shldr	SB Lane	NB Lane	Shldr							
			Match Existing								
<i></i>		Proposed Typi	cal Section #1		CRS	-2P Emulsified Asph	halt @ 0.20 Gal	I/SY			
		Sta 677 Sta 6797+59	'6+71 to 6916+78								
		Sta 6917+72 Sta 7110+61	to 7104+63		CR Co	S-2P Emulsified Asp ver coat Material CL g Seal @ 0.05 Gal/S	phalt @ 0.40 Ga . 41 @ 24Lbs/S`	al/SY SY			
		Sta 7125+90 Sta 7301+67	to 7293+59		Fo	g Seal @ 0.05 Gal/S	SY				
		Sta 7335+20	to 7341+65								
6'	12'	<u>€</u> 	► 12'	12'	<u></u> 4' ⊢	_					
Shldr	SB Lane	Left Turn Lane	NB Lane	NB Right Turn L	ane Shldr						
	Match Existing	Match Existing	Match Existing	Match Existing							
 		Proposed Typic	al Soction# 2				> CRS - 2P Em	mulsified Asphalt @ 0.20	0 Gal/SY		
		Sta 6782+28 Sta 7110+61	to 6784+93								
		Sta / 110+61	10 / 111+63				CRS-2P Er	imulsified Asphalt @ 0.4 t Material CL 41 @ 24Lt @ 0.05 Gal/SY	0 Gal/SY		
							Fog Seal @	@ 0.05 Gal/SY	OS/5 Y		
├ 6' 	12'	6'	 	6'—							
	SB Lane	Left Turn Lane									
Shldr	Match Existing	g Match Existing	Match Existir	ng Shldr	_						
 		Proposed Typical Se									
		Sta 6784+93 to 67	91+89			CRS-2P Emu	ılsified Asphalt (@ 0.20 Gal/SY			
		Sta7111+83 to 71	20+20			CRS-2P Emu	lsified Asphalt (@ 0.40 Gal/SY			
						Fog Seal @ 0).05 Gal/SY	@ 0.40 Gal/SY @ 24Lbs/SY			
											ap OF
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										\\\\\\\\\\	DA DALI

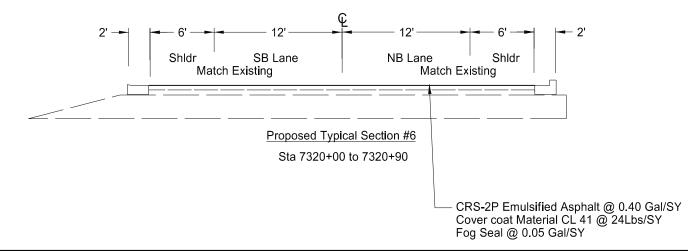
Proposed Typical

DATE 03/03/25

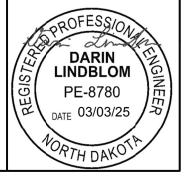
NORTH DAKO

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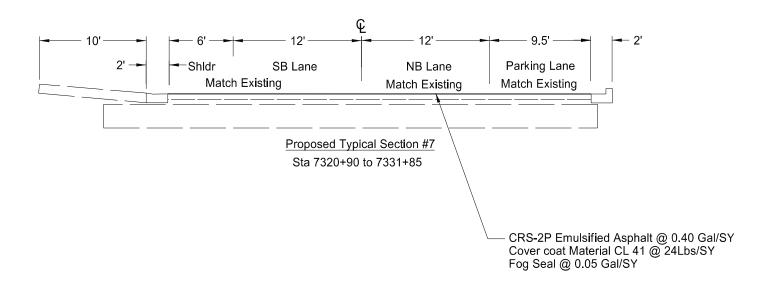


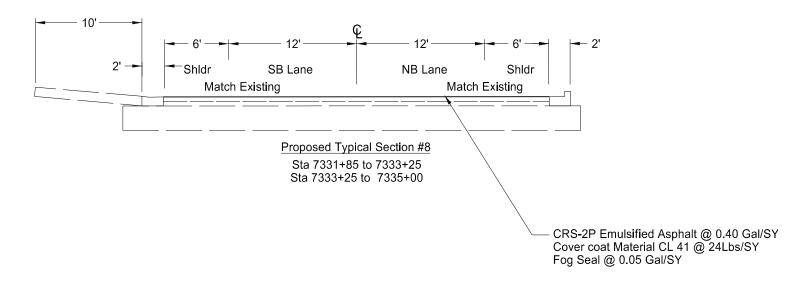


Proposed Typical

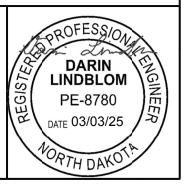


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Proposed Typical



ND	H-3-281(146)128	100	1
STATE	PROJECT NO.	SECTION NO.	SHEET NO.

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	2	28	
G20-1b-60	60"x24"	NO WORK IN PROGRESS (Sign and installation only)		18	
G20-2-48	48"x24" 36"x18"	END ROAD WORK	2	26	
G20-4-36 G20-4b-36	36"x18"	PILOT CAR FOLLOW ME (Mounted to back of pilot car) WAIT FOR PILOT CAR	1 2	18 18	:
G20-40-36 G20-50a-72	72"x36"	ROAD WORK NEXT MILES RT & LT ARROWS	8	43	34
G20-50a-72	72"x24"	ROAD WORK NEXT MILES RT or LT ARROW	2	36	7
G20-55-96	96"x48"	SPEED LIMIT ENFORCED - MINIMUM FEE \$80 WHEN WORKERS PRESENT	2	59	11
M1-1-36	36"x36"	INTERSTATE ROUTE MARKER (Post and installation only)		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	
M3-3-24	24"x12"	SOUTH (Mounted on route marker post)		7	
M3-4-24	24"x12"	WEST (Mounted on route marker post)		7	
M4-8-24 M4-9-30	24"x12" 30"x24"	DETOUR (Mounted on route marker post) DETOUR ARROW RIGHT or LEFT/AHD AND RT or LT		7 15	
M4-9-30 M4-10-48	48"x18"	DETOUR ARROW RIGHT OF LEFT/AND AND RT OF LT 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	
M5-1-21	30"x21"	ADVANCE TURN ARROW RT or LT(Mounted on route marker post)		9	
M6-1-21	21"x15"	DIRECTIONAL ARROW RT or LT (Mounted on route marker post)		7	
и6-1-21 И6-1-30	30"x21"	DIRECTIONAL ARROW RT of LT (Mounted on route marker post) DIRECTIONAL ARROW RT or LT (Mounted on route marker post)		9	
//6-3-21	21"x15"	DIRECTIONAL ARROW R1 of E1 (Mounted on route marker post)		7	
R1-1-48	48"x48"	STOP		32	
R1-2-60	60"x60"	YIELD		29	
R2-1-36	36"x48"	SPEED LIMIT (Portable only)		30	
2-1-48	48"x60"	SPEED LIMIT	6	39	:
R2-1aP-24	24"x18"	MINIMUM FEE \$80 (Mounted on Speed Limit post)	6	10	
R3-2-48	48"x48"	NO LEFT TURN		35	
R4-1-48	48"x60"	DO NOT PASS	6	39	:
R4-7-48	48"x60"	KEEP RIGHT		39	
R5-1-48	48"x48"	DO NOT ENTER		35	
R6-1-54	54"x18"	ONE WAY RIGHT or LEFT (Mounted on STOP or DO NOT ENTER post)		14	
R7-1-12	12"x18"	NO PARKING ANY TIME		11	
10-6-24	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	60"x30"	ROAD CLOSEDMILES AHEAD LOCAL TRAFFIC ONLY (Mtd on barricade)		15	
R11-3c-60	60"x30"	STREET CLOSEDMILES AHEAD LOCAL TRAFFIC ONLY (Mtd on barricade)		15	-
R11-4a-60 W1-3-48	60"x30" 48"x48"	STREET CLOSED TO THRU TRAFFIC (Mounted on barricade) REVERSE TURN RIGHT or LEFT		15 35	
V1-3-46 V1-4-48	48"x48"	REVERSE CURVE RIGHT or LEFT		35	-
N1-4b-48	48"x48"	TWO LANE REVERSE CURVE RIGHT or LEFT		35	
V1-6-48	48"x24"	ONE DIRECTION LARGE ARROW		26	
V3-1-48	48"x48"	STOP AHEAD		35	
V3-3-48	48"x48"	SIGNAL AHEAD		35	
V3-4-48	48"x48"	BE PREPARED TO STOP		35	
V3-5-48	48"x48"	SPEED REDUCTION AHEAD		35	
V4-2-48	48"x48"	LANE ENDS RIGHT or LEFT		35	
V5-1-48	48"x48"	ROAD NARROWS		35	
V5-8-48	48"x48"	THRU TRAFFIC RIGHT LANE		35	
V5-9-48	48"x48"	ROAD WORK TRAFFIC ONLY DOWN & LT or RT ARROW		35	
V6-3-48	48"x48"	TWO WAY TRAFFIC		35	
/8-1-48	48"x48"	BUMP		35	
/8-3-48	48"x48"	PAVEMENT ENDS		35	lacksquare
/8-7-48	48"x48"	LOOSE GRAVEL		35	
/8-11-48	48"x48"	UNEVEN LANES		35	<u> </u>
/8-12-48	48"x48"	NO CENTER LINE	6	35	
/8-17-48	48"x48"	SHOULDER DROP-OFF SYMBOL		35	<u> </u>
/8-53-48	48"x48"	TRUCKS ENTERING HIGHWAY		35	-
/8-54-48 /8-55-48	48"x48"	TRUCKS ENTERING AHEAD orFT or _MILE TRUCKS CROSSING AHEAD orFT or _MILE		35	-
/8-55-48 /8-56-48	48"x48" 48"x48"	TRUCKS CROSSING AHEAD OFFT OF _ MILE TRUCKS EXITING HIGHWAY		35 35	-
/8-56-48 /9-3a-48	48"x48"	CENTER LANE CLOSED SYMBOL		35	-
/9-3a-46 /13-1P-30	30"x30"	MPH ADVISORY SPEED PLAQUE (Mounted on warning sign post)		14	-
/14-3-64	64"x48"	NO PASSING ZONE		28	t
/16-2P-30	30"x24"	FEET PLAQUE (Mounted on warning sign post)		10	_
/20-1-48	48"x48"	ROAD WORK AHEAD or _FT or _ MILE	4	35	
/20-2-48	48"x48"	DETOUR AHEAD or FT or MILE	-	35	
V20-3-48	48"x48"	ROAD or STREET CLOSED AHEAD or FT or _ MILE		35	
V20-4-48	48"x48"	ONE LANE ROAD AHEAD or FT or _ MILE		35	
V20-5-48	48"x48"	RIGHT or CENTER or LEFT LANE CLOSED AHEAD or FT or _ MILE		35	
V20-7-48	48"x48"	FLAGGER	2	35	
V20-8-18	18"x18"	STOP - SLOW PADDLE Back to Back	4	5	
/20-52P-54		NEXT MILES (Mounted on warning sign post)	6	12	
/21-1-48	48"x48"	WORKERS		35	
V21-2-48	48"x48"	FRESH OIL		35	
V21-3-48	48"x48"	ROAD MACHINERY AHEAD or FT or _ MILE		35	
V21-5-48	48"x48"	SHOULDER WORK		35	<u> </u>
/21-5a-48	48"x48"	RIGHT or LEFT SHOULDER CLOSED		35	
V21-5b-48	48"x48"	RIGHT or LEFT SHOULDER CLOSED AHEAD or FT or MILE		35	1

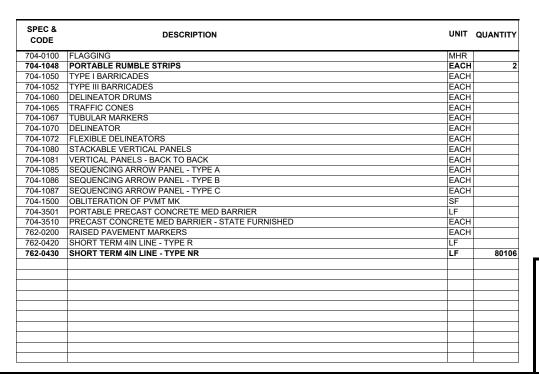
SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
V21-6-48	48"x48"	SURVEY CREW		35	
V21-50-48	48"x48"	BRIDGE PAINTING AHEAD or FT		35	
V21-51-48	48"x48"	MATERIAL ON ROADWAY		35	
V21-52-48	48"x48"	PAVEMENT BREAKS		35	
V21-53-48	48"x48"	RUMBLE STRIPS AHEAD		35	
V22-8-48	48"x48"	FRESH OIL LOOSE ROCK	6	35	210
V24-1-48	48"x48"	DOUBLE REVERSE CURVE		35	

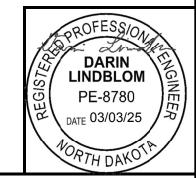
SPECIAL SIG	NS		

 SPEC & CODE

 704-1000
 TRAFFIC CONTROL SIGNS
 TOTAL UNITS
 1946

NOTE:
If additional signs are
required, units will be
calculated using the formula
from Section III-18.06 of the
Design Manual.
http://www.dot.nd.gov/





Traffic Control Devices List

									_	STATE	PROJECT NO.	SECTION NO.	
										ND H-3-	-281(146)128	100	
- 44	A A	1		To the	./	<u> </u>				65TH ARE NE			
-3	2 S	1				AA			1/	1.			
17	# 1	//_ %	- E	100	55 B		850,829	101	w (<u>1)</u>	,		NJ *	
10 kg .		/ H			-				-	<u> </u>	-		
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1 - \		G20-2-48		. 10		-					9	AHE 20-55-96	IE AD
1 7.7	7 7	END ROAD WORK	4					<u> </u>	2 2 2		S S	MED LIMIT ENFORCED MINIMUM FEE \$80 MEN WORKERS PRESENT	
6) H ACMORREZ	· 開始的 25-74 日本 日本 日本 日 日 1995 。	CONSTRUCTED TOUR COMPANY MAKE	VALLEY AND W	STERN		100 Annual Control of the Control of	· ju	G20-50a-72	展		G20-52a- G20-1a-60C ROAD WORK NEXT 00 WILES		
		YOUR TOMN, NO	d @	0	7.4_ #		San	ROAD WORK MEXT 00 MILES NEXT 00 MILES	l. 3	Sig	ROAD WORK NEXT 00 MILES Sequence 1		108
		ROAD WORK	— Sign Sequence 1		*	(Jee)	1	Sign Sequence	1 /	G20-50a-72 ROAD WORK MEXT OO MILES NEXT OO MILES			
		ROAD WORK NEXT 00 MILES ⇒ G20-52a-72	eigii eeqaanaa i	# 5 ·	0 - 2		e'.	· 主 · ·	- * ·	#	VCONSTRUCTED AND CONSTRUCTED A		No.
ROAD WORK AHEAD	SPEED CIMIT ENFORCED		0		0			14		0.5	ROAD	The state of	- 63
W20-1-48	WININAM FEE 880 Mek Warstes PRESENT G20-55-96 ROAD-WORK NEXT 00 MILES G20-1a-60			. 8		*	Sign Sequence 1—		- Para	ROAD WORK ← NEXT 00 MILES — NEXT 00 MILES —	WORK	END ROAD WORK G20-2-48	SING D
3	* A.	ROAD	粮	# # T	\$	upa	A. D.	ROAD WORK MEXT 00 MILES NEXT 00 MILES G20-50a-72	2 5	NEXT 00 MILES = G20-50a-7	W20-1-48	NAGE NAGE	DAM
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	* 5	W20-1-48		₂ .	=	2.2	8	¥.		m =	<u> </u>	NENT 2	-70
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July 1	T.	- 1							***************************************	-	<u> </u>		2
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	L	Use Standard D-704- and note 6 for s										25500	_
	-	Sign Sequen	ce 1————	-							La p	OFESSIO	A
	W8-12-48	R4-1-48	_	R2-1-48							REGIS/FR	DARIN INDBLO	M 5
	NO CENTER STRIPE	DO NOT PASS	FRESH OIL LOOSE ROCK	SPEED LIMIT 55					I Cor	struction Signing	1131	PE-8780	,

MINIMUM FEE \$80

R2-1aP-24

W20-52P-54

NDDOT ABBREVIATIONS D-101-1

?	This is a special text character used in the labeling of existing features. It indicates a feature that has	C Gdrl	cable guardrail	Culv	culvert
	an unknown characteristic, potentially based on:	Calc	calculate	C&G	curb & gutter
	lack of description, location accuracy or purpose.	CIP	cast iron pipe	CI	curb inlet
۸۵۰	a bandana d	CB	catch basin	CR	curb ramp
Abn	abandoned	CRS C Gd	cationic rapid setting	С	cut
Abut	abutment	C Ga C To C	cattle guard	Dala	dood lood
Adj Agan	adjusted	CL or ©	center to center	Dd Ld	dead load
Aggr	aggregate	_	centerline	Defl	deflection deformed
Ahd ARV	ahead	Chalk	chain	Defm	delineate
	air release valve	Chnlk Ch Blk	chain-link channel block	DInt DIntr	delineator
Al i gn	alignment	Ch Ch			
Al Alt	alley	Chk	channel change	Depr	depression
Alt Alum	alternate aluminum	Chsld	check chiseled	Desc Det	description detail
ADA	Americans with Disabilities Act	Clisid	circle	DWP	
		CI		Dtr	detectable warning panel
& Annr	and	Clnt	class	Dแ Dia or ø	detour diameter
Appr	approach	Clr	clean-out clear	Dia or ø Dir	direction
Approx ACP	approximate			Dist	distance
	asbestos cement pipe	Cl&gr Comb.	clearing & grubbing combination	DM	disturbed material
Asph AC	asphalt coment			DIVI	
Assmd	asphalt cement assumed	Coml	commercial	DG	ditch block
		Compr CADD	compression	Dbl	ditch grade double
@ Atten	at attenuation	CADD	computer aided drafting & design concrete	Dn	down
Atten	automatic traffic recorder	CECB	concrete erosion control blanket	Dwg	
Ave	Avenue	Cond	conductor	Dwg	drawing drive
		Const	construction	Drwy	drive
Avg ADT	average average daily traffic	Cont	continuous	DIWy	drop inlet
ADT	average daily traffic	CSB	continuous continuous split barrel sample	D	dry density
		Contr	contraction	Ь	dry density
		Contr	contractor		
Bk	back	CP	control point		
BF	back face	Coord	coordinate	Ea	each
Balc	balcony	Cor	corner	Esmt	easement
B Wire	barbed wire	Corr	corrected	E	East
Barr	barricade	CAES	corrugated aluminum end section	EB	Eastbound
Btry	battery	CAP	corrugated aluminum pipe	Elast	elastomeric
BI	beehive inlet	CMES	corrugated metal end section	EL	electric locker
Bea	begin	CMP	corrugated metal pipe	E Mtr	electric meter
BG	below grade	CPVCP	corrugated poly-vinyl chloride pipe	Elec	electric/al
BM	bench mark	CSES	corrugated steel end section	EDM	electronic distance meter
Bkwy	bikeway	CSFES	corrugated steel flared end section	Elev or El	elevation
Bit	bituminous	CSP	corrugated steel pipe	Ellipt	elliptical
Blk	block	CSTES	corrugated steel traversable end section	Emb	embankment
BH	bore hole	Co	County	Emuls	emulsion/emulsified
Bot	bottom	Crse	course	ES	end section
Blvd	Boulevard	Ct	Court	Engr	engineer
Bndry	boundary	Xarm	cross arm	ESS	environmental sensor station
Brkwy	breakaway	Xbuck	cross buck	Eq	equal
Br	bridge	Xsec	cross sections	Evgr	evergreen
Bldg	building	Xing	crossing	Exc	excavation
Bus.	business	Xrd	crossroad	Exst	existing
BV.	butterfly valve	Crn	crown	Exp	expansion
Вур	bypass	0	5.5	Ехру	Expressway
7,7	~,,~~~			E	external of curve
				Extru	extruded

culvert	FOS	factor of safety
curb & gutter	Fed	Federal
curb inlet	FP	feed point
curb ramp	Fn	fence
cut	Fn P	fence post
out	FO	fiber optic
dead load	FD	field drive
deflection	F	fill
deformed	FAA	fine aggregate angularity
delineate	FH	fire hydrant
delineator	FI	flange
depression	Flrd	flared
description	FES	flared end section
detail	F Bcn	flashing beacon
detectable warning panel	FA	flight auger sample
detour	FL	flow line
diameter	Ftg	footing
direction	FM	force main
distance	Fnd	found
disturbed material	Fdn	foundation
ditch block	Frac	fractional
ditch grade	Frwy	freeway
double	Frt	front
down	FF	front face
drawing	F Disp	fuel dispenser
drive	FFP	fuel filler pipes
driveway	FLS	fuel leak sensor
drop inlet	Furn	furn i sh/ed
dry density		



NDDOT ABBREVIATIONS D-101-2

Galv	galvanized	Ln	lane	Obsc	obscure(d)	Qty	quantity
Gar	garage	Lg	large	Ocpd	occupied	Qtr	quarter
Gs L	gas line	Lat	latitude	Осру	occupy		
G Reg	gas line regulator	Lt	left	O/s	offset		
GMV	gas ma i n valve	Lens	lenses	OC	on center	Rad or R	radius
G Mtr	gas meter	LvI	level	С	one dimensional consolidation	RR	railroad
GSV	gas service valve	Lvlng	leveling	OC	organic content	Rlwy	railway
GVP	gas vent pipe	Lht	light	Orig	original	Rsd	raised
GV	gate valve	LP	light pole	O To O	out to out	RC	rapid curing
Ga	gauge	Ltg	lighting	OD	outside diameter	Rec	record
Gov	government	Liq	liquid	ОН	overhead	Rcy	recycle
Grd	graded/grade	LL	liquid limit			RAP	recycled asphalt pavement
Grnd	ground	Loc	location			RPCC	recycled portland cement concrete
GWM	ground water monitor	Long.	longitude	PMT	pad mounted transformer	Ref	reference
Gdrl	guardrail	Lp	loop	Pg	pages	R Mkr	reference marker
Gtr	gutter	LD	loop detector	Pntd	painted	RM	reference monument
O.i.	gattor	Lum	luminaire	Pr	pair	RP	reference point
		Lam	idifficatio	Pnl	panel	Refl	reflectorized
H Plg	H piling			Pk	park	RCB	reinforced concrete box
Hdwl	headwall	Mb	mailbox	PSD	passing sight distance	RCES	reinforced concrete end section
Ht	height	ML	main line	Pvmt	passing signit distance	RCFES	reinforced concrete flared end section
Hel	helical	MH	manhole		pedestal	RCP	reinforced concrete pipe
HDPE		Mkd		Ped Ped		RCPS	
	high density polyethylene		marked	PPP	pedestrian		reinforced concrete pipe sewer reinforced concrete traversable end section
HM	high mast	Mkr	marker		pedestrian pushbutton post	RCTES	
HP	high pressure	Mkg	marking	Pen.	penetration	Reinf	reinforcement
HPS	high pressure sodium	MA	mast arm	Perf	perforated	Res	reservation
HTCG	high tension cable guardrail	Matl	material	Per.	perimeter	Res	residence
Hwy	highway	Max	maximum	Perm	permanent	Ret	retaining
Hor	horizontal	MC	meander corner	PL	pipeline	Rev	reverse
HBP	hot bituminous pavement	Meas	measure	PI	place	Rt	right
HMA	hot mix asphalt	Mdn	median	P&P	plan & profile	R/W	right of way
Hyd	hydrant	MD	median drain	PL _	plastic limit	Riv	river
Ph	hydrogen ion content	MC	medium curing	PI or ₽	plate	Rd	road
		MGS	Midwest Guardrail System	Pt	point	Rdbd	road bed
		MM	mile marker	PE	polyethylene	Rdwy	roadway
ld	identification	MP	mile post	PVC	polyvinyl chloride	RWIS	roadway weather information system
Incl	inclinometer tube	Min	minimum	PCC	Portland Cement concrete	Rk	rock
IMH	inlet manhole	Misc	miscellaneous	PP	power pole	Rt	route
ID	inside diameter	Mon	monument	Preempt	preemption		
Inst	instrument	Mnd	mound	Prefab	prefabricated		
Intchg	interchange	Mtbl	mountable	Prfmd or P	ref preformed		
Intmdt	intermediate	Mtd	mounted	Prep	preperation		
Intscn	intersection	Mtg	mounting	Press.	pressure		
Inv	invert	Mk	muck	PRV	pressure relief valve		
IP	iron pipe			Prestr	prestressed		
	P. F			Pvt	private		
				PD	private drive		NORTH DAKOTA
Jt	joint			Prod.	production/produce	-	DEPARTMENT OF TRANSPORTATION 07-01-14
Jct	junction	Neop	neoprene	Prog	programmed	}	07-01-14 REVISIONS
55.	J	Ntwk	network	Prop.	property		DATE CHANGE
		N	North	Prop Ln	property line		08-03-15 General Revisions
		NE	North East	Ppsd	proposed		08-03-15 General Revisions 04-23-18 General Revisions 12-18-20 General Revisions PROFESSIONAL PF-4683
		NW	North West	PB	pull box		12-18-20 General Revisions General Revisions PE-4683
		NR	Northbound	ГЪ	pull box		1/2/2018

NB

Northbound

No. or # number

NDDOT ABBREVIATIONS D-101-3

0.1	1	T. 1	total to a
Salv	salvage(d)	Tel	telephone
San	sanitary sewer line	Tel B	Telephone Booth
Sec	section	Tel P	telephone pole
SL	section line	Tv	television
Sep	separation	Temp	temperature
Seq	sequence	Temp	temporary
Serv	service	TBM	temporary bench mark
Sht	sheet	Т	thinwall tube sample
Shtng	sheeting	Ts	topsoil
Shldr	shoulder	Traf	traffic
Sw or Sdw	k sidewalk	TSCB	traffic signal control box
SD	sight distance	Tr	trail
SN	sign number	Transf	transformer
Sig	signal	Trans	transition
Sgl	single	TT	transmission tower
SRCP	slotted reinforced concrete pipe	TES	traversable end section
SC		Trans	transverse
SS	slow curing	Trtd	treated
	slow setting		
Sm	small	Trmt	treatment
S	South	Qc	triaxial compression
SE	South East	TERO	tribal employment rights ordinance
SW	South West	ТрІ	triple
SB	Southbound	Тур	typical
Sp	spaces		
Spcl	special		
SA	special assembly	Qu	unconfined compressive strength
SP	special provisions	Ugrnd	underground
G	specific gravity	Util	utility
Spk	spike		•
SB	split barrel sample		
SH	sprinkler head	VG	valley gutter
SV	sprinkler valve	Vap	vapor
Sq	square	Vert	vertical
Stk	stake	VCP	vitrified clay pipe
Std	standard	Vol	volume
N	standard penetration test	VSFS	vehicle speed feedback sign
Std Specs	·	V313	verlicie speed reedback sign
	standard specifications	\A/I	
Stm L	steam line	Wkwy	walkway
SEC	steel encased concrete	W	water content
SMA	stone matrix asphalt	WGV	water gate valve
SSD	stopping sight distance	WL	water line
SD	storm drain	WM	water main
St	street	WMV	water main valve
SPP	structural plate pipe	W Mtr	water meter
SPPA	structural plate pipe arch	WSV	water service valve
Str	structure	WW	water well
Subd	subdivision	Wrng	wearing
Sub	subgrade	WIM	weigh in motion
Sub Prep	subgrade preperation	W	west
Ss	subsoil	WB	westbound
SS	supplement specification	Wrng	wiring
Supp	supplemental	W/	with
Surf	surfacing	W/o	without
Surv	survey	WC	witness corner
Sym	symmetrical	***	WILLIOUS COLLICI
Cylli	Symmotion		

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION				
07-01-14				
REVISIONS				
DATE				
08-03-15 04-23-18 12-18-20 08-16-22				



MEASUREMENTS

ac acres ampere Α Bd Ft board feet Cd candela cm centimeter С coulomb CF cubic feet m3 cubic meter

m3/s cubic meters per second

CY cubic yard

cubic yards per mile

CY/mi D or Deg degree Fahrenheit farad feet/foot Gal gallon G giga На hectare henry Hz hertz hr hour(s) in inch joule kelvin kΝ kilo newton kPa kilo pascal kilogram kg

kg/m3 kilogram per cubic meter

km kilometer Kip(s) LF linear foot litre Lm lumen lump sum L sum Lx lux M Hr man hour М mega m meter

m/s meters per second

mi mile milliliter mL millimeter mm

millimeters per hour mm/hr

nano newton Pa pascal lb pounds sec seconds S siemens SF square feet km2 square kilometer m2 square meter SY square yard Sta Yd station yards SI Systems International

tesla T/mi tons per mile

V volt W watt Wb weber

SURVEY DESCRIPTIONS

Αz azimuth Bs backsight Brg bearing blue plastic cap BS BC both sides brass cap CS Eq curve to spiral equation external of curve FS far side FΒ field book foresight

Fs Geod geodetic Geographical Information System GIS

GPS Global Positioning System HΙ height of instrument IM iron monument

l Pn iron pin

Land Surveyor (licensed) LS LSIT Land Surveyor In Training

length of curve L LC long chord LB level book Mer meridian

M mid ordinate of curve NGS National Geodetic Survey

near side

NS Obsn observation Off Loc office location orange plastic cap Parker-Kalon nail OP Cap PK P Cap plastic cap PP Cap pink plastic cap

PCC point of compound curve PC point of curve

PΙ point of intersection PRC point of reverse curvature PT point of tangent

POC point on curve POT point on tangent RTP random traverse point

range

Rge RP Cap SC ST red plastic cap spiral to curve spiral to tangent Sta SE station superelevation Tan tangent tangent (semi)

Τ̈́S tangent to spiral Twp township TB TP transit book traverse point TP turning point

ÜSC&G US Coast & Geodetic Survey

USGS **US Geologic Survey** VC vertical curve WGS World Geodetic System YP Cap yellow plastic cap

zenith

SOIL TYPES

Cl clay clay fill Cl F Cl Hvy clay heavy Cl Lm clay loam Co S coal slack C Gr coarse gravel CS coarse sand FS fine sand Gr gravel Lig Co lignite coal lignite slack Lig Sl Lm loam Rk rock Sd sand Sdy Cl sandy clay Sdy Cl Lm sandy clay loam Sdy Fl sandy fill sandy loam Sdy Lm Sc scoria Sh shale Si Cl silt clay Si Cl Lm silty clay loam Si Lm silty loam

	NORTH DAKOTA				
DEPARTM	DEPARTMENT OF TRANSPORTATION				
	07-01-14				
	REVISIONS				
DATE	CHANGE				
12-18-20	Sheet Added - Continued from D-101-3				

J HO PROFESSIONAL PE-4683 TH DAY 12 18 2020

NDDOT UTILITY COMPANY AND ORGANIZATION ABBREVIATIONS

702COM 702 Communications ACCENT Accent Communications AGASSIZ WU Agassiz Water Users Incorporated Assiociated General Contractors of America AGC ALL PL Alliance Pipeline ALL SEAS WU All Seasons Water Users Association AMOCO PI Amoco Pipeline Company AMRDA HESS Amerada Hess Corporation AT&T AT&T Corporation **BPAW** Bear Paw Energy Incorporated **BAKER ELEC** Baker Electric **BASIN ELEC** Basin Electric Cooperative Incorporated **BEK TEL Bek Communications Cooperative** BELLE PL Belle Fourche Pipeline Company BLM Bureau of Land Management BNSF Burlington Northern Santa Fe Railway BOEING Boeina Barnes Rural Water District **BRNS RWD BURK-DIV ELEC** Burke-Divide Electric Cooperative Burleigh Water Users **BURL WU** CABLE ONE Cable One Cable Services CABLE SERV CAP ELEC Capital Electric Cooperative Incorporat CASS CO ELEC Cass County Electric Cooperative **CASS RWU** Cass Rural Water Users Incorporated **CAV ELEC** Cavalier Rural Electric Cooperative **CBLCOM** Cablecom Of Fargo CENEX PL Cenex Pipeline Central Pipe Line Water District CENT PL WATER DIST **CENT PWR ELEC** Central Power Electric Cooperative CENTURYLINK CenturvLink COE Corps of Engineers **CONSTEL** Consolidated Telephone CONT RES Continental Resource Inc CPR Canadian Pacific Railway DOE Department Of Energy DAK CARR Dakota Carrier Network DAK CENT TEL Dakota Central Telephone DAK RWD Dakota Rural Water District DGC **Dakota Gasification Company** DICKEY R NET Dickey Rural Networks **DICKEY RWU** Dickey Rural Water Users Association DICKEY TEL Dickey Telephone DNRR Dakota Northern Railroad DOME PL Dome Pipeline Company Dakota Valley Electric Cooperative DVELEC DVMW Dakota, Missouri Valley & Western **ENBRDG** Enbridge Pipelines Incorporated Enventis Telephone **ENVENTIS EQUINOR** Equinor Pipeline Falkirk Mining Company FALK MNG Federal Highway Administration **FHWA** Grand Forks-traill Water District G FKS-TRL WD

Getty Trading & Transportation

Greater Ramsey Water District

Griggs County Telephone

Golden West Electric Cooperative

GETTY TRD & TRAN

GLDN W ELEC

GRGS CO TEL

GTR RAMSEY WD

GT PLNS NAT GAS Great Plains Natural Gas Company HALS TEL Halstad Telephone Company IDEA1 Idea1 INT-COMM TEL Inter-Community Telephone Company KANEB PL Kaneb Pipeline Company KEM ELEC Kem Electric Cooperative Incorporated **KOCH GATH SYS** Koch Gathering Systems Incorporated LKHD PL Lakehead Pipeline Company **LNGDN RWU** Langdon Rural Water Users Incorporated LWR YELL R ELEC Lower Yellowstone Rural Electric McKenzie Consolidated Telcom MCKNZ CON McKenzie Electric Cooperative MCKNZ ELEC MCKNZ WRD McKenzie County Water Resource District MCLEOD McLeod USA McLean Electric Cooperative MCLN ELEC MCLN-SHRDN R WAT McLean-Sheridan Rural Water MDU Montana-dakota Utilities MIDCO MidContinent Communications MIDSTATE TEL Midstate Telephone Company MINOT CABLE Minot Cable Television Minot Telephone Company MINOT TEL Missouri Valley Communications MISS VALL COMM MISS W W S Missouri West Water System MNKOTA PWR Minnkota Power MOR-GRAN-SOU ELEC Mor-gran-sou Electric Cooperative MOUNT-WILLIELEC Mountrail-williams Electric Cooperative MRE LBTY TEL Moore & Liberty Telephone MUNICIPAL City Water And Sewer City Of '..... MUNICIPAL N CENT ELEC North Central Electric Cooperative N VALL W DIST North Valley Water District North Dakota Parks And Recreation ND PKS & REC ND TEL North Dakota Telephone Company NDDOT North Dakota Department of Transportation NDSU SOIL SCI DEPT NDSU Soil Science Department NEMONT TEL Nemont Telephone NODAK R ELEC Nodak Rural Electric Cooperative NOON FRMS TEL Noonan Farmers Telephone Company **NPR** Northern Plains Railroad NSP Northern States Power NTH PRAIR RW Northern Prairie Rural Water Association NTHN BRDR PL Northern Border Pipeline NTHN PLNS ELEC Northern Plains Electric Cooperative Incorporated NTHWSTRN REF Northwestern Refinery Company NW COMM Northwest Communication Cooperation Northwest Rural Water District NWRWD **ONEOK** Oneok gas OSHA Occupational Safety and Health Administration OTTR TL PWR Otter Tail Power Company Plains All American Pipeline PAAP Prairielands Energy Marketing PLEM POLAR COM Polar Communications PVT ELEC Private Electric **QWEST Qwest Communications**

R & T Water Supply Association

R&T W SUPPLY

RED RIV COMM Red River Rural Communications **RESVTN TEL** Reservation Telephone ROBRTS TEL Roberts Company Telephone R-RIDER ELEC Roughrider Electric Cooperative **RRVW** Red River Valley & Western Railroad S CENT REG WD South Central Regional Water District SEWU South East Water Users Incorporated SCOTT CABLE Scott Cable Television Dickinson SHERDN ELEC Sheridan Electric Cooperative SHEYN VLY ELEC Sheyenne Valley Electric Cooperative Skyland Technologies Incorporated SKYTECH SLOPE ELEC Slope Electric Cooperative Incorporated SOURIS RIV TELCOM Souris River Telecommunications ST WAT COMM State Water Commission State Line Water Cooperative STATE LN WATER STER ENG Sterling Energy Stutsman Rural Water Users STUT RWU SW PL PRJ Southwest Pipeline Project TMC **Turtle Mountain Communications** TCI of North Dakota TCI TESORO HGH PLNS PL Tesoro High Plains Pipeline Tri-County Water Users Incorporated TRI-CNTY WU TRL CO RWU Traill County Rural Water Users UNTD TEL United Telephone Upper Souris Water Users Association UPPR SOUR WUA U.S. Sprint **US SPRINT** U.S.A.F. Missile Cable **USAF MSL CABLE** US Fish and Wildlife Service USFWS U.S. West Communications **USW COMM** VRNDRY ELEC Verendrye Electric Cooperative W RIV TEL West River Telephone Incorporated WAPA Western Area Power Administration WAWSA Western Area Water Supply Authority WFB W. E. B. Water Development Association **WILLI RWA** Williams Rural Water Association WILSTN BAS PL Williston Basin Interstate Pipeline Company WLSH RWD Walsh Water Rural Water District **WOLVRTN TEL** Wolverton Telephone **XLENER** Xcel Energy **YSVR** Yellowstone Valley Railroad

		NORTH DAKOTA			
l	DEPART	MENT OF TRANSPORTATION			
		07-01-14]		
	REVISIONS				
	DATE CHANGE				
	04-23-18 09-20-18 12-18-20 08-16-22	General Revisions General Revisions General Revisions General Revisions			



LINE STYLES D-101-20

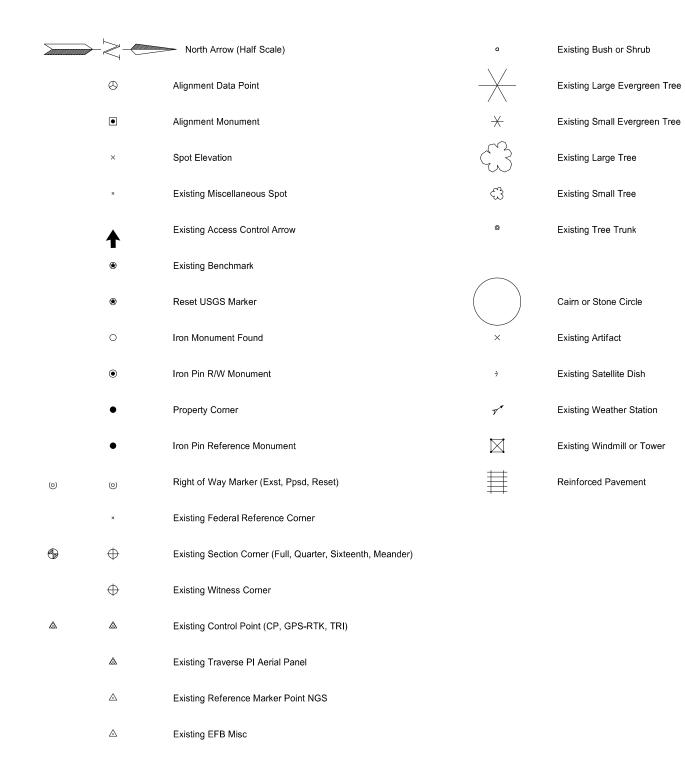
Existing Topography	← − − • − − − − − − Existing 3-Cable w Posts	Existing Utilities	Proposed Utilities
void — void — void — v Existing Ground Void	Site Boundary	——— E —— Existing Electrical	24 Inch Pipe
——— + ——— + ——— Existing Cemetary Boundary	Existing Berm, Dike, Pit, or Earth Dam	——— F0 —— Existing Fiber Optic Line	Reinforced Concrete Pipe
Existing Box Culvert Bridge	Existing Ditch Block	——— F0 —— Existing TV Fiber Optic	
Existing Concrete Surface	Existing Tree Boundary	——— G —— Existing Gas Pipe	Edge Drain
Existing Drainage Structure	Existing Brush or Shrub Boundary	——— OH —— Existing Overhead Utility Line	
———— Existing Gravel Surface	Existing Retaining Wall	——— P —— Existing Power	Traffic Utilities
—— —— —— Existing Riprap	Existing Planter or Wall	———— PL ——— Existing Fuel Pipeline	
Existing Dirt Surface	L → L → L → L → L → L → Existing W-Beam Guardrail with Posts	PL Existing Undefined Above Ground Pipe Line	———————- Fiber Optic
Existing Asphalt Surface	Existing Railroad Switch	Existing Sanitary Sewer	Existing Loop Detector
————————— Existing Tie Point Line	Gravel Pit - Borrow Area	SAN FM Existing Sanitary Force Main	Existing Double Micro Loop Detector
——— — Existing Railroad Centerline	Existing Wet Area-Vegetation Break	======================================	Micro Loop Detector Double
—·—·—·—·—· Existing Guardrail Cable	——————————————————————————————————————	SD FM Existing Storm Drain Force Main	Existing Micro Loop Detector
• • Existing Guardrail Metal	► Existing High Tension Cable Guardrail with Posts	======================================	Micro Loop Detector
		Existing Telephone Line	Signal Head with Mast Arm
x Existing Fence	Proposed Topography	——— TV ——— Existing TV Line	Existing Signal Head with Mast Arm
Existing Railroad	3-Cable w Posts	——— w ——— Existing Water or Steam Line	Sign Structures
Existing Field Line	- Flow	Existing Under Drain	● Existing Overhead Sign Structure
Exst Flow	xx Fence	Existing Slotted Drain	Existing Overhead Sign Structure Cantilever
Existing Curb	— REMOVE — REMOVE — Remove Line	——— ——— — Existing Conduit	Overhead Sign Structure Cantilever
Existing Valley Gutter	Wall	——————————————————————————————————————	NORTH DAKOTA DEPARTMENT OF TRANSPORTATION 07-01-14
Existing Driveway Gutter	Retaining Wall (Plan View)		DATE CHANGE 09-23-16 Added and Revised Items.
Existing Curb and Gutter	<u> </u>	—— —— Existing Underground Vault or Lift Station	OS-25-16 Added anto Revised tellis, Organized by Functional Groups General Revisions PROFESSIONAL PE-4683
Existing Mountable Curb and Gutter	High Tension Cable Guardrail with Posts		12 18 2020

D-101-21 LINE STYLES

Right Of Way	Cross Sections and Typicals	Striping	Erosion Control
Easement	———————— Existing Ground	Centerline Pavement Marking	Limits of Const Transition Line
Existing Easement	Existing Topsoil (Cross Section View)	Barrier with Centerline Pavement Marking	Bale Check
	void — void — void — v Existing Ground Void (Not Surveyed)	Barrier Pavement Marking	····· Rock Check
	Existing Concrete	Stripe 4 IN Dotted Extension White	—— s —— s —— Floating Silt Curtain
——————————————————————————————————————	Existing Aggregate (Cross Section View)	Stripe 8 IN Dotted Extension White	SF Silt Fence
Existing Right of Way Not State Owned	Existing Curb and Gutter (Cross Section View)	Stripe 8 IN Lane Drop	— · — · — · — Excavation Limits
			Fiber Rolls
· · · · · · Existing Adjacent Block Lines	Existing Reinforcement Rebar	Pavement Joints	
Existing Adjacent Lot Lines	Geotechnical	Doweled Joint	Environmental
Existing Adjacent Property Line	——— D ——— Geotextile Fabric Type D	+++++++++++ Tie Bar 30 Inch 4 Foot Center to Center	
Existing Adjacent Subdivision Lines	Geo Geogrid	Tie Bar 18 Inch 3 Foot Center to Center	Existing Wetland Easement USFWS
Sight Distance Triangle Line	R — R Geotextile Fabric Type R	++++++ Tie Bar at Random Spacing	Existing Wetland Jurisdictional
————————— Dimension Leader	R — R — Geotextile Fabric Type R1		Existing Wetland
		Bridge Details	Tree Row
Boundary Control	——— s ——— s ——— Geotextile Fabric Type S	Small Hidden Object	
Existing City Corporate Limits or Reservation Boundary	· · · · · · · Subgrade Reinforcement	—— —— —— Large Hidden Object	
Existing State or International Line		Phantom Object	
Existing Township	Countours	——— Existing Conditions Object	
Existing County	Depression Contours	— - — - — - — Centerline Main	
	——————————————————————————————————————	— — — — — — — Centerline Secondary	NORTH DAKOTA DEPARTMENT OF TRANSPORTATION 07-01-14
	Profile	— · — · — · Excavation Limits	DATE CHANGE 09-23-16 Added and Revised Items,
Existing Sixteenth Section Line	——————————————————————————————————————		Organized by Functional Groups General Revisions Organized Specification of PROFESSIONAL PE-4683
Existing Centerline	—— — Topsoil Profile	Sheet Piling	OR TH DAY
——— ——— Tangent Line			12 18 2020

SYMBOLS

D-101-30



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CSB	Continuous Split Barrel Sample
EA)	Flight Auger Sample
SB	Split Barrel Sample
F	Thinwall Tube Sample
Z	Standard Penetration Test
Incl	Inclinometer Tube
	Excavation Unit
•	Existing Ground Water Well Bore Hole

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	07-01-14]
	REVISIONS	1
DATE	CHANGE]
12-18-20	General Revisions	





				•	Flexible Delineator			F	Þ	Highway Sign (Exst, Ppsd)
					Flexible Delineator Type A (Exst, Ppsd)		þ	þ	þ	Mile Post Type A (Exst-Ppsd-Reset)
					Flexible Delineator Type B (Exst, Ppsd)		þ	þ		Mile Post Type B (Exst, Ppsd)
					Flexible Delineator Type C (Exst, Ppsd)		lþ.	þ		Mile Post Type C (Exst, Ppsd)
			0	0	Flexible Delineator Type D (Exst, Ppsd)			k	k	Object Marker Type I (Exst, Ppsd)
			③	③	Flexible Delineator Type E (Exst, Ppsd)			k	k	Object Marker Type II (Exst, Ppsd)
	\vdash	⊢	\vdash	\vdash	Delineator Type A (Exst, Ppsd, Diamond Grade-Reset)			k	k	Object Marker Type III (Exst, Ppsd)
	⊬	⊩	\vdash	\vdash	Delineator Type B (Exst, Ppsd, Diamond Grade-Reset)				٥	Existing Reference Marker
	₩-	₩	₩-		Delineator Type C (Exst, Ppsd, Diamond Grade)		O .		Θ •	Road Closure Gate 18 Ft (Exst, Ppsd)
	0	0	0		Delineator Type D (Exst, Ppsd, Diamond Grade)	Θ—	0	G)	Road Closure Gate 28 Ft (Exst, Ppsd)
	③	③	③		Delineator Type E (Exst, Ppsd, Diamond Grade)	Θ	0	Θ	0	Road Closure Gate 40 Ft (Exst, Ppsd)
		I			Barricade (Type I, Type II, Type III)					Existing Railroad Battery Box
\bigoplus_{\blacksquare}	[ightharpoons	000		Arrow Panel (Caution Mode, Double Direction, Left Directional, Right Directional, Sequencing, Truck Mounted)				×	Existing RR Profile Spot
				\triangle	Attenuation Device				*	Existing Railroad Crossbuck
					Truck Mounted Attenuator				×	Existing Railroad Frog
				•	Delineator Drums					Existing Mailbox (Private, Federal)
					Flagger					
				←	Tubular Marker					
				A	Traffic Cone					
				ш	Back to Back Vertical Panel Sign				NORTH	DAKOTA
									DEPARTMENT OF	TRANSPORTATION 11-14 RK J. HC

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	REVISIONS	1
DATE	CHANGE	7
12-18-20	General Revisions	(K



SYMBOLS

D-101-32

Ċ	Existing Luminaire			High Mast Light Standard 3 Luminaire (Exst, Ppsd)		0		Existing Traffic Signal Standard
	Luminaire LED			High Mast Light Standard 4 Luminaire (Exst, Ppsd)	\otimes	\otimes	②	Pull Box (Exst-Ppsd-Undefined)
	Existing Light Standard Luminaire			High Mast Light Standard 5 Luminaire (Exst, Ppsd)	\otimes	\otimes		Intelligent Transportation Pull Box (Exst, Ppsd)
<u> </u>	Relocate Light Standard			High Mast Light Standard 6 Luminaire (Exst, Ppsd)		A .	A	Transformer (Exst, Ppsd)
$- \diamondsuit$	Light Standard Light LED Luminaire			High Mast Light Standard 7 Luminaire (Exst, Ppsd)	0	-	당	Power Pole (Exst-Ppsd-with Transformer)
-0	Light Standard 35 Watt High Pressure Sodium Vapor Luminaire			High Mast Light Standard 8 Luminaire (Exst, Ppsd)			•	Wood Pole (Exst, Ppsd)
\rightarrow	Light Standard 50 Watt High Pressure Sodium Vapor Luminaire			High Mast Light Standard 9 Luminaire (Exst, Ppsd)		ø	•	Pedestrian Push Button Post (Exst, Ppsd)
-	Light Standard 70 Watt High Pressure Sodium Vapor Luminaire			High Mast Light Standard 10 Luminaire (Exst, Ppsd)			0	Existing Pole
→	Light Standard 100 Watt High Pressure Sodium Vapor Luminaire	\bigcirc		Overhead Sign Structure Load Center (Exst, Ppsd)			\diamond	Existing Telephone Pole
→	Light Standard 150 Watt High Pressure Sodium Vapor Luminaire			Traffic Signal Controller (Exst, Ppsd)			٥	Existing Post
-	Light Standard 200 Watt High Pressure Sodium Vapor Luminaire	\Box		Pad Mounted Traffic Signal Controller (Exst, Ppsd)	•	•	•	Connection Conductor (Ground, Neutral, Phase 1, Phase 2)
-	Light Standard 250 Watt High Pressure Sodium Vapor Luminaire	¢	\vdash	Flashing Beacon (Exst, Ppsd)				
—	Light Standard 310 Watt High Pressure Sodium Vapor Luminaire	0	•	Concrete Foundation (Exst, Ppsd)				
<u> </u>	Light Standard 400 Watt High Pressure Sodium Vapor Luminaire	00	0—0	Pipe Mounted Flasher (Exst, Ppsd)				
$-\Phi$	Light Standard 700 Watt High Pressure Sodium Vapor Luminaire			Pad Mounted Feed Point (Exst, Ppsd)				
—	Light Standard 1000 Watt High Pressure Sodium Vapor Luminaire	0.0	0 0	Pipe Mounted Feed Point with Pad (Exst, Ppsd)				
-	Emergency Vehicle Detector	\bigcirc	\bigcirc	Pole Mounted Feed Point (Exst, Ppsd)				
-	Video Detection Camera			Junction Box (Exst, Ppsd)				
				Existing Pedestrian Head with Number				
		\supset		Existing Signal Head			Γ	NORTH DAKOTA
			•	Pole Mounted Head			-	DEPARTMENT OF TRANSPORTATION 07-01-14 REVISIONS DATE CHANGE
		¤		Existing Lighting Standard Pole				12-18-20 General Revisions PROFESSIONAL PE-4683





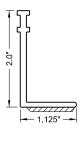
D-101-33

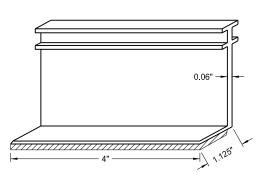
	(_)	(_)	(<u></u>	Existing Manhole (Electrical, Gas, Telephone)	Cap or Si Ex	tub st Gas, Exst Sa	nitary, Exst St	orm Drain, Pps	d Storm Drain,	Exst Water	
		()	(⊗)	Water Manhole (Exst, Exst with Valve)	٥	3	3	3	3		
	(_)	0	(⊗)	Sanitary Sewer Manhole (Exst, Ppsd, Exst with Valve)	Existing F	Pedestal lectrical, Teleph	one, Fiber Opt	tic Telephone, ⁻	ΓV, Fiber Optic	TV, Undefined	
	(_)	0	•	Sanitary Force Main Manhole (Exst, Ppsd, Exst with Valve)	Ω	ם	Ω	Ω	Δ	Ω	
<u>()</u>	0	(@)	(10)	Storm Drain Manhole (Exst, Ppsd, Exst with Inlet, Ppsd with Inlet)	Existing F Ga	Pipe Vent as, Fuel, Sanitai	ry, Storm Drair	n, Water, Undef	ined		
		\bigcirc	(⊛)	Force Main Storm Drain Manhole (Exst, Exst with Valve)	1	า	1	1	ſ	า	
	\circ	O	(_)	Manhole (Ppsd, Ppsd 48 Inch, Exst Undefined)	Valve Ex	st Gas, Exst W	ater, Ppsd Wa	ter, Exst Undef	ined		
			Ø	Existing Water Appurtenance	8	8	Θ	*			
		Þ	S	Sprinkler Head (Exst, Ppsd)	Pump Sa	ınitary, Storm D	rain, Exst Wat	er			
		q	•	Fire Hydrant (Exst, Ppsd)	ø	ø	ø				
		©.	0	Cleanout (Exst Sanitary, Underdrain)	Corrugate	ed Metal End S	ection (18, 24,	30, 36, 42, 48,	54, 60 Inch)		
		(<u>()</u>)	OID	Existing Catch Basin Inlet (Round, Square)	◁	\triangleleft					
		(OID	Existing Curb Inlet (Round, Square)	Reinforce	ed Concrete En	d Section (18,	24, 30, 36, 42,	48, 54, 60 Inch	n)	
			OID	Existing Slotted Reinforced Concrete Pipe							
	0	0	0	Catch Basin (Riser 30 Inch, Beehive, Type A)							
		0		Inlet Mountable Curb (Type A, Type B)	-	Existing U	Itility Marker				
		0		Inlet Saddle Base (Type 1, Type 2)		Existing M	l eter				
	0	0	0	Inlet Special (Catch Basin, Type 1, Type A)	0	Existing F	uel Dispenser	s			
0	0			Inlet (Tee, Type 1, Type 2, Type 2 Double)	•	Existing F	uel Filler Pipes	S			
			©	Median Drain	0	Existing F	uel Leak Sens	sors			NC
1	1			Headwall (Exst, Ppsd, Ppsd Single with Vegitation Barrier, Ppsd Double with Vegitation Barrier)							DEPARTMEN
	_	_									DATE

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DEPARTM	NORTH DAKOTA IENT OF TRANSPORTATION	
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	REVISIONS	١.
DATE	CHANGE	
12-18-20	General Revisions Sheet added - Continued from D-101-32	(

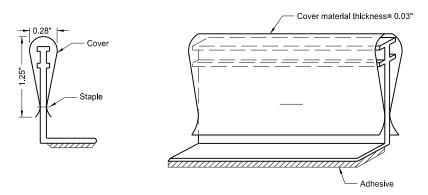


LANE MARKERS (Spotting Tab for Seal Projects only)





Marker Body



Marker Body with Protective Cover

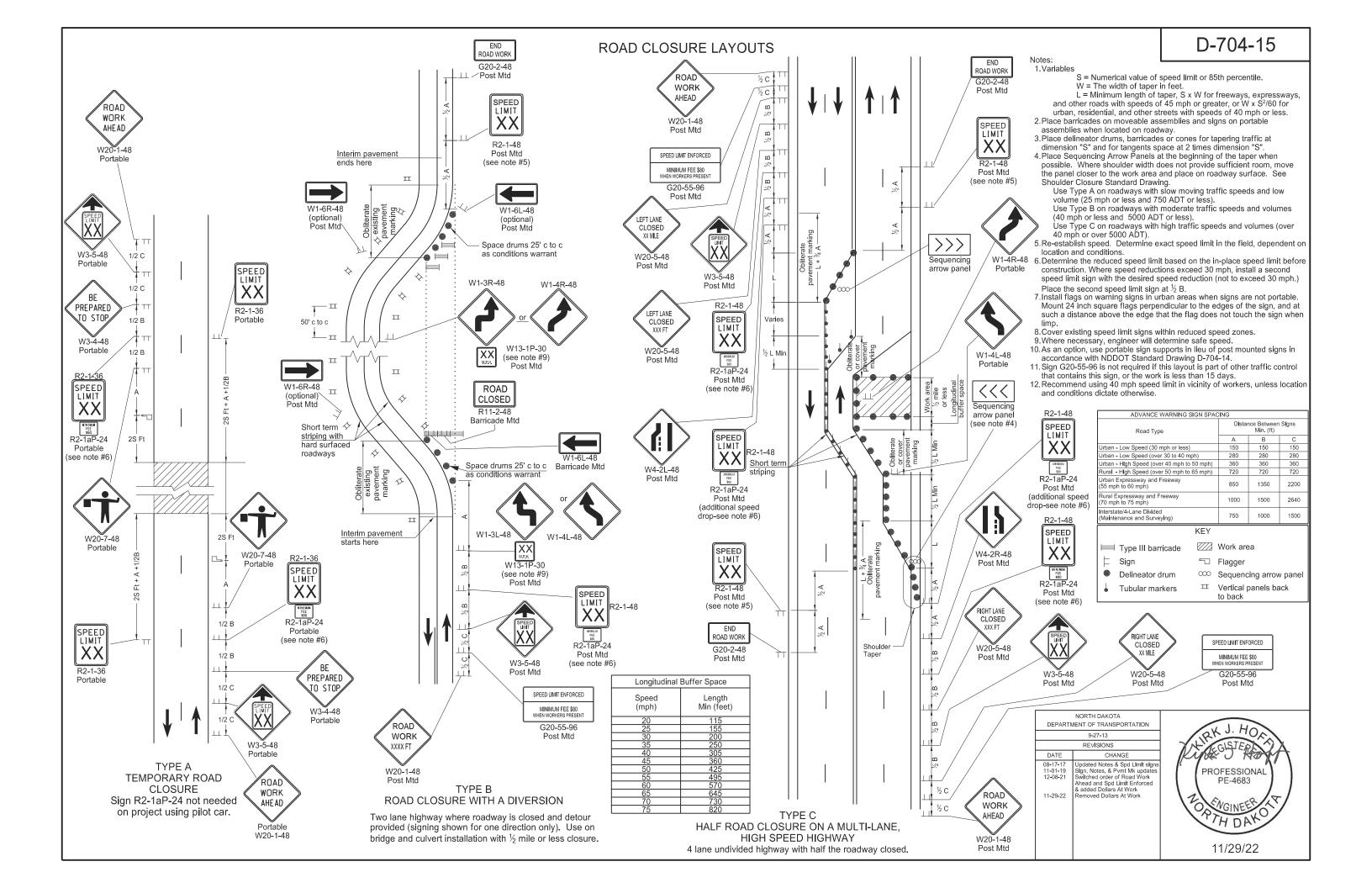
- 1. Install lane line markers as shown, prior to beginning the seal coat.
- 2. Attach cover to vertical part of marker so traffic does not cause it to detach, but it can be easily
- 3. Remove protective covers immediately after seal coat is applied.
- 4. Remove markers after permanent pavement marking is installed.
- 5. Use marker body and cover manufactured from polyurethane material.

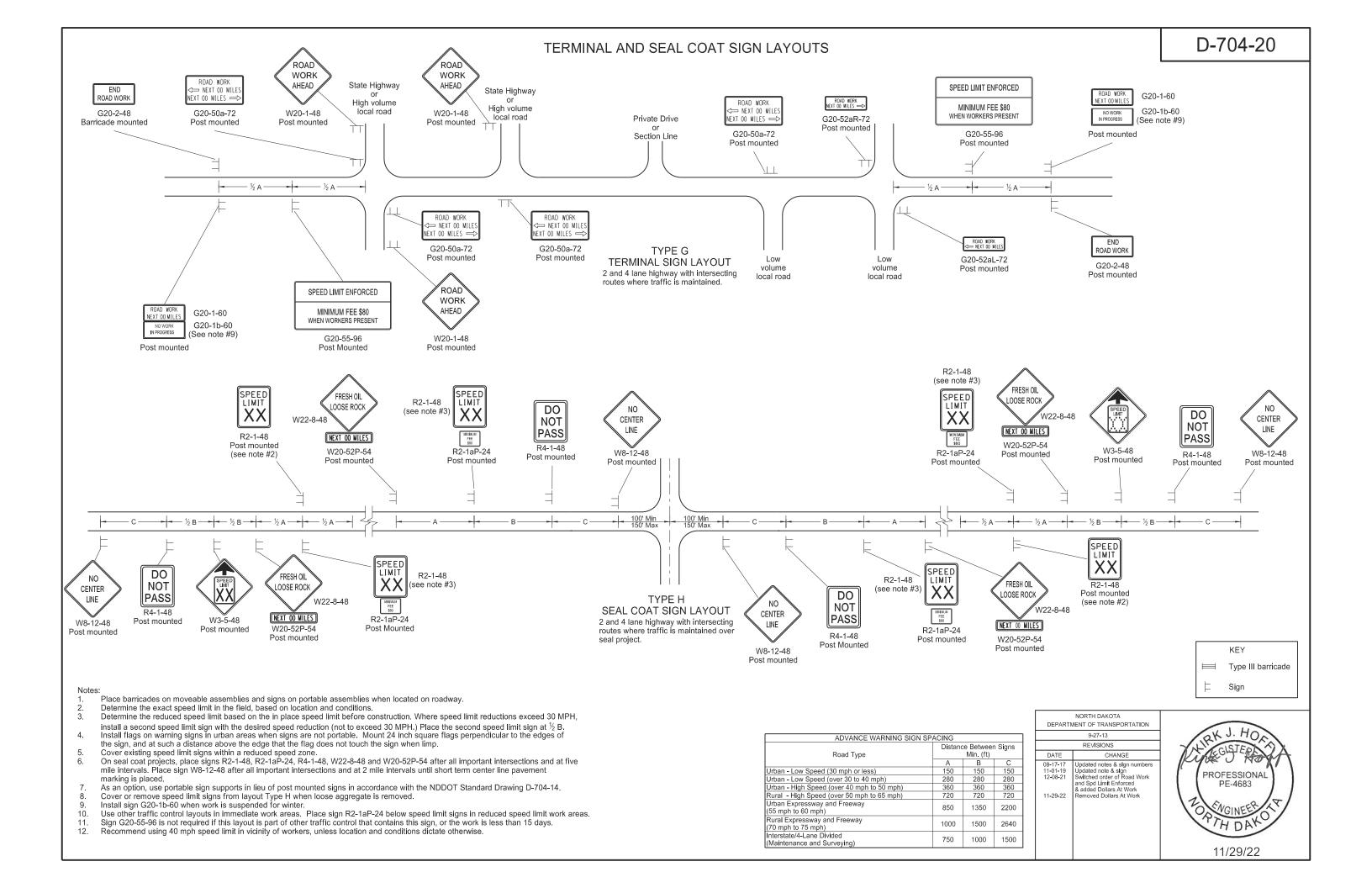
Marker types:
 Type Y - Yellow body and cover with yellow reflective tape on both sides.
 Type W - White body and cover with white reflective tape on one side.

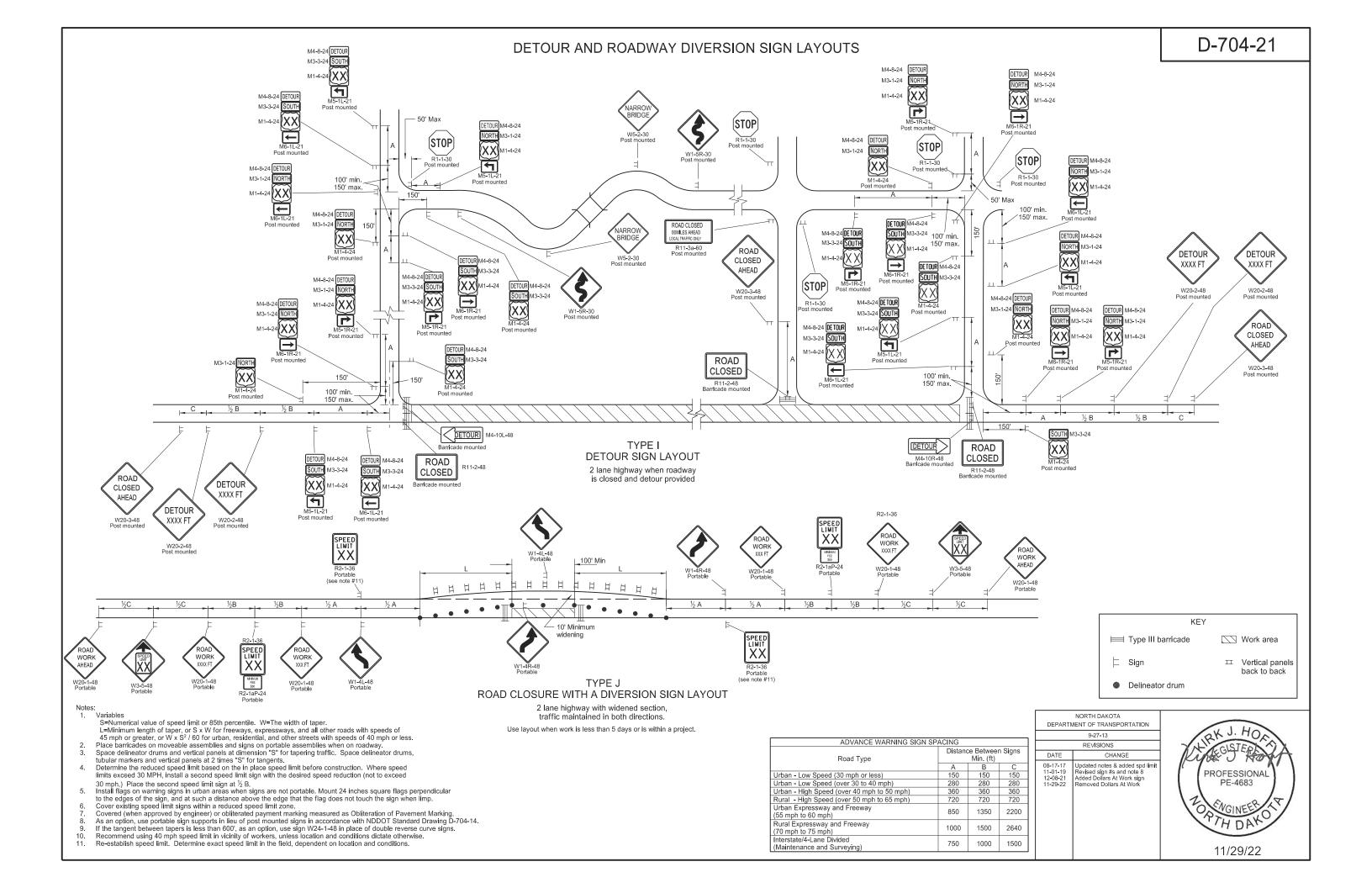
- 7. Use retroreflective tape with a minimum reflectance of 1200 candle power per foot-candle per square foot, using a .1 degree observation angle and 0 degree entrance angle.
- 8. Use adhesive conforming to AASHTO M 237.

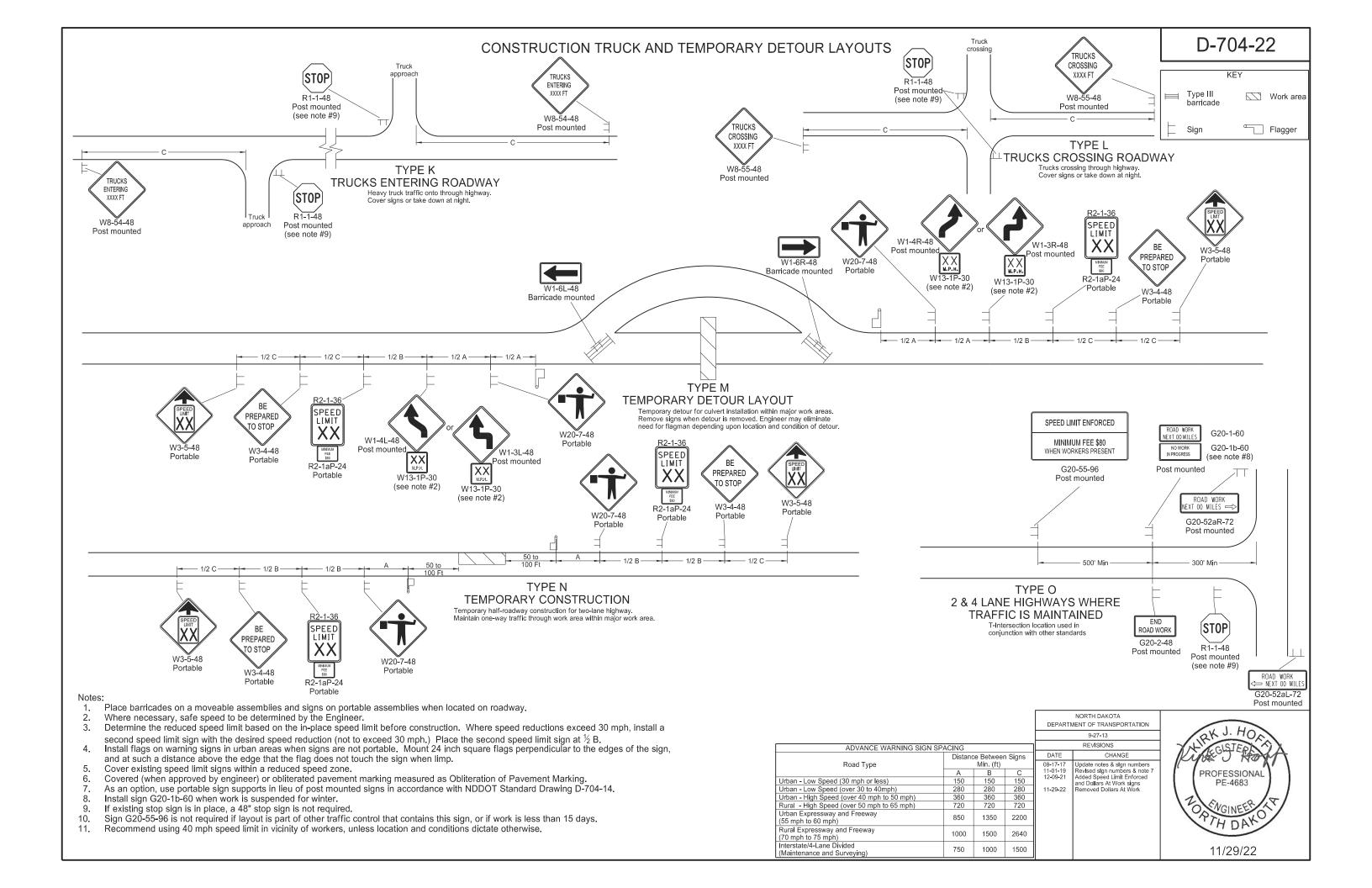
NORTH DAKOTA					
DEPARTI	MENT OF TRANSPORTATION				
	10-3-13				
	REVISIONS				
DATE	CHANGE				
9-27-17 10-03-19	Updated to active voice New Design Engr PE Stamp				

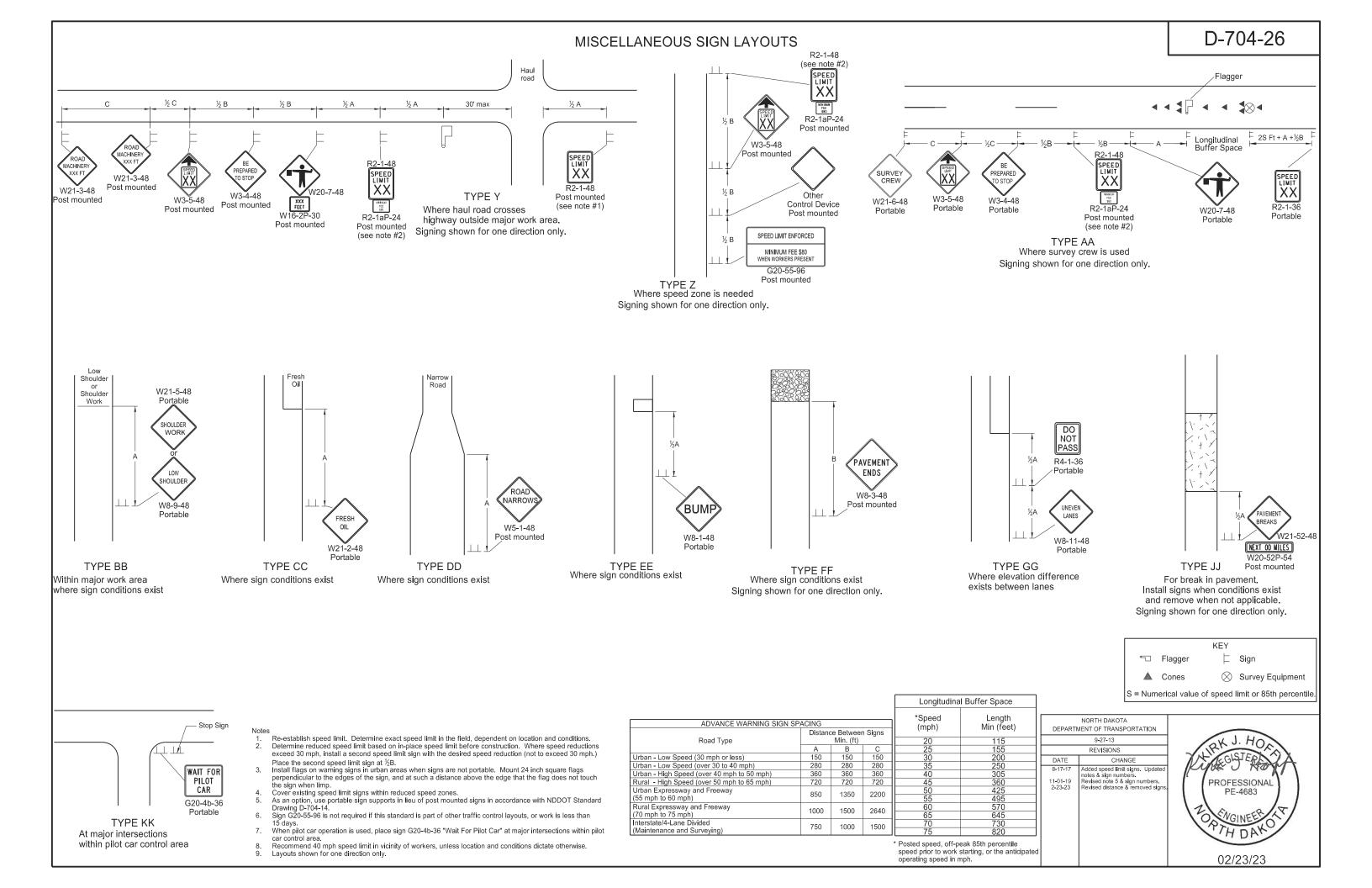
This document was originally issued and sealed by Kirk J Hoff, Registration Number PE-4683, on 10/03/19 and the original document is stored at the North Dakota Department of Transportation

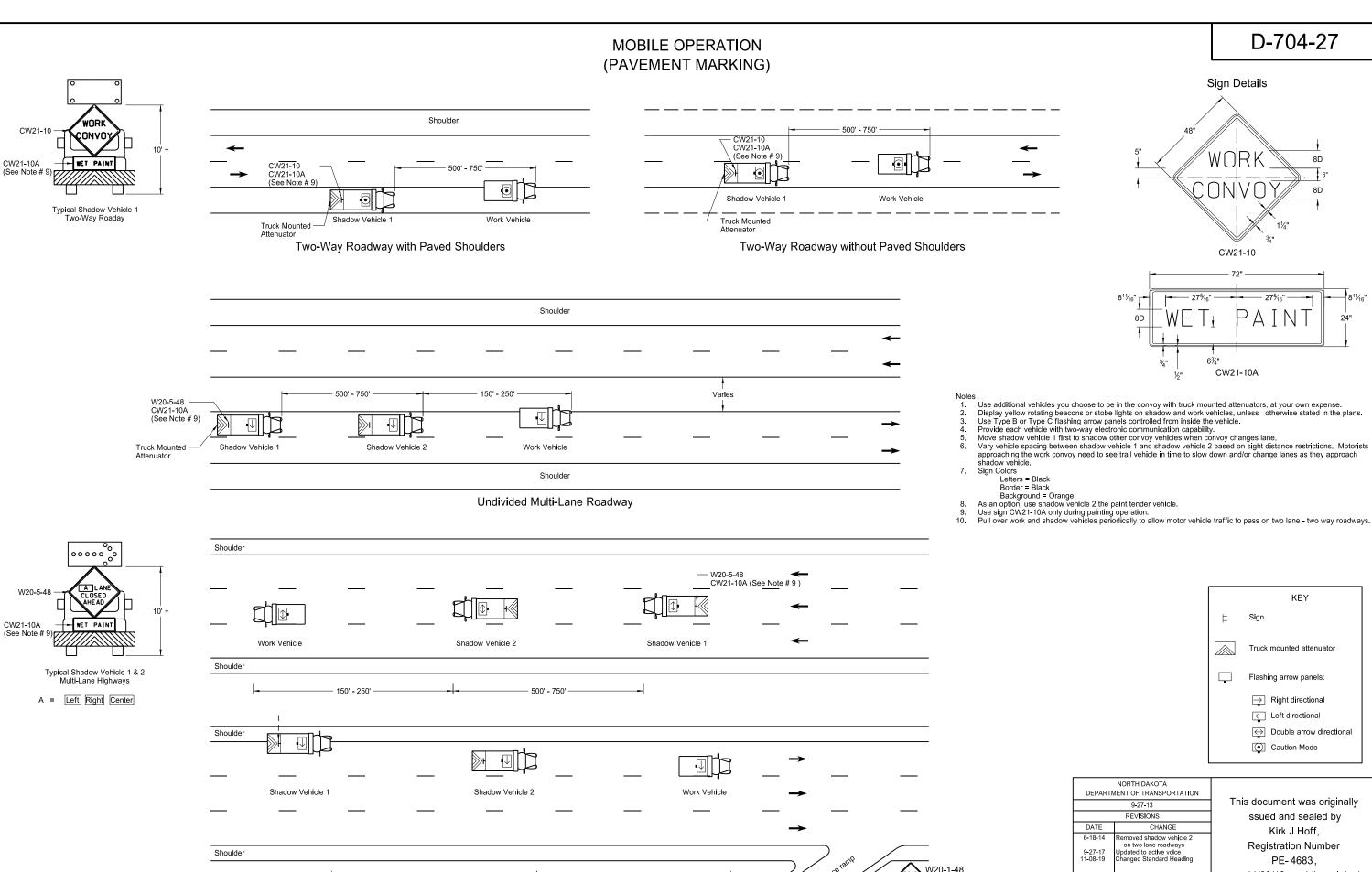










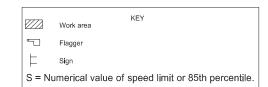


500' - 750'

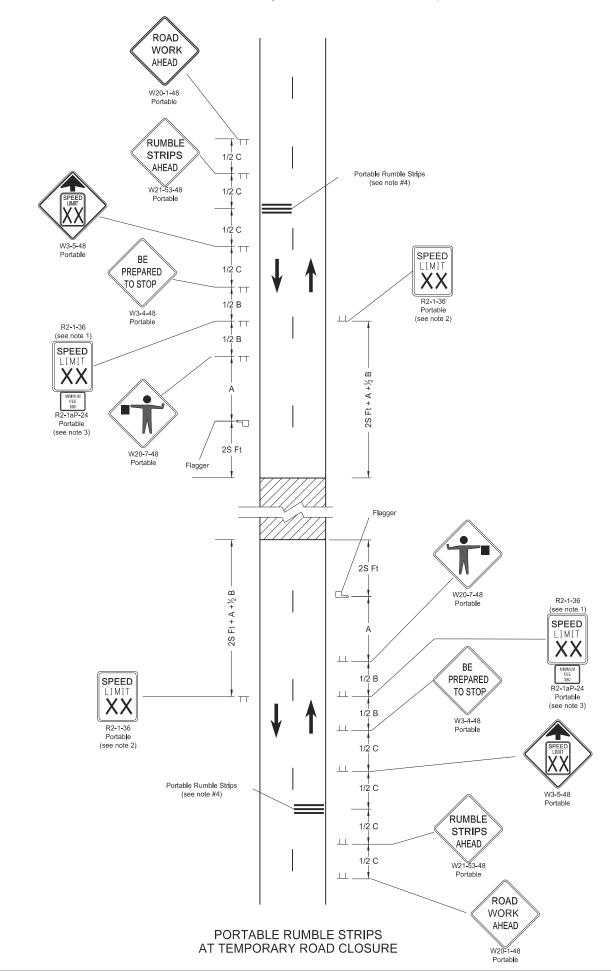
Divided Multi-Lane Highway

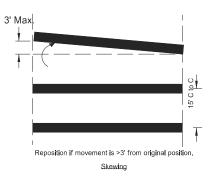
on 11/08/19 and the original document is stored at the North Dakota Department of Transportation

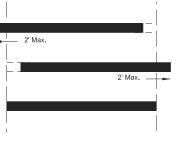
Two-Lane Roadway Portable Rumble Strips



ADVANCE WARNING SIGN S	SPACING		
Road Type	Dista	nce Between Mln. (ft)	Signs
	Α	В	С
Urban - High Speed (over 45 mph to 50 mph)	360	360	360
Rural - High Speed (over 50 mph to 65 mph)	720	720	720

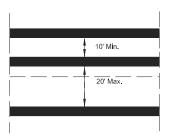






Reposition if movement is >2' from original position.

<u>Lateral</u>



Reposition if distance between strips is <10' or >20'.

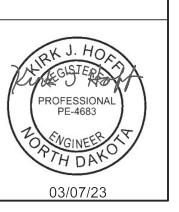
Perpendicular to Travel with or against traffic

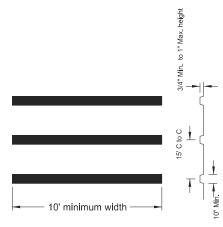
PORTABLE RUMBLE STRIPS ARRAY TYPES OF MOVEMENT AND MAXIMUM ALLOWANCES

Notes:

- Determine speed in the field based on location and conditions.
- Re-establish the speed limit. Determine the exact speed limit in the field, dependent on location and conditions.
- 3. Sign R2-1aP-24 is not required when pilot car operation is used.
- Do not use rumble strips on a non paved surface or in a preconstruction speed zone of 45 mph or less.

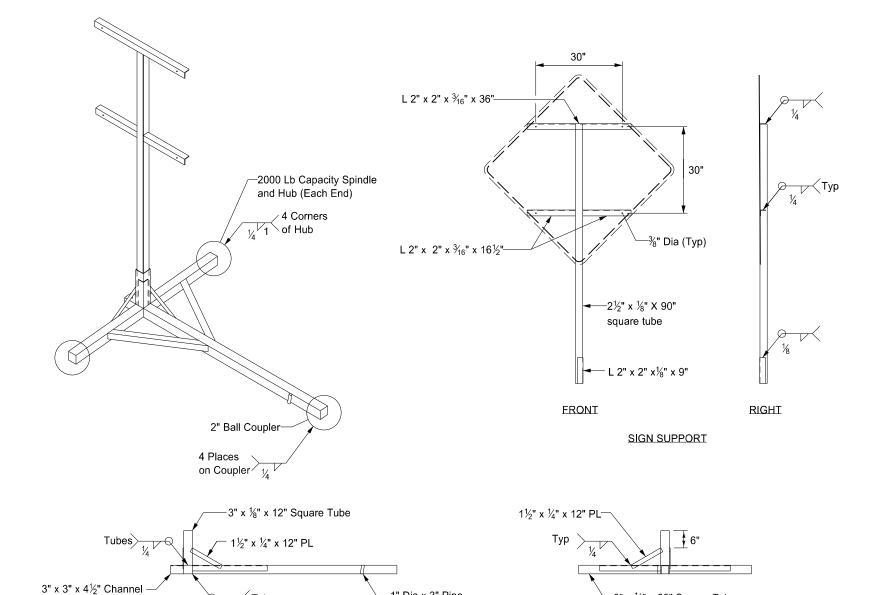
	NORTH DAKOTA					
DEPARTI	MENT OF TRANSPORTATION					
	02-22-22					
	REVISIONS					
DATE	CHANGE					
03/07/23	Use changed to mln 45 mph.					





PORTABLE RUMBLE STRIPS ARRAY DETAIL

PORTABLE SIGN SUPPORT ASSEMBLY

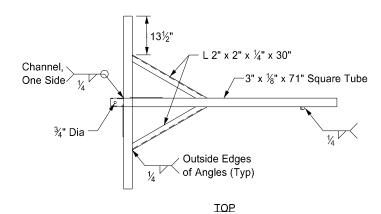


1" Dia x 3" Pipe

at 10 Degrees Offset

RIGHT

x 1/8" x 60" Square Tube



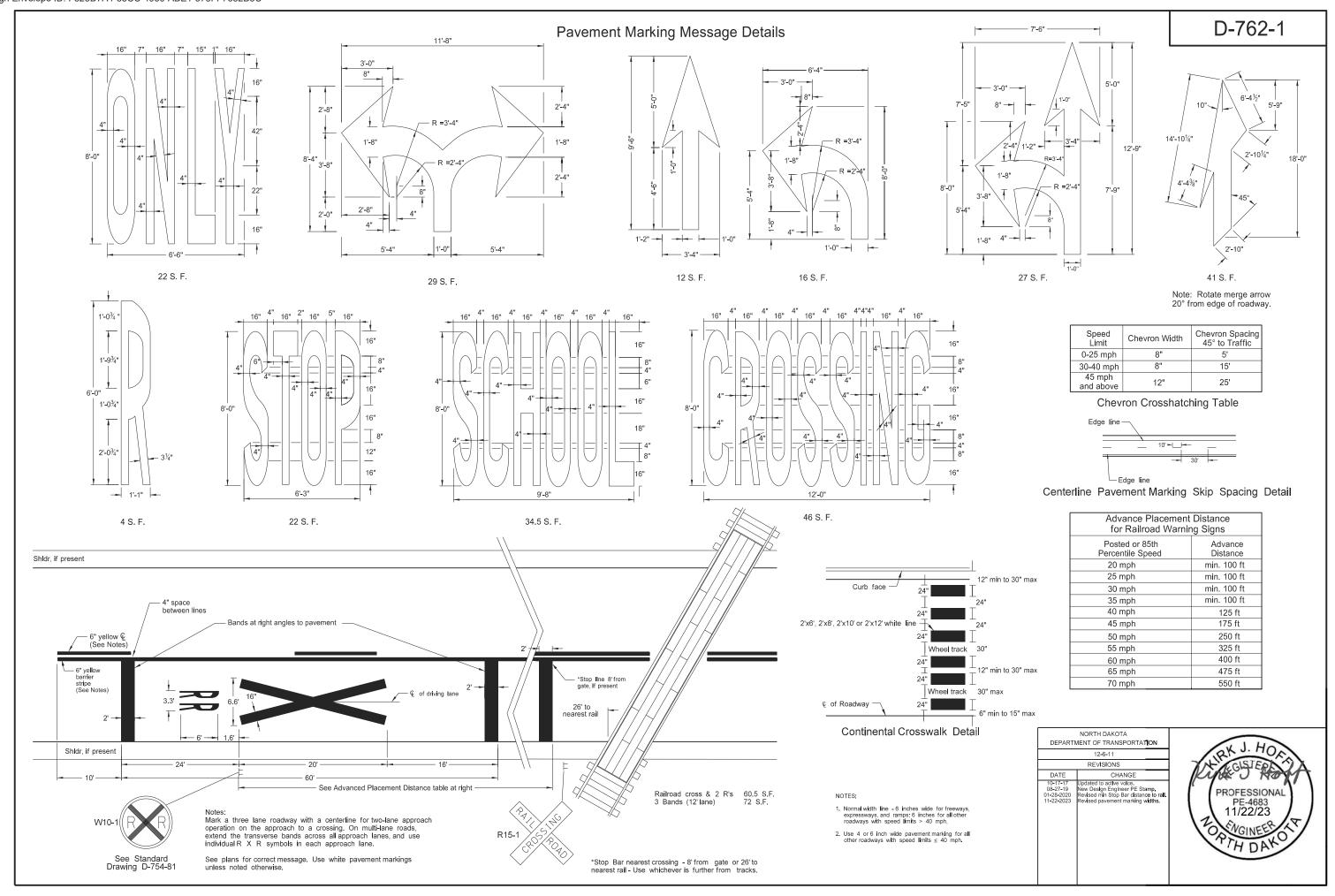
Tubes

TRAILER

Notes:

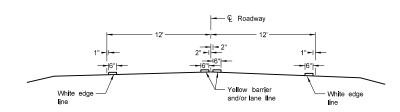
- 1. Maximum 250 pound weight of assembly.
- 2.) Use a 14" wheel and tire.
- Use no automotive and equipment axle assemblies for trailer-mounted sign supports.
- (4.) Other NCHRP 350 or MASH crash tested assemblies are acceptable.

DEPART	NORTH DAKOTA MENT OF TRANSPORTATION 11-23-10 REVISIONS	JRK J. HOX
DATE	CHANGE	The Color Land
		PROFESSIONA PE-4683 PE-4683 PH DAK 12 02 2020

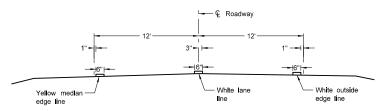


D-762-4

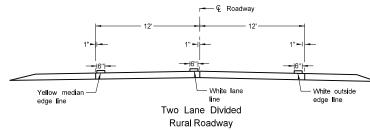
PAVEMENT MARKING



Two Lane Two Way
RURAL ROADWAY

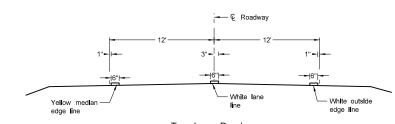


Two Lane Divided
Rural Roadway
PRIMARY HIGHWAY
Asphalt Section



PRIMARY HIGHWAY

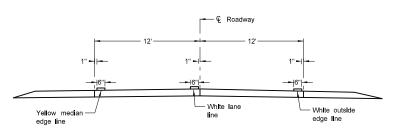
Concrete Section



Two Lane Roadway

INTERSTATE HIGHWAY

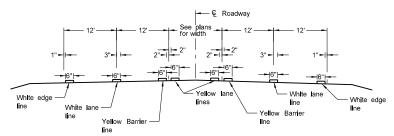
Asphalt Section



Two Lane Roadway

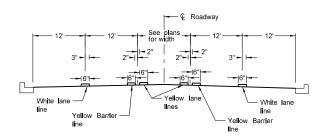
INTERSTATE HIGHWAY

Concrete Section



RURAL FIVE LANE ROADWAY

Asphalt Section

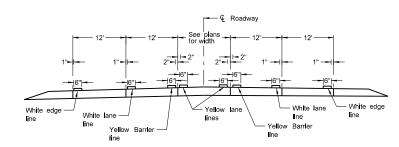


URBAN FIVE LANE SECTION

RURAL FOUR LANE ROADWAY Concrete Section

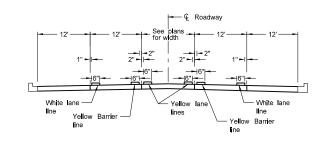
| — © Roadway | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12' | 12

URBAN FOUR LANE SECTION
Concrete Section



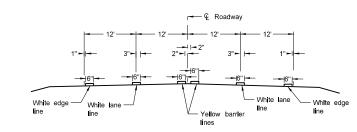
RURAL FIVE LANE ROADWAY

Concrete Section



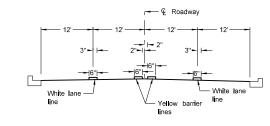
URBAN FIVE LANE SECTION

Concrete Section

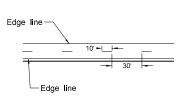


RURAL FOUR LANE ROADWAY

Asphalt Section



URBAN FOUR LANE SECTION Asphalt Section

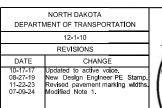


 Continue edge lines through private drives and field drives. Break edge lines for intersections.

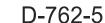
NOTES:

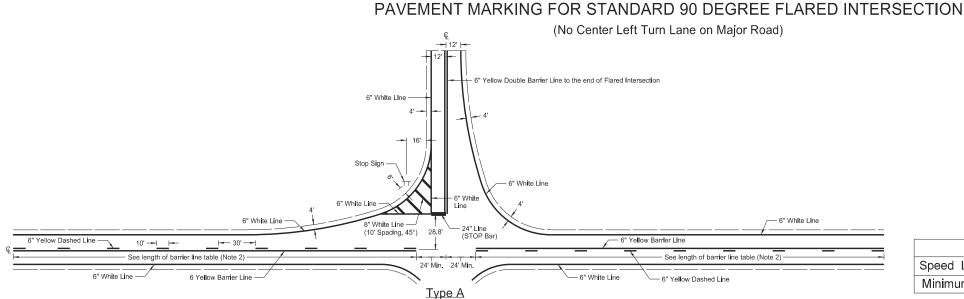
For section lines, county roads, and street approaches, stripe the radii and edge lines of the paved surface within the right of way except where curb and gutter is present.

- Normal width line 6 inches wide for freeways, expressways, and ramps; 6 inches for all other roadways with speed limits > 40 mph,
- Use 4 or 6 inch wide pavement marking for all other roadways with speed limits < 40 mph.





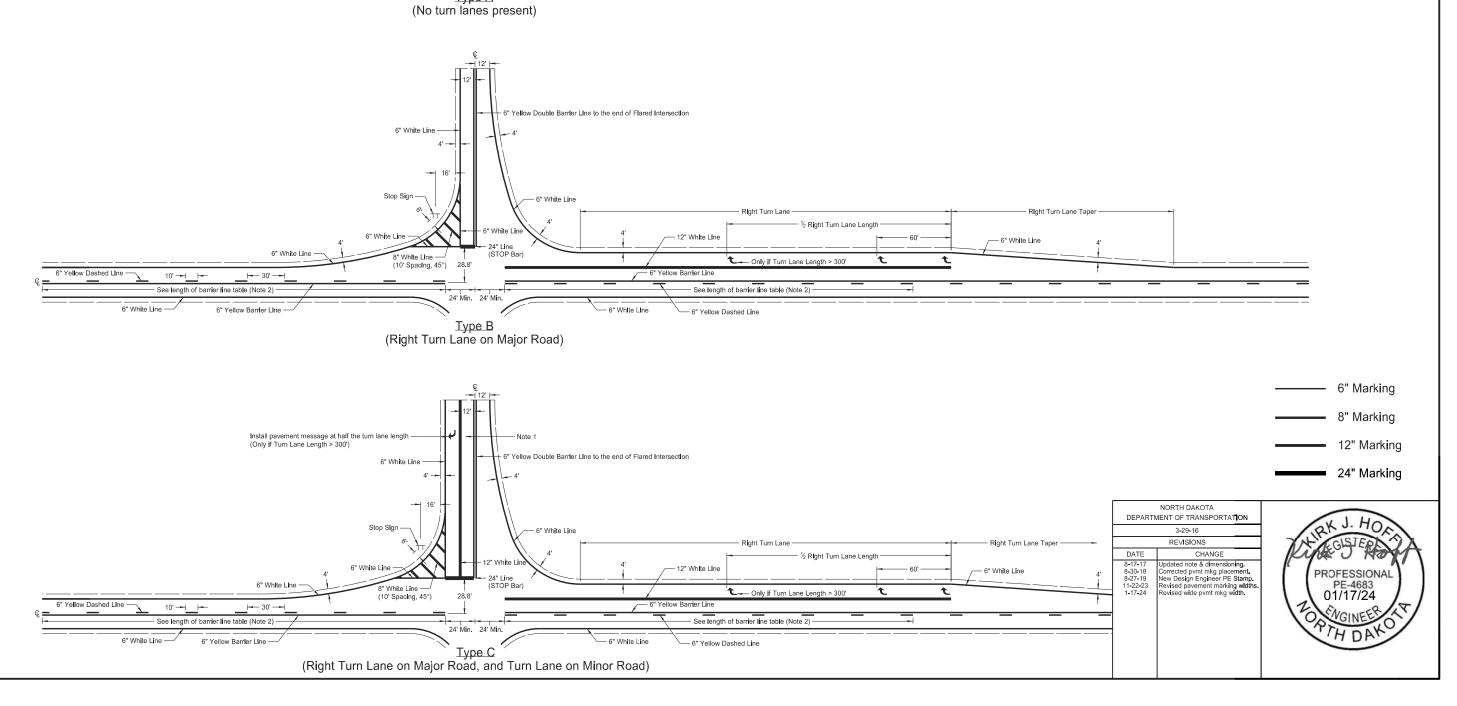




Notes

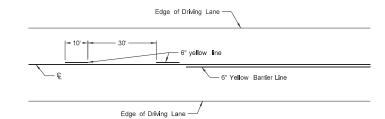
- 1. At "T" intersections (3-leg), additionally install left turn pavement marking message arrow.
- 2. The barrier lines have variable distances dependent on speed limit. Obtain barrier line length from table below (stopping sight distance.)
- 3. Normal width line 6 inches wide for freeways, expressways, and ramps; 6 inches for all other roadways with speed limits > 40 mph.
- 4. Use 4 or 6 inch wide pavement marking for all other roadways with speed limits ≤ 40.
- 5. Wide line 8 inches wide if 4 inch normal width lines are used and 12 inches wide if 6 inch normal width lines are used.

Table for Length of Barrier Line										
Speed Limit (mph)	30	35	40	45	50	55	60	65	70	
Minimum Length	200'	250'	305'	360'	425'	495'	570'	645'	730'	

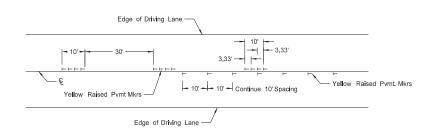


SHORT-TERM PAVEMENT MARKING

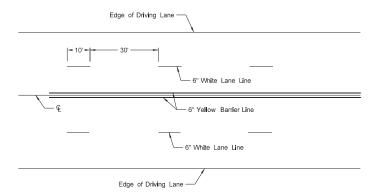
D-762-11



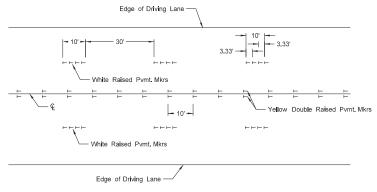
Painted or Tape Lines



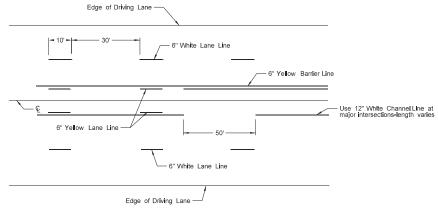
Raised Pavement Markers
TWO-LANE TWO-WAY ROADWAY



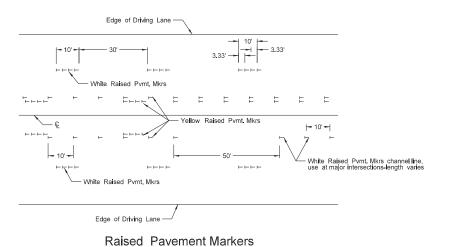
Painted or Tape Lines



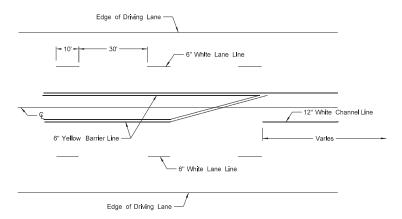
Raised Pavement Markers
FOUR LANE ROADWAY



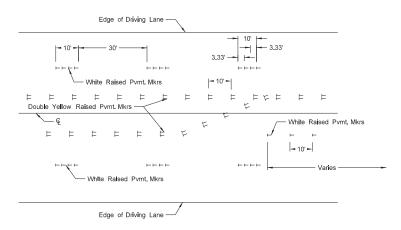
Painted or Tape Lines



FIVE LANE ROADWAY TWO WAY LEFT TURN



Painted or Tape Lines



Raised Pavement Markers

FIVE LANE ROADWAY WITH MARKED ISLANDS

NOTES:

- Place no passing zones on two-lane two-way roadways as shown. In lieu of short term no
 passing zone pavement markings, place no passing zone signs. Replace no passing zone signs
 with short term no passing zone pavement marking within three days.
- 2. Place short term center line stripe (paint) on top lift to match exact placement of permanent stripe.
- 3. Remove raised markers and tape markings after permanent pavement marking is installed.
- Normal width line 6 inches wide for freeways, expressways, and ramps;
 inches for all other roadways with speed limits > 40 mph.
- 5. Use 4 or 6 inch wide pavement marking for all other roadways with speed limits \leq 40 mph.
- 6. Wide lines 8 inches wide if 4 inch normal width lines are used and 12 inches wide if 6 inch normal width lines are used.

NORTH DAKOTA						
DEPARTMENT OF TRANSPORTATION						
	12-1-10					
REVISIONS						
DATE	CHANGE	1				
3-29-16	Re-numbered to be D-762-11 (previously was D-762-6)	1				
10-17-17	Updated to active voice.					
8-27-19	New Design Engineer PE Stamp.					
11-22-23	Revised pavement marking widths					
1 17 04	Dougland wide numb marking width					

