



March 31, 2026

ADDENDUM 2 – JOB 24772

TO: All prospective bidders on Project NH-3-281(149)231, Job No. 24772 scheduled for the April 10, 2026 bid opening.

This addendum has been issued for the above referenced Job, Please see the attached summary from Christopher K. Beggs, P.E. dated March 30, 2026 for an explanation of changes.

This addendum is to be incorporated into the bidder's proposal for this project. If there are bid item changes the AASHTOWare Project Bids files should be updated by downloading the addendum file from the Bid Express on-line bidding exchange at <http://www.bidx.com/> and load it into the AASHTOWare Project Bids program.

A handwritten signature in blue ink, appearing to read "Phillip Murdoff", is located below the main text.

PHILLIP MURDOFF, P.E. – CONSTRUCTION SERVICES ENGINEER

80: jwj

Enclosure

PLAN ADDENDUM SUMMARY AND APPROVAL

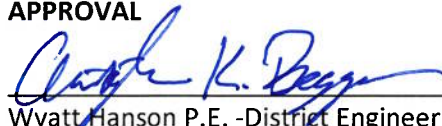
PROJECT INFORMATION		
Date: 3/26/2026	Project: NH-3-281(149)231	PCN: 24772
Lead Designer: Coltin Sharbono		Technical Support: Jesse Carlsen
Bid Opening Date: 4/10/2026	Job Number: 24772	Addendum Number: 2

PLAN SHEET CHANGES		
Section	Sheet(s)	Description
008	001	Changing From Rumble Strips – Asphalt Centerline to Sinusoidal Rumble Strips – Asphalt Centerline
		Adding D-760-3 Sinusoidal Rumble Strips Standard Drawing
010	003	Revised table to match
002	001	Added D-760-3, D-101-2 and D-101-4 to List of Standard Drawings

SPECIAL PROVISION CHANGES		
SP Number	Page(s)	Description

BID ITEMS CHANGES					
Spec	Code	Description	Unit	Previous Quantity	Revised Quantity
760	0007	Rumble Strips – Asphalt Centerline	MILE	19.31	0
760	0027	Sinusoidal Rumble Strips – Asphalt Centerline	MILE	0	19.31

APPROVAL

For 
 Wyatt Hanson P.E. -District Engineer


 Date

BID ITEMS

Project: NH-3-281(149)231 (PCN-24772)

Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.

Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$\$	000	\$\$\$\$\$	00
001	103	0100	CONTRACT BOND	L SUM	1.				
002	420	0111	CRS2P EMULSIFIED ASPHALT	GAL	26,137.				
003	420	0160	BLOTTER MATERIAL CL 44	TON	956.				
004	421	0011	AGGREGATE FOR MICROSURFACING TYPE III	TON	3,010.				
005	421	0020	ASPHALT EMULSION FOR MICROSURFACING	GAL	100,330.				
006	702	0100	MOBILIZATION	L SUM	1.				
007	704	0100	FLAGGING	MHR	800.				
008	704	1000	TRAFFIC CONTROL SIGNS	UNIT	1,276.				
009	704	1048	PORTABLE RUMBLE STRIPS	EA	2.				
010	704	1067	TUBULAR MARKERS	EA	200.				
011	704	1185	PILOT CAR	HR	300.				
012	760	0027	SINUSOIDAL RUMBLE STRIP - ASPHALT CENTERLINE	MILE	19.310				
013	762	0103	PVMT MK PAINTED-MESSAGE	SF	1,376.				
014	762	0131	EPOXY PVMT MK 6IN LINE-GROOVED	LF	247,603.				
015	762	0134	EPOXY PVMT MK 12IN LINE-GROOVED	LF	9,265.				
016	762	0135	EPOXY PVMT MK 24IN LINE-GROOVED	LF	1,762.				

TABLE OF CONTENTS

REVISED 3/30/2026	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-3-281(149)231	2	1

PLAN SECTIONS

LIST OF STANDARD DRAWINGS

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	3	General Details
30	6	Typical Sections
100	2	Work Zone Traffic Control

Number	Description
D-101-1, 2,3	NDDOT Abbreviations
D-101-2	NDDOT Abbreviations
D-101-4	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-704-7	Breakaway Systems For Construction Zone Signs - Perforated Tube
D-704-8	Breakaway Systems For Construction Zone Signs - U-Channel Post
D-704-9	Construction Sign Details - Terminal And Guide Signs
D-704-10	Construction Sign Details - Regulatory Signs
D-704-11, 11A	Construction Sign Details - Warning Signs
D-704-13	Barricade And Channelizing Device Details
D-704-14	Construction Sign Punching And Mounting Details
D-704-15	Road Closure Layouts
D-704-20	Terminal And Seal Coat 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-760-3	Rumble Strips Undivided Highways (Shoulders 4' Or Greater)
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
250(25)	Tribal Employment Rights Ordinance (TERO)

ESTIMATE OF QUANTITIES

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NH-3-281(149)231	8	1

REVISED 03/26/2026

SPEC CODE	ITEM DESCRIPTION	UNIT	MAINLINE	TOTAL
-----	-----	-----	-----	-----
103	0100 CONTRACT BOND	L SUM	1	1
420	0111 CRS2P EMULSIFIED ASPHALT	GAL	26,137	26,137
420	0160 BLOTTER MATERIAL CL 44	TON	956	956
421	0011 AGGREGATE FOR MICROSURFACING TYPE III	TON	3,010	3,010
421	0020 ASPHALT EMULSION FOR MICROSURFACING	GAL	100,330	100,330
702	0100 MOBILIZATION	L SUM	1	1
704	0100 FLAGGING	MHR	800	800
704	1000 TRAFFIC CONTROL SIGNS	UNIT	1,276	1,276
704	1048 PORTABLE RUMBLE STRIPS	EA	2	2
704	1067 TUBULAR MARKERS	EA	200	200
704	1185 PILOT CAR	HR	300	300
760	0027 SINUSOIDAL RUMBLE STRIP - ASPHALT CENTERLINE	MILE	19.31	19.31
762	0103 PVMT MK PAINTED-MESSAGE	SF	1,376	1,376
762	0131 EPOXY PVMT MK 6IN LINE-GROOVED	LF	247,603	247,603
762	0134 EPOXY PVMT MK 12IN LINE-GROOVED	LF	9,265	9,265
762	0135 EPOXY PVMT MK 24IN LINE-GROOVED	LF	1,762	1,762
762	0136 EPOXY PVMT MK MESSAGE-GROOVED	SF	1,120	1,120
762	0430 SHORT TERM 4IN LINE-TYPE NR	LF	123,848	123,848
762	1106 PVMT MK PAINTED 6IN LINE	LF	398,186	398,186
762	1108 PVMT MK PAINTED 8IN LINE	LF	203	203
762	1112 PVMT MK PAINTED 12IN LINE	LF	10,579	10,579
762	1124 PVMT MK PAINTED 24IN LINE	LF	1,844	1,844

	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-3-281(149)231	10	3

2nd YEAR PERMANENT PAVEMENT MARKING	
RP 253.710 HWY 281 TO RP 247.177 HWY 281	
MAINLINE	TOTAL
YELLOW PAINTED, 10' LINE, 30' SKIP 6"	2,782 LF
PVMT MK PAINTED 6IN LINE BARRIER-6" YELLOW-NPZ	2,982 LF
PVMT MK PAINTED 6IN LINE 6" WHITE EDGELINE	69,527 LF
Total=	75,291 LF
PVMT MK PAINTED 8IN LINE	101 LF
PVMT MK PAINTED 12IN LINE	657 LF
PVMT MK PAINTED 24" LINE	41 LF

2nd YEAR PVMT MK PAINTED-MESSAGE			
RP 253.710 HWY 281 5 TO RP 247.177 HWY 281			
ITEM DESCRIPTION	BASIS	#	TOTAL
ARROW	16 SF/Each	8	128 SF

Item	Road Miles	Skipped Miles	Total Miles
SINUSOIDAL RUMBLE STRIPS-CENTERLINE	22.181 Miles	2.869 Miles	19.312 Miles
SINUSOIDAL RUMBLE STRIPS-SHOULDER	0.000 Miles	0 Miles	0.000 Miles

Basis of Estimate	
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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	Ocpy	occupy		
G Reg	gas line regulator	Lt	left	O/s	offset		
GMV	gas main valve	Lens	lenses	OC	on center	Rad or R	radius
G Mtr	gas meter	Lvl	level	C	one dimensional consolidation	RR	railroad
GSV	gas service valve	Lvng	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	OH	overhead	Recy	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
		Lum	luminaire	Pr	pair	RP	reference point
				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	pavement	RCFES	reinforced concrete flared end section
Hel	helical	MH	manhole	Ped	pedestal	RCP	reinforced concrete pipe
HDPE	high density polyethylene	Mkd	marked	Ped	pedestrian	RCPS	reinforced concrete pipe sewer
HM	high mast	Mkr	marker	PPP	pedestrian pushbutton post	RCTES	reinforced concrete traversable end section
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			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	Pl or \bar{P}	plate	Rd	road
		MGS	Midwest Guardrail System	Pt	point	Rdbd	road bed
		MM	mile marker	PE	polyethylene	Rdwy	roadway
Id	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 Pref	performed		
Intmdt	intermediate	Mtd	mounted	Prep	preparation		
Intscn	intersection	Mtg	mounting	Press.	pressure		
Inv	invert	Mk	muck	PRV	pressure relief valve		
IP	iron pipe			Prestr	prestressed		
				Pvt	private		
				PD	private drive		
Jt	joint	Neop	neoprene	Prod.	production/produce		
Jct	junction	Ntwk	network	Prog	programmed		
		N	North	Prop.	property		
		NE	Northeast	Ppsd	proposed		
		NW	Northwest	PB	pull box		
		NB	Northbound				
		No. or #	number				

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION	
07-01-14	
REVISIONS	
DATE	CHANGE
08-03-15	General Revisions
04-23-18	General Revisions
12-18-20	General Revisions
08-16-22	General Revisions
04-14-25	General Revisions



NDDOT ABBREVIATIONS

D-101-4

MEASUREMENTS

ac acres
 A ampere
 Bd Ft board feet
 Cd candela
 cm centimeter
 C coulomb
 CF cubic feet
 m3 cubic meter
 m3/s cubic meters per second
 CY cubic yard
 CY/mi cubic yards per mile
 D or Deg degree
 F Fahrenheit
 F farad
 ft feet/foot
 Gal gallon
 G giga
 Ha hectare
 H henry
 Hz hertz
 hr hour(s)
 in. inch
 J joule
 K kelvin
 kN kilo newton
 kPa kilo pascal
 kg kilogram
 kg/m3 kilogram per cubic meter
 km kilometer
 K Kip(s)
 LF linear foot
 L litre
 Lm lumen
 L sum lump sum
 Lx lux
 M Hr man hour
 M mega
 m meter
 m/s meters per second
 mi mile
 mL milliliter
 mm millimeter
 mm/hr millimeters per hour
 n nano
 N 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

T tesla
 T/mi tons per mile
 V volt
 W watt
 Wb weber

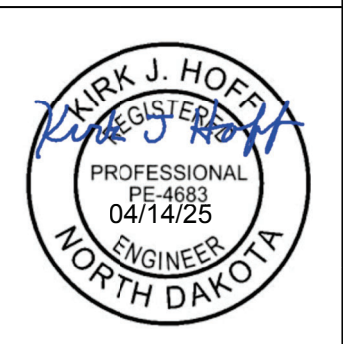
SURVEY DESCRIPTIONS

Az azimuth
 Bs backsight
 Brg bearing
 BP Cap blue plastic cap
 BS both sides
 BC brass cap
 CC closing corner
 CS curve to spiral
 Eq equation
 E external of curve
 FS far side
 FB field book
 Fs foresight
 Geod geodetic
 GIS Geographical Information System
 GPS Global Positioning System
 HI height of instrument
 IM iron monument
 I Pn iron pin
 LS Land Surveyor (licensed)
 LSIT Land Surveyor In Training
 L length of curve
 LC long chord
 LB level book
 MC meander corner
 Mer meridian
 M mid ordinate of curve
 NGS National Geodetic Survey
 NS near side
 Obsn observation
 Off Loc office location
 OP Cap orange plastic cap
 PK Parker-Kalon nail
 P Cap plastic cap
 PP Cap pink plastic cap
 PCC point of compound curve
 PC point of curve
 PI point of intersection
 PRC point of reverse curvature
 PT point of tangent
 POC point on curve
 POT point on tangent
 RTP random traverse point
 Rge range
 RP Cap red plastic cap
 SC spiral to curve
 SC standard corner
 ST spiral to tangent
 Sta station
 SE superelevation
 Tan tangent
 T tangent (semi)
 TS tangent to spiral
 Twp township
 TB transit book
 TP traverse point
 TP turning point
 USC&G US Coast & Geodetic Survey
 USGS US Geologic Survey
 VC vertical curve
 WC witness corner
 WGS World Geodetic System
 YP Cap yellow plastic cap
 Z zenith

SOIL TYPES

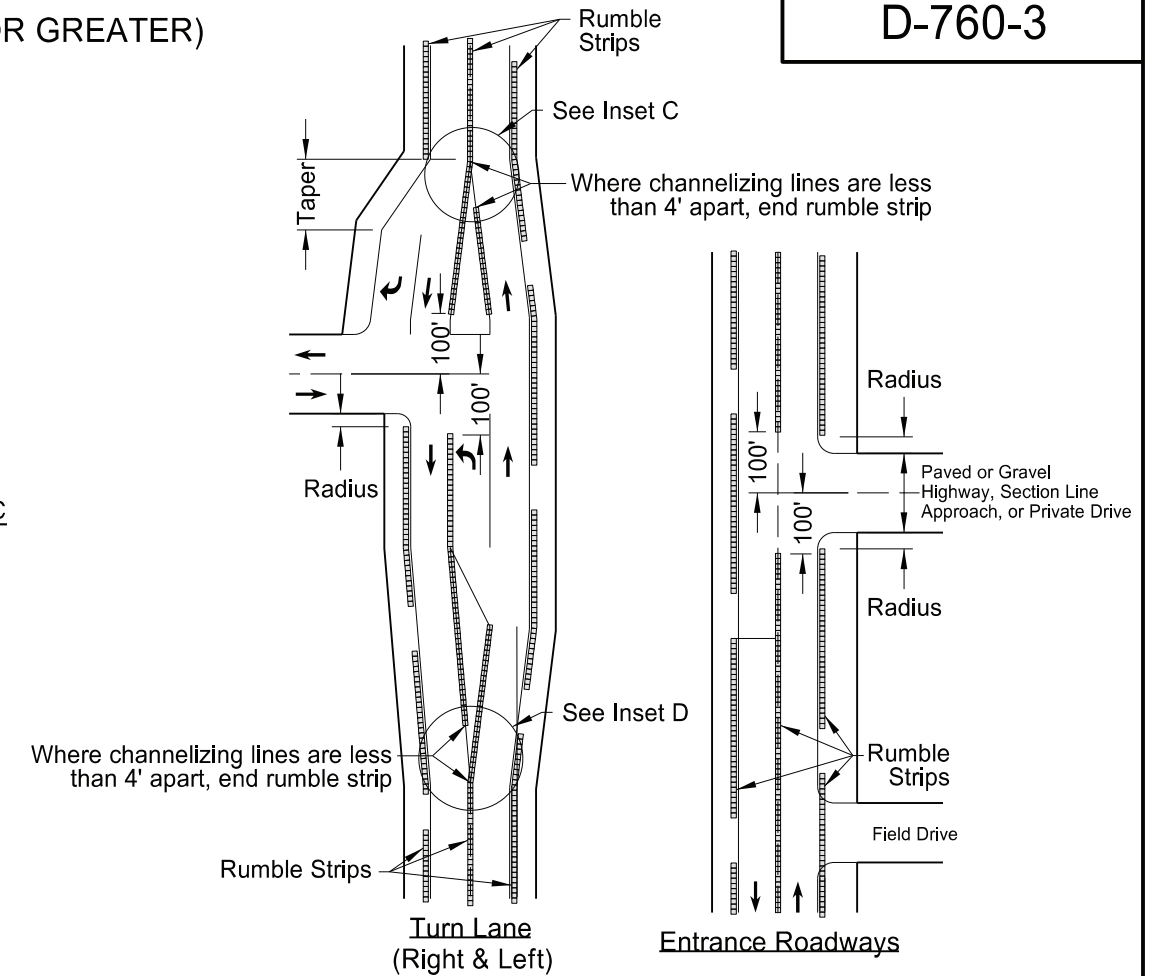
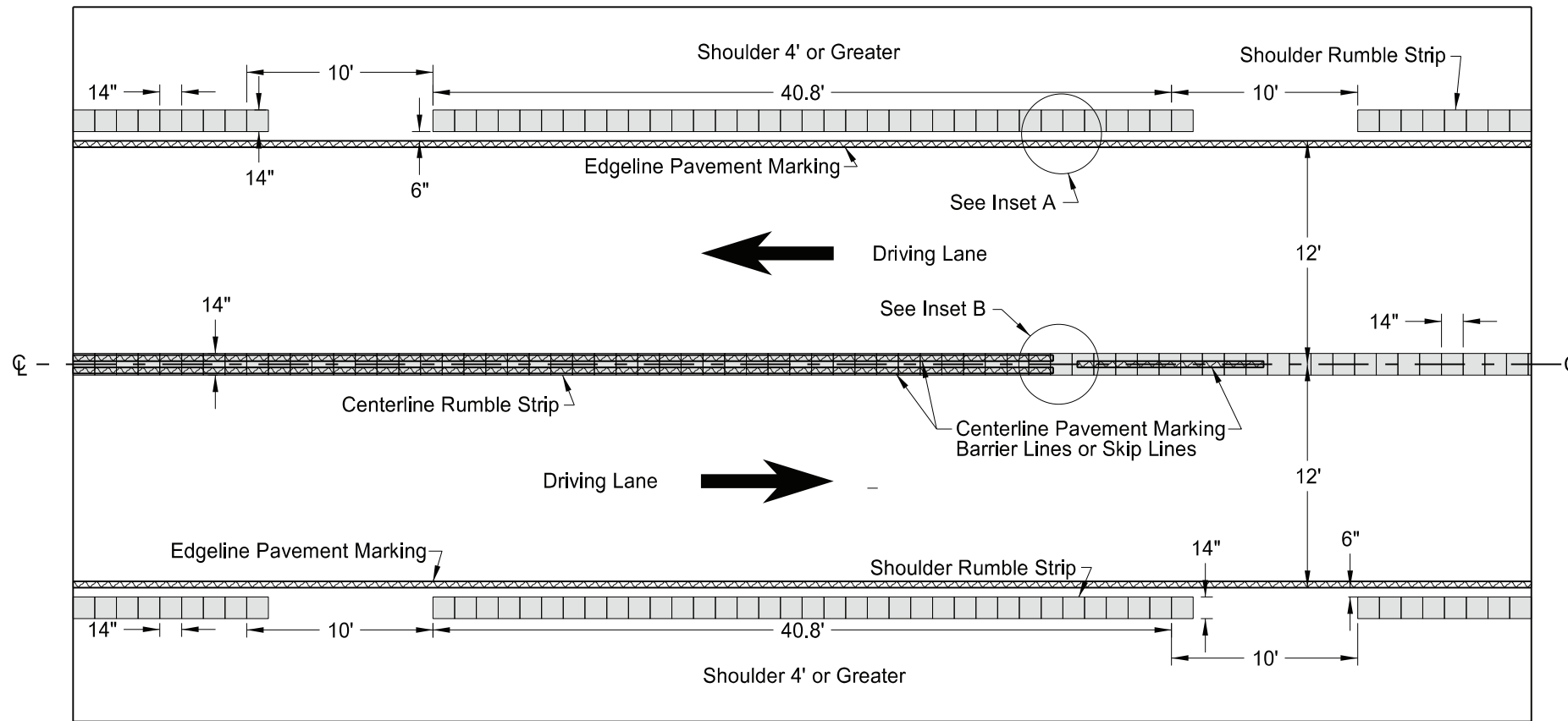
Cl clay
 Cl F clay fill
 Cl Hvy clay heavy
 Cl Lm clay loam
 Co S coal slack
 C Gr coarse gravel
 CS coarse sand
 FS fine sand
 Gr gravel
 Lig Co lignite coal
 Lig Sl lignite slack
 Lm loam
 Rk rock
 Sd sand
 Sdy Cl sandy clay
 Sdy Cl Lm sandy clay loam
 Sdy Fl sandy fill
 Sdy Lm sandy loam
 Sc scoria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

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION	
07-01-14	
REVISIONS	
DATE	CHANGE
12-18-20	Sheet Added
4-14-25	- Continued from D-101-3 General Revisions

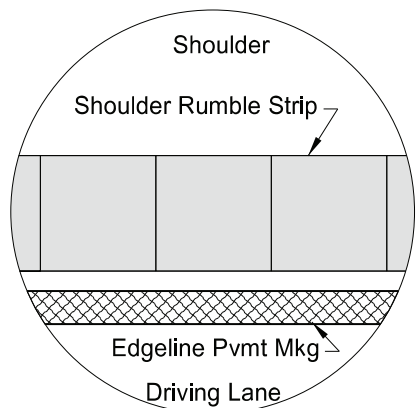


RUMBLE STRIPS UNDIVIDED HIGHWAYS (SHOULDERS 4' OR GREATER)

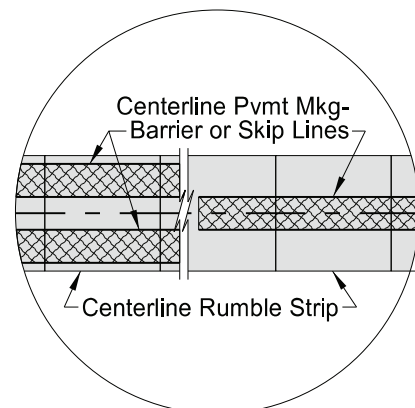
D-760-3



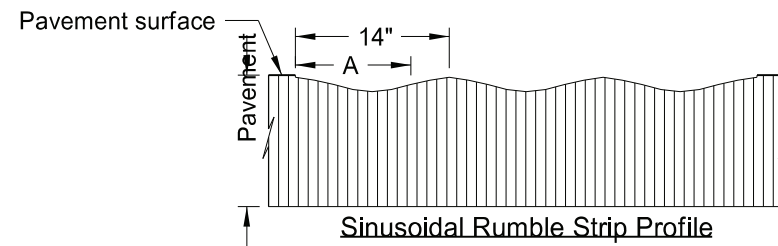
Undivided Highways (Shoulders 4' or Greater)



Inset A - Shoulder Rumble Strip (Layout for opposite shoulder reversed)



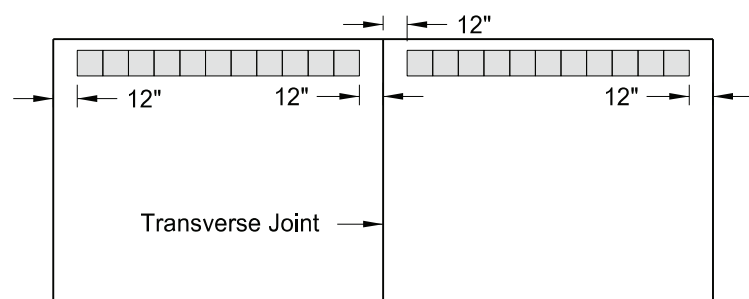
Inset B - Centerline Rumble Strip



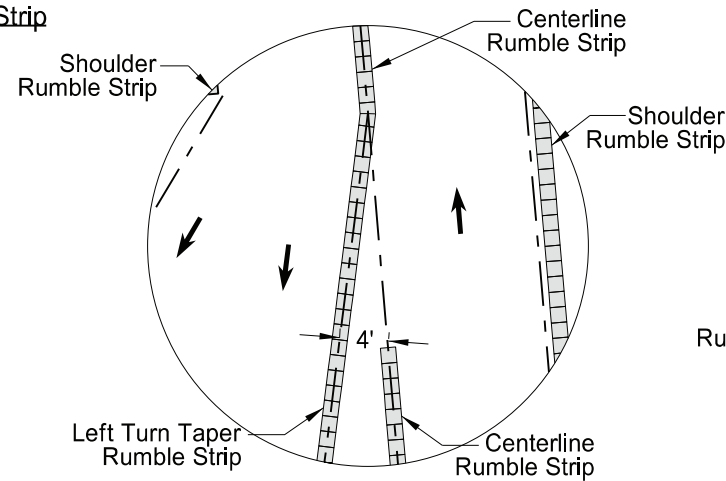
Milling Depths		
Location A (in)	MIL	Depth in
0	62.5	1/16
1 3/4	156	5/32
3 1/2	281	9/32
5 1/4	438	7/16
7	500	1/2
8 3/4	438	7/16
10 1/2	281	9/32
12 1/4	156	5/32
14	62.5	1/16

NOTES:

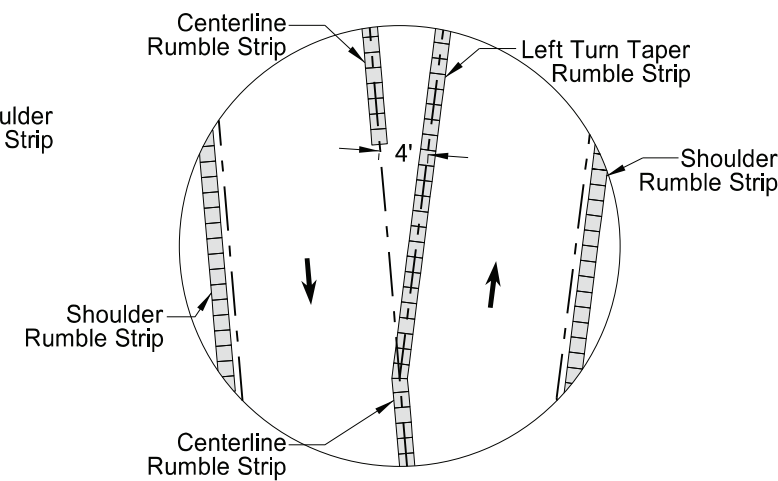
- 1) Discontinue shoulder rumble strips through the entire length of right turn lanes and tapers, and at the radius of paved or gravel highways, section line approaches, or private drives.
- 2) Discontinue centerline rumble strips 100' before and after paved or gravel highways, section line approaches, or private drives. Place rumble strips at left turn lanes as shown below.
- 3) No additional quantity provided for centerline rumble strips on left turn tapers. Include all costs for centerline rumble strips on left turn tapers in the price bid for "Sinusoidal Rumble Strip - Asphalt Centerline" or "Sinusoidal Rumble Strip - Concrete Centerline".



Discontinue rumble strip approx. 12" on both sides of PCC transverse joint



Inset C



Inset D

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION	
12-29-09	
REVISIONS	
DATE	CHANGE
2-25-10	Note 4 was added.
4-19-10	Revised Note 5, Note 6, and Turn Lane (Right & Left).
9-08-11	Revised Notes and D-760-3.
10-25-19	Added missing dimensions.
11-16-21	Changed turn lane rumble layouts.
3-07-23	Added Note 3.
5-26-23	Made rumble strips sinusoidal.



05/26/23