

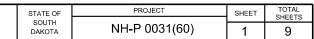
STATE OF SOUTH DAKOTA DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED

PROJECT NH-P 0031(60) US HIGHWAY 212 & SD HIGHWAY 1806 POTTER, FAULK, STANLEY & LYMAN COUNTIES

ROUT & SEAL PCN 09KP

33



Plotting Date: 02/14/2025

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Standard Plates Sheet No. 8-9:



END Segment 1 STA. 1004+00 -TO JCT.SD 45

159 ST

160 ST

162 ST

13 163 ST \supset

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US 212 DESIGN DESIGNATION 704 930 120 50 12.4 27.2 65 ADT (2024) ADT (2044) T ADT

STORM WATER PERMIT None Required

US HIGHWAY 212 LENGTH 48,692 FEET **EXCEPTIONS** O FEET 48,692 FEET

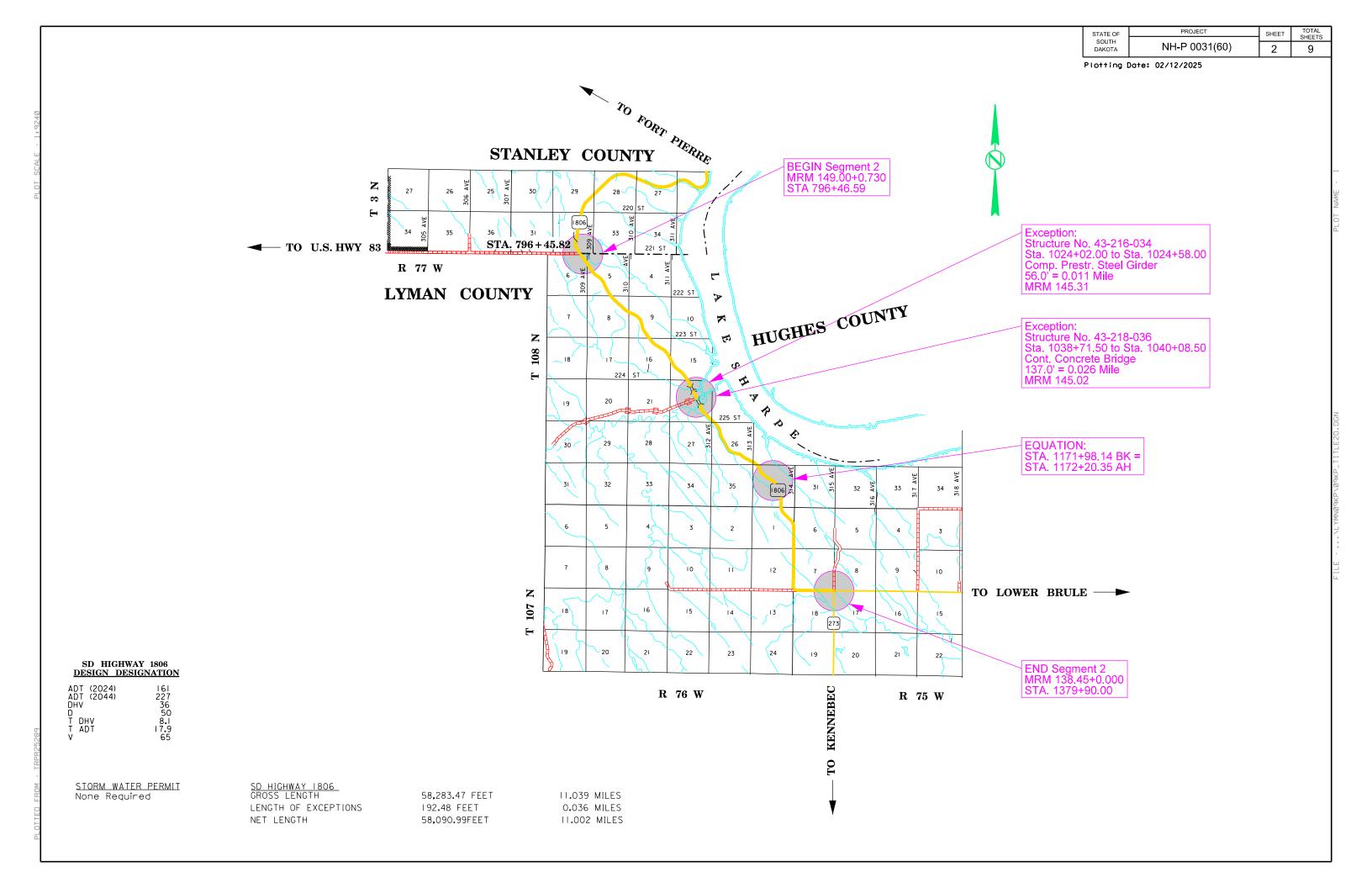
NET

BEGIN Segment 1 MRM 235.00+0.816

STA 515+00

9.222 MILES O MILES 9.222 MILES LEBANON

April 16, 2025



STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	NH-P 0031(60)	3	9

ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
350E0010	Asphalt Concrete Crack Sealing	11,212	Lb
634E0010	Flagging	344.0	Hour
634E0020	Pilot Car	100.0	Hour
634E0110	Traffic Control Signs	454.3	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS

SPECIFICATIONS

Standard Specifications for Roads and Bridges, 2015 Edition and Required Provisions, Supplemental Specifications, and Special Provisions as included in the Proposal.

ENVIRONMENTAL COMMITMENTS

The SDDOT is committed to protecting the environment and uses Environmental Commitments as a communication tool for the Engineer and Contractor to ensure that attention is given to avoid, minimize, and/or mitigate an environmental impact. Environmental commitments to various agencies and the public have been made to secure approval of this project. An agency with permitting authority can delay a project if identified environmental impacts have not been adequately addressed. Unless otherwise designated, the Contractor's primary contact regarding matters associated with these commitments will be the Project Engineer. During construction, the Project Engineer will verify that the Contractor has met Environmental Commitment requirements. These environmental commitments are not subject to change without prior written approval from the SDDOT Environmental Office.

Additional guidance on SDDOT's Environmental Commitments can be accessed through the Environmental Procedures Manual found at: https://dot.sd.gov/media/documents/EnvironmentalProceduresManual.pdf>

For questions regarding change orders in the field that may have an effect on an Environmental Commitment, the Project Engineer will contact the Environmental Engineer at 605-773-3180 or 605-773-4336 to determine whether an environmental analysis and/or resource agency coordination is necessary.

Once construction is complete, the Project Engineer will review all environmental commitments for the project and document their completion.

COMMITMENT B: FEDERALLY THREATENED, ENDANGERED, AND PROTECTED SPECIES

COMMITMENT B2: WHOOPING CRANE

The Whooping Crane is a spring and fall migratory bird in South Dakota that is about 5 feet tall and typically stops on wetlands, rivers, and agricultural lands along their migration route. An adult Whooping Crane is white with a red crown and a long, dark, pointed bill. Immature Whooping Cranes are cinnamon brown. While in flight, their long necks are kept straight and their long dark legs trail behind. Adult Whooping Cranes' black wing tips are visible during flight.

Action Taken/Required:

Harassment or other measures to cause the Whooping Crane to leave the site is a violation of the Endangered Species Act. If a Whooping Crane is sighted roosting in the vicinity of the project, borrow pits, or staging areas associated with the project, cease construction activities in the affected area until the Whooping Crane departs and immediately contact the Project Engineer. The Project Engineer will contact the Environmental Office so that the sighting can be reported to USFWS.

COMMITMENT H: WASTE DISPOSAL SITE

The Contractor will furnish a site(s) for the disposal of construction and/or demolition debris generated by this project.

Action Taken/Required:

Construction and/or demolition debris may not be disposed of within the Public ROW.

The waste disposal site(s) will be managed and reclaimed in accordance with the following from the General Permit for Construction/Demolition Debris Disposal Under the South Dakota Waste Management Program issued by the Department of Agriculture and Natural Resources.

The waste disposal site(s) will not be located in a wetland, within 200 feet of surface water, or in an area that adversely affects wildlife, recreation, aesthetic value of an area, or any threatened or endangered species, as approved by the Environmental Office and the Project Engineer.

If the waste disposal site(s) is located such that it is within view of any ROW, the following additional requirements will apply:

- 1. Construction and/or demolition debris consisting of concrete, asphalt concrete, or other similar materials will be buried in a trench separate from wood debris. The final cover over the construction and/or demolition debris will consist of a minimum of 1 foot of soil capable of supporting vegetation. Waste disposal sites provided outside of the Public ROW will be seeded in accordance with Natural Resources Conservation Service recommendations. The seeding recommendations may be obtained through the appropriate County NRCS Office. The Contractor will control the access to waste disposal sites not within the Public ROW with fences, gates, and placement of a sign or signs at the entrance to the site stating, "No Dumping Allowed".
- 2. Concrete and asphalt concrete debris may be stockpiled within view of the ROW for a period not to exceed the duration of the project. Prior to project completion, the waste will be removed from view of the ROW or buried, and the waste disposal site reclaimed as noted above.

The above requirements will not apply to waste disposal sites that are covered by an individual solid waste permit as specified in SDCL 34A-6-58, SDCL 34A-6-1.13, and ARSD 74:27:10:06.

Failure to comply with the requirements stated above may result in civil penalties in accordance with South Dakota Solid Waste Law, SDCL 34A-6-1.31.

All costs associated with furnishing waste disposal site(s), disposing of waste, maintaining control of access (fence, gates, and signs), and

reclamation of the waste disposal site(s) will be incidental to the various contract items.

COMMITMENT I: HISTORIC PRESERVATION OFFICE CLEARANCES

The SDDOT has obtained concurrence with the State Historic Preservation Office (SHPO or THPO) for all work included within the project limits and all department designated sources and designated option material sources, stockpile sites, storage areas, and waste sites provided within the plans.

Action Taken/Required:

All earth disturbing activities not designated within the plans require a cultural resource review prior to scheduling the pre-construction meeting. This work includes but is not limited to: Contractor furnished material

sources, material processing sites, stockpile sites, storage areas, plant sites, and waste areas.

The Contractor will arrange and pay for a record search and when necessary, a cultural resource survey. The Contractor has the option to contact the state Archaeological Research Center (ARC) at 605-394-1936 or another qualified archaeologist, to obtain either a records search or a cultural resources survey. A record search might be sufficient for review if the site was previously surveyed; however, a cultural resources survey may need to be conducted by a qualified archaeologist.

The Contractor will provide ARC with the following: a topographical map or aerial view in which the site is clearly outlined, site dimensions, project number, and PCN. If applicable, provide evidence that the site has been previously disturbed by farming, mining, or construction activities with a landowner statement that artifacts have not been found on the site.

The Contractor will submit the cultural resources survey report to SDDOT Environmental Office, 700 East Broadway Avenue, Pierre, SD 57501-2586. SDDOT will submit the information to the appropriate SHPO/THPO. Allow **30 Days** from the date this information is submitted to the Environmental Engineer for SHPO/THPO review.

In the event of an inadvertent discovery of human remains, funerary objects, or if evidence of cultural resources is identified during project construction activities, then such activities within 100 feet of the inadvertent discovery will immediately cease and the Project Engineer will be immediately notified. The Project Engineer will contact the SDDOT Environmental Office, who will contact the appropriate SHPO/THPO within 48 hours of the discovery to determine an appropriate course of action.

SHPO/THPO review does not relieve the Contractor of the responsibility for obtaining any additional permits and clearances for Contractor furnished material sources, material processing sites, stockpile sites, storage areas, plant sites, and waste areas that affect wetlands, threatened and endangered species, or waterways. The Contractor will not utilize a site known or suspected of having contaminated soil or water. The Contractor will provide the required permits and clearances to the Project Engineer at the preconstruction meeting.

SEQUENCE OF OPERATIONS

The Contractor will submit a sequence of operations for approval two weeks prior to the preconstruction meeting. If changes to the sequence of operations are proposed during the project, these must be submitted for review a minimum of one week prior to potential implementation. Approval for changes to the sequence of operations will only be allowed when the proposed changes meet with the Department's intent for traffic control and sequencing of the work.

GENERAL TRAFFIC CONTROL

Existing guide, route, informational logo, regulatory, and warning signs will be temporarily reset and maintained during construction. Removing, relocating, covering, salvaging, and resetting of existing traffic control devices, including delineation, will be the responsibility of the Contractor. Cost for this work will be incidental to the contract unit prices for the various items unless otherwise specified in the plans. Any delineators and signs damaged or lost will be replaced by the Contractor at no cost to the State.

All temporary traffic control sign locations will be set in the field by the Contractor and verified by the Engineer prior to installation.

All construction operations will be conducted in the general direction of traffic movement.

If there is a discrepancy between the traffic control plans, standard plates, and the MUTCD, whichever is more stringent will be used, as determined by the Engineer.

Unless otherwise stated in these plans, work will not be allowed during hours of darkness.

Fixed location signing placed more than 4 calendar days prior to the start of construction will be covered or laid down until the time of construction. The covers must be approved by the Engineer prior to installation. The cost of materials, labor, and equipment necessary to complete this work will be incidental to other contract items. No separate payment will be made.

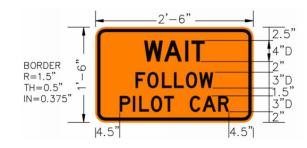
All fixed location signs, sign posts, and breakaway bases will be removed within 7 calendar days following pavement marking.

Traffic will be maintained on the driving lanes. Use of the shoulder as a driving lane will not be permitted. Any damage to the shoulder due to rerouted traffic or Contractor's equipment will be repaired at no expense to the Department.

FLAGGING

Operations will be conducted so that the traveling public will not have to wait longer than 15 minutes at the flagger station.

Additional flagger warning signs and flagger hours have been included in the Estimate of Quantities for use on intersecting roads. These flaggers will be used as directed by the Engineer and will be used primarily during daytime hours. Also included in the Estimate of Quantities are WAIT FOLLOW PILOT CAR signs for use on low volume intersecting roads as determined by the Engineer. WAIT FOLLOW PILOT CAR signs will not block the view of the stop sign.



It is required that the flaggers and pilot car operators be able to communicate with one another. If an emergency vehicle needs to pass through the project, the Contractor will be required to expedite traffic movement. All costs associated with this will be incidental to the contract unit price per hour for "Flagging".

ITEMIZED LIST FOR TRAFFIC CONTROL SIGNS

Segment1 – US 212:

			CONVENTIO	DNAL ROAD	
SIGN CODE	SIGN DESCRIPTION	NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
W16-2P	1000 FEET (supplemental distance plaque)	2	30" x 24"	5.0	10.0
W20-1	ROAD WORK AHEAD	11	48" x 48"	16.0	176.0
W20-4	ONE LANE ROAD AHEAD	2	48" x 48"	16.0	32.0
W20-7	FLAGGER (symbol)	2	48" x 48"	16.0	32.0
SPECIAL	WAIT FOLLOW PILOT CAR	8	30" x 18"	3.8	30.4
G20-1	ROAD WORK NEXT 9 MILES	2	36" x 18"	4.5	9.0
G20-2	END ROAD WORK	2	36" x 18"	4.5	9.0
			IVENTIONAL CONTROL SI		298.4

Segment2 - SD 1806:

			CONVENTIO	DNAL ROAD	
SIGN CODE	SIGN DESCRIPTION	NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
W16-2P	1000 FEET (supplemental distance plaque)	2	30" x 24"	5.0	10.0
W20-1	ROAD WORK AHEAD	3	48" x 48"	16.0	48.0
W20-4	ONE LANE ROAD AHEAD	2	48" x 48"	16.0	32.0
W20-7	FLAGGER (symbol)	2	48" x 48"	16.0	32.0
SPECIAL	WAIT FOLLOW PILOT CAR	3	30" x 18"	3.8	11.4
G20-1	ROAD WORK NEXT 11 MILES	3	36" x 18"	4.5	13.5
G20-2	END ROAD WORK	2	36" x 18"	4.5	9.0
			IVENTIONAL CONTROL SI		155.9

BLOCKING MEDIUM MATERIAL

All costs for furnishing and placing the blocking material medium will be incidental to the contract unit price per pound for Asphalt Concrete Crack Sealing.

BLOTTING MATERIAL

Blotting material will be placed over the sealant material immediately following placement of sealant on all cracks.

ESTIMATED CRACK SEALING

All work will meet the construction requirements detailed in Section 350. The actual quantity used in the field will be the basis for Contractor payment, with no adjustment in contract unit price allowed.

All work will be performed in accordance with the "Typical Reservoir Section" as detailed on the Typical Reservoir Section sheet.

STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	NH-P 0031(60)	4	9

Revised 3-4-25 SML

Longitudinal centerline and longitudinal lane cracks will be routed so that there is **no** over band present at the crack surface.

Transverse cracks will be routed so that there is a *minimal* amount of over band present at the crack surface.

US212 consists of a Class Q3 Asphalt Concrete surface. All cracks on this segment will be routed so that there is **no** over band present at the crack surface. The Contractor will coordinate with the Engineer to determine if some cracks are small enough to not require a rout & seal.

No routing will occur when within 1 foot of the top of the asphalt sluff.

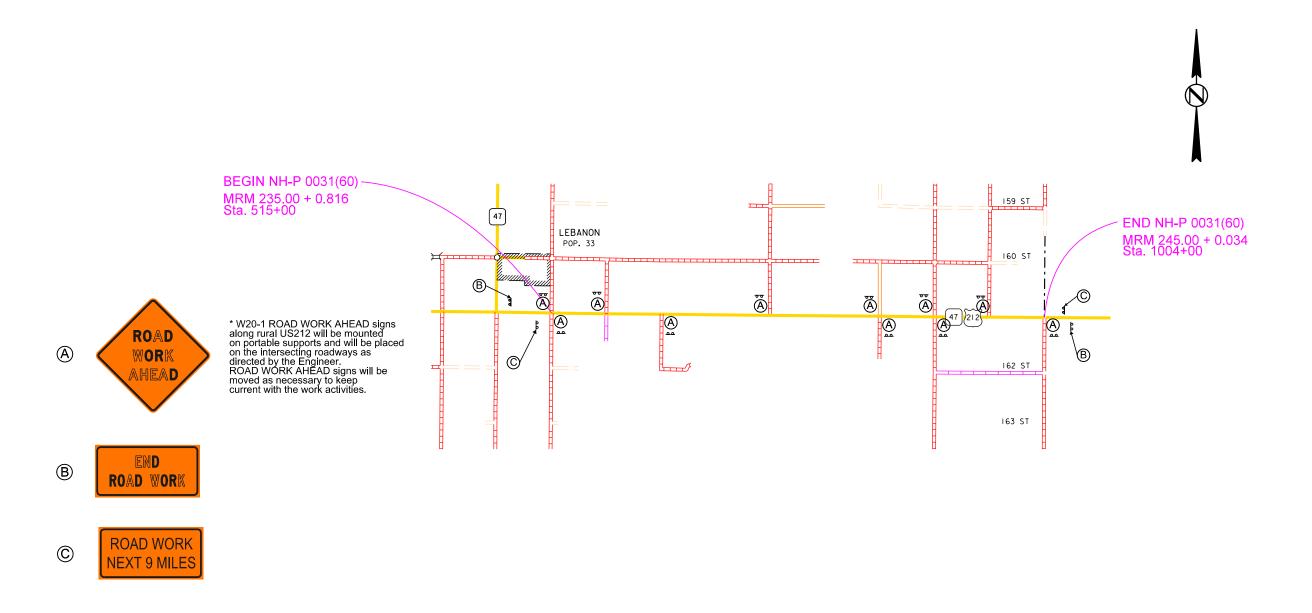
ROUTE	MRM TO MRM	APPROX. FEET TO BE ROUTED	APPROX. CRACK SEALANT (LBS)
US212	235.00 + 0.816 to		
(Segment 1)	245.00 + 0.034	19,743	8,094
SD1806			
(Segment 2)	138.45 to 149.73	7,605	3,118
	TOTALS:	27,348	11,212

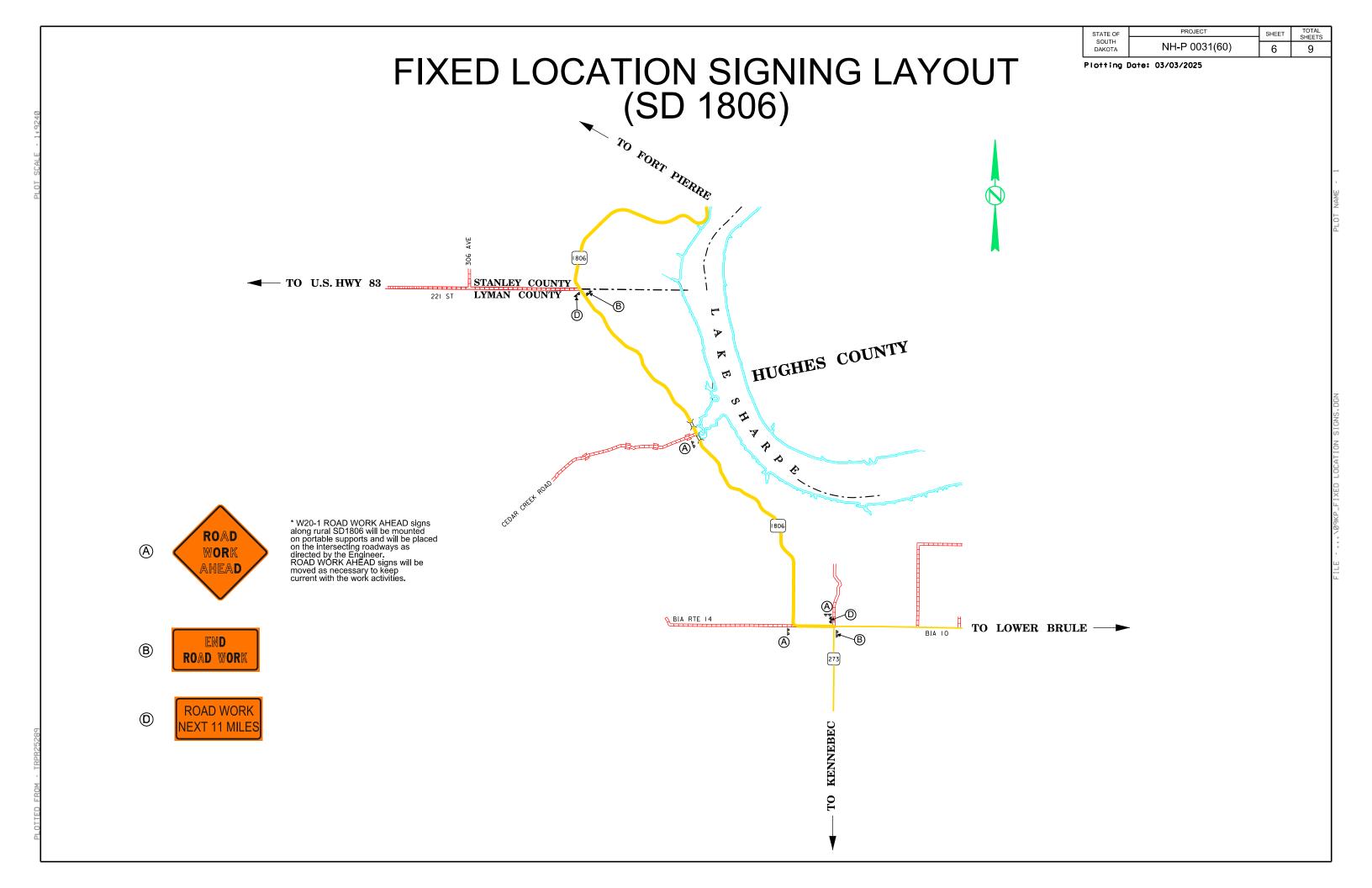
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Plotting Date: 03/03/2025

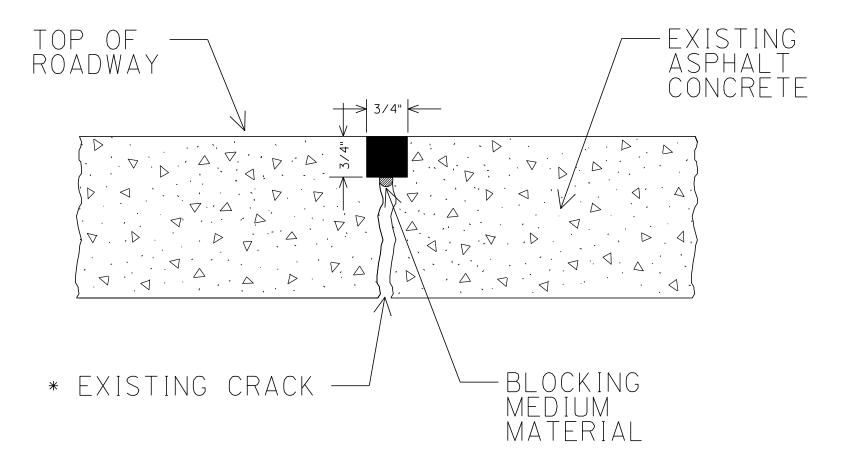
FIXED LOCATION SIGNING LAYOUT (US 212)





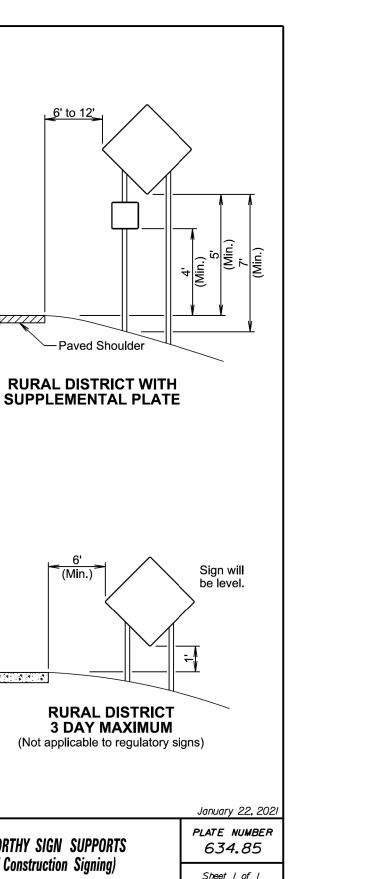
otting Date:

TYPICAL RESERVOIR SECTION



* The blocking medium material will be used in cracks that are 3/8" or more in width.

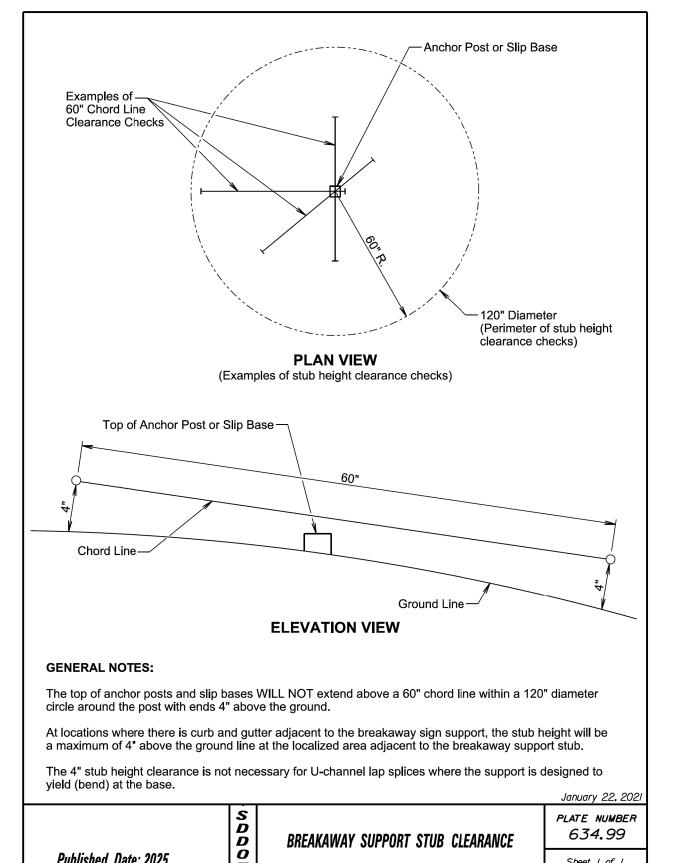
							STATE OF SOUTH		PROJECT
							DAKOTA	NH-	P 0031(60)
						ı	Plotting Date:	10/03/2	2024
Posted Speed	Spacing of Advance Warning	Spacing of		Warning s	sian se	eauence :			
Prior to	Signs	Devices		in opposit	e dire		ie	//.	
Work (M.P.H.)	(Feet) (A)	(Feet) (G)		as below.					////
0 - 30	200	25					•//		
35 - 40	350	25					/ 🗡		
<u>45</u> 50	500 500	25 50							//%
55	750	50					N.		
60 - 65	1000	50			/	//		•••	Post
•	Flagger							\angle	Routing States
•	Channelizing Dev	vice			//	1	ACE!	\times .	9
with sho roadway to road u direction The RO WORK s	volume traffic situa ort work zones on st ors where the flagge users approaching ors, a single flagger AD WORK AHEAD signs may be omitte	traight r is visible from both may be used. and the END R ed for short	OAD /			notest s			tes Testes
For tack when fla FRESH in advar Flashing may be	operations (1 hour and/or flush seal of aggers are not being OIL sign (W21-2) whice of the liquid asp g warning lights and used to call attention warning signs.	operations, g used, the will be displayed bhalt areas. d/or flags		500,		100' Sparies	One Lane Two-way Traffic Taper	Ì	wa'
The cha or 42" co	nnelizing devices v ones.	vill be drums				A		XXX FEET W16-2P (Optiona	
along th area wh	lizing devices are n e centerline adjace en pilot cars are uti g traffic through the 2-079 MOBK END	ent to work ilized for e work				X X		ONE LANI ROAD AHEAD	E L
be used	lizing devices and f at intersecting road ntersecting road tra	ds to	7			₹	<	ROAD WORK AHEAD	
so that t placed b curve to distance	fer space should be the two-way traffic to pefore a horizontal of provide adequate so for the flagger and ed vehicles.	aper is or vertical sight						\\ \sqrt{u}	
	gth of A may be adj conditions.	usted to		1 1				_	January 22, 202
		S D D	LAI	NE CLOSURE	E WITI	H FLAGG	ER PROVID	ED	PLATE NUMBER 634.23
D.,	blished Date: 2025	0	I						Sheet I of I



PROJECT STATE OF SHEET TOTAL SHEETS NH-P 0031(60) 9 9 DAKOTA

Plotting Date:

10/03/2024



BREAKAWAY SUPPORT STUB CLEARANCE

634.99

Sheet I of I

6' to 12'

RURAL DISTRICT

URBAN DISTRICT

S D D O T

★ If the bottom of supplemental plate is

mounted lower than 7 feet above a

into the pedestrian facility.

Published Date: 2025

pedestrian walkway, the supplemental plate should not project more than 4"

5' (Min.) 7' (Min.)

CRASHWORTHY SIGN SUPPORTS (Typical Construction Signing)

4 4 4 4

-Walkway

6' to 12'

Paved Shoulder

(Min.)

3 DAY MAXIMUM

Sheet I of I

Published Date: 2025