



Non

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ESTIMATE OF QUANTITIES

PCN i7VG

BID ITEM	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
100E0020	Clear and Grub Tree	46	Each
110E7150	Remove Sign for Reset	1	Each
110E7152	Remove Delineator for Reset	2	Each
120E0010	Unclassified Excavation	241	CuYd
632E2100	Reset Delineator	2	Each
632E3500	Reset Sign	1	Each
634E0010	Flagging	40.0	Hour
634E0110	Traffic Control Signs	137.0	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0420	Type C Advance Warning Arrow Board	1	Each
734E0010	Erosion Control	Lump Sum	LS

PCN i7WF

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
110E7152	Remove Delineator for Reset	1	Each
120E0010	Unclassified Excavation	135	CuYd
230E0100	Remove and Replace Topsoil	Lump Sum	LS
632E2100	Reset Delineator	1	Each
634E0010	Flagging	20.0	Hour
634E0110	Traffic Control Signs	68.5	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0420	Type C Advance Warning Arrow Board	1	Each
700E0310	Class C Riprap	110.0	Ton
734E0010	Erosion Control	Lump Sum	LS
734E0102	Type 2 Erosion Control Blanket	13	SqYd
734E0104	Type 4 Erosion Control Blanket	133	SqYd
831E0110	Type B Drainage Fabric	140	SqYd

SPECIFICATIONS

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

UTILITIES

The Contractor will contact the involved utility companies through South Dakota One Call (1-800-781-7474) prior to starting work. It will be the responsibility of the Contractor to coordinate work with the utility owners to avoid damage to existing facilities.

If utilities are identified near the improvement area through the SD One Call Process as required by South Dakota Codified Law 49-7A and Administrative Rule Article 20:25, the Contractor will contact the Engineer to determine modifications that will be necessary to avoid utility impacts.

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

COMMIMENT 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 B4: BALD EAGLE

Action Taken/Required:

If a nest is observed within one mile of the project site, notify the Project Engineer immediately so that he/she can consult with the Environmental Office for an appropriate course of action.

COMMITMENT B5: NORTHERN LONG-EARED BAT

habitat.

Action Taken/Required:

Project activities that include tree removal, structure work, and/or work within one-quarter mile of a known hibernacula or 150 feet of a known maternity roost tree, or suitable habitat should not occur within the location(s) listed below during the NLEB seasonal work restriction timeframe without approval from the SDDOT Environmental Office.

Station	NLEB Seasonal Work Restriction
MRM 37 to MRM 39 (L/R)	April 1 to October 31

required:

Tree removal will occur between November 1st and March 31st.

COMMITMENT E: STORM WATER

Action Taken/Required:

At a minimum and regardless of project size, appropriate erosion and sediment control measures must be installed to control the discharge of pollutants from the construction site.

SD 💋	PROJECT	SECTION	SHEET
DOT	000N-451 & 014A-451	Non	2/14

Bald eagles are known to occur in this area.

This project is within the range of suitable habitat for the Northern Long-Eared Bat (NLEB) and project work will avoid conflicts with NLEB roosting

The following avoidance, minimization, and mitigation measures are

Construction activities constitute less than 1 acre of disturbance.

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:

Unless noted in these plans, 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:

Construction and/or demolition debris consisting of concrete, asphalt 1. 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.

COMMITMENT S: FIRE PREVENTION IN THE BLACK HILLS AREA

This project is located within the Black Hills Forest Fire Protection Boundary.

Action Taken/Required:

The Contractor will adhere to the "Special Provision for Fire Plan".

SDDOT ROW CORNERS

The SDDOT right-of-way is marked with a rebar with aluminum cap and a brown Carsonite post at key points. Contractor will take care to not disturb these right-of-way points during the project. Any corners and/or Carsonite disturbed by the contractor will be replaced.

SCOPE OF WORK

PCN i7VG

Remove designated trees.

A triangular wedge of eroded material will then be removed back to the inplace bedrock backslope as shown in the Typical Section for this project. Removal of this material will be paid for at the contract unit price per CuYd for Unclassified Excavation.

Erosion Control will be used to retore disturbed areas caused by tree removal. Erosion Control will not be required for the Unclassified Excavation.

PCN i7WF

Where material has slumped into the ditch, the ditch will be restored to the satisfaction of the engineer. This work will be paid for at the contract unit price per CuYd of Unclassified Excavation.

Type B Drainage Fabric and Class C Riprap will be installed on the slope and in the erosional channel as shown on the plan and typical section sheets for this project. The remaining erosional scarp above the riprap will be filled with Unclassified Excavation.

Topsoil will be placed over the disturbed area and seeded and fertilized. Type 4 Erosion Control Blanket will be placed over the freshly seeded area.

Topsoil will be placed over the erosional area adjacent to the shoulder. This area will be seeded and fertilized and then Type 2 Erosion Blanket will be placed over the freshly seeded area.

Payment for seeding and fertilizing will be paid for at the price per Lump Sum for Erosion Control.

SD 💋	PROJECT	SECTION	SHEET
DOT	000N-451 & 014A-451	Non	3/14

Any topsoil will be bladed to the edges of the construction area.

CLEAR AND GRUB TREE

The hazard trees to clear on this project are described as dead or dying that are immediate hazards to the highway. These hazard trees will be cut and placed on the ground. Additional cutting might be needed to ensure the tree is placed properly on the ground.

If the Contractor plans to convert the trees to a saleable product and remove from Forest Service land, then the Contractor will notify the Forest Service to obtain the necessary permits.

Limbs removed from trees will be placed outside the clear-zone. The clearzone width is 10' measured from the travel lane for posted speeds 40 mph or less highways. The clear-zone width is 30' measured from the travel lane for posted speeds greater than 40 mph highways.

Limbs will be bucked and slashed to a height of less than 18" onsite.

Before clearing activities begin, the Contractor will contact the Project Engineer to identify what trees are to be cleared on the project.

The Contractor will avoid rutting and excessive soil disturbance during operations. If excessive rutting or soil disturbance occurs, the Contractor will stop operations and wait until the soil achieves enough strength to support equipment or change operation and complete the work with some other less soil disturbing method.

Extra care will be taken not to damage other nearby trees during the clearing process.

The Contractor will avoid wetlands, streams, and riparian areas during operations.

The Contractor is responsible for keeping the roadway clear of debris. No separate payment will be made for this work.

The Contractor will grade and level the soil to the original condition if disturbed by clearing activities. No separate payment will be made for this work.

All work descried in this section will be incidental to the contract unit price bid per each for Clear and Grub Tree.

	PROJECT	SECTION	SHEET
DOT	000N-451 & 014A-451	Non	4/14

					Table of Clear an	d Grub Tree - PCN i7VG	
							Cle Gru
Highway	MRM	Disp	Side			Additional Comments	(1
014A	37.45	+0.024	EB	Tree Removal	> 9 in diameter, dead/dying	Large tree on slope could fall on road	
014A	37.45	+0.127	WB	Tree Removal		Pine tree	
014A	37.45	+0.144	WB	Tree Removal		Pine tree	
014A	37.81	+0.010	EB	Tree Removal	> 9 in diameter, dead/dying	Aspen leaning on pine tree with chance of falling into eastbound driving lane	
014A	37.81	+0.176	EB	Tree Removal		Aspens overhanging road from edge of bank with roots exposed	
014A	38	+0.000	EB	Tree Removal	> 9 in diameter, dead/dying	Group of Aspens on edge of "cliff" with roots showing	
014A	38	+0.047	EB	Tree Removal	6 in - 9 in diameter, alive	Group of small pines extending over road	
014A	38	+0.051	EB	Tree Removal	> 9 in diameter, dead/dying	Dead tree leaning	
014A	38	+0.059	EB	Tree Removal	6 in - 9 in diameter, dead/dying	Small group of aspens dead	
014A	38	+0.075	EB	Tree Removal	> 9 in diameter, alive	Pine tree with roots exposed near cliff face	
014A	38.38	+0.011	EB	Tree Removal	> 9 in diameter, alive	Pine tree with roots exposed over cliff face	
014A	38.38	+0.064	EB	Tree Removal	6 in - 9 in diameter, dead/dying	Aspen tree hanging over roadway	
014A	38.38	+0.069	EB	Tree Removal	> 9 in diameter, dead/dying	Dead Aspen tree could fall on road	
014A	38.38	+0.077	EB	Tree Removal	6 in - 9 in diameter, dead/dying	Aspen hanging over roadway	
014A	38.38	+0.081	EB	Tree Removal	6 in - 9 in diameter, alive	Aspen growing on cliff edge extending over lane	
014A	38.38	+0.093	EB	Tree Removal	> 9 in diameter, dead/dying	Group of small dead Aspens holding dead log in place. Could fall on roadway	
014A	38.6	+0.040	EB	Tree Removal	> 9 in diameter, dead/dying	Pine tree	
						Total	1

	Table of Ditch Excavation Quantities - PCN i7VG											
					Lengtn	Width	Cross Sectional Area	Remove Sign for Reset	Reset Sign	Remove Delineator for Reset	Reset Delineator	Unclassified Excavation
MRM	Disp	to	MRM	Disp	(Ft)	(Ft)	(SqFt)	(Each)	(Each)	(Each)	(Each)	(CuYd)
37.14	+0.717		37.14	+0.727	50	8	32					59.3
37.14	+0.783		37.14	+0.854	375	5	12.5	1	1	1	1	173.6
38	+0.012		38	+0.027	50	3	4.5			1	1	8.3
							Total	1	1	2	2	241.2

Т	Table of Erosion Repair - PCN i7WF - US14A MRM 43+0.170							
					Type 2	Type 4		
Remove			Туре В		Erosion	Erosion		
Delineator	Reset	Class C	Drainage	Unclassified	Control	Control		
for Reset	Delineator	Riprap	Fabric	Excavation	Blanket	Blanket		
(Each)	(Each)	(Ton)	(SqYd)	(CuYd)	(SqYd)	(SqYd)		
1	1	110	140		13.3	133.3		

SD 🗾	PROJECT	SECTION	SHEET
DOT	000N-451 & 014A-451	Non	5/14

EROSION CONTROL

All costs for the erosion control work for furnishing, placing, and maintaining erosion control including equipment, labor, installing and removing wattles, permanent seeding, fertilizing, and fiber mulching will be incidental to the contract lump sum price for Erosion Control.

The limits of erosion control work will be for all locations disturbed during construction. These limits will be determined by the Engineer during construction.

Erosion control wattles for restraining the flow of runoff and sediment will be installed at locations to protect water resources as directed by the Project Engineer. Refer to Standard Plate 734.06 for details.

The Contractor will provide certification that the erosion control wattles do not contain noxious weed seeds.

The erosion control wattle provided will be from the following approved product list: http://apps.sd.gov/HC60ApprovedProducts/main.aspx

Type F Permanent Seed Mixture will consist of the following:

Grass Species	Variety	Pure Live Seed (PLS) (Pounds/Acre)
Western Wheatgrass	Arriba, Flintlock, Rodan, Rosana, Walsh	7
Green Needlegrass	Lodorm, AC Mallard Ecovar	4
Sideoats Grama	Butte, Pierre	3
Blue Grama	Bad River	2
Oats or Spring Wheat: April through May;		10
Winter Wheat: August through November		
	Total:	26

Mycorrhizal inoculum will consist of mycorrhizal fungi spores and mycorrhizal fungi-infected root fragments in a solid carrier. The carrier may include organic materials, calcinated clay, or other materials consistent with application and good plant growth. The supplier will provide certification of the fungal species claimed and the live propagule count. The inoculum will include the following fungal species:

- 25% Glomus intraradices
- 25% Glomus aggregatum or deserticola
- 25% Glomus mosseae
- 25% Glomus etunicatum

All seed will be inoculated by the seed supplier with a minimum of 100,000 live propagules of mycorrhizal fungi per acre. All costs of inoculating the seed will be incidental to the contract lump sum price for Erosion Control.

The mycorrhizal inoculum will be as shown below or an approved equal:

AM

Product	Manufacturer
MycoApply	Mycorrhizal Applications, Inc. Grants Pass, OR Phone: 1-866-476-7800 <u>www.mycorrhizae.com</u>
120 Multi Species Blend	Reforestation Technologies Int. Gilroy, CA Phone: 1-800-784-4769 <u>www.reforest.com</u>

The Contractor will apply an all-natural slow release fertilizer prior to seeding or placing sod. The all-natural fertilizer will have a minimum guaranteed analysis of 4-4-4 and be USDA Certified BioBased. It should provide a minimum of 4% (N) nitrogen with a minimum water insoluble nitrogen (WIN) fraction of 2.07%, a minimum of 4% (P2O5) available phosphate, a minimum of 4% (K2O) soluble potash, and a maximum carbon to nitrogen ratio (C:N ratio) of 5:1. The all-natural fertilizer will be free of weed-seed and pathogens accomplished through thermophilic composting, and not mechanical or chemical sterilization, to assure presence of beneficial soil microbiology. The fertilizer will have a near neutral pH, a low salt index, a low biological oxygen demand, contain organic humic and fulvic acids, and have high aerobic organism counts. The fertilizer will also be stable, free of bad odors, and be unattractive as a food source for animals. It should also be in a granular form that is easily spread.

The fertilizer will be applied at a rate of 1,500 pounds per acre in accordance with the manufacturer's recommended method of application.

The all-natural slow release fertilizer will be as shown below or an approved equal:

Product	Manufacturer
Sustane	Sustane Corporate Headquarters Cannon Falls, Minnesota Phone: 1-800-352-9245 <u>www.sustane.com</u>
Perfect Blend	Perfect Blend, LLC Bellevue, WA Phone: 1-866-456-8890 <u>www.perfect-blend.com</u>

Fiber mulch will be applied in a separate operation following permanent seeding.

An additional 2% by weight of tackifier will be added to the fiber mulch product selected from the approved product list. If the product selected has guar gum tackifier included, then the additional 2% of tackifier will be guar gum. If the product selected has synthetic tackifier included, then the additional 2% of tackifier will be synthetic.

The Contractor will allow the fiber mulch to cure a minimum of 18 hours prior to watering or any storm event to ensure proper cohesion between the soil and fiber particles.

All costs for the additional tackifier added to the fiber mulch including labor, equipment, and materials will be incidental to the contract lump sum price for Erosion Control.

The fiber mulch provided will be from the approved product list. The approved product list for fiber mulch may be viewed at the following internet site:

http://sddot.com/business/certification/products/Default.aspx

TRAFFIC CONTROL – GENERAL NOTES

of darkness.

All materials and equipment will be stored a minimum distance of 30' from the traveled way during nonworking hours.

All haul trucks will be equipped with a second flashing amber light that is visible from the backside of the haul truck. The costs for the flashing amber lights will be incidental to the various related contract bid items.

movement.

Standard Plate 634.47, Standard Plate 634.85, and Standard Plate 634,99 will be used for Traffic Control for PCN i7WF.

INVENTORY OF TRAFFIC CONTROL DEVICES – PCN i7VG

		CONVENTIONAL ROAD			
SIGN CODE	SIGN DESCRIPTION	NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
W1-4	REVERSE CURVE (L or R)	2	48" x 48"	16.0	32.0
W4-2	LEFT or RIGHT LANE ENDS (symbol)	1	48" x 48"	16.0	16.0
W20-1	ROAD WORK AHEAD	2	48" x 48"	16.0	32.0
W20-5	LEFT or RIGHT LANE CLOSED AHEAD	1	48" x 48"	16.0	16.0
W20-7	FLAGGER (symbol)	2	48" x 48"	16.0	32.0
G20-2	END ROAD WORK	2	36" x 18"	4.5	9.0
			VENTIONAL CONTROL SI		137.0

INVENTORY OF TRAFFIC CONTROL DEVICES – PCN i7WF

			CONVENTIO	ONAL ROAD	
SIGN CODE	SIGN DESCRIPTION	NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
W4-2	LEFT or RIGHT LANE ENDS (symbol)	1	48" x 48"	16.0	16.0
W20-1	ROAD WORK AHEAD	1	48" x 48"	16.0	16.0
W20-5	LEFT or RIGHT LANE CLOSED AHEAD	1	48" x 48"	16.0	16.0
W20-7	FLAGGER (symbol)	1	48" x 48"	16.0	16.0
G20-2	END ROAD WORK	1	36" x 18"	4.5	4.5
			VENTIONAL CONTROL SI		68.5

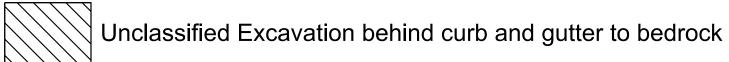
SD 🗾	PROJECT	SECTION	SHEET
DOT	000N-451 & 014A-451	Non	6/14

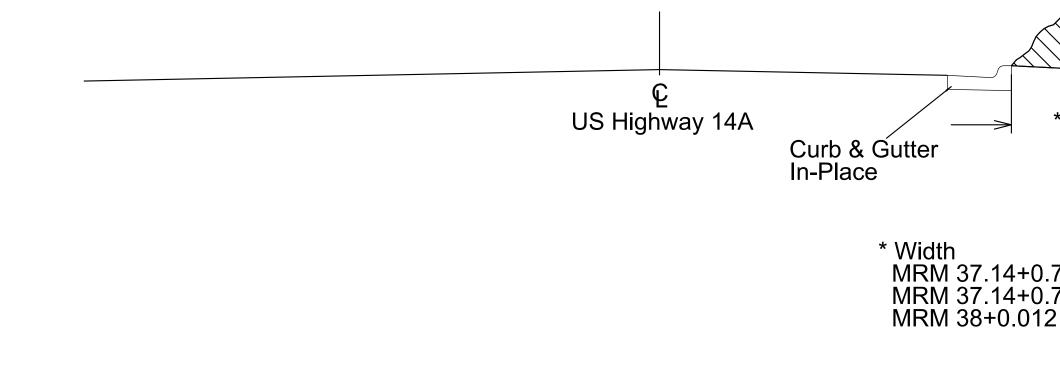
Unless otherwise stated in these plans, no work will be allowed during hours

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

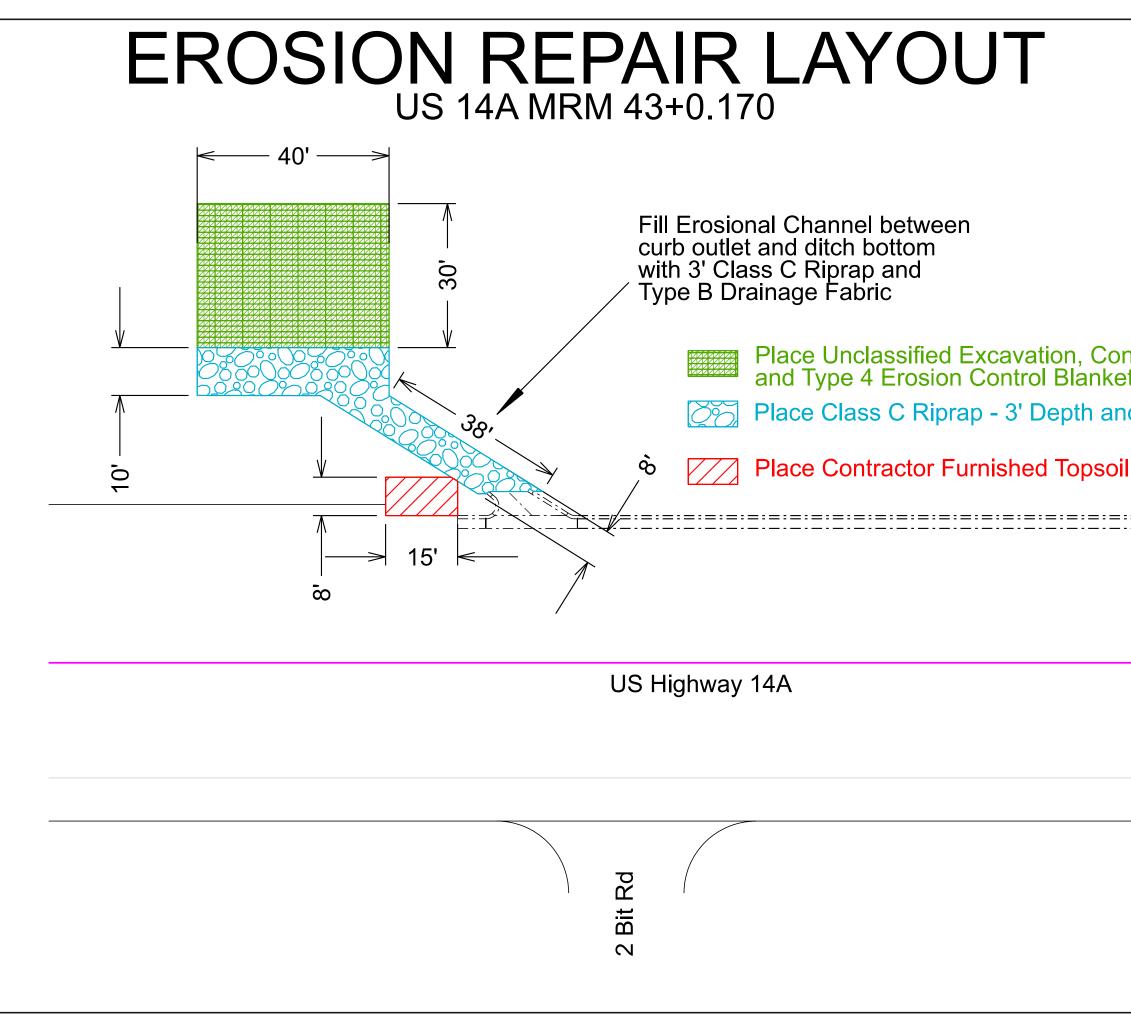
The special plate for climbing lanes, Standard Plate 634.85, and Standard Plate 634,99 will be used for Traffic Control for PCN i7VG.

UNCLASSIFIED EXCAVATION SECTIO PCN i7WE MRM 37.14+0.717 TO MRM 38+0.027

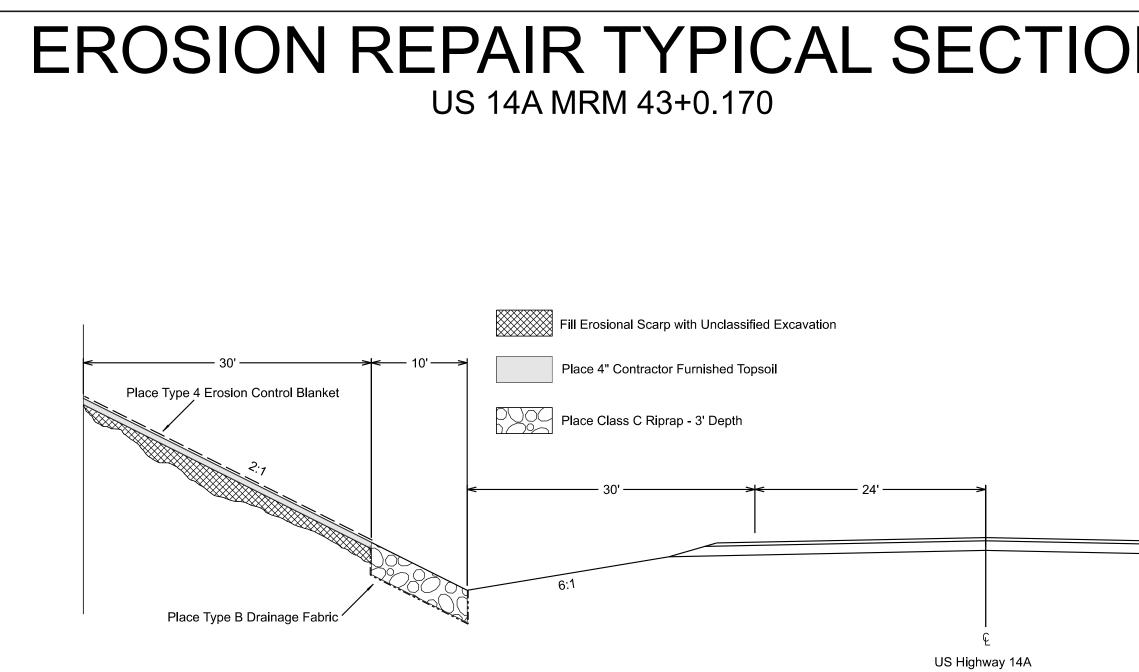




MRM 37.14+0.717 R to MRM 37.15+0.727 R - 8' MRM 37.14+0.783 R to MRM 37.14+0.854 R - 5' MRM 38+0.012 R to MRM 38+0.027 R - 3'

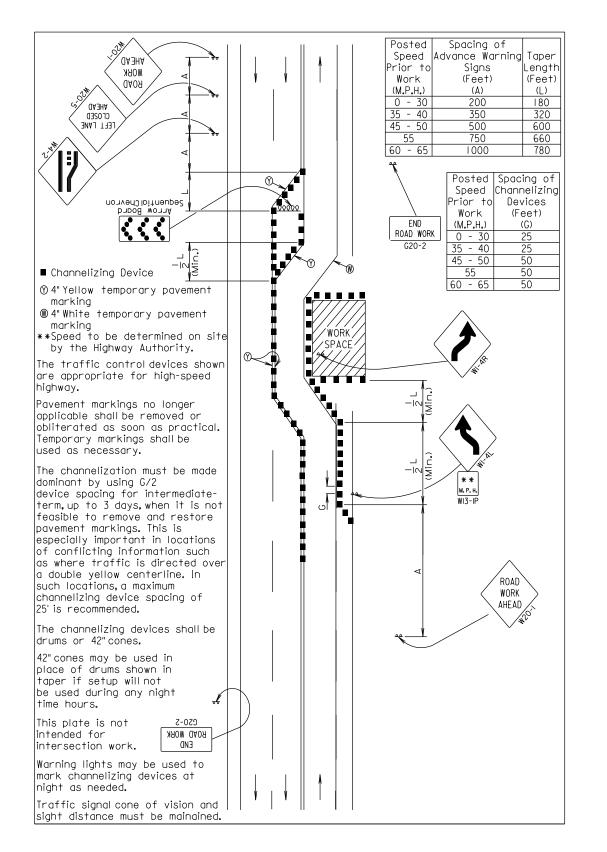


	SD	PROJECT	SECTION SHEET
	Plotting Date:	000N-451 & 014A-451	Non 8/14
	Plotting Uate:	5/1/2025	
et Id Type E I and Typ	3 Dra be 2	shed Topsoil inge Fabric Erosion Contro	
			یں

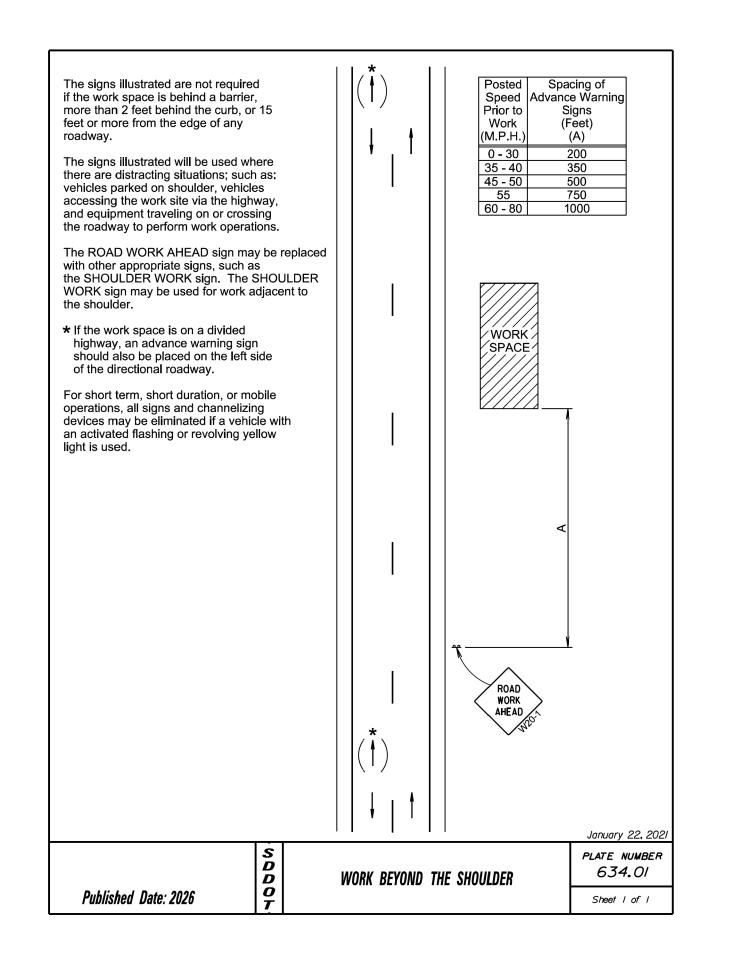


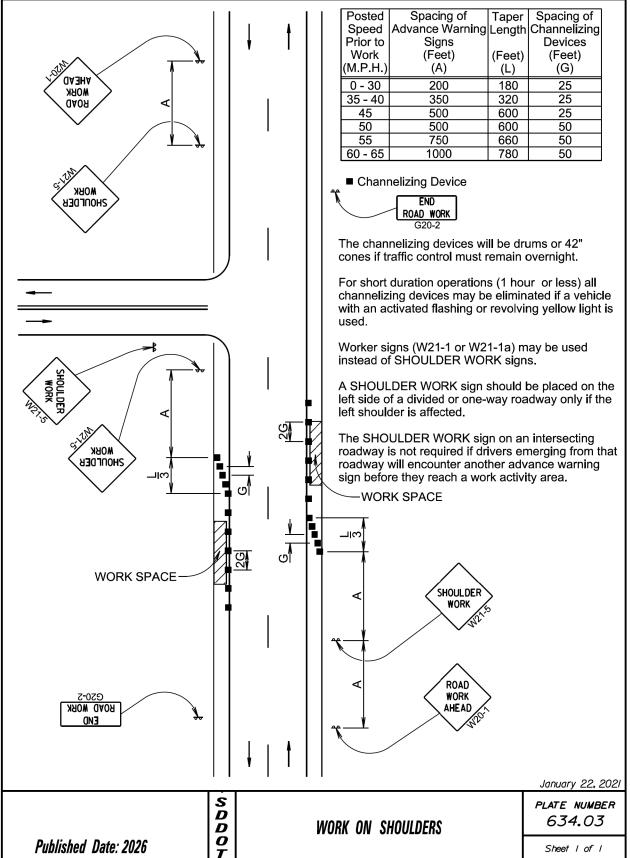
	SD 🚺	PROJECT	SECTION	SHEET
NI	DOT	000N-451 & 014A-451	Non	9/14
IN	Plotting Date:	5/1/2025		

LANE CLOSURE ON CLIMBING LANE SECTION OF HIGHWAY











000N-451 & 014A-451

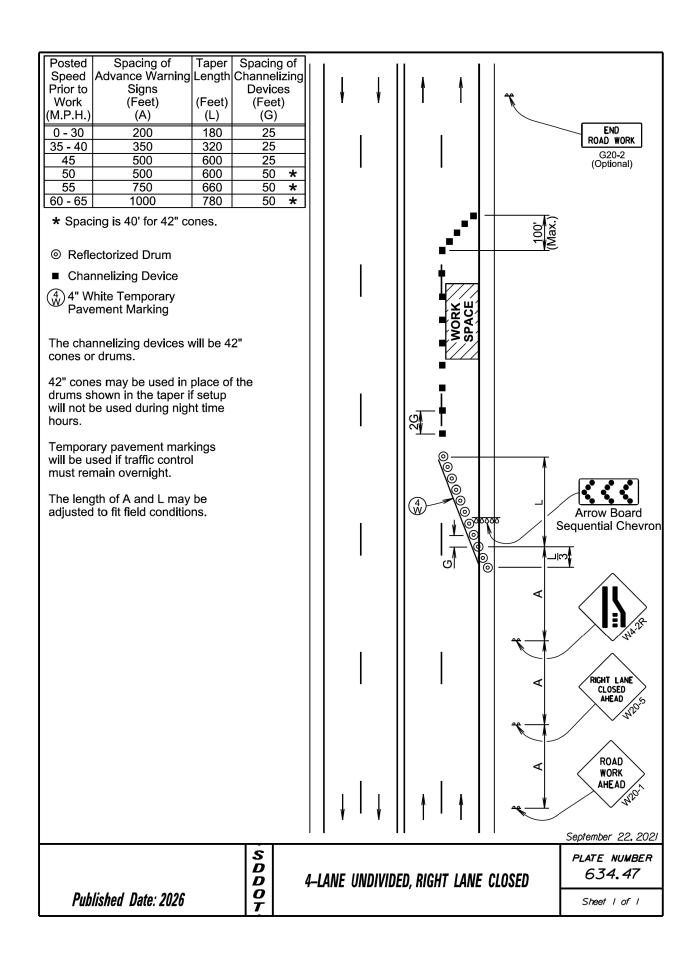
SECTION SHEET

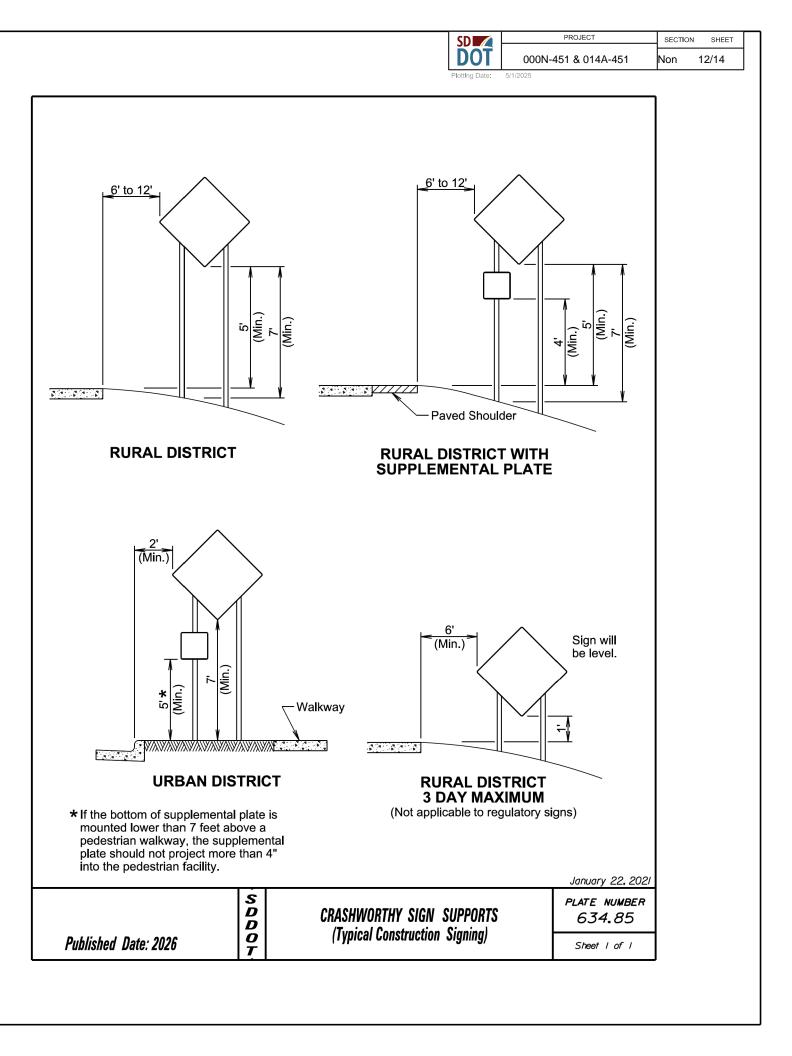
11/14 Non

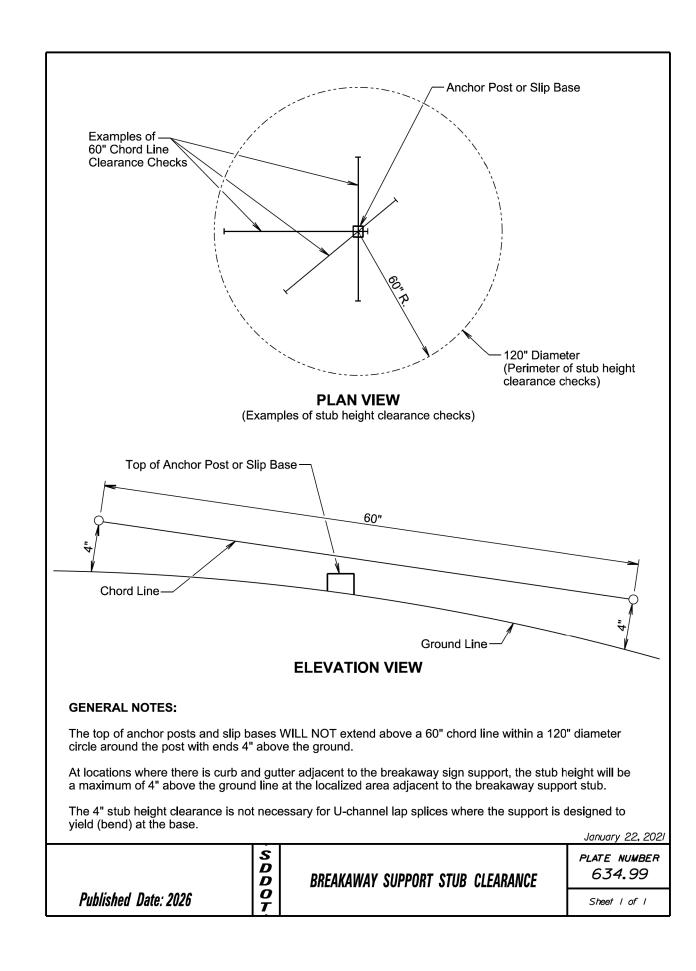
Plotting Date:

Posted	Spacing of	Taper	Spacing of
Speed	Advance Warning	Length	Channelizing
Prior to	Signs	Ŭ	Devices
Work	(Feet)	(Feet)	(Feet)
(M.P.H.)	`(A) ´	(L)	`(G) ´
0 - 30	200	180	25
35 - 40	350	320	25
45	500	600	25
50	500	600	50
55	750	660	50
60 - 65	1000	780	50

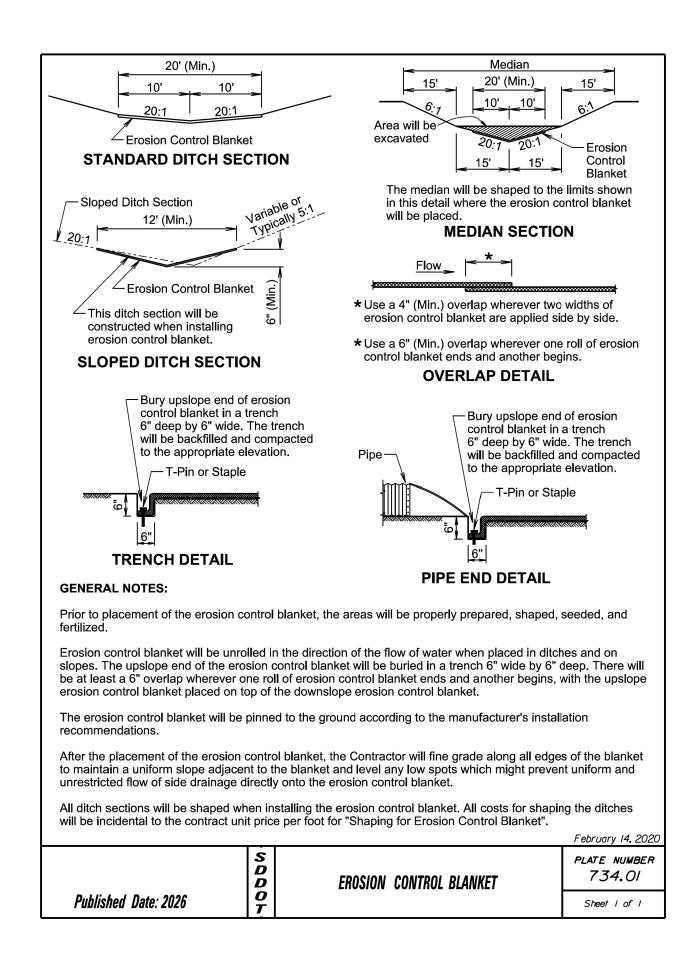








SD
Plotting Date:



SD
Plotting Date:

Plotting Date: 5/1/20