

SOUTH	NO.	SHEETS
DAKOTA 012-151	2	17

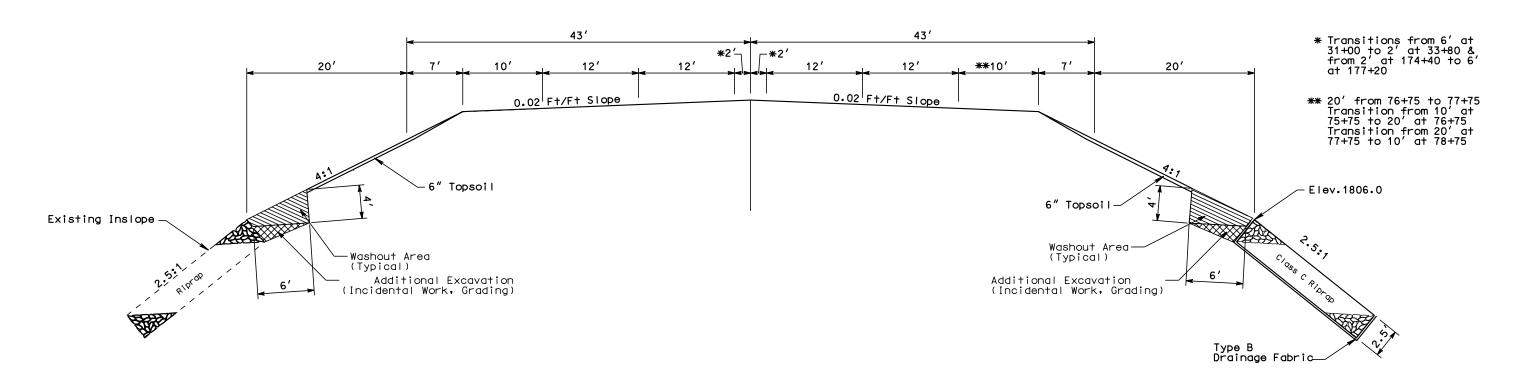
ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
230E0020	Placing Contractor Furnished Topsoil	400	CuYd
230E0100	Remove and Replace Topsoil	Lump Sum	LS
250E0020	Incidental Work, Grading	Lump Sum	LS
634E0010	Flagging	250	Hour
634E0100	Traffic Control	750	Unit
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0420	Type C Advance Warning Arrow Panel	2	Each
634E1210	State Furnished Portable Changeable Message Sign	2	Each
730E0100	Cover Crop Seeding	12	Bu
700E0310	Class C Riprap	22,920.0	Ton
730E0251	Special Permanent Seed Mixture 1	336	Lb
731E0100	Fertilizing	1,200	Lb
732E0100	Mulching	34	Ton
734E0131	Type 1 Turf Reinforcement Mat	17,333.3	SqYd
831E0110	Type B Drainage Fabric	37,564	SqYd

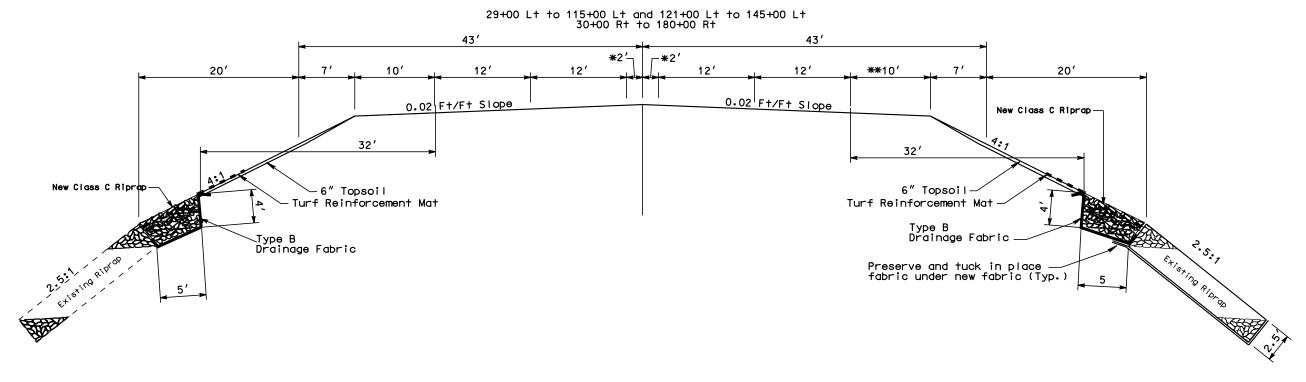
SPECIFICATIONS

Standard Specifications for Roads and Bridges, 2004 Edition and Required Provisions, Supplemental Specifications and/or Special Provisions as included in the Proposal.

IN PLACE TYPICAL SECTION SHOWING EROSION OF INSLOPES



IN PLACE TYPICAL SECTION SHOWING PROPOSED FABRIC & RIPRAP PROTECTION



PLOTTED FROM - TRAB17882

SCOPE OF WORK

Work on this project involves repairing the inslope riprap protection that exists along US Highway 12 across Rush Lake.

SEQUENCE OF OPERATIONS

The following Sequence of Operations shall be used for this project. The Contractor may submit an alternate Sequence of Operations for consideration by the Area Engineer. An alternate Sequence of Operations shall be submitted to the Area Engineer a minimum of 2 weeks prior to the preconstruction meeting.

- 1. Install construction signing.
- 2. Remove topsoil from inslopes.
- 3. Shape area to receive fabric and riprap.
- 4. Install drainage fabric and riprap.
- 5. Repair shoulder/inslope above riprap.
- 6. Install erosion control (turf mat, seeding & mulch).
- 7. Project Cleanup and Removal of Construction Signing.

TRAFFIC CONTROL

US 12 shall remain open to traffic at all times. One lane of traffic in each direction may be closed to traffic during working hours. If work is ongoing on both sides of the roadway such that a lane closure is in place, work shall be sequenced such that the lane closures are not opposite each other. The roadway shall be open to normal traffic flows during nighttime and other non-working hours.

The length of a lane closure shall not exceed 1 mile and the distance between closures shall not be less than 2 miles. A maximum of 2 lane closures (signing and Type C Advance Warning Arrow Panel) shall be measured and paid for.

Flagger(s) shall be required at any time that the Engineer determines that construction activities impose a hazard to the traveling public or construction crews. During peak traffic times, if traffic needs to be stopped, 2 sets of Flaggers may be required.

Channelizing Devices shall be placed on the top of the inslope at a maximum spacing of 100 ft in areas where inslope work is underway during non-working hours.

Removing, relocating, covering, salvaging and resetting of existing traffic control devices, including delineation, shall be the responsibility of the Contractor. Cost of this work shall be incidental to the various contract items unless otherwise specified in the plans. Delineators and signs damaged or lost shall be replaced by the Contractor at no cost to the State.

Should the Contractor choose to remove the existing Yellow Type 2 Object Markers located along the shoulders of US 12 across Rush Lake, Channelizing Devices shall be placed on the top of the inslope at a maximum spacing of 200 ft until the Type 2 Object Markers are permanently reinstalled by the Contractor.

Storage of vehicles and equipment shall be as near the right-of-way line as possible. Contractor's employees should mobilize at a location off the right-of-way and arrive at the work sites in a minimum number of vehicles necessary to perform the work. Indiscriminate driving and parking of vehicles within the right-of-way will not be permitted. Any damage to the vegetation, surfacing, embankment, delineators and existing signs resulting from such indiscriminate use shall be repaired and/or restored by the Contractor, at no expense to the State, and to the satisfaction of the Engineer.

Work activities during non-daylight hours are subject to prior approval.

Traffic approaching the project from intersecting roadways, streets, and approaches must be adequately accommodated. Major intersections or large commercial entrances may require additional signing, flaggers, and channelizing devices on a temporary basis until work activities pass these areas.

50 M.P.H. Advisory Speed Plates shall be attached to the W4-2 Lane Ends symbol signs.

The bottom of signs on portable or temporary supports shall not be less than seven feet above the pavement in urban areas and one foot above the pavement in rural areas. Portable sign supports may be used as long as the duration is less than 3 days. If the duration is more than 3 days the signs shall be on fixed supports.

All breakaway sign supports shall comply with FHWA NCHRP 350 crashworthy requirements. The Contractor shall provide post installation details at the preconstruction meeting for all steel post breakaway sign support assemblies.

Traffic Control units, as shown in the Estimate of Quantities, are estimates. Contractor's operation may require adjustments in quantities, either more or less. Payment will be for those signs actually ordered by the Engineer and used.

STATE FURNISHED PORTABLE CHANGEABLE MESSAGE SIGN

The SD DOT shall furnish the Contractor with two Portable Changeable Message Signs to advise the traveling public of the project work. The Contractor shall contact Phil Dwight from the Aberdeen SDDOT Area Office at (605) 626-7885 (a minimum of two weeks in advance) to determine the location and availability date of the message signs.

The Contractor shall position, maintain and repair the message signs in accordance with the plans and as directed by the Engineer.

The Contractor shall position one message sign for East bound traffic at MRM 349.3 and one message sign at MRM 353.0 for West bound traffic. The message signs shall be located beyond the edge of the roadway such as on an approach or in the ditch.

The message signs shall be in operation ONLY during working hours and shall display the following message "Road Work Ahead – Reduced Speed Ahead". Other messages may be displayed as directed by the Engineer.

All costs associated with obtaining, positioning, programming, maintaining, and returning the message signs shall be incidental to the contract unit price per each for STATE FURNISHED PORTABLE CHANGEABLE MESSAGE SIGN.

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REMOVE AND REPLACE TOPSOIL

Prior to beginning drainage fabric and riprap placement, a 6" depth of topsoil shall be removed from those areas above the present riprap line. The topsoil may be bladed up into a window at the top of the inslope. Following completion of riprap operations, topsoil shall be placed back on the inslopes on those area above the riprap.

All cost associated with removing and replacing the topsoil along areas to be graded shall be incidental to the lump sum price for REMOVE AND REPLACE TOPSOIL.

INCIDENTAL WORK, GRADING

Excavation and shaping shall be required prior to placing the drainage fabric and riprap. The excavation required shall allow for the placement of the drainage fabric and riprap as shown on the "In Place Typical Section Showing Proposed Fabric & Riprap Protection". Excavation and shaping shall allow for placement of a 2.5 ft thickness of riprap with the top of the riprap elevation being approximately elevation 1809.

Excavated material shall become the property of the Contractor for his disposal.

All costs associated with excavation, shaping and disposal shall be incidental to the contract lump sum price for INCIDENTAL WORK, GRADING. The Contractor shall be responsible for visiting the project site and determining the amount of work required for this contract item.

DRAINAGE FABRIC AND RIPRAP

Riprap for use on this project shall be Class C conforming to Section 830 of the Standard Specifications.

The drainage fabric and riprap shall be placed as per Typical Section on the inslopes. Any in place fabric at the top of the existing riprap limits shall preserved and tucked under the new fabric installation. The limits of riprap placement may be adjusted in the field by the Engineer. Plans were prepared accounting for additional erosion to have taken place from the time the plans were prepared until construction activities are completed. The top edge of fabric shall be pinned into the subgrade a minimum of 1 ft at the top of the riprap placement. Vehicles and equipment shall not be operated directly on the drainage fabric.

TYPE B DRAINAGE FABRIC will be measured and paid for by the square yard of surface area, including vertical surfaces covered by the fabric. Payment shall be full compensation for furnishing and placing the fabric and for all labor, equipment, materials and incidentals necessary to prepare the area for satisfactory placement of the drainage fabric.

The quantity of Type B Drainage Fabric shown in the Estimate of Quantities is based upon a width of 13 ft.

CLASS C RIPRAP shall be measured and paid for by the ton in place as shown on the weigh ticket which shall accompany each load.

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PLACING CONTRACTOR FURNISHED TOPSOIL

It is anticipated that a larger volume of topsoil will be needed for the new grade than can be salvaged from the existing grade. The Contractor will be required to furnish and place 4 inches of topsoil on roadway inslopes and areas as determined by the Engineer during construction.

All costs to furnish and place the topsoil shall be incidental to the contract unit price per cubic yard for PLACING CONTRACTOR FURNISHED TOPSOIL.

DRILLS

In addition to the drills specified in Section 730 of the Standard Specifications, other types of drills including no-till drills will be allowed as long as they have baffles, partitions, agitators, or augers which keep the seed distributed throughout the seed box and the seed is planted at a depth of $\frac{1}{2}$ " to $\frac{1}{2}$ ".

FERTILIZING

A commercial fertilizer with a minimum guaranteed analysis of 18-46-0, 11-52-0, or an approved alternate fertilizer shall be applied to all areas designated for permanent seeding. The application rate of fertilizer shall be 100 pounds per acre.

PERMANENT SEEDING

The areas to be seeded comprise of all newly graded areas within the project limits except for the top of roadways and temporary easements under cultivation. The estimated area to seed is 12 acres.

All permanent seed shall be planted in the topsoil at a depth of ¼" to ½".

All seed broadcast must be raked or dragged in (incorporated) within the top $\frac{1}{2}$ " to $\frac{1}{2}$ " of topsoil when possible. This requirement may be waived by the Engineer during construction when raking or dragging is deemed not feasible by conventional methods.

Special Permanent Seed Mixture 1 shall consist of the following:

Grass Species	Variety	Pure Live Seed (PLS) (Pounds/Acre)
Intermediate Wheatgrass	Chief, Oahe, Slate	8
Western Wheatgrass	Flintlock, Rodan, Rosana	4
Switchgrass	Dacotah, Forestburg, Nebraska 28, Pathfinder, Summer, Sunburst, Trailblazer	3
Big Bluestem	Bison, Bonilla, Champ, Pawnee, Sunnyview	3
Oats or Spring Wheat: April through July;		10
Winter Wheat: August through November		
	Total:	28

MULCHING (GRASS HAY OR STRAW)

Bales with noxious weed contamination will be rejected and the Contractor will be required to remove the contaminated bales from the project.

An additional 10 tons of Grass Hay or Straw Mulch has been added to the Estimate of Quantities for temporary erosion control on areas determined by the Engineer during construction for temporary stabilization.

COVER CROP SEEDING

Cover crop seeding may be used on this project as a temporary erosion control measure. The quantity of cover crop seeding was estimated at 100% of the disturbed earthen areas. The actual limits and use of cover crop seeding shall be determined by the Engineer during construction.

TURF REINFORCEMENT MAT

Turf Reinforcement Mat shall be installed at locations shown in the table at the widths specified, and at locations determined by the Engineer during construction. The Contractor shall use a turf reinforcement mat from the approved products list. The approved product list for turf reinforcement mat may be viewed at the following internet site:

http://www.state.sd.us/Applications/HC54ApprovedProducts/main.asp

Installation of the Turf Reinforcement Mat shall be according to the manufacturer's installation instructions.

Turf Reinforcement Mat shall be placed immediately above the top of the Riprap on the 4:1 inslope.

TABLE OF TURF REINFORCEMENT MAT

Sta	Station to		Station			Location	L/R	Width (Ft)	Туре	Quantity (SqYd)
29-	+00		115+00)	Above Riprap	L	6	1	5733.3
121	1+00		145+00)	Above Riprap	L	6	1	1600.0
30-	+00		180+00)	Above Riprap	R 6		1	10000.0
						Total Type 1 Turf Reinforcement Mat: 17,333.3				

GENERAL NOTES

All waste and excess material generated from the various construction activities shall be removed from the ROW as determined by the Engineer.

WATER SOURCE

The Contractor shall not withdraw water with equipment previously used outside the State of South Dakota without prior approval from the DOT Environmental Office.

The Contractor shall not withdraw water directly from streams of the James, Big Sioux, and Vermillion watersheds without prior approval from the DOT Environmental Office.

The DOT Environmental Office contact person is Ryan Huber, 605-773-3568. The WATER SOURCE plan note does not relieve the Contractor of his/her responsibility to obtain the necessary permits from other agencies such as the Department of Environment and Natural Resources (DENR) and the United States Army Corps of Engineers (COE).

WORK AFFECTING WATERWAYS

A. WATER QUALITY

Surface Water Discharge

If construction dewatering is required, the Contractor is required to obtain a Surface Water Discharge Permit from the DENR. Contact the DENR Surface Water Program at 605-773-3351 to apply for a permit.

Storm Water

The Contractor is advised this project is regulated under the Phase II Storm Water Regulations and must receive coverage under the DENR General Permit for Construction Activities. A Notice of Intent (NOI) will be submitted to DENR a minimum of 15 days prior to project start by the DOT Environmental Office. A letter must be received from DENR that acknowledges project coverage under this general permit before project start. The Contractor is advised that permit coverage may also be required by offsite activities, such as borrow and staging areas, which are the responsibility of the Contractor.

A major component of the storm water construction permit is development and implementation of a storm water pollution prevention plan (SWPPP). This plan is a joint effort and responsibility of the DOT and the Contractor. The SWPPP is a dynamic document and is to be available on-site at all times. Information on storm water requirements and SWPPP are available on the following websites:

DOT: http://www.sddot.com/pe/projdev/environment stormwater.asp
DENR: http://www.denr.sd.gov/des/sw/stormwater.aspx

WASTE DISPOSAL SITE

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

Construction/demolition debris may not be disposed of within the State ROW.

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

The waste disposal site(s) shall 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 Engineer.

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

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

HISTORICAL PRESERVATION OFFICE CLEARANCES

To obtain State Historical Preservation Office (SHPO) clearance, a cultural resources survey may need to be conducted by a qualified archaeologist. In lieu of a cultural resources survey, the Contractor could request a records search from Jim Donohue, State Archaeological Research Center (SARC). Provide SARC with the following: a topographical map or aerial view on 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 no artifacts have been found on the site. The Contractor shall arrange and pay for the cultural resource survey and/or records search.

If any earth disturbing activities occur within the current geographical or historic boundaries of any South Dakota reservation, the Contractor shall obtain Tribal Historical Preservation Office (THPO) clearance. If no THPO exists, the required SHPO clearance shall suffice, with documentation of Tribal contact efforts provided to SHPO.

To facilitate SHPO or THPO responses, the Contractor should submit a records search or cultural resources survey report to Tom Lehmkuhl, DOT Environmental Engineer, 700 East Broadway Avenue, Pierre, SD 57501-2586 (605-773-3180). Allow 30 days from the date this information is submitted to the Environmental Engineer for SHPO/THPO approval. The Contractor is responsible for obtaining all required permits and clearances for staging areas, borrow sites, waste disposal sites, and all material processing sites. The Contractor shall provide the required permits and clearances to the Engineer at the preconstruction meeting.

> Structural Temporary Erosion and Sediment Controls

☐ Silt Fence

STORM WATER POLLUTION PREVENTION PLAN CHECKLIST

(The numbers right of the title headings are reference numbers to the

☐ Floating Silt Curtain Straw Bale Check

☐ Temporary Slope Drain

Temporary Berm

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Maintenance and Inspection (4.2 3. and 4.2 4.)

> Maintenance and Inspection Practices

- Inspections will be conducted at least one time per week and after a storm event of 0.50 inches or greater.
- All controls will be maintained in good working order. Necessary repairs will be initiated within 24 hours of the site inspection
- Silt fence will be inspected for depth of sediment and for tears in order to ensure the fabric is securely attached to the posts and that the posts are well anchored. Sediment buildup will be removed from the silt fence when it reaches $\frac{1}{3}$ of the height of
- Sediment basins and traps will be checked. Sediment will be removed when depth reaches approximately 50 percent of the structure's capacity, and at the conclusion of the construction.
- Check dams will be inspected for stability. Sediment will be removed when depth reaches ½ the height of the dam.
- All seeded areas will be checked for bare spots, washouts, and vigorous growth free of significant weed infestations.
- Inspection and maintenance reports will be prepared on form DOT 298 for each site inspection, this form will also be used to document changes to the SWPPP. A copy of the completed inspection form will be filed with the SWPPP documents.
- The SDDOT Project Engineer and contractor's site superintendent are responsible for inspections. Maintenance, repair activities are the responsibility of the contractor. The SDDOT Project Engineer will complete the inspection and maintenance reports and distribute copies per the distribution

The	following	non-storm	water	discharges	are	anticipated	during	the
cour	se of this p	oroject (che	ck all th	nat apply).				

>	Disc	chard	es fi	nm	water	line	flushing

>	Pavement wash-water,	where no	spills or	leaks of	toxic or
	hazardous materials have		•		

>	Uncontaminated ground water associated with dewatering
	activities.

The following materials or substances are expected to be present on the site during the construction period. These materials will be handled as noted under the headings "EROSION AND SEDIMENT CONTROLS" and oly).

ιιοι	ed under the headings ENOSION AND
"SF	PILL PREVENTION" (check all that app
	☐Concrete and Portland Cement
	□ Detergents
\triangleright	□Paints
	☐Metals
\triangleright	☐Bituminous Materials
\triangleright	☐Petroleum Based Products
\triangleright	☐Cleaning Solvents
\triangleright	□Wood
\triangleright	☐Cure
	□Texture
\triangleright	
\triangleright	Other

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Spill Prevention (4.2 2.c.(2))

Material Management

- Housekeeping
 - Only needed products will be stored on-site by the contractor.
 - Except for bulk materials the contractor will store all materials under cover and in appropriate containers.
 - Products must be stored in original containers and labeled.
 - Material mixing will be conducted in accordance with the manufacturer's recommendations.
 - When possible, all products will be completely used before properly disposing of the container off site.
 - The manufacturer's directions for disposal of materials and containers will be followed.
 - The contractor's site superintendent will inspect materials storage areas regularly to ensure proper use and disposal.
 - Dust generated will be controlled in an environmentally safe manner
 - Vegetation areas not essential to the construction project will be preserved and maintained as noted on the plans.

Hazardous Materials

- Products will be kept in original containers unless the container is not resealable.
- Original labels and material safety data sheets will be retained in a safe place to relay important product information.
- If surplus product must be disposed of, manufacturer's label directions for disposal will be followed.
- Maintenance and repair of all equipment and vehicles involving oil changes, hydraulic system drain down, degreasing operations, fuel tank drain down and removal, and other activities which may result in the accidental release of contaminants will be conducted on an impervious surface and under cover during wet weather to prevent the release of contaminants onto the ground.
- Wheel wash water will be collected and allowed to settle out suspended solids prior to discharge. Wheel wash water will not be discharged directly into any storm water system or storm water treatment system.
- Potential pH-modifying materials such as: bulk cement, cement kiln dust, fly ash, new concrete washings, concrete pumping, and mixer washout waters will be collected on site and managed to prevent contamination of storm water runoff.

> Product Specific Practices (6.8)

Petroleum Products

All on-site vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers which are clearly labeled.

Fertilizers

Fertilizers will be applied only in the amounts specified by the SDDOT. Once applied, fertilizers will be worked into the soil to limit the exposure to storm water. Fertilizers will be stored in an enclosed area. The contents of partially used fertilizer bags will be transferred to sealable containers to avoid spills.

Paints

All containers will be tightly sealed and stored when not required for use. The excess will be disposed of according to the manufacturer's instructions and any applicable state and local regulations.

Concrete Trucks

Contractors will provide designated truck washout areas on the site. These areas must be self contained and not connected to any storm water outlet of the site. Upon completion of construction washout areas will be properly stabilized.

> Spill Control Practices (4.2 2 c.(2))

In addition to the previous housekeeping and management practices, the following practices will be followed for spill prevention and cleanup if needed.

- For all hazardous materials stored on site, the manufacturer's recommended methods for spill clean up will be clearly posted.
 Site personnel will be made aware of the procedures and the locations of the information and cleanup supplies.
- Appropriate cleanup materials and equipment will be maintained by the contractor in the materials storage area on-site. As appropriate, equipment and materials may include items such as brooms, dust pans, mops, rags, gloves, goggles, kitty litter, sand, sawdust, and plastic and metal trash containers specifically for clean up purposes.
- All spills will be cleaned immediately after discovery and the materials disposed of properly.
- The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- After a spill a report will be prepared describing the spill, what caused it, and the cleanup measures taken. The spill prevention plan will be adjusted to include measures to prevent this type of spill from reoccurring, as well as clean up instructions in the event of reoccurrences.
- The contractor's site superintendent, responsible for day-to-day operations, will be the spill prevention and cleanup coordinator. The contractor is responsible for ensuring that the site superintendent has had appropriate training for hazardous materials handling, spill management, and cleanup.

> Spill Response (4.2 2 c.(2))

The primary objective in responding to a spill is to quickly contain the material(s) and prevent or minimize migration into storm water runoff and conveyance systems. If the release has impacted on-site storm water, it is critical to contain the released materials on-site and prevent their release into receiving waters. If a spill of pollutants threatens storm water or surface water at the site, the spill response procedures outlined below must be implemented in a timely manner to prevent the release of pollutants.

- The contractor's site superintendent will be notified immediately when a spill or the threat of a spill is observed. The superintendent will assess the situation and determine the appropriate response.
- If spills represent an imminent threat of escaping erosion and sediment controls and entering receiving waters, personnel will be directed to respond immediately to contain the release and notify the superintendent after the situation has been stabilized.
- Spill kits containing appropriate materials and equipment for spill response and cleanup will be maintained by the contractor at the site.
- If oil sheen is observed on surface water (e.g. settling ponds, detention ponds, swales), action will be taken immediately to remove the material causing the sheen. The contractor will use appropriate materials to contain and absorb the spill. The source of the oil sheen will also be identified and removed or repaired as necessary to prevent further releases.

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- If a spill occurs the superintendent or the superintendent's designee will be responsible for completing the spill reporting form and for reporting the spill to SD DENR.
- Personnel with primary responsibility for spill response and clean up will receive training by the contractor's site superintendent or designee. The training must include identifying the location of the spill kits and other spill response equipment and the use of spill response materials.
- Spill response equipment will be inspected and maintained as necessary to replace any materials used in spill response activities

Spill Notification

In the event of a spill, the contractor's site superintendent will make the appropriate notification(s), consistent with the following procedures:

- A release or spill of a regulated substance (includes petroleum and petroleum products) must be reported to DENR immediately if any one of the following conditions exists:
 - The discharge threatens or is in a position to threaten the waters of the state (surface water or ground water).
 - The discharge causes an immediate danger to human health or safety.
 - The discharge exceeds 25 gallons.
 - The discharge causes a sheen on surface water.
 - The discharge of any substance that exceeds the ground water quality standards of ARSD (Administrative Rules of South Dakota) chapter 74:54:01.
 - The discharge of any substance that exceeds the surface water quality standards of ARSD chapter 74:54:01.
 - The discharge of any substance that harms or threatens to harm wildlife or aquatic life.
 - The discharge of crude oil in field activities under SDCL (South Dakota Codified Laws) chapter 45-9 is greater than 1 barrel (42 gallons).

To report a release or spill, call DENR at 605-773-3296 during regular office hours (8 a.m. to 5 p.m. Central time). To report the release after hours, on weekends or holidays, call State Radio Communications at 605-773-3231. Reporting the release to DENR does not meet any obligation for reporting to other state, local, or federal agencies. Therefore, the responsible person must also contact local authorities to determine the local reporting requirements for releases. DENR recommends that spills also be reported to the National Response Center at (800) 424-8802.

Construction Changes (4.4)

When changes are made to the construction project that will require alterations in the temporary erosion controls of the site, the Storm Water Pollution Prevention Plan (SWPPP) will be amended to provide appropriate protection to disturbed areas, all storm water structures, and adjacent waters. The SDDOT Project Engineer will modify the SWPPP plan (DOT 298) and drawings to reflect the needed changes. Copies of changes will be routed per DOT 298. Copies of forms and the SWPPP will be retained in a designated place for review over the course of the project.

❖ CERTIFICATIONS

Certification of Compliance with Federal, State, and Local Regulations

The Storm Water Pollution Prevention Plan (SWPPP) for this project reflects the requirements of all local municipal jurisdictions for storm water management and sediment and erosion control as established by ordinance, as well as other state and federal requirements for sediment and erosion control plans, permits, notices or documentation as appropriate.

> South Dakota Department of Transportation

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Authorized Signature (See the General Permit, Section 6.7.1.C.)

Prime Contractor

This section is to be executed by the General Contractor after the award of the contract. This section may be executed any time there is a change in the Prime Contractor of the project.

I certify under penalty of law that this document and all attachments will be revised or maintained under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Signature	

CONTACT INFORMATION

Contractor Information:

- Prime Contractor Name:
- Contractor Contact Name:
- Address:
- Address:

City: State: Zip:

Office Phone: Field:

Cell Phone: Fax:

> Erosion Control Supervisor

- Name:
- Address:
- Address:

City: State: Zip:

Office Phone: Field:

Cell Phone:
Fax:

> SDDOT Project Engineer

- Name:
- Business Address: 2735 West Highway 12 (Box 1767)
- Job Office Location:

• City: State: Zip:

• Office Phone: 605-626-7885 Field:

• Cell Phone: Fax:605-626-3322

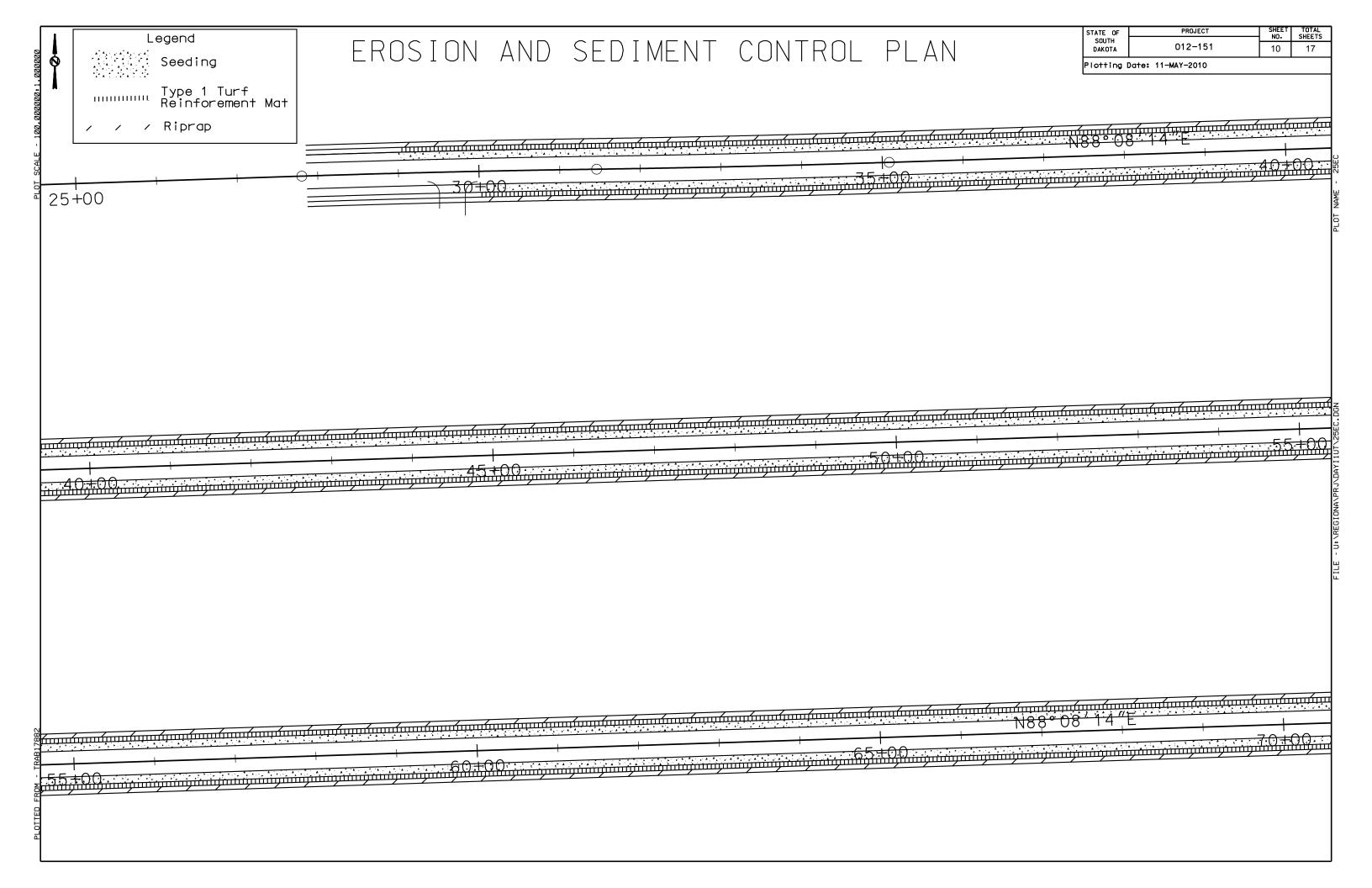
> SD DENR Contact Spill Reporting

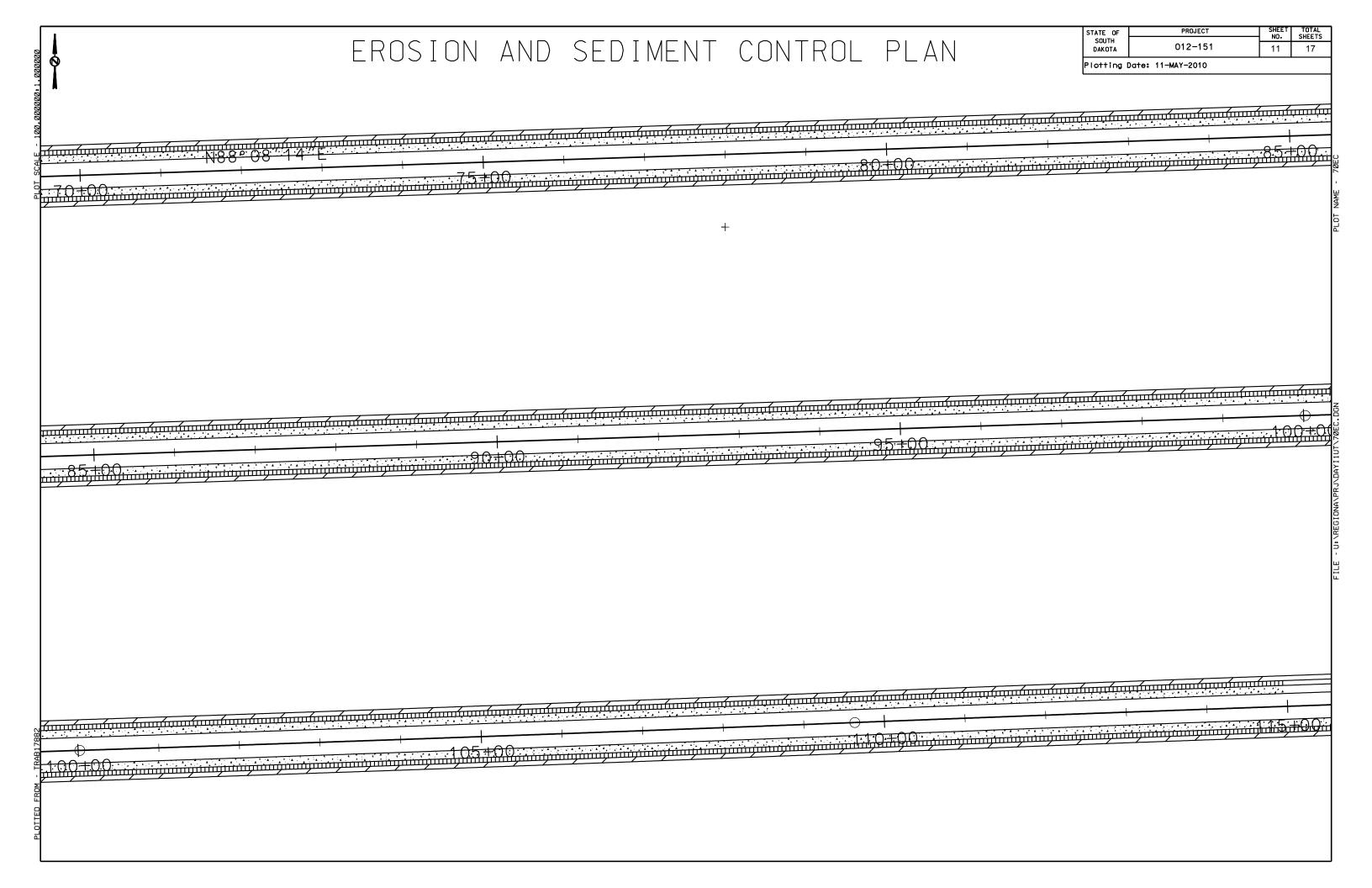
- Business Hours Monday-Friday (605) 773-3296
- Nights and Weekends (605) 773-3231
- > SD DENR Contact for Hazardous Materials.
 - **(605)** 773-3153

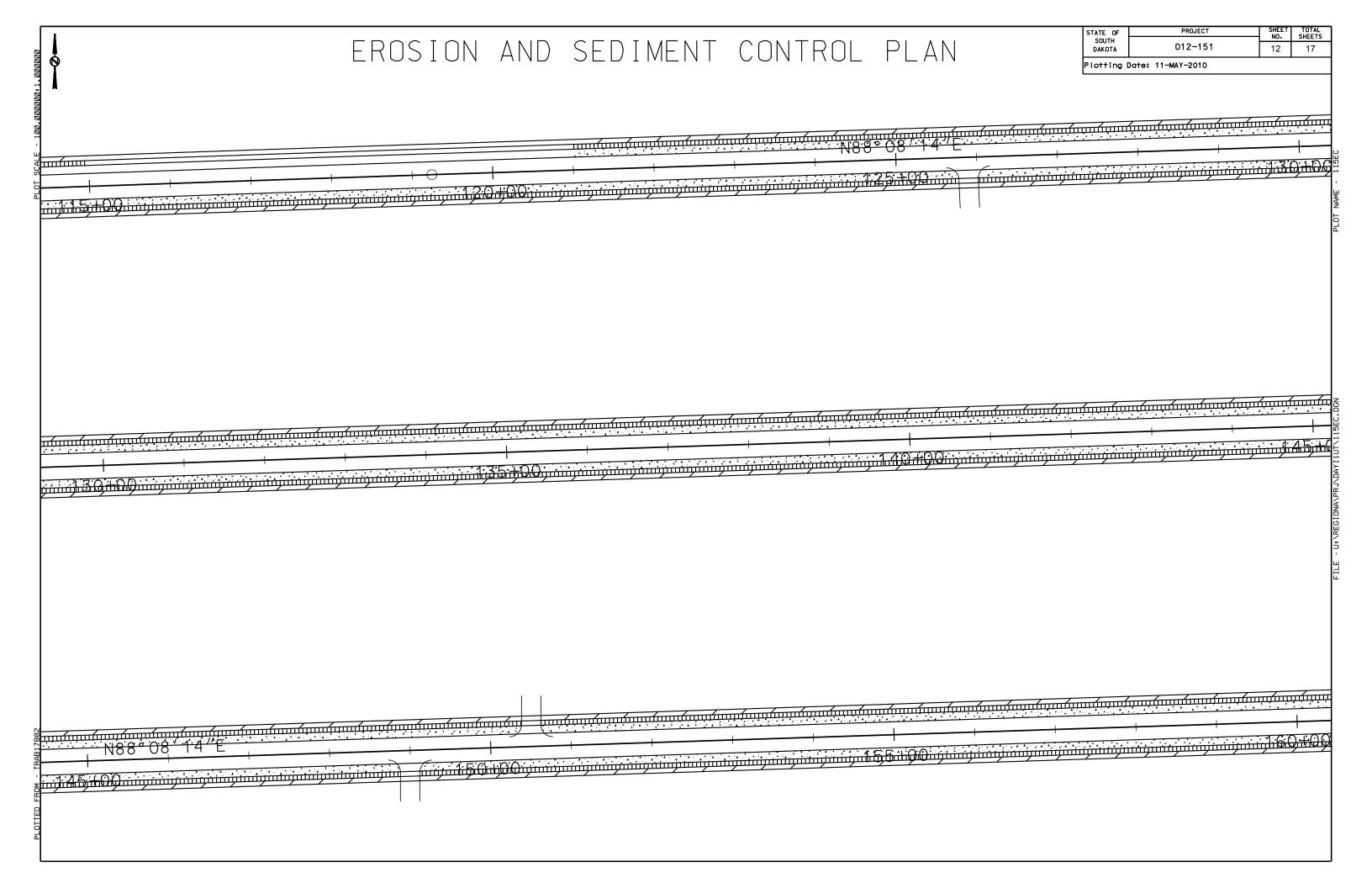
> National Response Center Hotline

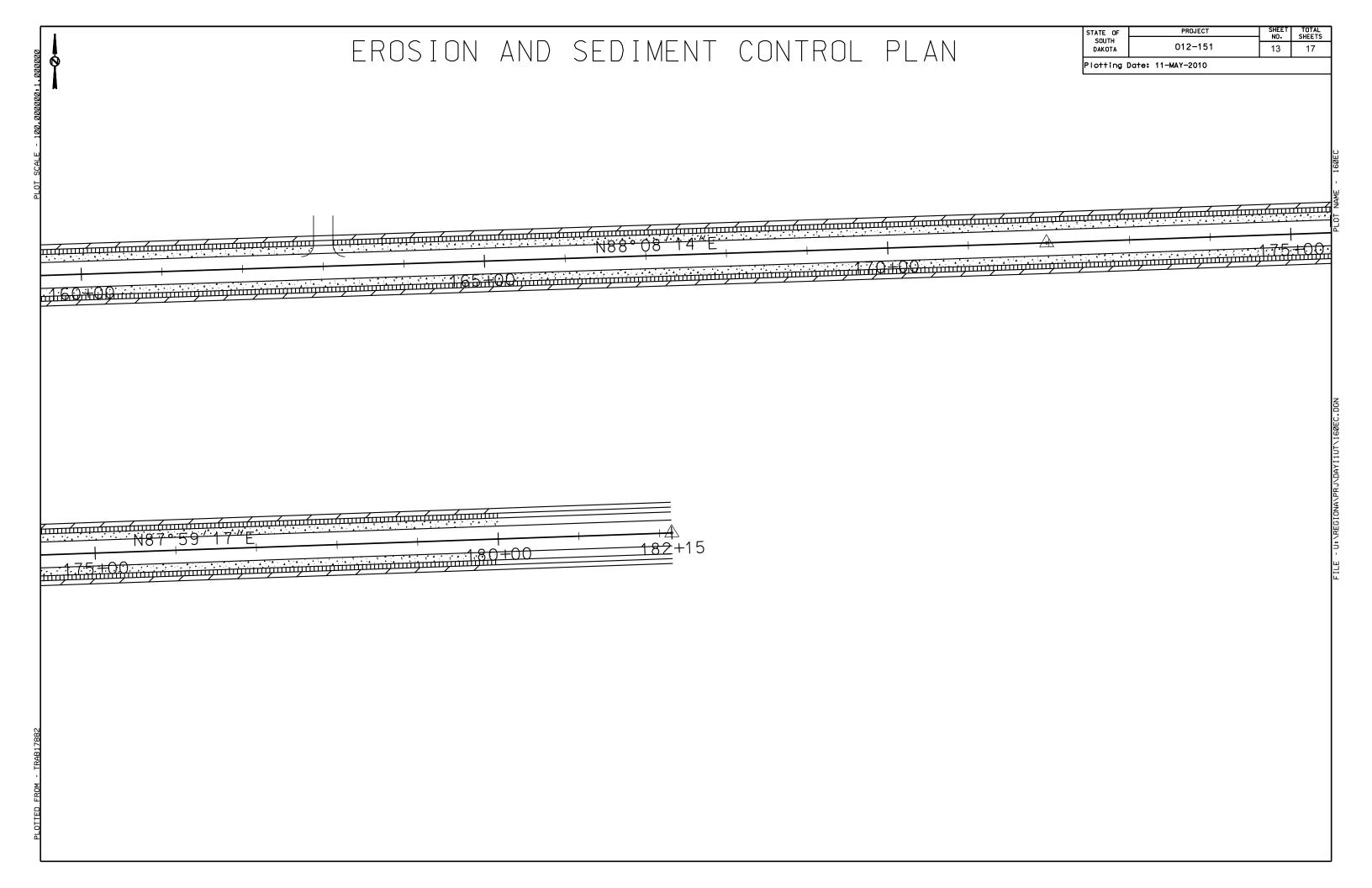
(800) 424-8802.

STATE OF	PROJECT	SHEET NO.	TOTAL SHEETS
SOUTH DAKOTA	012-151	9	17





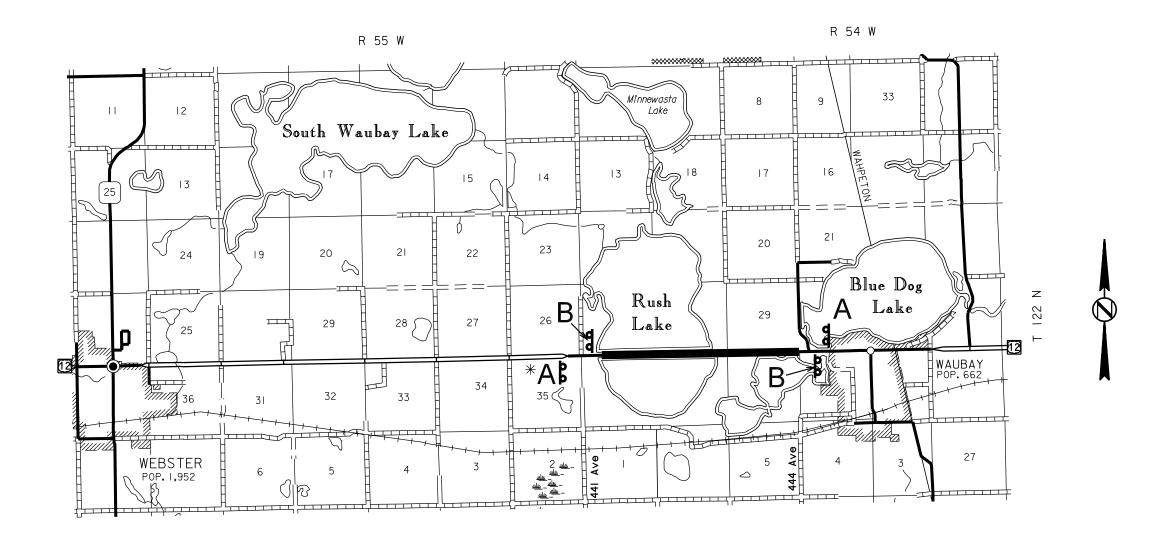




FIXED LOCATION SIGNS

STATE OF	PROJECT	SHEET NO.	TOTAL SHEETS
SOUTH Dakota	012-151	14	17

Plotting Date: 11-MAY-2010



ROAD WORK

NEXT OO MILES

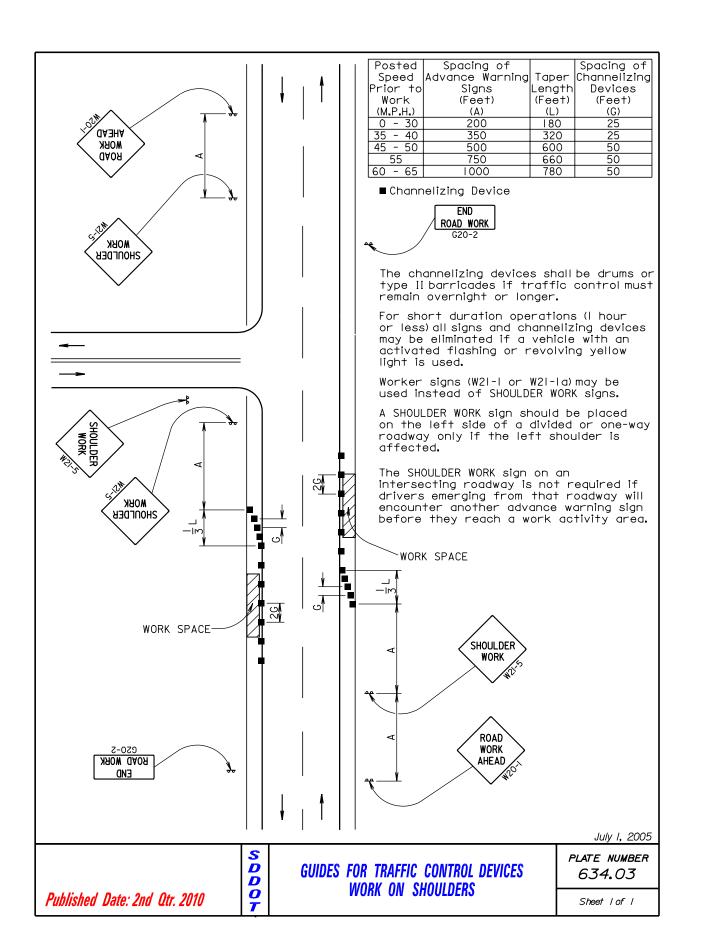
В

END

ROAD WORK

* A sign shall be place on the median and outside shoulder of the East Bound Lanes.

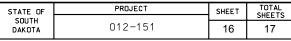
CASTIBABL MOS



	STATE OF	PROJECT	SHEET	TOTAL SHEETS	
	SOUTH			SHEETS	
ı	DAKOTA	012-151	15	17	

Plotting Date: 03-MAY-2010

Posted Spacing of Speed Advance Warning Taper Length (Feet) (Feet) (Feet) (L) O - 30 200 180 35 - 40 350 320 45 - 50 500 600 55 750 660 60 - 65 1000 780	n Devic	estizing ces et)
■ Channelizing Device Drums or Type II Barricades shall be used if required overnight. 42" cones may be used along centerline Longitudinal dimensions may be to fit project conditions such horizontal curves, vertical curve other site restrictions.	as	WORK
Four inch white temporary pave marking shall be used if traffi must remain overnight or longe	c contro	Arrow Panel
		ROAD WORK AHEAD APril 1, 2008
Published Date: 2nd Otr. 2010	S D D O T	GUIDES FOR TRAFFIC CONTROL DEVICES 4-LANE UNDIVIDED, RIGHT LANE CLOSED PLATE NUMBER 634.47 Sheet of



Plotting Date: 03-MAY-2010

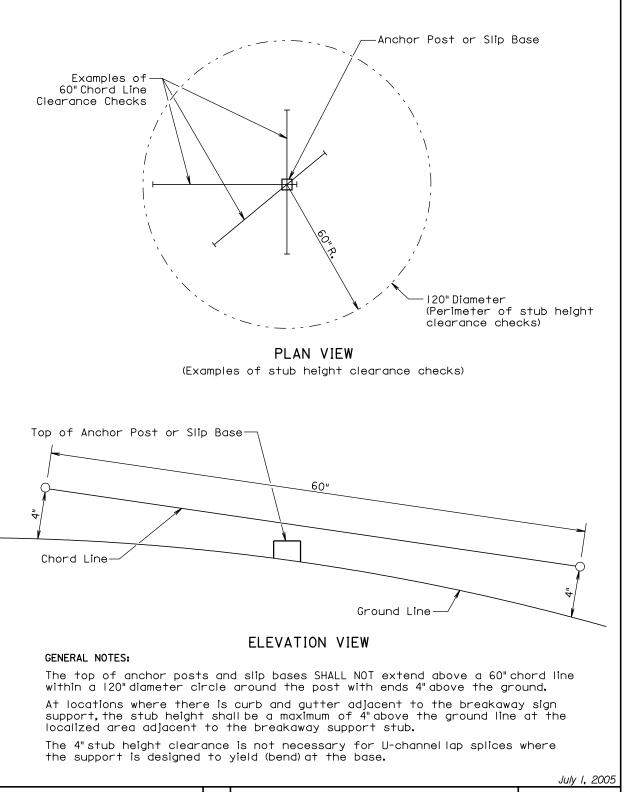


PLATE NUMBER

BREAKAWAY SUPPORT STUB CLEARANCE

*634.*99

Sheet I of I

D D 0

URBAN DISTRICT

Published Date: 2nd Qtr. 2010

6' to 12'

RURAL DISTRICT

BREAKAWAY SIGN SUPPORTS (Typical Construction Signing)

6' Minimum

Paved Shoulder

URBAN DISTRICT

RURAL DISTRICT WITH SUPPLEMENTAL PLATE

Minimum

PLATE NUMBER *634.85*

Sheet I of I

√ Walkway

Published Date: 2nd Qtr. 2010

D D O T

SOUTH DAKOTA 012-151 17 17	STATE OF	PROJECT	SHEET NO.	TOTAL
		012-151		17

ITEMIZED LIST FOR TRAFFIC CONTROL

012-151

SIGN CODE	ODE SIGN SIZE DESCRIPTION NUMBER REQUIRED SIGN		UNITS		
G20-1	48" x 24"	ROAD WORK NEXT ## MILES	3	24	72
G20-2A	36" x 18"	END ROAD WORK	2	17	34
W4-2	48" x 48"	LEFT OR RIGHT LANE ENDS (SYMBOL)	2	34	68
W8-6	48" x 48"	TRUCK CROSSING	4	34	136
W13-1	24" x 24"	ADVISORY SPEED PLATE	2	16	32
W20-1	48" x 48"	ROAD WORK #### FT. OR AHEAD	2	34	68
W20-5	W20-5 48" x 48" LT. OR RT. LANE CLOSED #### FT. OR AHEAD		2	34	68
W20-7a	48" x 48"	FLAGGER	2	34	68
W20-7b	48" x 48"	BE PREPARED TO STOP	2	34	68
W21-5	48" x 48"	SHOULDER WORK	4	34	136
TOTAL UNITS					

If a sign is required on a project and not listed in the above inventory, the units per sign will be determined as follows: Signs 36" x 36" will be measured at 27 units each and signs 48" x 48" will be measured at 34 units each, otherwise: If a sign measures less than 25" high and 25" wide the units per sign will be computed as sign size (sq ft) x 3. If a sign measures between 23H" and 37H" the units per sign will be computed as sign size (sq ft) x 1.2 +15.