

June 5, 2026

Re: **On-Site Visit Opportunities**; Project EM-P 0044(207)290 – PCN 05X0 – SD44 Missouri River Bridge (Platte/Winner)

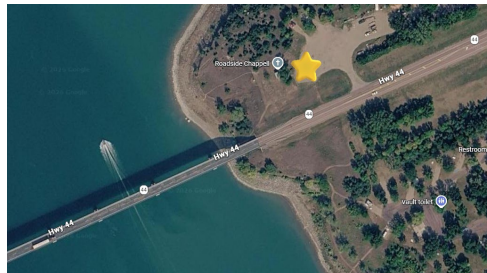
To Whom It May Concern,

The South Dakota Department of Transportation (SDDOT) will offer two on-site visit opportunities for contractors interested in the Platte/Winner Bridge project. These visits are intended to provide prospective bidders with the chance to become familiar with the project site and meet with SDDOT. The preference is for subcontractors to coordinate on-site visits with prime contractors.

The SDDOT will be available to meet with contractors on Tuesday, June 23<sup>rd</sup> and Thursday, June 25<sup>th</sup> from 10:00 a.m. to 4:00 p.m. CST.

#### **Meeting Location**

Attendees should meet in the parking lot on the northeast side of the project site.



#### **Attendance Request**

Contractors must sign up for a time slot by filling out the form attached and emailing it to the SDDOT at [DOTBids@State.SD.US](mailto:DOTBids@State.SD.US). The SDDOT asks that all requests for on-site visits be made by Friday, June 19<sup>th</sup>.

We appreciate your interest in the Platte/Winner Bridge project and look forward to meeting with you on site.

Sincerely,  
SD DOT

**Contractor On-Site Visit Request Form**

**Project:** SD44 Platte/Winner Bridge – PCN 05X0

**Date of Request:** \_\_\_\_\_

**Company Information**

- Company Name: \_\_\_\_\_
- Primary Contact Name: \_\_\_\_\_
- Phone Number: \_\_\_\_\_
- Email Address: \_\_\_\_\_

**Attendees for On-Site Visit**

(Please list all individuals who will attend.)

1. Name: \_\_\_\_\_ Phone: \_\_\_\_\_
2. Name: \_\_\_\_\_ Phone: \_\_\_\_\_
3. Name: \_\_\_\_\_ Phone: \_\_\_\_\_
4. Additional attendees (if any): \_\_\_\_\_

**Type of Work Performed by Your Company**

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**Requested On-Site Visit Time**

Site visits are offered in 30-minute increments between **10:00 AM and 4:00 PM**. If your preferred time slot is not available, the SDDOT will contact you to pick a new time. The contractor will receive an email notification once their requested time slot has been reviewed and approved.

Preferred Time Slot: \_\_\_\_\_

**Request for Additional Time (Optional)**

If your team requires more than the standard 30-minute visit, please describe the reason and the amount of additional time requested. Additional time is not guaranteed but will be considered:

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**Signature**

By submitting this form, the contractor acknowledges that site visit scheduling is subject to availability and confirmation.

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

June 5, 2026

Re: **Virtual Pre-Bid Meeting** Project EM-P 0044(207)290 – PCN 05X0 – SD44 Missouri River Bridge (Platte/Winner)

To Whom It May Concern,

A pre-bid meeting for the Platte/Winner Bridge Reconstruction Project is scheduled for Tuesday, July 7th at 1:30 PM CST and will be conducted via Microsoft Teams. All interested contracting parties are invited to participate using the meeting link provided below.

The meeting will include a presentation outlining the project's overall scope of work, key design elements, traffic control considerations, and contract time. Contractors will also have the opportunity to ask questions of Department staff, consultants, and project stakeholders.

Although attendance is not mandatory, all interested contracting parties are strongly encouraged to join.

Participants must join the meeting using the link provided. To minimize audio feedback, please ensure your computer microphone is muted. Because the meeting will be held virtually, we ask that you enter your company name followed by the names of all attendees from your organization into the Microsoft Teams chat upon joining. A recording of the pre-bid meeting will be made available on the SDDOT Contractor SharePoint site following the meeting.

## **Join Platte/Winner Bridge Pre-Bid Meeting**

Date: July 7, 2026

Time: 1:30 – 3:30 PM (CST)

Meeting ID: 228 438 244 171 169

Additional instructions regarding the meeting format will be provided at the beginning of the meeting.

We look forward to seeing you there!

Sincerely,  
SD DOT

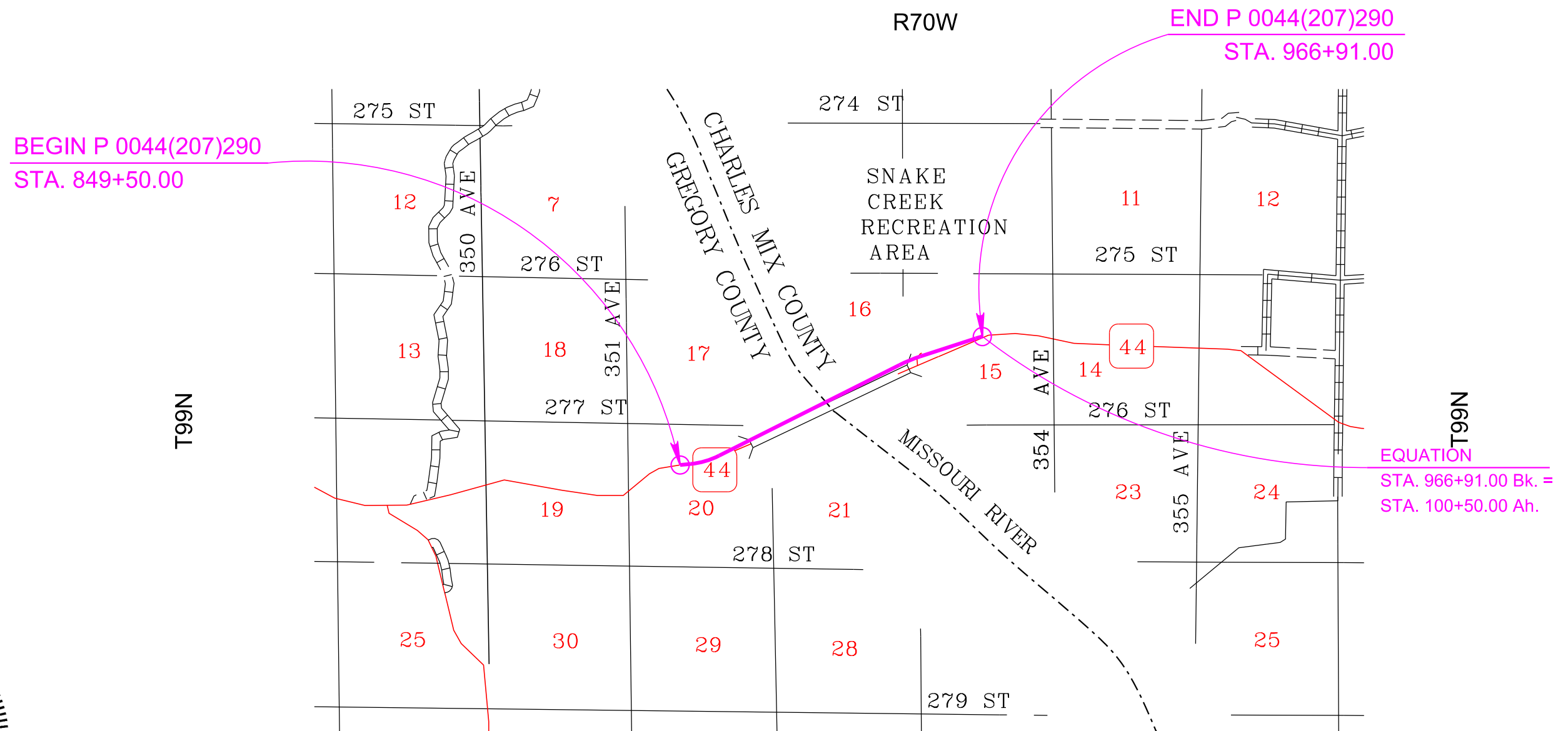
# SECTION D: EROSION AND SEDIMENT CONTROL PLANS

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT P 0044(207)290	SHEET D1	TOTAL SHEETS D30
Plotting Date: 1/3/2024			

## INDEX OF SHEETS

- D1 General Layout with Index
- D2-D6 Estimate with General Notes and Tables
- D7-D10 Stormwater Pollution Prevention Plan Checklist
- D11 Erosion and Sediment Control Legend
- D12-D25 Erosion and Sediment Control Plan Sheets
- D26 Construction Entrance Detail
- D27-D30 Standard Plates



Plot Scale - 1:200

Plotted From - mbrua



File - ...12019190604\CAD\TitleD.dgn



**SECTION D ESTIMATE OF QUANTITIES**

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E1690	Remove Sediment	12.3	CuYd
110E1700	Remove Silt Fence	1,488	Ft
230E0010	Placing Topsoil	34,000	CuYd
730E0210	Type F Permanent Seed Mixture	1,586	Lb
731E0200	Fertilizing	45.73	Ton
732E0100	Mulching	130.6	Ton
732E0300	Bonded Fiber Matrix	18.0	Ton
734E0103	Type 3 Erosion Control Blanket	28,100	SqYd
734E0132	Type 2 Turf Reinforcement Mat	365.0	SqYd
734E0154	12" Diameter Erosion Control Wattle	5,700	Ft
734E0165	Remove and Reset Erosion Control Wattle	1,425	Ft
734E0325	Surface Roughening	8.8	Acre
734E0510	Shaping for Erosion Control Blanket	4,973	Ft
734E0602	Low Flow Silt Fence	5,700	Ft
734E0604	High Flow Silt Fence	250	Ft
734E0610	Mucking Silt Fence	413	CuYd
734E0620	Repair Silt Fence	1,488	Ft
734E0630	Floating Silt Curtain	1,170	Ft
900E1310	Concrete Washout Facility	1	Each
900E1320	Construction Entrance	4	Each

**PLACING TOPSOIL**

The thickness will be approximately 4 inches within the right-of-way and 6 inches on temporary easements.

The estimated amount of topsoil to be placed is as follows:

Station	to	Station	Topsoil (CuYd)
848+00 (Begin)		875+20 (End)	11,500
932+44 (Begin)		101+68 (End)	22,500
Total:			34,000

**MYCORRHIZAL INOCULUM**

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 a minimum 25% the fungal species *Rhizophagus intraradices*. The remaining 75% may include other endomycorrhizal fungal species.

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 unit price per pound for the corresponding permanent seed mixture.

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

<u>Product</u>	<u>Manufacturer</u>
MycosApply	Mycorrhizal Applications, Inc. Grants Pass, OR Phone: 1-866-476-7800 <a href="http://www.mycorrhizae.com">www.mycorrhizae.com</a>
AM 120 Multi Species Blend	Reforestation Technologies Int. Gilroy, CA Phone: 1-800-784-4769 <a href="http://www.reforest.com">www.reforest.com</a>
LALRISE Prime and Max WP	Lallemand Specialties Inc. Milwaukee, WI Phone: 1-844-590-7781 <a href="http://www.lallemandplantcare.com">www.lallemandplantcare.com</a>

**FOR BIDDING PURPOSES ONLY**

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0044(207)290	D2	D30

Rev 02/12/2024 MJB

**FERTILIZING**

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:

<u>Product</u>	<u>Manufacturer</u>
Sustane	Sustane Corporate Headquarters Cannon Falls, Minnesota Phone: 1-800-352-9245 <a href="http://www.sustane.com">www.sustane.com</a>
Perfect Blend	Perfect Blend, LLC Bellevue, WA Phone: 1-866-456-8890 <a href="http://www.perfect-blend.com">www.perfect-blend.com</a>
Nature Safe	Nature Safe Fertilizers Irving, TX Phone: 1-605-759-5622  <a href="http://www.naturesafe.com">www.naturesafe.com</a>



**PERMANENT SEEDING**

The areas to be seeded consist of all newly graded areas within the project limits except for the top of roadways, temporary easements under cultivation, and areas designated to be sod.

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; Winter Wheat: August through November		10
Total:		26

**SURFACE ROUGHENING**

Surface roughening will be done after topsoil placement and before permanent seeding, fertilizing, and mulching applications. Refer to Standard Plate 734.25 for details.

**TABLE OF SURFACE ROUGHENING**

Station	Location	Area (Acre)
871+52 to 876+15 R	Disturbed Area	0.9
958+92 to 963+41 L	Disturbed Area	2.4
962+15 to 101+20 R	Disturbed Area	5.5
Total:		8.8

**MULCHING (GRASS HAY OR STRAW)**

An additional 2 tons/acre 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.

If the Contractor uses a no-till drill, mulch may be applied prior to seeding and the mulch can then be punched into the soil by the no-till drill. If the Contractor uses this process, the no-till drill seeding will be completed immediately following the mulch application and the mulch will be punched into the soil at a 3-inch depth.

**TABLE OF MULCHING (GRASS HAY OR STRAW)**

Station	Location	Quantity (Ton)
848+00 (Begin) to 875+20 (End)	Inslope/Backslope/Ditch	48.0
932+44 (Begin) to 101+68 (End)	Inslope/Backslope/Ditch	56.5
Total Quantity for Temporary Stabilization:		26.1
Total Quantity for Permanent Stabilization:		104.5
Total:		130.6

**BONDED FIBER MATRIX**

Bonded fiber matrix will be hydraulically applied to the areas listed in the table and any other areas deemed necessary by the Engineer.

The Contractor will use a bonded fiber matrix from the approved products list, or an approved equal. The approved product list for bonded fiber matrix may be viewed at the following internet site:

<http://apps.sd.gov/HC60ApprovedProducts/main.aspx>

**TABLE OF BONDED FIBER MATRIX**

Station	Location	Quantity (Tons)
871+52 to 876+15 R	Disturbed Area	1.8
958+92 to 963+41 L	Disturbed Area	4.8
962+15 to 101+20 R	Disturbed Area	11.0
Additional Quantity:		0.4
Total:		18.0

**EROSION CONTROL WATTLE**

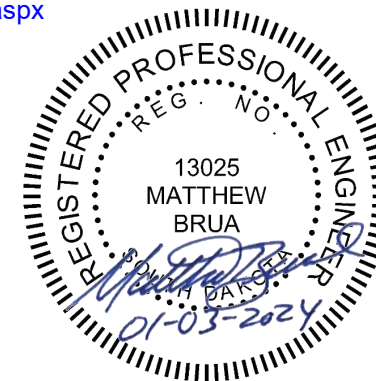
Erosion control wattles for restraining the flow of runoff and sediment will be installed at locations noted in the table and at locations determined by the Engineer during construction. Refer to Standard Plate 734.06 for details.

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

Erosion control wattles will remain on the project to decompose.

The erosion control wattle provided will be from the approved product list. The approved product list for erosion control wattle may be viewed at the following internet site:

<http://apps.sd.gov/HC60ApprovedProducts/main.aspx>



**FOR BIDDING PURPOSES ONLY**

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0044(207)290	D3	D30

**TABLE OF EROSION CONTROL WATTLE**

Station	Location	Diameter (Inch)	Quantity (Ft)
<b>SD 44</b>			
848+02 to 849+43 R	Backslope	12	141
848+65 to 849+41 L	Backslope	12	76
849+41 to 854+03 L	Backslope	12	462
849+43 to 854+17 R	Backslope	12	474
854+03 to 855+13 L	Backslope	12	114
855+13 to 855+49 L	Backslope	12	37
855+49 to 856+08 L	Backslope	12	59
856+08 to 856+98 L	Backslope	12	97
856+98 to 859+79 L	Backslope	12	281
859+79 to 860+28 L	Backslope	12	50
860+28 to 861+11 L	Backslope	12	83
861+11 to 861+32 L	Backslope	12	22
861+32 to 866+21 L	Backslope	12	489
871+92 R	Ditch	12	15
873+64 R	Ditch	12	15
875+12 R	Ditch	12	15
937+24 R	Ditch	12	30
938+76 R	Ditch	12	30
940+27 R	Ditch	12	30
941+78 R	Ditch	12	30
943+30 R	Ditch	12	30
944+80 R	Ditch	12	30
946+30 R	Ditch	12	30
937+36 L	Ditch	12	30
938+84 L	Ditch	12	30
940+32 L	Ditch	12	30
941+80 L	Ditch	12	30
943+28 L	Ditch	12	30
944+78 L	Ditch	12	30
946+28 L	Ditch	12	30
947+87 L	Ditch	12	30
948+87 L	Ditch	12	30
949+87 L	Ditch	12	30
950+87 L	Ditch	12	30
951+87 L	Ditch	12	30
952+87 L	Ditch	12	30
953+87 L	Ditch	12	30
954+87 L	Ditch	12	30
955+87 L	Ditch	12	30
956+62 L	Ditch	12	30
957+37 L	Ditch	12	30
958+12 L	Ditch	12	30
958+87 L	Ditch	12	30
959+62 L	Ditch	12	30
960+38 L	Ditch	12	30
961+13 L	Ditch	12	30



**FOR BIDDING PURPOSES ONLY**

Station	Location	Diameter (Inch)	Quantity (Ft)
961+88 L	Ditch	12	30
962+38 L	Ditch	12	30
962+88 L	Ditch	12	30
963+38 L	Ditch	12	30
963+88 L	Ditch	12	30
964+38 L	Ditch	12	30
964+88 L	Ditch	12	30
948+21 R	Ditch	12	30
949+17 R	Ditch	12	30
949+92 R	Ditch	12	30
950+66 R	Ditch	12	30
951+41 R	Ditch	12	30
952+16 R	Ditch	12	30
952+91 R	Ditch	12	30
953+66 R	Ditch	12	30
954+41 R	Ditch	12	30
955+16 R	Ditch	12	30
955+91 R	Ditch	12	30
956+66 R	Ditch	12	30
957+41 R	Ditch	12	30
959+04 R	Ditch	12	30
959+79 R	Ditch	12	30
960+54 R	Ditch	12	30
961+29 R	Ditch	12	30
962+04 R	Ditch	12	30
962+79 R	Ditch	12	30
<u>GFP Access</u>			
50+69 to 51+06 L *	Backslope	12	120
51+06 to 52+25 L	Backslope	12	119
52+25 to 54+64 L	Backslope	12	239
<u>House</u>			
34+82 L	Ditch	12	30
32+89 R	Ditch	12	30
33+89 R	Ditch	12	30
34+73 R	Ditch	12	30
<u>Park Drive North</u>			
5+93 L	Ditch	12	30
7+42 L	Ditch	12	30
7+92 L	Ditch	12	30
8+42 L	Ditch	12	30
8+92 L	Ditch	12	30
6+00 R	Ditch	12	30
7+36 R	Ditch	12	30
7+86 R	Ditch	12	30
8+36 R	Ditch	12	30
8+86 R	Ditch	12	30
<u>Park Drive South</u>			
15+36 L	Ditch	12	30
15+90 L	Ditch	12	30
16+76 L	Ditch	12	30
17+76 L	Ditch	12	30

Station	Location	Diameter (Inch)	Quantity (Ft)
18+76 L	Ditch	12	30
19+76 L	Ditch	12	30
21+20 L	Ditch	12	30
15+80 R	Ditch	12	30
16+72 R	Ditch	12	30
17+72 R	Ditch	12	30
18+72 R	Ditch	12	30
19+72 R	Ditch	12	30
20+52 R	Ditch	12	30
21+20 R	Ditch	12	30
<u>Shop</u>			
40+53 L	Ditch	12	30
41+09 L	Ditch	12	30
41+14 R	Ditch	12	30
41+57 R	Ditch	12	30
41+99 R	Ditch	12	30
42+39 R	Ditch	12	30
		Additional Quantity:	12      92
Total:			5,700

**LOW FLOW SILT FENCE**

The low flow silt fence fabric provided will be from the approved product list. The approved product list for low flow silt fence may be viewed at the following internet site:

<http://apps.sd.gov/HC60ApprovedProducts/main.aspx>

Low flow silt fence will be placed at the locations noted in the table and at locations that will minimize siltation of adjacent streams, lakes, dams, or drainage areas as determined by the Engineer during construction. Refer to Standard Plate 734.04 for details.

An additional quantity of Low Flow Silt Fence has been added to the Estimate of Quantities for temporary sediment control.

**TABLE OF LOW FLOW SILT FENCE**

Station	Location	Quantity (Ft)
854+70 to 862+40 R	Perimeter Control	900
866+42 to 871+09 R	Perimeter Control	625
871+65 to 873+50 R	Perimeter Control	200
872+25 to 875+30 L	Perimeter Control	325
873+75 to 876+06 R	Perimeter Control	275
875+07 L to 876+96 R	Perimeter Control	330
931+66 R to 934+77 L	Perimeter Control	705
958+93 to 963+10 L	Perimeter Control	900
964+75 to 100+55 R	Perimeter Control	400
966+35 to 100+85 L	Perimeter Control	100
9+15 to 10+31 R	Perimeter Control	160
9+36 to 10+31 L	Perimeter Control	145
41+48 to 45+37 L	Perimeter Control	615
Additional Quantity:		20
Total:		5,700

**HIGH FLOW SILT FENCE**

The high flow silt fence fabric provided will be from the approved product list. The approved product list for high flow silt fence may be viewed at the following internet site:

<http://apps.sd.gov/HC60ApprovedProducts/main.aspx>

High flow silt fence will be placed at the locations noted in the table and at locations that will minimize siltation of adjacent streams, lakes, dams, or drainage areas as determined by the Engineer during construction. Refer to Standard Plate 734.05 for details.

An additional quantity of high flow silt fence has been added to the Estimate of Quantities for temporary sediment control.



**TABLE OF HIGH FLOW SILT FENCE**

Station	Location	Quantity (Ft)
855+18 R	Inlet End of Pipe	18
855+92 L	Inlet End of Pipe	18
860+93 L	Inlet End of Pipe	18
866+62 L	Inlet End of Pipe	18
871+86 – 472' R	Inlet End of Pipe	18
947+69 L	Inlet End of Pipe	18
948+58 – 91' R	Inlet End of Pipe	18
958+93 R	Inlet End of Pipe	18
4+85 L	Inlet End of Pipe	18
6+35 L	Inlet End of Pipe	18
6+37 – 70' R	Inlet End of Pipe	18
15+52 R	Inlet End of Pipe	18
Additional Quantity:		34
Total:		250

**FLOATING SILT CURTAIN**

Floating silt curtains will be installed at locations noted in the table and at locations determined by the Engineer during construction.

The Contractor will determine the water depth and other waterway characteristics such as stream flow velocity and seek technical advice from the manufacturer before ordering the floating silt curtain so that the floating silt curtain installed is the correct type for the individual sites.

The Contractor will install the floating silt curtain in accordance with the manufacturer's installation instructions or as directed by the Engineer.

The Contractor will install the floating silt curtain in accordance with the manufacturer's installation instructions or as directed by the Engineer. A list of known manufacturers of floating silt curtain is shown below for informational purpose. Contractors may also use Engineer approved floating silt curtain from manufacturers that are not included in the list.

ABASCO, LLC  
Humble, TX  
Phone: 1-281-466-1500  
[www.abasco.net](http://www.abasco.net)

Aer-Flo, Inc.  
Bradenton, FL  
Phone: 1-800-823-7356  
[www.aerflo.com](http://www.aerflo.com)

ACME Environmental  
Tulsa, OK  
Phone: 1-855-563-2666  
[www.acmeboom.com](http://www.acmeboom.com)

ENVIRO-USA, LLC  
Cape Canaveral, FL  
Phone: 1-321-222-9551  
[www.enviro-usa.com](http://www.enviro-usa.com)

Elastec/American Marine, Inc.  
Carmi, IL  
Phone: 1-618-382-2525  
[www.turbiditycurtains.com](http://www.turbiditycurtains.com)

Geo-Synthetics, LLC (GSI)  
Waukesha, WI  
Phone: 1-800-444-5523  
[www.geosynthetics.com](http://www.geosynthetics.com)

Parker Systems, Inc.  
Chesapeake, VA  
Phone: 1-866-472-7537  
[www.parkersystemsinc.com](http://www.parkersystemsinc.com)

**TABLE OF FLOATING SILT CURTAIN**

Station	Location	Quantity (Ft)
871+65 R to 873+50 R	Perimeter Control	200
873+75 R to 876+06 R	Perimeter Control	275
931+74 R to 934+81 L	Riverbank	695
Total:		1,170

**EROSION CONTROL BLANKET**

Erosion control blanket will be installed 20 feet wide at the locations noted in the table and at locations determined by the Engineer during construction.

The erosion control blanket provided will be from the approved product list. The approved product list for erosion control blanket may be viewed at the following internet site:

<http://apps.sd.gov/HC60ApprovedProducts/main.aspx>

An additional quantity of Type x Erosion Control Blanket has been added to the Estimate of Quantities for temporary erosion control.

**TABLE OF EROSION CONTROL BLANKET**

Station	Location	Type	Quantity (SqYd)
848+00 to 860+91 L	Ditch	3	2,832
848+00 to 855+18 R	Ditch	3	1,590
861+48 to 866+66 L	Ditch	3	1,149
862+41 to 866+73 R	Ditch	3	985
867+14 to 870+83 R	Ditch	3	2,427
871+52 to 876+15 R	Disturbed Area	3	4,295
959+48 to 963+35 L	Disturbed Area	3	3,330
962+15 to 101+07 R	Disturbed Area	3	9,425
50+55 to 54+40 L	Ditch	3	711
50+99 to 54+52 R	Ditch	3	787
7+11 to 9+15 R	Ditch	3	236
7+12 to 9+36 L	Ditch	3	233
40+40 to 41+35 L	Ditch	3	89
Additional Quantity:			11

Total Type 3 Erosion Control Blanket: 28,100

**SHAPING FOR EROSION CONTROL BLANKET**

The ditches will be shaped for the erosion control blanket as specified on Standard Plate 734.01.

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STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0044(207)290	D5	D30

**TURF REINFORCEMENT MAT**

Turf Reinforcement Mat will be installed at locations shown in the table at the widths specified, and at locations determined by the Engineer during construction. The Contractor will 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://apps.sd.gov/HC60ApprovedProducts/main.aspx>

Turf Reinforcement Mat will be installed in accordance with the manufacturer's installation instructions.

**TABLE OF TURF REINFORCEMENT MAT**

Station	Location	Width (Ft)	Type	Quantity (SqYd)
54+40 to 55+68 L	Ditch	20	2	182
54+52 to 55+39 R	Ditch	20	2	183

Total Type 2 Turf Reinforcement Mat: 365



**CONSTRUCTION ENTRANCE**

The Contractor will install a Construction Entrance at locations where there is a potential for mud tracking and sediment flow from the construction site and work area onto a paved public roadway.

It is the Contractor's option to use the SDDOT Construction Entrance (See SDDOT Construction Entrance notes and details), a product from the list provided in these notes, or other products or processes as approved by the Engineer during construction.

If the Contractor elects to use one of the products listed in the table, then the Contractor will install the construction entrance product in accordance with the manufacturer's installation instructions or as directed by the Engineer.

The Contractor will maintain the construction entrance such that mud tracking and sediment flow will not enter the roadway or adjacent drainage areas. The construction entrance will be routinely inspected, and the Contractor will repair or replace material as deemed necessary by the Engineer.

All costs for furnishing, installing, maintaining, and removal of the construction entrance including equipment, labor, materials, and incidentals will be included in the contract unit price per each for "Construction Entrance".

The following table is a list of known construction entrance products available for use:

<u>Product</u>	<u>Manufacturer</u>
Grizzly Rumble Grate (10' width and 24' length required)	Trackout Control, LLC Tempe, AZ Phone: 1-800-761-0056 <a href="http://www.trackoutcontrol.com">www.trackoutcontrol.com</a>
Pro Grid (12' width and 24' length including combination of grids and ramps required)	Pro-Tec Equipment, Inc. Charlotte, MI Phone: 1-800-292-1225 <a href="http://www.pro-tecequipment.com">www.pro-tecequipment.com</a>
Tracking Pad (12' width and 24' length (2 – 12'x12' pads) and 2 – 4'x4' turning flares)	Tracking Pads LLC Commerce City, CO Phone: 1-303-501-5640 <a href="http://www.trackingpads.com">www.trackingpads.com</a>
FODS Trackout Control Mat (12' width and 5 mats to get a 35' length)	FODS, LLC Denver, CO Phone: 1-844-200-3637 <a href="http://www.getfods.com">http://www.getfods.com</a>
DuraDeck and MegaDeck HD An adequate quantity is needed to prevent tires from becoming muddy (does not remove mud)	Signature Systems Group, LLC Flower Mound, TX Phone: 1-800-931-7301 <a href="https://www.signature-systems.com/">https://www.signature-systems.com/</a>
Track-Out Control Mat (10' width and 24' length required)	RubberForm Recycled Products, LLC Lockport, NY Phone: 1-716-478-0408 <a href="http://www.rubberform.com">www.rubberform.com</a>

**SDDOT CONSTRUCTION ENTRANCE**

If the SDDOT Construction Entrance is utilized, then the Contractor will install the SDDOT Construction Entrance in accordance with these notes and the detail drawings.

Pit run material will be obtained from a granular source and will conform to the following gradation:

<u>Sieve Size</u>	<u>Percent Passing</u>
6"	100%
#4	0-60%
#200	0-20%

The pit run material will be compacted to the satisfaction of the Engineer.

The aggregate for the granular material will conform to the following gradation requirements:

<u>Sieve Size</u>	<u>Percent Passing</u>
3"	100%
2 1/2"	90-100%
1 1/2"	25-60%
3/4"	0-10%
1/2"	0-5%

The granular material will be placed in 6" maximum lifts.

It is anticipated that the granular material will need to be periodically removed and replaced as it becomes inundated with mud and sediment.

The Reinforcement Fabric (MSE) will be in conformance with Section 831 of the Specifications. The Reinforcement Fabric (MSE) will be on the Approved

Products List for this material or will be certified by the supplier to meet this specification prior to installation.

The Reinforcement Fabric (MSE) should be kept as taut as possible prior to placing.

Equipment will not be allowed on the Reinforcement Fabric (MSE) until the first lift of granular material is in place.

All seams in the Reinforcement Fabric (MSE) will be overlapped at least 2' and shingled.

**CONCRETE WASHOUT AREA**

A concrete washout area will be installed on the project site at a location approved by the Engineer if concrete trucks deliver concrete to the site. No washout area is necessary if all concrete trucks will wash out at approved site constructed by the concrete supplier.

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
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**STORMWATER POLLUTION PREVENTION PLAN CHECKLIST**

*(The numbers left of the title headings are reference numbers to the GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES (Stormwater Permit))*

**5.3 (2): STAFF TRAINING/SWPPP IMPLEMENTATION**

To promote stormwater management awareness specific for this project, the Contractor's Erosion Control Supervisor should provide correspondence of how the SWPPP will be implemented. The Contractor's Erosion Control Supervisor is responsible for providing this information at the preconstruction meeting, and subsequently completing an attendance log, which should identify site-specific implementation of the SWPPP and the names of the personnel who attended the preconstruction meeting. Documentation of the preconstruction meeting will be filed with the SWPPP documents.

**5.3 (3): DESCRIPTION OF CONSTRUCTION ACTIVITIES**

- 5.3 (3a): Project Limits (See Title Sheet)
- 5.3 (3a): Project Description (See Title Sheet)
- 5.3 (4): Site Map(s) (See Title Sheet and Plans)
- Major Soil Disturbing Activities (check all that apply)
  - Clearing and grubbing
  - Excavation/borrow
  - Grading and shaping
  - Filling
  - Other (describe):
- 5.3 (3b): Total Project Area 77.8 acres
- 5.3 (3b): Total Area to be Disturbed 62 acres
- 5.3 (3c): Maximum Area Disturbed at One Time 62 acres
- 5.3 (3d): Existing Vegetative Cover (%) 70%
- 5.3 (3d): Description of Vegetative Cover Typical Missouri River corridor vegetation
- 5.3 (3e): Soil Properties: Silty Clays
- 5.3 (3f): Name of Receiving Water Body/Bodies Missouri River
- 5.3 (3g): Location of Construction Support Activity Areas

**5.3 (3h): ORDER OF CONSTRUCTION ACTIVITIES**

- Special sequencing requirements (see Section C).
- The Contractor will enter the Estimated Start Date.

Description	Estimated Start Date
Install stabilized construction entrance(s).	
Install perimeter protection where runoff may exit site.	
Install perimeter protection around stockpiles.	
Install channel and ditch bottom protection.	
Clearing and grubbing.	
Remove and stockpile topsoil.	
Stabilize disturbed areas with appropriate BMPs.	
Install inlet and culvert protection after completing storm drainage and other utility installations.	
Final grading.	
Final paving.	
Removal of protection devices.	
Reseed areas disturbed by removal activities.	

**5.3 (5): DESCRIPTION AND MAINTENANCE OF CONTROL MEASURES**

All controls will be maintained in good working order. Necessary repairs will be initiated within 24 hours of the site inspection report. Include the technical

reasoning for selecting each control. (check all that apply)

**FOR BIDDING PURPOSES ONLY**

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0044(207)290	D7	D30

**Perimeter Controls (See Detail Plan Sheets)**

Description	Estimated Start Date
<input type="checkbox"/> Natural Buffers (within 50 ft of Waters of State)	
<input checked="" type="checkbox"/> Silt Fence	
<input type="checkbox"/> Erosion Control Wattles	
<input type="checkbox"/> Temporary Berm / Windrow	
<input checked="" type="checkbox"/> Floating Silt Curtain	
<input checked="" type="checkbox"/> Stabilized Construction Entrances	
<input type="checkbox"/> Entrance/Exit Equipment Tire Wash	
<input type="checkbox"/> Other:	

**Structural Erosion and Sediment Controls**

Description	Estimated Start Date
<input checked="" type="checkbox"/> Silt Fence	
<input type="checkbox"/> Temporary Berm/Windrow	
<input checked="" type="checkbox"/> Erosion Control Wattles	
<input type="checkbox"/> Temporary Sediment Barriers	
<input type="checkbox"/> Erosion Bales	
<input type="checkbox"/> Temporary Slope Drain	
<input checked="" type="checkbox"/> Turf Reinforcement Mat	
<input checked="" type="checkbox"/> Riprap	
<input type="checkbox"/> Gabions	
<input type="checkbox"/> Rock Check Dams	
<input type="checkbox"/> Sediment Traps/Basins	
<input checked="" type="checkbox"/> Culvert Inlet Protection	
<input type="checkbox"/> Transition Mats	
<input type="checkbox"/> Median/Area Drain Inlet Protection	
<input type="checkbox"/> Curb Inlet Protection	
<input type="checkbox"/> Interceptor Ditch	
<input type="checkbox"/> Concrete Washout Facility	
<input type="checkbox"/> Work Platform	
<input type="checkbox"/> Temporary Water Barrier	
<input type="checkbox"/> Temporary Water Crossing	
<input type="checkbox"/> Permanent Stormwater Ponds	
<input type="checkbox"/> Permanent Open Vegetated Swales	
<input type="checkbox"/> Natural Depressions to allow for Infiltration	
<input type="checkbox"/> Sequential Systems that combine several practices	
<input type="checkbox"/> Other:	

**Dust Controls**

Description	Estimated Start Date
<input type="checkbox"/> Tarps & Wind impervious fabrics	
<input type="checkbox"/> Watering	
<input type="checkbox"/> Stockpile location/orientation	
<input type="checkbox"/> Dust Control Chlorides	
<input type="checkbox"/> Other	

**Dewatering BMPs**

Description	Estimated Start Date
<input type="checkbox"/> Sediment Basins	
<input type="checkbox"/> Dewatering bags	
<input type="checkbox"/> Weir tanks	
<input type="checkbox"/> Temporary Diversion Channel	
<input type="checkbox"/> Other:	

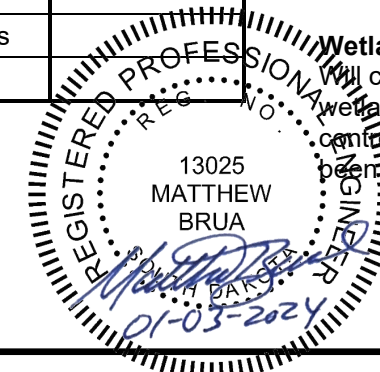
**Stabilization Practices (See Detail Plan Sheets)**

(Stabilization measures will begin the following work day whenever earth disturbing activity on any portion of the site has temporarily or permanently ceased. Temporary stabilization will be completed as soon as practicable but no later than 14 days after initiating soil stabilization activities (3.18))

Description	Estimated Start Date
<input type="checkbox"/> Vegetation Buffer Strips	
<input type="checkbox"/> Temporary Seeding (Cover Crop Seeding)	
<input checked="" type="checkbox"/> Permanent Seeding	
<input type="checkbox"/> Sodding	
<input type="checkbox"/> Planting (Woody Vegetation for Soil Stabilization)	
<input checked="" type="checkbox"/> Mulching (Grass Hay or Straw)	
<input type="checkbox"/> Fiber Mulching (Wood Fiber Mulch)	
<input type="checkbox"/> Soil Stabilizer	
<input checked="" type="checkbox"/> Bonded Fiber Matrix	
<input type="checkbox"/> Fiber Reinforced Matrix	
<input checked="" type="checkbox"/> Erosion Control Blankets	
<input checked="" type="checkbox"/> Surface Roughening (e.g. tracking)	
<input type="checkbox"/> Other:	

**Wetland Avoidance**

Will construction and/or erosion and sediment controls impinge on regulated wetlands? Yes  No  If yes, the structural and erosion and sediment controls have been included in the total project wetland impacts and have been included in the 404 permit process with the USACE.



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**5.3 (6): PROCEDURES FOR INSPECTIONS**

- Inspections will be conducted at least once every 7 days.
- All controls will be maintained in good working order. Necessary repairs will be initiated within 24 hours of the site inspection report.
- Silt fence will be inspected for depth of sediment and for tears 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 1/3 of the height of the silt fence.
- 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 1/2 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 Erosion Control Supervisor are responsible for inspections. Maintenance and 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 instructions on DOT 298.

**5.3 (7): POST CONSTRUCTION STORMWATER MANAGEMENT**

Stormwater management will be handled by temporary controls outlined in "DESCRIPTION AND MAINTENANCE OF CONTROL MEASURES" above, and any permanent controls needed to meet permanent stormwater management needs in the post construction period will be shown in the plans and noted as permanent.

**5.3 (8): POLLUTION PREVENTION PROCEDURES**

**5.3 (8a): Spill Prevention and Response Procedures**

➤ **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/or 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.
- Hazardous Materials
  - Products will be kept in original containers unless the container is not resealable and provide secondary containment as applicable.
  - 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, de-greasing 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 stormwater system or stormwater treatment system.
- Potential pH-modifying materials such as: bulk cement, cement kiln dust, fly ash, new concrete washings, concrete pumping, residuals from concrete saw cutting (either wet or dry), and mixer washout waters will be collected on site and managed to prevent contamination of stormwater runoff.

➤ **Spill Control Practices**

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 cleanup 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 cleanup 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.

➤ **Spill Response**

The primary objective in responding to a spill is to quickly contain the material(s) and prevent or minimize migration into stormwater runoff and conveyance systems. If the release has impacted on-site stormwater, it is critical to contain the released materials on-site and prevent their release into receiving waters. If a spill of pollutants threatens stormwater 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.
- 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 SDDANR.
- Personnel with primary responsibility for spill response and cleanup 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.

**5.3 (8b): WASTE MANAGEMENT PROCEDURES**

➤ **Waste Disposal**

- All liquid waste materials will be collected and stored in approved sealed containers. All trash and construction debris from the site will be deposited in the approved containers. Containers will be serviced as necessary, and the trash will be hauled to an approved disposal site or licensed landfill. All onsite personnel will be instructed in the proper procedures for waste disposal and notices stating proper practices will be posted. The Contractor is responsible for ensuring waste disposal procedures are followed.

➤ **Hazardous Waste**

- All hazardous waste materials will be disposed of in a manner specified by local or state regulations or by the manufacturer. Site personnel will be instructed in these practices, and the Contractor will be responsible for seeing that these practices are followed.

➤ **Sanitary Waste**

- Portable sanitary facilities will be provided on all construction sites. Sanitary waste will be collected from the portable units which must be secured to prevent tipping and serviced in a timely manner by a licensed waste management Contractor or as required by any local regulations.



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**5.3 (9): CONSTRUCTION SITE POLLUTANTS**

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 heading "POLLUTION PREVENTION PROCEDURES" (check all that apply).

- Concrete and Portland Cement
- Detergents
- Paints
- Metals
- Bituminous Materials
- Petroleum Based Products
- Diesel Exhaust Fluid
- Cleaning Solvents
- Wood
- Cure
- Texture
- Chemical Fertilizers
- Other:

**Product Specific Practices**

▪ **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 stormwater. 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 facilities on the site. These areas must be self-contained and not connected to any stormwater outlet of the site. Upon completion of construction, the area at the washout facility will be properly stabilized.

**5.3 (10): NON-STORMWATER DISCHARGES**

The following non-stormwater discharges are anticipated during the course of this project (check all that apply).

- Discharges from water line flushing.
- Pavement wash-water, where no spills or leaks of toxic or hazardous materials have occurred.
- Uncontaminated ground water associated with dewatering activities.

**5.3 (11): INFEASIBILITY DOCUMENTATION**

If it is determined to be infeasible to comply with any of the requirements of the Stormwater Permit, the infeasibility determination must be thoroughly documented in the SWPPP.

**7.0: 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 SDDANR immediately **if any one of the following** conditions exists:
  - The release or spill threatens or is able to threaten waters of the state (surface water or ground water)
  - The release or spill causes an immediate danger to human health or safety
  - The release or spill exceeds 25 gallons
  - The release or spill causes a sheen on surface water
  - The release or spill of any substance that exceeds the ground water quality standards of ARSD Chapter 74:54:01
  - The release or spill of any substance that exceeds the surface water quality standards of ARSD Chapter 74:51:01
  - The release or spill of any substance that harms or threatens to harm wildlife or aquatic life
  - The release or spill is required to be reported according to Superfund Amendments and Reauthorization Act (SARA) Title III List of Lists, Consolidated List of Chemicals Subject to Reporting Under the Emergency Planning and Community Right to Know Act, US Environmental Protection Agency.
- To report a release or spill, call SDDANR at 605-773-3296 during regular office hours (8 a.m. to 5 p.m. Central Standard Time). To report the release after hours, on weekends or holidays, call South Dakota Emergency Management at 605-773-3231. Reporting the release to SDDANR does not meet any obligation for reporting to other state, local, or federal agencies. Therefore, you must also contact local authorities to determine the local reporting requirements for releases. A written report of the unauthorized release of any regulated substance, including quantity discharged, and the location of the discharge will be sent to SDDANR within 14 days of the discharge.



**FOR BIDDING PURPOSES ONLY**

**5.4: SWPPP 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 7.4 (1))

➤ **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**

The following personnel are duly authorized representatives and have signatory authority for modifications made to the SWPPP:

➤ **Contractor Information:**

- Prime Contractor Name: \_\_\_\_\_
- Contractor Contact Name: \_\_\_\_\_
- Address: \_\_\_\_\_
- \_\_\_\_\_
- City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_
- Office Phone: \_\_\_\_\_ Field: \_\_\_\_\_
- Cell Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

➤ **Erosion Control Supervisor**

- Name: \_\_\_\_\_
- Address: \_\_\_\_\_
- \_\_\_\_\_
- City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_
- Office Phone: \_\_\_\_\_ Field: \_\_\_\_\_
- Cell Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

➤ **SDDOT Project Engineer**

- Name: \_\_\_\_\_
- Business Address: \_\_\_\_\_
- Job Office Location: \_\_\_\_\_
- City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_
- Office Phone: \_\_\_\_\_ Field: \_\_\_\_\_
- Cell Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

➤ **SDDANR Contact Spill Reporting**

- Business Hours Monday-Friday (605) 773-3296
- Nights and Weekends (605) 773-3231

➤ **SDDANR Contact for Hazardous Materials.**

- (605) 773-3153

➤ **National Response Center Hotline**

- (800) 424-8802.

➤ **SDDANR Stormwater Contact Information**

- SDDANR Stormwater (800) 737-8676
- Surface Water Quality Program (605) 773-3351

**5.5: REQUIRED SWPPP MODIFICATIONS**

➤ **5.5 (1): Conditions Requiring SWPPP Modification**

The SWPPP must be modified, including the site map(s), in response to any of the following conditions:

- When a new operator responsible for implementation of any part the SWPPP begins work on the site.
- When changes to the construction plans, sediment and erosion control measures, or any best management practices on site that are no longer accurately reflected in the SWPPP. This includes changes made in response to corrective actions triggered by inspections.
- To reflect areas on the site map where operational control has been transferred (including the date of the transfer) or has been covered under a new permit since initiating coverage under this general permit.
- If inspections by site staff, local officials, SDDANR, or U.S. EPA determine that SWPPP modifications are necessary for compliance with the Stormwater Permit.
- To reflect any revisions to applicable federal, state, or local requirements that affect the control measures implemented at the site.
- If approved by the Secretary, to reflect any changes in chemical water treatment systems or controls, including the use of a different water treatment chemical, age rates, different areas, or methods of application.

➤ **5.5 (2): Deadlines for SWPPP Modification**

Any required revisions to the SWPPP must be completed within 7 calendar days following any of the items listed above.

➤ **5.5 (3): Documentation of Modifications to the Plan**

All SWPPP modification records are required to be maintained showing the dates of when the modification occurred. The records must include the name of the person authorizing each change and a brief summary of all changes.

➤ **5.5 (4): Certification Requirements**

All modifications made to the SWPPP must be signed and certified as required in Section 7.4.

➤ **5.5 (5): Required Notice to Other Operators**

If there are multiple operators at the site, the Contractor's Erosion Control Supervisor must notify each operator that may be impacted by the change to the SWPPP within 24 hours.











When modifications as described above occur, the SWPPP will be modified to provide appropriate protection to disturbed areas, all storm water structures, and adjacent waters. The SDDOT Project Engineer will modify the SWPPP using the DOT 298 form and drawings on the plan will be modified to reflect the needed changes. Copies of the DOT 298 forms and the SWPPP will be retained on site in a designated place for review throughout the course of the project. A copy of the DOT 298 form will be given to the Contractor Erosion Control Supervisor and a copy will be emailed to the SDDOT Environmental Section in accordance with the DOT 298 Form.



# EROSION AND SEDIMENT CONTROL LEGEND

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT P 0044(207)290	SHEET D11	TOTAL SHEETS D30
Plotting Date: 1/3/2024			

-  J-hook Silt Fence
-  High Flow Silt Fence at Pipe
-  Floating Silt Curtain
-  Erosion Control Wattles on Slopes
-  Erosion Control Wattles in Ditches
-  Bonded Fiber Matrix/ Fiber Reinforced Matrix
-  Type 3 Erosion Control Blanket
-  Type 2 Turf Reinforcement Mat
-  Surfacing Roughening
-  Type F Permanent Seed Mixture

## BEST MANAGEMENT PRACTICES

Best Management Practices (BMPs) are split into three categories and are to be used throughout construction.

### INITIAL PHASE

BMPs from the Legend shown as Orange Symbols on the Erosion and Sediment Control Plan Sheets are to be installed in the Initial Phase prior to earth disturbing activities and remain in place for the Intermediate Phase for temporary stabilization and in the Final Phase to achieve final stabilization.

### INTERMEDIATE PHASE

BMPs from the Legend shown as Blue Symbols on the Erosion and Sediment Control Plan Sheets are to be installed in the Intermediate Phase for temporary stabilization and remain in place in the Final Phase to achieve final stabilization.

### FINAL PHASE

BMPs from the Legend shown as Green Symbols on the Erosion and Sediment Control Plan Sheets are to be installed in the Final Phase to achieve final stabilization.

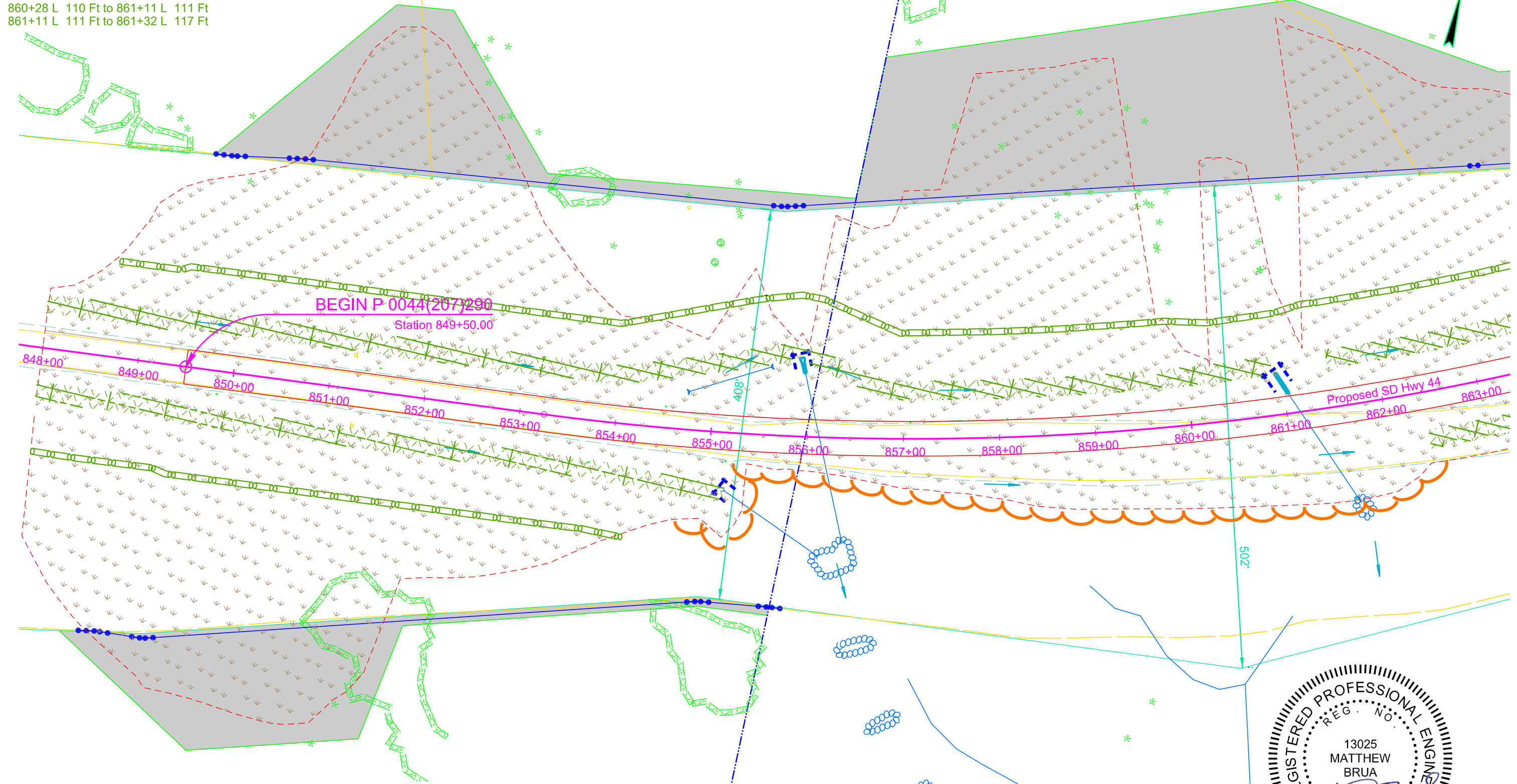


Install 12" Diameter Erosion Control Wattles  
at the following locations:  
 848+65 L 106 Ft to 849+41 L 110 Ft  
 849+41 L 110 Ft to 854+03 L 110 Ft  
 854+03 L 110 Ft to 855+13 L 141 Ft  
 855+13 L 141 Ft to 855+49 L 148 Ft  
 855+49 L 148 Ft to 856+08 L 151 Ft  
 856+08 L 151 Ft to 856+98 L 116 Ft  
 856+98 L 116 Ft to 859+79 L 117 Ft  
 859+79 L 117 Ft to 860+28 L 110 Ft  
 860+28 L 110 Ft to 861+11 L 111 Ft  
 861+11 L 111 Ft to 861+32 L 117 Ft

Install Type 3 Erosion Control Blanket  
in the highway ditch channel bottom  
at the following locations:  
 848+00 L to 860+91 L 2,832 SqYd  
 848+00 R to 855+18 R 1,590 SqYd

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT P 0044(207)290	SHEET D12	TOTAL SHEETS D30
Plotting Date: 1/3/2024			



Install 12" Diameter Erosion Control Wattles  
at the following locations:  
 848+02 R 111 Ft to 849+43 R 116 Ft  
 849+43 R 116 Ft to 854+17 R 120 Ft

Install High Flow Silt Fence at the following locations:  
 855+92 L Inlet end of pipe 18 Ft  
 860+93 L Inlet end of pipe 18 Ft  
 855+18 R Inlet end of pipe 18 Ft  
 Around topsoil stockpiles--quantity and location to be determined

Install Low Flow Silt Fence at the following locations:  
 854+70 R to 862+40 R Perimeter control 900 Ft

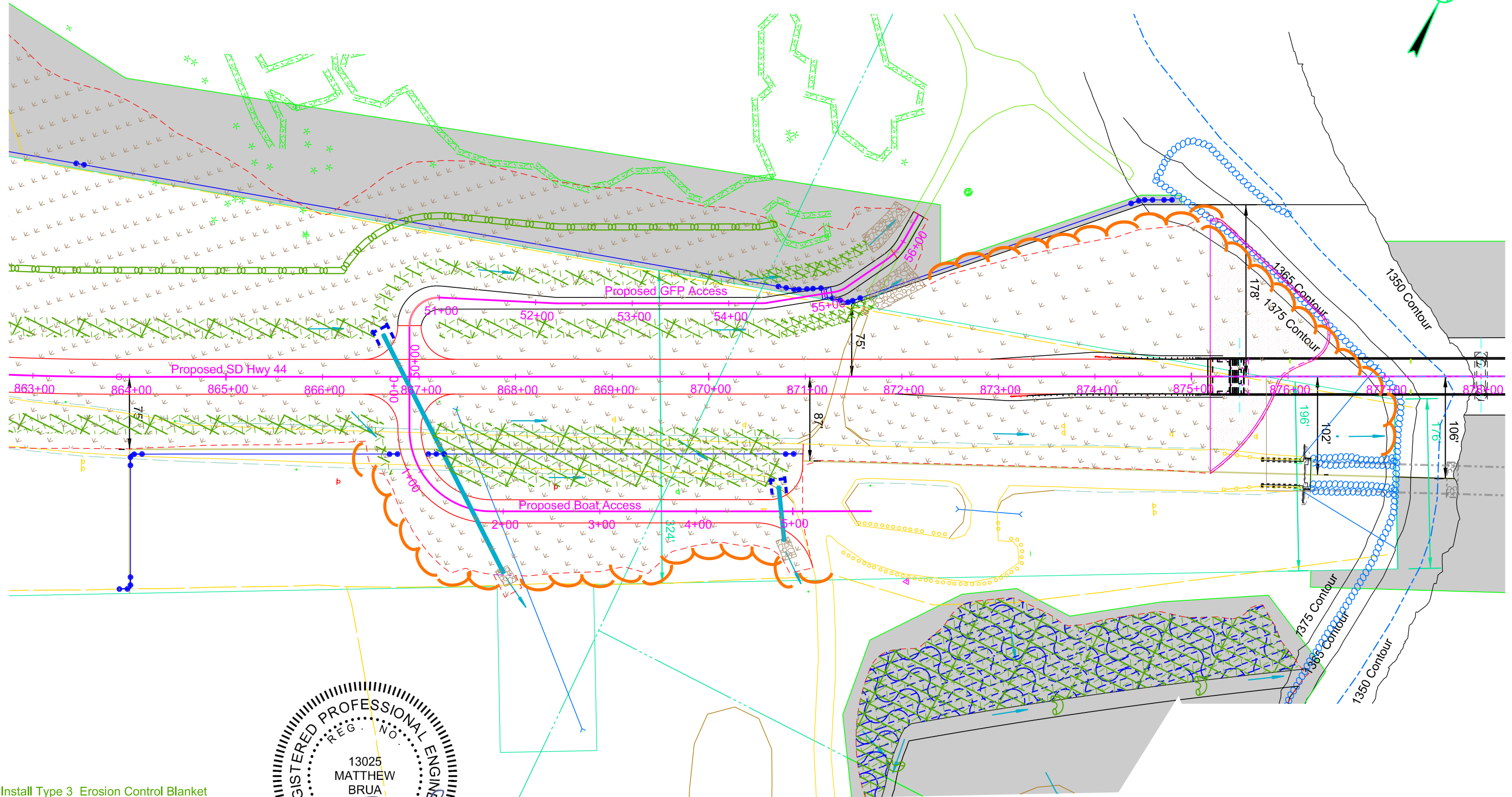


Install 12" Diameter Erosion Control Wattles  
at the following locations:  
861+32 L 117 Ft to 866+21 L 116 Ft

Install High Flow Silt Fence at the following locations:  
866+62 L Inlet end of pipe 18 Ft  
Around topsoil stockpiles--quantity and location to be determined

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT P 0044(207)290	SHEET D13	TOTAL SHEETS D30
Plotting Date: 1/3/2024			



Install Type 3 Erosion Control Blanket  
in the highway ditch channel bottom  
at the following locations:  
861+48 L to 866+66 L 1,149 SqYd  
862+41 R to 866+73 R 985 SqYd  
867+14 R to 870+83 R 2,427 SqYd



Install Low Flow Silt Fence at the following locations:  
872+25 L to 875+30 L Perimeter control 325 Ft  
875+07 L to 876+96 R Perimeter control 330 Ft  
866+42 R to 871+09 R Perimeter control 625 Ft



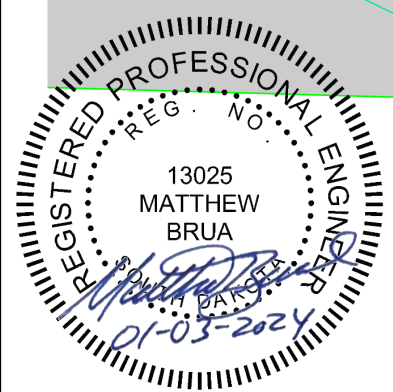
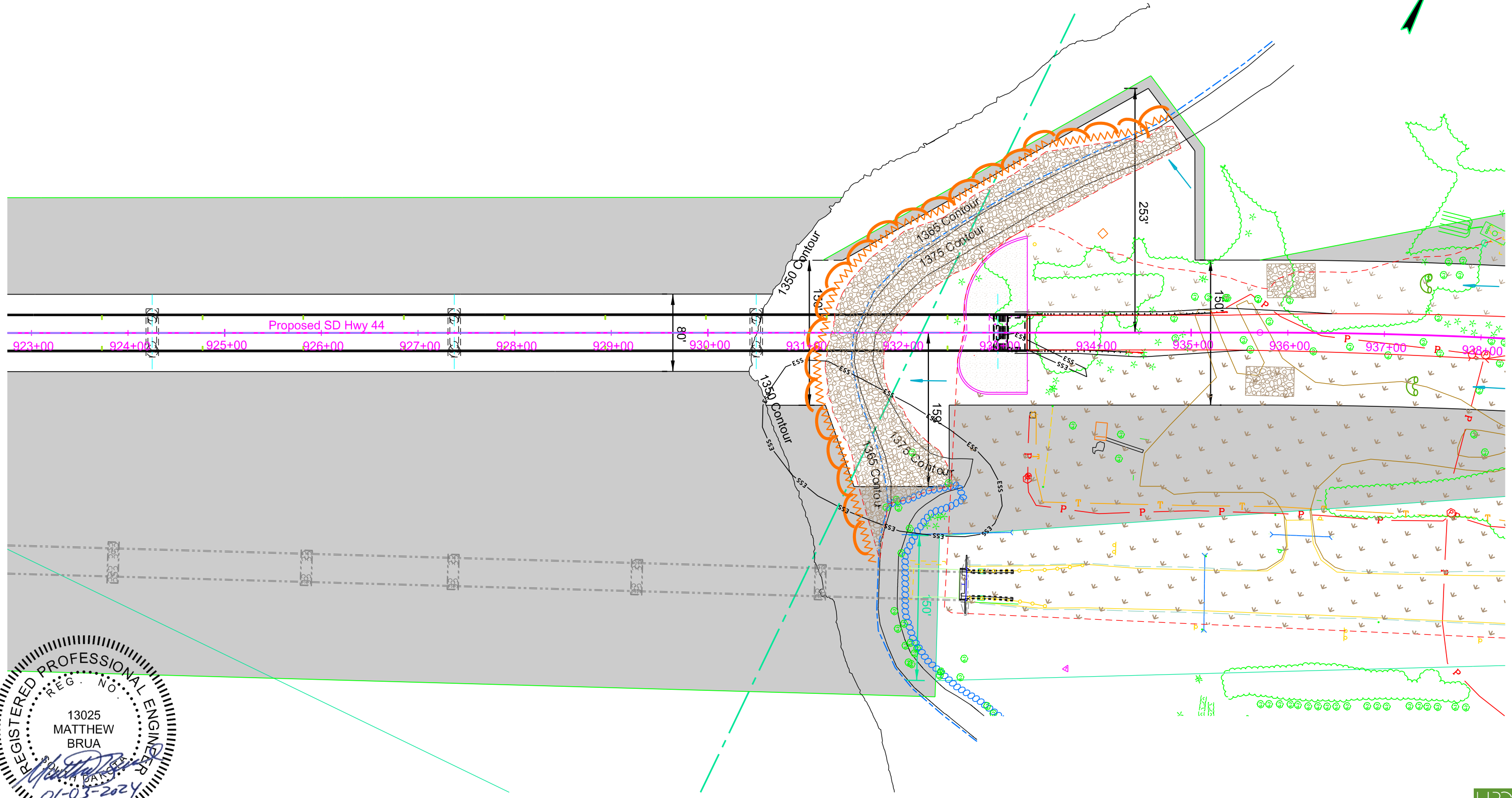
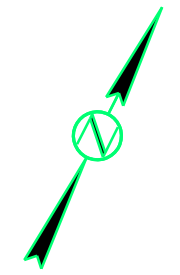
Install Low Flow Silt Fence at the following locations:  
931+66 R to 934+77 L Perimeter control 705 Ft

Install Floating Silt Curtain along the bank  
of the river at the following locations:  
931+74 R to 934+81 L 695 Ft

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0044(207)290	D14	D30

Plotting Date: 1/3/2024

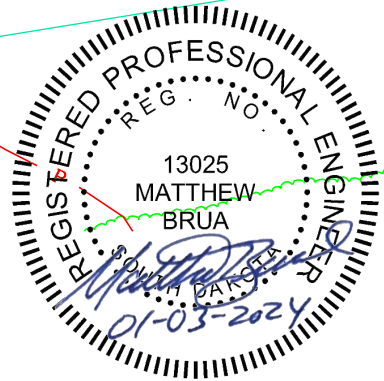
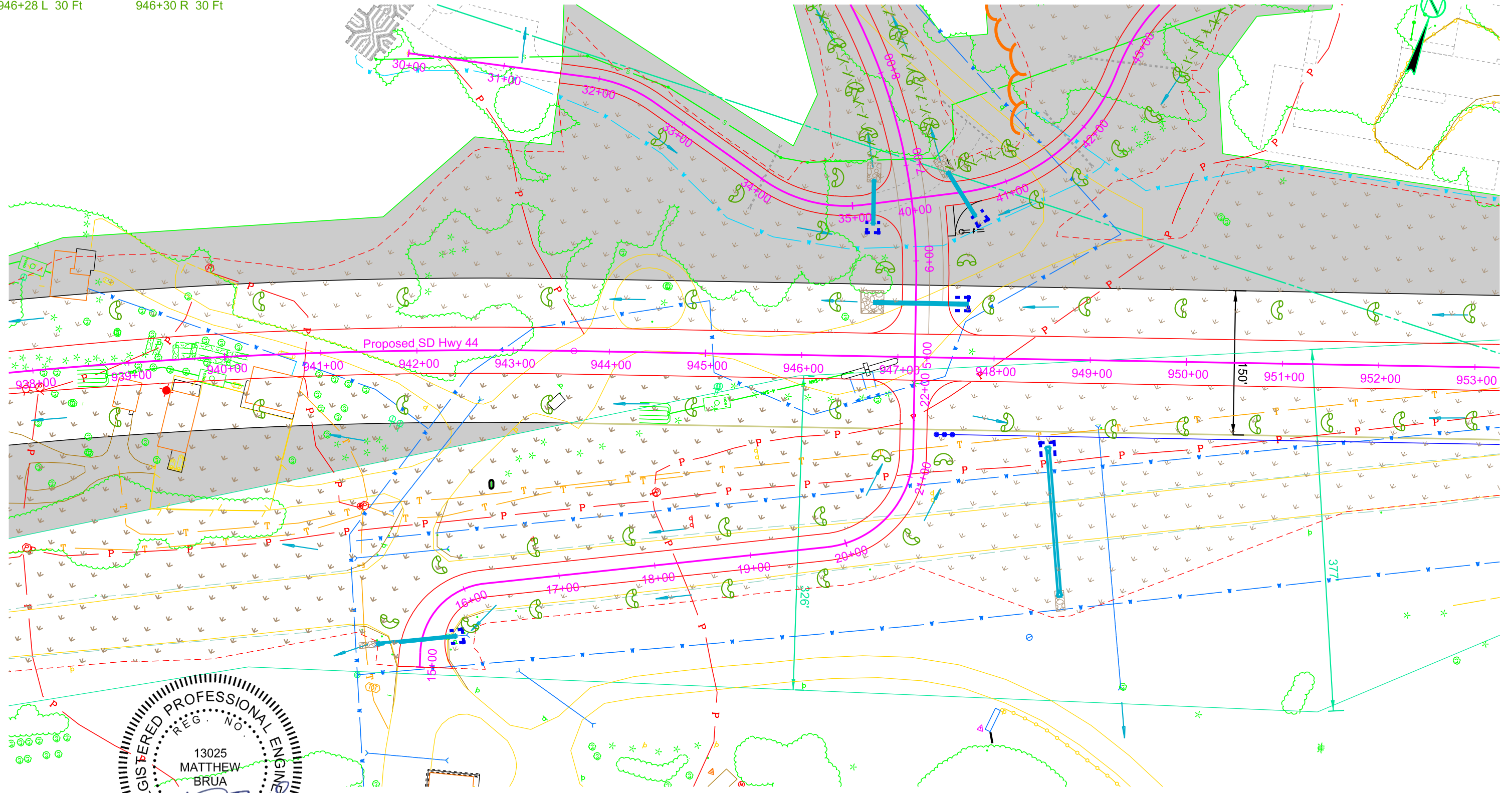


Install 12" Diameter Erosion Control Wattles  
across the highway ditch channel bottom  
at the following locations:  
 937+36 L 30 Ft      937+24 R 30 Ft  
 938+84 L 30 Ft      938+76 R 30 Ft  
 940+32 L 30 Ft      940+27 R 30 Ft  
 941+80 L 30 Ft      941+78 R 30 Ft  
 943+28 L 30 Ft      943+30 R 30 Ft  
 944+78 L 30 Ft      944+80 R 30 Ft  
 946+28 L 30 Ft      946+30 R 30 Ft

Install High Flow Silt Fence at the following locations:  
 947+69 L Inlet end of pipe 18 Ft  
 948+58 - 91' R Inlet end of pipe 18 Ft  
 Around topsoil stockpiles--quantity and location to be determined

**FOR BIDDING PURPOSES ONLY**

STATE OF SOUTH DAKOTA	PROJECT P 0044(207)290	SHEET D15	TOTAL SHEETS D30
Plotting Date: 1/3/2024			



Install 12" Diameter Erosion Control Wattles across the highway ditch channel bottom at the following locations:

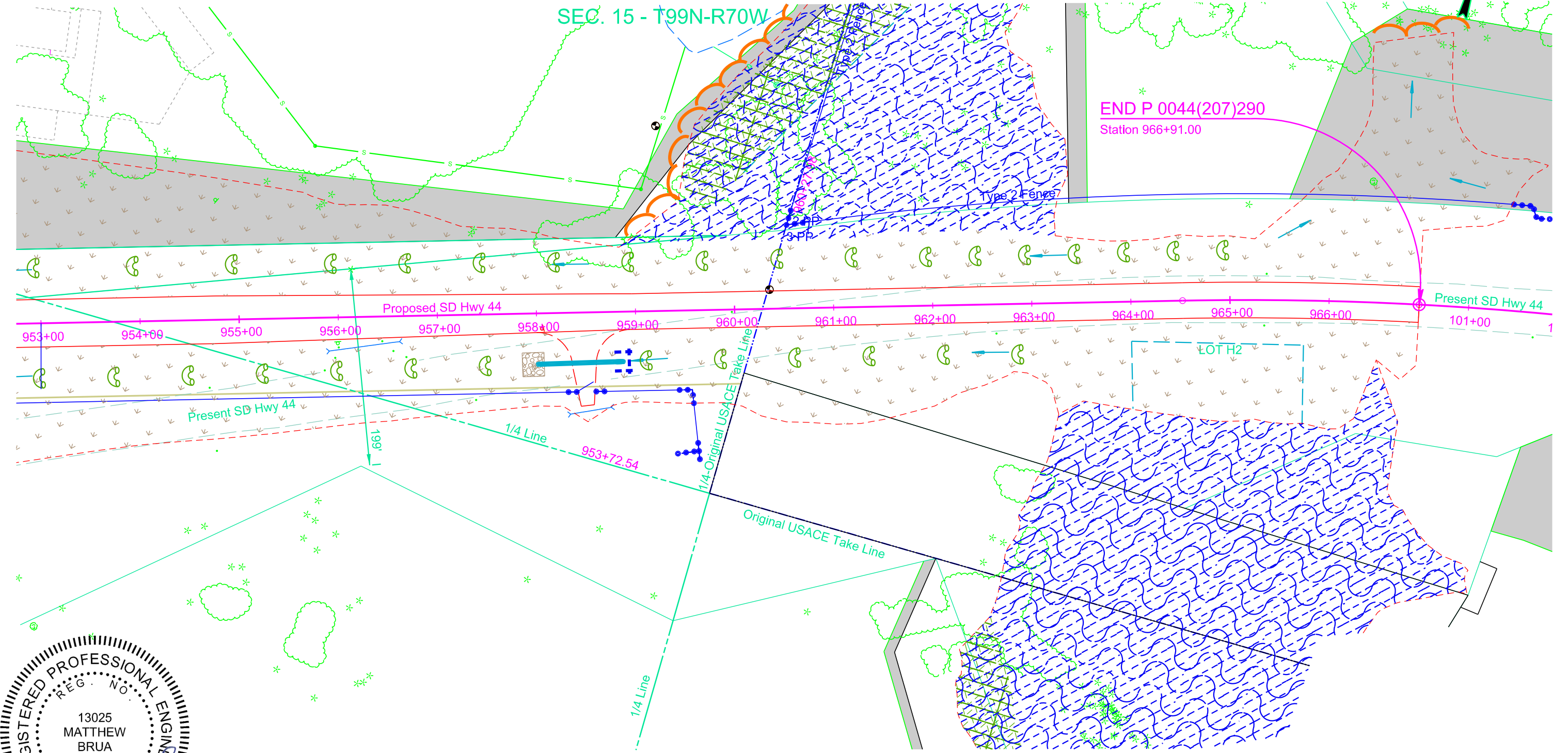
- |                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|
| 947+87 L 30 Ft | 957+37 L 30 Ft | 963+88 L 30 Ft | 953+66 R 30 Ft | 962+04 R 30 Ft |
| 948+87 L 30 Ft | 958+12 L 30 Ft | 964+38 L 30 Ft | 954+41 R 30 Ft | 962+79 R 30 Ft |
| 949+87 L 30 Ft | 958+87 L 30 Ft | 964+88 L 30 Ft | 955+16 R 30 Ft |                |
| 950+87 L 30 Ft | 959+62 L 30 Ft | 948+21 R 30 Ft | 955+91 R 30 Ft |                |
| 951+87 L 30 Ft | 960+38 L 30 Ft | 949+17 R 30 Ft | 956+66 R 30 Ft |                |
| 952+87 L 30 Ft | 961+13 L 30 Ft | 949+92 R 30 Ft | 957+41 R 30 Ft |                |
| 953+87 L 30 Ft | 961+88 L 30 Ft | 950+66 R 30 Ft | 959+04 R 30 Ft |                |
| 954+87 L 30 Ft | 962+38 L 30 Ft | 951+41 R 30 Ft | 959+79 R 30 Ft |                |
| 955+87 L 30 Ft | 962+88 L 30 Ft | 952+16 R 30 Ft | 960+54 R 30 Ft |                |
| 956+62 L 30 Ft | 963+38 L 30 Ft | 952+91 R 30 Ft | 961+29 R 30 Ft |                |

Install High Flow Silt Fence at the following locations:  
 958+93 R Inlet end of pipe 18 Ft  
 Around topsoil stockpiles--quantity and location to be determined

**FOR BIDDING PURPOSES ONLY**

STATE OF SOUTH DAKOTA	PROJECT P 0044(207)290	SHEET D16	TOTAL SHEETS D30
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Plotting Date: 1/3/2024  
 Rev 02/08/2023 MJB

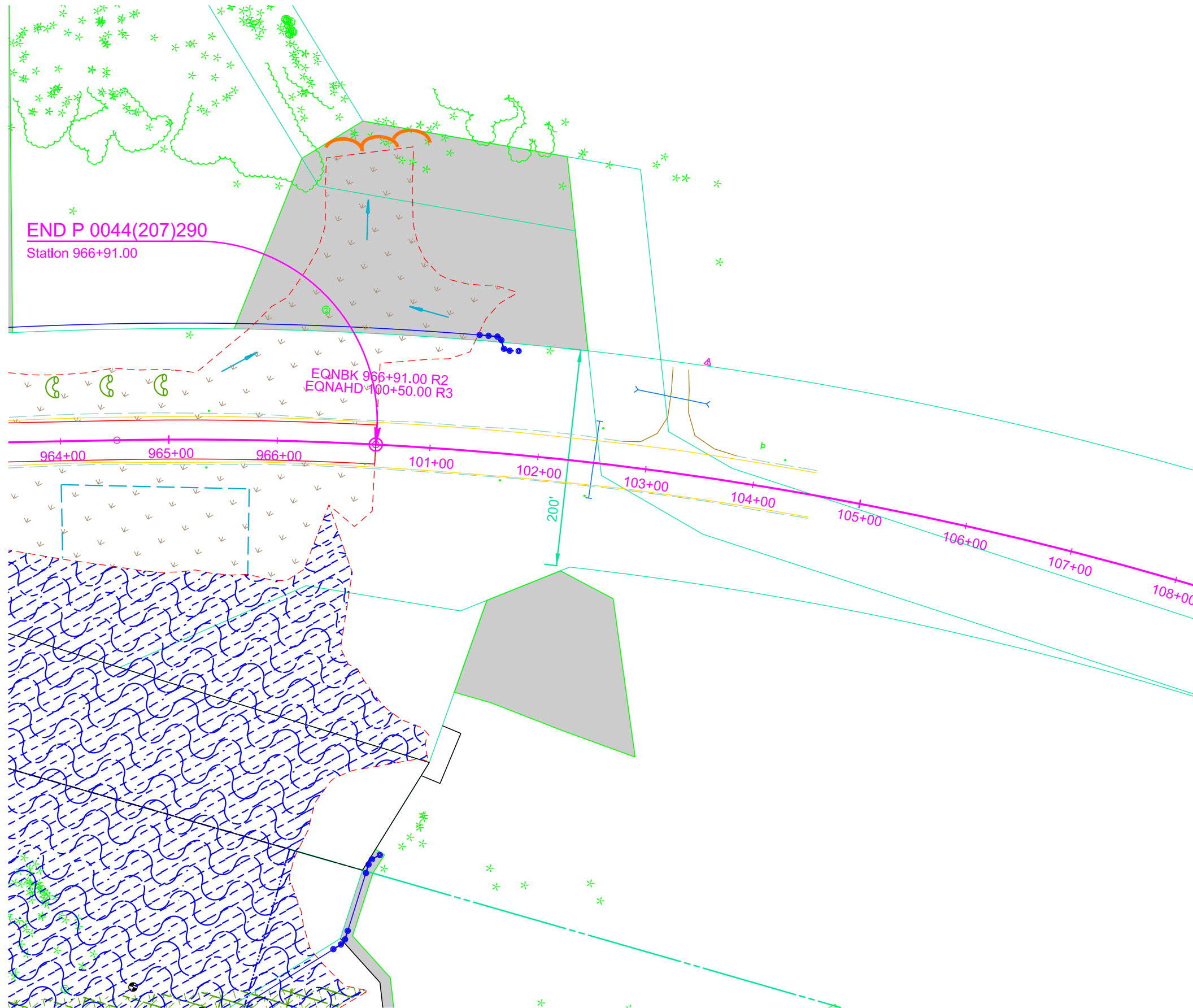


Install Low Flow Silt Fence at the following locations:  
966+35 L to 100+85 L Perimeter control 100 Ft

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0044(207)290	D17	D30

Plotting Date: 1/3/2024



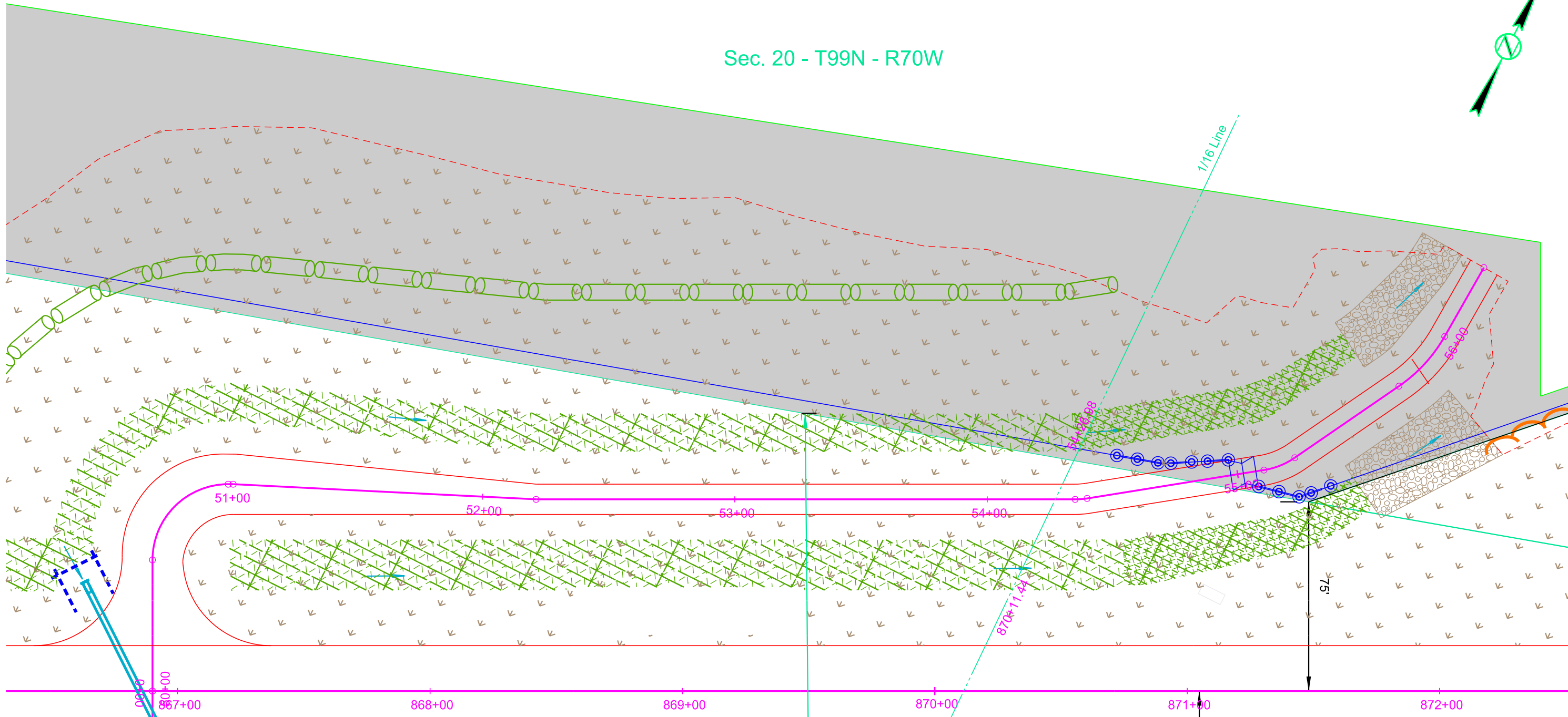
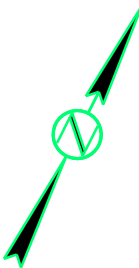


FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0044(207)290	D19	D30

Plotting Date: 1/3/2024

Sec. 20 - T99N - R70W



Install 12" Diameter Erosion Control Wattles at the following locations:  
 50+69 L 91 Ft to 51+06 L 91 Ft \*  
 51+06 L 91 Ft to 52+25 L 82 Ft  
 52+25 L 82 Ft to 54+64 L 80 Ft  
 \* 85 Ft Radius. Contractor to follow 50 Ft offset from adjacent ditch and field verify location.

Install Type 3 Erosion Control Blanket in the highway ditch channel bottom at the following locations:  
 50+55 L to 54+40 L 711 SqYd  
 50+99 R to 54+52 R 787 SqYd

Install Turf Reinforcement Mat in the highway ditch channel bottom at the following locations:  
 54+40 L to 55+68 L 182 SqYd  
 54+52 R to 55+39 R 183 SqYd



Install 12" Diameter Erosion Control Wattles  
across the highway ditch channel bottom  
at the following locations:  
34+82 L 30 Ft  
32+89 R 30 Ft  
33+89 R 30 Ft  
34+73 R 30 Ft

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
DAKOTA	P 0044(207)290	D20	D30

Plotting Date: 1/3/2024

### SEC. 15 - T99N-R70W

NW1/4

State of South Dakota  
(SD Game, Fish, and Parks)

Parcel 8

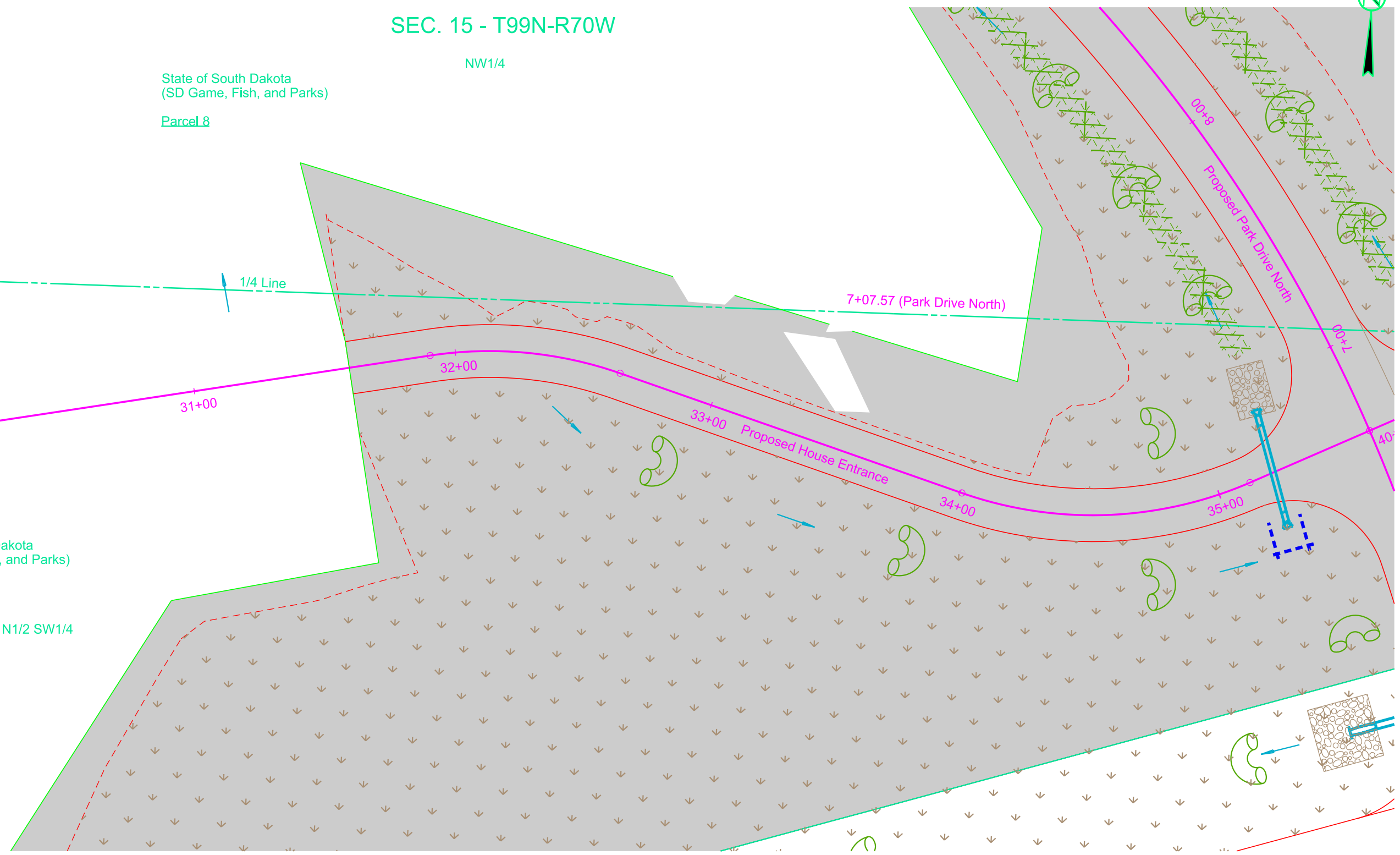
1/4 Line

7+07.57 (Park Drive North)

State of South Dakota  
(SD Game, Fish, and Parks)

Parcel 7

N1/2 SW1/4



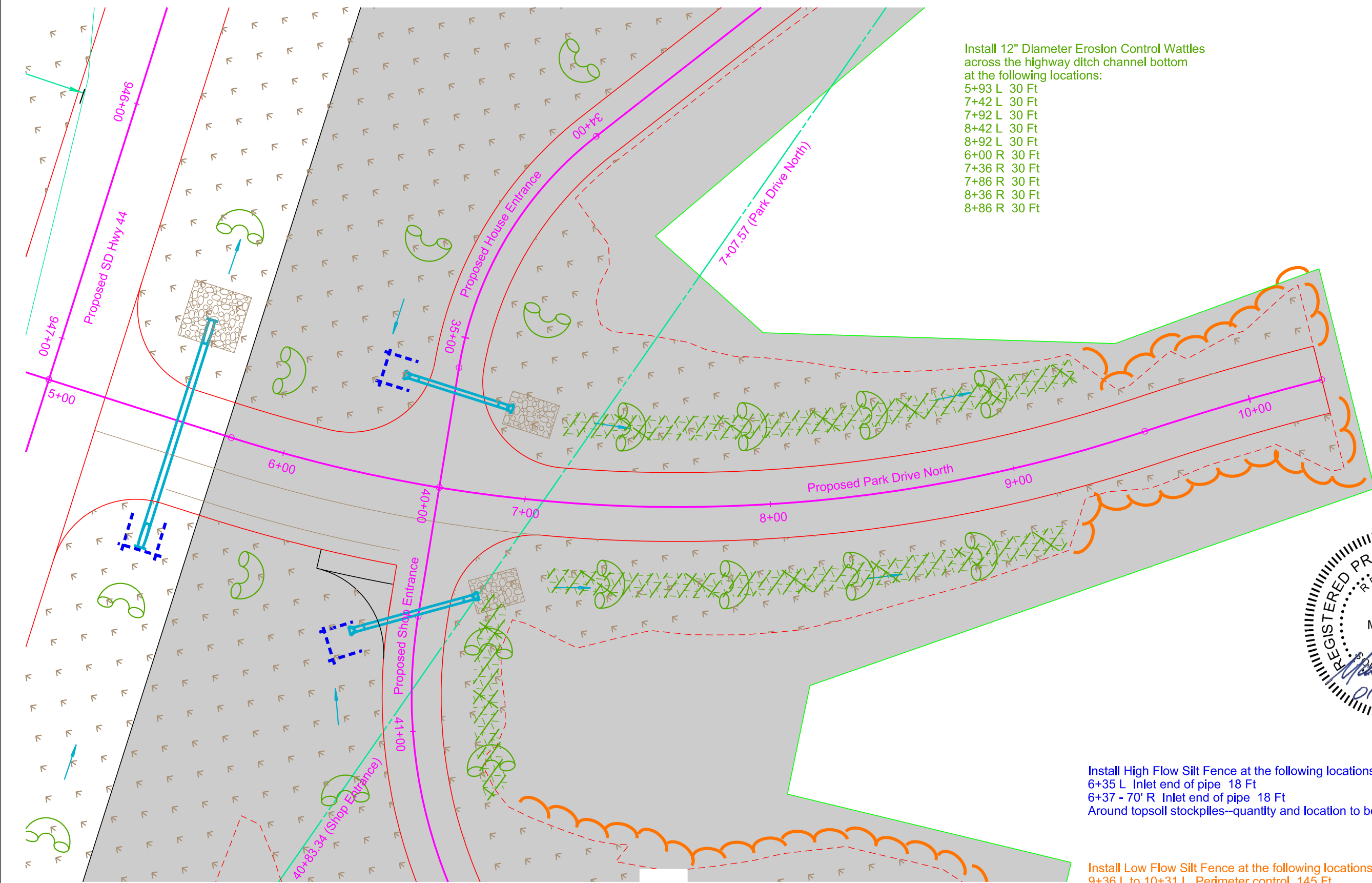
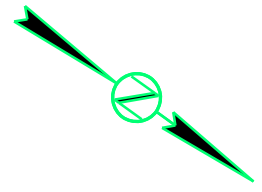
**FOR BIDDING PURPOSES ONLY**

Install Type 5 Erosion Control Blankets in the highway ditch channel bottom at the following locations:  
 7+12 L to 9+36 L 233 SqYd  
 7+11 R to 9+15 R 236 SqYd

Install 12" Diameter Erosion Control Wattles across the highway ditch channel bottom at the following locations:  
 5+93 L 30 Ft  
 7+42 L 30 Ft  
 7+92 L 30 Ft  
 8+42 L 30 Ft  
 8+92 L 30 Ft  
 6+00 R 30 Ft  
 7+36 R 30 Ft  
 7+86 R 30 Ft  
 8+36 R 30 Ft  
 8+86 R 30 Ft

Install High Flow Silt Fence at the following locations:  
 6+35 L Inlet end of pipe 18 Ft  
 6+37 - 70' R Inlet end of pipe 18 Ft  
 Around topsoil stockpiles--quantity and location to be determined

Install Low Flow Silt Fence at the following locations:  
 9+36 L to 10+31 L Perimeter control 145 Ft  
 9+15 R to 10+31 R Perimeter control 160 Ft

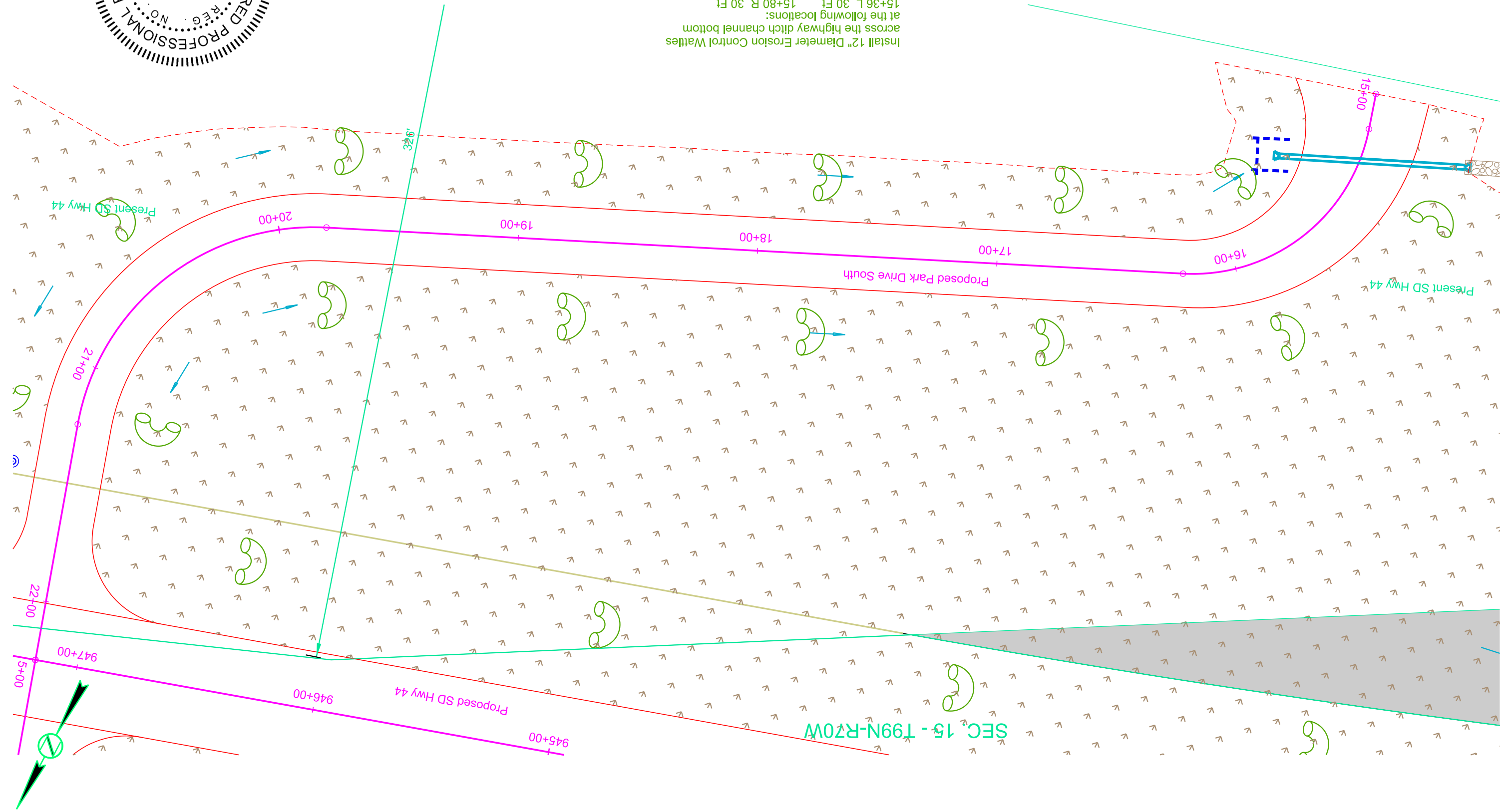




FOR BIDDING PURPOSES ONLY

Install 12" Diameter Erosion Control Wattles  
across the highway ditch channel bottom  
at the following locations:  
15+36 L 30 Ft 15+80 R 30 Ft  
15+90 L 30 Ft 16+72 R 30 Ft  
16+76 L 30 Ft 17+72 R 30 Ft  
17+76 L 30 Ft 18+72 R 30 Ft  
18+76 L 30 Ft 19+72 R 30 Ft  
19+76 L 30 Ft 20+52 R 30 Ft  
21+20 L 30 Ft 21+20 R 30 Ft

Install High Flow Silt Fence at the following locations:  
15+52 R Inlet end of pipe 18 Ft  
Around topsoil stockpiles--quantity and location to be determined



STATE OF SOUTH DAKOTA	PROJECT	P 0044(207)290	D22	D30
SHEET	TOTAL SHEETS			

Plotting Date: 1/3/2024

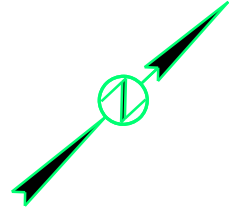
Install Type 3 Erosion Control Blanket  
in the highway ditch channel bottom  
at the following locations:  
40+40 L to 41+35 L 89 SqYd

Install 12" Diameter Erosion Control Wattles  
across the highway ditch channel bottom  
at the following locations:  
40+53 L 30 Ft    41+57 R 30 Ft  
41+09 L 30 Ft    41+99 R 30 Ft  
41+14 R 30 Ft    42+39 R 30 Ft

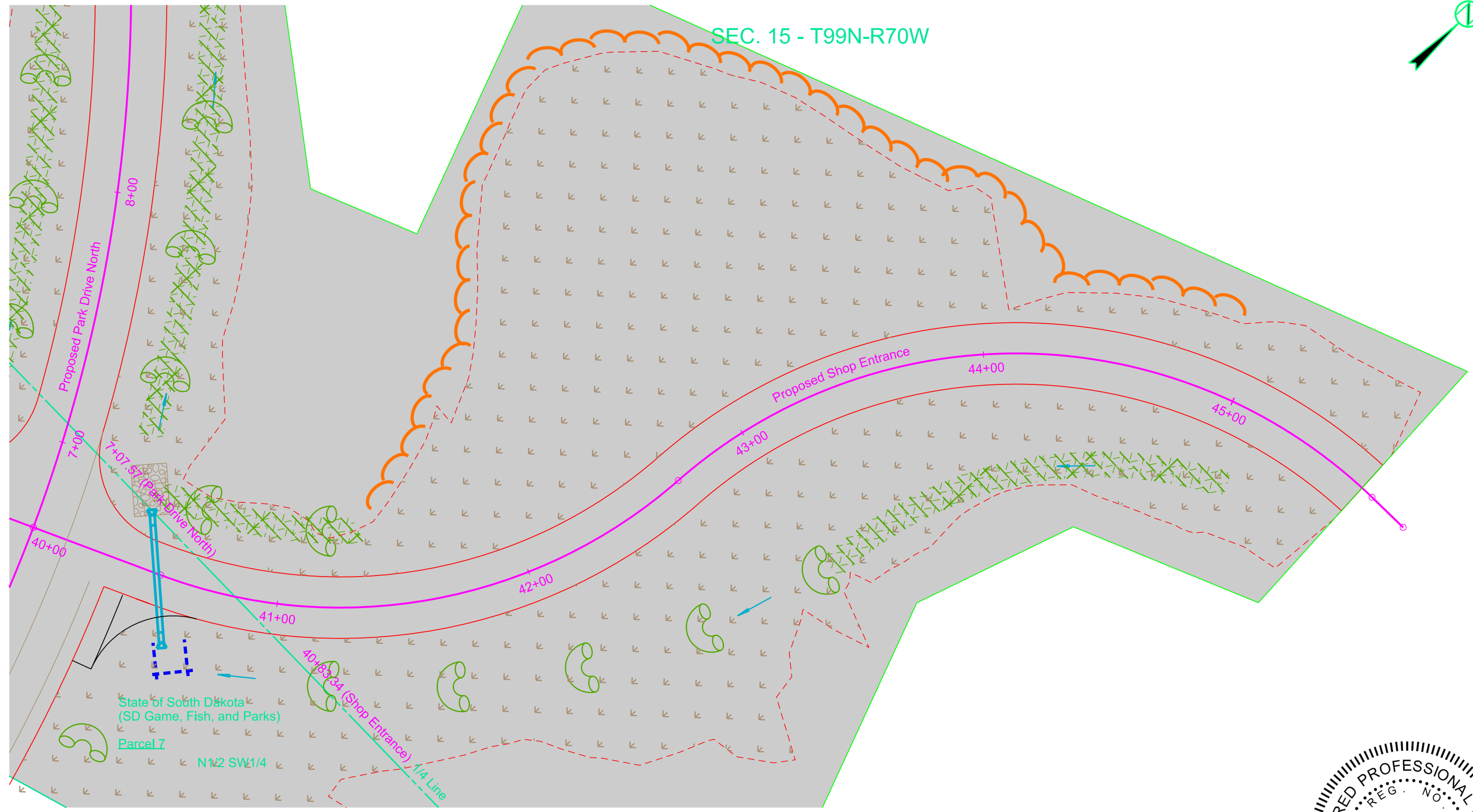
Install Low Flow Silt Fence at the following locations:  
41+48 L to 45+37 L Perimeter control 615 Ft

**FOR BIDDING PURPOSES ONLY**

STATE OF SOUTH DAKOTA	PROJECT P 0044(207)290	SHEET D23	TOTAL SHEETS D30
Plotting Date: 1/3/2024			



SEC. 15 - T99N-R70W



State of South Dakota  
(SD Game, Fish, and Parks)  
Parcel 7  
N1/2 SW1/4



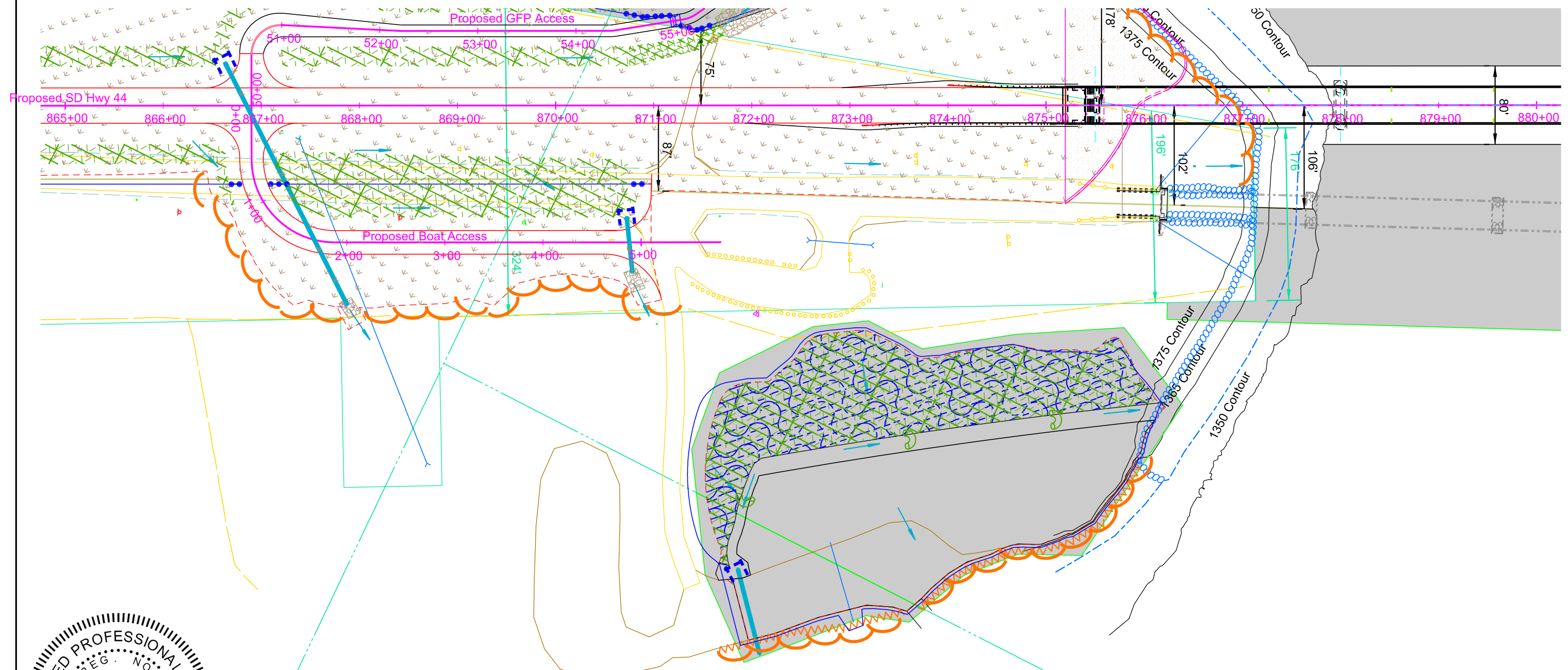
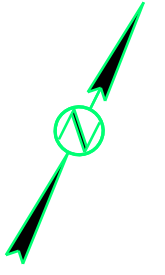
FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT P 0044(207)290	SHEET D24	TOTAL SHEETS D30
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Plotting Date: 1/3/2024

Install High Flow Silt Fence at the following locations:  
871+86 - 472' R Inlet end of pipe 18 Ft

Install 12" Diameter Erosion Control Wattles  
across the highway ditch channel bottom  
at the following locations:  
871+92 R 15 Ft  
873+64 R 15 Ft  
875+12 R 15 Ft



Install Floating Silt Curtain along the bank  
of the river at the following locations:  
871+65 R to 873+50 R Perimeter control 200 Ft  
873+75 R to 876+06 R Perimeter control 275 Ft

Install Low Flow Silt Fence at the following locations:  
871+65 R to 873+50 R Perimeter control 200 Ft  
873+75 R to 876+06 R Perimeter control 275 Ft

Utilize Surface Roughening at the following location:  
871+52 R to 876+15 R Disturbed area 0.9 Acres

Apply Bonded Fiber Matrix at the following locations:  
871+52 R to 876+15 R Disturbed area 1.8 Tons

Install Type 3 Erosion Control Blanket at the following location:  
871+52 R to 876+15 R Disturbed area 4,295 SqYd



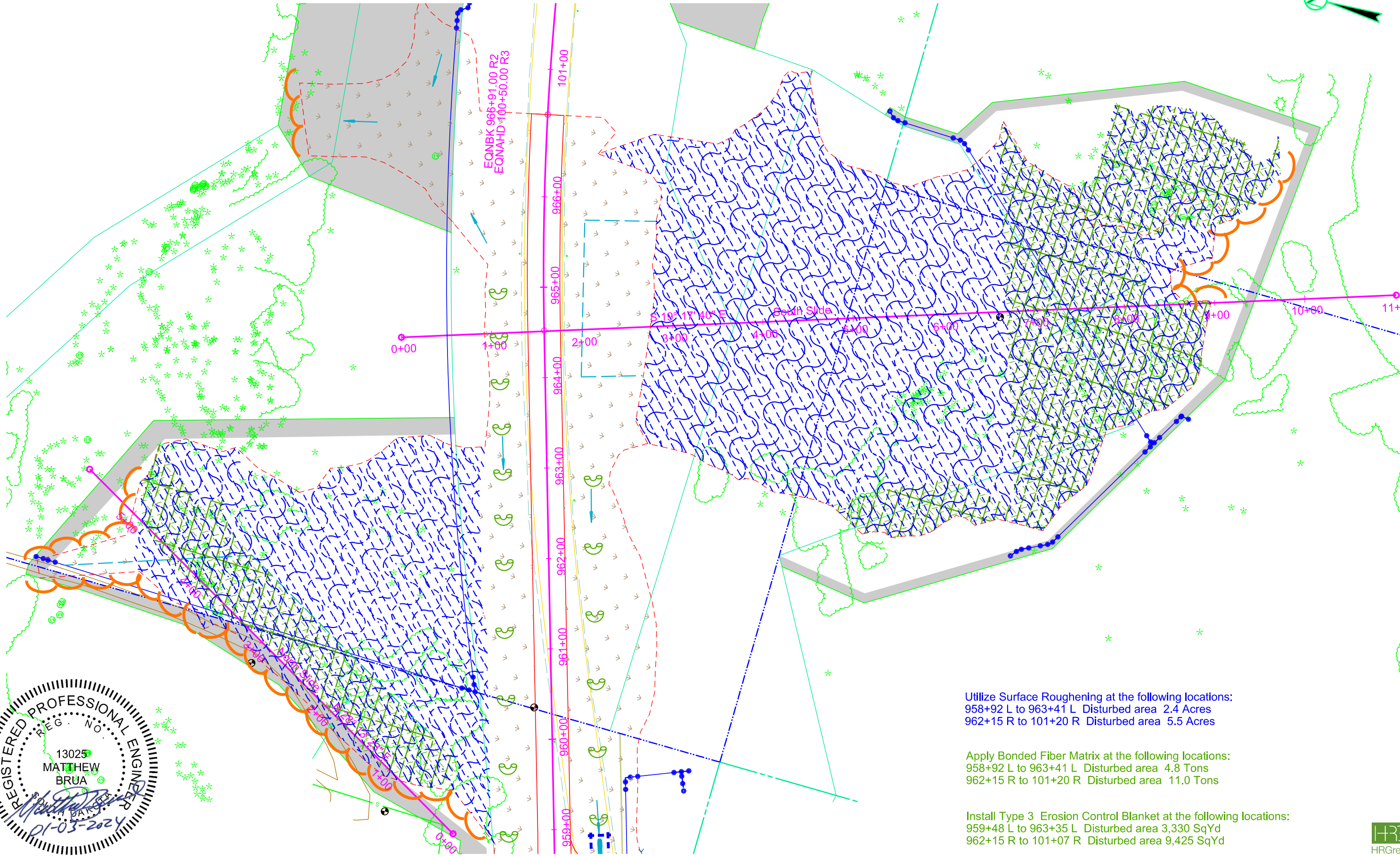
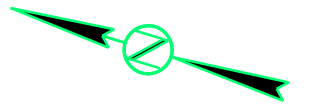
Install Low Flow Silt Fence at the following locations:  
 958+93 L to 963+10 L Perimeter control 900 Ft  
 964+75 R to 100+55 R Perimeter control 400 Ft

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT P 0044(207)290	SHEET D25	TOTAL SHEETS D30
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Plotting Date: 1/3/2024

# SLIDE REPAIRS



EQNBK 966+91.00 R2  
 EQNAHD 100+50.00 R3

Utilize Surface Roughening at the following locations:  
 958+92 L to 963+41 L Disturbed area 2.4 Acres  
 962+15 R to 101+20 R Disturbed area 5.5 Acres

Apply Bonded Fiber Matrix at the following locations:  
 958+92 L to 963+41 L Disturbed area 4.8 Tons  
 962+15 R to 101+20 R Disturbed area 11.0 Tons

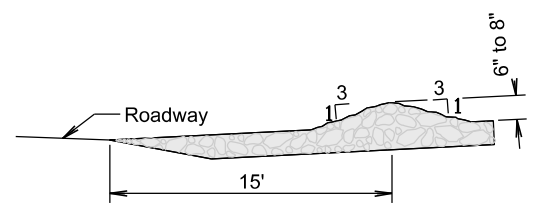
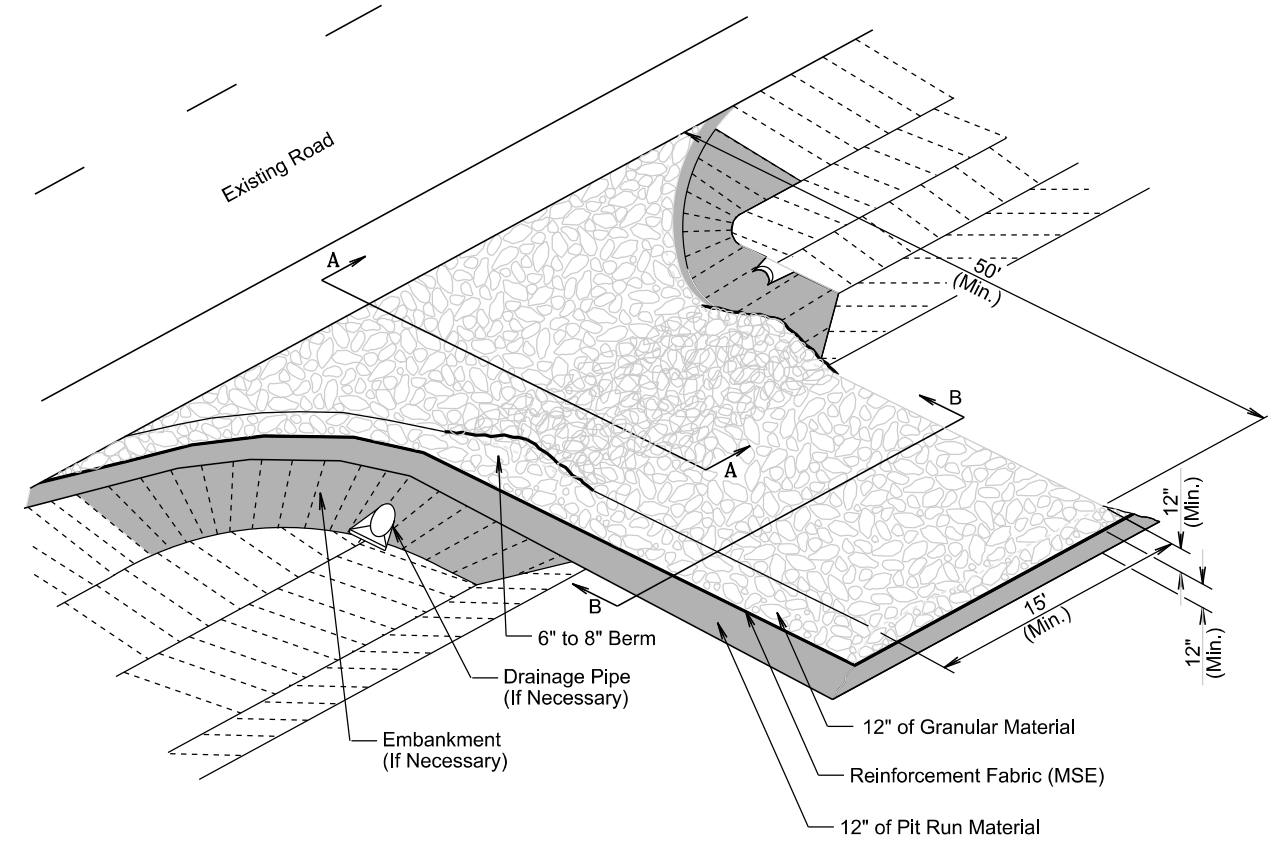
Install Type 3 Erosion Control Blanket at the following locations:  
 959+48 L to 963+35 L Disturbed area 3,330 SqYd  
 962+15 R to 101+07 R Disturbed area 9,425 SqYd



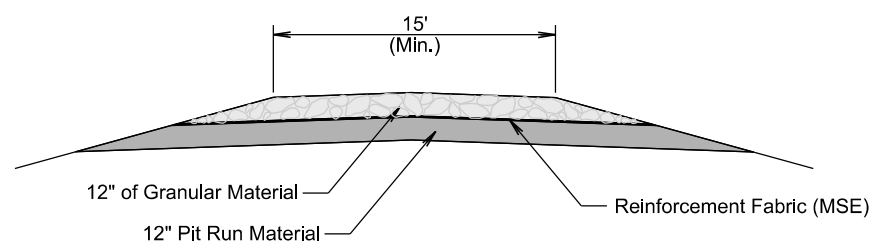
# SDDOT CONSTRUCTION ENTRANCE

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT P 0044(207)290	SHEET D26	TOTAL SHEETS D30
Plotting Date: 1/3/2024			



SECTION A-A

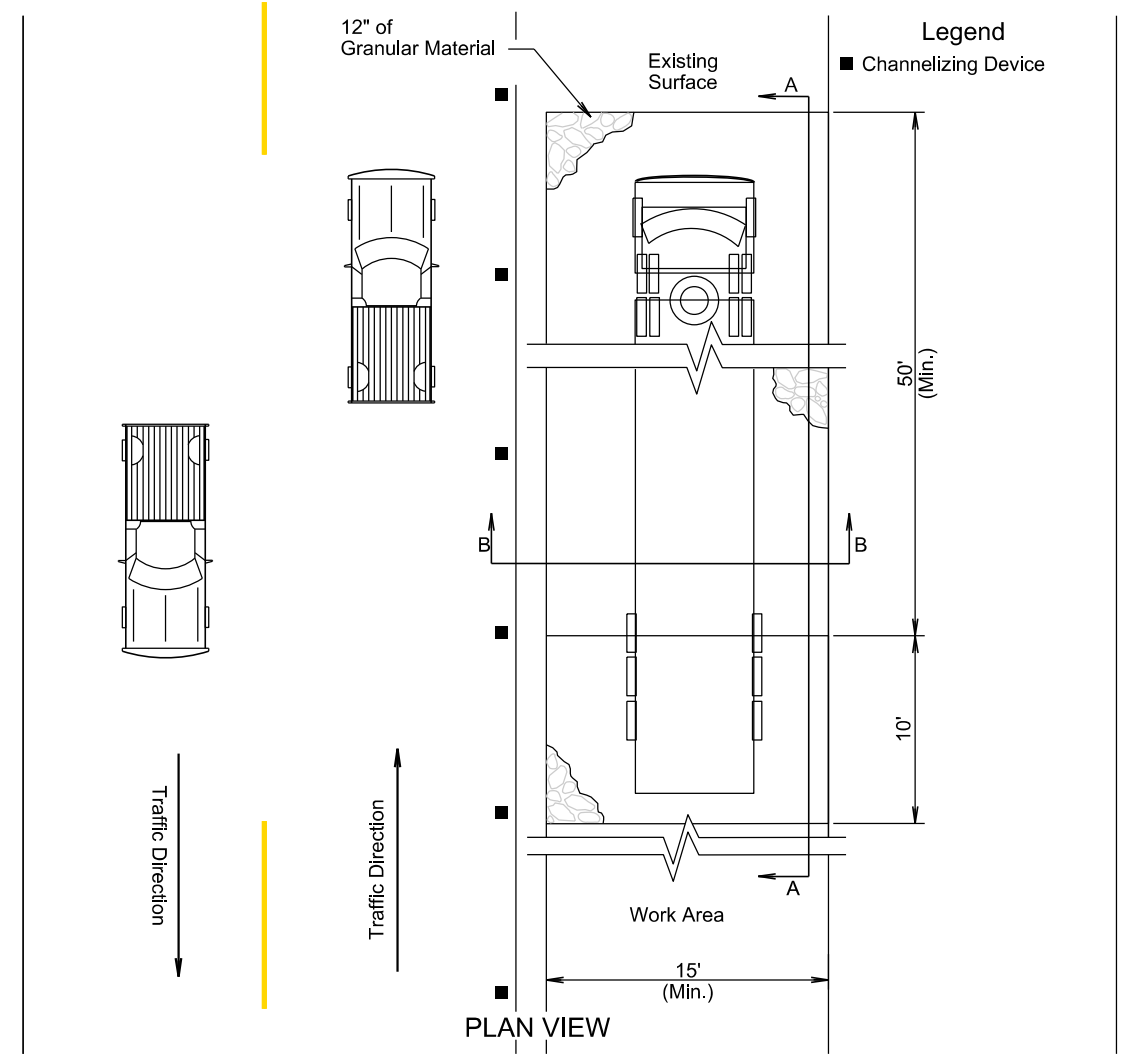


SECTION B-B

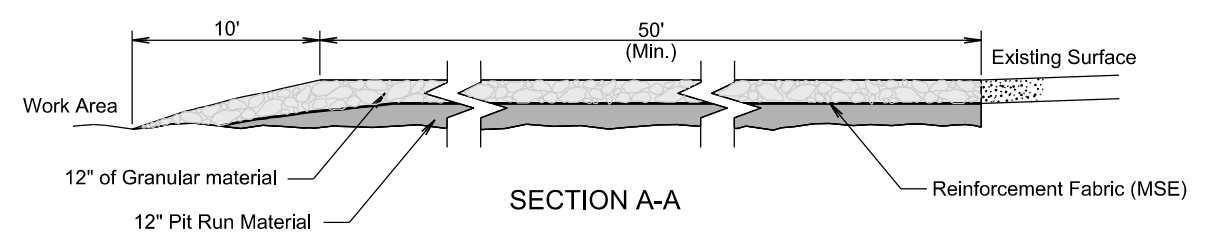
**GENERAL NOTES:**

- If the grade of the entrance slopes down to the roadway, a berm of extra rock will be used to prevent sediment or mud from being deposited on the roadway. See SECTION A-A.
- If a drainage pipe is necessary the size and type will be determined by the Contractor to meet field conditions. All cost will be incidental to the various contract items.
- If embankment is necessary it will be pit run material.

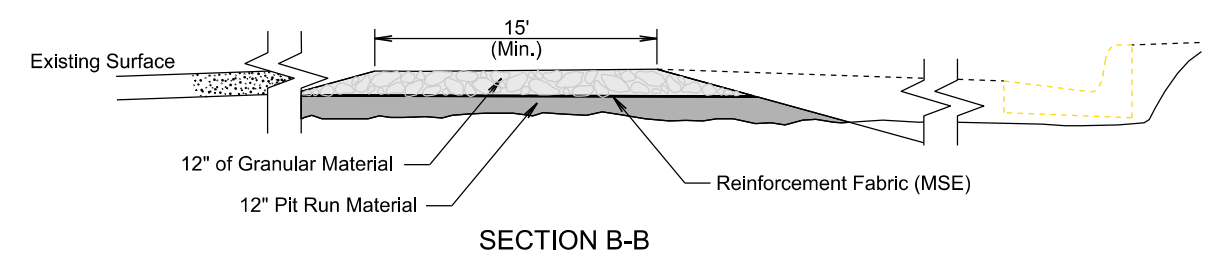
## TRANSVERSE TO ROADWAY



PLAN VIEW



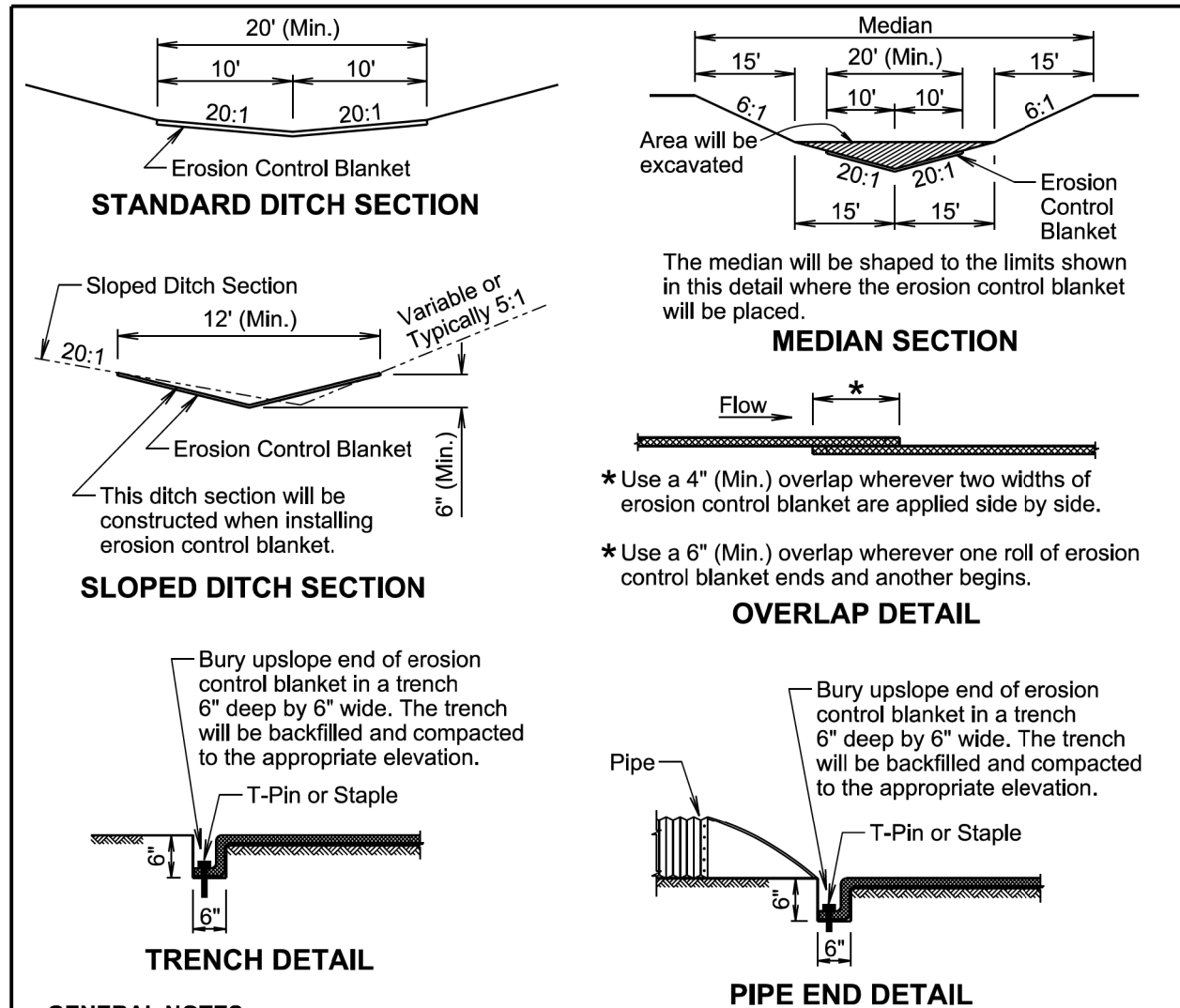
SECTION A-A



SECTION B-B

## PARALLEL TO ROADWAY





**GENERAL NOTES:**

Prior to placement of the erosion control blanket, the areas will be properly prepared, shaped, seeded, and fertilized.

Erosion control blanket will be unrolled in the direction of the flow of water when placed in ditches and on slopes. The upslope end of the erosion control blanket will be buried in a trench 6" wide by 6" deep. There will be at least a 6" overlap wherever one roll of erosion control blanket ends and another begins, with the upslope erosion control blanket placed on top of the downslope erosion control blanket.

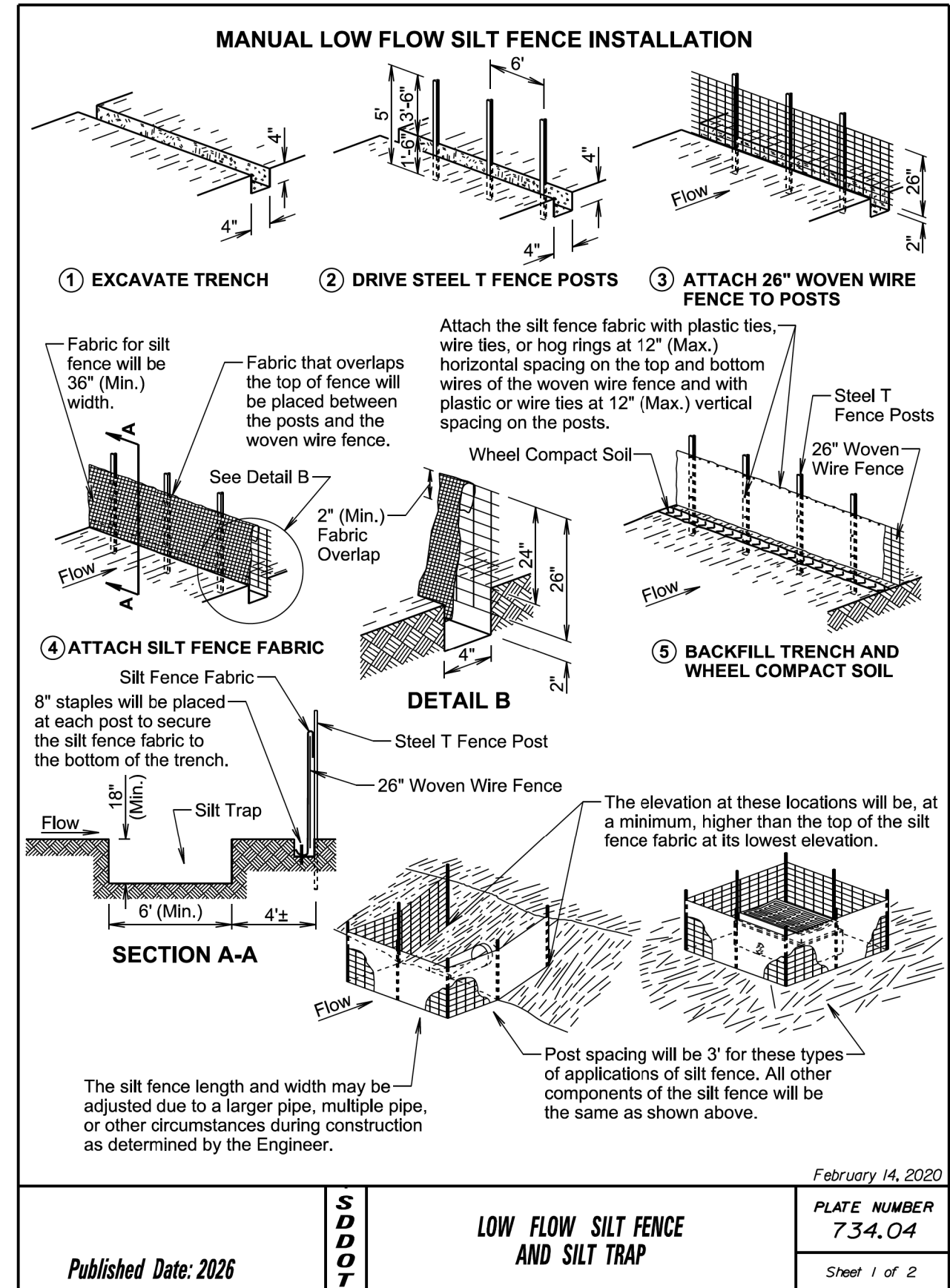
The erosion control blanket will be pinned to the ground according to the manufacturer's installation recommendations.

After the placement of the erosion control blanket, the Contractor will fine grade along all edges of the blanket to maintain a uniform slope adjacent to the blanket and level any low spots which might prevent uniform and unrestricted flow of side drainage directly onto the erosion control blanket.

All ditch sections will be shaped when installing the erosion control blanket. All costs for shaping the ditches will be incidental to the contract unit price per foot for "Shaping for Erosion Control Blanket".

February 14, 2020

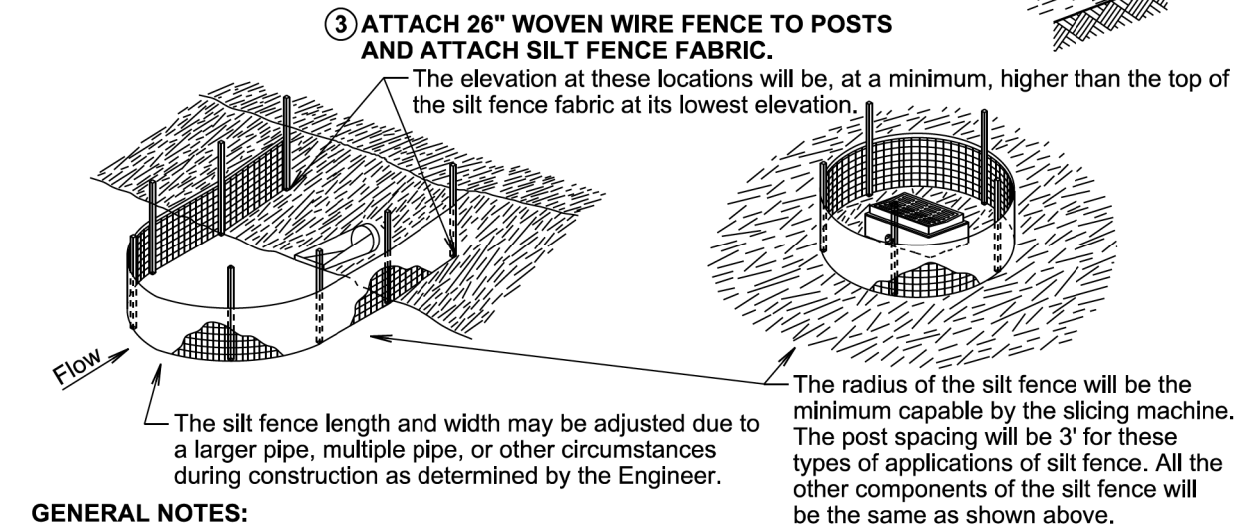
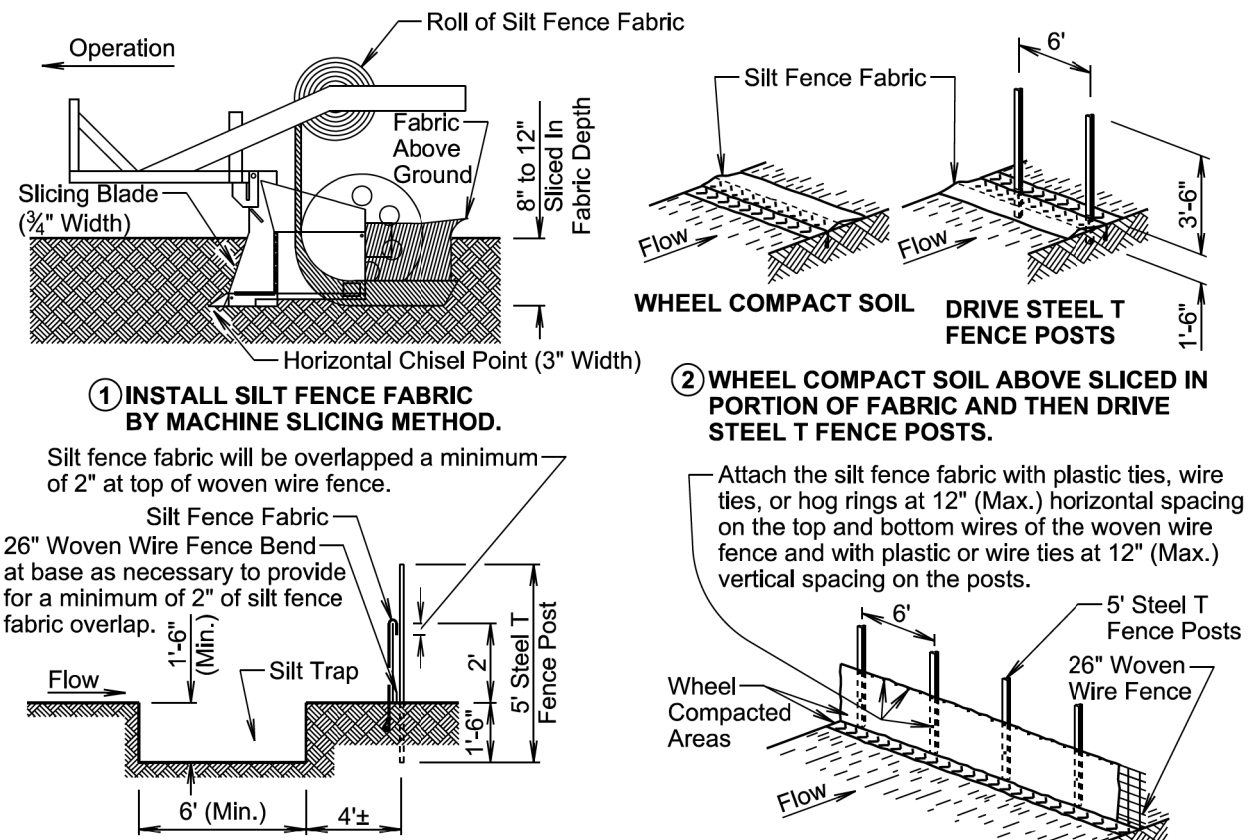
Published Date: 2026	S D D O T	EROSION CONTROL BLANKET	PLATE NUMBER 734.01
			Sheet 1 of 1



February 14, 2020

Published Date: 2026	S D D O T	LOW FLOW SILT FENCE AND SILT TRAP	PLATE NUMBER 734.04
			Sheet 1 of 2

### MACHINE SLICED LOW FLOW SILT FENCE INSTALLATION



**GENERAL NOTES:**

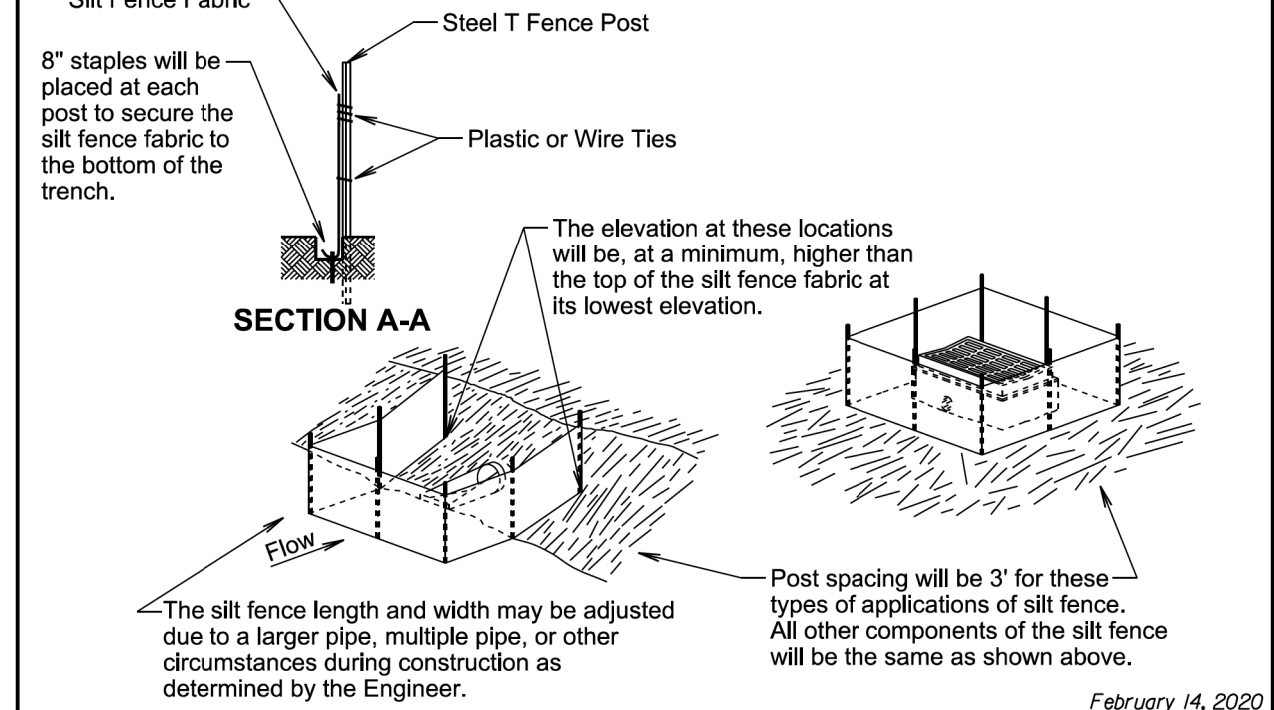
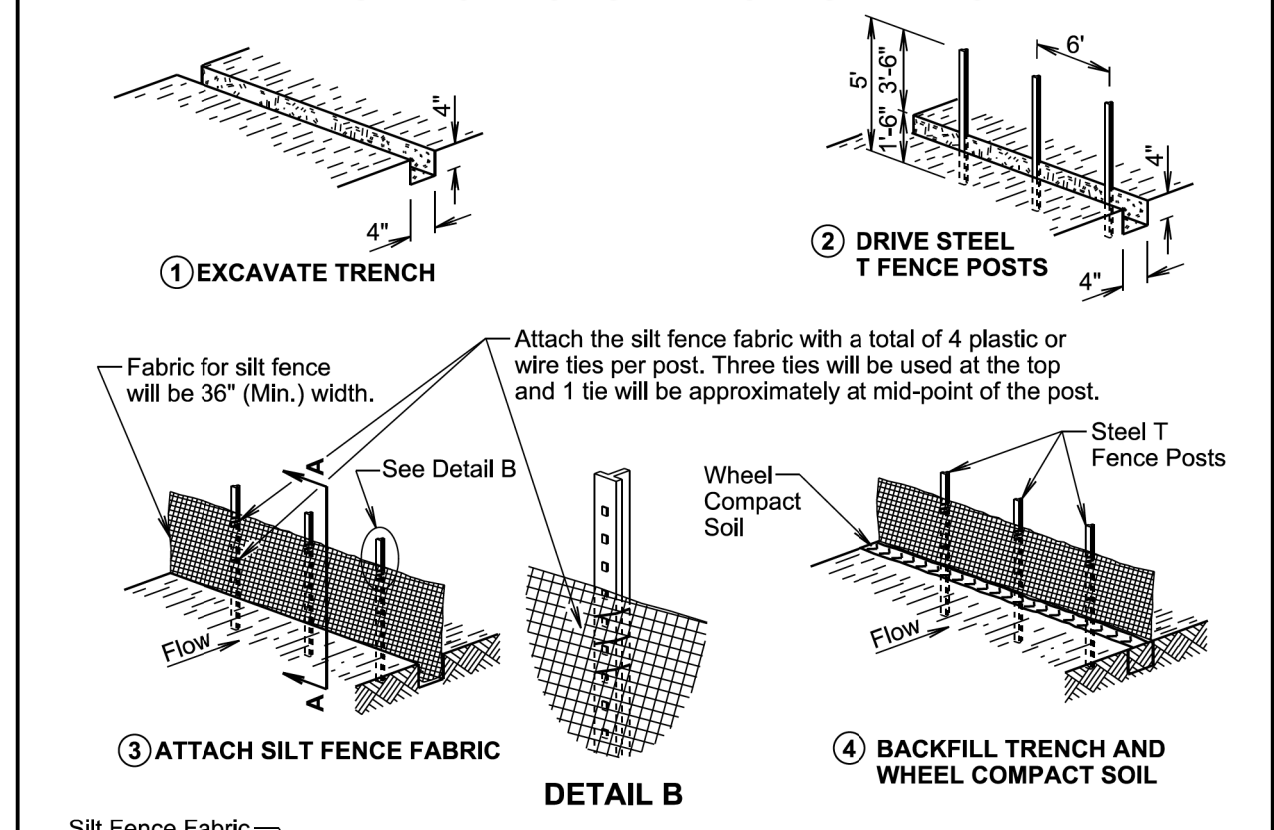
A silt trap will be provided when specified by a plan note. All costs for constructing the silt trap will be incidental to the contract unit price per cubic yard for "Silt Trap".

If a trench can not be dug or the silt fence fabric can not be sliced in due to the type of earthen material (such as rock), then a row of 30 to 40 pound sandbags butted end to end will be provided on top of the extra length of silt fence fabric to prevent underflow.

February 14, 2020

Published Date: 2026	S D D O T	LOW FLOW SILT FENCE AND SILT TRAP	PLATE NUMBER 734.04
			Sheet 2 of 2

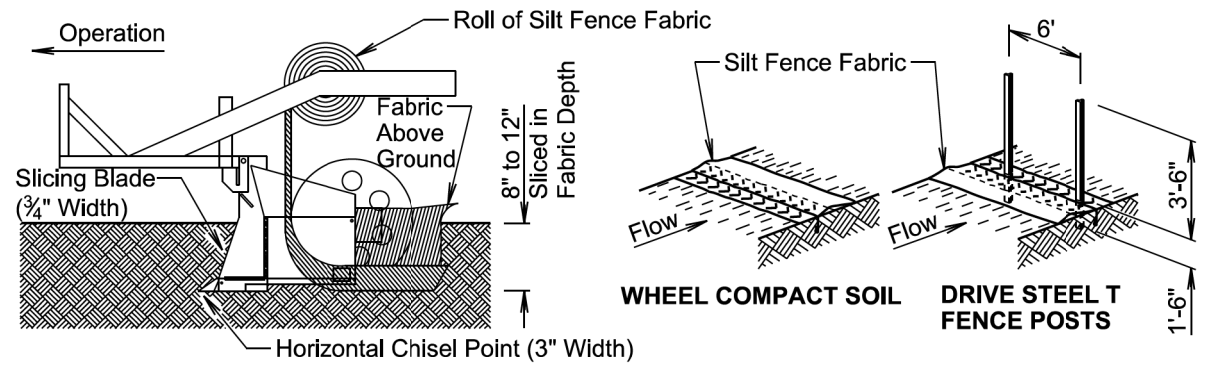
### MANUAL HIGH FLOW SILT FENCE INSTALLATION



February 14, 2020

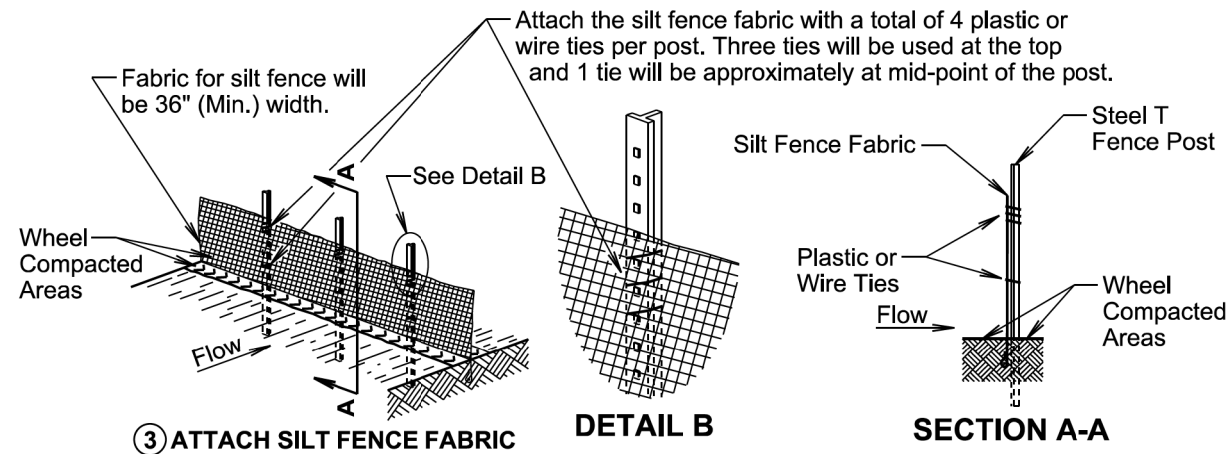
Published Date: 2026	S D D O T	HIGH FLOW SILT FENCE	PLATE NUMBER 734.05
			Sheet 1 of 2

**MACHINE SLICED HIGH FLOW SILT FENCE INSTALLATION**



① **INSTALL SILT FENCE FABRIC BY MACHINE SLICING METHOD.**

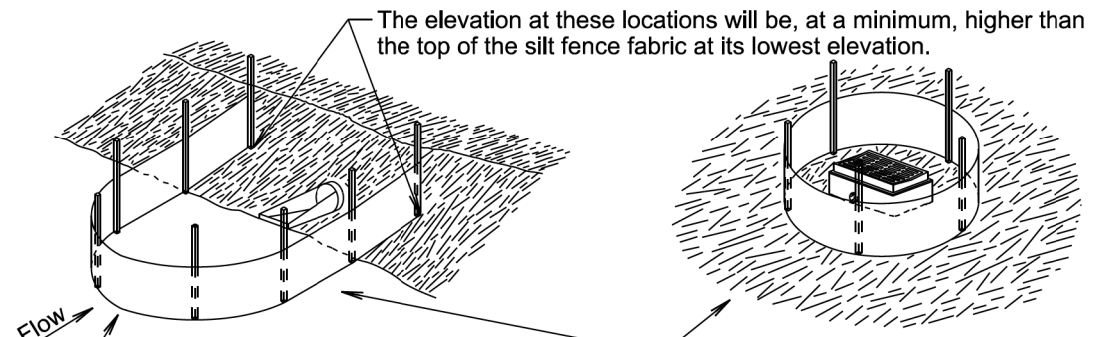
② **WHEEL COMPACT SOIL ABOVE SLICED IN PORTION OF FABRIC AND THEN DRIVE STEEL T FENCE POSTS.**



③ **ATTACH SILT FENCE FABRIC**

**DETAIL B**

**SECTION A-A**



**GENERAL NOTE:**

If a trench can not be dug or the silt fence fabric can not be sliced in due to the type of earthen material (such as rock), then a row of 30 to 40 pound sandbags butted end to end will be provided on top of the extra length of silt fence fabric to prevent underflow.

February 14, 2020

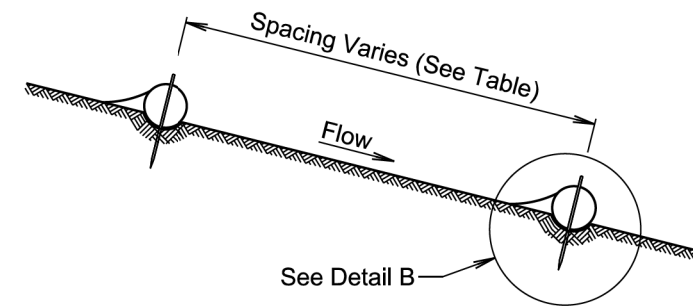
Published Date: 2026

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**HIGH FLOW SILT FENCE**

PLATE NUMBER  
734.05

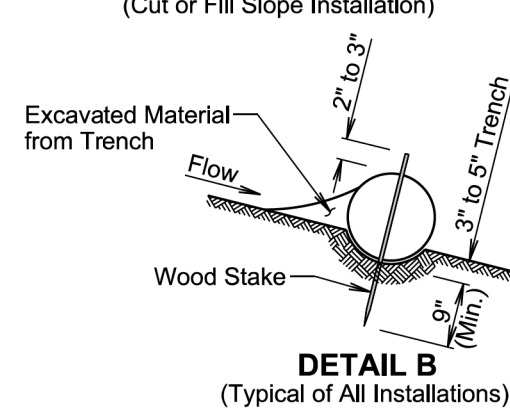
Sheet 2 of 2



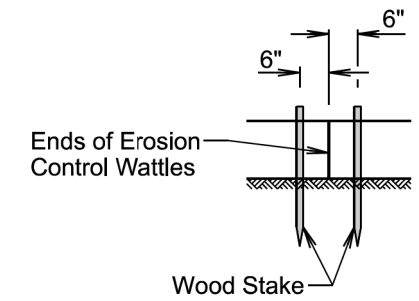
**ELEVATION VIEW**  
(Cut or Fill Slope Installation)

**CUT OR FILL SLOPE INSTALLATION**

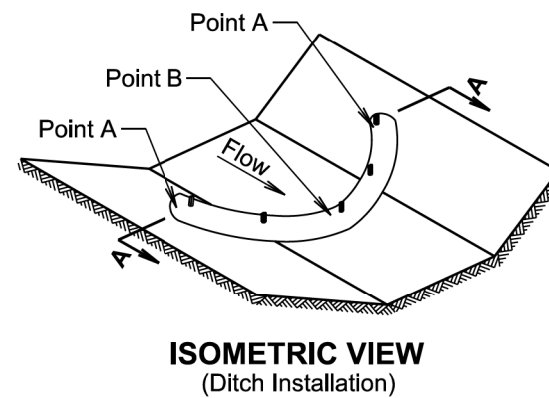
Slope	Spacing (Ft.)
1:1	10
2:1	20
3:1	30
4:1	40



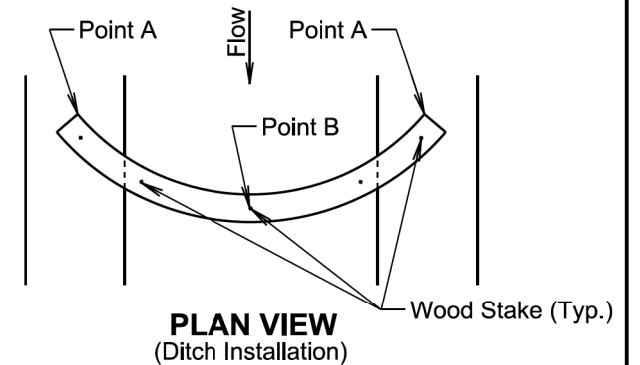
**DETAIL B**  
(Typical of All Installations)



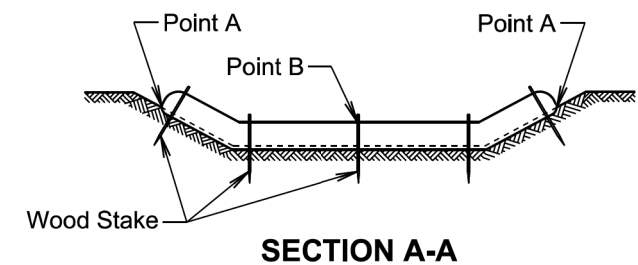
**DETAIL C**  
(See General Notes)



**ISOMETRIC VIEW**  
(Ditch Installation)



**PLAN VIEW**  
(Ditch Installation)



**SECTION A-A**

**DITCH INSTALLATION**

Grade	Spacing (Ft.)
2%	150
3%	100
4%	75
5%	50

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**EROSION CONTROL WATTLE**

PLATE NUMBER  
734.06

Sheet 1 of 2

**GENERAL NOTES:**

At cut or fill slope installations, wattles will be installed along the contour and perpendicular to the water flow.

At ditch installations, point A must be higher than point B to ensure that water flows over the wattle and not around the ends.

The Contractor will dig a 3" to 5" trench, install the wattle tightly in the trench so that daylight can not be seen under the wattle, and then compact the soil excavated from the trench against the wattle on the uphill side. See Detail B.

The stakes will be 1"x2" or 2"x2" wood stakes, however, other types of stakes such as rebar may be used only if approved by the Engineer. The stakes will be placed 6" from the ends of the wattles and the spacing of the stakes along the wattles will be 3' to 4'.

Where installing running lengths of wattles, the Contractor will butt the second wattle tightly against the first and will not overlap the ends. See Detail C.

The Contractor and Engineer will inspect the erosion control wattles in accordance with the storm water permit. The Contractor will remove, dispose, or reshape the accumulated sediment when necessary as determined by the Engineer.

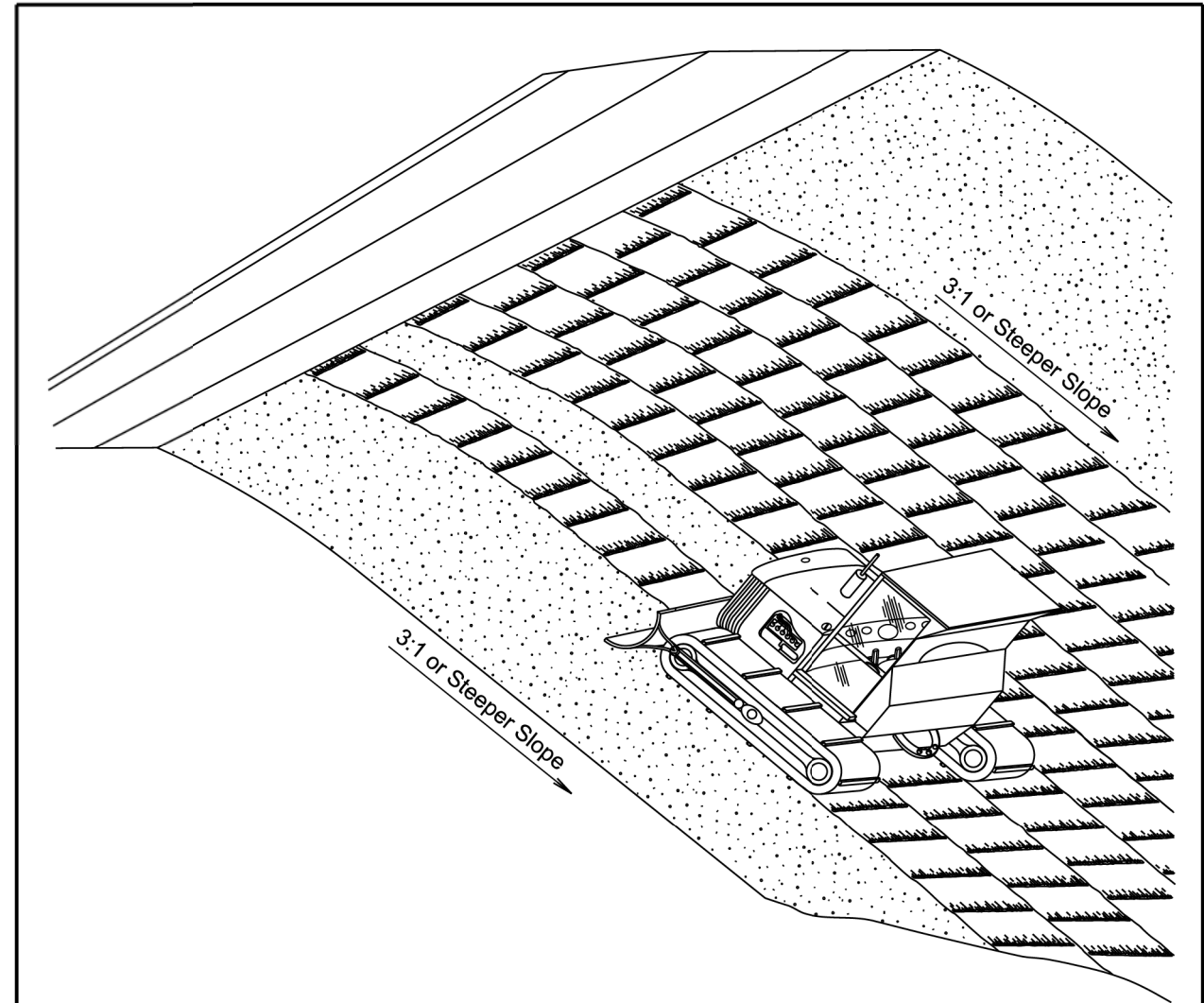
Sediment removal, disposal, or necessary shaping will be as directed by the Engineer. All costs for removing accumulated sediment, disposal of sediment, and necessary shaping will be incidental to the contract unit price per cubic yard for "Remove Sediment".

All costs for furnishing and installing the erosion control wattles including labor, equipment, and materials will be incidental to the contract unit price per foot for the corresponding erosion control wattle contract item.

All costs for removing the erosion control wattle from the project including labor, equipment, and materials will be incidental to the contract unit price per foot for "Remove Erosion Control Wattle".

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			Sheet 2 of 2



**GENERAL NOTES:**

Where practical, surface roughening will be done on slopes 3:1 and steeper and on slopes deemed necessary by the Engineer.

The equipment used for surface roughening will be equipped with tracks that are capable of creating ridges in the soil that are perpendicular to the slope. The final condition of the surface roughening will be approved by the Engineer.

Measurement for surface roughening will be to the nearest tenth of an acre.

All costs associated with surface roughening including labor, equipment, and materials will be incidental to the contract unit price per acre for "Surface Roughening".

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