

# SECTION D: EROSION AND SEDIMENT CONTROL PLANS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-PH 0025(81)158	D1	D36

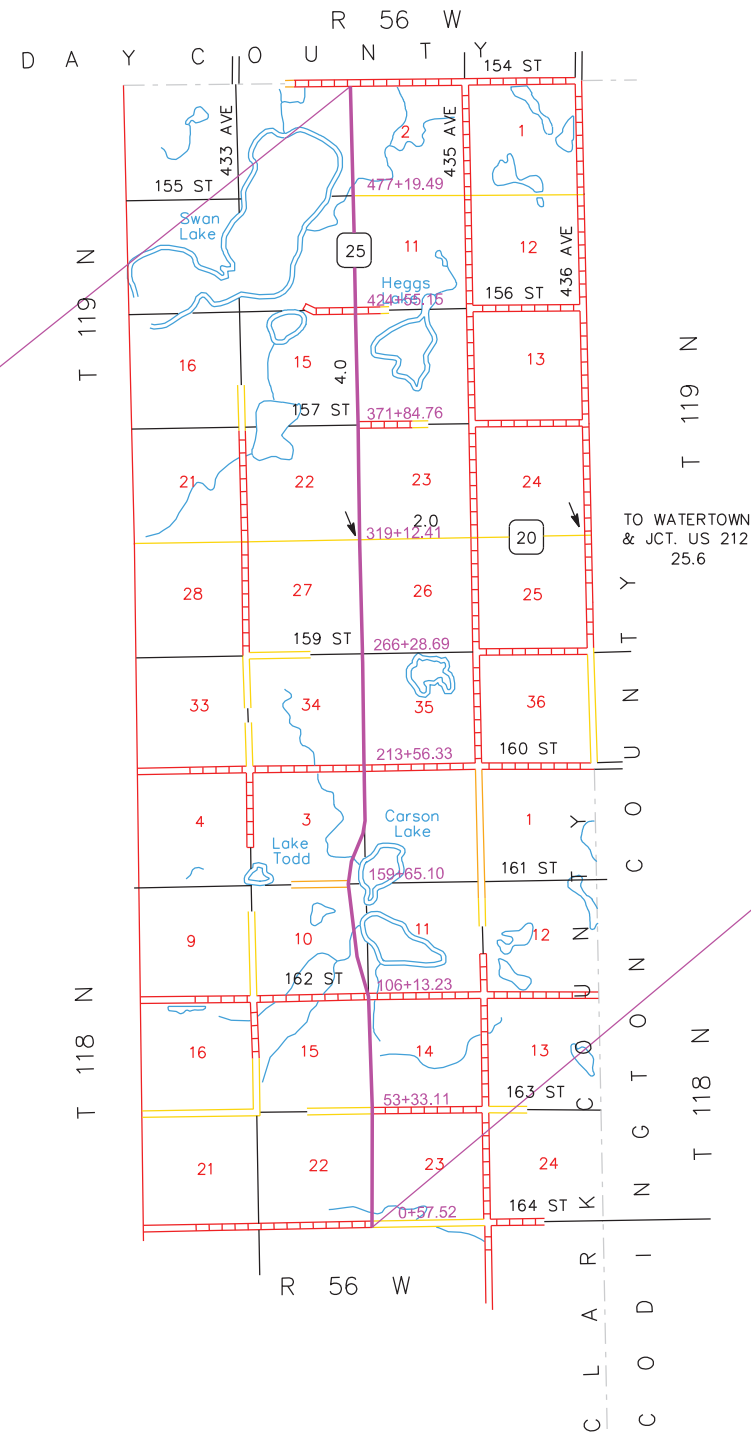
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END P-PH-PT 0025(81)158  
END GRADING AND INTERIM  
SURFACING

Station 529+20



BEGIN P-PH-PT 0025(81)158  
BEGIN GRADING AND INTERIM  
SURFACING

Station 0+50

**SECTION D ESTIMATE OF QUANTITIES**

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E1690	Remove Sediment	1.2	CuYd
110E1693	Remove Erosion Control Wattle	135	Ft
110E1700	Remove Silt Fence	6,382	Ft
230E0010	Placing Topsoil	115,875	CuYd
730E0100	Cover Crop Seeding	110.0	Bu
730E0208	Type E Permanent Seed Mixture	91	Lb
730E0212	Type G Permanent Seed Mixture	3,088	Lb
731E0200	Fertilizing	61.10	Ton
732E0100	Mulching	196.2	Ton
732E0500	Fiber Reinforced Matrix	72.1	Ton
734E0103	Type 3 Erosion Control Blanket	49,356	SqYd
734E0154	12" Diameter Erosion Control Wattle	540	Ft
734E0165	Remove and Reset Erosion Control Wattle	135	Ft
734E0325	Surface Roughening	52.6	Acre
734E0510	Shaping for Erosion Control Blanket	27,614	Ft
734E0602	Low Flow Silt Fence	21,465	Ft
734E0604	High Flow Silt Fence	4,062	Ft
734E0610	Mucking Silt Fence	1,772	CuYd
734E0620	Repair Silt Fence	6,382	Ft
734E0630	Floating Silt Curtain	10,245	Ft
900E1320	Construction Entrance	3	Each

**PLACING TOPSOIL**

The thickness will be approximately 6 inches within the right-of-way and 6 inches on temporary easements. The topsoil thickness for the option borrow pits will be as stated on the option borrow pit sheets.

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

Station	to	Station	Topsoil (CuYd)
0+00		30+00	4,724
30+00		60+00	4,903
60+00		90+00	5,762
90+00		120+00	6,774
120+00		150+00	5,546
150+00		180+00	4,330
180+00		210+00	4,652
210+00		240+00	5,337
240+00		270+00	5,611
270+00		300+00	6,244
300+00		330+00	4,969
330+00		360+00	5,227
360+00		390+00	6,131
390+00		420+00	6,398
420+00		450+00	7,466
450+00		480+00	5,728
480+00		510+00	5,896
510+00		529+20	2,947
Carson Pit:			5,880
Hagen Pit:			5,925
Yexley Pit:			5,425
<b>Total:</b>			<b>115,875</b>

**PERMANENT SEEDING**

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

Type E Permanent Seed Mixture is to be utilized on all US Fish and Wildlife, and SD Game Fish and Parks properties and abutting Right of Way throughout the project. Type E Permanent Seed Mixture is shown with a distinctive hatch that can be found on the Erosion and Sediment Control Legend.

Type E 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
Canada Wildrye	Mandan	2
Wildflowers		
Dotted Gayfeather ( <i>Liatris punctata</i> )		0.5
Black-eyed Susan ( <i>Rudbeckia hirta</i> )		0.5
Blue Flax ( <i>Linum lewisii</i> )		0.5
Pale Purple Coneflower ( <i>Echinacea angustifolia</i> )		0.5
<b>Total:</b>		<b>20</b>

Type G 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
Switchgrass	Dacotah, Forestburg, Nebraska 28, Pathfinder, Summer, Sunburst, Trailblazer	3
Indiangrass	Holt, Tomahawk, Chief, Nebraska 54	3
Big Bluestem	Bison, Bonilla, Champ, Sunnyview, Rountree, Bonanza	3
Oats or Spring Wheat: April through May; Winter Wheat: August through November		10
<b>Total:</b>		<b>26</b>

**COVER CROP SEEDING**

Cover crop seeding may be used on this project as a temporary erosion control measure. The actual limits and use of cover crop seeding will be determined by the Engineer during construction.

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

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

**MULCHING (GRASS HAY OR STRAW)**

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.

Areas that receive an application of Fiber Reinforced Matrix for permanent stabilization will not receive an application of mulching for permanent stabilization.

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Plot Scale - 1:2000

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**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 1,000 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:

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

**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)
74+00 to 79+50	L/R Disturbed area	1.1
90+20 to 94+00	L/R Disturbed area	1.2
95+00 to 102+00	R Disturbed area	0.9
98+00 to 119+75	L Disturbed area	4.2
117+00 to 119+50	R Disturbed area	0.2
124+85 to 128+50	L Inslope	1.1
131+00 to 140+00	L/R Inslope	2.1
180+00 to 186+00	R Disturbed area	0.7
180+00 to 184+00	L Disturbed area	0.7
234+00 to 237+50	L Disturbed area	0.6
234+00 to 240+00	R Disturbed area	0.9
252+00 to 255+00	L Inslope	0.1
252+00 to 259+00	R Inslope	0.6
266+80 to 269+00	L Backslope	0.3
266+50 to 270+00	L Disturbed area	0.7
266+50 to 269+00	R Inslope	0.1
269+00 to 274+00	L Inslope	0.6
269+00 to 273+00	R Inslope	0.4
273+55 to 283+00	R Disturbed area	1.1
275+00 to 283+00	L Disturbed area	1.8
354+10 to 361+00	L Disturbed area	1.8
355+00 to 358+00	R Disturbed area	0.5
364+00 to 367+00	L Backslope	0.4
372+00 to 394+00	L Disturbed area	3.3
372+00 to 388+00	R Inslope	1.5
388+40 to 393+85	R Disturbed area	0.8
400+00 to 408+00	L Disturbed area	1.6
416+00 to 419+00	L/R Disturbed area	0.8

426+00 to 436+00	L Disturbed area	3.2
426+50 to 428+25	R Disturbed area	0.2
440+85 to 445+50	R Disturbed area	0.5
459+50 to 465+50	L Inslope	1.0
498+00 to 492+00	L Disturbed area	0.5
493+00 to 498+50	L Disturbed area	1.0
495+00 to 503+00	R Disturbed area	0.6
498+50 to 503+00	L Disturbed area	0.5
Additional Quantity:		15.0
<b>Total:</b>		<b>52.6</b>

**FIBER REINFORCED MATRIX**

Fiber reinforced matrix will be applied in a separate operation following permanent seeding at locations noted in the table and at locations determined by the Engineer during construction. The application rate is 3,000 pounds per acre.

An additional quantity of Fiber Reinforced Matrix has been added to the Estimate of Quantities for erosion control on areas determined by the Engineer during construction.

The contractor will use a Fiber Reinforced Matrix from the approved products list, or an approved equal. The approved product list for Fiber Reinforced Matrix may be viewed at the following internet site.

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

**TABLE OF FIBER REINFORCED MATRIX**

Station	Location	Quantity (Ton)
74+00 to 79+50	L/R Disturbed area	1.7
90+20 to 94+00	L/R Inslope/Backslope	1.8
95+00 to 102+00	R Inslope	1.4
98+00 to 119+75	L Inslope/Backslope	6.3
117+00 to 119+50	R Inslope	0.3
124+85 to 128+50	L Inslope	1.7
131+00 to 140+00	L/R Inslope	3.2
180+00 to 186+00	R Inslope/Backslope	0.2
180+00 to 184+00	L Inslope/Backslope	0.7
234+00 to 237+50	L Inslope/Backslope	0.9
234+00 to 240+00	R Inslope/Backslope	1.4
266+50 to 269+20	L Inslope/Backslope	0.7
266+50 to 269+00	R Inslope	0.2
270+85 to 273+15	R Inslope	0.6
270+85 to 274+00	L Inslope	0.5
273+55 to 283+00	R Inslope/Backslope	2.0
275+00 to 283+00	L Inslope/Backslope	1.3
354+10 to 361+00	L Inslope/Backslope	2.4
355+00 to 358+00	R Inslope/Backslope	0.5
364+00 to 367+00	L Backslope	0.6
372+00 to 388+30	L Inslope/Backslope	3.4
372+00 to 388+30	R Inslope	2.3
388+40 to 393+85	L/R Inslope/Backslope	2.4
400+00 to 408+00	L Disturbed area	1.6
416+00 to 419+00	L/R Disturbed area	0.8
426+00 to 436+00	L Inslope/Backslope	4.1
426+50 to 428+25	R Inslope	0.3
440+85 to 445+50	R Backslope	0.8
459+50 to 465+50	L Inslope	1.5
498+00 to 492+00	L Backslope	0.8

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493+00 to 498+50	L Inslope	1.5
498+00 to 503+00	R Backslope	0.9
498+50 to 503+00	L Backslope	0.8
Additional Quantity:		22.5
<b>Total:</b>		<b>72.1</b>

**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 until vegetation has been established and then they will be removed in accordance with the Engineer. An additional quantity of 12" Diameter Erosion Control Wattles has been added to the Estimate of Quantities for temporary erosion and sediment control in highway ditch channels and as an alternative to low flow or high flow silt fence at wetland areas adjacent to the highway.

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>

**TABLE OF 12" EROSION CONTROL WATTLE**

Station	Location	Quantity (Ft)
0+07	L/R Inlet and outlet ends of pipe	40
Additional Quantity:		500
<b>Total:</b>		<b>540</b>

**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.

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**TABLE OF LOW FLOW SILT FENCE**

Station	Location	Quantity (Ft)
45+00 to 50+00 R	Perimeter control	500
61+00 to 65+40 L	Perimeter control	440
75+00 to 75+50 R	Perimeter control	450
86+00 to 89+85 R	Perimeter control	385
95+00 to 102+00 R	Perimeter control	750
106+15 L/R	Across ditch bottom (50 Ft each side)	100
106+50 to 116+00 L	Perimeter control	950
110+00 to 120+00 R	Perimeter control	1,000
114+00 to 147+00 R	Perimeter control	325
157+20 R	Protect Lake	100
179+15 L/R	Protect Lake (200 Ft each side)	400
213+50 L/R	Perimeter control	100
217+50 to 221+50 L/R	Perimeter control	800
228+50 to 223+00 L/R	Perimeter control	900
239+80 L	Perimeter control	50
241+00 to 244+00 R	Perimeter control	300
252+50 to 254+50 R	Perimeter control	300
266+50 to 270+00 L/R	Perimeter control	700
270+00 to 273+00 L/R	Perimeter control	600
280+00 to 284+75 R	Perimeter control	475
287+00 to 292+50 L	Perimeter control	550
298+50 to 300+00 R	Perimeter control	150
323+85 to 324+40 L	Perimeter control	110
327+00 to 328+50 R	Perimeter control	170
354+15 to 361+00 L	Perimeter control	685
358+00 to 361+00 R	Perimeter control	300
365+00 R	Perimeter control	75
368+00 L	Perimeter control	75
375+20 R	Perimeter control	65
375+20 to 388+15 R	Perimeter control	1,300
375+50 L	Perimeter control	125
417+00 to 419+50 L/R	Perimeter control	500
425+00 to 435+50 R	Perimeter control	1,050
451+00 to 455+50 L	Perimeter control	450
458+60 to 460+50 L	Perimeter control	200
465+35 to 467+90 L	Perimeter control	260
487+00 to 499+50 L	Perimeter control	1,400
	Carson Pit:	325
	Hagen Pit:	550
	Additional Quantity:	3,500
	<b>Total:</b>	<b>21,465</b>

**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)
6+07 L/R	Inlet and outlet ends of pipe (60 Ft each end)	120
11+87 L	Inlet end of pipe	18
11+87 R	Across ditch at inlet end of pipe	30
19+20 L/R	Inlet and outlet ends of pipe (60 Ft each end)	120
20+58 R	Inlet end of pipe	18
32+55 L	Inlet end of pipe	18
39+59 R	Inlet end of pipe	18
43+59 L/R	Inlet and outlet ends of pipe (60 Ft each end)	120
53+33 L	Inlet end of pipe	18
53+33 R	Across ditch at inlet end of pipe	30
64+59 R	Inlet end of pipe	18
74+58 L	Across ditch at inlet end of pipe	30
78+20 L	Inlet end of pipe	18
89+34 L	Inlet end of pipe	18
96+86 L	Inlet end of pipe	18
106+13 L	Inlet end of pipe	18
108+38 L	Inlet end of pipe	18
114+68 L	Inlet end of pipe	18
118+42 L	Inlet end of pipe	18
128+19 R	Inlet end of pipe	18
138+16 L/R	Inlet and outlet ends of pipe (60 Ft each end)	120
142+28 L	Inlet end of pipe	18
145+63 L/R	Inlet and outlet ends of Cattle Pass (60 Ft each end)	120
159+65 R	Inlet end of pipe	18
171+20 L/R	Inlet and outlet ends of pipe (60 Ft each end)	120
176+61 L/R	Inlet and outlet ends of pipe (60 Ft each end)	120
186+97 R	Across ditch at inlet end of pipe	30
194+65 L	Inlet end of pipe	18
194+65 R	Inlet end of pipe	18
200+87 L	Inlet end of pipe	18
213+56 R	Inlet end of pipe	18
219+21 R	Inlet end of pipe	18
239+81 L	Inlet end of pipe	18
253+30 L	Across ditch at inlet end of pipe (30 Ft each side)	60
256+00 L	Inlet end of pipe	18
266+29 R	Inlet end of pipe	18

271+06 L/R	Inlet and outlet ends of pipe (60 Ft each end)	120
273+40 R	Inlet end of pipe	18
275+58 L	Inlet end of pipe	18
289+49 L	Across ditch at inlet end of pipe (30 Ft each side)	60
292+69 L	Inlet end of pipe	18
299+09 R	Inlet end of pipe	18
308+22 R	Inlet end of pipe	18
316+62 R	Across ditch at inlet end of pipe	30
318+37 R	Across ditch at inlet end of pipe	30
325+12 R	Inlet end of pipe	18
335+94 R	Across ditch at inlet end of pipe	30
354+00 R	Inlet end of pipe	18
355+07 R	Inlet end of pipe	18
364+16 L	Across ditch at inlet end of pipe	30
370+61 L	Across ditch at inlet end of pipe (30 Ft each side)	60
373+62 R	Inlet end of pipe	18
380+30 L	Inlet end of pipe	18
396+63 L	Across ditch at inlet end of pipe (30 Ft each side)	60
411+37 L	Inlet end of pipe	18
411+37 R	Inlet end of pipe	18
418+40 L/R	Inlet and outlet ends of pipe (60 Ft each end)	120
425+55 L	Inlet end of pipe	18
438+85 L	Inlet end of pipe	18
451+76 R	Across ditch at inlet end of pipe	30
464+62 R	Inlet end of pipe	18
476+06 R	Across ditch at inlet end of pipe (30 Ft each side)	60
482+67 L/R	Inlet and outlet end of pipe (60 Ft each end)	120
486+13 L	Inlet end of pipe	18
497+89 R	Inlet end of pipe	18
506+64 L	Inlet end of pipe	18
516+61 R	Inlet end of pipe	18
525+62 L	Inlet end of pipe	18
	Additional Quantity:	1,500
	<b>Total:</b>	<b>4,062</b>

Plot Scale - 1:200

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**EROSION CONTROL BLANKET**

Erosion control blanket will be installed 16 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 3 Erosion Control Blanket has been added to the Estimate of Quantities for temporary erosion control.

**TABLE OF TYPE 3 EROSION CONTROL BLANKET**

Station	Location	Quantity (SqYd)
6+07 R	Outlet end of pipe	53
11+87 L	Outlet end of pipe	53
11+87 R	Outlet end of pipe	53
19+20 R	Outlet end of pipe	53
20+58 R	Outlet end of pipe	53
32+55 L	Outlet end of pipe	53
38+78 to 40+25 R	Ditch bottom	267
39+59 L	Outlet end of pipe	53
43+59 R	Outlet end of pipe	53
53+33 L	Outlet end of pipe	53
53+33 R	Outlet end of pipe	53
54+50 to 55+50 L	Ditch bottom	178
55+75 to 61+00 R	Ditch bottom	933
57+25 to 61+25 L	Ditch bottom	755
64+58 L	Outlet end of pipe	53
74+30 R	Outlet end of pipe	53
78+20 L	Outlet end of pipe	53
89+34 R	Outlet end of pipe	53
80+50 to 89+60 L	Ditch bottom	1,618
90+40 to 94+00 L	Ditch bottom	640
90+40 to 94+00 R	Ditch bottom	640
90+00 R	Outlet end of pipe	53
96+86 R	Outlet end of pipe	53
108+38 R	Outlet end of pipe	53
114+68 R	Outlet end of pipe	53
118+42 R	Outlet end of pipe	53
128+19 R	Outlet end of pipe	53
138+16 R	Outlet end of pipe	53
142+28 L	Outlet end of pipe	53
156+00 to 162+00 L	Ditch bottom	906
180+00 to 186+00 L	Ditch bottom	1,067
180+00 to 186+00 R	Ditch bottom	1,067
186+97 L	Outlet end of pipe	53
194+65 L	Outlet end of pipe	53
194+65 R	Outlet end of pipe	53
200+87 R	Outlet end of pipe	53
213+56 R	Outlet end of pipe	53
219+21 L	Outlet end of pipe	53

234+00 to 240+00 R	Ditch bottom	1,067
234+00 to 239+50 L	Ditch bottom	978
239+81 L	Outlet end of pipe	53
235+30 L	Outlet end of pipe	53
246+00 to 249+00 R	Ditch bottom	533
246+00 to 249+00 R	Ditch bottom	533
247+00 to 269+00 R	Ditch bottom	3,645
266+80 to 269+00 R	Ditch bottom	391
271+06 R	Outlet end of pipe	53
273+40 R	Outlet end of pipe	53
273+80 to 282+00 R	Ditch bottom	1,458
275+58 L	Outlet end of pipe	53
276+00 to 282+00 L	Ditch bottom	1,067
284+50 to 288+00 L	Ditch bottom	633
292+69 L	Outlet end of pipe	53
294+00 to 30+000 R	Ditch bottom	835
296+00 to 299+00 L	Ditch bottom	533
308+22 R	Outlet end of pipe	53
310+00 to 330+00 R	Ditch bottom	3,058
310+00 to 316+00 L	Ditch bottom	1,067
318+37 L	Outlet end of pipe	53
322+00 to 324+00 L	Ditch bottom	355
349+00 to 353+00 R	Ditch bottom	711
350+00 to 367+00 L	Ditch bottom	2,871
355+50 to 358+25 R	Ditch bottom	489
364+16 R	Outlet end of pipe	53
370+61 L	Outlet end of pipe	53
373+62 R	Outlet end of pipe	53
375+75 to 394+00 L	Ditch bottom	3,015
380+30 R	Outlet end of pipe	53
388+80 to 393+50 R	Ditch bottom	862
396+63 R	Outlet end of pipe	53
405+00 to 410+50 R	Ditch bottom	925
405+00 to 411+00 L	Ditch bottom	4,800
411+37 L	Outlet end of pipe	53
411+37 R	Outlet end of pipe	53
418+40 R	Outlet end of pipe	53
420+00 to 430+00 L	Ditch bottom	1,778
420+00 to 426+25 R	Ditch bottom	1,111
424+55 R	Outlet end of pipe	53
438+85 R	Outlet end of pipe	53
451+76 L	Outlet end of pipe	53
463+25 to 467+75 R	Ditch bottom	800
475+25 to 476+06 R	Ditch bottom	144
476+06 L	Outlet end of pipe	53
482+67 L	Outlet end of pipe	159
486+13 L	Outlet end of pipe	53
486+50 to 492+00 L	Ditch bottom	978
497+89 L	Outlet end of pipe	53
498+05 to 503+00 R	Ditch bottom	880
498+50 to 503+00 L	Ditch bottom	800
506+64 R	Outlet end of pipe	53
516+61 L	Outlet end of pipe	53

525+62 R	Outlet end of pipe	53
	Additional Quantity:	2,000
<b>Total Type 3 Erosion Control Blanket:</b>		<b>49,356</b>

**SHAPING FOR EROSION CONTROL BLANKET**

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

**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 maintain the floating silt curtains for the duration of the project to ensure continuous protection of the waterway.

The Floating Silt Curtain provided will be from the approved product list. The approved product list may be viewed at the following internet site:

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

**TABLE OF FLOATING SILT CURTAIN**

Station	Location	Quantity (Ft)
124+75 to 128+50 L	Along bank	400
130+85 to 139+20 L	Along bank	900
133+00 to 141+00 R	Along bank	850
157+50 to 179+50 R	Along bank	2,200
162+00 to 172+00 L	Along bank	1,100
175+40 to 179+15 L	Along bank	400
288+00 to 293+50 R	Along bank	550
324+10 to 340+80 L	Along bank	1,670
328+50 to 340+00 R	Along bank	1,150
460+40 to 465+50 L	Along bank	525
	Additional Quantity:	500
<b>Total:</b>		<b>10,245</b>

## DEWATERING AND SEDIMENT COLLECTING

The Contactor has the option to treat sediment laden water trapped within the project limits or the Contractor may elect to transport sediment laden water off the project. Refer to the OPTIONS FOR DEWATERING AND SEDIMENT COLLECTING detail sheet for more information.

Water transported off the project limits will not be disposed of in an area where it can enter a waterway. The disposal site must be approved by the Engineer.

Separate payment will not be made for any Dewatering and Sediment Collection efforts. All costs involved with necessary Dewatering and Sediment Collection efforts will be incidental to other contract items

## 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 Construction Entrance provided will be from the approved product list. The approved product list may be viewed at the following internet site:

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

## 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.

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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**
- **5.3 (3b): Total Area to be Disturbed**
- **5.3 (3c): Maximum Area Disturbed at One Time**
- **5.3 (3d): Existing Vegetative Cover 85%**
- **5.3 (3d): Description of Vegetative Cover** Typical East River native and introduced vegetation
- **5.3 (3e): Soil Properties:** Loams, Silt Loams, Silty Clay Loams,
- **5.3 (3f): Name of Receiving Water Body/Bodies**
- **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.	
Clearing and grubbing.	
Remove and stockpile topsoil.	
Stabilize disturbed areas.	
Install utilities, storm sewers, curb and gutter.	
Install channel and ditch bottom protection.	
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)

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

Description	Estimated Start Date
<input checked="" 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 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 type="checkbox"/> Turf Reinforcement Mat	
<input 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:	

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**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 checked="" 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 type="checkbox"/> Bonded Fiber Matrix	
<input checked="" 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.





**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.



Install 12" Diameter Erosion Control Wattles\*  
at the following locations:  
0+07 L/R Inlet and outlet ends of pipe 40 Ft  
\*Remove and Reset Wattles as needed.

Install High Flow Silt Fence at the following locations:  
6+07 L/R Inlet and Outlet ends of pipe (60 Ft each end) 120 Ft  
11+87 L Inlet end of pipe 18 Ft  
11+87 R Across ditch at inlet end of pipe 30 Ft  
19+20 L/R Inlet and outlet ends of pipe (60 Ft each end) 120 Ft  
20+58 R Inlet end of pipe 18 Ft  
Around topsoil stockpiles--quantity and location to be determined

Install Type 3 Erosion Control Blanket  
at the following locations:  
6+07 R Outlet end of pipe 53 SqYd  
11+87 L Outlet end of pipe 53 SqYd  
11+87 R Outlet end of pipe 53 SqYd  
19+20 R Outlet end of pipe 53 SqYd  
20+58 R Outlet end of pipe 53 SqYd

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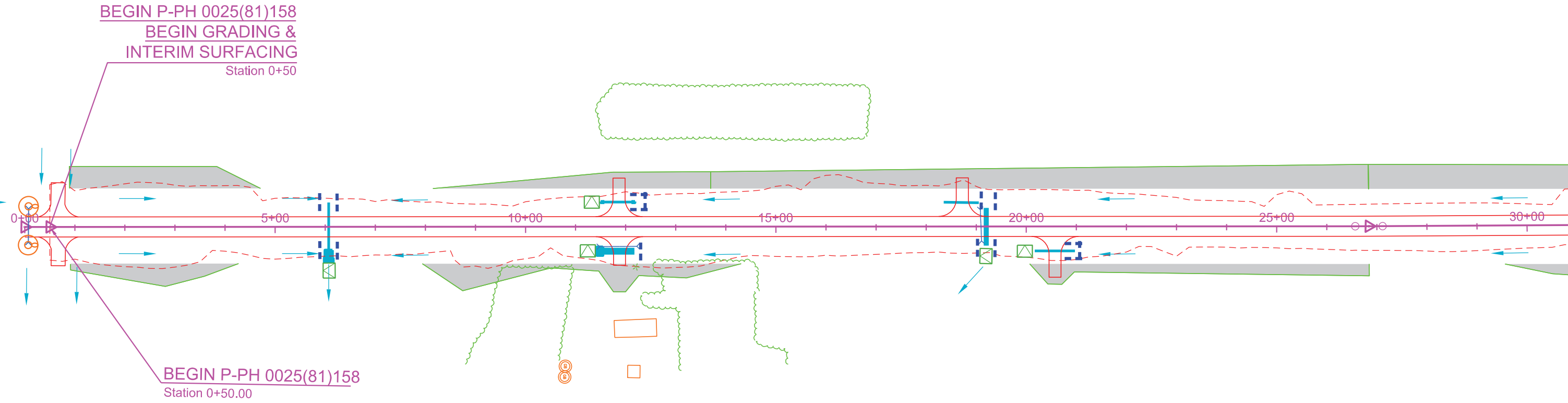
Plotting Date: 01/07/2025



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Install Low Flow Silt Fence at the following locations:  
 45+00 to 50+00 R Perimeter control 500 Ft

Install High Flow Silt Fence at the following locations:  
 32+55 L Inlet end of pipe 18 Ft  
 39+59 R Inlet end of pipe 18 Ft  
 43+59 L/R Inlet and Outlet ends of pipe (60 Ft each end) 120 Ft  
 53+33 L Inlet end of pipe 18 Ft  
 53+33 R Across ditch at inlet end of pipe 30 Ft  
 Around topsoil stockpiles--quantity and location to be determined

Install Type 3 Erosion Control Blanket at the following locations:  
 32+55 L Outlet end of pipe 53 SqYd  
 39+75 to 40+25 R Ditch bottom 267 SqYd  
 43+59 R Outlet end of pipe 53 SqYd  
 53+33 L Outlet end of pipe 53 SqYd  
 53+33 R Outlet end of pipe 53 SqYd  
 54+50 to 55+50 L Ditch bottom 178 SqYd  
 55+75 to 61+00 R Ditch bottom 933 SqYd  
 57+25 to 61+50 L Ditch bottom 755 SqYd

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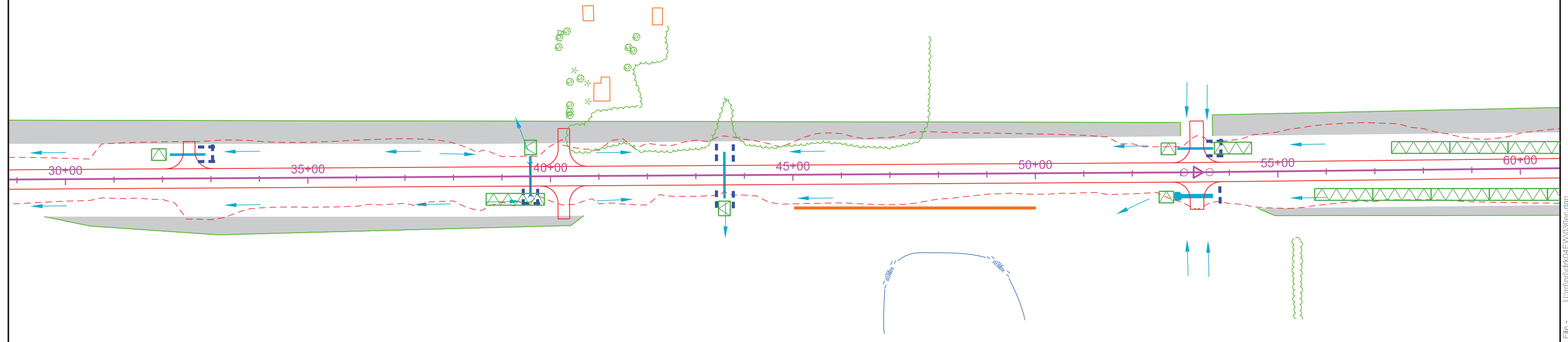
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Install Low Flow Silt Fence at the following locations:  
 61+00 to 65+40 L Perimeter control 440 Ft  
 75+00 to 75+50 R Perimeter control 450 Ft  
 86+00 to 89+85 R Perimeter control 385 Ft

Install High Flow Silt Fence at the following locations:  
 64+59 R Inlet end of pipe 18 Ft  
 74+58 L Across ditch at inlet end of pipe 30 Ft  
 78+20 L Inlet end of pipe 18 Ft  
 89+34 L Inlet end of pipe 18 Ft  
 Around topsoil stockpiles--quantity and location to be determined  
 Utilize Surface Roughening at the following locations:  
 74+00 to 79+50 L/R Disturbed area 1.1 Acres

Install Type 3 Erosion Control Blanket at the following locations:  
 64+58 L Outlet end of pipe 53 SqYd  
 74+30 R Outlet end of pipe 53 SqYd  
 78+20 L Outlet end of pipe 53 SqYd  
 89+34 R Outlet end of pipe 53 SqYd  
 80+50 to 89+60 L Ditch bottom 1,618 SqYd

Apply Fiber Reinforced Matrix at the following locations:  
 74+00 to 79+50 L/R Disturbed area 1.7 Tons

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-PH 0025(81)158	D14	D36

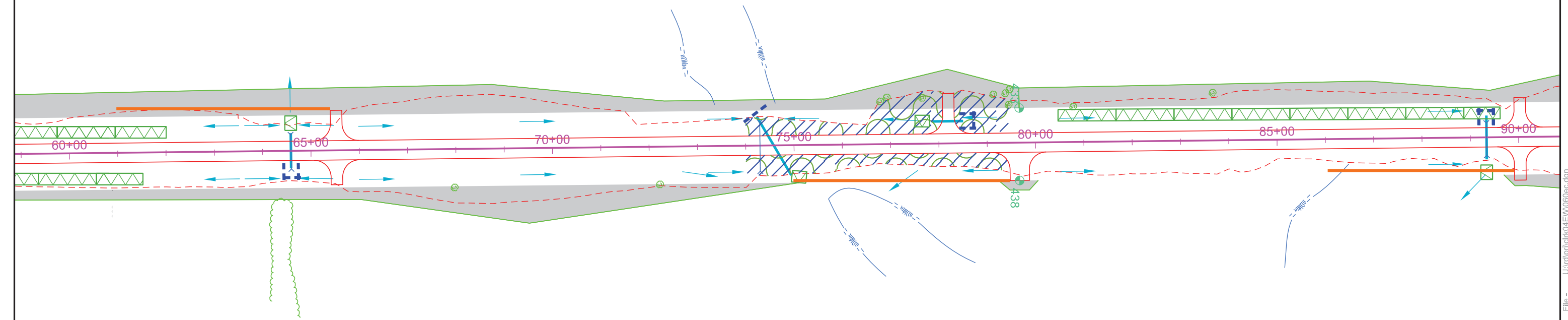
Plotting Date: 01/07/2025



Plot Scale - 1:200

Plotted From - TRPR13525

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**Install Low Flow Silt Fence at the following locations:**  
 95+00 to 102+00 R Perimeter control 750 Ft  
 106+15 L/R Across ditch bottom (50 Ft each side) 100 Ft  
 106+50 to 116+00 L Perimeter control 950 Ft  
 110+00 to 120+00 R Perimeter control 1,000 Ft

**Install High Flow Silt Fence at the following locations:**  
 96+86 L Inlet end of pipe 18 Ft  
 106+13 L Inlet end of pipe 18 Ft  
 108+38 L Inlet end of pipe 18 Ft  
 114+68 L Inlet end of pipe 18 Ft  
 118+42 L Inlet end of pipe 18 Ft  
 Around topsoil stockpiles--quantity and location to be determined

**Utilize Surface Roughening at the following locations:**  
 90+20 to 94+00 L/R Disturbed area 1.2 Acres  
 95+00 to 102+00 R Disturbed area 0.9 Acres  
 98+00 to 119+75 L Disturbed area 4.2 Acres  
 117+00 to 119+50 R Disturbed area 0.2 Acres

**Install Type 3 Erosion Control Blanket at the following locations:**  
 90+40 to 94+00 L Ditch bottom 640 SqYd  
 90+40 to 94+00 R Ditch bottom 640 SqYd  
 90+00 R Outlet end of pipe 53 SqYd  
 96+86 R Outlet end of pipe 53 SqYd  
 108+38 R Outlet end of pipe 53 SqYd  
 114+68 R Outlet end of pipe 53 SqYd  
 118+42 R Outlet end of pipe 53 SqYd

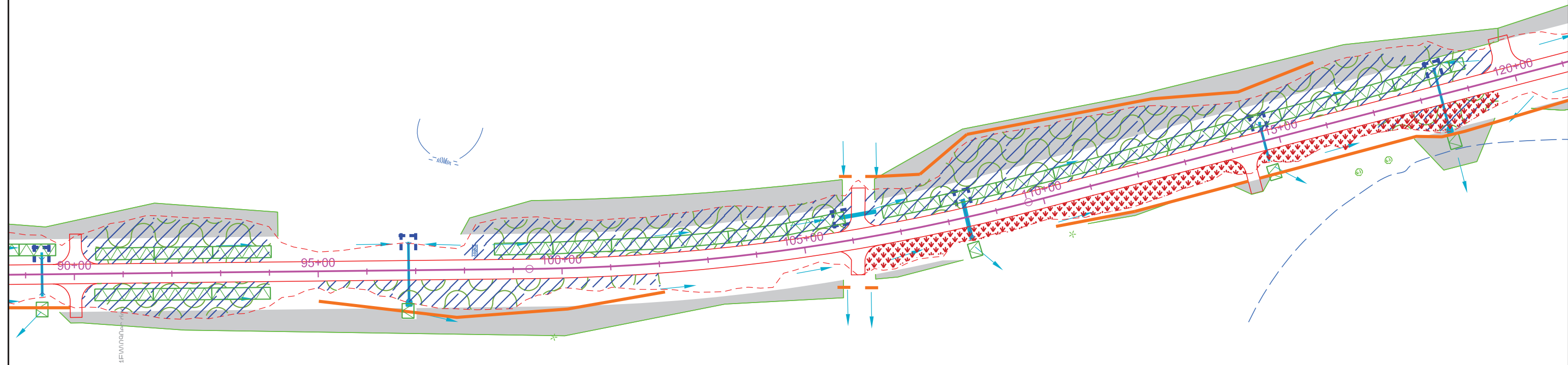
**Apply Fiber Reinforced Matrix at the following locations:**  
 90+20 to 94+00 L/R Inslope/Backslope 1.8 Tons  
 95+00 to 102+00 R Inslope 1.4 Tons  
 98+00 to 119+75 L Inslope/Backslope 6.3 Tons  
 117+00 to 119+50 R Inslope 0.3 Tons

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-PH 0025(81)158	D15	D36

Plotting Date: 01/07/2025



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Install Floating Silt Curtain along the banks  
at the following locations:  
124+75 to 128+50 L 400 Ft  
130+85 to 139+20 L 900 Ft  
133+00 to 141+00 R 850 Ft

Install Low Flow Silt Fence at the following locations:  
144+00 to 147+00 R Perimeter control 325 Ft

Install High Flow Silt Fence at the following locations:  
128+19 R Inlet end of pipe 18 Ft  
138+16 L/R Inlet and Outlet ends of pipe (60 Ft each end) 120 Ft  
142+28 L Inlet end of pipe 18 Ft  
145+63 L/R Inlet and Outlet end of Cattle Pass (60 Ft each end) 120 Ft  
Around topsoil stockpiles--quantity and location to be determined

Utilize Surface Roughening at the following locations:  
124+85 to 128+50 L Disturbed area 1.1 Acres  
131+00 to 140+00 L/R Disturbed area 2.1 Acres

Install Type 3 Erosion Control Blanket  
at the following locations:  
128+19 R Outlet end of pipe 53 SqYd  
138+16 R Outlet end of pipe 53 SqYd  
142+28 L Outlet end of pipe 53 SqYd

Apply Fiber Reinforced Matrix at the following locations:  
124+85 to 128+50 L Inslope 1.7 Tons  
131+00 to 140+00 L/R Inslope 3.2 Tons

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-PH 0025(81)158	D16	D36

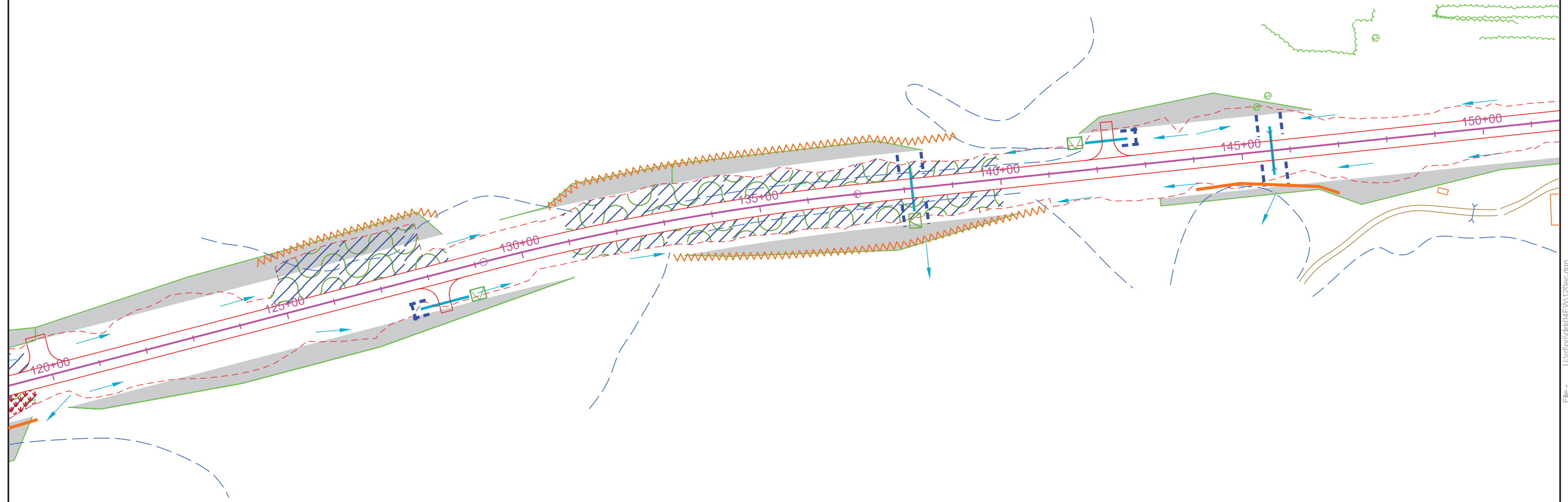
Plotting Date: 01/07/2025 REV. 01-07-25 BS



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Plotted From - TRPR13525

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Install Floating Silt Curtain along the bank  
at the following locations:  
157+50 to 179+50 R 2,200 Ft  
162+00 to 172+00 L 1,100 Ft  
175+40 to 179+15 L 400 Ft

Install High Flow Silt Fence at the following locations:  
159+65 R Inlet end of pipe 18 Ft  
171+20 L/R Inlet and Outlet ends of pipe (60 Ft each end) 120 Ft  
176+61 L/R Inlet and Outlet ends of pipe (60 Ft each end) 120 Ft  
Around topsoil stockpiles--quantity and location to be determined

Install Type 3 Erosion Control Blanket  
at the following locations:  
156+00 to 162+00 L Ditch bottom 906 SqYd

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-PH 0025(81)158	D17	D36

Plotting Date: 01/07/2025

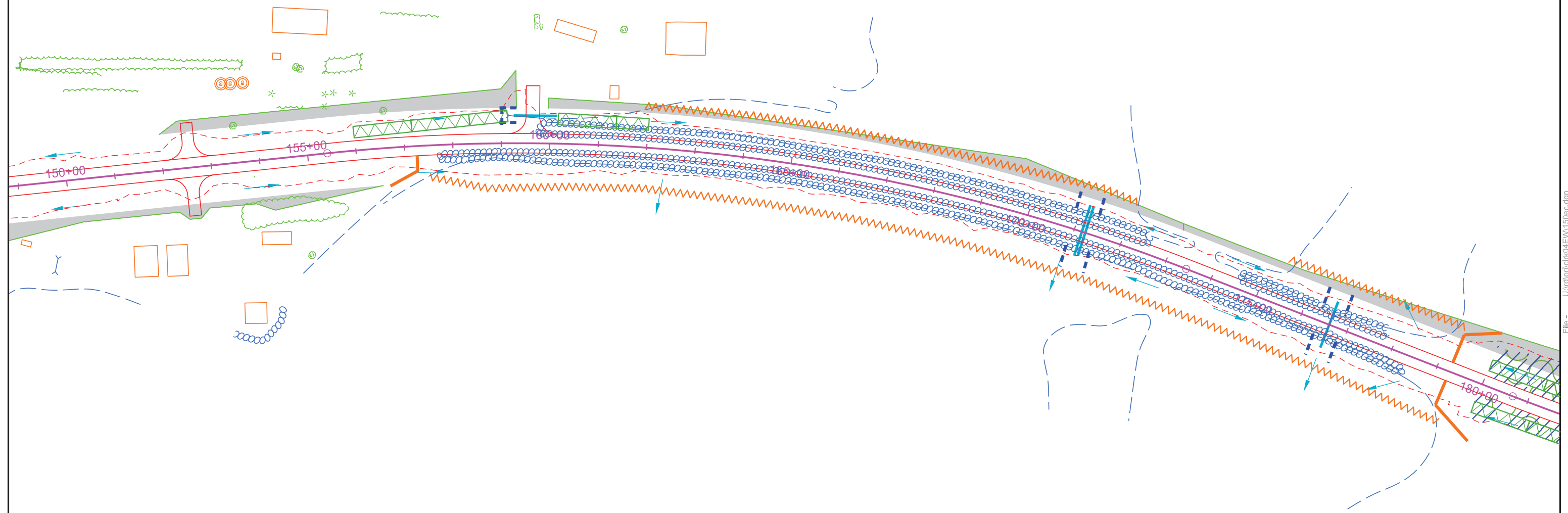


Install Low Flow Silt Fence at the following locations:  
157+20 R Protect lake 100 Ft  
179+15 L/R Protect lake (200 Ft each side) 400 Ft

Plot Scale - 1:200

Plotted From - TRPR13525

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STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-PH 0025(81)158	D18	D36

Plotting Date: 01/07/2025



Install High Flow Silt Fence at the following locations:  
 186+97 R Across ditch at inlet end of pipe 30 Ft  
 194+65 L Inlet end of pipe 18 Ft  
 194+65 R Inlet end of pipe 18 Ft  
 200+87 L Inlet end of pipe 18 Ft  
 Around topsoil stockpiles--quantity and location to be determined

Utilize Surface Roughening at the following locations:  
 180+00 to 186+00 R Disturbed area 0.7 Acres  
 180+00 to 184+00 L Disturbed area 0.7 Acres

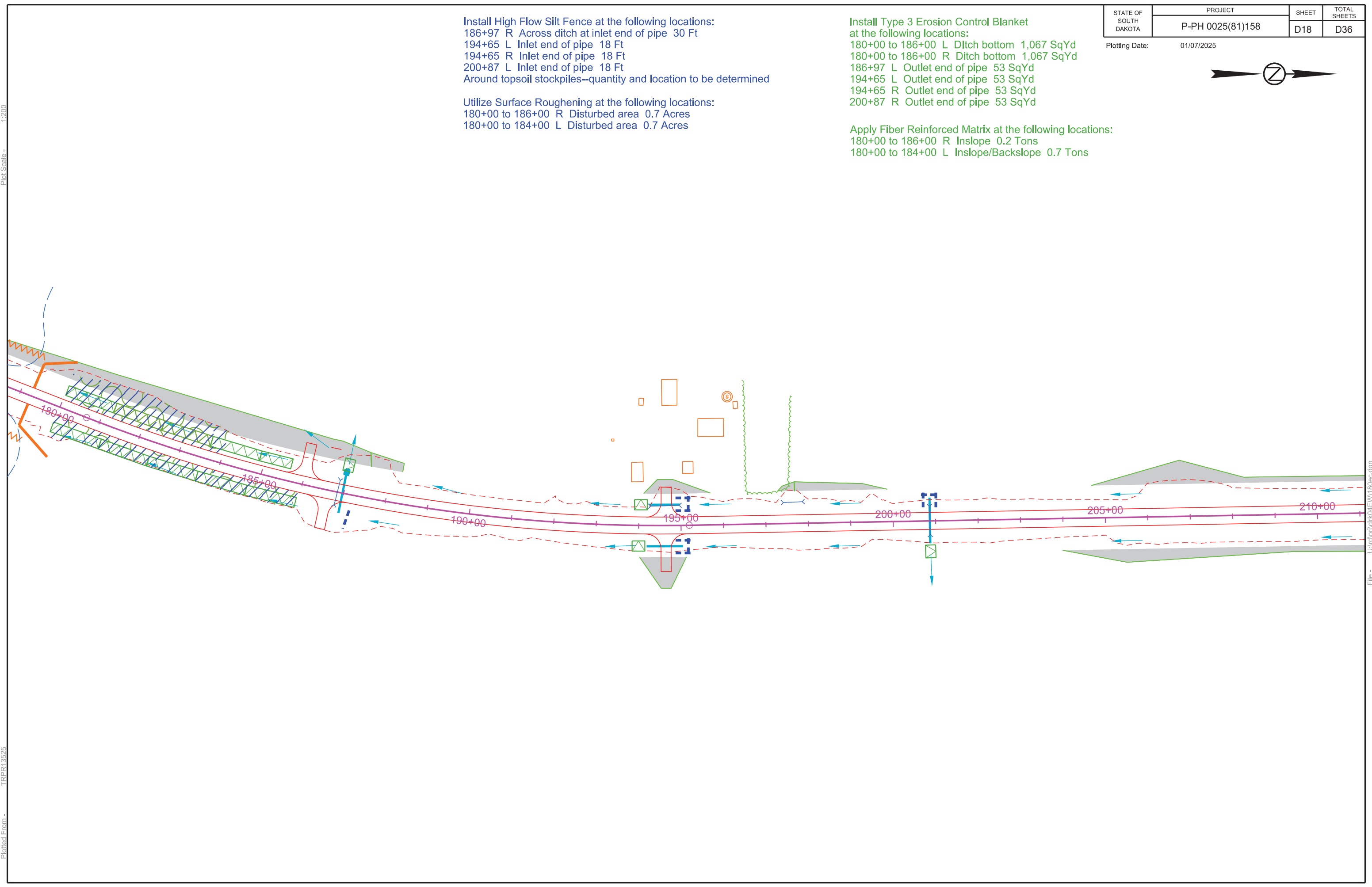
Install Type 3 Erosion Control Blanket  
 at the following locations:  
 180+00 to 186+00 L Ditch bottom 1,067 SqYd  
 180+00 to 186+00 R Ditch bottom 1,067 SqYd  
 186+97 L Outlet end of pipe 53 SqYd  
 194+65 L Outlet end of pipe 53 SqYd  
 194+65 R Outlet end of pipe 53 SqYd  
 200+87 R Outlet end of pipe 53 SqYd

Apply Fiber Reinforced Matrix at the following locations:  
 180+00 to 186+00 R Inslope 0.2 Tons  
 180+00 to 184+00 L Inslope/Backslope 0.7 Tons

Plot Scale - 1:200

Plotted From - TRPR13525

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Install Low Flow Silt Fence at the following locations:  
 213+50 L/R Perimeter control 100 Ft  
 217+50 to 221+50 L/R Perimeter control 800 Ft  
 228+50 to 233+00 L/R Perimeter control 900 Ft  
 239+80 L Perimeter control 50 Ft

Install High Flow Silt Fence at the following locations:  
 213+56 R Inlet end of pipe 18 Ft  
 219+21 R Inlet end of pipe 18 Ft  
 239+81 L Inlet end of pipe 18 Ft  
 Around topsoil stockpiles--quantity and location to be determined

Utilize Surface Roughening at the following locations:  
 234+00 to 237+50 L Disturbed area 0.6 Acres  
 234+00 to 240+00 R Disturbed area 0.9 Acres

Install Type 3 Erosion Control Blanket at the following locations:  
 213+56 R Outlet end of pipe 53 SqYd  
 219+21 L Outlet end of pipe 53 SqYd  
 234+00 to 240+00 R Ditch bottom 1,067 SqYd  
 234+00 to 239+50 L Ditch bottom 978 SqYd  
 239+81 L Outlet end of pipe 53 SqYd

Apply Fiber Reinforced Matrix at the following locations:  
 234+00 to 237+50 L Inslope/Backslope 0.9 Tons  
 234+00 to 240+00 R Inslope/Backslope 1.4 Tons

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-PH 0025(81)158	D19	D36

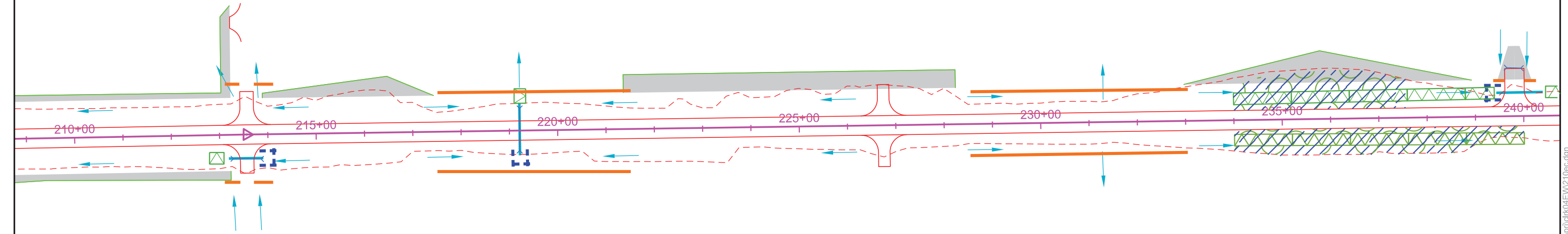
Plotting Date: 01/07/2025 REV. 01-07-25 BS



Plot Scale - 1:200

Plotted From - TRPR13525

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**Install Low Flow Silt Fence at the following locations:**

- 241+00 to 244+00 R Perimeter control 300 Ft
- 252+50 to 254+50 R Perimeter control 200 Ft
- 266+50 to 270+00 L/R Perimeter control 700 Ft

**Install High Flow Silt Fence at the following locations:**

- 253+30 L Across ditch at inlet end of pipe (30 Ft each side) 60 Ft
- 256+00 L Inlet end of pipe 18 Ft
- 266+29 R Inlet end of pipe 18 Ft
- Around topsoil stockpiles--quantity and location to be determined

**Utilize Surface Roughening at the following locations:**

- 252+00 to 255+50 L Inslope 0.1 Acres
- 252+00 to 259+00 R Inslope 0.6 Acres
- 266+50 to 270+00 L Disturbed area 0.7 Acres
- 266+50 to 269+00 R Inslope 0.1 Acres
- 266+80 to 269+00 L Backslope 0.3 Acres

**Install Type 3 Erosion Control Blanket at the following locations:**

- 235+30 L Outlet end of pipe 53 SqYd
- 246+00 to 249+00 R Ditch bottom 533 SqYd
- 247+00 to 269+00 L Ditch bottom 3,645 SqYd
- 266+80 to 269+00 R Ditch bottom 391 SqYd

**Apply Fiber Reinforced Matrix at the following locations:**

- 266+50 to 269+20 L Inslope/Backslope 0.7 Tons
- 266+50 to 269+00 R Inslope 0.2 Tons

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-PH 0025(81)158	D20	D36

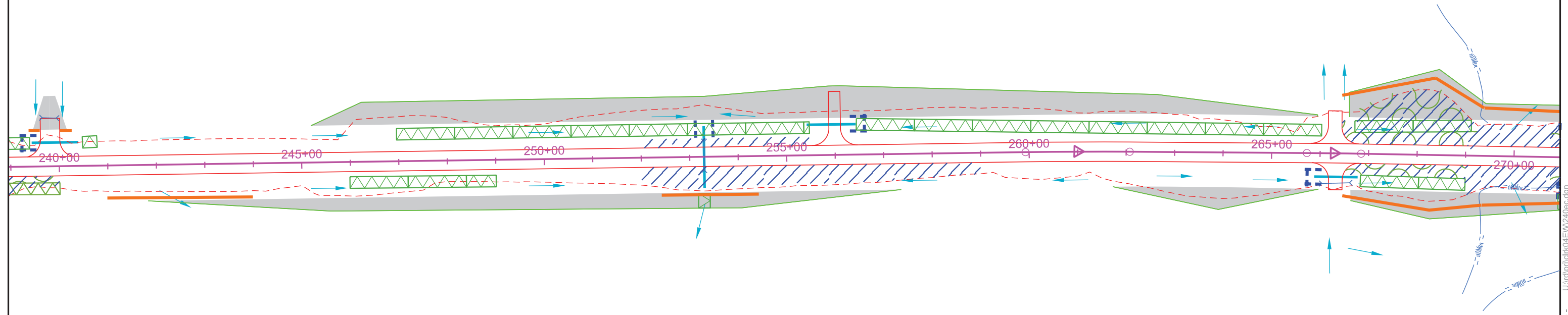
Plotting Date: 01/07/2025



Plot Scale - 1:200

Plotted From - TRPR13525

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Install Low Flow Silt Fence at the following locations:  
 270+00 to 273+00 L/R Perimeter control 600 Ft  
 280+00 to 284+75 R Perimeter control 475 Ft  
 287+00 to 292+50 L Perimeter control 550 Ft  
 298+50 to 300+00 R Perimeter control 150 Ft

Install Floating Silt Curtain along the banks at the following locations:  
 288+00 to 293+50 R 550 Ft

Install High Flow Silt Fence at the following locations:  
 271+06 L/R Inlet and Outlet ends of pipe (60 Ft each end) 120 Ft  
 273+40 R Inlet end of pipe 18 Ft  
 275+58 L Inlet end of pipe 18 Ft  
 289+49 L Across ditch at inlet end of pipe (30 Ft each side) 60 Ft  
 292+69 L Inlet end of pipe 18 Ft  
 299+09 R Inlet end of pipe 18 Ft  
 Around topsoil stockpiles--quantity and location to be determined

Utilize Surface Roughening at the following locations:  
 269+00 to 274+00 L Inslope 0.6 Acres  
 269+00 to 273+00 R Inslope 0.4 Acres  
 273+55 to 283+00 R Disturbed area 1.1 Acres  
 275+00 to 283+00 L Disturbed area 1.8 Acres

Install Type 3 Erosion Control Blanket at the following locations:  
 271+06 R Outlet end of pipe 53 SqYd  
 273+40 R Outlet end of pipe 53 SqYd  
 273+80 to 282+00 R Ditch bottom 1,458 SqYd  
 275+58 L Outlet end of pipe 53 SqYd  
 276+00 to 282+00 L Ditch bottom 1,067 SqYd  
 284+50 to 288+00 R Ditch bottom 633 SqYd  
 292+69 L Outlet end of pipe 53 SqYd  
 294+00 to 300+00 R Ditch bottom 835 SqYd  
 296+00 to 299+00 L Ditch bottom 533 SqYd

Apply Fiber Reinforced Matrix at the following locations:  
 270+85 to 273+15 R Inslope 0.6 Tons  
 270+85 to 274+00 L Inslope 0.5 Tons  
 273+55 to 283+00 R Inslope/Backslope 2.0 Tons  
 275+00 to 283+00 L Inslope/Backslope 1.3 Tons

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-PH 0025(81)158	D21	D36

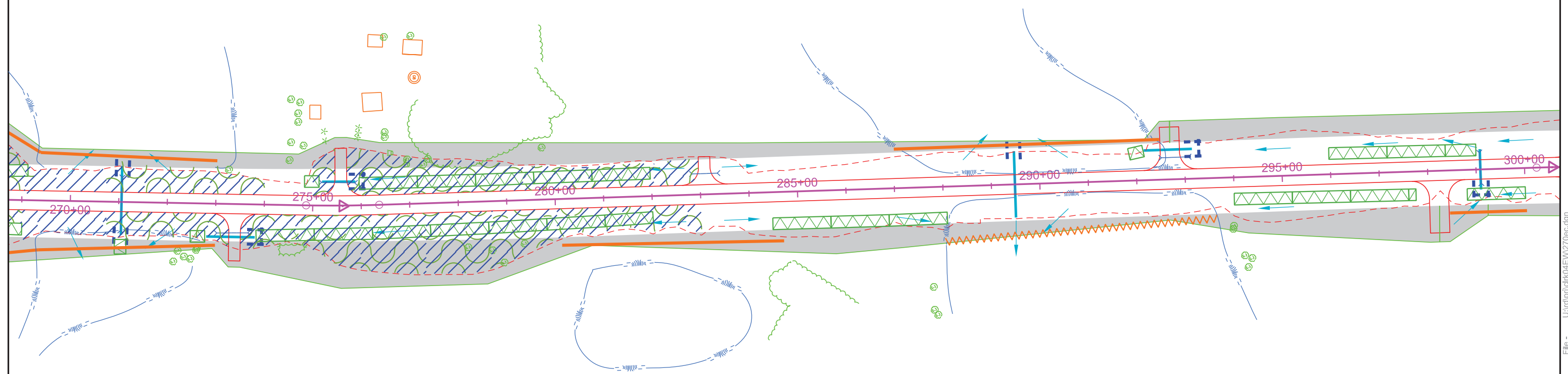
Plotting Date: 01/07/2025



Plot Scale - 1:200

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Install Low Flow Silt Fence at the following locations:  
 323+85 to 324+40 L Perimeter control 110 Ft  
 327+00 to 328+50 R Perimeter control 170 Ft

Install High Flow Silt Fence at the following locations:  
 308+22 R Inlet end of pipe 18 Ft  
 316+62 R Across ditch at inlet end of pipes 30 Ft  
 318+37 R Across ditch at inlet end of pipe 30 Ft  
 325+12 R Inlet end of pipe 18 Ft  
 Around topsoil stockpiles--quantity and location to be determined

Install Type 3 Erosion Control Blanket at the following locations:  
 308+22 R Outlet end of pipe 53 SqYd  
 310+00 to 330+00 R Ditch bottom 3,058 SqYd  
 310+00 to 316+00 L Ditch bottom 1,067 SqYd  
 318+37 L Outlet end of pipe 53 SqYd  
 322+00 to 324+00 L Ditch bottom 355 SqYd

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-PH 0025(81)158	D22	D36

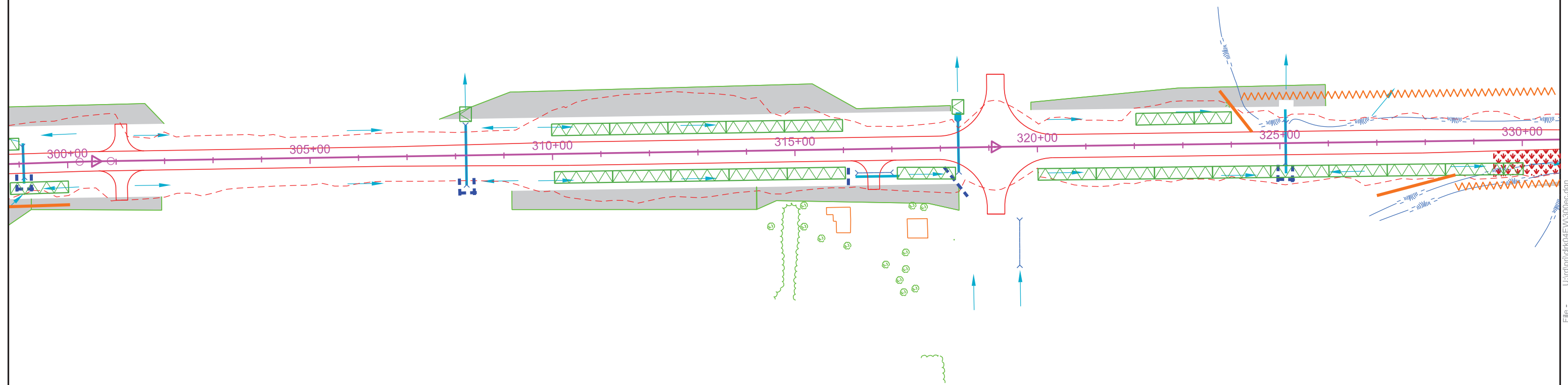
Plotting Date: 01/07/2025



Plot Scale - 1:200

Plotted From - TRPR13525

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Install Floating Silt Curtain along the banks of the lake at the following locations:  
324+10 to 340+80 L 1,670 Ft  
328+50 to 340+00 R 1,150 Ft

Install Low Flow Silt Fence at the following locations:  
354+15 to 361+00 L Perimeter control 685 Ft

Install High Flow Silt Fence at the following locations:  
335+94 R Across ditch at inlet end of pipe 30 Ft  
354+00 R Inlet end of pipe 18 Ft  
355+07 R Inlet end of pipe 18 Ft  
Around topsoil stockpiles--quantity and location to be determined

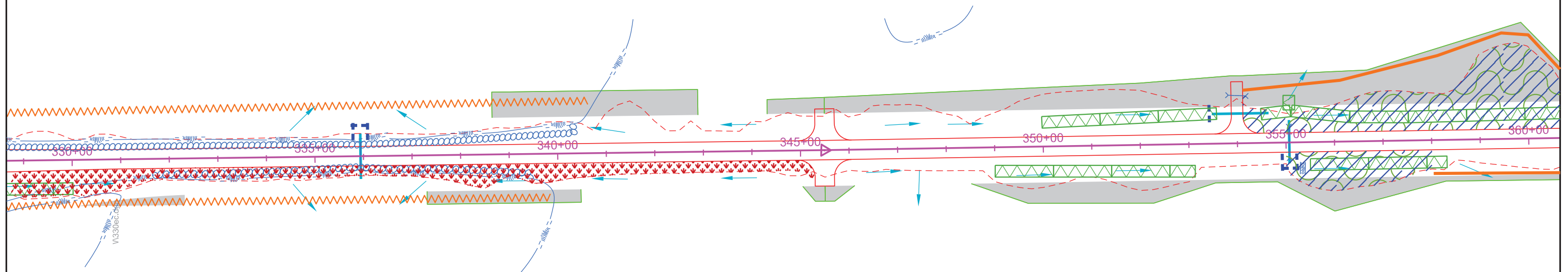
Utilize Surface Roughening at the following locations:  
354+10 to 361+00 L Disturbed area 1.8 Acres  
355+00 to 358+00 R Disturbed area 0.5 Acres

Install Type 3 Erosion Control Blanket at the following locations:  
349+00 to 353+00 R Ditch bottom 711 SqYd  
350+00 to 367+00 L Ditch bottom 2,871 SqYd  
355+50 to 358+25 R Ditch bottom 489 SqYd

Apply Fiber Reinforced Matrix at the following locations:  
354+10 to 361+00 L Inslope/Backslope 2.4 Tons  
355+00 to 358+00 R Inslope/Backslope 0.5 Tons

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-PH 0025(81)158	D23	D36

Plotting Date: 01/07/2025



Install Low Flow Silt Fence at the following locations:  
 358+00 to 361+00 R Perimeter control 300 Ft  
 365+00 R Perimeter control 75 Ft  
 368+00 L Perimeter control 75 Ft  
 375+20 R Perimeter control 65 Ft  
 375+20 to 388+15 R Perimeter control 1,300 Ft  
 375+50 L Perimeter control 125 Ft

Install High Flow Silt Fence at the following locations:  
 364+16 L Across ditch at inlet end of pipe 30 Ft  
 370+61 L Across ditch at inlet end of pipe (30 Ft each side) 60 Ft  
 373+62 R Inlet end of pipe 18 Ft  
 380+30 L Inlet end of pipe 18 Ft  
 Around topsoil stockpiles--quantity and location to be determined

Utilize Surface Roughening at the following locations:  
 364+00 to 367+00 L Backslope 0.4 Acres  
 372+00 to 394+00 L Disturbed area 3.3 Acres  
 372+00 to 388+00 R Inslope 1.5 Acres

Install Type 3 Erosion Control Blanket at the following locations:  
 364+16 R Outlet end of pipe 53 SqYd  
 370+61 L Outlet end of pipe 53 SqYd  
 373+62 R Outlet end of pipe 53 SqYd  
 375+75 to 394+00 L Ditch bottom 3,015 SqYd  
 380+30 R Outlet end of pipe 53 SqYd

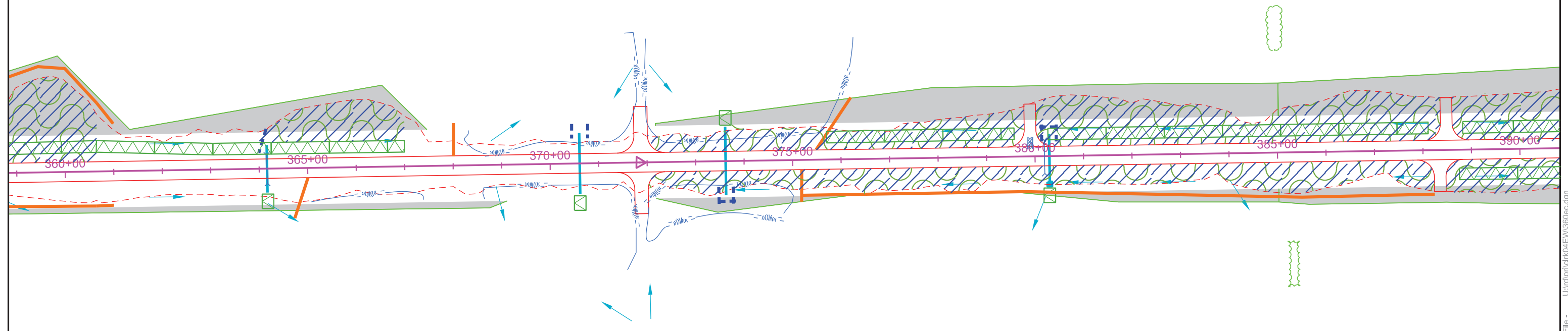
Apply Fiber Reinforced Matrix at the following locations:  
 364+00 to 367+00 L Backslope 0.6 Tons  
 372+00 to 388+30 L Inslope/Backslope 3.4 Tons  
 372+00 to 388+30 R Inslope 2.3 Tons

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-PH 0025(81)158	D24	D36

Plotting Date: 01/07/2025



Plot Scale - 1:200



Plotted From - TRPR13525

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Install Low Flow Silt Fence at the following locations:  
417+00 to 419+50 L/R Perimeter control 500 Ft

Install High Flow Silt Fence at the following locations:  
396+63 L Across ditch at inlet end of pipe (30 Ft each side) 60 Ft  
411+37 L Inlet end of pipe 18 Ft  
411+37 R Inlet end of pipe 18 Ft  
418+40 L/R Inlet and Outlet ends of pipe (60 Ft each end) 120 Ft  
Around topsoil stockpiles--quantity and location to be determined

Utilize Surface Roughening at the following locations:  
388+40 to 393+85 R Disturbed area 0.8 Acres  
400+00 to 408+00 L Disturbed area 1.6 Acres  
416+00 to 419+00 L/R Disturbed area 0.8 Acres

Install Type 3 Erosion Control Blanket at the following locations:  
388+80 to 393+50 R Ditch bottom 862 SqYd  
396+63 R Outlet end of pipe 53 SqYd  
405+00 to 410+20 R Ditch bottom 925 SqYd  
405+00 to 411+00 L Ditch bottom 4,800 SqYd  
411+37 L Outlet end of pipe 53 SqYd  
411+37 R Outlet end of pipe 53 SqYd  
418+40 R Outlet end of pipe 53 SqYd

Apply Fiber Reinforced Matrix at the following locations:  
388+40 to 393+85 L/R Inslope/Backslope 2.4  
400+00 to 408+00 L Inslope/Backslope 2.1 Tons  
416+00 to 419+00 L/R Inslope 1.2 Tons

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-PH 0025(81)158	D25	D36

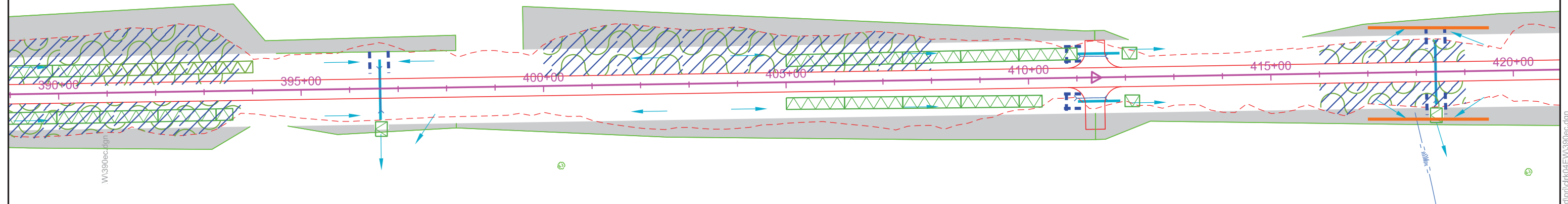
Plotting Date: 01/07/2025



Plot Scale - 1:200

Plotted From - TRPR13525

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Install Low Flow Silt Fence at the following locations:  
425+00 to 435+50 R Perimeter control 1,050 Ft

Install High Flow Silt Fence at the following locations:  
424+55 L Inlet end of pipe 18 Ft  
438+85 L/R Inlet and outlet ends of pipe (60 Ft each side) 120 Ft  
Around topsoil stockpiles--quantity and location to be determined

Utilize Surface Roughening at the following locations:  
426+00 to 436+00 L Disturbed area 3.2 Acres  
426+50 to 428+25 R Disturbed area 0.2 Acres  
440+85 to 445+50 R Disturbed area 0.5 Acres

Install Type 3 Erosion Control Blanket at the following locations:  
420+00 to 430+00 L Ditch bottom 1,778 SqYd  
420+00 to 426+25 R Ditch bottom 1,111 SqYd  
424+55 R Outlet end of pipe 53 SqYd  
438+85 R Outlet end of pipe 53 SqYd

Apply Fiber Reinforced Matrix at the following locations:  
426+00 to 436+00 L Inslope/Backslope 4.1 Tons  
426+50 to 428+25 R Inslope 0.3 Tons  
440+85 to 445+50 Backslope 0.8 Tons

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-PH 0025(81)158	D26	D36

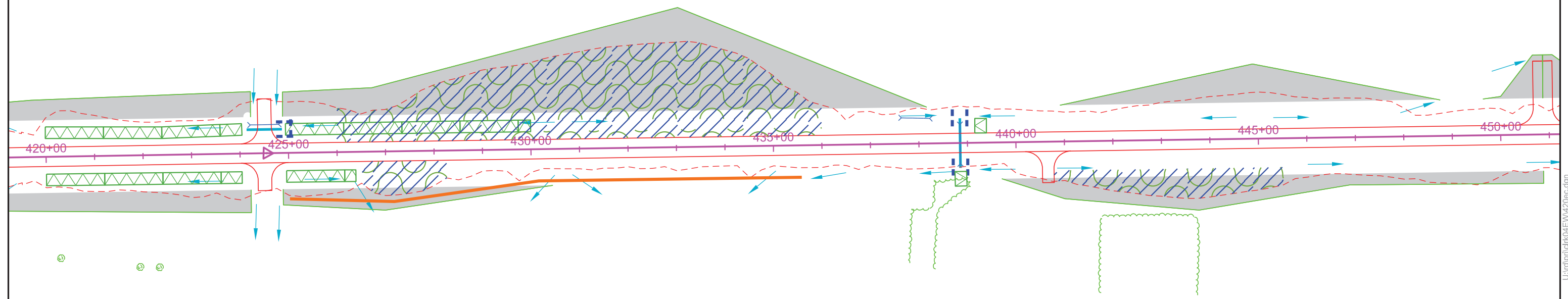
Plotting Date: 01/07/2025



Plot Scale - 1:200

Plotted From - TRPR13525

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**Install Low Flow Silt Fence at the following locations:**

- 451+00 to 455+50 L Perimeter control 450 Ft
- 458+60 to 460+50 L Perimeter control 200 Ft
- 465+35 to 467+90 L Perimeter control 260 Ft

**Install Floating Silt Curtain along the banks of the lake at the following locations:**

- 460+40 to 465+50 L 525 Ft

**Install High Flow Silt Fence at the following locations:**

- 451+76 R Across ditch at inlet end of pipe (30 Ft each side) 60 Ft
- 464+62 R Inlet end of pipe 18 Ft
- 476+06 R Across ditch at inlet end of pipe (30 Ft each side) 60 Ft
- Around topsoil stockpiles--quantity and location to be determined

**Utilize Surface Roughening at the following locations:**

- 459+50 to 465+50 L Inslope 1 Acre

**Install Type 3 Erosion Control Blanket at the following locations:**

- 451+76 L Outlet end of pipe 53 SqYd
- 463+25 to 467+75 R Ditch bottom 800 SqYd
- 475+25 to 476+06 R Ditch bottom 144 SqYd
- 476+06 L Outlet end of pipe 53 SqYd

**Apply Fiber Reinforced Matrix at the following locations:**

- 459+50 to 465+50 L Inslope 1.5 Tons

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-PH 0025(81)158	D27	D36

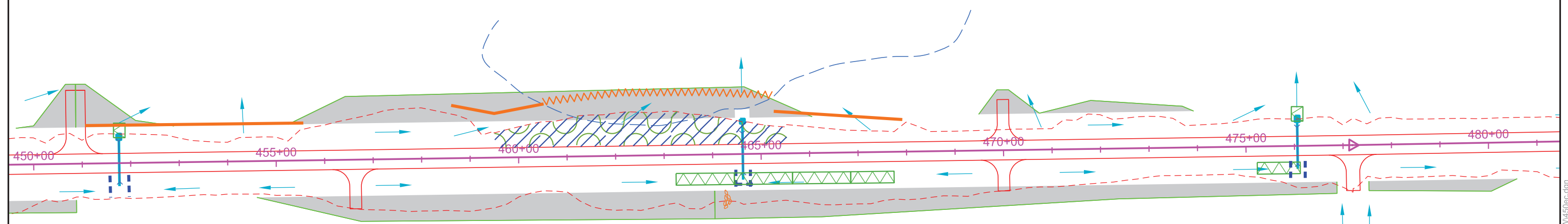
Plotting Date: 01/07/2025



Plot Scale - 1:200

Plotted From - TRPR13525

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Install Low Flow Silt Fence at the following locations:  
487+00 to 499+50 L Perimeter control 1,400 Ft

Install High Flow Silt Fence at the following locations:  
482+67 L/R Inlet and Outlet ends of pipe (60 Ft each end) 120 Ft  
486+13 L Inlet end of pipe 18 Ft  
497+89 R Inlet end of pipe 18 Ft  
506+64 L Inlet end of pipe 18 Ft  
Around topsoil stockpiles--quantity and location to be determined

Utilize Surface Roughening at the following locations:  
498+00 to 492+00 L Disturbed area 0.5 Acres  
493+00 to 498+50 L Disturbed area 1.0 Acres  
498+00 to 503+00 R Disturbed area 0.6 Acres  
498+50 to 503+00 L Disturbed area 0.5 Acres

Install Type 3 Erosion Control Blanket at the following locations:  
482+67 L Outlet ends of pipes 159 SqYd  
486+13 L Outlet end of pipe 53 SqYd  
486+50 to 492+00 L Ditch bottom 978 SqYd  
497+89 L Outlet end of pipe 53 SqYd  
498+05 to 503+00 R Ditch bottom 880 SqYd  
498+50 to 503+00 L Ditch bottom 800 SqYd  
506+64 R Outlet end of pipe 53 SqYd

Apply Fiber Reinforced Matrix at the following locations:  
498+00 to 492+00 L Backslope 0.8 Tons  
493+00 to 498+50 L Inslope 1.5 Tons  
498+00 to 503+00 R Backslope 0.9 Tons  
498+50 to 503+00 L Backslope 0.8 Tons

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-PH 0025(81)158	D28	D36

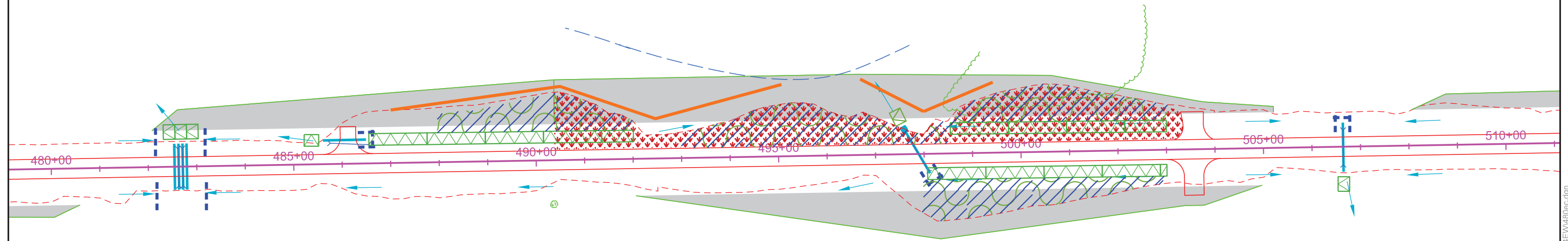
Plotting Date: 01/07/2025



Plot Scale - 1:200

Plotted From - TRPR13525

File - U:\trproj\drh04\EW480ec.dgn



Install High Flow Silt Fence at the following locations:  
 516+61 R Inlet end of pipe 18 Ft  
 525+62 L Inlet end of pipe 18 Ft  
 Around topsoil stockpiles--quantity and location to be determined

Install Type 3 Erosion Control Blanket  
 at the following locations:  
 516+61 L Outlet end of pipe 53 SqYd  
 525+62 R Outlet end of pipe 53 SqYd

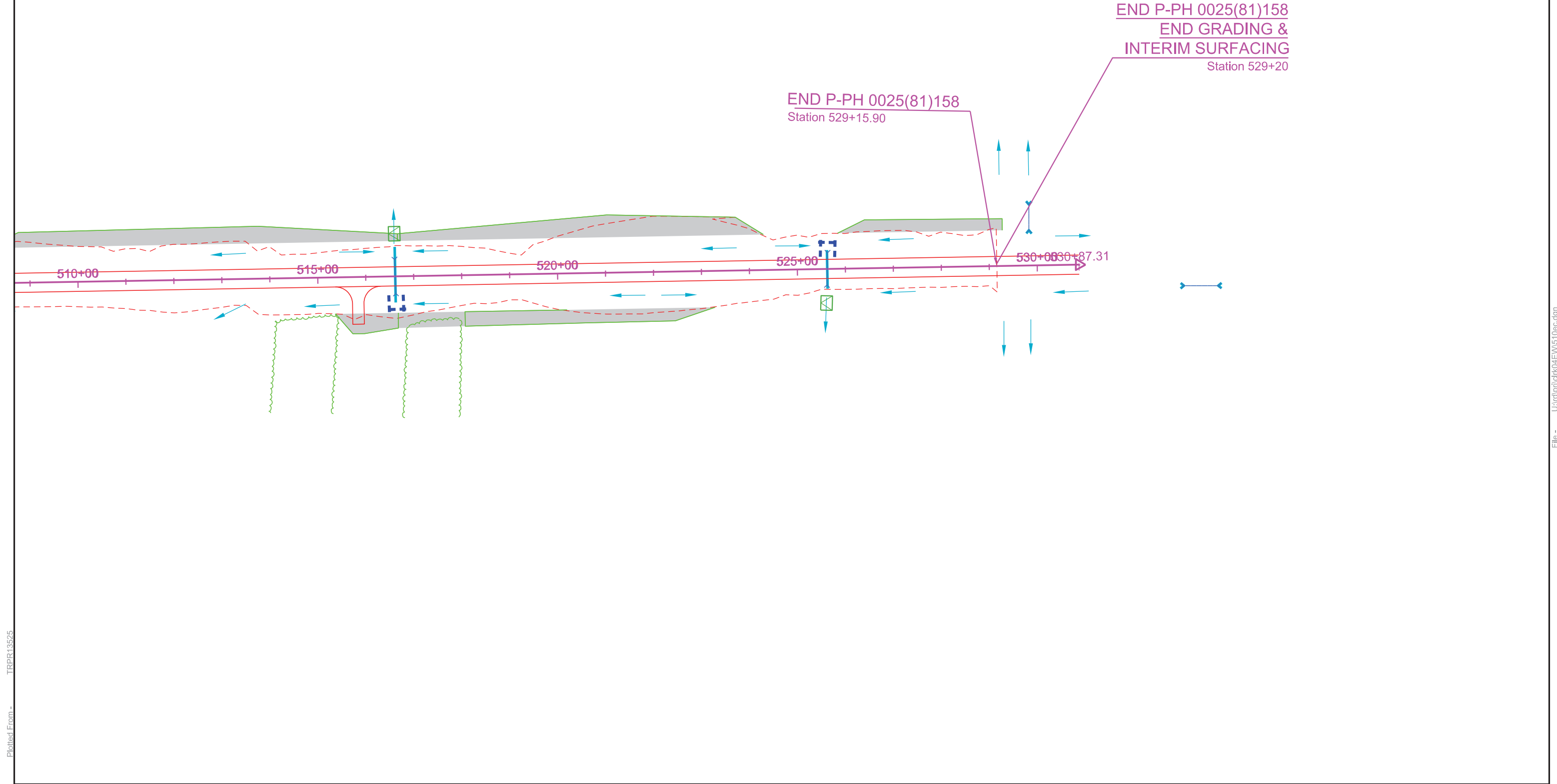
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-PH 0025(81)158	D29	D36

Plotting Date: 01/07/2025



Plot Scale - 1:200

Plotted From - TRPR13525



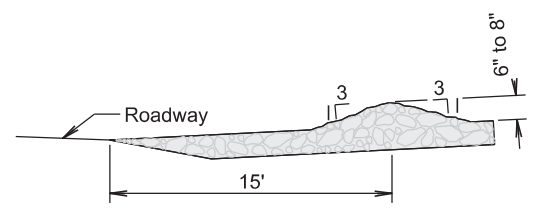
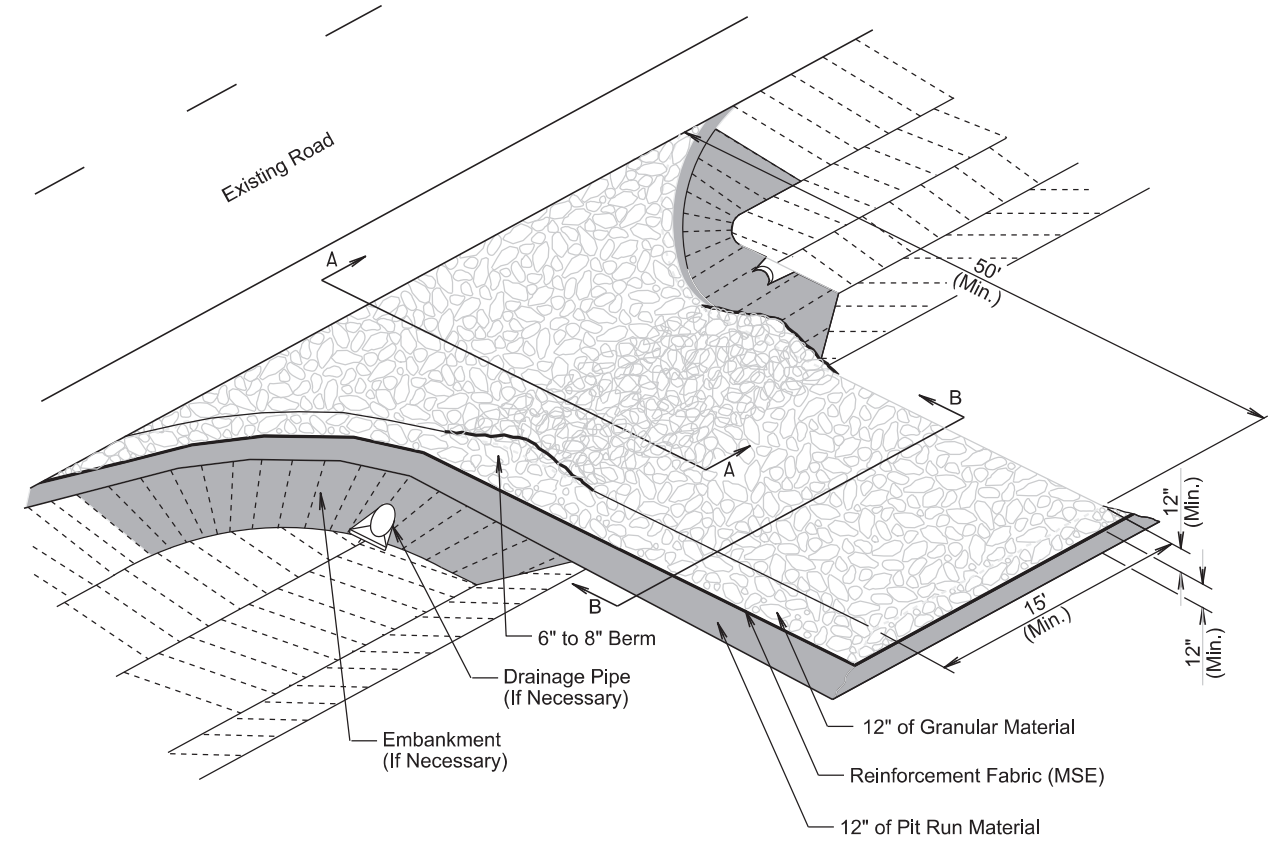
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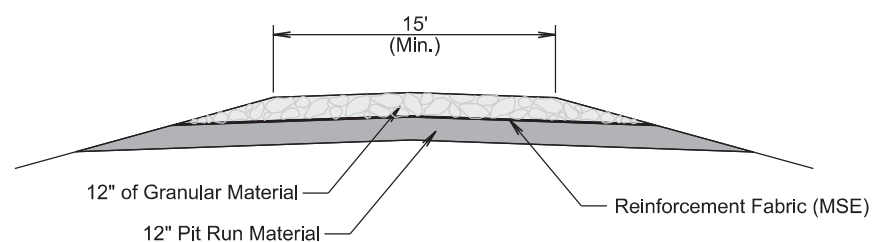
# SDDOT CONSTRUCTION ENTRANCE

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P-PH 0025(81)158	D31	D36

Plotting Date: 01/07/2025



SECTION A-A

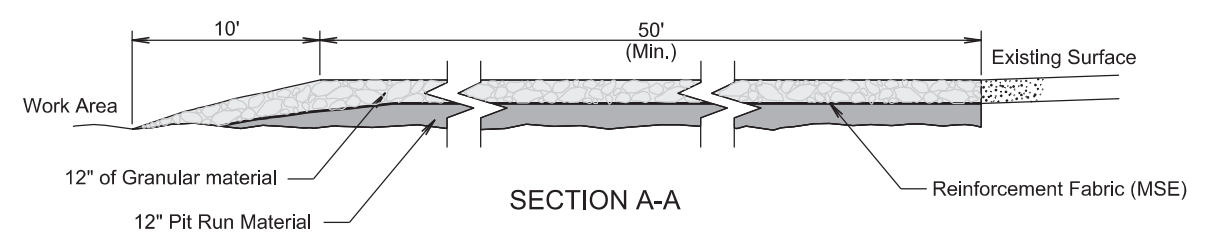
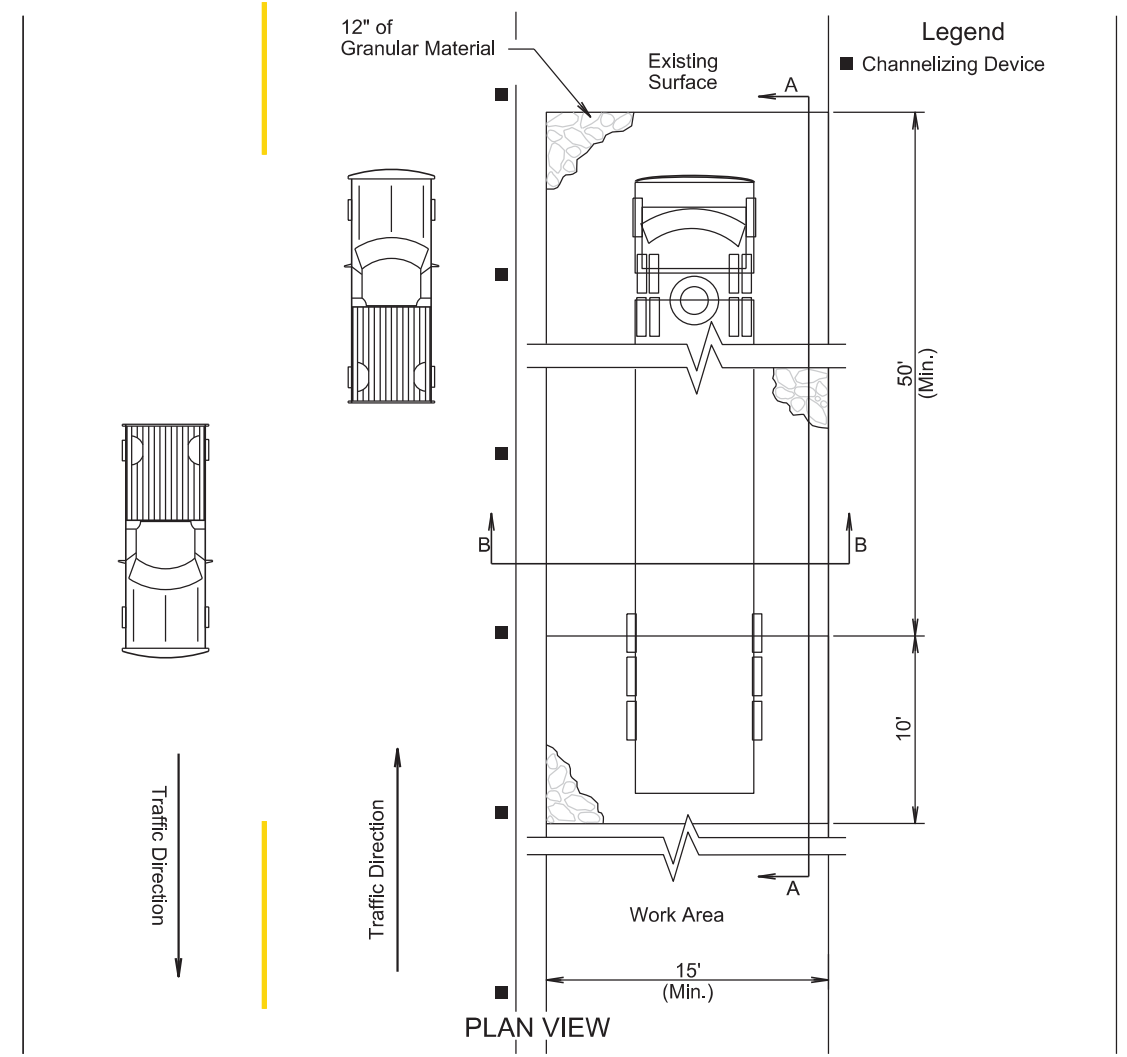


SECTION B-B

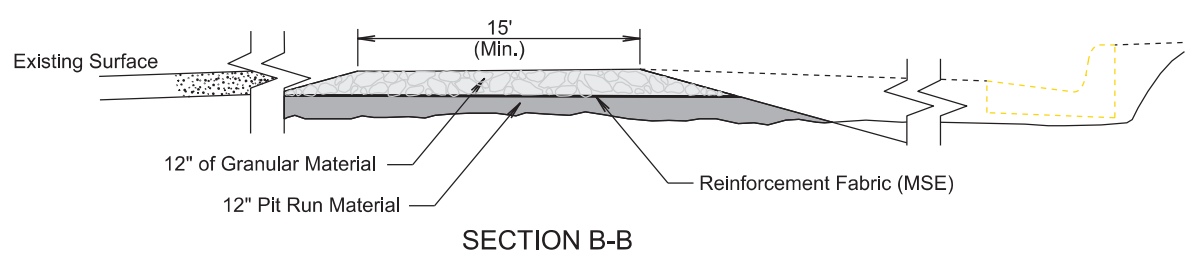
**GENERAL NOTES:**

- 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 must be pit run material.

## TRANSVERSE TO ROADWAY



SECTION A-A



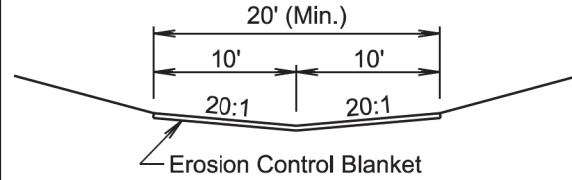
SECTION B-B

## PARALLEL TO ROADWAY

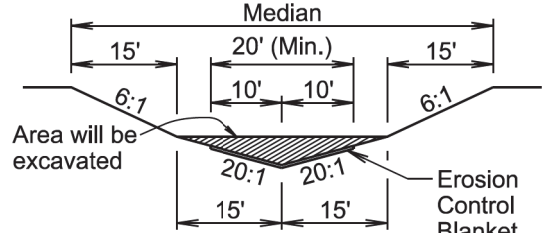
Plot Scale - 1:200

Plotted From - TRPR13525

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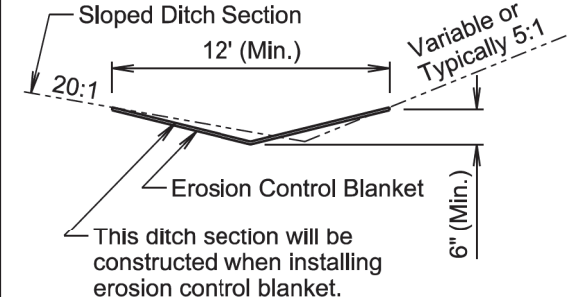


**STANDARD DITCH SECTION**



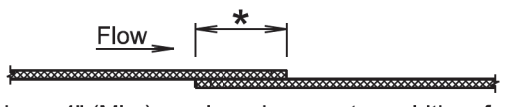
**MEDIAN SECTION**

The median will be shaped to the limits shown in this detail where the erosion control blanket will be placed.



**SLOPED DITCH SECTION**

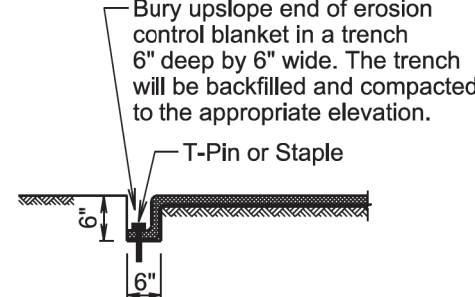
This ditch section will be constructed when installing erosion control blanket.



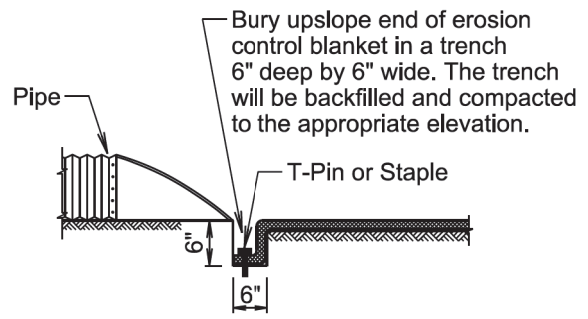
**OVERLAP DETAIL**

\* Use a 4" (Min.) overlap wherever two widths of erosion control blanket are applied side by side.

\* Use a 6" (Min.) overlap wherever one roll of erosion control blanket ends and another begins.



**TRENCH DETAIL**



**PIPE END DETAIL**

**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

<i>Published Date: 2025</i>	<b>S D D O T</b>	<b>EROSION CONTROL BLANKET</b>	PLATE NUMBER <b>734.01</b>
			Sheet 1 of 1

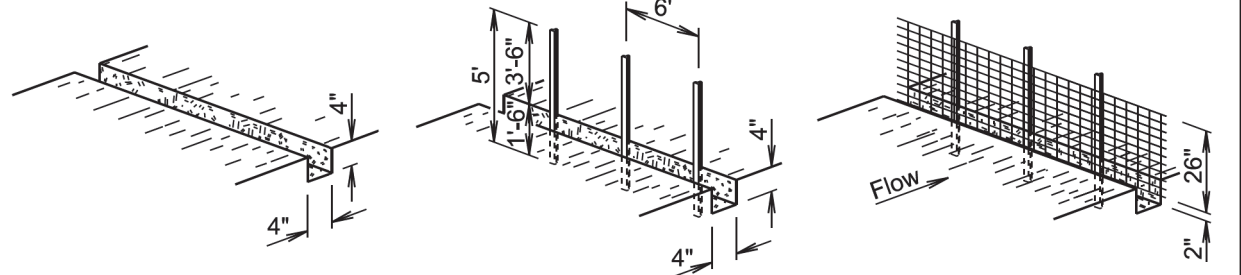
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Plotted From - TRPR13525

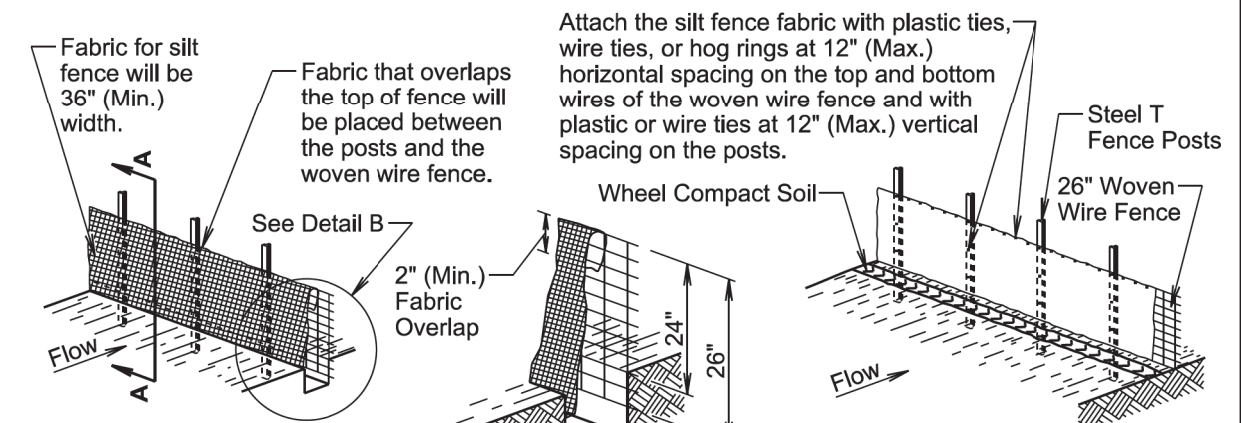
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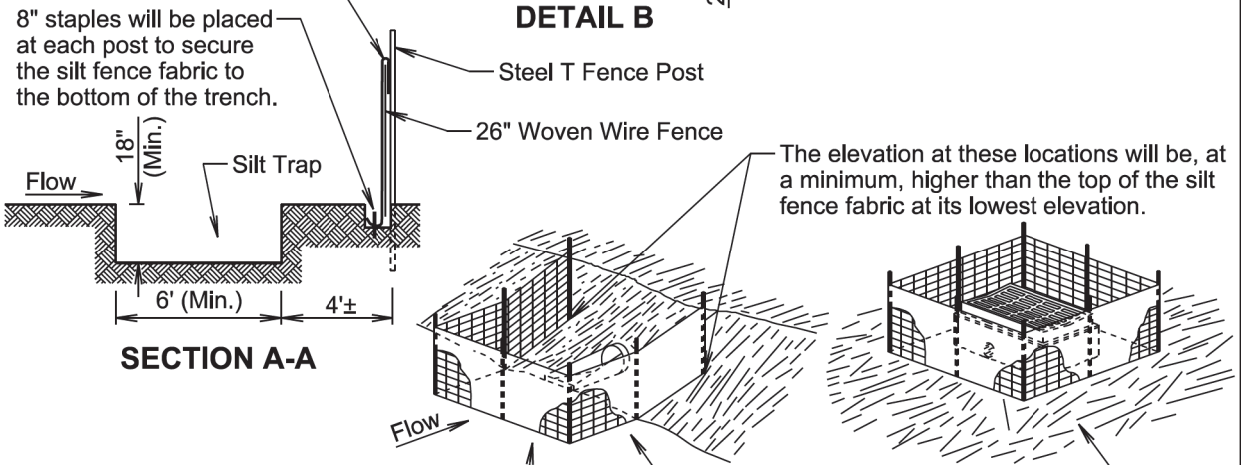
### MANUAL LOW FLOW SILT FENCE INSTALLATION



- EXCAVATE TRENCH
- DRIVE STEEL T FENCE POSTS
- ATTACH 26" WOVEN WIRE FENCE TO POSTS



- ATTACH SILT FENCE FABRIC
- BACKFILL TRENCH AND WHEEL COMPACT SOIL



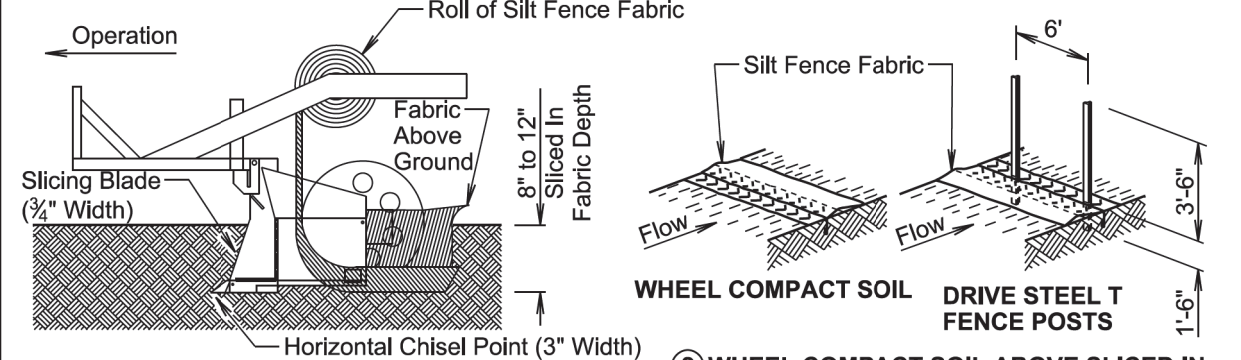
The silt fence length and width may be adjusted due to a larger pipe, multiple pipe, or other circumstances during construction as determined by the Engineer.

Post spacing will be 3' for these types of applications of silt fence. All other components of the silt fence will be the same as shown above.

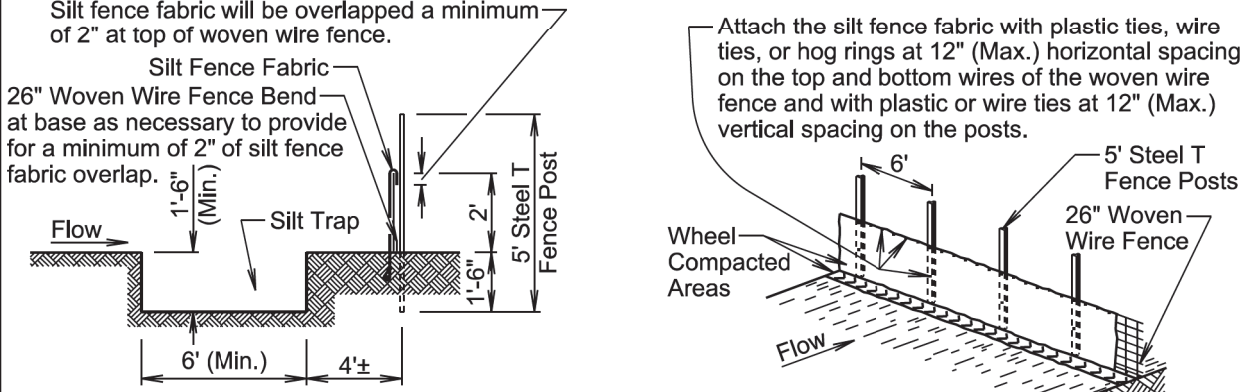
February 14, 2020

<b>S D D O T</b>	<b>LOW FLOW SILT FENCE AND SILT TRAP</b>	PLATE NUMBER <b>734.04</b>
	Published Date: 2025	Sheet 1 of 2

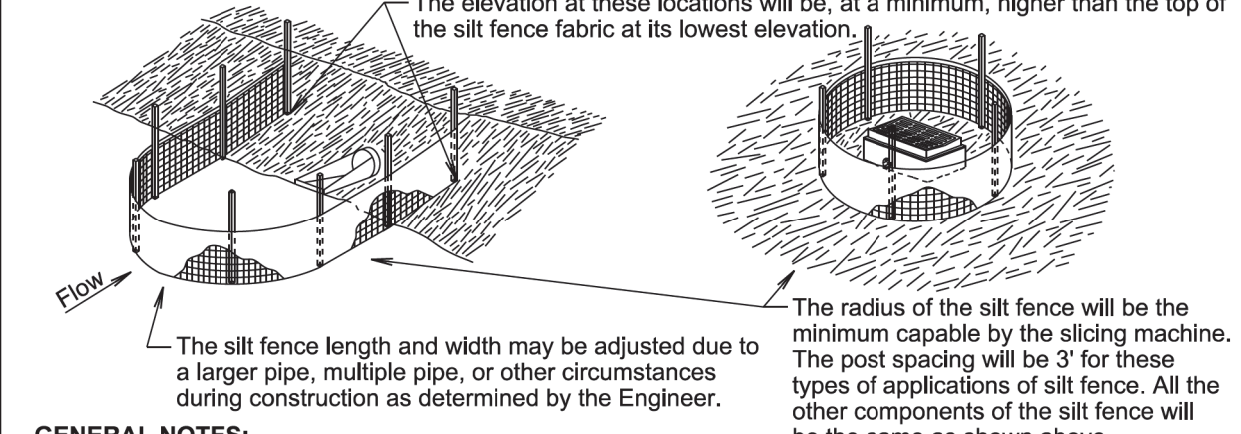
### MACHINE SLICED LOW FLOW SILT FENCE INSTALLATION



- INSTALL SILT FENCE FABRIC BY MACHINE SLICING METHOD.
- WHEEL COMPACT SOIL ABOVE SLICED IN PORTION OF FABRIC AND THEN DRIVE STEEL T FENCE POSTS.



- ATTACH 26" WOVEN WIRE FENCE TO POSTS AND ATTACH SILT FENCE FABRIC.



**GENERAL NOTES:**

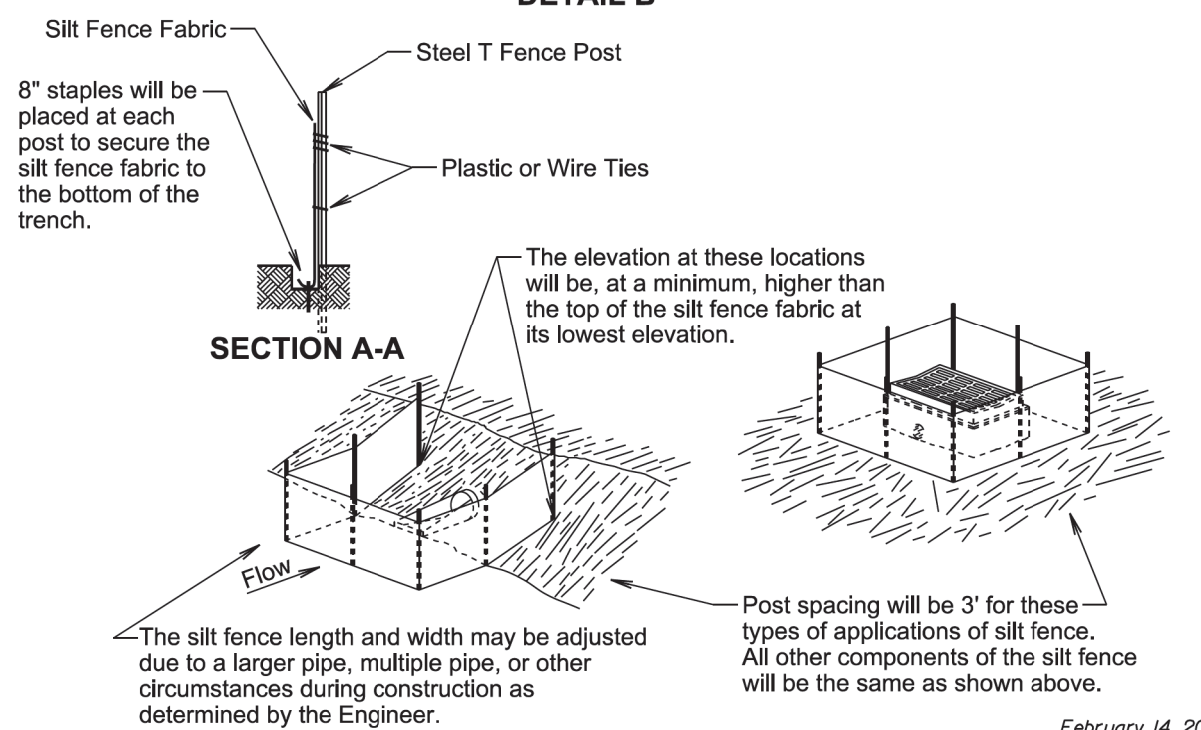
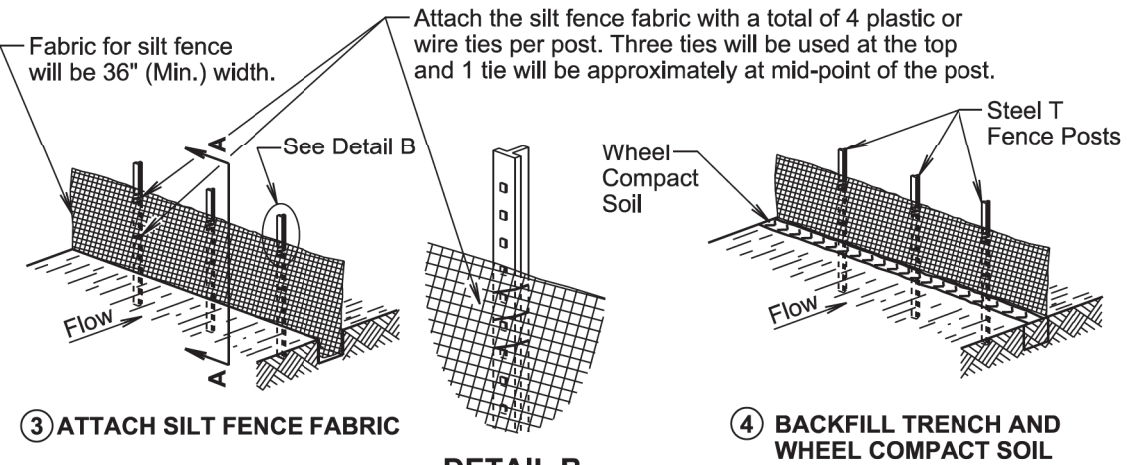
A silt trap will be provided when specified by a plan note. All costs for constructing the silt trap will be incidental to the contract unit price per cubic yard for "Silt Trap".

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

<b>S D D O T</b>	<b>LOW FLOW SILT FENCE AND SILT TRAP</b>	PLATE NUMBER <b>734.04</b>
	Published Date: 2025	Sheet 2 of 2

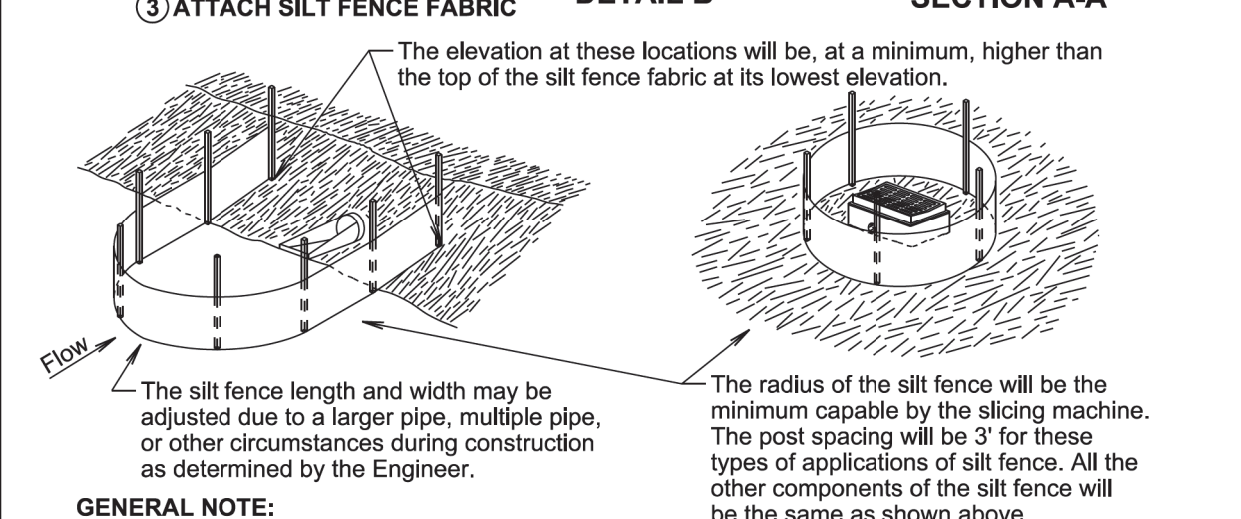
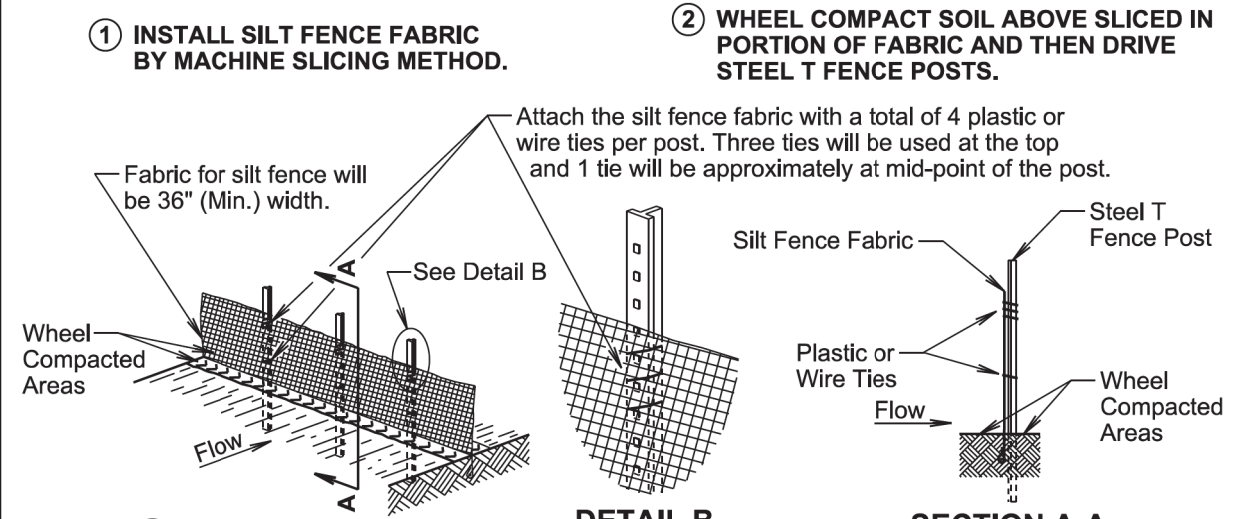
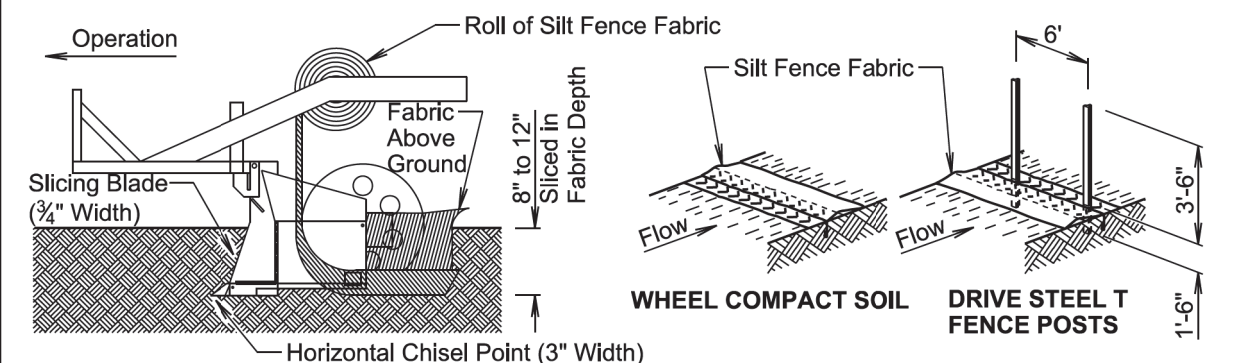
### MANUAL HIGH FLOW SILT FENCE INSTALLATION



February 14, 2020

Published Date: 2025	S D D O T	HIGH FLOW SILT FENCE	PLATE NUMBER 734.05
			Sheet 1 of 2

### MACHINE SLICED HIGH FLOW SILT FENCE INSTALLATION



**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.

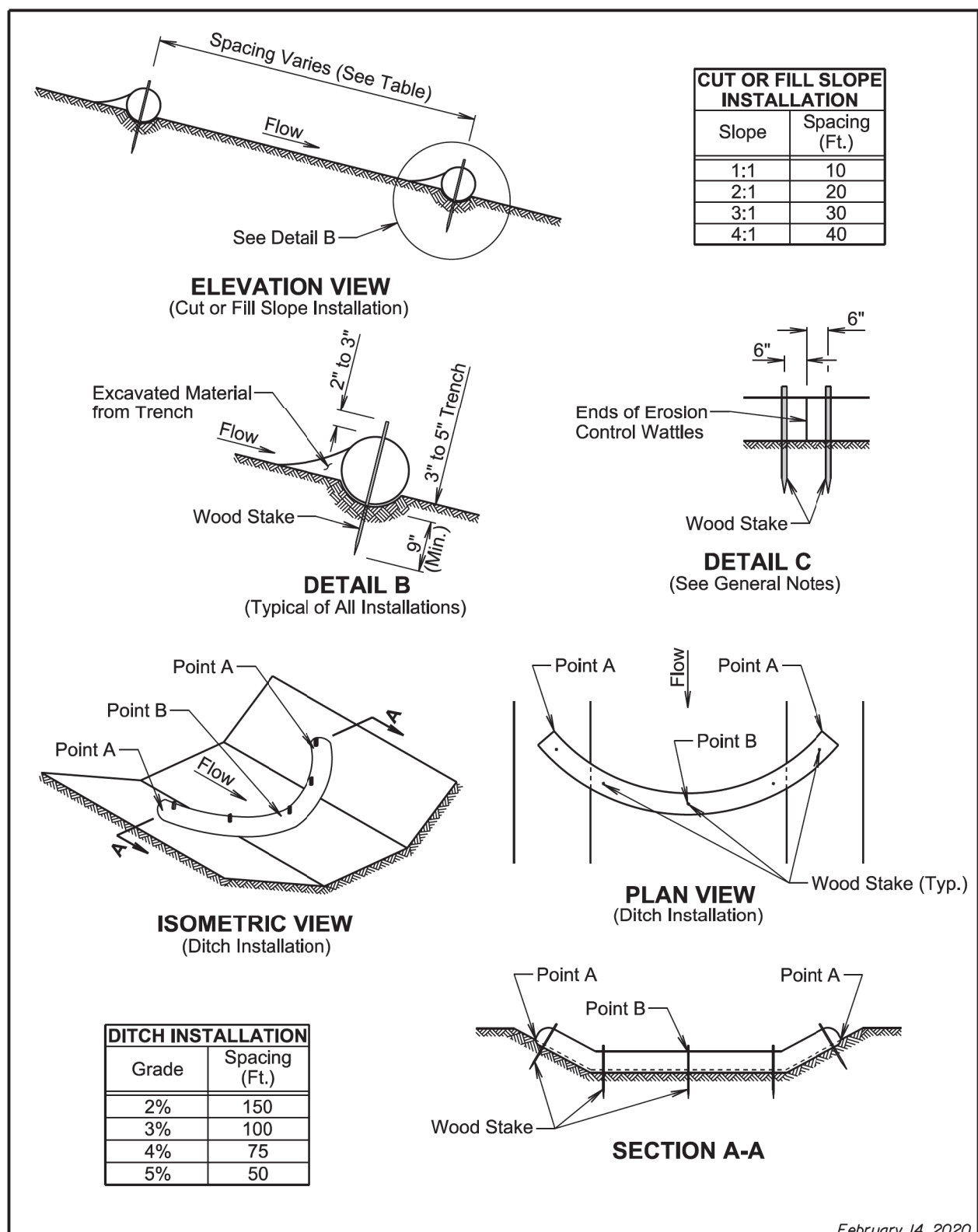
February 14, 2020

Published Date: 2025	S D D O T	HIGH FLOW SILT FENCE	PLATE NUMBER 734.05
			Sheet 2 of 2

Plot Scale - 1:200

Plotted From - TRPR13525

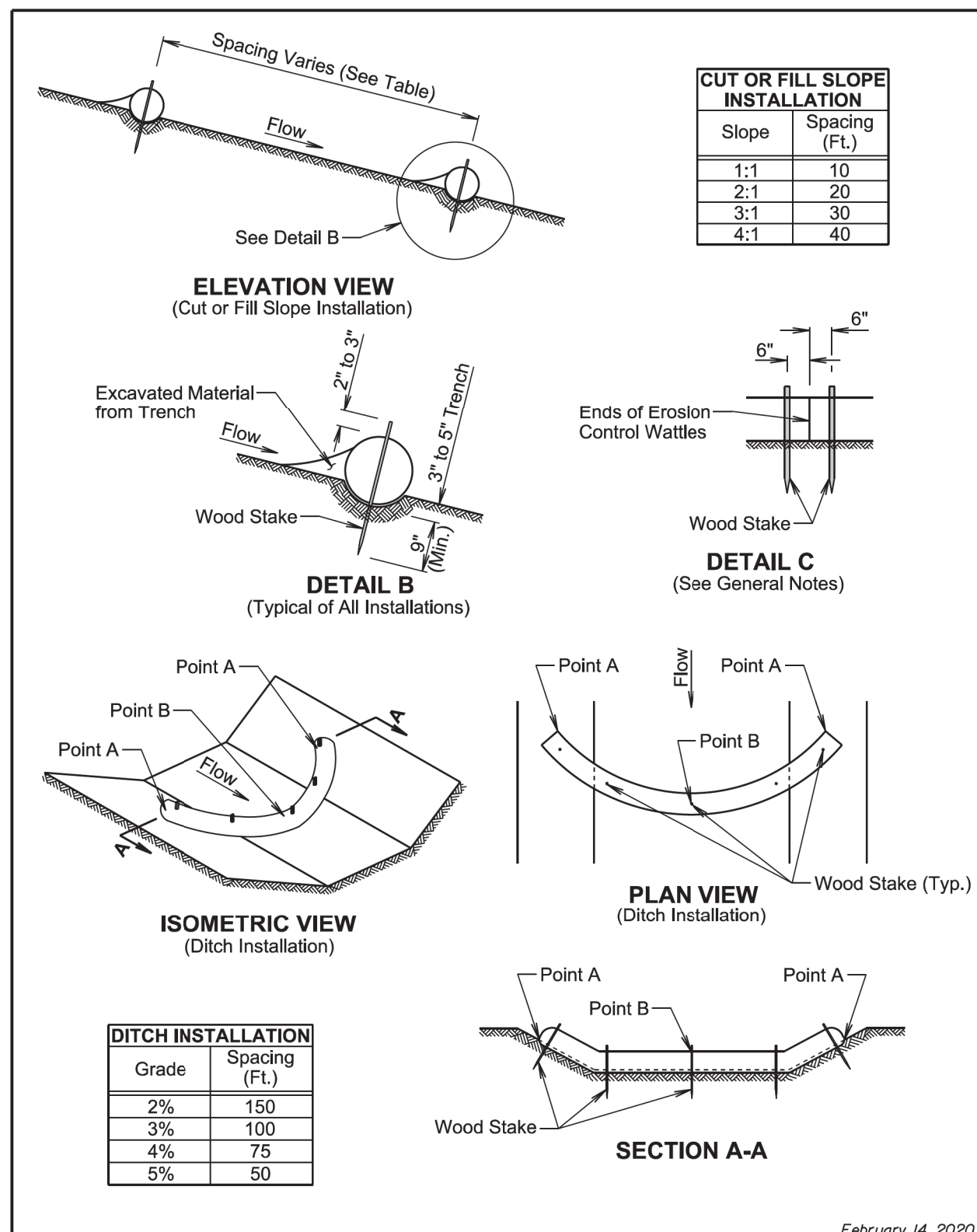
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February 14, 2020

<b>S D D O T</b>	<b>EROSION CONTROL WATTLE</b>	PLATE NUMBER <b>734.06</b>
		Sheet 1 of 2

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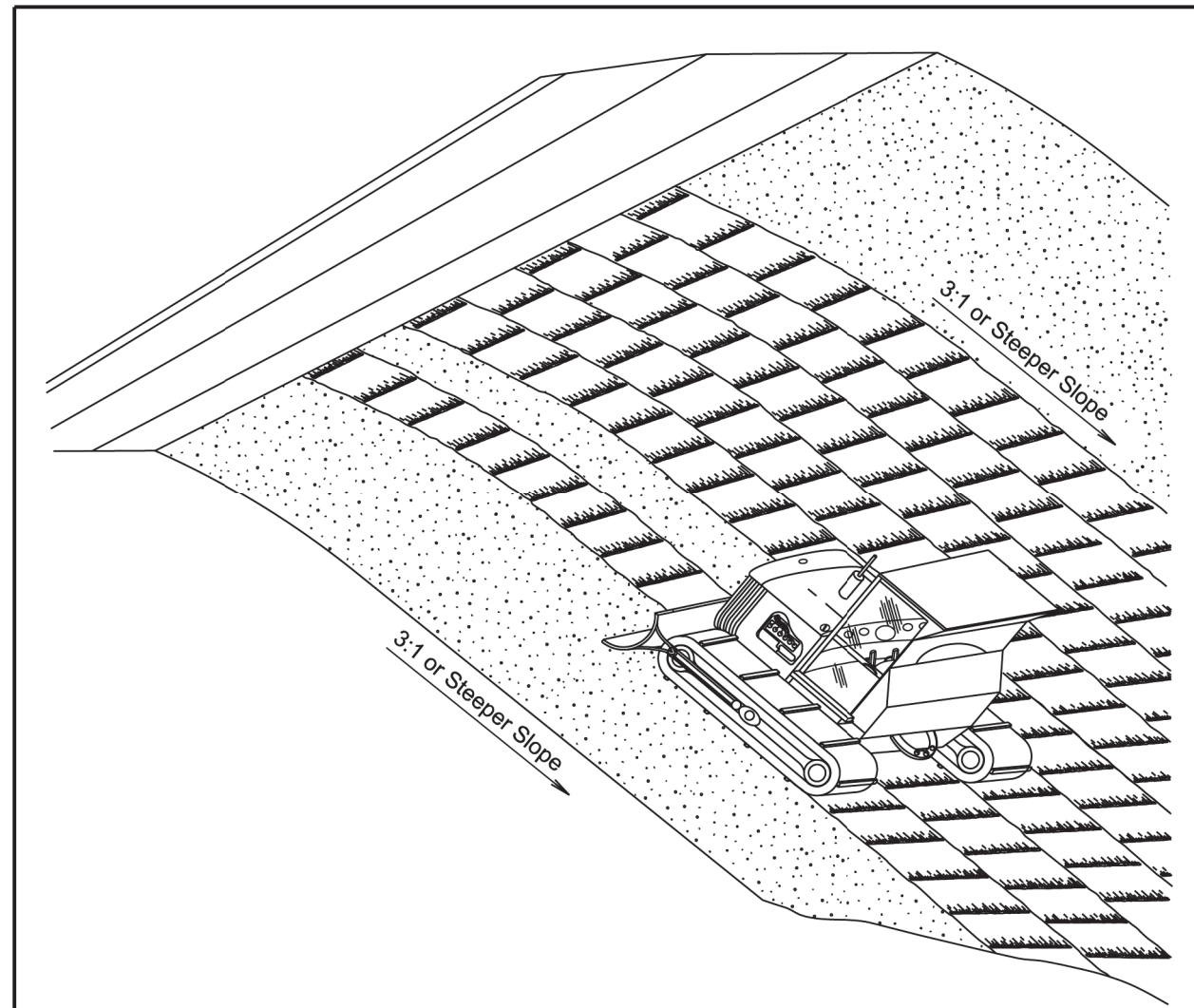
<b>S D D O T</b>	<b>EROSION CONTROL WATTLE</b>	PLATE NUMBER <b>734.06</b>
		Sheet 1 of 2

Published Date: 2025

Plot Scale - 1:200

Plotted From - TRPR13525

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**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".

February 14, 2020

<i>Published Date: 2025</i>	<b>S D D O T</b>	<b>SURFACE ROUGHENING</b>	<i>PLATE NUMBER</i> <b>734.25</b>
			<i>Sheet 1 of 1</i>