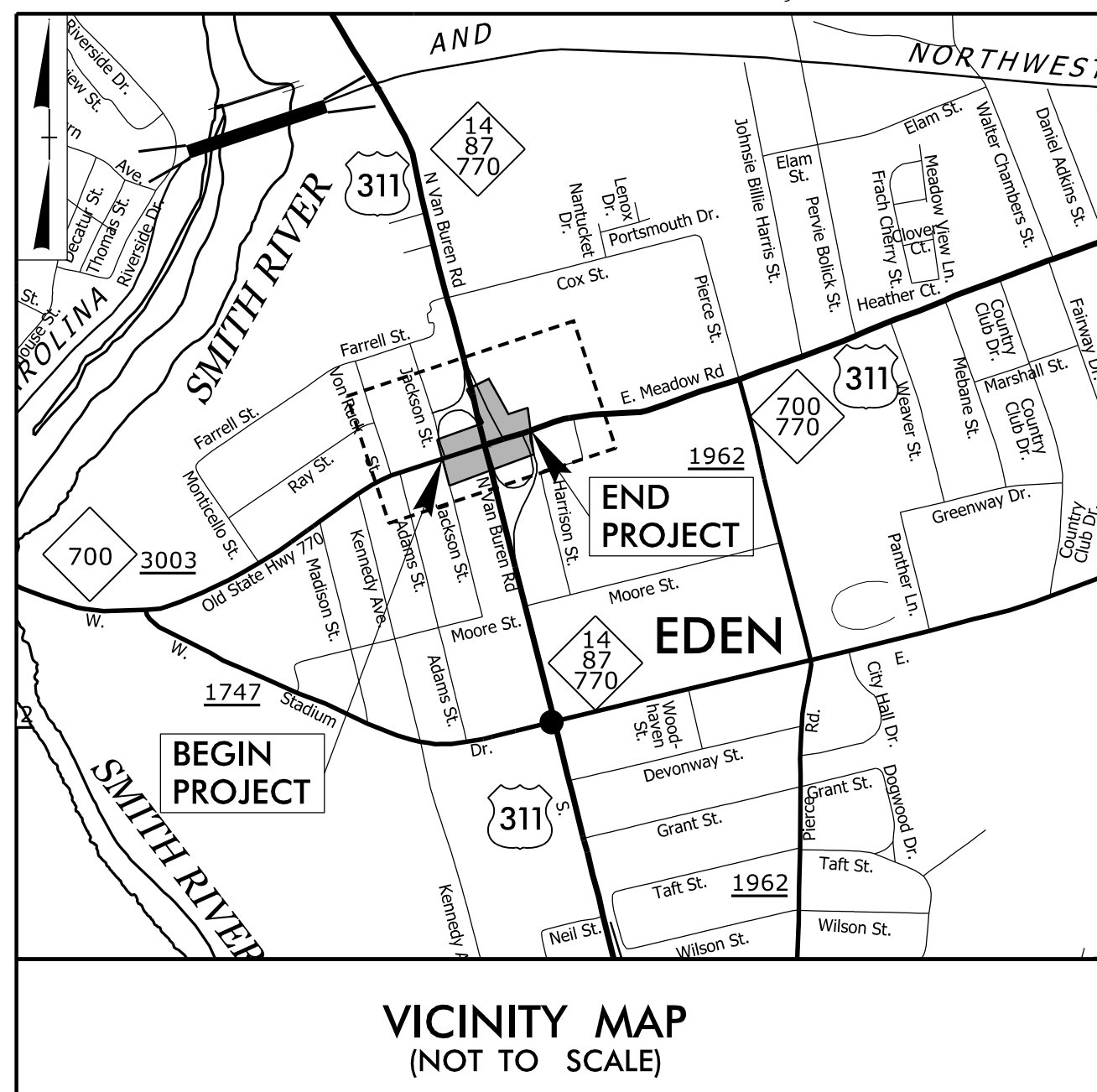


TIP PROJECT: B-5737

See Sheet 1A For Index Of Sheet
See Sheet 1B For Conventional Symbols



VICINITY MAP
(NOT TO SCALE)

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

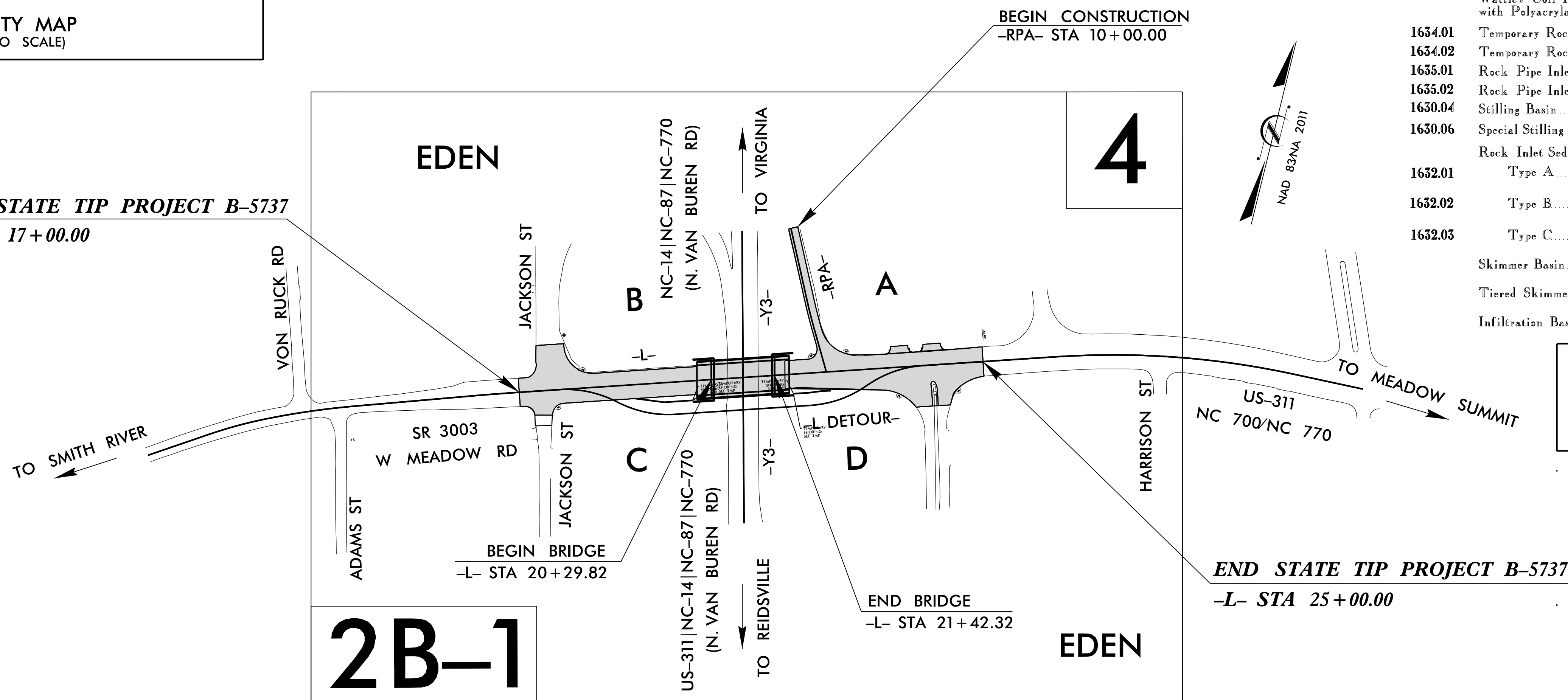
PLAN FOR PROPOSED HIGHWAY EROSION CONTROL

ROCKINGHAM COUNTY

**LOCATION: REPLACE BRIDGE NO.108 OVER US 311/NC 14/NC 87/NC 770
ON US 311/NC 14/NC 87/NC 770, SR 3003 (W. MEADOW RD)**

TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURE

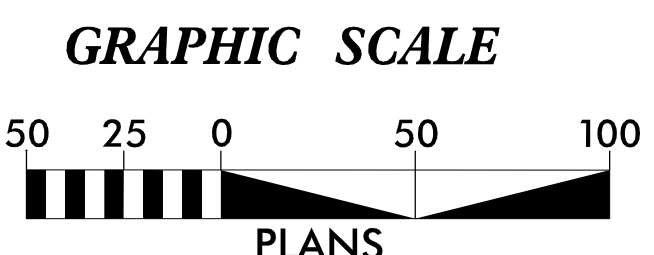
BEGIN STATE TIP PROJECT B-5737
-L- STA 17+00.00



EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TS
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	III III III
1622.01	Temporary Berms and Slope Drains	— T —
1630.02	Silt Basin Type B	▨
1633.01	Temporary Rock Silt Check Type-A	▨
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	▨
1633.02	Temporary Rock Silt Check Type-B	▨
	Wattle/Coir Fiber Wattle	— W —
	Wattle/Coir Fiber Wattle with Polyacrylamide (PAM)	— W —
1654.01	Temporary Rock Sediment Dam Type-A	▨
1654.02	Temporary Rock Sediment Dam Type-B	▨
1635.01	Rock Pipe Inlet Sediment Trap Type-A	⊓
1635.02	Rock Pipe Inlet Sediment Trap Type-B	⊓
1630.04	Stilling Basin	▭
1630.06	Special Stilling Basin	▭
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	▭
	Tiered Skimmer Basin	▭
	Infiltration Basin	▭

**THIS PROJECT CONTAINS
EROSION CONTROL PLANS
FOR CLEARING AND
GRUBBING PHASE OF
CONSTRUCTION.**



**THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH
THE APPLICABLE REGULATIONS SET FORTH BY THE NCG-010000
GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019
AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF
ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.**

Prepared in the Office of:
MOFFATT & NICHOL
4700 FALLS OF NEUSE ROAD, SUITE 300
RALEIGH, NORTH CAROLINA 27609
(919)781-4626 PHONE (919)781-4869 FAX

Designed by:
JEREMY SMITHHEART #4347

NAME LEVEL III CERTIFICATION NO.

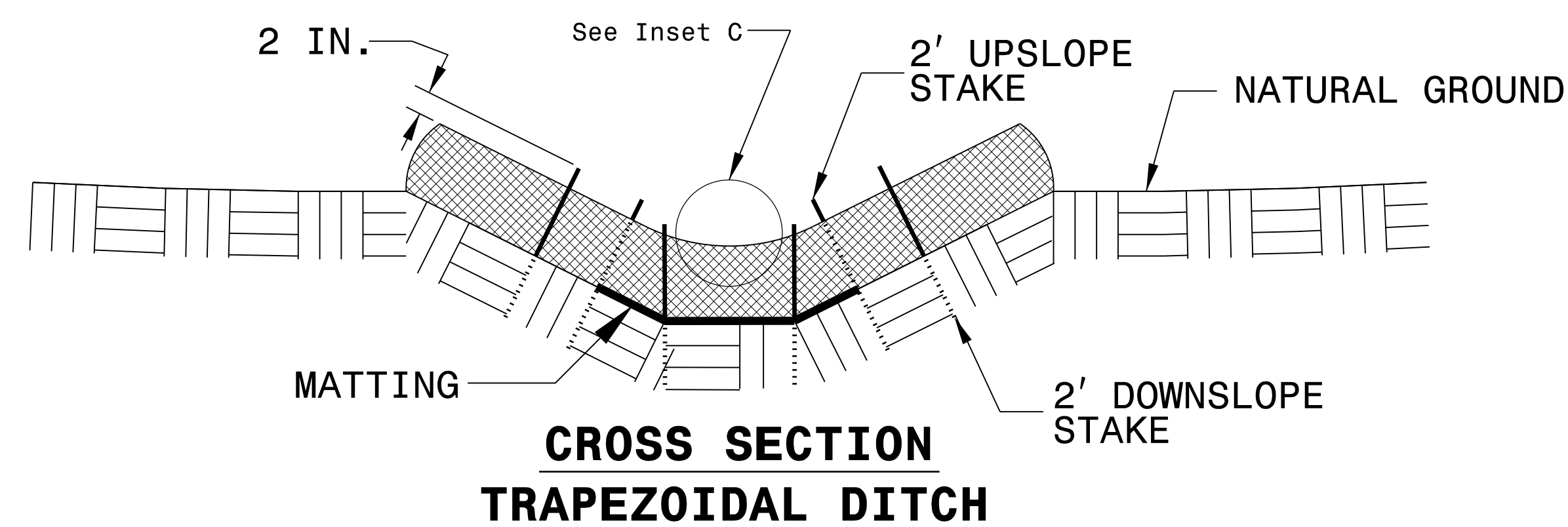
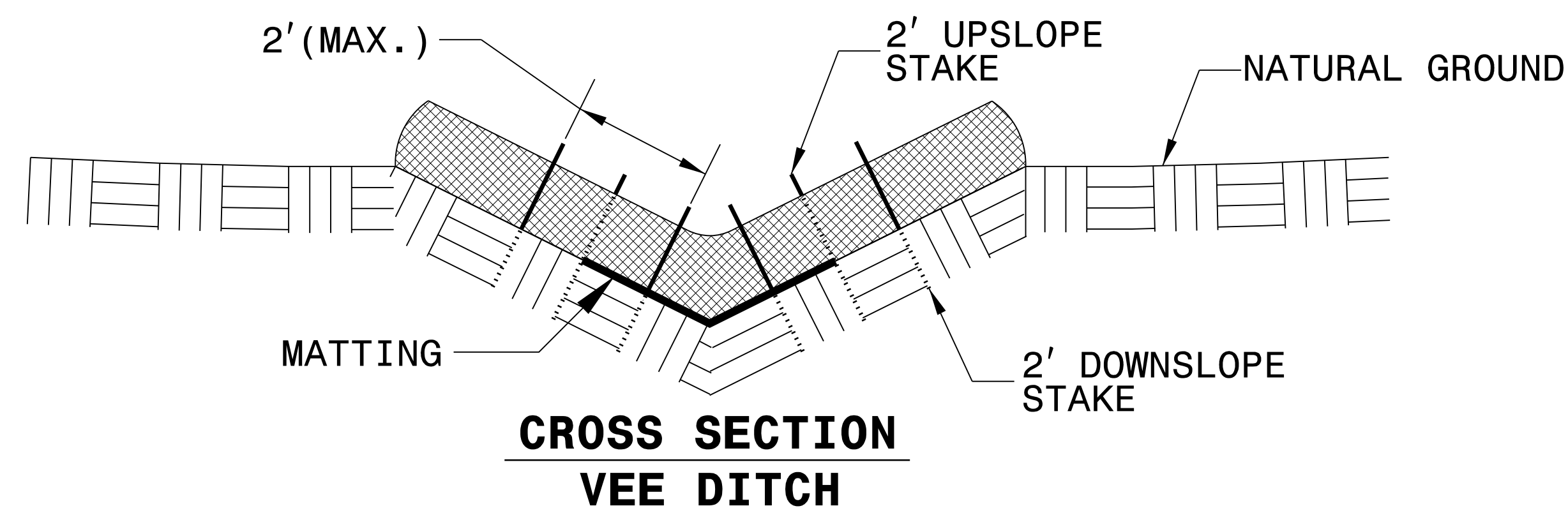
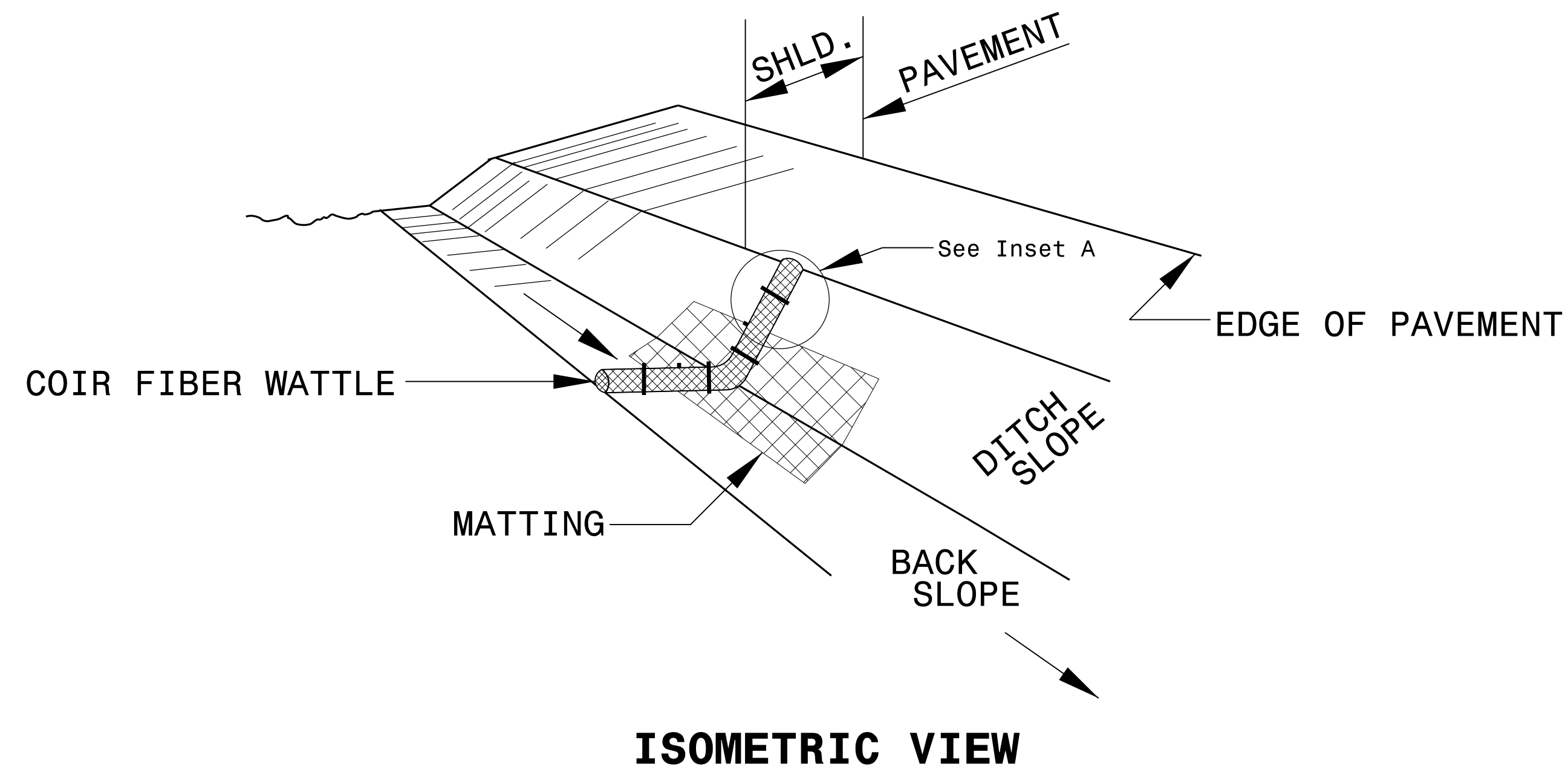
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Baffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

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COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

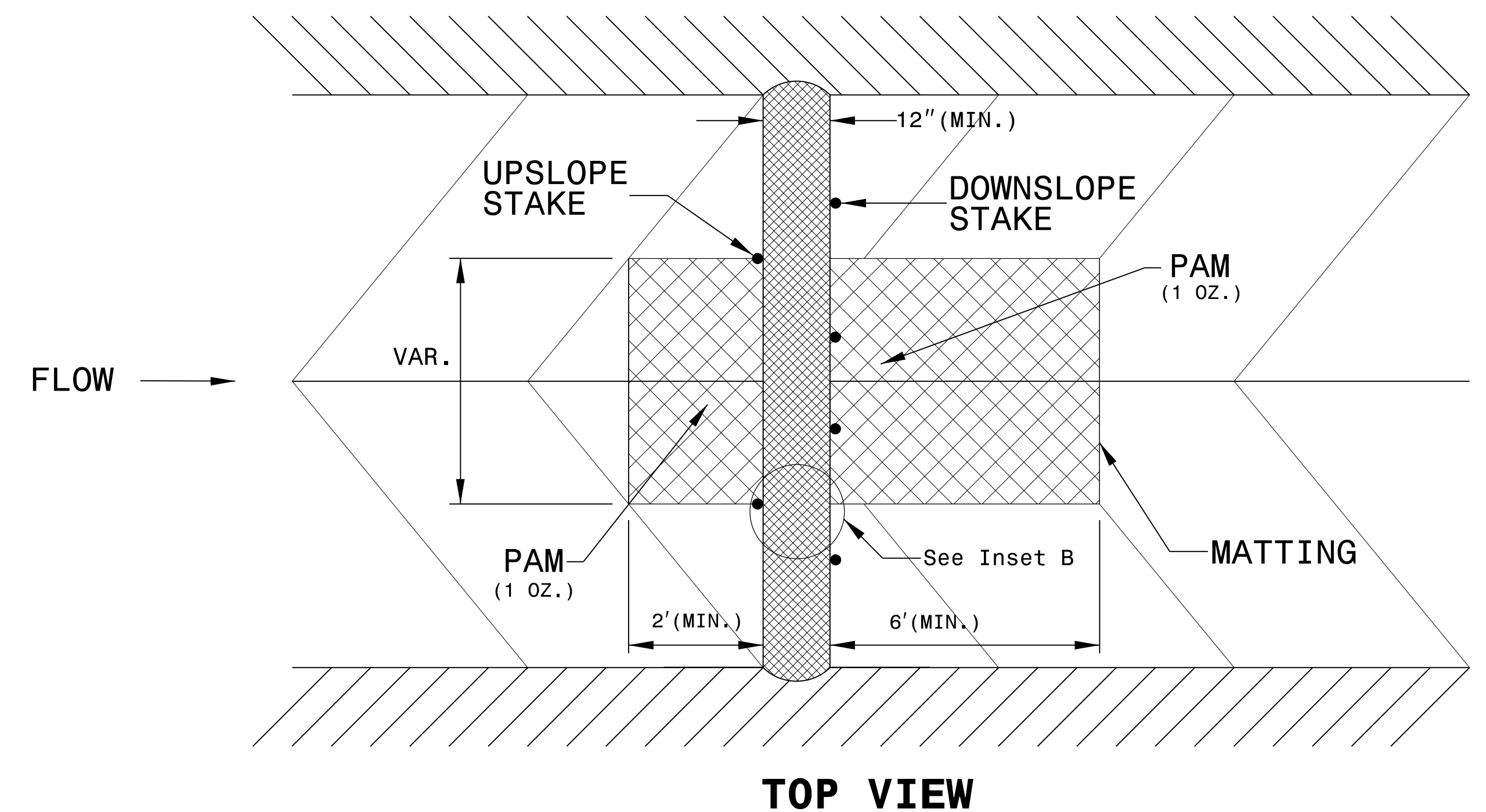
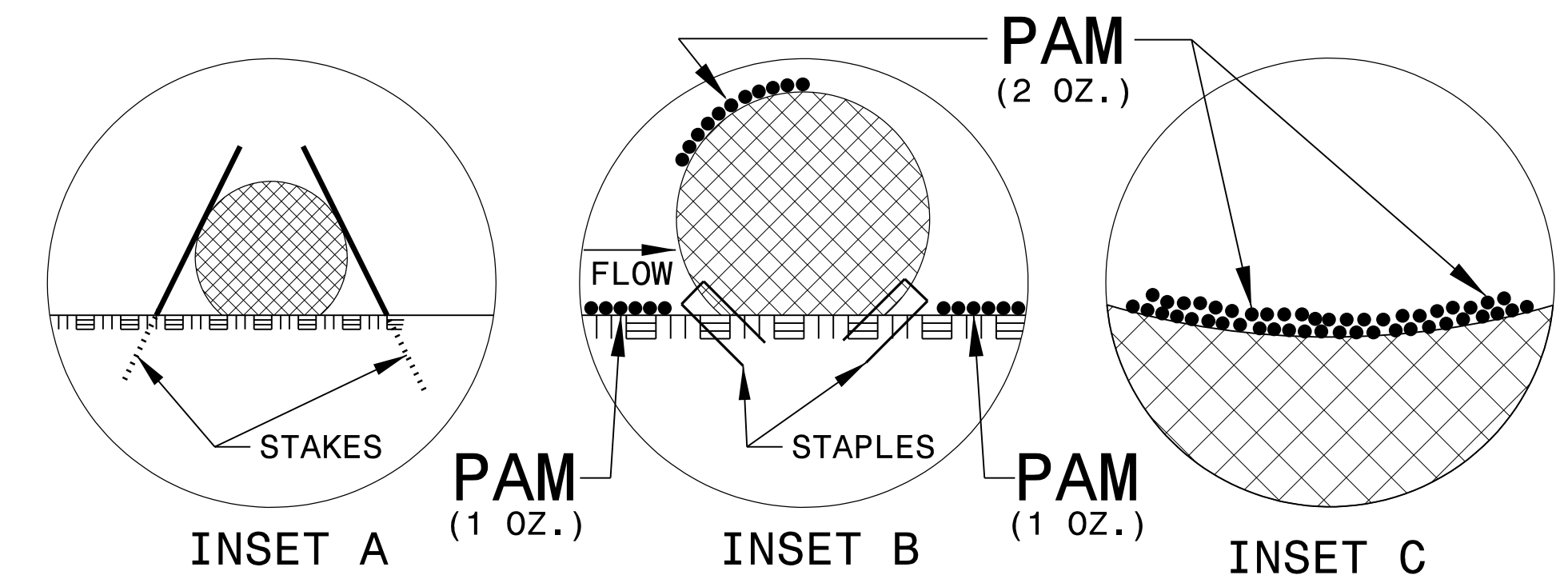
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

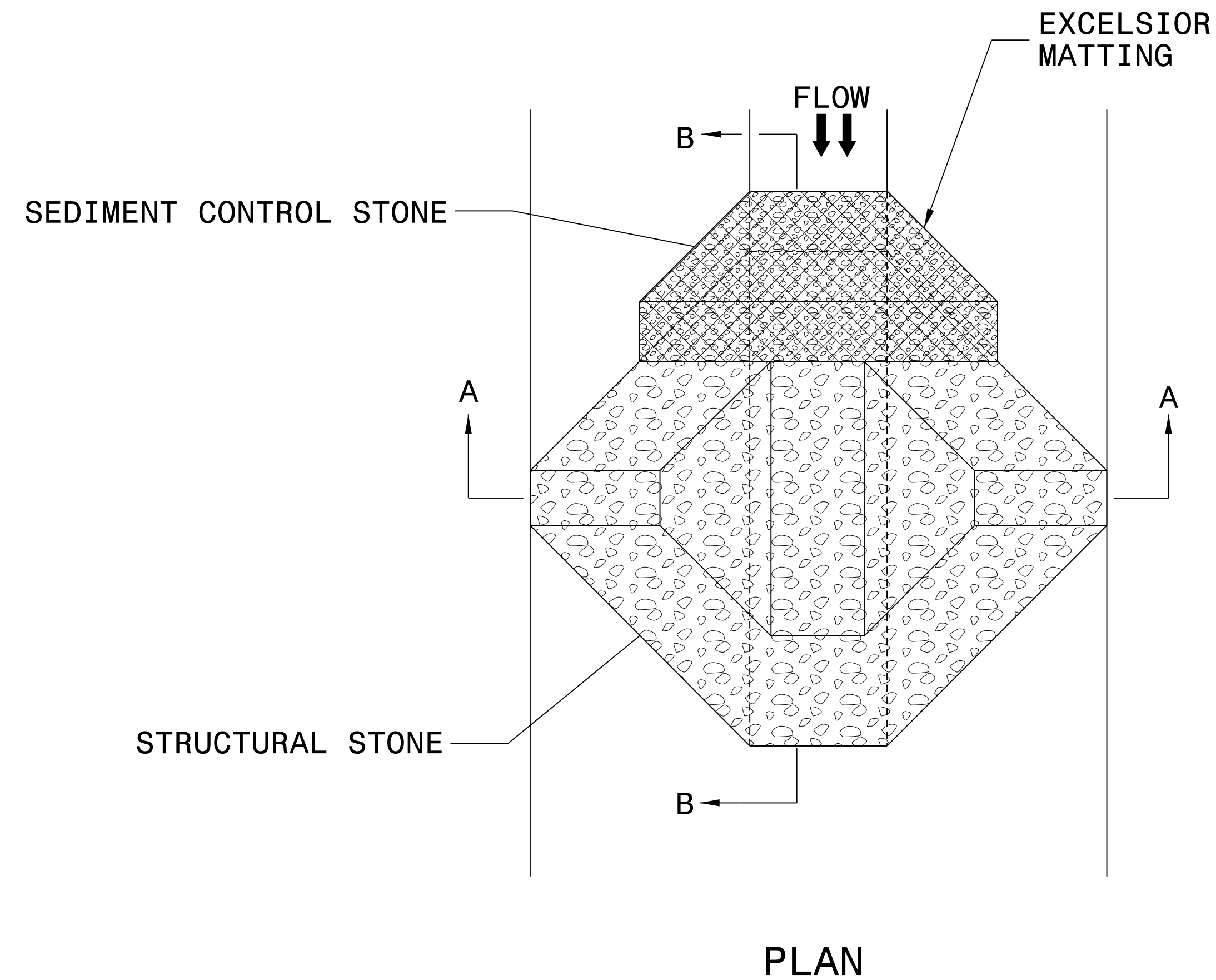
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM)



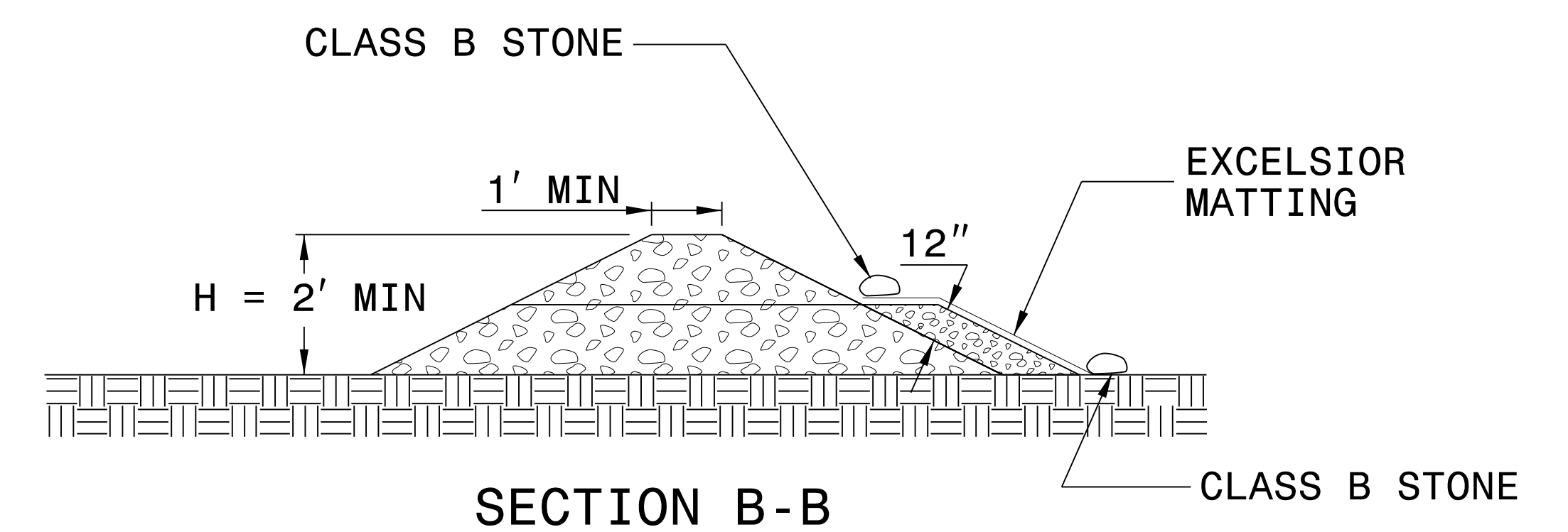
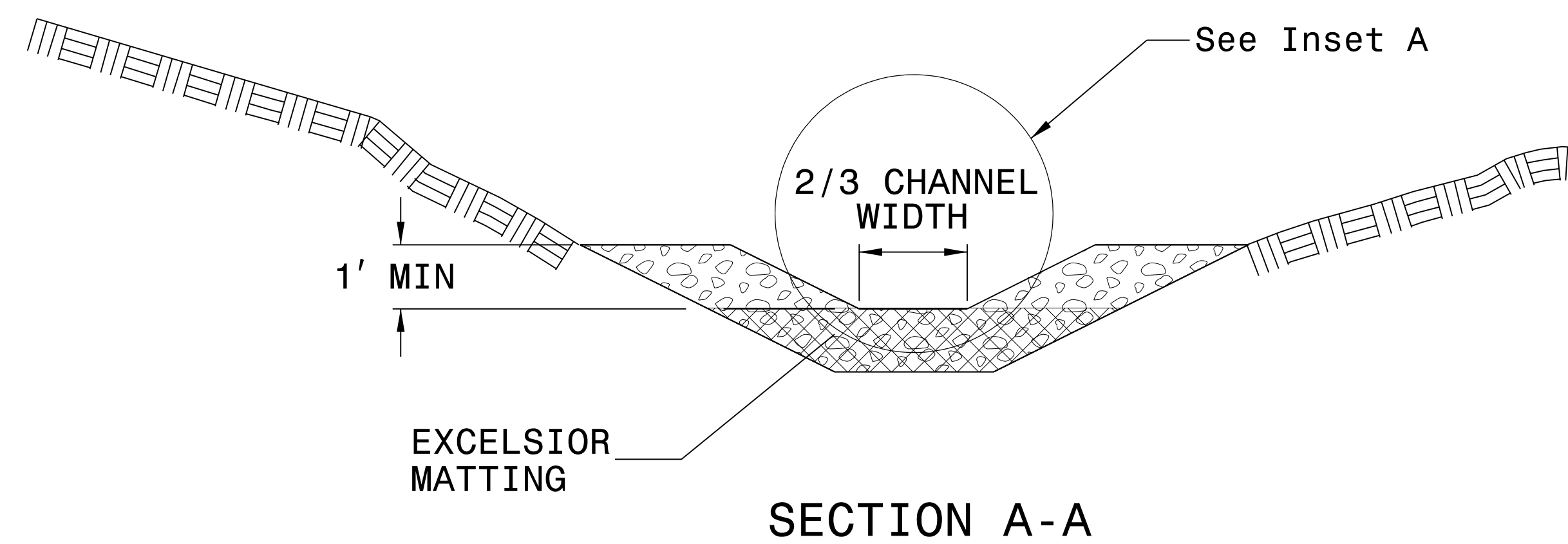
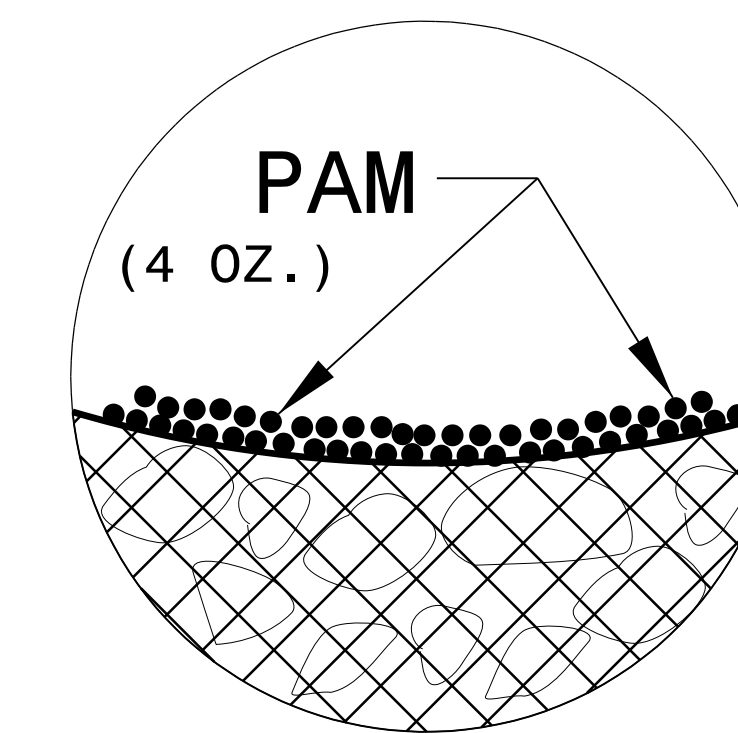
NOTES:

INSTALL TEMPORARY ROCK SILT CHECK TYPE A IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1633.01.

USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH ROCK SILT CHECK.

INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.

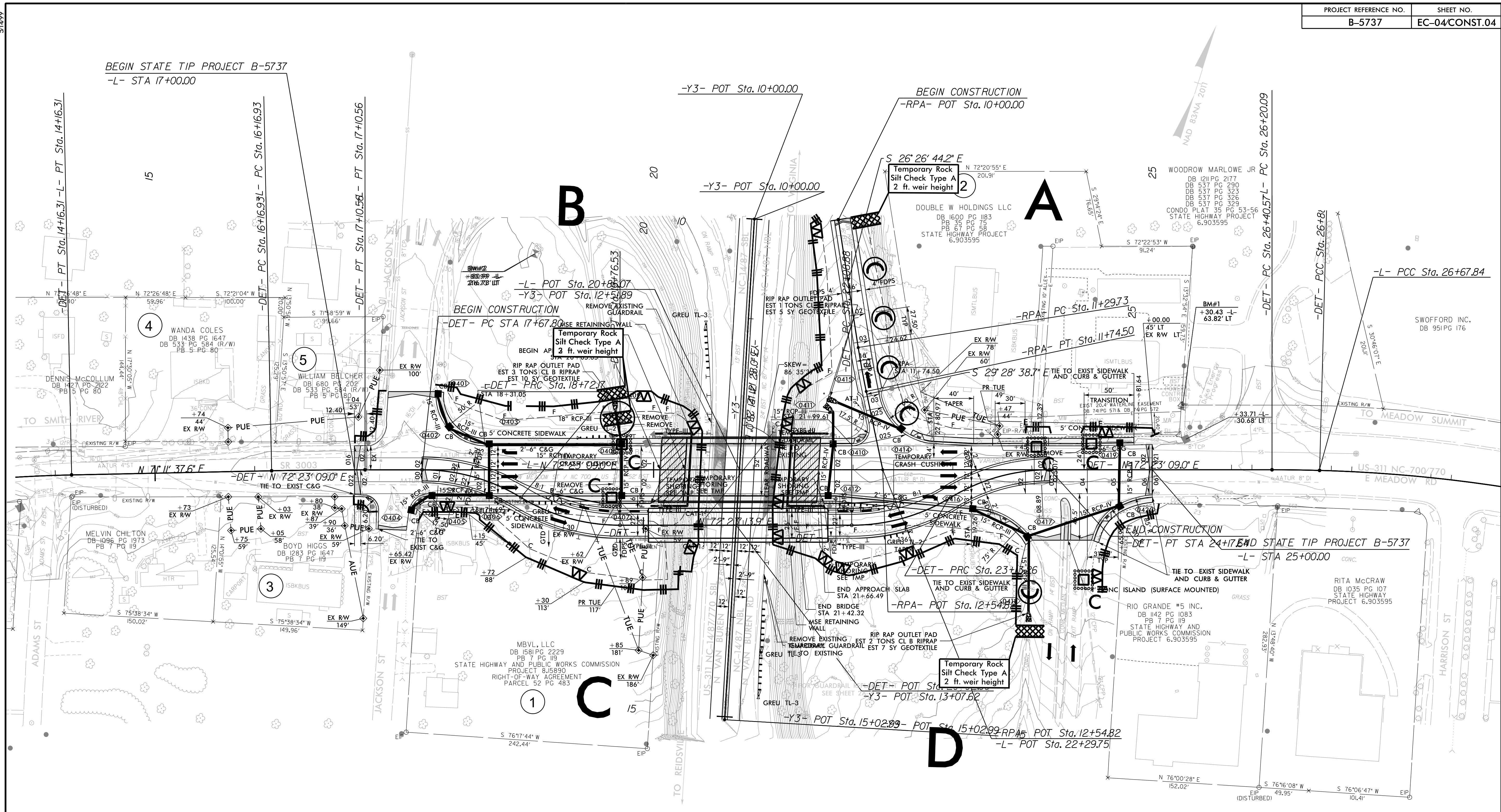


NOT TO SCALE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 04

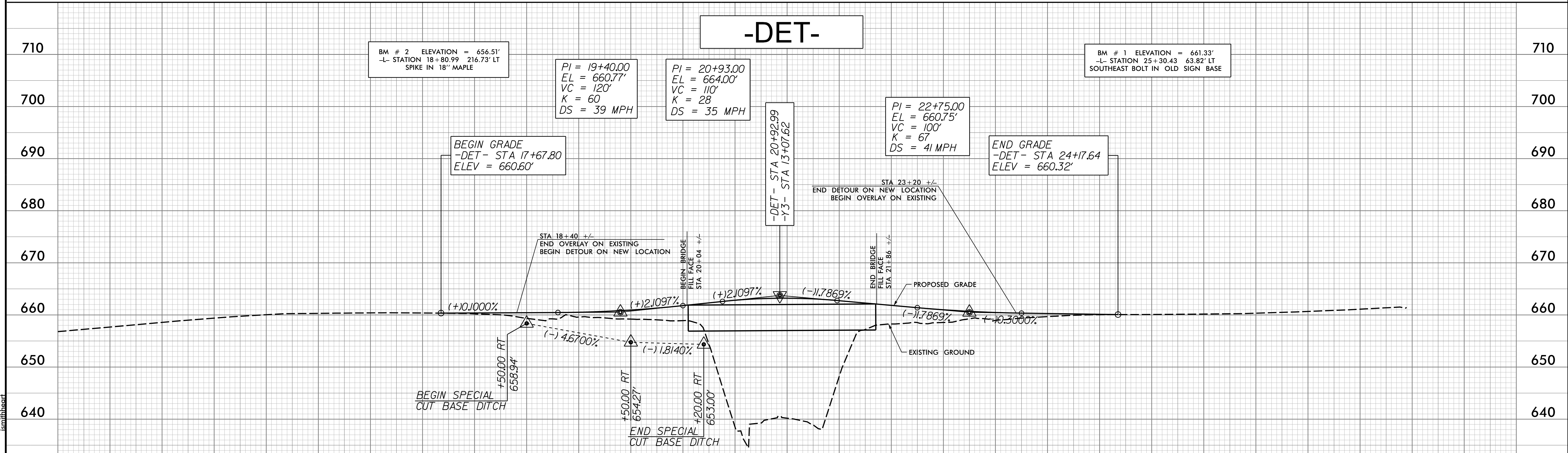
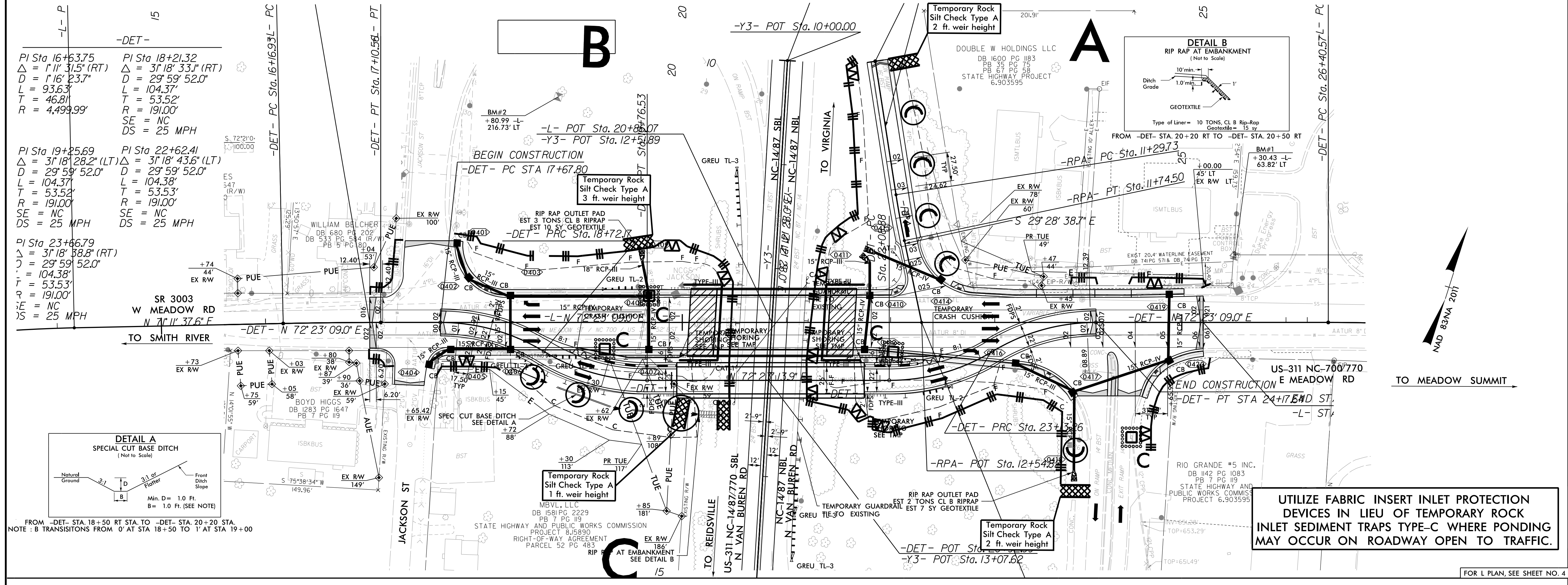
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - A
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

UTILIZE FABRIC INSERT INLET PROTECTION
DEVICES IN LIEU OF TEMPORARY ROCK
INLET SEDIMENT TRAPS TYPE-C WHERE PONDING
MAY OCCUR ON ROADWAY OPEN TO TRAFFIC.

<p>PI Sta 12+10.73 Δ = 7' 44" 58.2" (RT) D = 7' 09" 22.1" L = 108.29' T = 54.23' R = 800.65'</p>	<p>PI Sta 13+40.63 Δ = 6' 15" 49.2" (RT) D = 4' 08" 02.3" L = 151.52' T = 75.83' R = 1,385.97'</p>	<p>PI Sta 16+63.75 Δ = 1' 11" 31.5" (RT) D = 1' 16" 23.7" L = 93.63' T = 46.81' R = 4,499.99'</p>	<p>PI Sta 18+21.32 Δ = 3' 18" 33.1" (RT) D = 2' 59" 52.0" L = 104.37' T = 53.52' R = 191.00'</p>	<p>PI Sta 19+25.69 Δ = 3' 18" 28.2" (LT) D = 2' 59" 52.0" L = 104.37' T = 53.52' R = 191.00'</p>	<p>PI Sta 22+62.41 Δ = 3' 18" 43.6" (LT) D = 2' 59" 52.0" L = 104.38' T = 53.53' R = 191.00'</p>
<p>PI Sta 23+66.79 Δ = 3' 18" 38.8" (RT) D = 2' 59" 52.0" L = 104.38' T = 53.53' R = 191.00'</p>	<p>PI Sta 26+64.44 Δ = 1' 32" 28.2" (RT) D = 3' 13" 40.5" L = 47.74' T = 23.87' R = 1,775.01'</p>	<p>PI Sta 15+02.89 Δ = 6' 75" 46.2" (RT) D = 0' 08" 07.3" (RT) L = 457.52' T = 175.83' R = 1,385.99'</p>	<p>PI Sta 16+63.75 Δ = 1' 11" 31.5" (RT) D = 1' 16" 23.7" L = 93.63' T = 46.81' R = 4,499.99'</p>	<p>PI Sta 28+53.50 Δ = 14' 26" 10.3" (RT) D = 3' 54" 30.9" L = 369.35' T = 185.66' R = 1,465.90'</p>	<p>PI Sta 11+52.12 Δ = 3' 01" 54.5" (LT) D = 6' 46" 21.2" L = 447.7' T = 22.39' R = 846.00' SE = 04 Runoff = 110' DS = 40MPH</p>

ALL DRIVE RADII 10' UNLESS OTHERWISE NOTED
FOR DETOUR, SEE SHEET NO. 2B-1
FOR STRUCTURE PLANS SEE S-1 THRU S-28
FOR PROFILE, SEE SHEET NO. 5

51499
17/2/2021
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Ramboll



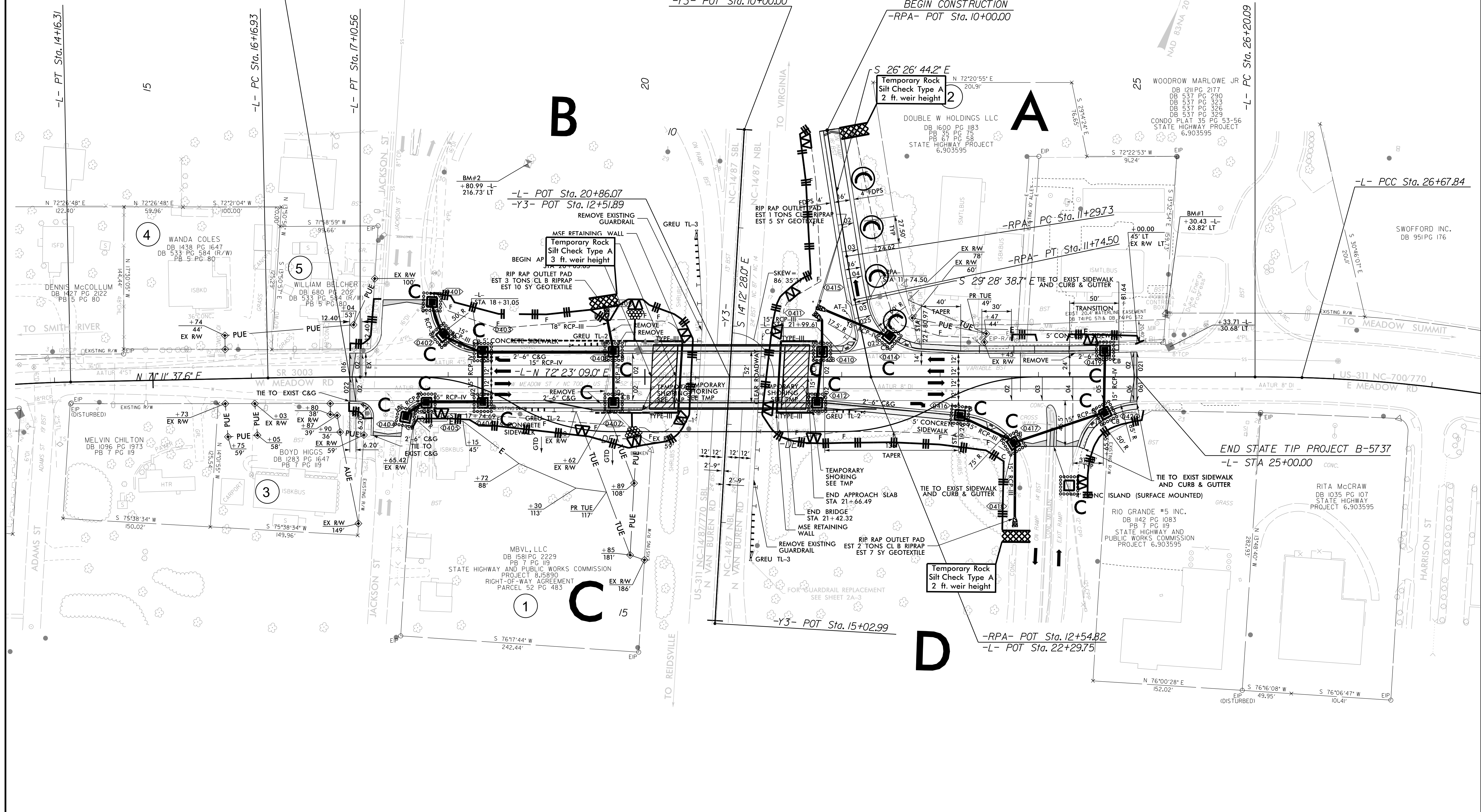
5/14/09
 12/20/2021
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BEGIN STATE TIP PROJECT B-5737
-L- STA 17+00.00

-Y3- POT Sta. 10+00.00

BEGIN CONSTRUCTION
-RPA- POT Sta. 10+00.00

-L- PC Sta. 26+20.09



UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF TEMPORARY ROCK INLET SEDIMENT TRAPS TYPE-C WHERE PONDING MAY OCCUR ON ROADWAY OPEN TO TRAFFIC.

-L-		-RPA-	
PI Sta 13+40.63	PI Sta 16+63.75	PI Sta 28+53.50	PI Sta 11+52.12
Δ = 6' 15" 49.2" (RT)	Δ = 1' 11" 31.5" (RT)	Δ = 14' 26" 10.3" (RT)	Δ = 3' 01" 54.5" (LT)
D = 4' 08" 02.3"	D = 1' 16" 23.7"	D = 3' 54" 30.9"	D = 6' 46" 21.2"
L = 151.52'	L = 93.63'	L = 369.35'	L = 44.77'
T = 75.83'	T = 46.81'	T = 185.66'	T = 22.39'
R = 1,385.97'	R = 4,499.99'	R = 1,465.90'	R = 846.00'
			SE = 04
			Runoff = 110'
			DS = 40MPH

ALL DRIVE RADII 10' UNLESS OTHERWISE NOTED
FOR DETOUR, SEE SHEET NO. 2B-1
FOR STRUCTURE PLANS SEE S-1 THRU S-28
FOR PROFILE, SEE SHEET NO. 5

51469 15/2/2021 10:01-10:03 B5737.dwg Sheets B5737_REU_ECO6_PSH04_2_FINAL.dgn