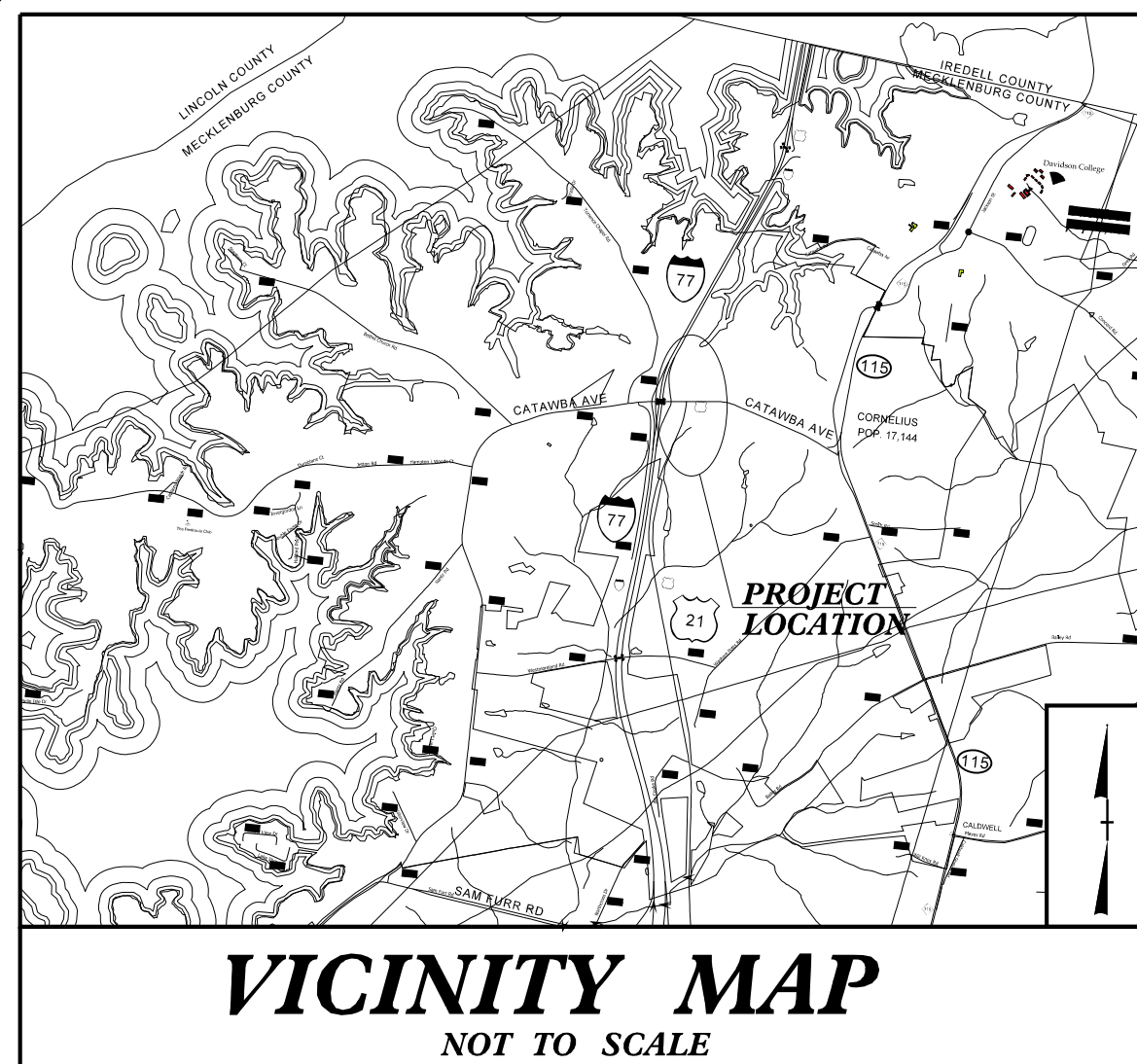


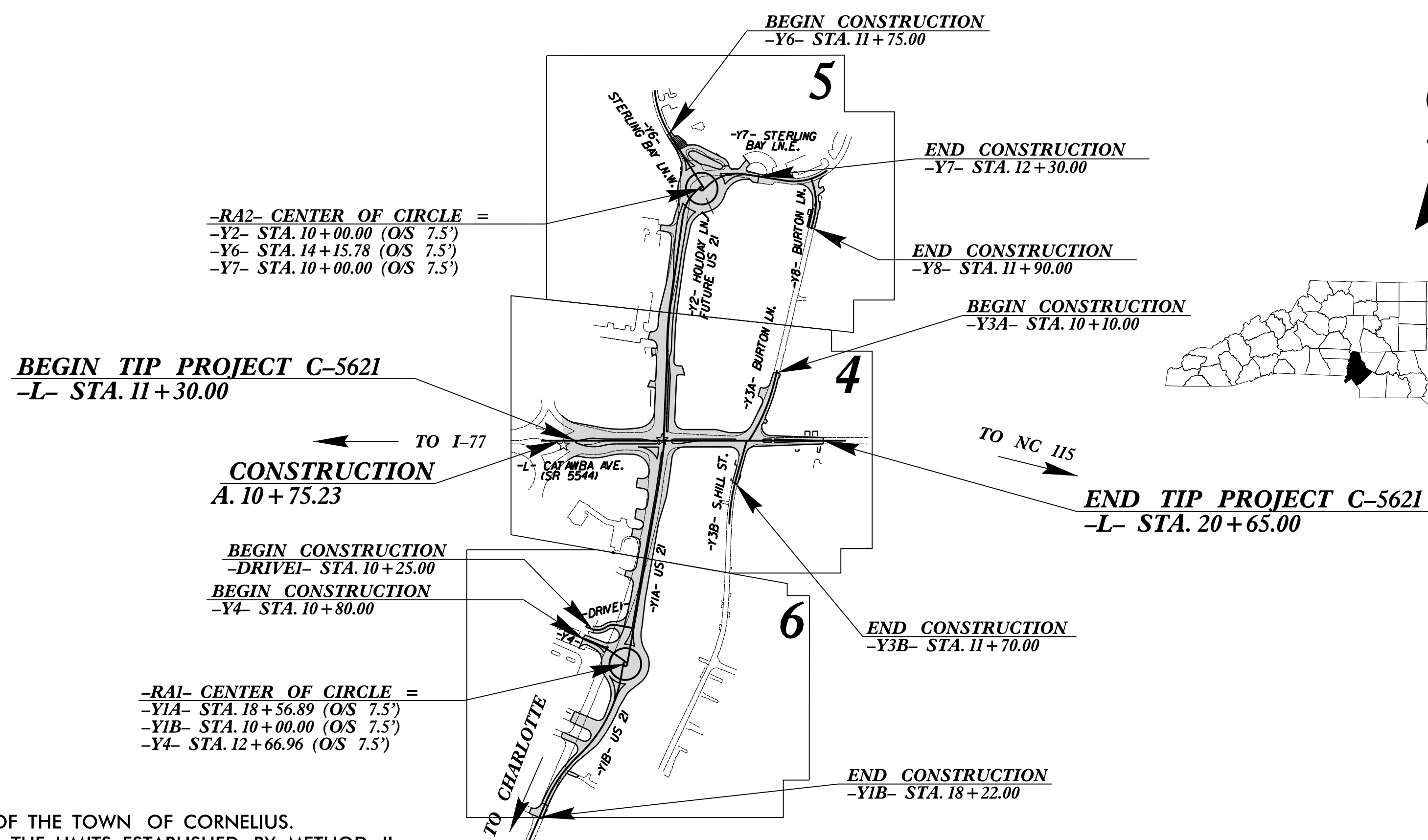
TIP PROJECT: C-5621



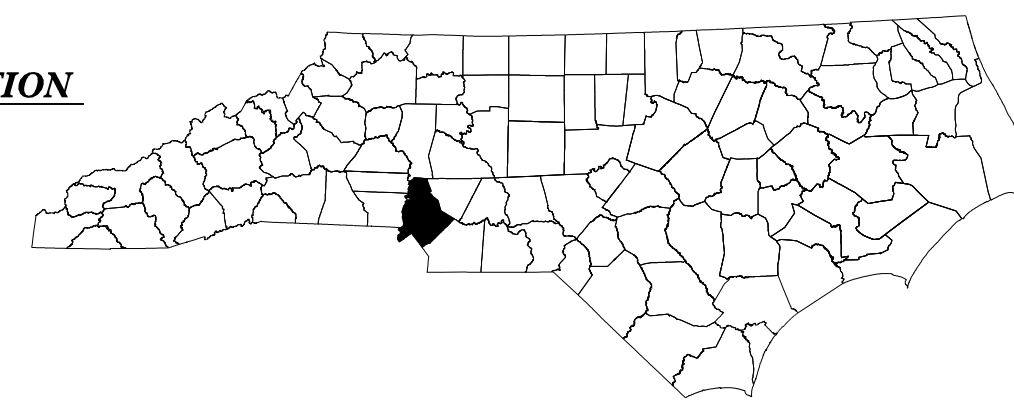
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL
MECKLENBURG COUNTY

**LOCATION: DUAL ROUNDABOUTS NORTH AND SOUTH OF
SR 5544 (CATAWBA AVE.) AND
US 21 INTERSECTION IN CORNELIUS**

TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND SIGNALS



NAD 83 / NSRS 2007



THERE IS CONTROL OF ACCESS ON THIS PROJECT.
THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE TOWN OF CORNELIUS.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	C-5621	EC-1	11
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
50146.1.FI	N/A	PE	
50146.2.J	N/A	R/W, UTILITY	
50146.3.J	CMS-0021(020)	CONST.	

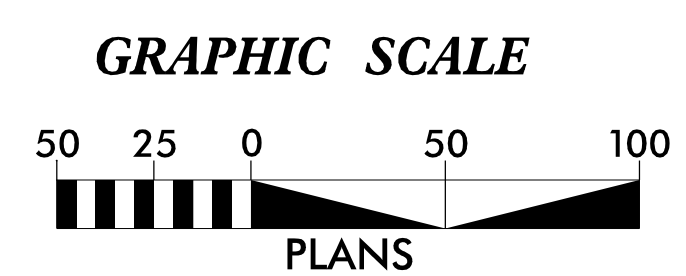
EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1650.05	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	III III III
1650.02	Silt Basin Type B	III III III
1633.01	Temporary Rock Silt Check Type-A	III III III
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	III III III
1633.02	Temporary Rock Silt Check Type-B	III III III
	Wattle / Coir Fiber Wattle	III III III
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	III III III
1634.01	Temporary Rock Sediment Dam Type-A	III III III
1634.02	Temporary Rock Sediment Dam Type-B	III III III
1635.01	Rock Pipe Inlet Sediment Trap Type-A	III III III
1635.02	Rock Pipe Inlet Sediment Trap Type-B	III III III
1630.04	Stilling Basin	III III III
1630.06	Special Stilling Basin	III III III
	Rock Inlet Sediment Trap:	III III III
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	III III III
	Tiered Skimmer Basin	III III III
	Infiltration Basin	III III III

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

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

HIGH QUALITY WATERS(S) EXIST ON THIS PROJECT
High Quality Water Zone(s) Exist
From Sta. -L- 11 + 30.00
to Sta. -L- 20 + 65.00
Refer To E. C. Special Provisions for Special Considerations.



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE APPLICABLE REGULATIONS SET FORTH BY THE NCG-01000 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:
RS&H
8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615
NC FIRM LICENSE No: F-0493

Designed by:
ALEXANDER VINSON, P.E. 3909
NAME LEVEL III CERTIFICATION NO.

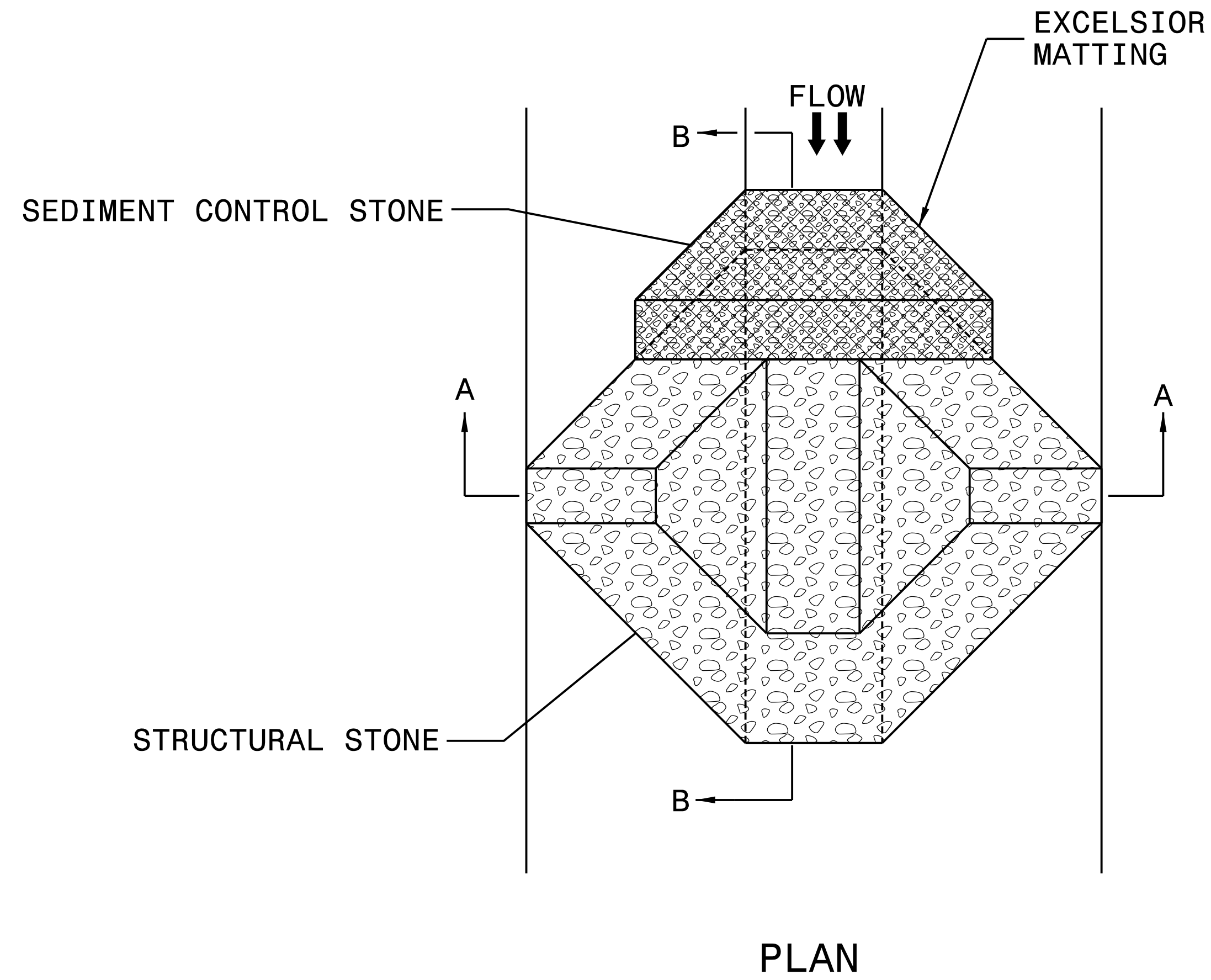
Roadway Standard Drawings

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



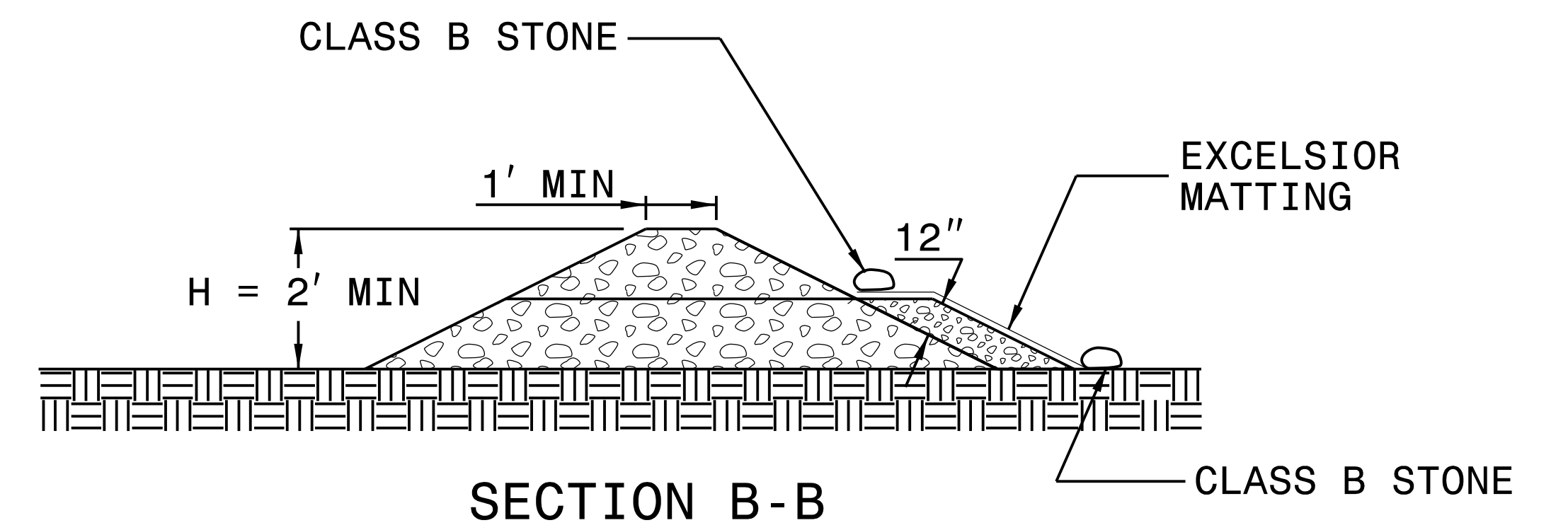
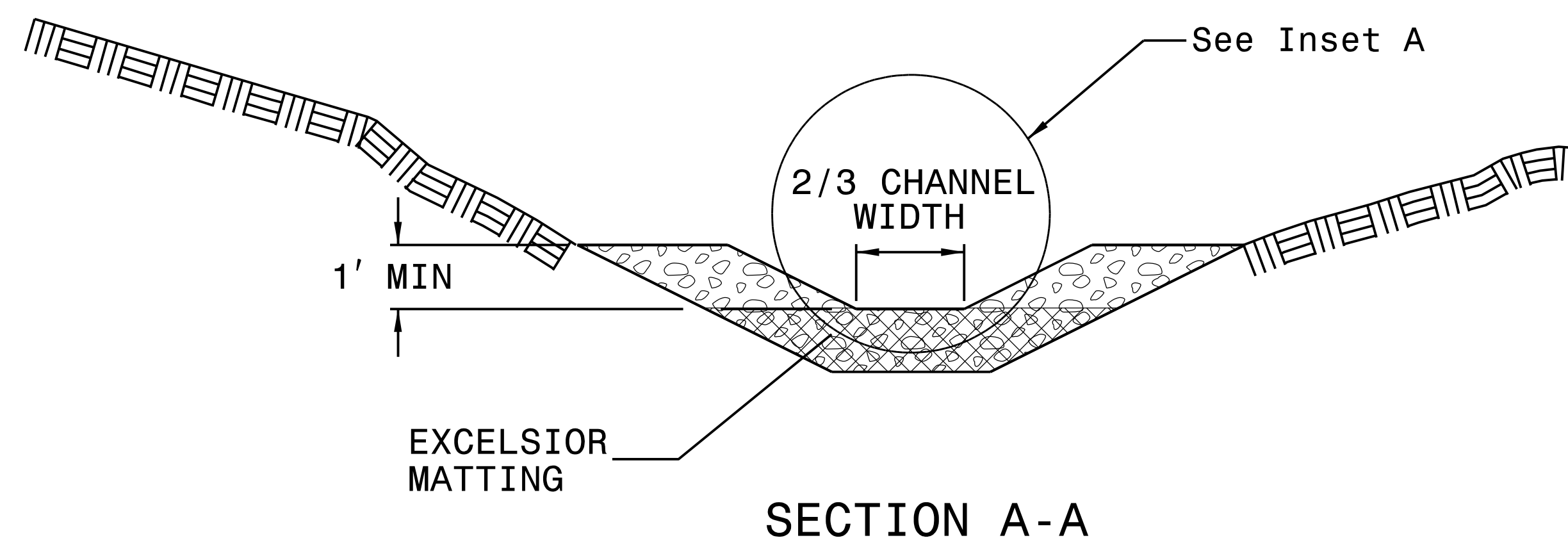
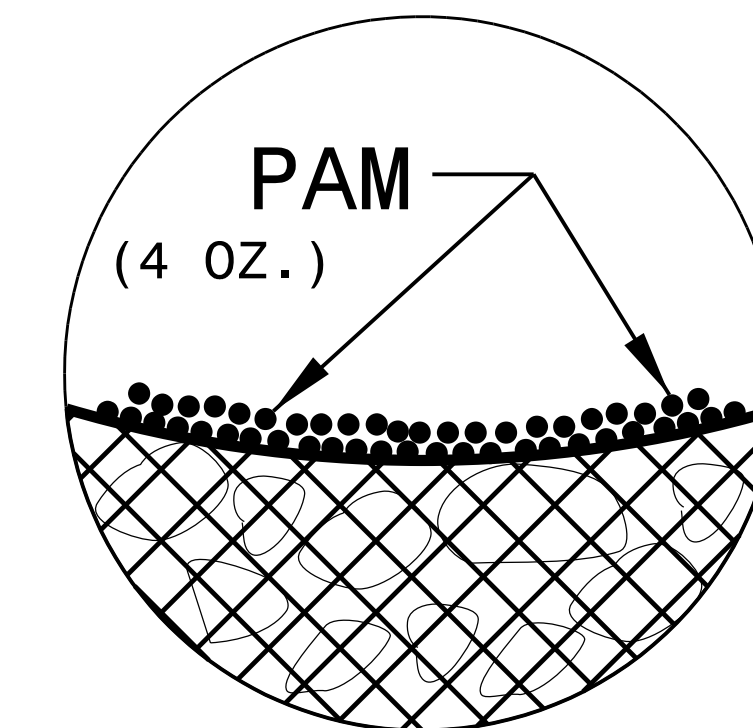
NOTES:

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.

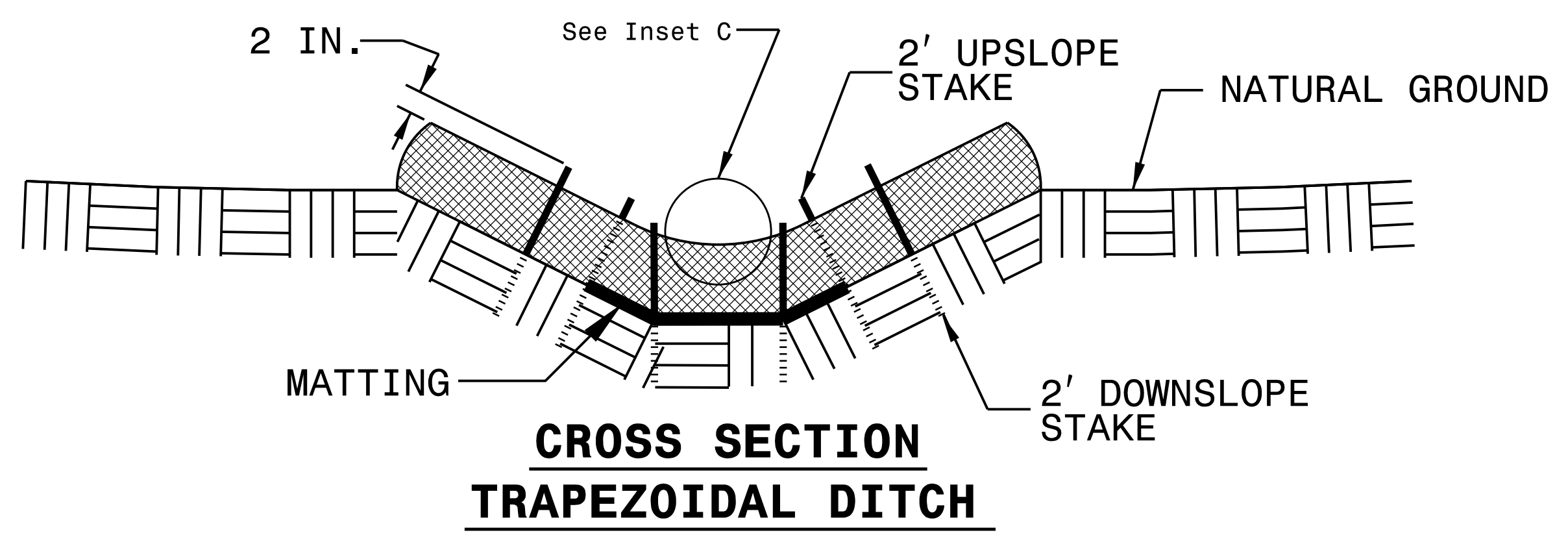
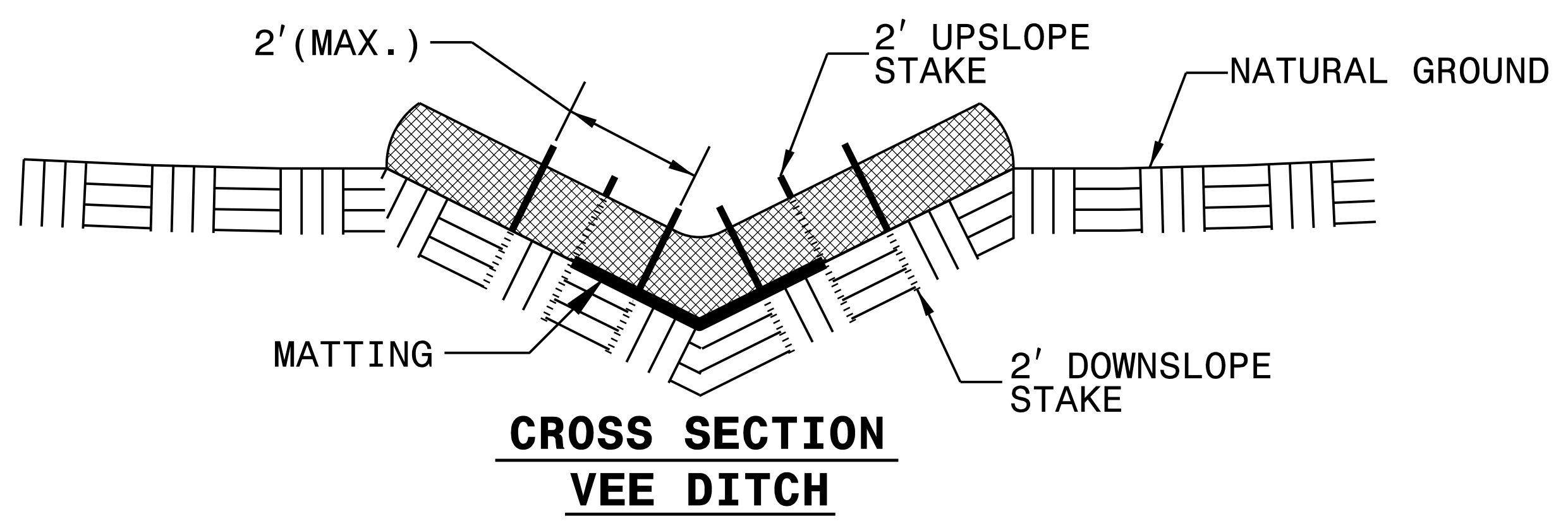
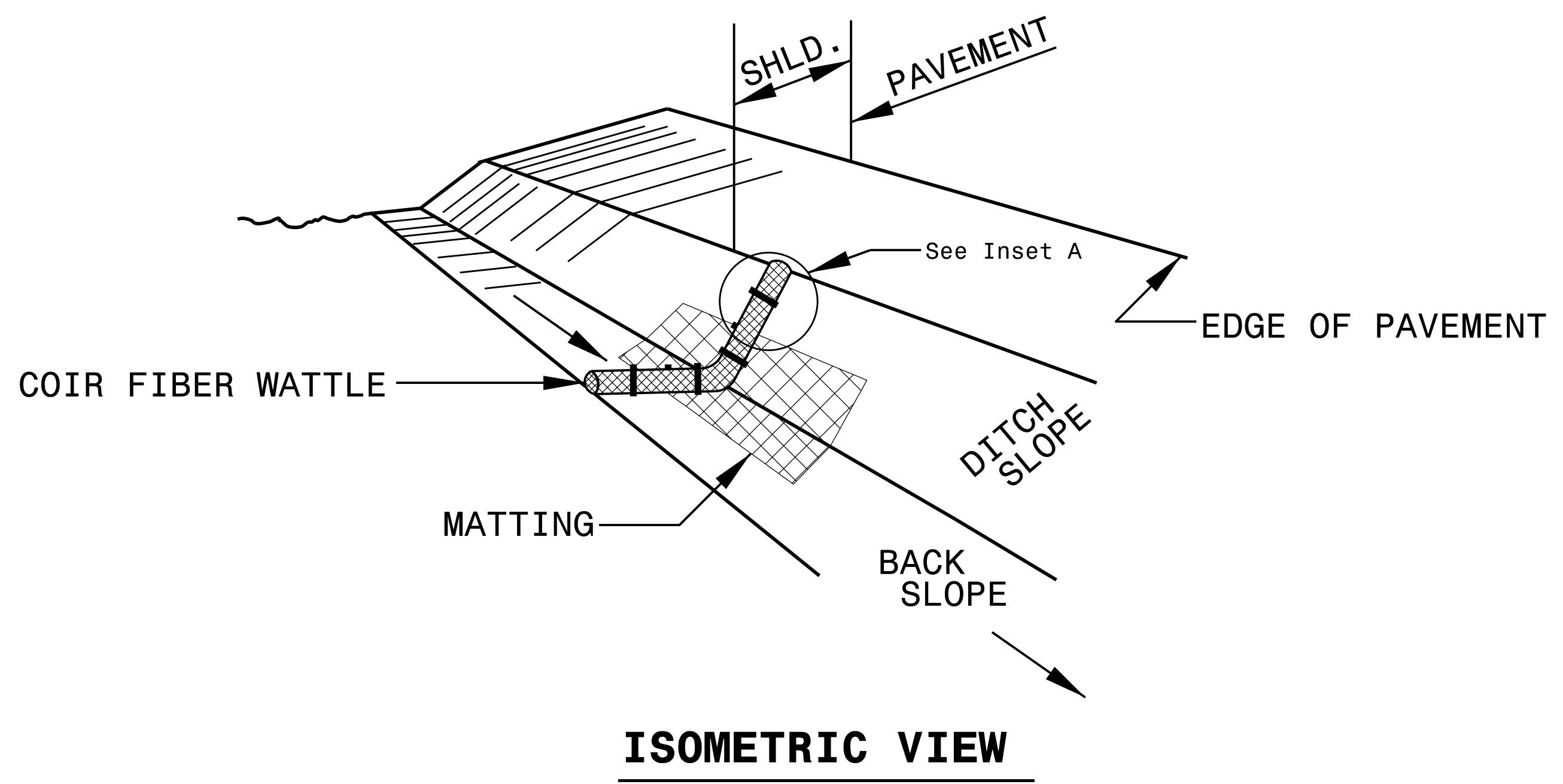
PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH ROCK SILT CHECK.

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

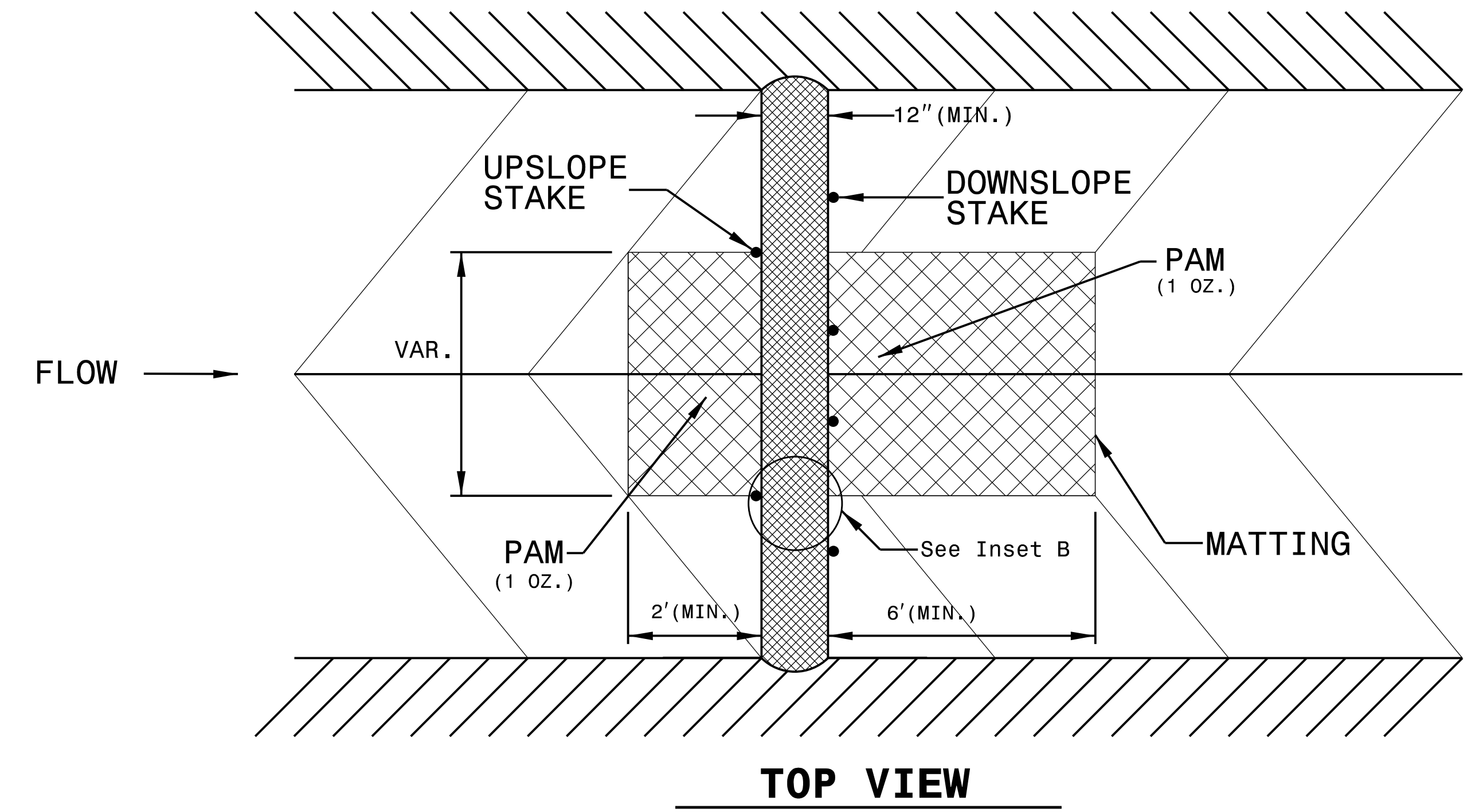
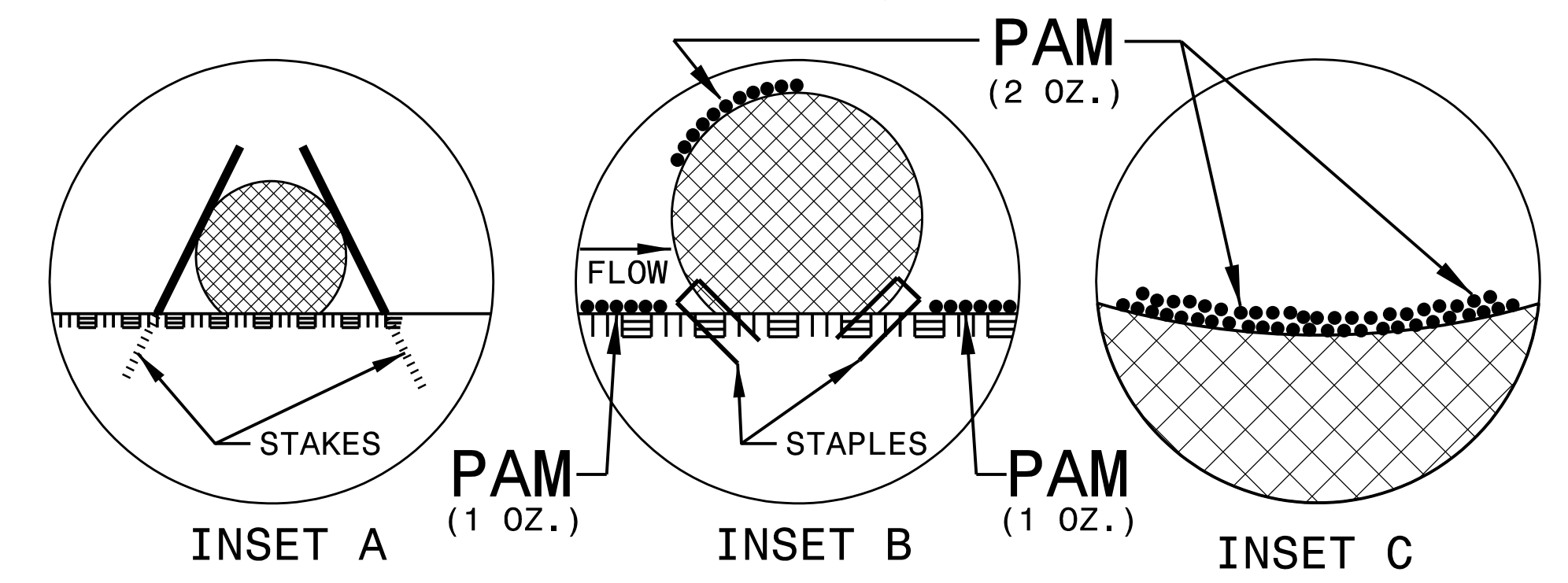


NOT TO SCALE

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 EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.

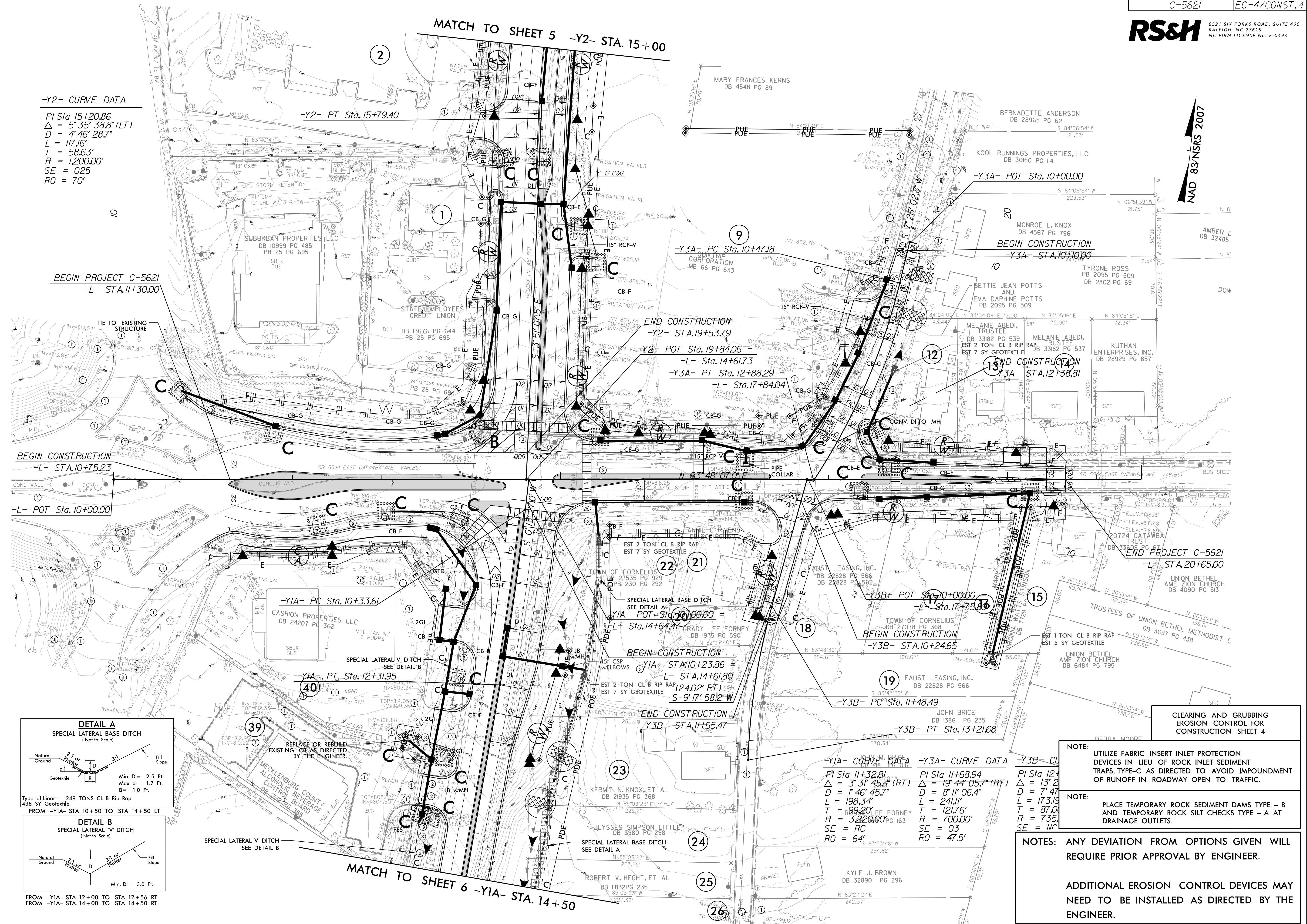
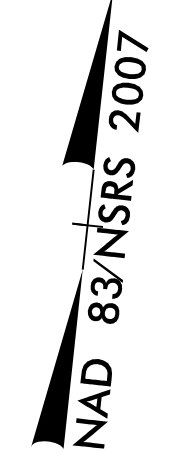


DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

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.

-Y2- CURVE DATA
 PI Sta 15+20.86
 $\Delta = 5^{\circ} 35' 38.8" (LT)$
 $D = 4^{\circ} 46' 28.7"$
 $L = 117.16'$
 $T = 58.63'$
 $R = 1,200.00'$
 $SE = 0.25$
 $RO = 70'$



BEGIN CONSTRUCTION
 -L- STA.10+75.23

-L- POT Sta.10+00.00

-Y1A- PC Sta.10+33.61

-Y1A- PT Sta.12+31.95

DETAIL A
 SPECIAL LATERAL BASE DITCH
 (Not to Scale)

Min. D = 2.5 Ft.
 Max. d = 1.7 Ft.
 B = 1.0 Ft.

Type of Liner = 249 TONS CL B Rip-Rap
 438 SY Geotextile

FROM -Y1A- STA. 10+50 TO STA. 14+50 LT

DETAIL B
 SPECIAL LATERAL 'V' DITCH
 (Not to Scale)

Min. D = 3.0 Ft.

FROM -Y1A- STA. 12+00 TO STA. 12+56 RT
 FROM -Y1A- STA. 14+00 TO STA. 14+50 RT

-Y1A- CURVE DATA
 PI Sta 11+32.81
 $\Delta = 3^{\circ} 31' 45.4" (RT)$
 $D = 1^{\circ} 46' 45.7"$
 $L = 198.34'$
 $T = 99.20'$
 $R = 700.00'$
 $SE = RC$
 $RO = 64'$

-Y3A- CURVE DATA
 PI Sta 11+68.94
 $\Delta = 19^{\circ} 44' 05.7" (RT)$
 $D = 8^{\circ} 11' 06.4"$
 $L = 241.11'$
 $T = 121.76'$
 $R = 700.00'$
 $SE = 03$
 $RO = 47.5'$

-Y3B- CURVE DATA
 PI Sta 12+...
 $\Delta = 13^{\circ} 2'$
 $D = 7^{\circ} 47'$
 $L = 173.19'$
 $T = 87.01'$
 $R = 735.00'$
 $SE = NC$

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAPS, TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

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

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

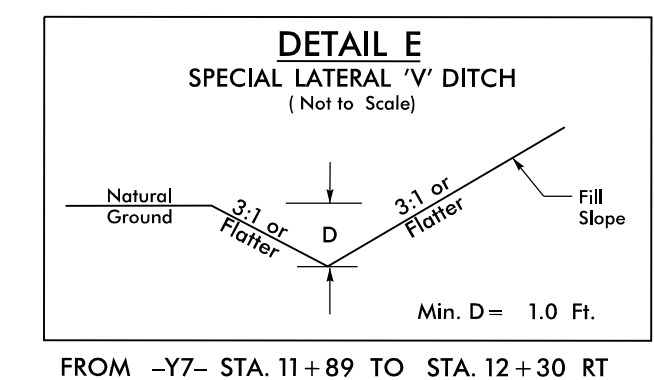
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

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- LEGEND**
- ① RETAIN
 - ② PLUG & FILL
 - ③ REMOVE



-Y6- CURVE DATA
 PI Sta 10+90.94
 $\Delta = 27^{\circ} 37' 05.5''$ (LT)
 D = 15' 29' 07.2"
 L = 178.35'
 T = 90.94'
 R = 370.00'
 SE = NC**

-Y7- CURVE DATA
 PI Sta 11+07.12
 $\Delta = 52^{\circ} 01' 23.6''$ (RT)
 D = 35' 48' 35.5"
 L = 145.28'
 T = 78.08'
 R = 160.00'

-Y6- CURVE DATA
 PI Sta 14+19.58
 $\Delta = 46^{\circ} 05' 46.1''$ (LT)
 D = 27' 17' 01.3"
 L = 168.95'
 T = 89.35'
 R = 210.00'
 SE = 02**
 RO = 38'

-Y2- CURVE DATA
 PI Sta 10+79.68
 $\Delta = 39^{\circ} 15' 6.2''$ (RT)
 D = 35' 48' 35.5"
 L = 109.61'
 T = 57.05'
 R = 160.00'

-Y2- CURVE DATA
 PI Sta 15+20.86
 $\Delta = 5^{\circ} 35' 38.8''$ (LT)
 D = 4' 46' 28.7"
 L = 117.16'
 T = 58.63'
 R = 1,200.00'

-RA2- CURVE DATA
 PI Sta 10+00.15
 $\Delta = 359^{\circ} 43' 22.9''$ (LT)
 D = 95' 29' 34.7"
 L = 376.70'
 T = 0.15'
 R = 60.00'

-Y8- CURVE DATA
 PI Sta 10+88.80
 $\Delta = 30^{\circ} 33' 51.0''$ (RT)
 D = 22' 55' 05.9"
 L = 133.36'
 T = 68.31'
 R = 250.00'
 SE = 04
 RO = 76'

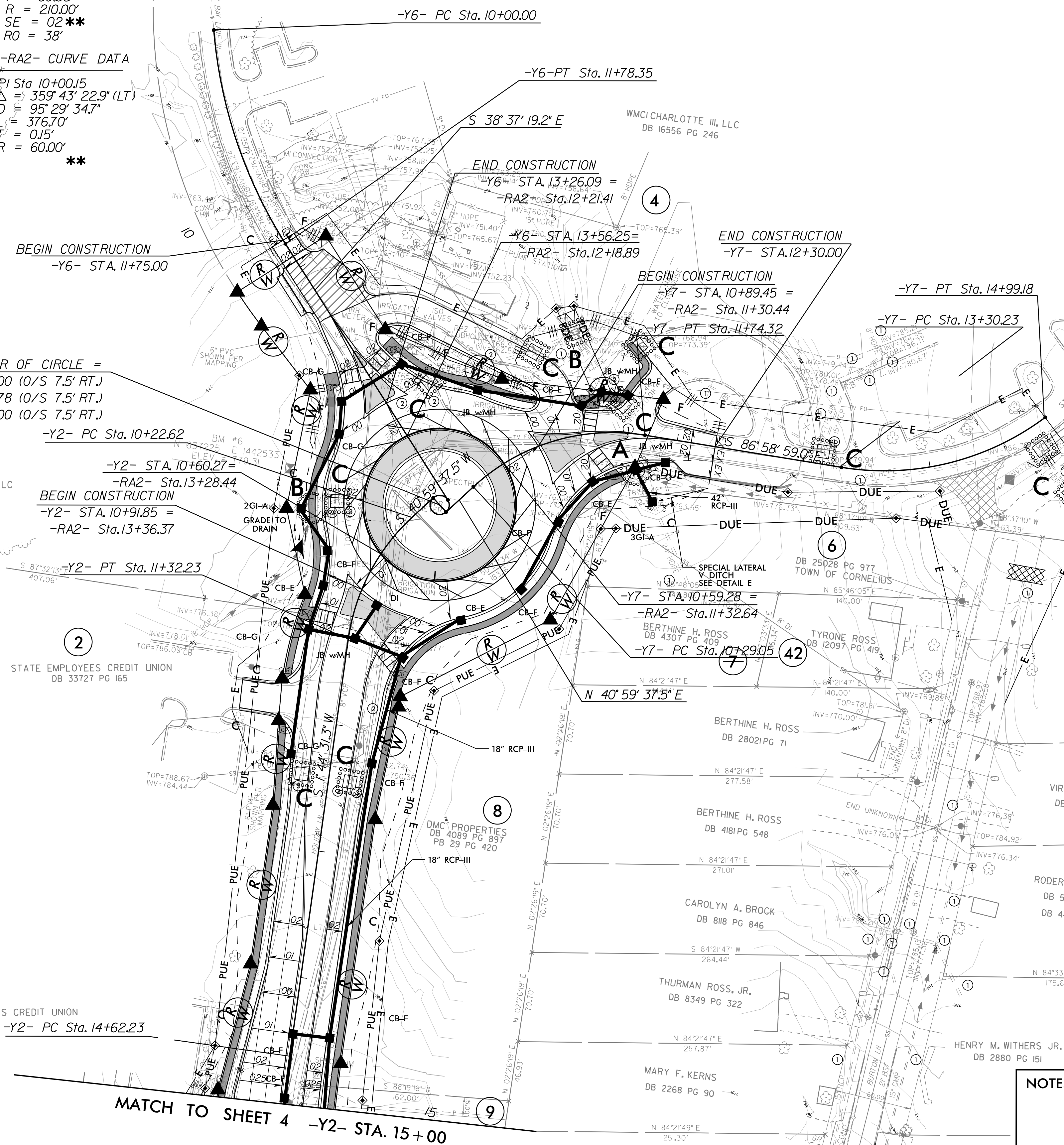
-RA2- CENTER OF CIRCLE =
 -Y2- STA.10+00.00 (O/S 7.5' RT.)
 -Y6- STA.14+15.78 (O/S 7.5' RT.)
 -Y7- STA.10+00.00 (O/S 7.5' RT.)

BEGIN CONSTRUCTION
 -Y6- STA.11+75.00
 -Y2- PC Sta.10+22.62
 -Y2- STA.10+60.27=
 -RA2- Sta.13+28.44
BEGIN CONSTRUCTION
 -Y2- STA.10+91.85 =
 -RA2- Sta.13+36.37

-Y2- PT Sta.11+32.23

-Y2- PC Sta.14+62.23

MATCH TO SHEET 4 -Y2- STA. 15+00



NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAPS, TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

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

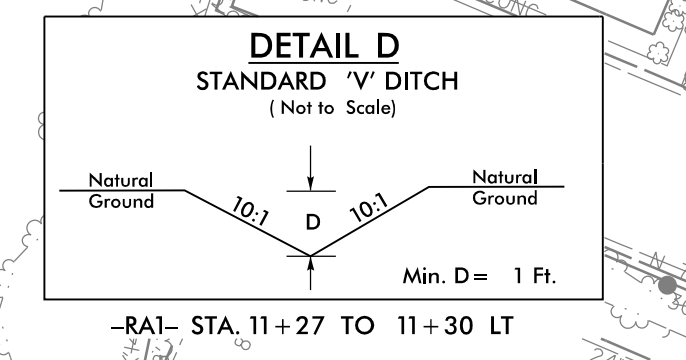
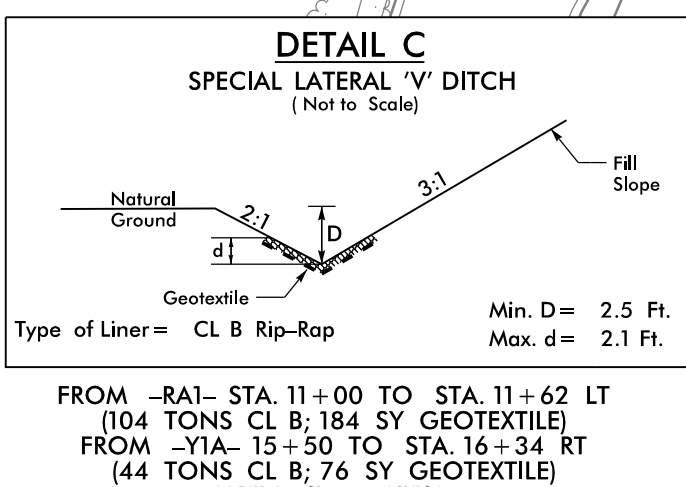
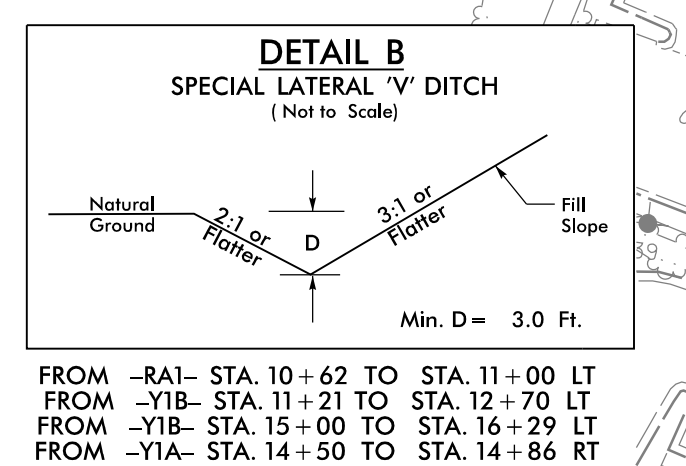
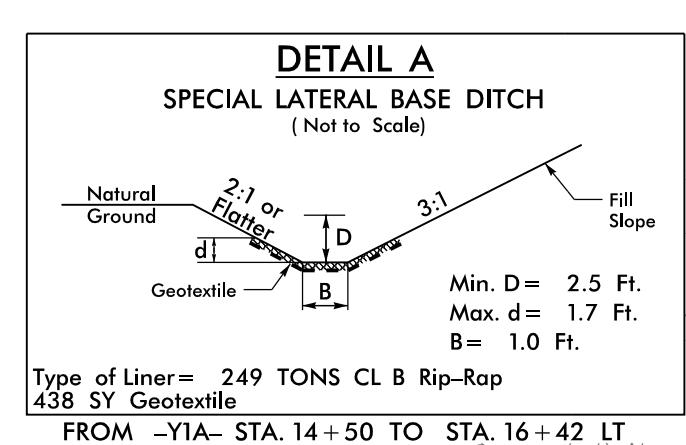
NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

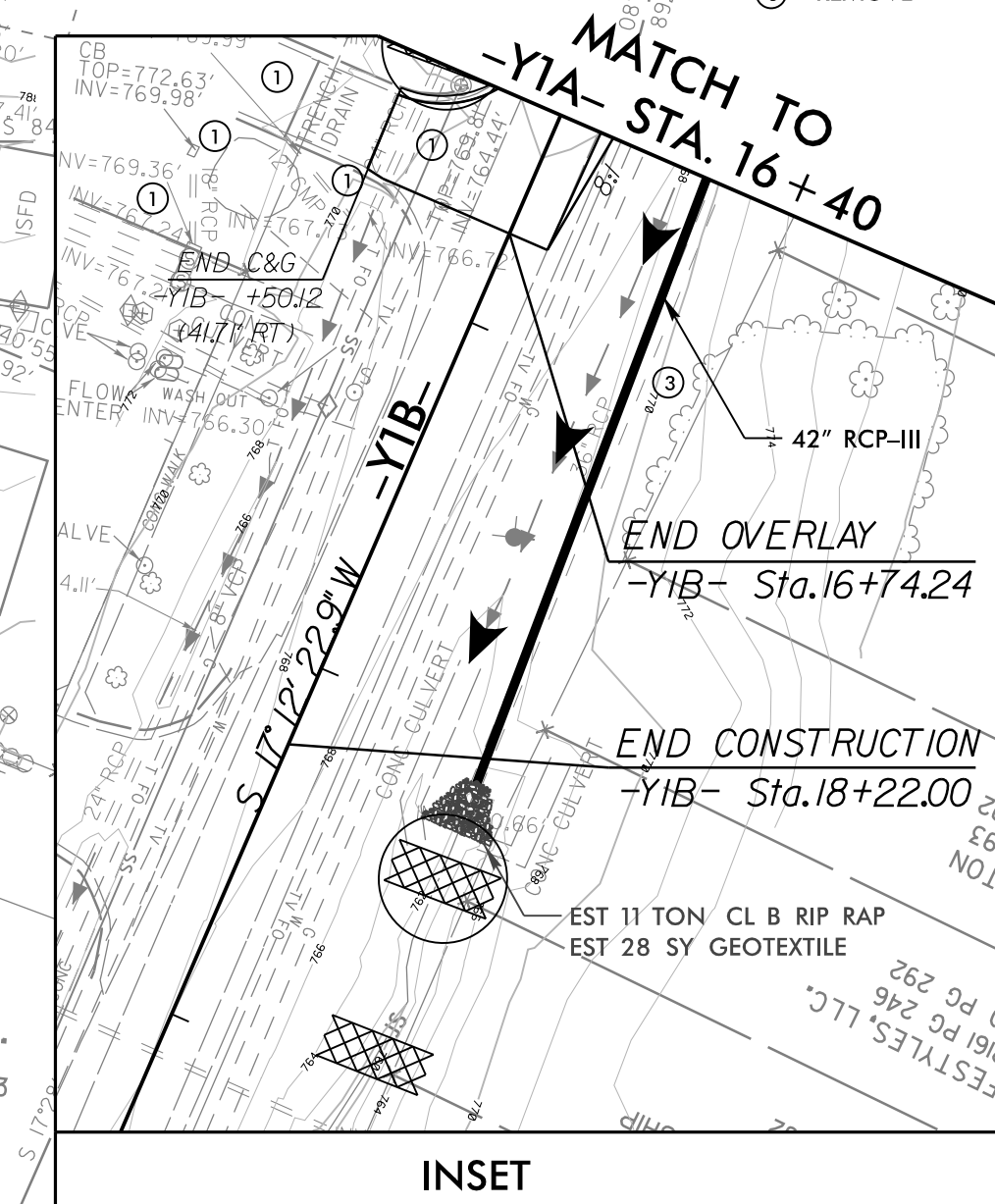
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NAD 83/NA 2011



- LEGEND**
- ① RETAIN
 - ② PLUG & FILL
 - ③ REMOVE



-RAI- CENTER OF CIRCLE
-Y1A- STA. 18+56.89 (O/S 7.5' RT.)
-Y1B- STA. 10+00.00 (O/S 7.5' LT.)
-Y4- STA. 12+66.96 (O/S 7.5' RT.)

-Y1B- CURVE DATA

PI Sta 12+28.57	PI Sta 15+03.87
$\Delta = 36^\circ 48' 58.0''$ (RT)	$\Delta = 23^\circ 21' 47.5''$ (LT)
D = 10' 44' 58.8"	D = 10' 44' 58.8"
L = 342.49'	L = 217.34'
T = 177.39'	T = 110.20'
R = 533.00'	R = 533.00'
SE = 04	SE = 04
RO = 84'	RO = 84'

-Y4- CURVE DATA

PI Sta 11+80.23	PI Sta 10+00.06
$\Delta = 11^\circ 45' 37.5''$ (RT)	$\Delta = 359^\circ 52' 52.0''$ (LT)
D = 16' 22' 12.8"	D =
L = 71.84'	L =
T = 36.05'	T =
R = 350.00'	R =
SE = NC	SE =

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION
DEVICES IN LIEU OF ROCK INLET SEDIMENT
TRAPS, TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT
OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

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

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL
REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY
NEED TO BE INSTALLED AS DIRECTED BY THE
ENGINEER.

****** SEE INSET FOR PROPOSED
DRAINAGE PLANS BEYOND
ROADWAY PROJECT LIMITS

PROPOSED PIPE 0630 TO 0631
OUTFALLS TO A LARGE WELL
VEGETATED DITCH. THIS DITCH
CONVEYS THE RUNOFF TO THE
RETENTION POND LOCATED BEHIND
THE NORTH MECKLENBURG
ANIMAL HOSPITAL.

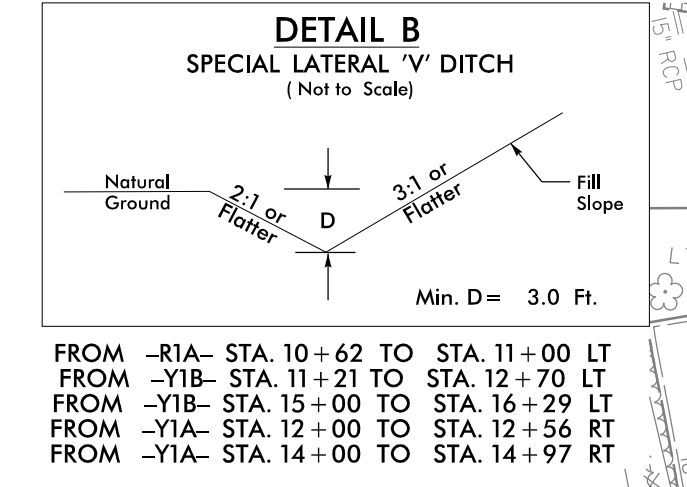
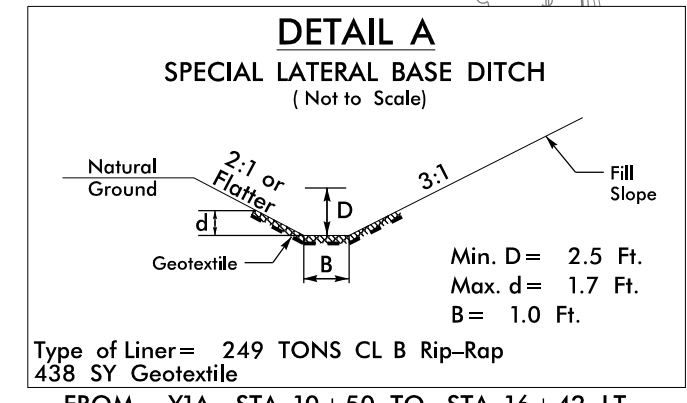
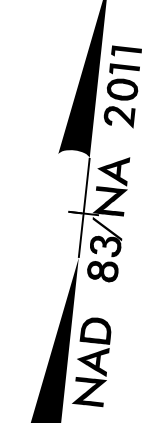
END GRADE
BEGIN OVERLAY
-Y1B- STA. 16+20.00

MATCH TO INSET
-Y1A- STA. 16+40

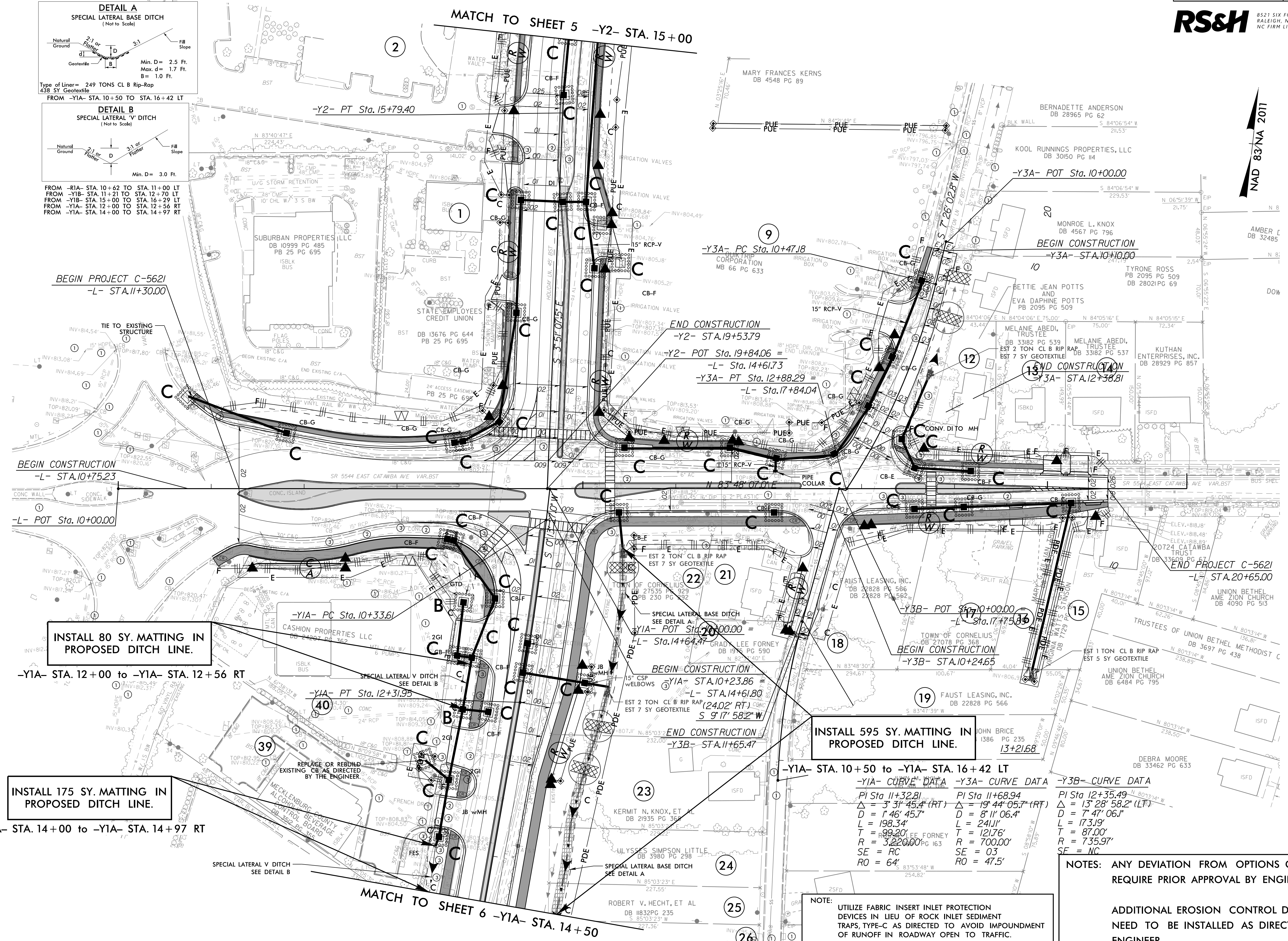
REVISIONS

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BEGIN PROJECT C-5621
-L- STA. 11+30.00

BEGIN CONSTRUCTION
-L- STA. 10+75.23

-L- POT Sta. 10+00.00

INSTALL 80 SY. MATTING IN
PROPOSED DITCH LINE.

-Y1A- STA. 12+00 to -Y1A- STA. 12+56 RT

INSTALL 175 SY. MATTING IN
PROPOSED DITCH LINE.

-Y1A- STA. 14+00 to -Y1A- STA. 14+97 RT

MATCH TO SHEET 6 -Y1A- STA. 14+50

MATCH TO SHEET 5 -Y2- STA. 15+00

INSTALL 595 SY. MATTING IN
PROPOSED DITCH LINE.

-Y1A- STA. 10+50 to -Y1A- STA. 16+42 LT

-Y1A- CURVE DATA	-Y3A- CURVE DATA	-Y3B- CURVE DATA
PI Sta 11+32.81	PI Sta 11+68.94	PI Sta 12+35.49
$\Delta = 3^{\circ} 31' 45.4" (RT)$	$\Delta = 19^{\circ} 44' 05.7" (RT)$	$\Delta = 13^{\circ} 28' 58.2" (LT)$
D = 1' 46' 45.7"	D = 8' 17' 06.4"	D = 7' 47' 06.1"
L = 198.34'	L = 241.11'	L = 173.19'
T = 99.20'	T = 121.76'	T = 87.00'
R = 3220.00'	R = 700.00'	R = 735.97'
SE = RC	SE = 03	SE = NC
RO = 64'	RO = 47.5'	

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAPS, TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

END PROJECT C-5621
-L- STA. 20+65.00

END CONSTRUCTION
-Y2- STA. 19+53.79

-L- STA. 14+61.73

-Y3A- PT Sta. 12+88.29 =
-L- STA. 17+84.04

END CONSTRUCTION
-Y3A- STA. 12+38.81

BEGIN CONSTRUCTION
-Y3B- STA. 10+24.65

-L- STA. 17+53.86

BEGIN CONSTRUCTION
-Y1A- STA. 10+23.86 =
-L- STA. 14+64.47

-L- STA. 14+61.80

END CONSTRUCTION
-Y3B- STA. 11+65.47

EST 2 TON CL B RIP RAP (24.02' RT)
EST 7 SY GEOTEXTILE
S 9' 17" 58.2" W

EST 1 TON CL B RIP RAP
EST 5 SY GEOTEXTILE

EST 2 TON CL B RIP RAP
EST 7 SY GEOTEXTILE

EST 2 TON CL B RIP RAP
EST 7 SY GEOTEXTILE

EST 2 TON CL B RIP RAP
EST 7 SY GEOTEXTILE

EST 2 TON CL B RIP RAP
EST 7 SY GEOTEXTILE

EST 2 TON CL B RIP RAP
EST 7 SY GEOTEXTILE

EST 2 TON CL B RIP RAP
EST 7 SY GEOTEXTILE

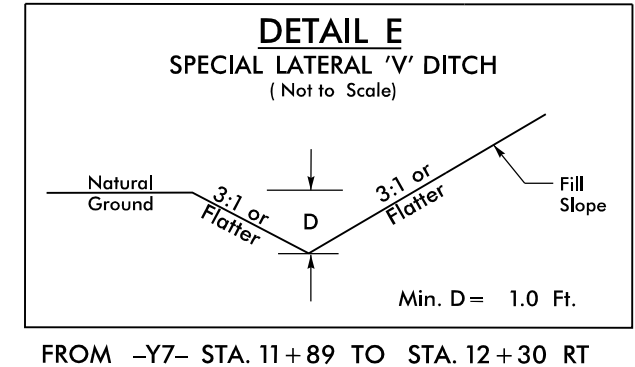
EST 2 TON CL B RIP RAP
EST 7 SY GEOTEXTILE

EST 2 TON CL B RIP RAP
EST 7 SY GEOTEXTILE

EST 2 TON CL B RIP RAP
EST 7 SY GEOTEXTILE

NAD 83/NA 2011

- LEGEND**
- ① RETAIN
 - ② PLUG & FILL
 - ③ REMOVE



-Y6- CURVE DATA
 PI Sta 10+90.94
 $\Delta = 27^\circ 37' 05.5''$ (LT)
 $D = 15^\circ 29' 07.2''$
 $L = 178.35'$
 $T = 90.94'$
 $R = 370.00'$
 SE = NC**

-Y7- CURVE DATA

PI Sta 11+07.12 $\Delta = 52^\circ 01' 23.6''$ (RT) $D = 35^\circ 48' 35.5''$ $L = 145.28'$ $T = 78.08'$ $R = 160.00'$	PI Sta 14+19.58 $\Delta = 46^\circ 05' 46.1''$ (LT) $D = 27^\circ 17' 01.3''$ $L = 168.95'$ $T = 89.35'$ $R = 210.00'$ SE = 02** RO = 38'
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-Y2- CURVE DATA

PI Sta 10+79.68 $\Delta = 39^\circ 15' 6.2''$ (RT) $D = 35^\circ 48' 35.5''$ $L = 109.61'$ $T = 57.05'$ $R = 160.00'$	PI Sta 15+20.86 $\Delta = 5^\circ 35' 38.8''$ (LT) $D = 4^\circ 46' 28.7''$ $L = 117.16'$ $T = 58.63'$ $R = 1,200.00'$	PI Sta 10+00.15 $\Delta = 35^\circ 43' 22.9''$ (LT) $D = 95^\circ 29' 34.7''$ $L = 376.70'$ $T = 0.15'$ $R = 60.00'$ **
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-Y8- CURVE DATA
 PI Sta 10+88.80
 $\Delta = 30^\circ 33' 51.0''$ (RT)
 $D = 22^\circ 55' 05.9''$
 $L = 133.36'$
 $T = 68.31'$
 $R = 250.00'$
 SE = 04
 RO = 76'

-RA2- CENTER OF CIRCLE =
 -Y2- STA.10+00.00 (O/S 7.5' RT.)
 -Y6- STA.14+15.78 (O/S 7.5' RT.)
 -Y7- STA.10+00.00 (O/S 7.5' RT.)

BEGIN CONSTRUCTION
 -Y6- STA.11+75.00
 -Y2- PC Sta.10+22.62
 -Y2- STA.10+60.27 =
 -RA2- Sta.13+28.44
BEGIN CONSTRUCTION
 -Y2- STA.10+91.85 =
 -RA2- Sta.13+36.37

-Y2- PT Sta.11+32.23

-Y2- PC Sta.14+62.23

MATCH TO SHEET 4 -Y2- STA. 15+00

-Y6- PT Sta.11+78.35
 $S 38^\circ 37' 19.2'' E$
END CONSTRUCTION
 -Y6- STA.13+26.09 =
 -RA2- STA.12+21.41
-Y6- STA.13+56.25 =
 -RA2- STA.12+18.89
END CONSTRUCTION
 -Y7- STA.12+30.00
BEGIN CONSTRUCTION
 -Y7- STA.10+89.45 =
 -RA2- STA.11+30.44
-Y7- PT Sta.11+74.32
-Y7- PC Sta.13+30.23

INSTALL 75 SY. MATTING IN PROPOSED DITCH LINE.

-Y7- STA. 11+89 to -Y7- STA. 12+30 RT

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAPS, TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

REVISIONS

13-MAR-2023 13:43
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 SHEET NO. EC-8/CONST.5

NAD 83/NA 2011

INSTALL 175 SY. MATTING IN PROPOSED DITCH LINE.

-Y1A- STA. 14+00 to -Y1A- STA. 14+97 RT

INSTALL 190 SY. MATTING IN PROPOSED DITCH LINE.

-Y1A- STA. 15+50 to -Y1A- STA. 16+34 RT

INSTALL 595 SY. MATTING IN PROPOSED DITCH LINE.

-Y1A- STA. 10+50 to -Y1A- STA. 16+42 LT

INSTALL 140 SY. MATTING IN PROPOSED DITCH LINE.

-R1A- STA. 10+62 to -R1A- STA. 11+62 LT

INSTALL 120 SY. MATTING IN PROPOSED DITCH LINE.

-R1A- STA. 11+27 to -R1A- STA. 11+30 LT

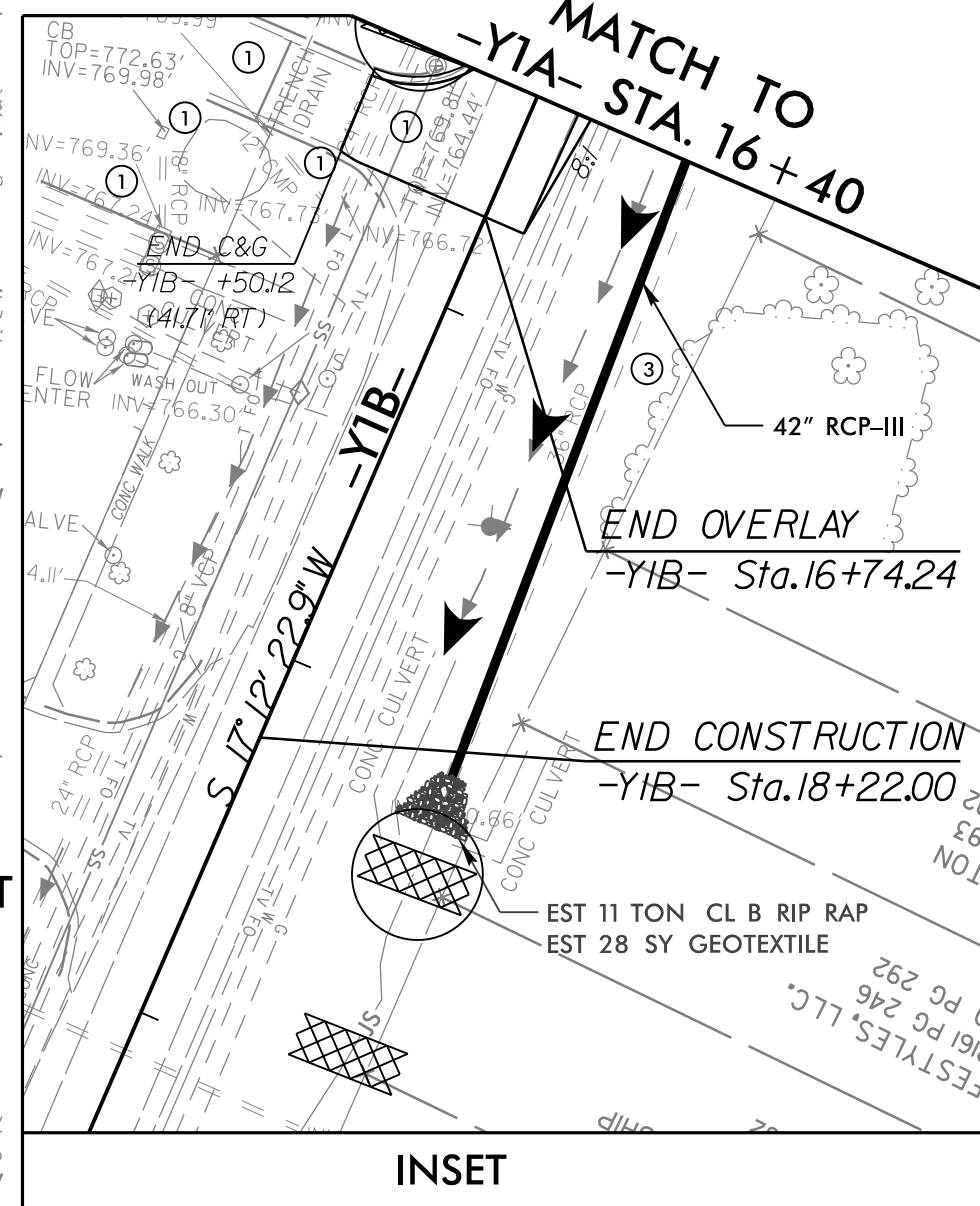
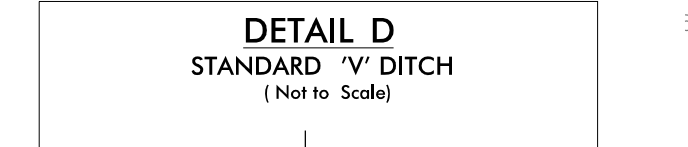
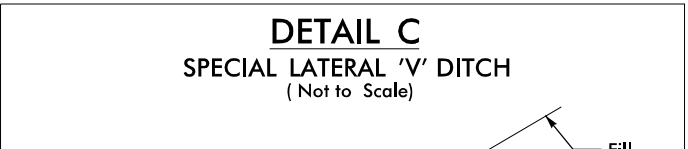
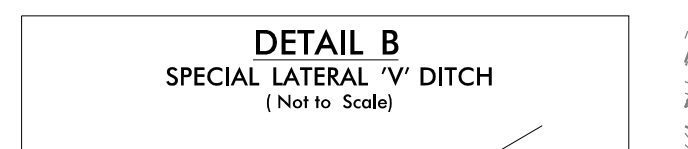
INSTALL 265 SY. MATTING IN PROPOSED DITCH LINE.

-Y1B- STA. 11+21 to -Y1A- STA. 12+70 LT

INSTALL 210 SY. MATTING IN PROPOSED DITCH LINE.

-Y1B- STA. 15+00 to -Y1A- STA. 16+29 LT

- LEGEND
- ① RETAIN
 - ② PLUG & FILL
 - ③ REMOVE



-RAI- CENTER OF CIRCLE
 -Y1A- STA. 18+56.89 (O/S 7.5' RT.)
 -Y1B- STA. 10+00.00 (O/S 7.5' LT.)
 -Y4- STA. 12+66.96 (O/S 7.5' RT.)

-Y1B- CURVE DATA

PI Sta 12+28.57	PI Sta 15+03.87
$\Delta = 36^{\circ} 48' 58.0'' (RT)$	$\Delta = 23^{\circ} 21' 47.5'' (LT)$
D = 10' 44' 58.8"	D = 10' 44' 58.8"
L = 342.49'	L = 217.34'
T = 177.39'	T = 110.20'
R = 533.00'	R = 533.00'
SE = 04	SE = 04
RO = 84'	RO = 84'

-Y4- CURVE DATA

PI Sta 11+80.23	PI Sta 10+00.06
$\Delta = 11^{\circ} 45' 37.5'' (RT)$	$\Delta = 359^{\circ} 52' 52.0'' (LT)$
D = 16' 22' 12.8"	D = 95' 29' 34.7"
L = 71.84'	L = 376.87'
T = 36.05'	T = 0.06'
R = 350.00'	R = 60.00'
SE = NC	

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAPS, TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY BE INSTALLED AS DIRECTED BY THE ENGINEER.

SEE INSET FOR PROPOSED DRAINAGE PLANS BEYOND ROADWAY PROJECT LIMITS

REVISIONS

REVISED: 03/13/21
DESIGNED: J. L. SHERIDAN
CHECKED: J. L. SHERIDAN
DATE: 03/13/21

PROPOSED PIPE 0630 TO 0631
OUTFALLS TO A LARGE WELL
VEGETATED DITCH. THIS DITCH
CONVEYS THE RUNOFF TO THE
RETENTION POND LOCATED BEHIND
THE NORTH MECKLENBURG
ANIMAL HOSPITAL.

MATCH TO INSET
-Y1A- STA. 16+40

END GRADE
BEGIN OVERLAY
-Y1B- STA. 16+20.00

WILLIE HAYWOOD, GASTON
DB 5223 PG 981
PB 230 PG 292

ARMETTA M. CATHART
DB 33059 PG 391
PB 230 PG 292

ERIC L. FORNEY, ET AL
DB 5022 PG 395
PB 230 PG 292

GREYRON, LLC
DB 25824 PG 64
PB 230 PG 292

KUNKLEMAN ASSOC
LIMITED PARTNERSHIP
DB 12309 PG 956
PB 230 PG 292

JERRY M. LITTLE
DB 6416 PG 551
PB 230 PG 292

MARY SLOAN
DB 3372 PG 556
PB 230 PG 292

ANNIE SLOAN
DB 794 PG 581
PB 230 PG 292

UNANA SPRINGS
DB 14445 PG 685
PB 230 PG 292

CHRISTAL D. FORNEY
DB 30052 PG 24
PB 230 PG 292

ROBERT SHERILL
DB 5132 PG 170

MARIAN L. BROOKS
DB 4673 PG 419
PB 230 PG 292

TOWN OF CORNELIUS
DB 29562 PG 650

TOWN OF CORNELIUS
DB 25693 PG 803
DB 25693 PG 805

DIXON MOTOR COMPANY
DB 3178 PG 989
DB 4089 PG 528

SPECIAL LATERAL V DITCH
SEE DETAIL B

MATCH TO SHEET 4
-Y1A- STA. 14+50