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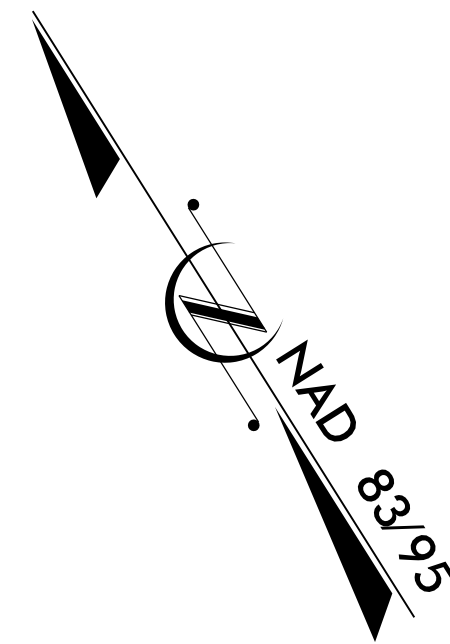
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with their signature on that page.**

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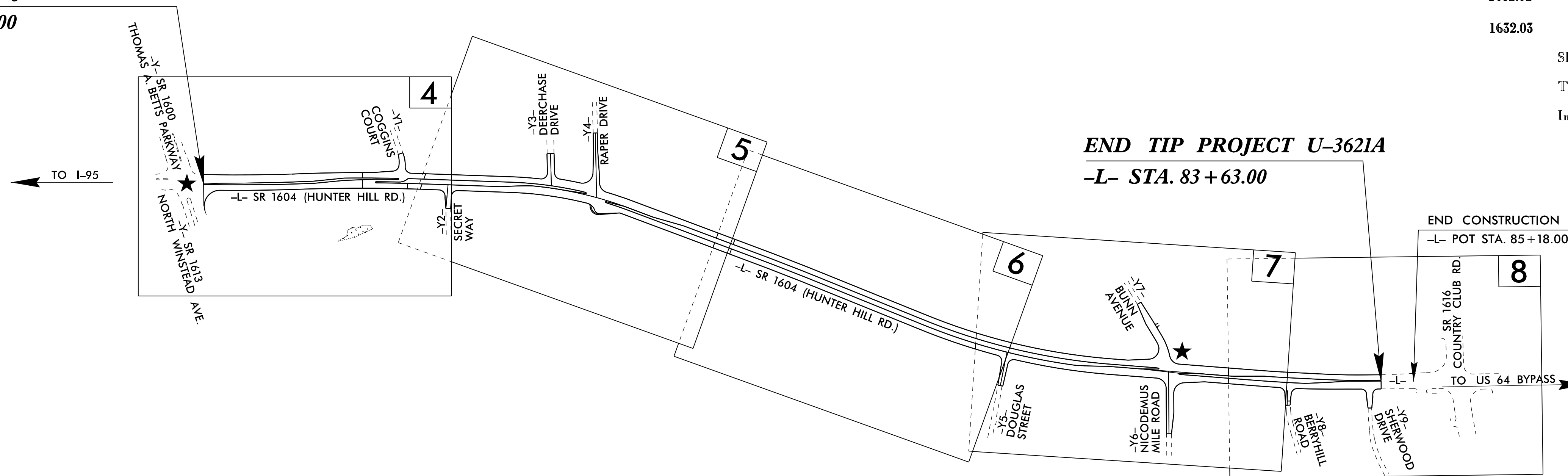
TIP PROJECT: U-3621A

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

**LOCATION: ROCKY MOUNT - SR 1604 (HUNTER HILL ROAD)
 FROM SR 1613 (NORTH WINSTEAD AVE) TO
 SR 1616 (COUNTRY CLUB ROAD)
 TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND SIGNALS**



BEGIN TIP PROJECT U-3621A
 -L- STA. 25 + 75.00



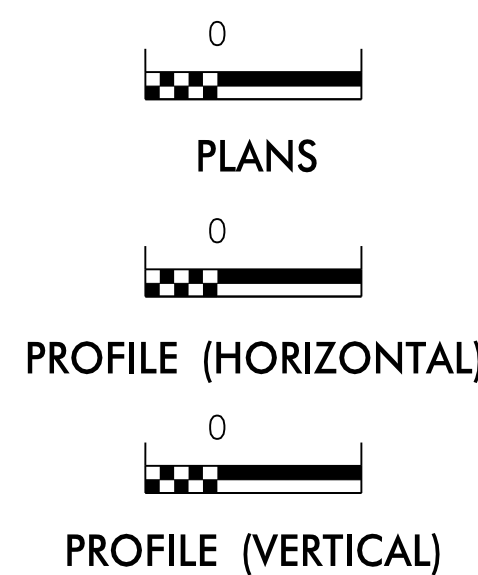
EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	△△△△△
1622.01	Temporary Berms and Slope Drains	— — — — —
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	— — — — —
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	— — — — —
1634.01	Temporary Rock Sediment Dam Type-A	▨
1634.02	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.**

**THIS PROJECT HAS
 BEEN DESIGNED TO
 SENSITIVE WATERSHED
 STANDARDS.**

GRAPHIC SCALE



ROADSIDE ENVIRONMENTAL UNIT
 DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA

**THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY
 WITH THE REGULATIONS SET FORTH BY THE
 NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 1, 2016
 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND
 NATURAL RESOURCES DIVISION OF WATER QUALITY.**

Prepared In the Office of:
ROADSIDE ENVIRONMENTAL UNIT
 1 South Wilmington St.
 Raleigh, NC 27611
2012 STANDARD SPECIFICATIONS

Designed by:
Noelle Ring 3456
 NAME LEVEL III CERTIFICATION NO.

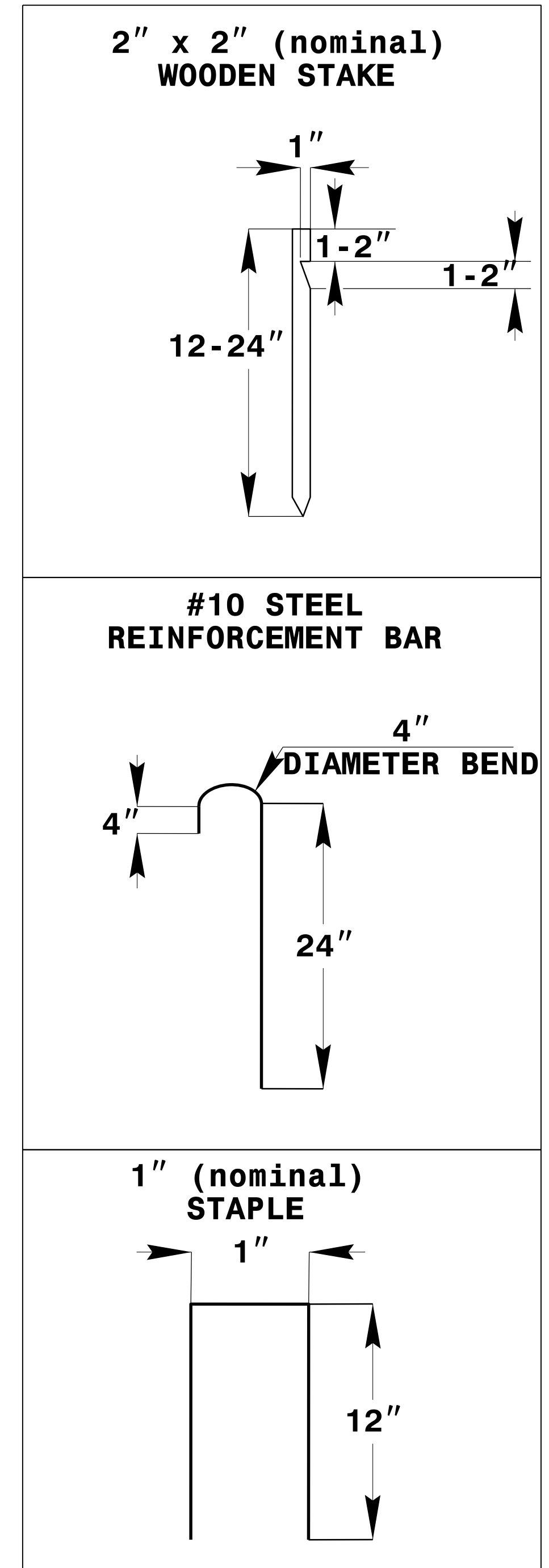
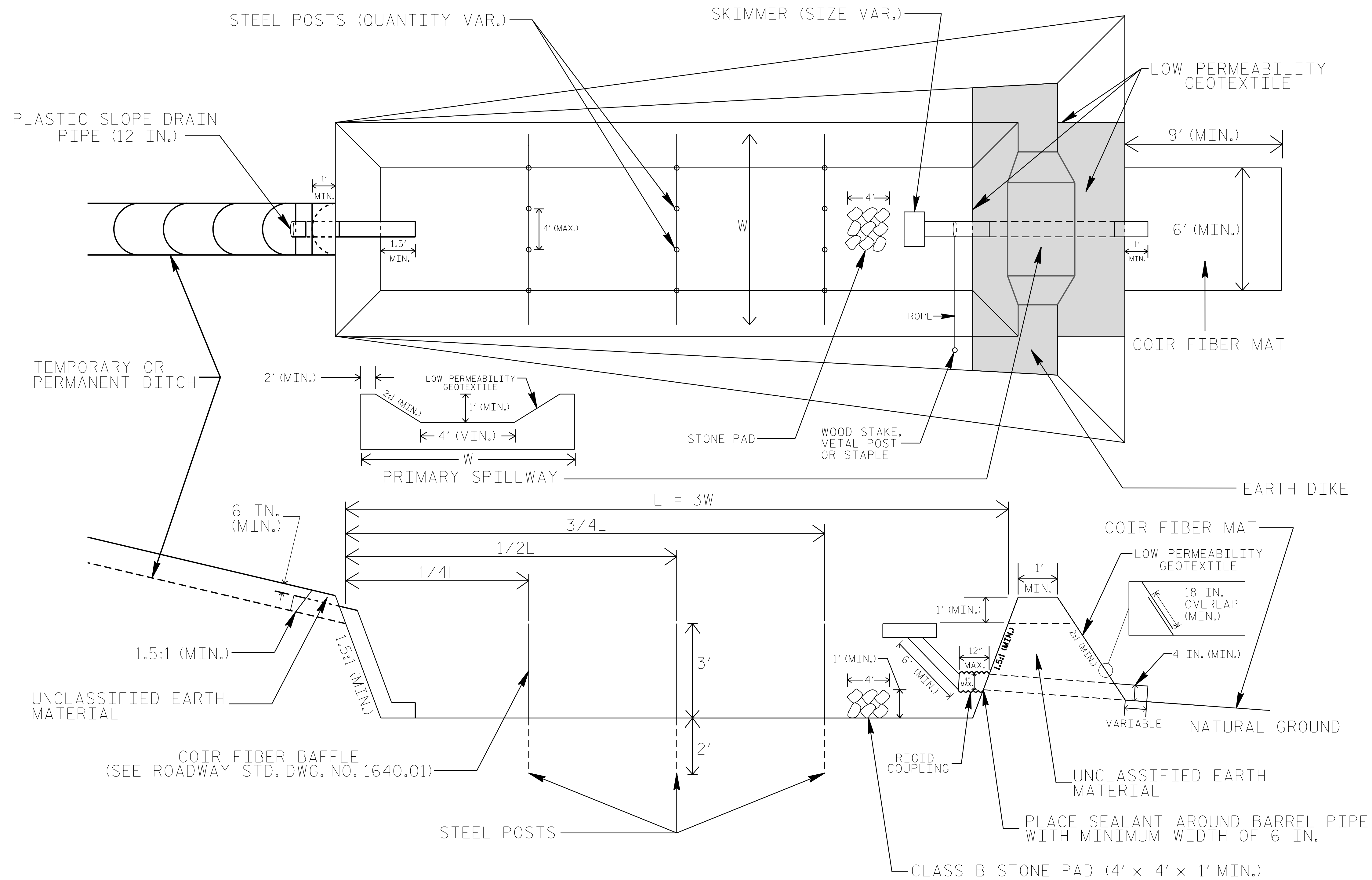
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2012 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	1633.03 Temporary Rock Silt Check Type C
1630.02 Silt Basin Type A	1634.01 Temporary Rock Sediment Dam Type A
1630.03 Temporary Silt Ditch	1634.02 Temporary Rock Sediment Dam Type B
1630.04 Stilling Basin	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.05 Temporary Diversion	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.06 Special Stilling Basin	1640.01 Coir Fiber Jaffle
1631.01 Matting Installation	1645.01 Temporary Stream Crossing

PROJECT REFERENCE NO. U-3621A	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SKIMMER BASIN WITH BAFFLES DETAIL (EAST)



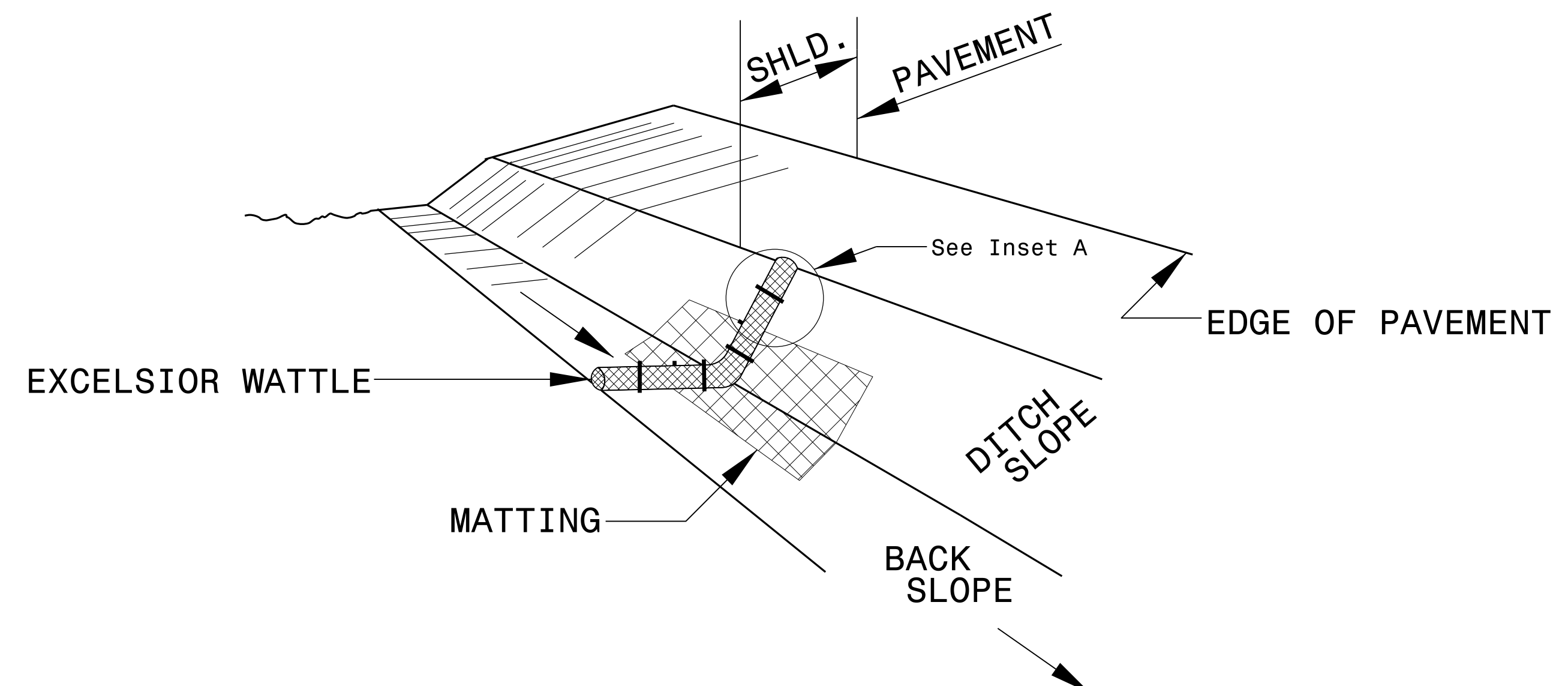
NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
3. FOR BASIN DEPTH OF 3 FT., THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
4. DETERMINE PRIMARY SPILLWAY WEIR LENGTH (FT.) USING $Q/0.8$, WHERE Q IS FLOW RATE (CFS) INTO BASIN.
5. PLASTIC SLOPE DRAIN PIPE AT INLET OF BASIN MAY BE REPLACED BY FILTRATION GEOTEXTILE OR TARP AS DIRECTED.
6. LOW PERMEABILITY GEOTEXTILE FOR PRIMARY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

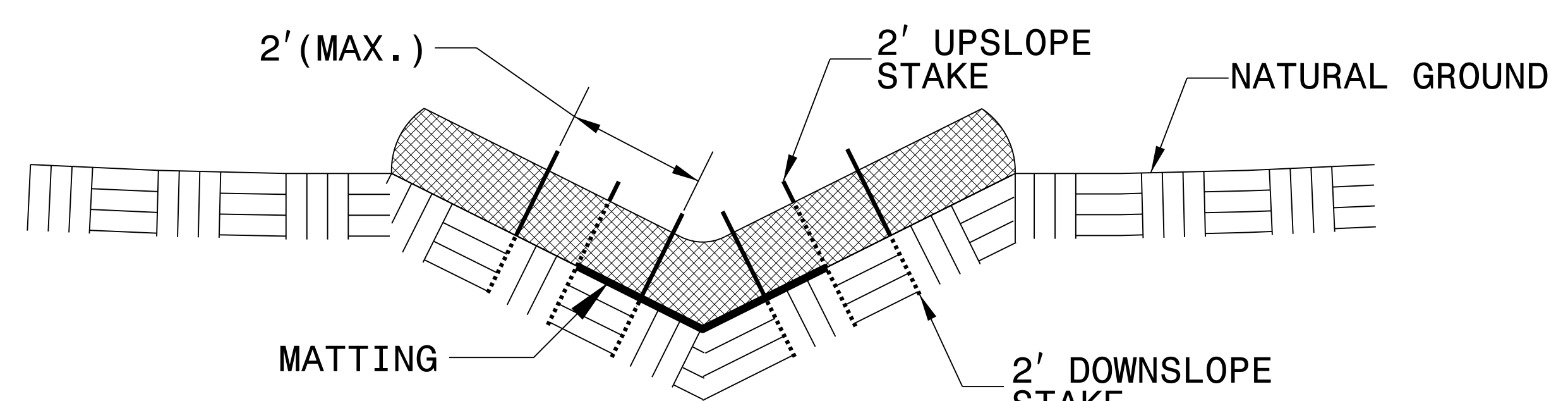
NOT TO SCALE

PROJECT REFERENCE NO. U-3621A	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

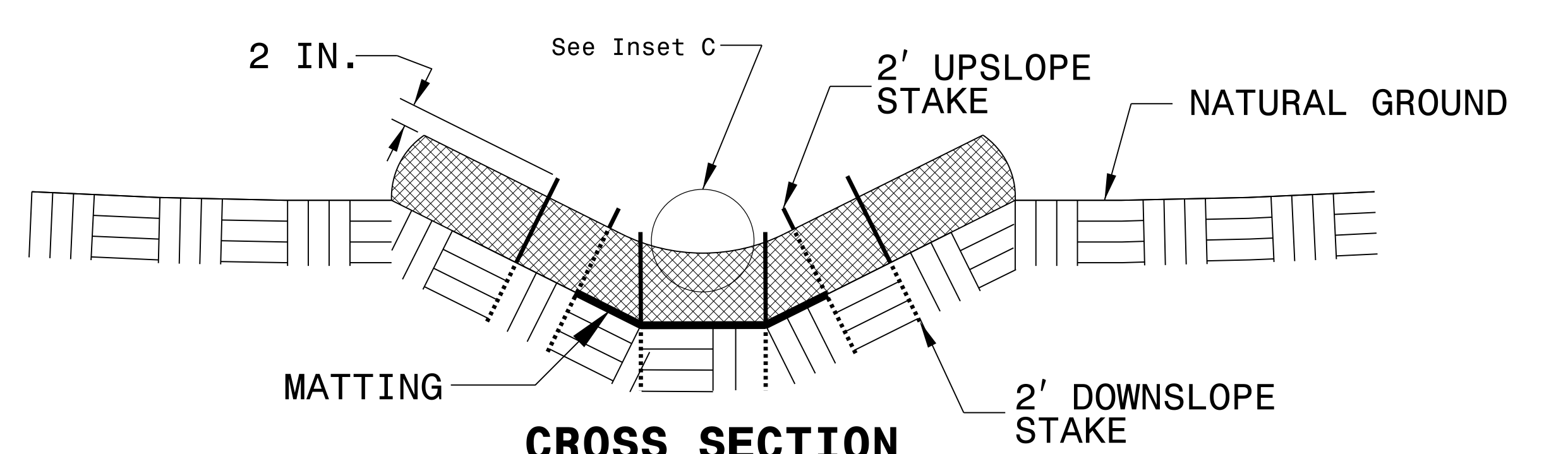
WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



ISOMETRIC VIEW

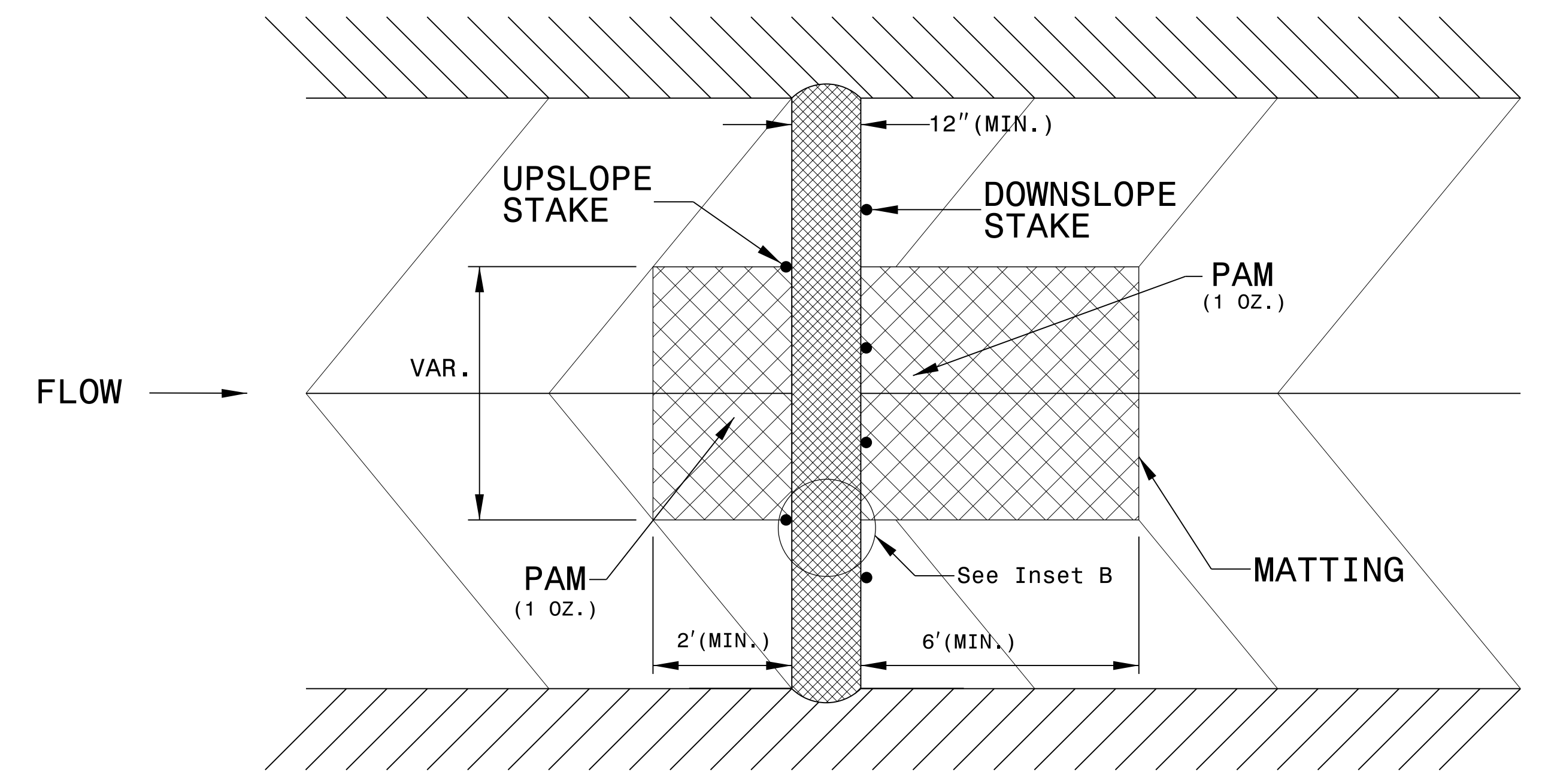
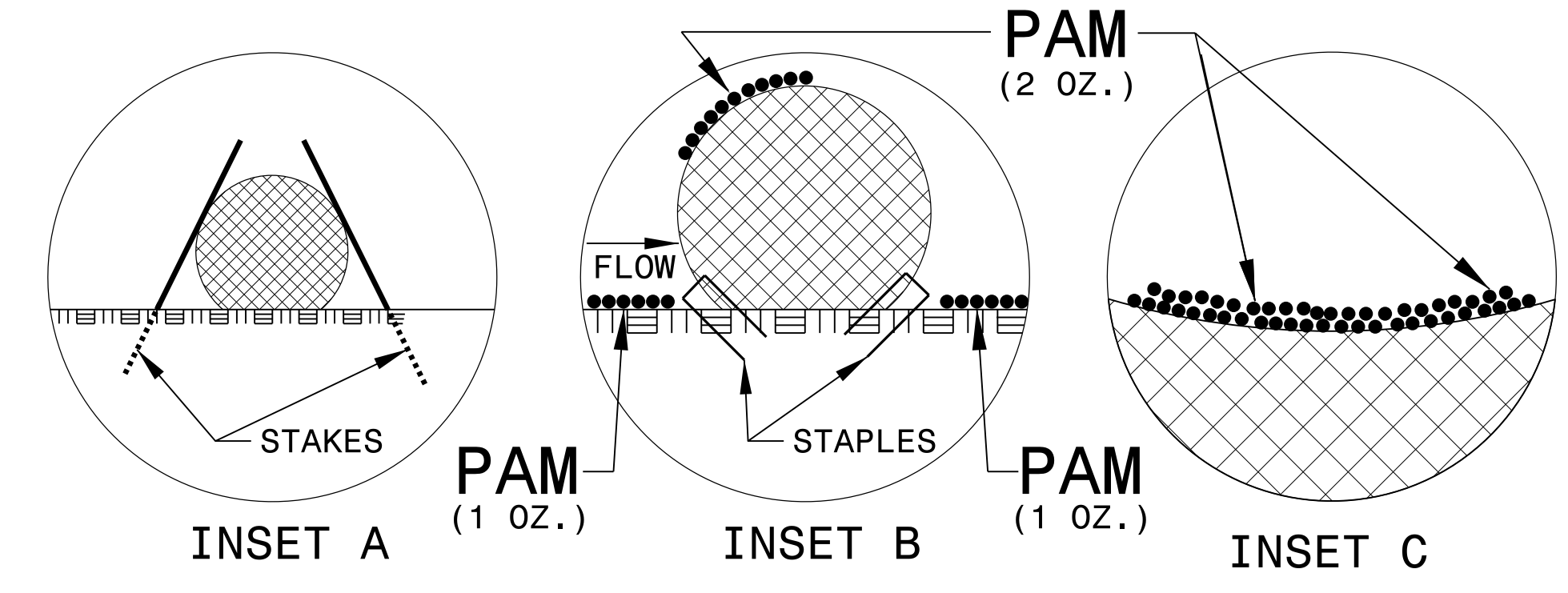


CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

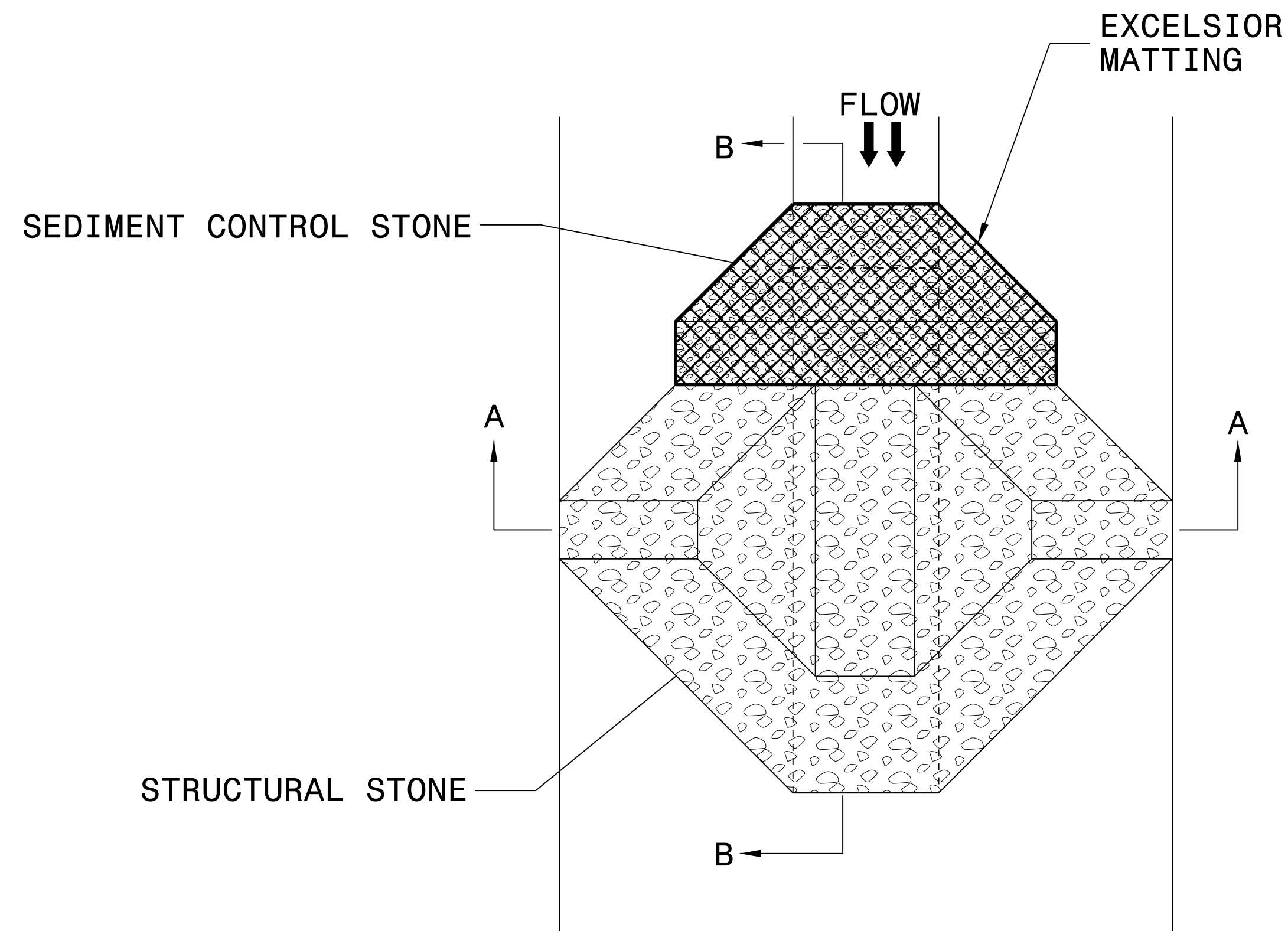
- NOTES:
- USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.
 - USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
 - ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
 - INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE 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.



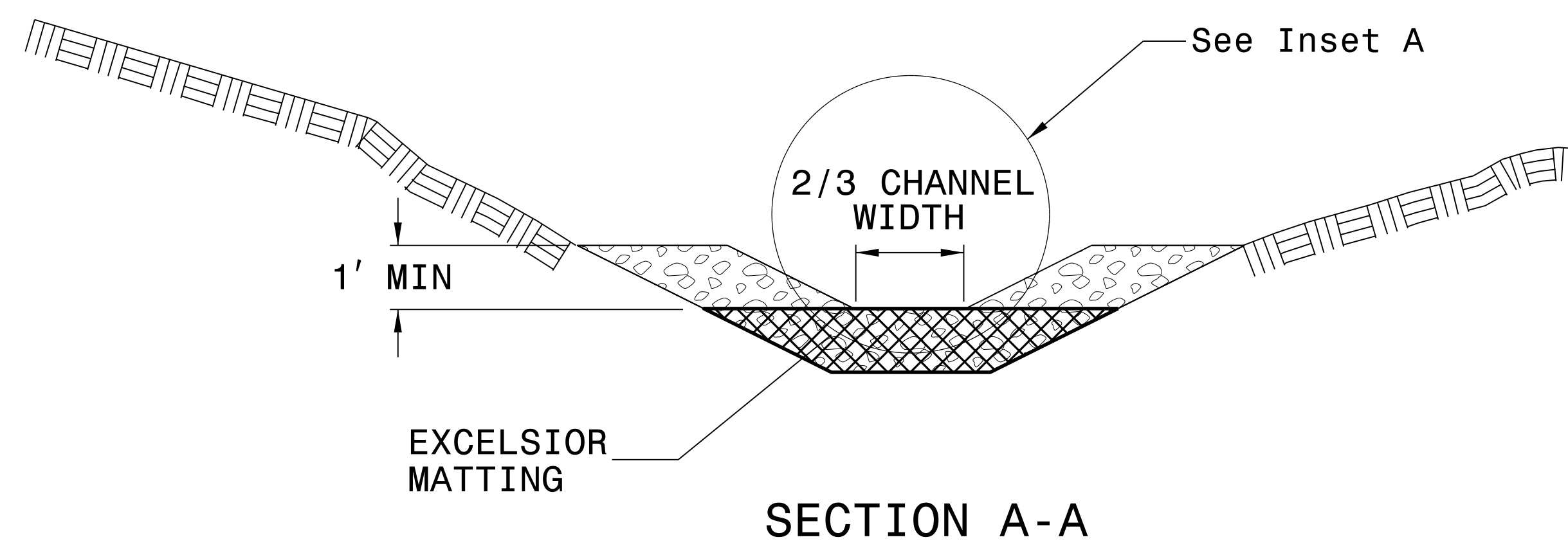
TOP VIEW

PROJECT REFERENCE NO. U-3621A	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



PLAN



SECTION A-A

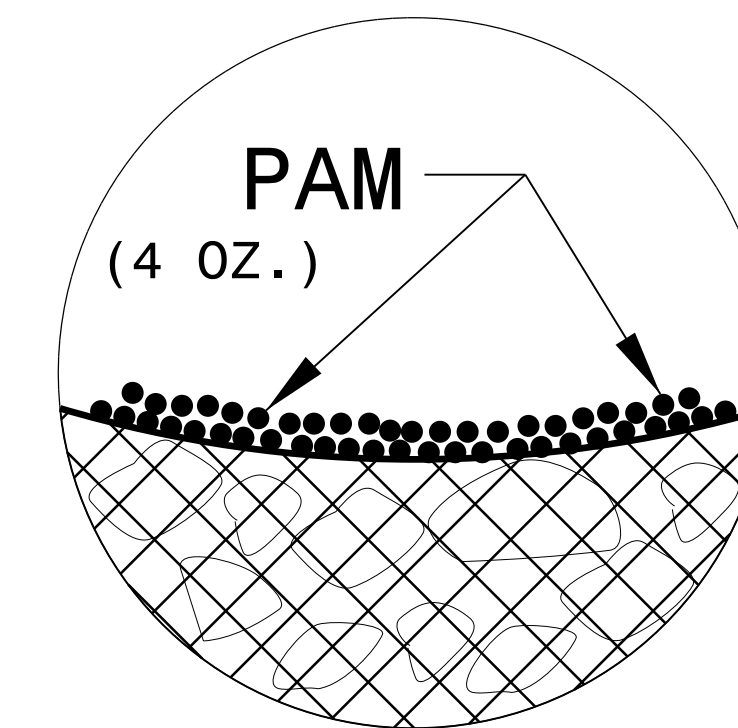
NOTES:

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

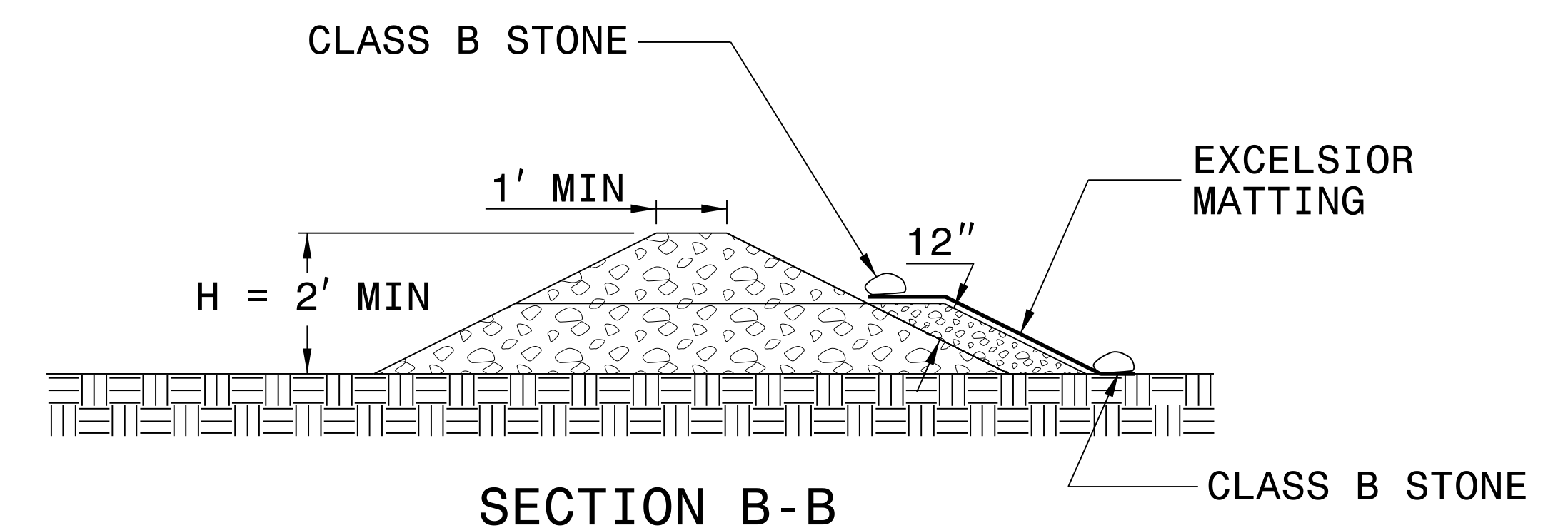
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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.



INSET A



SECTION B-B

NOT TO SCALE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. <i>U-3621A</i>	SHEET NO. <i>EC-3</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

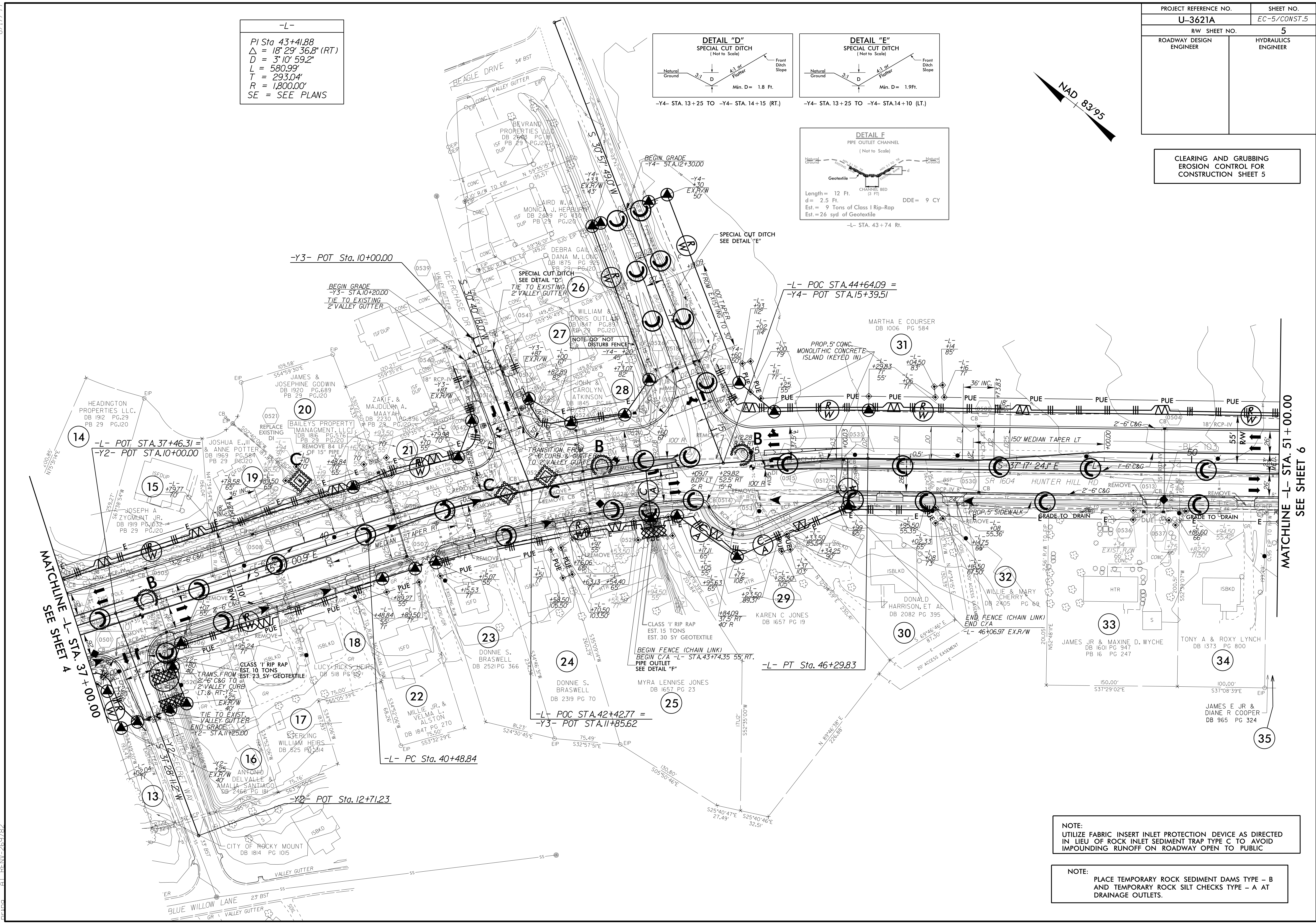
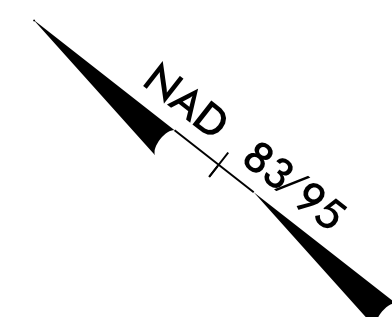
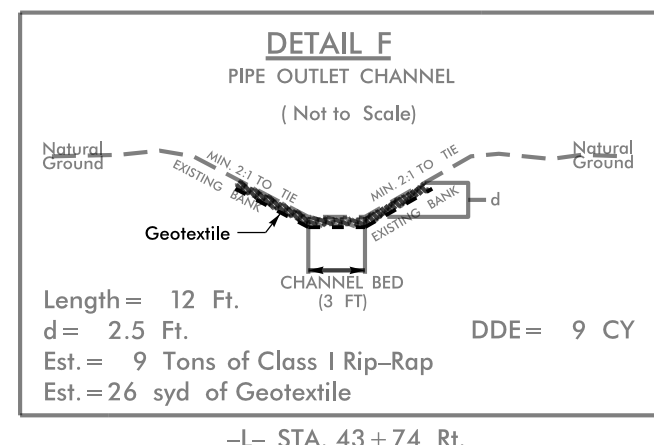
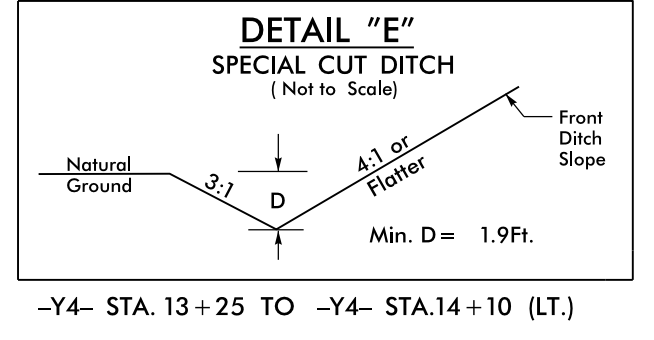
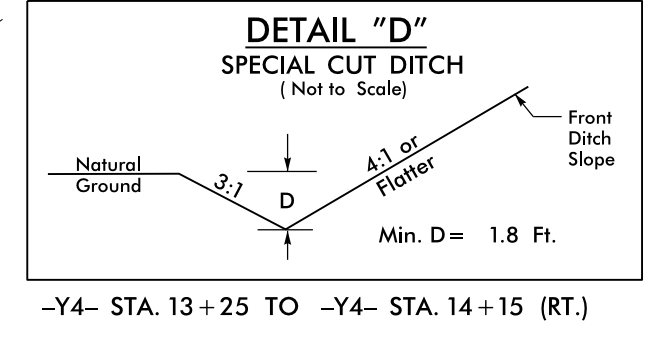
SOIL STABILIZATION TIMEFRAMES

<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.

PROJECT REFERENCE NO.	SHEET NO.
U-3621A	EC-5/CONST.5
RW SHEET NO.	5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

-L-
PI Sta 43+41.88
Δ = 18° 29' 36.8" (RT)
D = 3' 10" 59.2"
L = 580.99'
T = 293.04'
R = 1,800.00'
SE = SEE PLANS



NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED
IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO AVOID
IMPOUNDING RUNOFF ON ROADWAY OPEN TO PUBLIC

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

8.17.99
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DATE PLOTTED: 2/23/17 10:00 AM

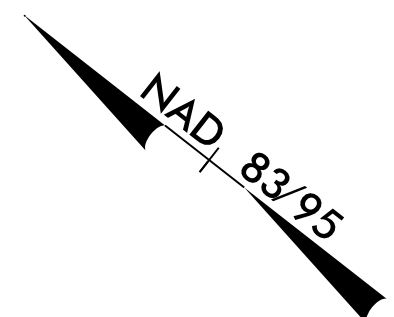
8.17.99

PROJECT REFERENCE NO.	SHEET NO.
U-3621A	EC-6/CONST.6
RW SHEET NO.	6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

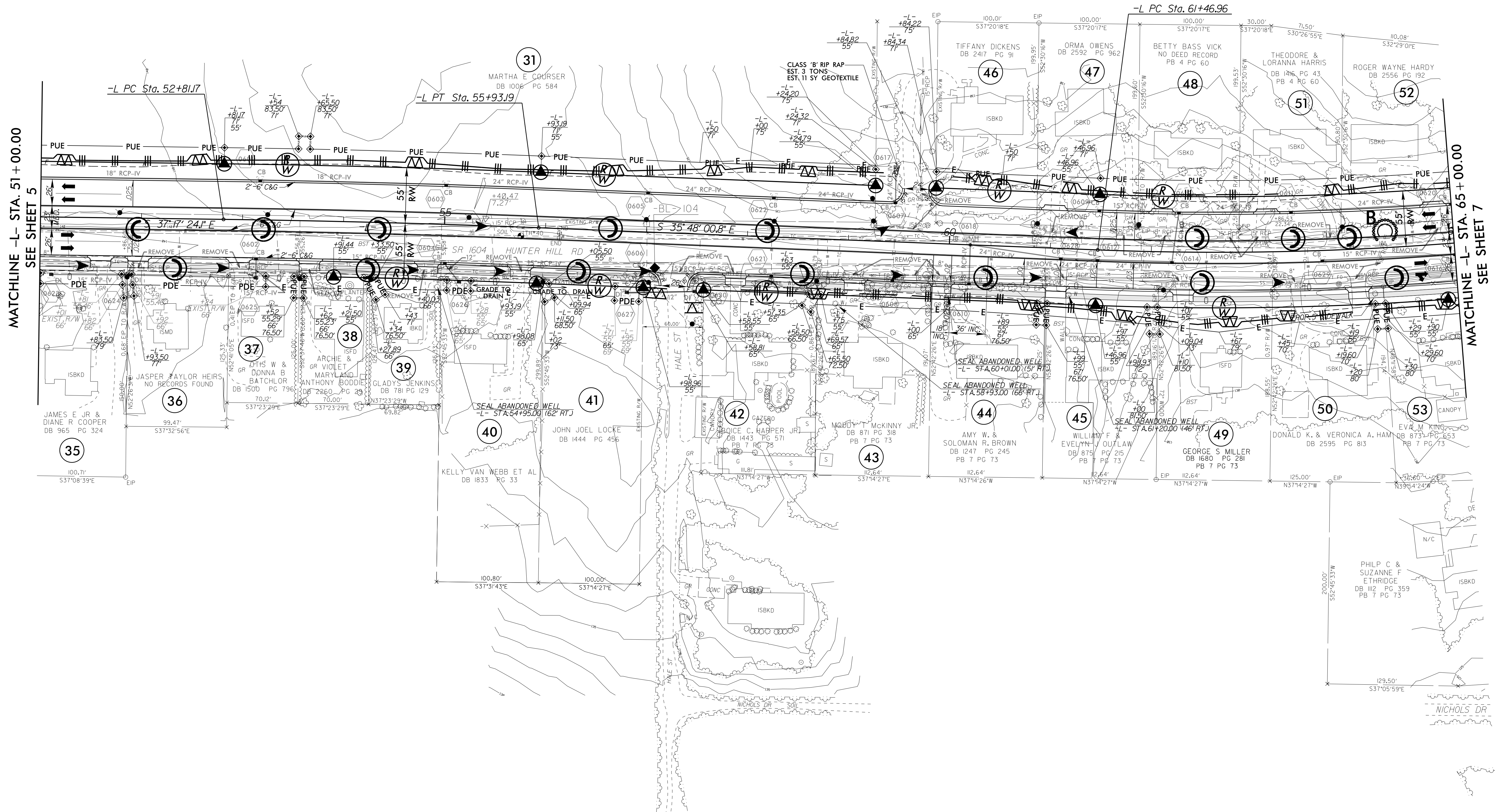
-L-	
PI Sta 54+37.19	PI Sta 66+10.12
$\Delta = 1^{\circ} 29' 23.3" (RT)$	$\Delta = 17^{\circ} 33' 09.6" (LT)$
$D = 0^{\circ} 28' 38.9"$	$D = 1^{\circ} 54' 35.5"$
$L = 312.02'$	$L = 919.06'$
$T = 156.02'$	$T = 463.16'$
$R = 12,000.00'$	$R = 3,000.00'$
SE = SEE PLANS	SE = SEE PLANS

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

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO AVOID IMPOUNDING RUNOFF ON ROADWAY OPEN TO PUBLIC



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6



MATCHLINE -L- STA. 51 + 00.00
SEE SHEET 5

MATCHLINE -L- STA. 65 + 00.00
SEE SHEET 7

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PROJECT REFERENCE NO.	SHEET NO.
U-3621A	EC-7/CONST.7
R/W SHEET NO.	7
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 7

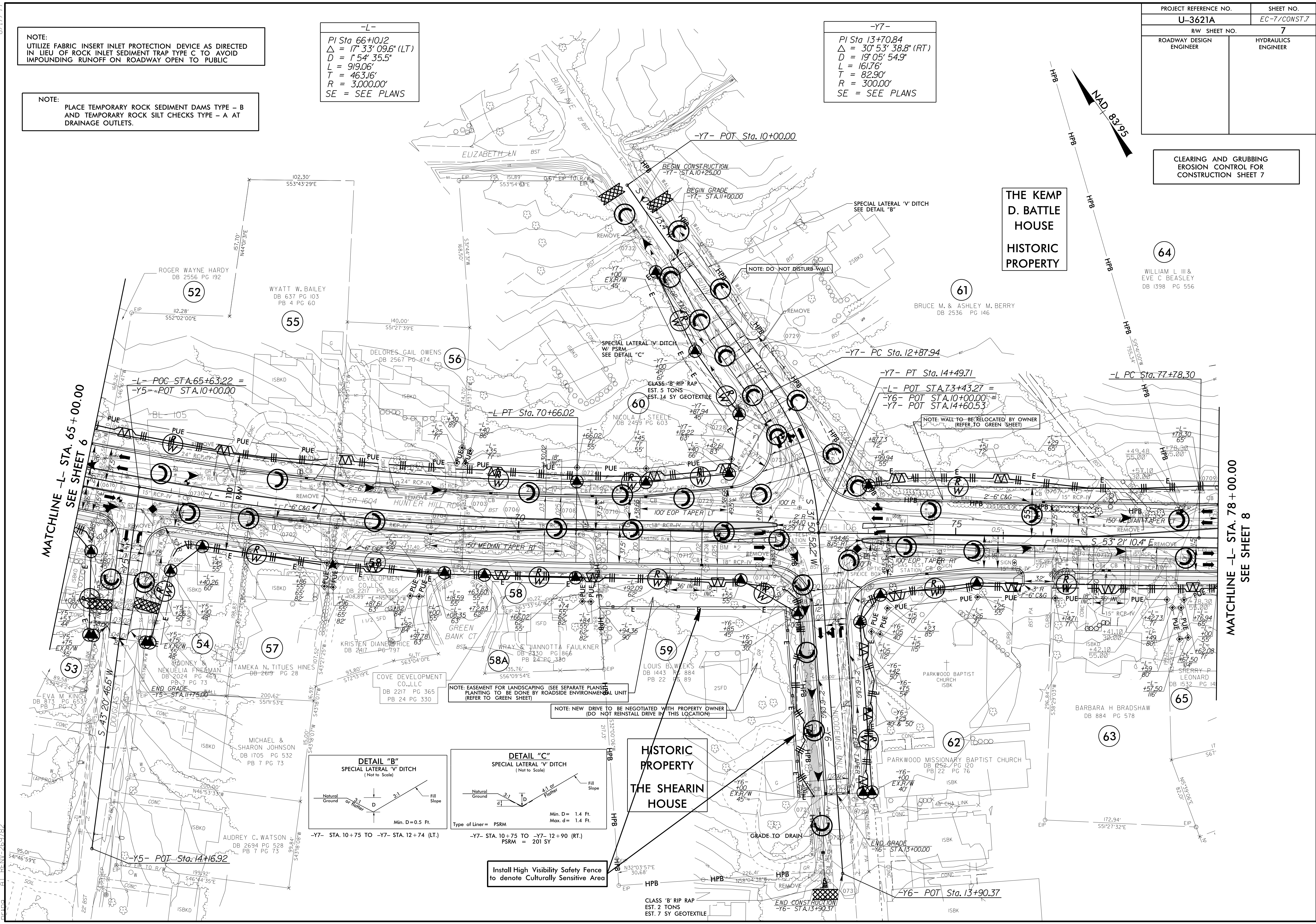
NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO AVOID IMPOUNDING RUNOFF ON ROADWAY OPEN TO PUBLIC

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

-L-
PI Sta 66+10.12
 $\Delta = 17^{\circ} 33' 09.6"$ (LT)
D = 154' 35.5"
L = 919.06'
T = 463.16'
R = 3,000.00'
SE = SEE PLANS

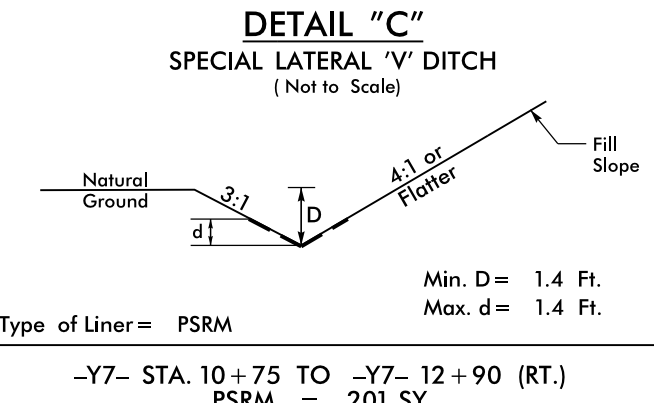
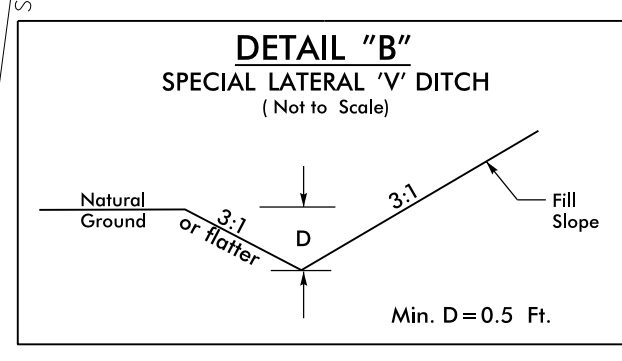
-Y7-
PI Sta 13+70.84
 $\Delta = 30^{\circ} 53' 38.8"$ (RT)
D = 19' 05' 54.9"
L = 161.76'
T = 82.90'
R = 300.00'
SE = SEE PLANS

8.17.99
FEB-2017 11:20
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PLotted At: 11:20 AM 2/28/17



THE KEMP D. BATTLE HOUSE HISTORIC PROPERTY

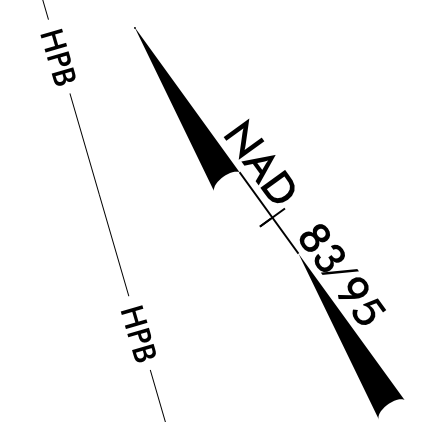
HISTORIC PROPERTY THE SHEARIN HOUSE



Install High Visibility Safety Fence to denote Culturally Sensitive Area

MATCHLINE -L- STA. 65+00.00
SEE SHEET 6

MATCHLINE -L- STA. 78+00.00
SEE SHEET 8

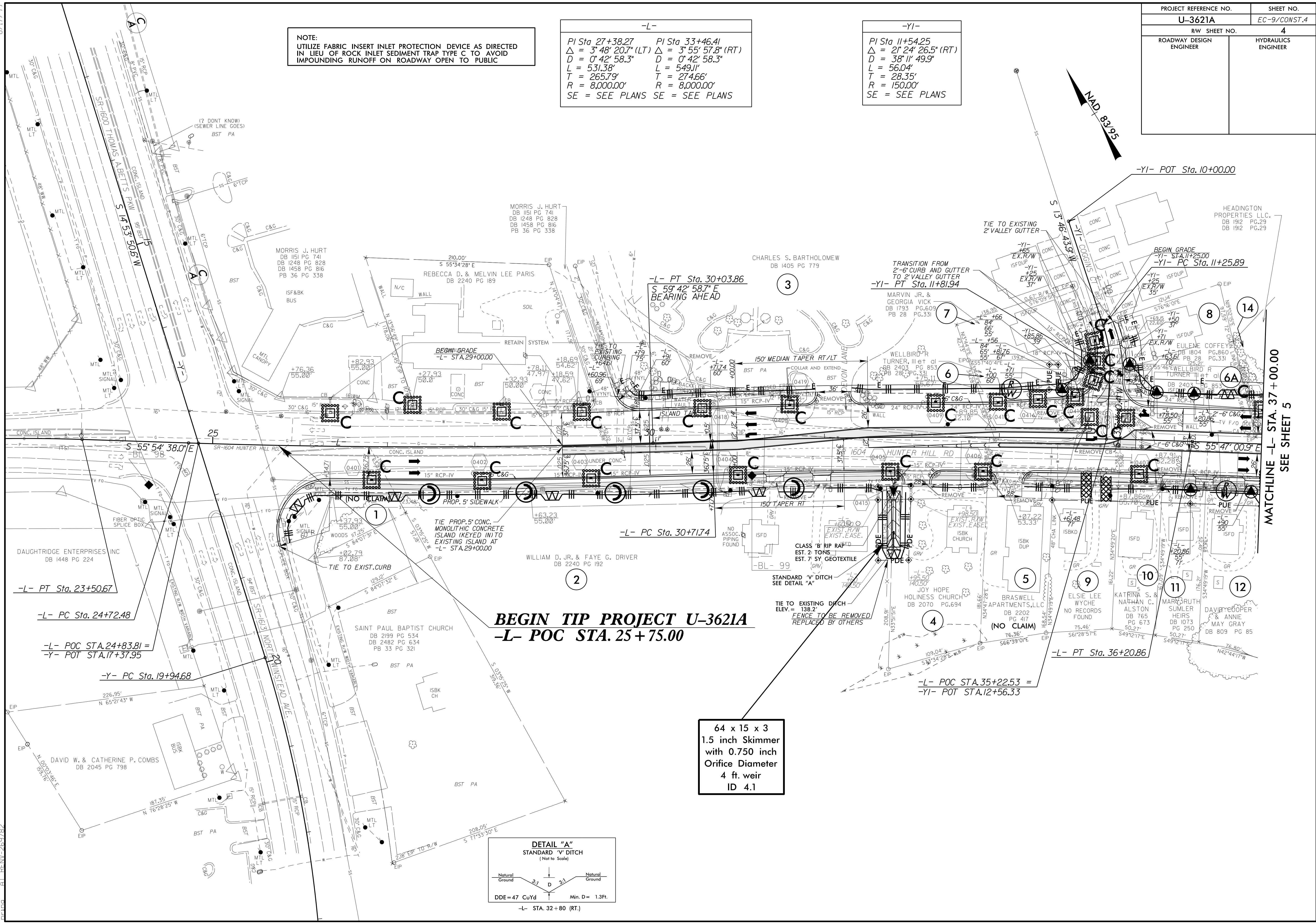
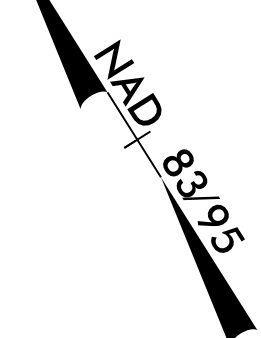


PROJECT REFERENCE NO.	SHEET NO.
U-3621A	EC-9/CONST.4
RW SHEET NO.	4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED
IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO AVOID
IMPOUNDING RUNOFF ON ROADWAY OPEN TO PUBLIC

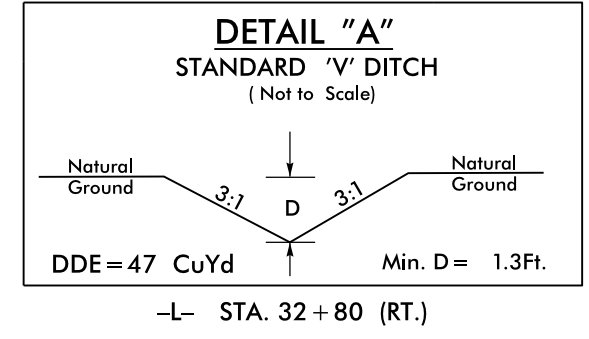
-L-
PI Sta. 27+38.27 PI Sta. 33+46.41
Δ = 3° 48' 20.7" (LT) Δ = 3° 55' 57.8" (RT)
D = 0' 42' 58.3" D = 0' 42' 58.3"
L = 531.38' L = 549.11'
T = 265.79' T = 274.66'
R = 8,000.00' R = 8,000.00'
SE = SEE PLANS SE = SEE PLANS

-YI-
PI Sta. 11+54.25
Δ = 21° 24' 26.5" (RT)
D = 38' 11' 49.9"
L = 56.04'
T = 28.35'
R = 150.00'
SE = SEE PLANS



BEGIN TIP PROJECT U-3621A
-L- POC STA. 25+75.00

64 x 15 x 3
1.5 inch Skimmer
with 0.750 inch
Orifice Diameter
4 ft. weir
ID 4.1

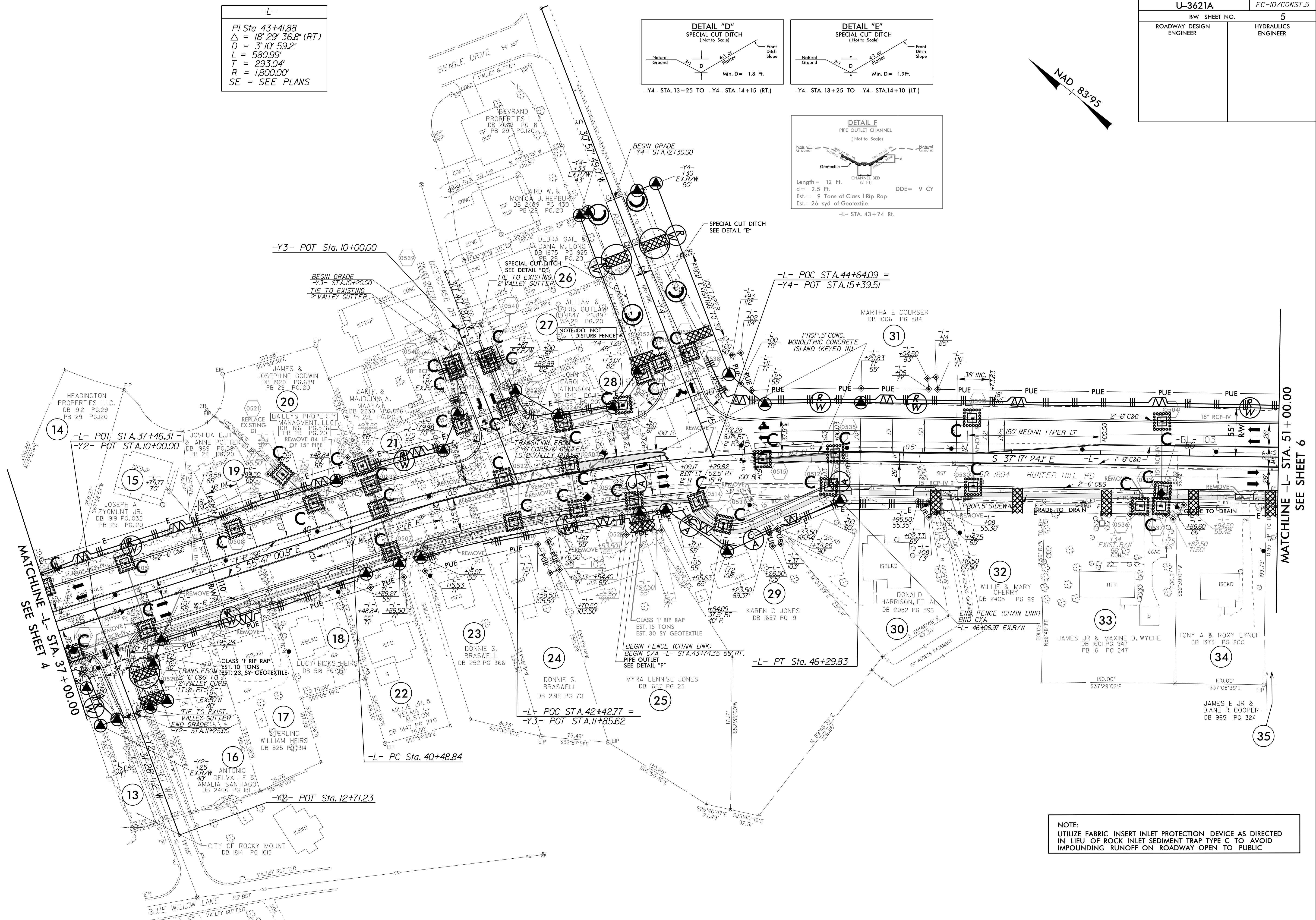
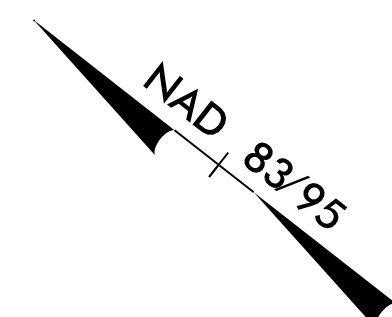
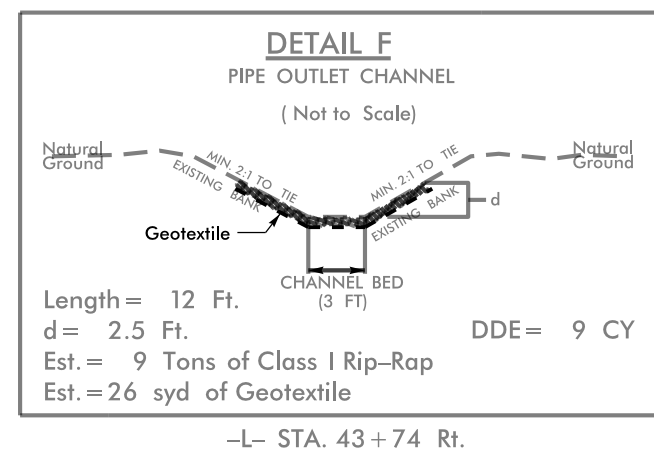
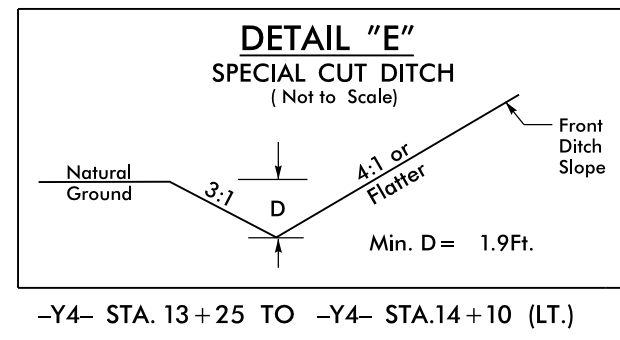
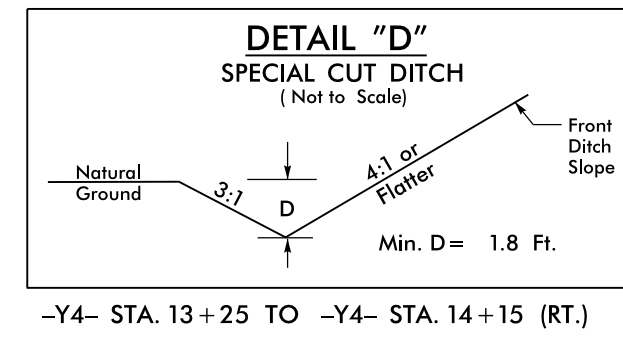


MATCHLINE -L- STA. 37+00.00
SEE SHEET 5

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PROJECT REFERENCE NO.	SHEET NO.
U-3621A	EC-10/CONST.5
R/W SHEET NO.	5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L-
 PI Sta 43+41.88
 $\Delta = 18' 29' 36.8" (RT)$
 $D = 3' 10' 59.2"$
 $L = 580.99'$
 $T = 293.04'$
 $R = 1,800.00'$
 SE = SEE PLANS



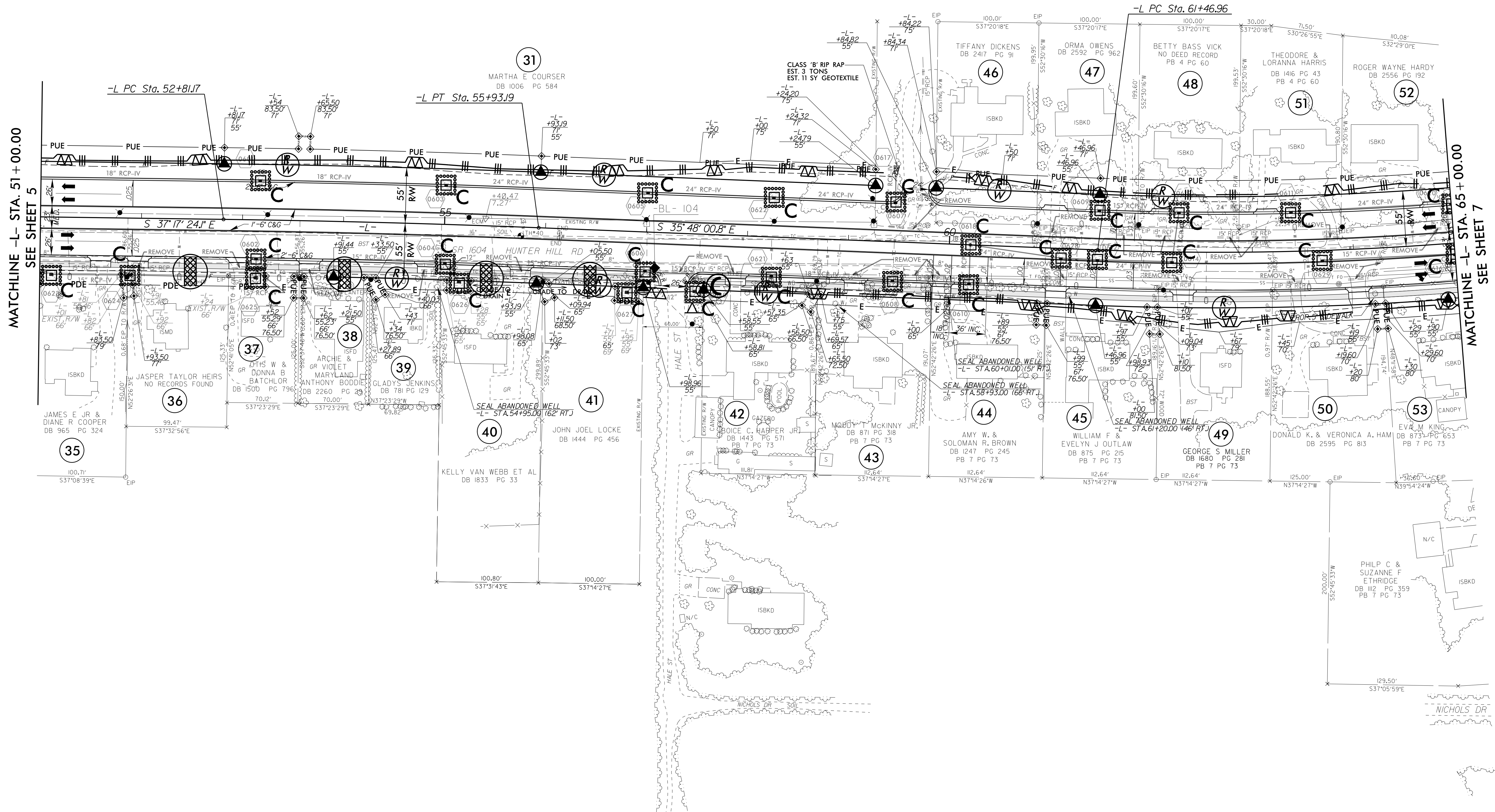
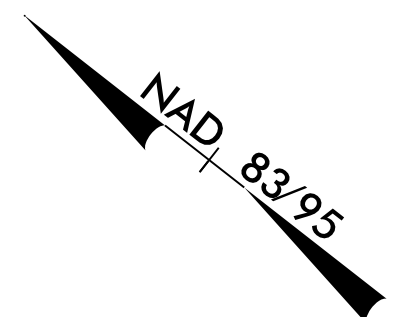
NOTE:
 UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED
 IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO AVOID
 IMPOUNDING RUNOFF ON ROADWAY OPEN TO PUBLIC

8.17.99
 FEB-2017 11:03
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 AT:BNV 263782

PROJECT REFERENCE NO.	SHEET NO.
U-3621A	EC-II/CONST.6
RW SHEET NO.	6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L-	
PI Sta 54+37.19	PI Sta 66+10.12
$\Delta = 1^{\circ} 29' 23.3" (RT)$	$\Delta = 1^{\circ} 33' 09.6" (LT)$
$D = 0^{\circ} 28' 38.9"$	$D = 1^{\circ} 54' 35.5"$
$L = 312.02'$	$L = 919.06'$
$T = 156.02'$	$T = 463.16'$
$R = 12,000.00'$	$R = 3,000.00'$
SE = SEE PLANS	SE = SEE PLANS

NOTE:
 UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED
 IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO AVOID
 IMPOUNDING RUNOFF ON ROADWAY OPEN TO PUBLIC



MATCHLINE -L- STA. 51+00.00
SEE SHEET 5

MATCHLINE -L- STA. 65+00.00
SEE SHEET 7

8.17.7.99
 21-FEB-2017 11:09
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 AT:BNV-263782

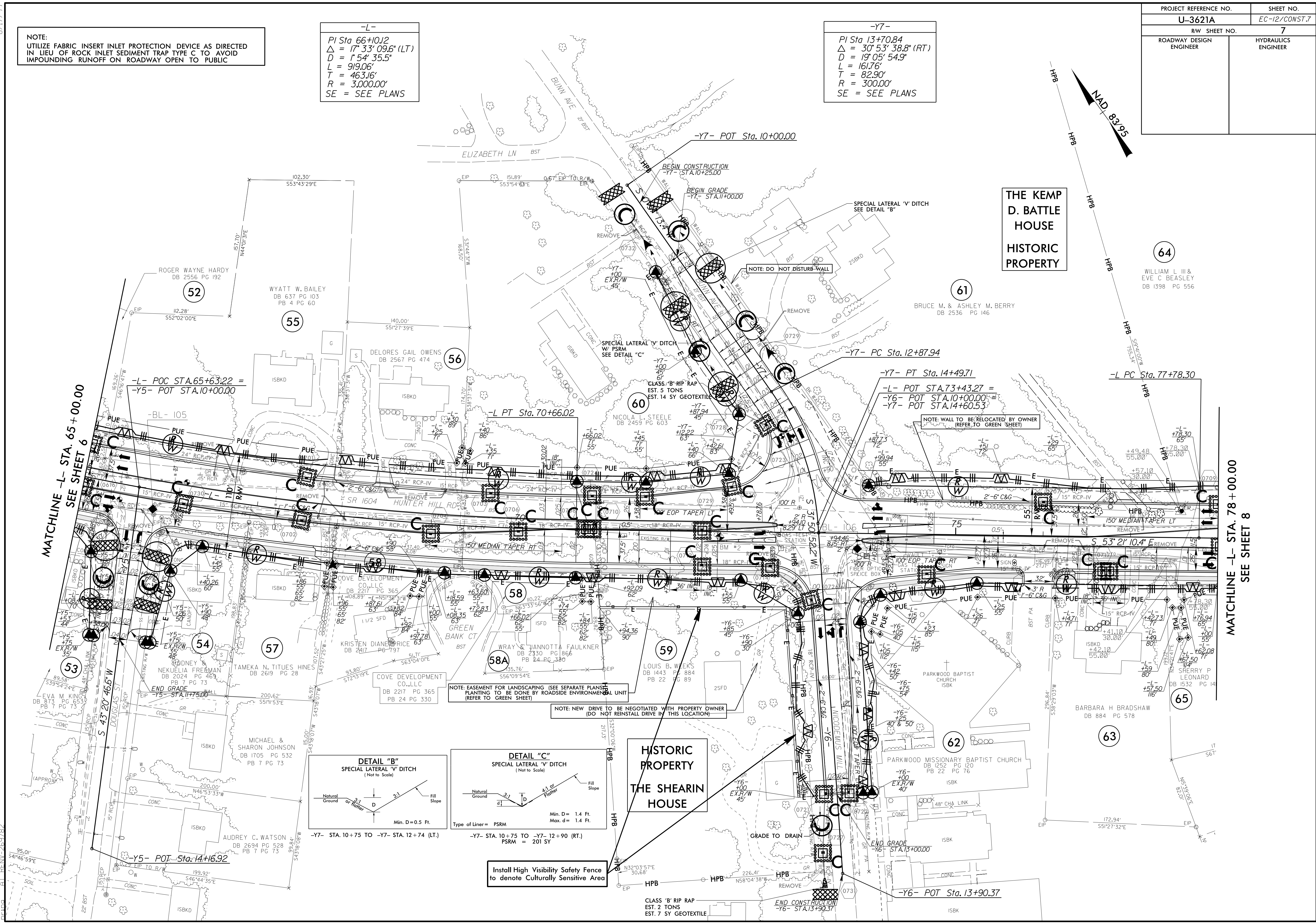
PROJECT REFERENCE NO.	SHEET NO.
U-3621A	EC-12/CONST.7
R/W SHEET NO.	7
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED
IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO AVOID
IMPOUNDING RUNOFF ON ROADWAY OPEN TO PUBLIC

-L-
PI Sta 66+10.12
 $\Delta = 17^{\circ} 33' 09.6"$ (LT)
D = 1' 54' 35.5"
L = 919.06'
T = 463.16'
R = 3,000.00'
SE = SEE PLANS

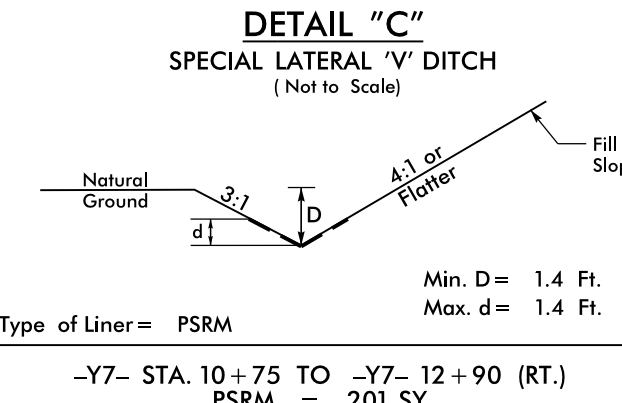
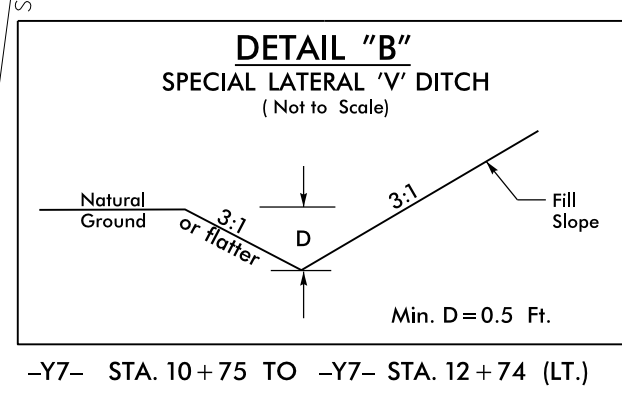
-Y7-
PI Sta 13+70.84
 $\Delta = 30^{\circ} 53' 38.8"$ (RT)
D = 19' 05' 54.9"
L = 161.76'
T = 82.90'
R = 300.00'
SE = SEE PLANS

8.17.99
FEB-2017 11:09
R:\Projects\U-3621A\Drawings\U-3621A-EC-12-Const.7.dgn
PLD



THE KEMP
D. BATTLE
HOUSE
HISTORIC
PROPERTY

HISTORIC
PROPERTY
THE SHEARIN
HOUSE



Install High Visibility Safety Fence to denote Culturally Sensitive Area

MATCHLINE -L- STA. 65+00.00
SEE SHEET 6

MATCHLINE -L- STA. 78+00.00
SEE SHEET 8

