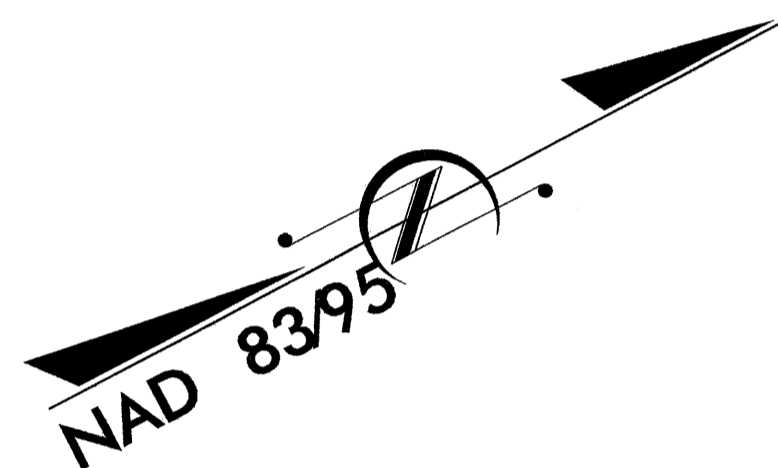


TIP PROJECT: U-2803

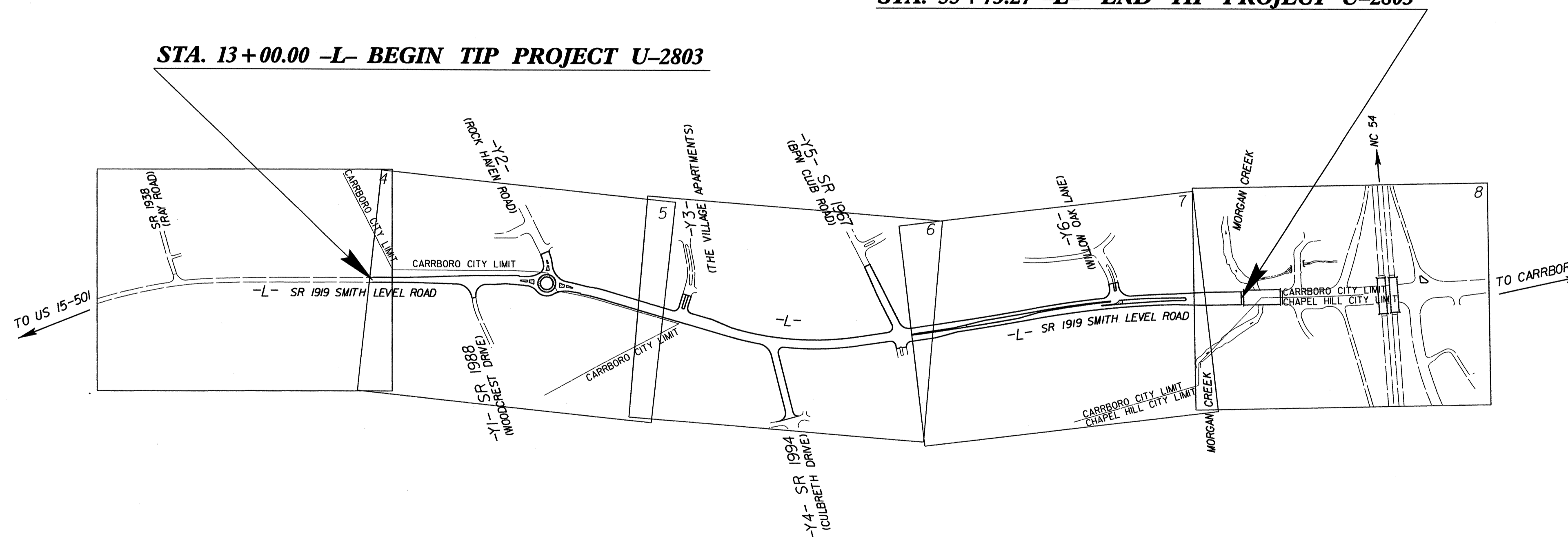
STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
 PLAN FOR PROPOSED
 HIGHWAY EROSION CONTROL
ORANGE COUNTY

**LOCATION: CARRBORO - SR 1919 (SMITH LEVEL ROAD)
 FROM HAVEN ROAD TO BRIDGE NO. 88
 OVER MORGAN CREEK**
**TYPE OF WORK: WIDENING, DRAINAGE, GRADING, PAVING, SIGNALS
 AND CURB & GUTTER**



STA. 55+73.27 -L- END TIP PROJECT U-2803

STA. 13+00.00 -L- BEGIN TIP PROJECT U-2803



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-2803	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

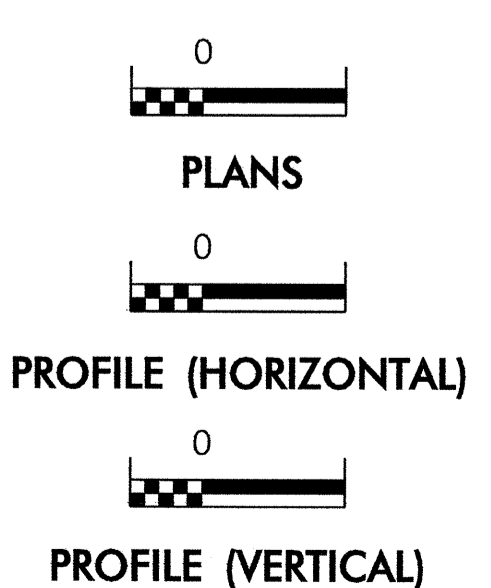
Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	▲▲▲▲▲
1622.01	Temporary Berms and Slope Drains	▲▲▲▲▲
1630.02	Silt Basin Type B	▨
1633.01	Temporary Rock Silt Check Type-A	▨
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	▨
1633.02	Temporary Rock Silt Check Type-B	▨
	Wattle / Coir Fiber Wattle	W
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	W
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	U
1635.02	Rock Pipe Inlet Sediment Trap Type-B	U
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.**

**ENVIRONMENTALLY
 SENSITIVE AREA(S) EXIST
 ON THIS PROJECT**
*Refer To E. C. Special Provisions
 for Special Considerations.*

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 3, 2011
 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

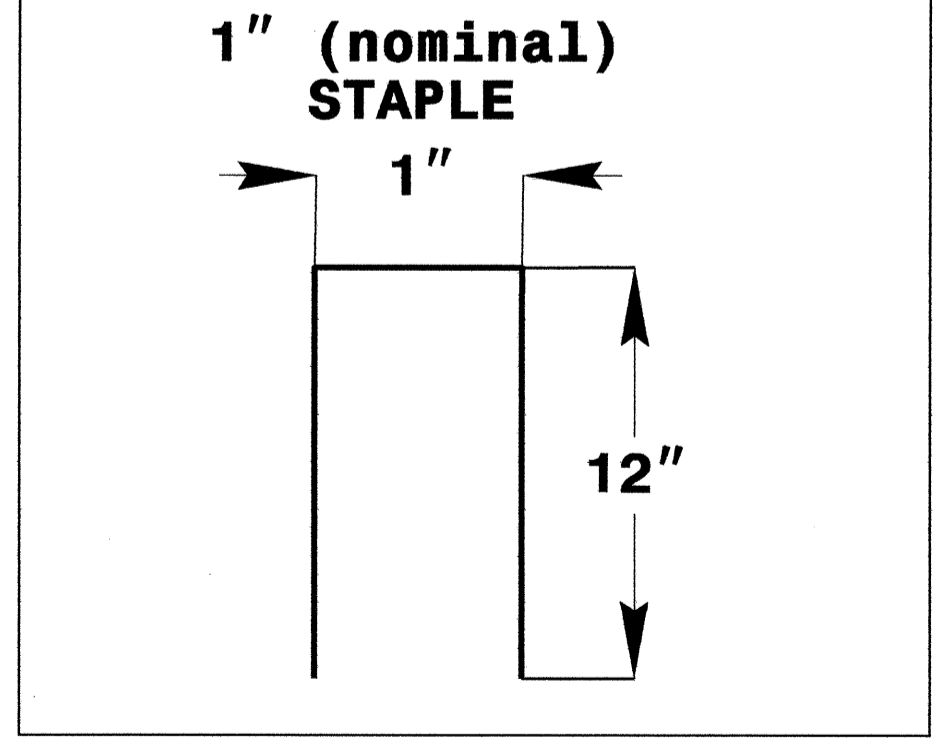
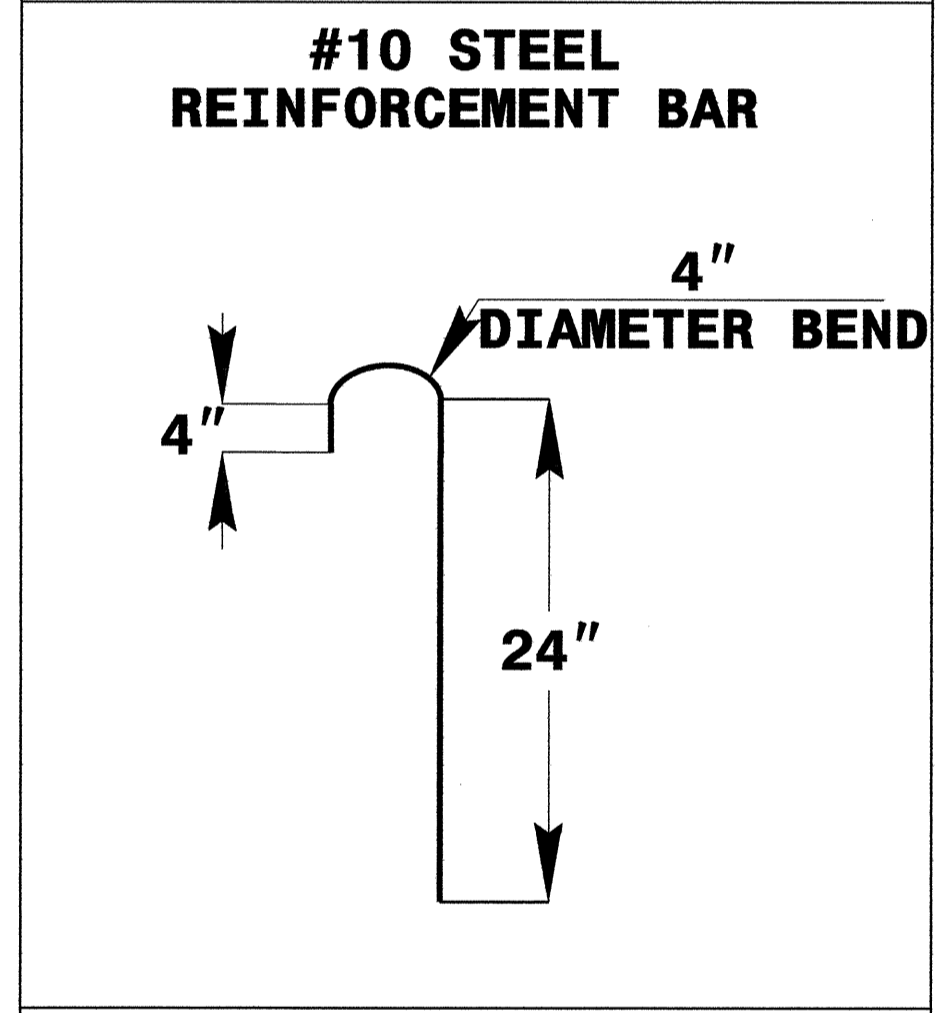
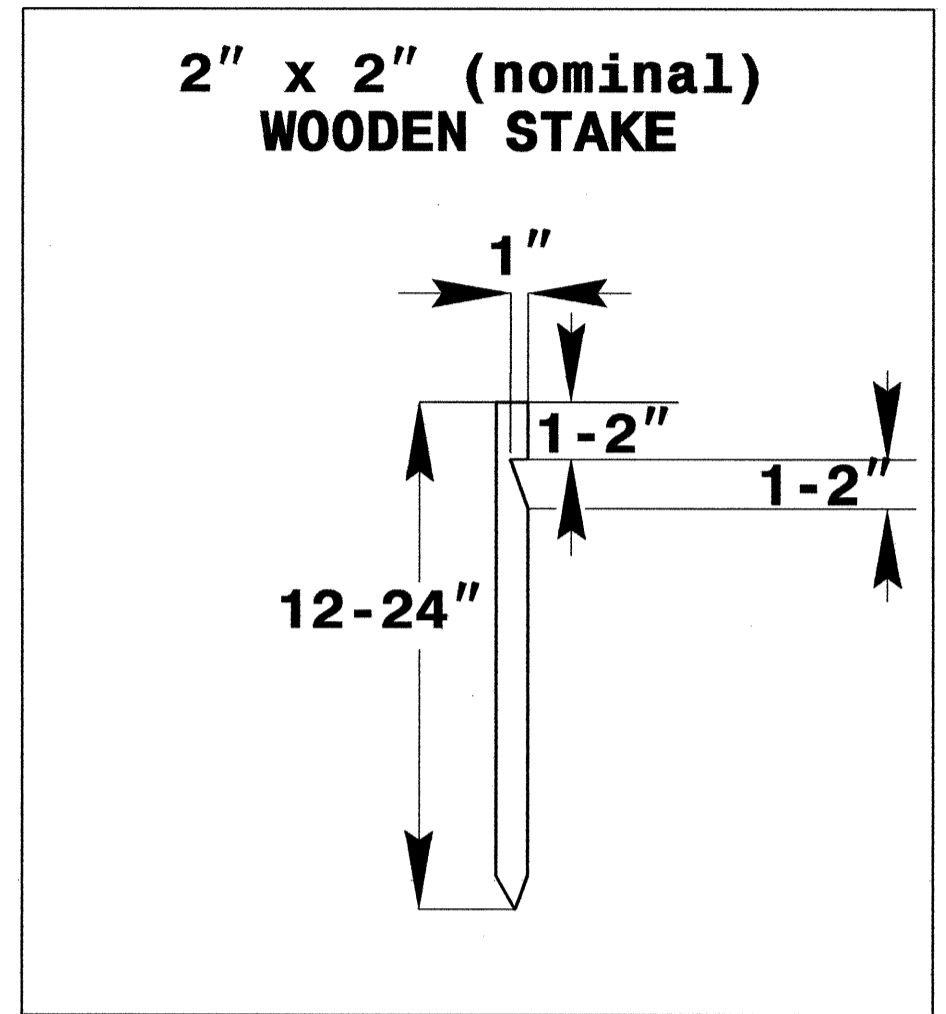
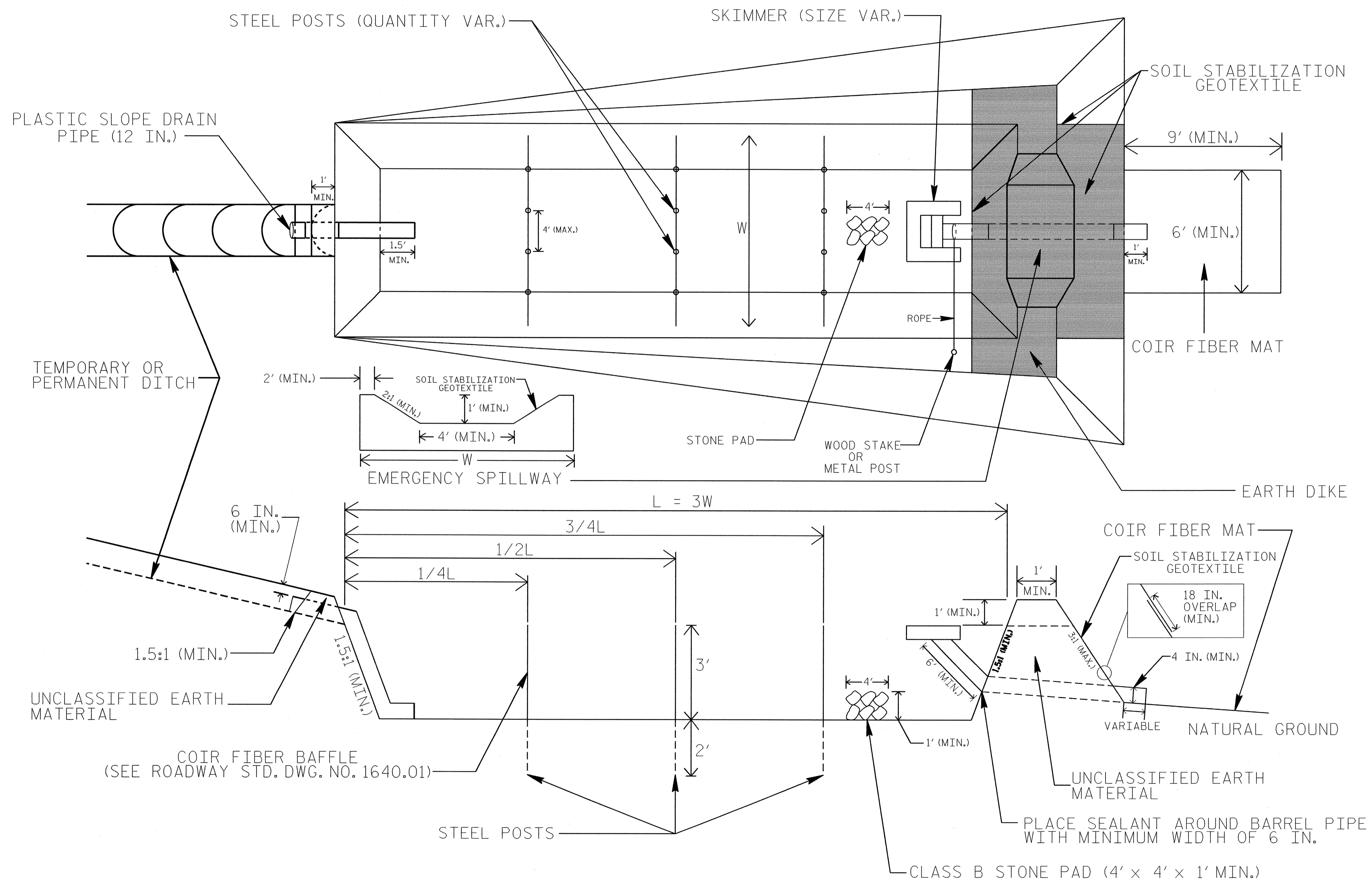
Roadway Standard Drawings

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	1633.02 Temporary Rock Silt Check Type B
1630.02 Silt Basin Type B	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 Baffle
1631.01 Matting Installation	1645.01 Temporary Stream Crossing

PROJECT REFERENCE NO. U-2803	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SKIMMER BASIN WITH BAFFLES DETAIL



COIR FIBER MAT ANCHOR OPTIONS

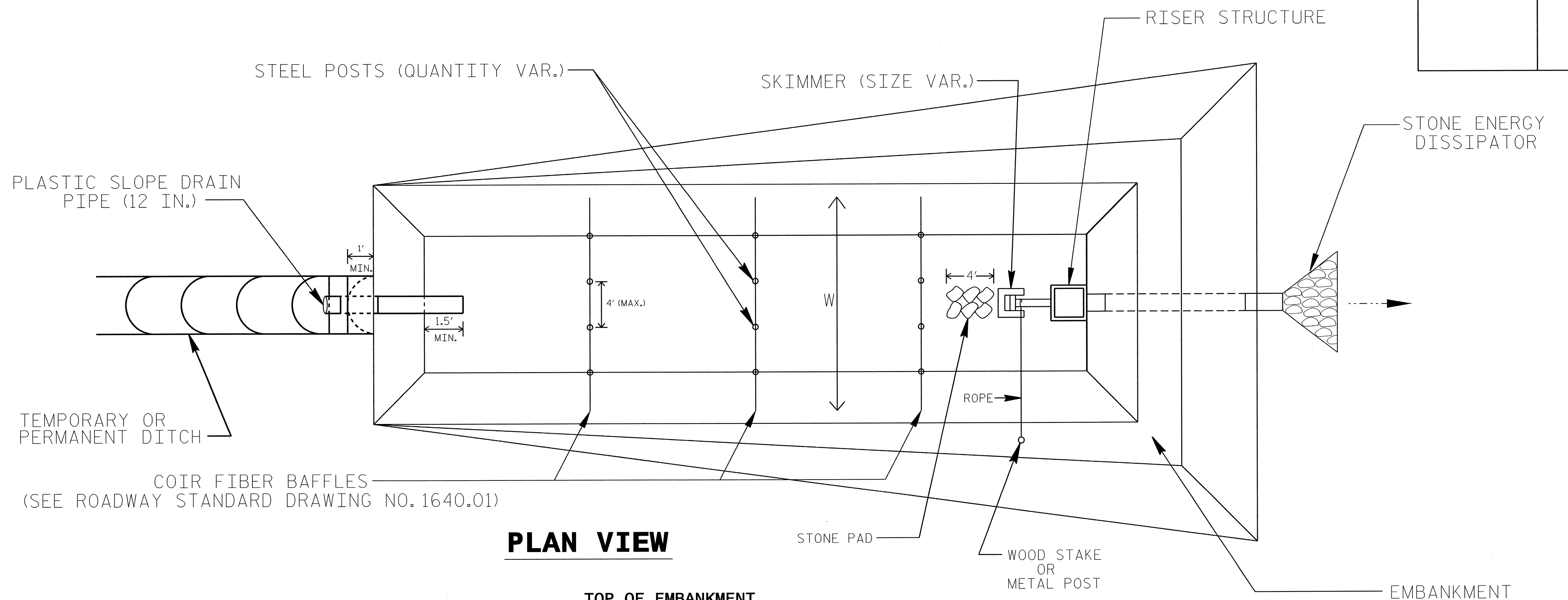
NOTES

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 EMERGENCY 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. SOIL STABILIZATION GEOTEXTILE FOR EMERGENCY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

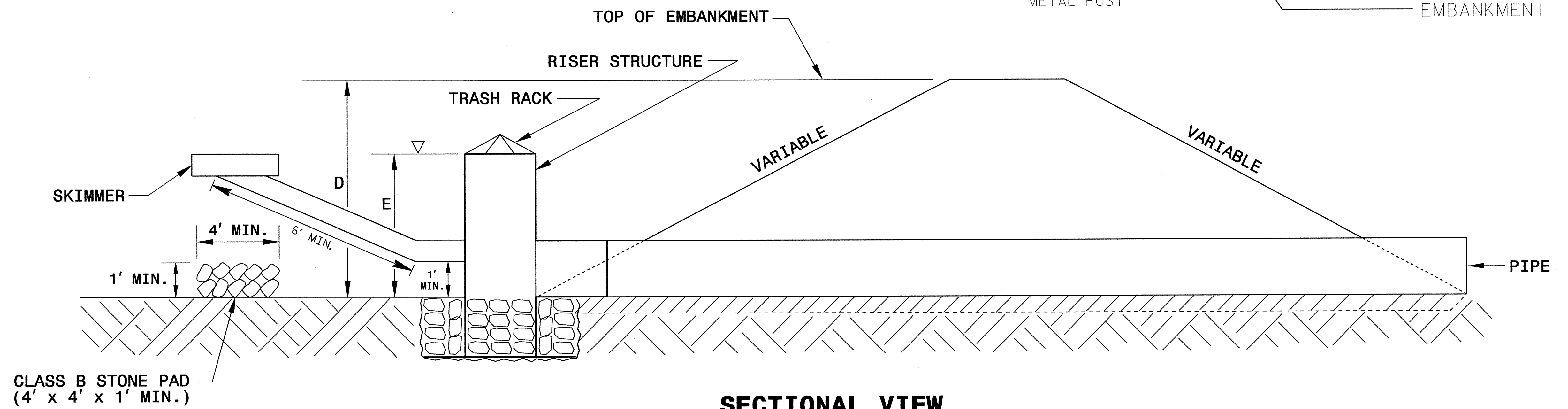
NOT TO SCALE

PROJECT REFERENCE NO. U-2803	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

STORMWATER BASIN WITH SKIMMER



PLAN VIEW



SECTIONAL VIEW

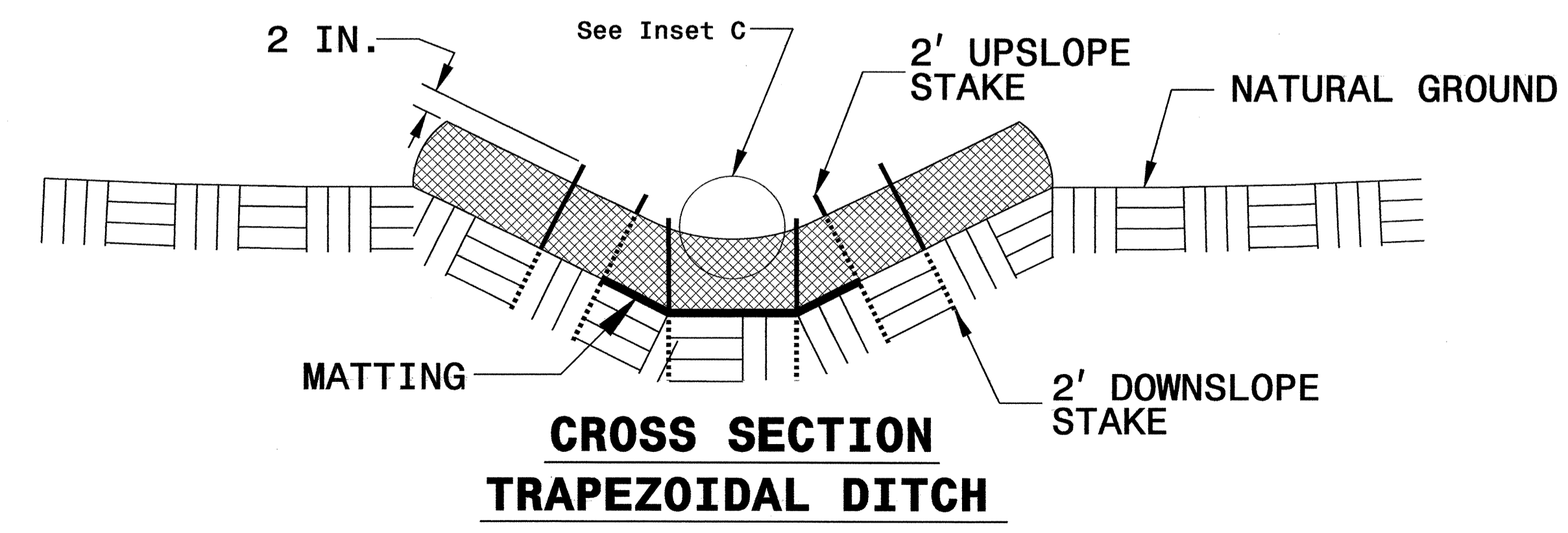
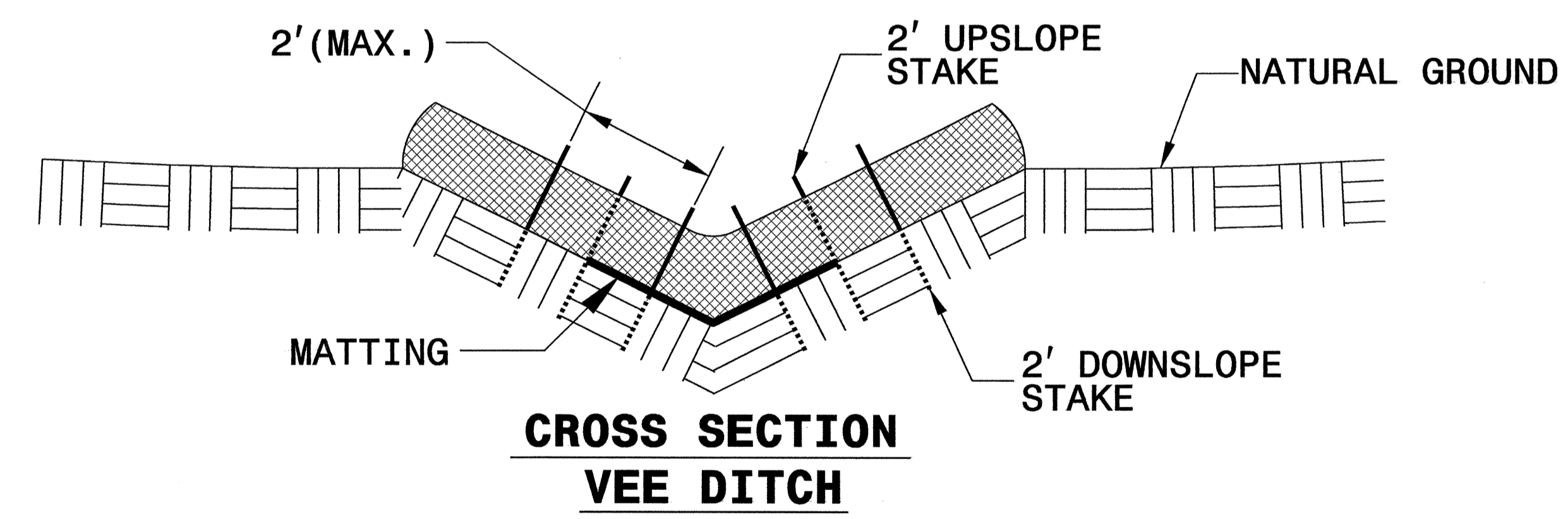
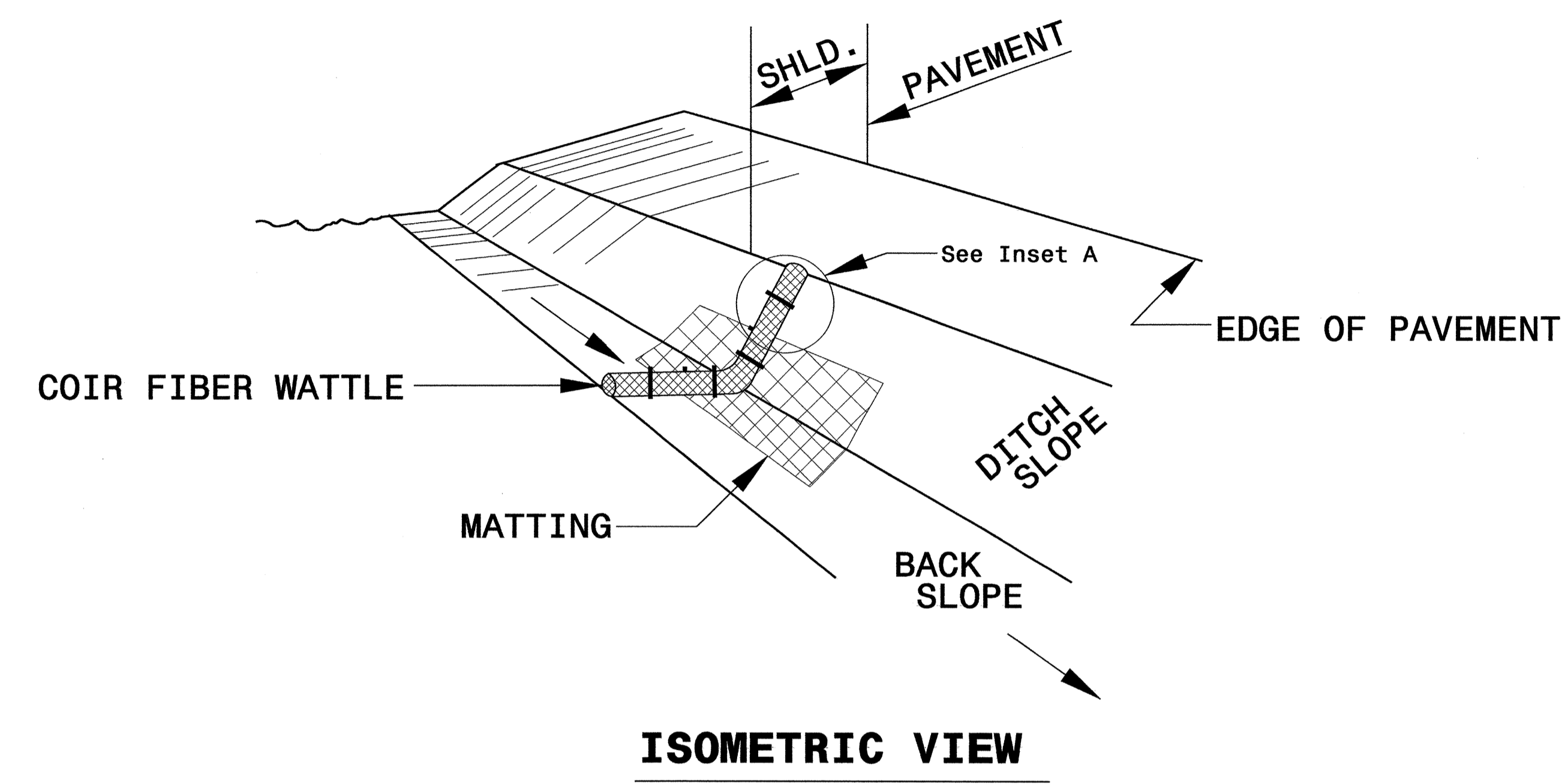
NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
2. INSTALL A MINIMUM OF 3 COIR FIBER BAFFLES IN ACCORDANCE WITH ROADWAY STD. DRAWING 1640.01.
3. INSTALL SKIMMER AND COUPLING TO RISER STRUCTURE OR DIRECTLY INTO EMBANKMENT 1 FT. FROM BOTTOM OF BASIN.
4. THE ARM PIPE SHALL HAVE A MINIMUM LENGTH OF 6 FT. BETWEEN THE SKIMMER AND COUPLING.
5. PLASTIC SLOPE DRAIN PIPE AT INLET OF BASIN MAY BE REPLACED BY FILTRATION GEOTEXTILE AS DIRECTED.
6. THE DIFFERENCE BETWEEN LENGTHS "D" AND "E" REPRESENT THE FREEBOARD AND SHOULD BE 1 FT. MINIMUM.

NOT TO SCALE

PROJECT REFERENCE NO. U-2803	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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.

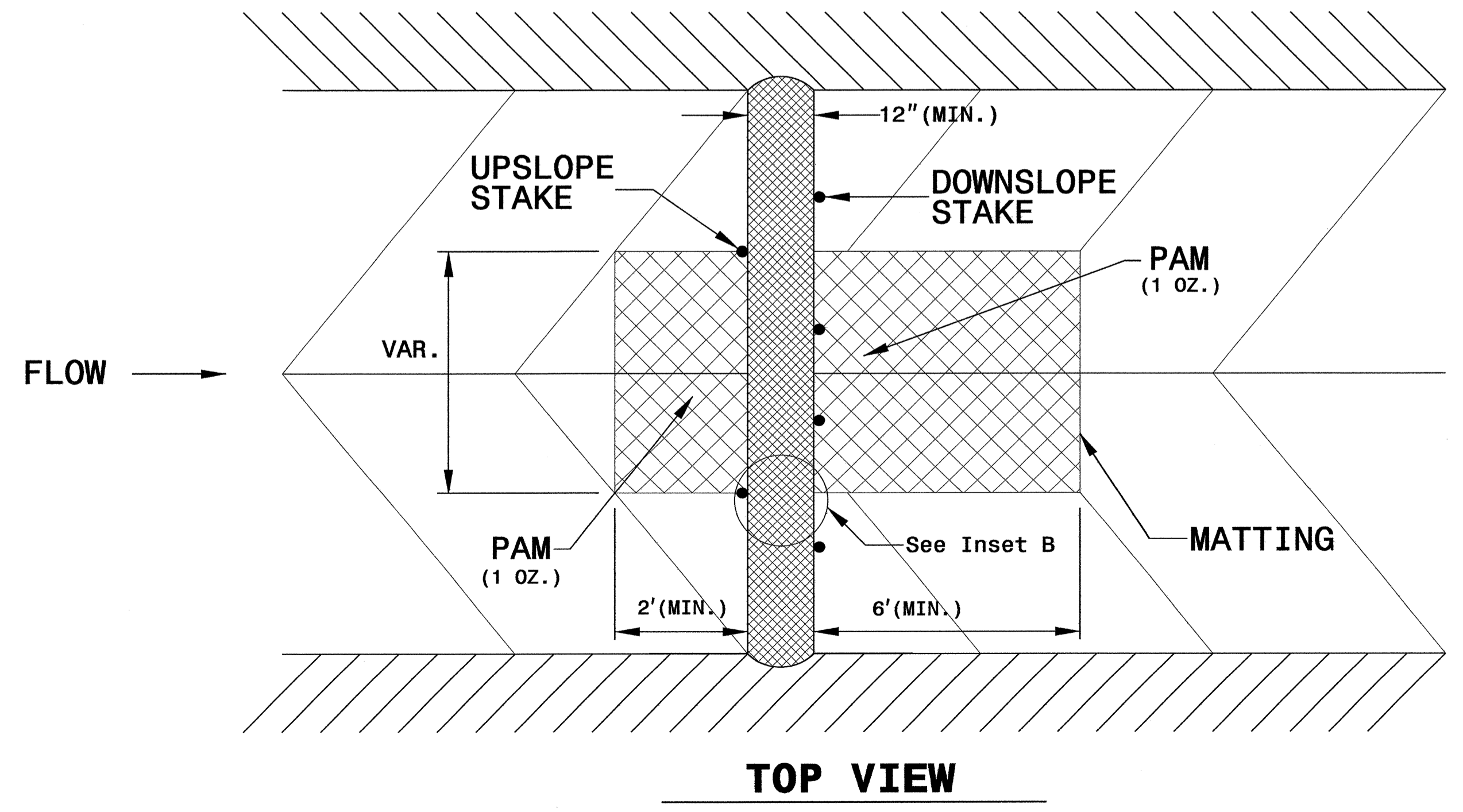
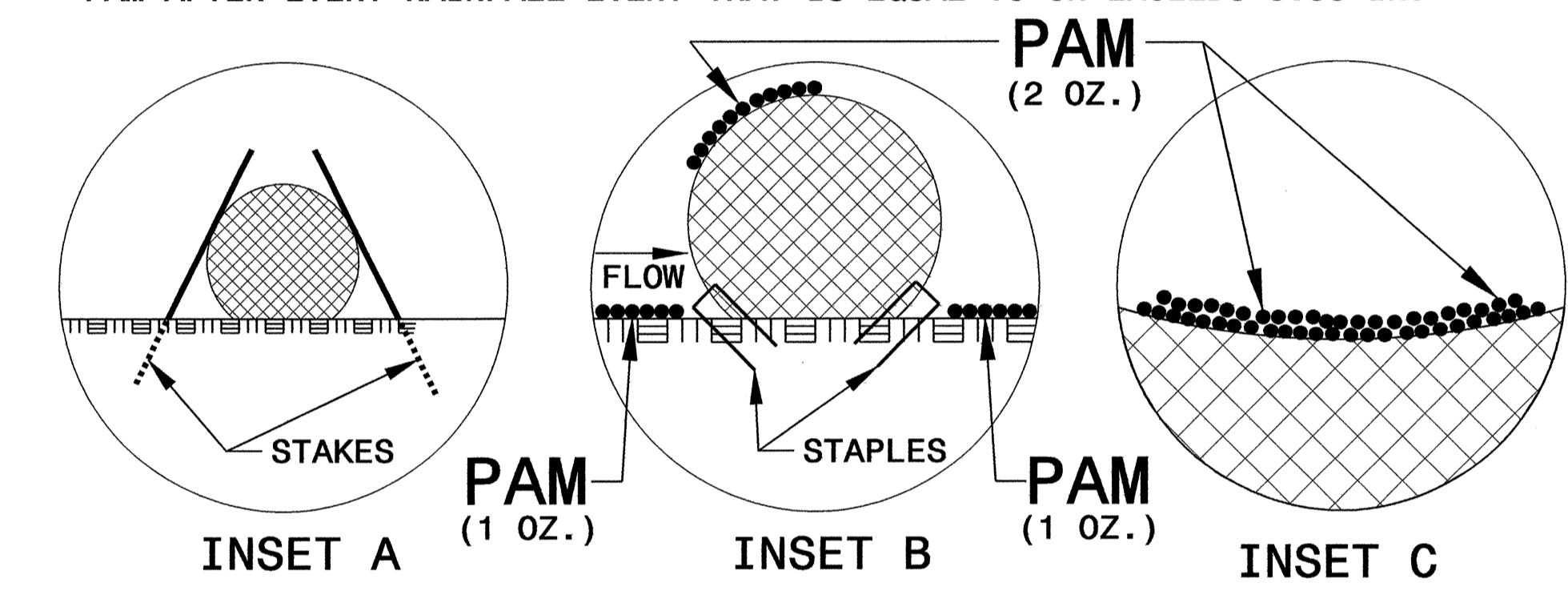
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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.

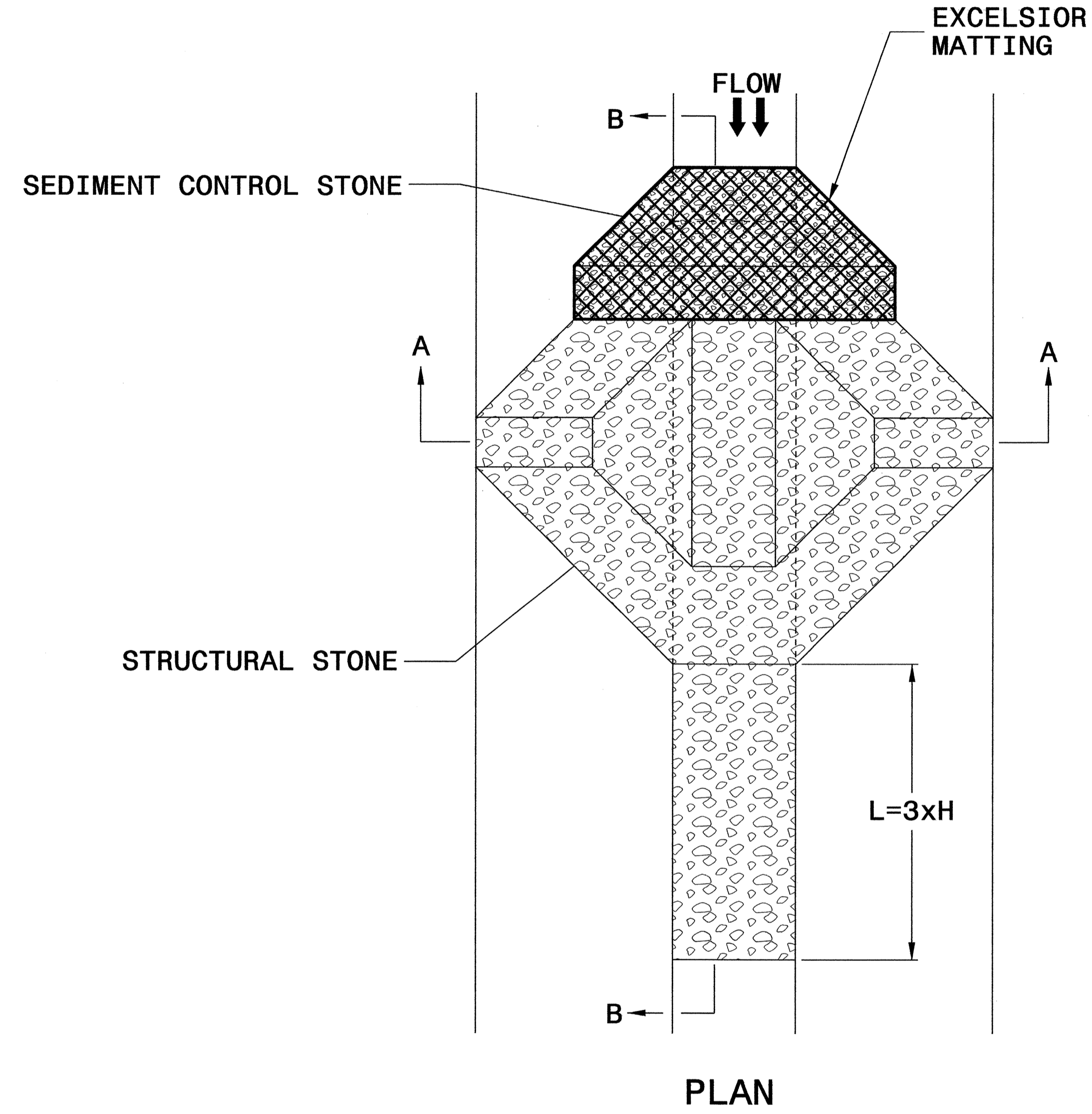
PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

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.



PROJECT REFERENCE NO. U-2803	SHEET NO. EC-2C
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

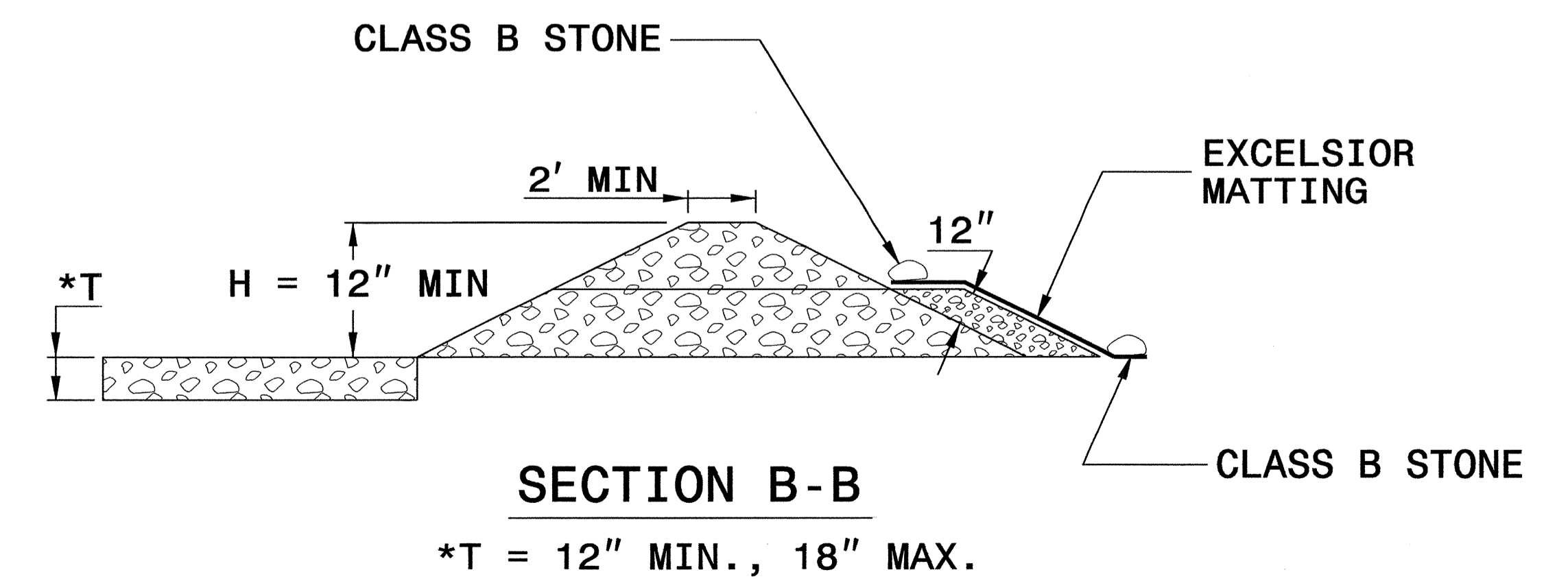
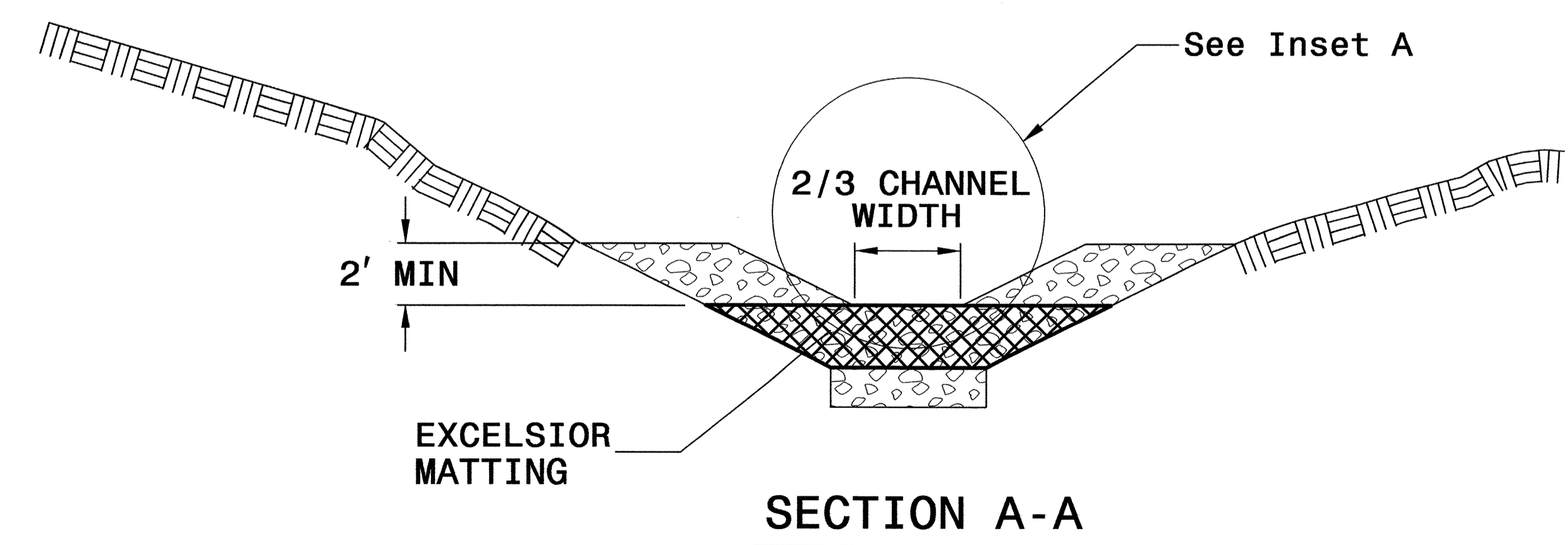
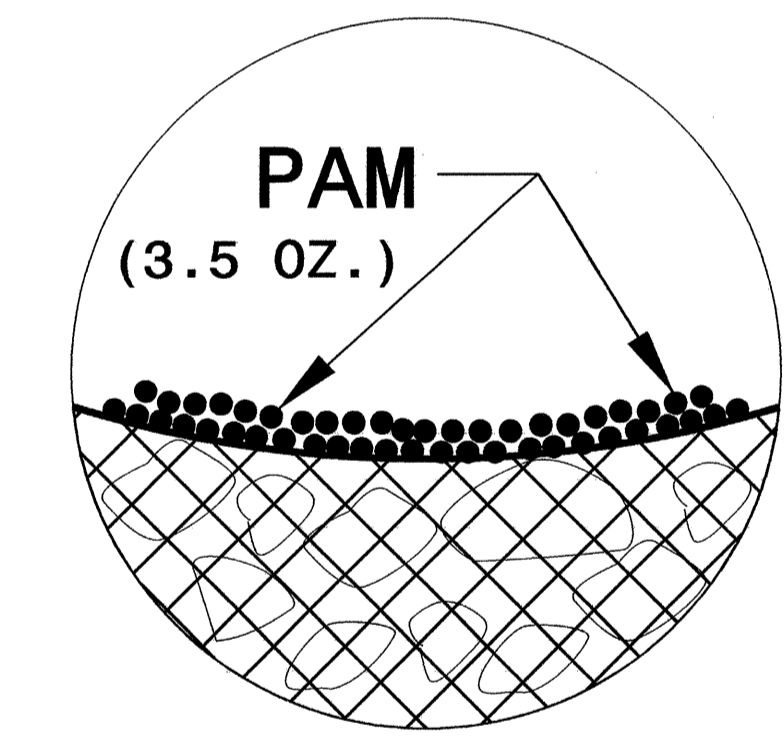


NOTES

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 3.5 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

PROJECT REFERENCE NO. <i>U-2803</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.

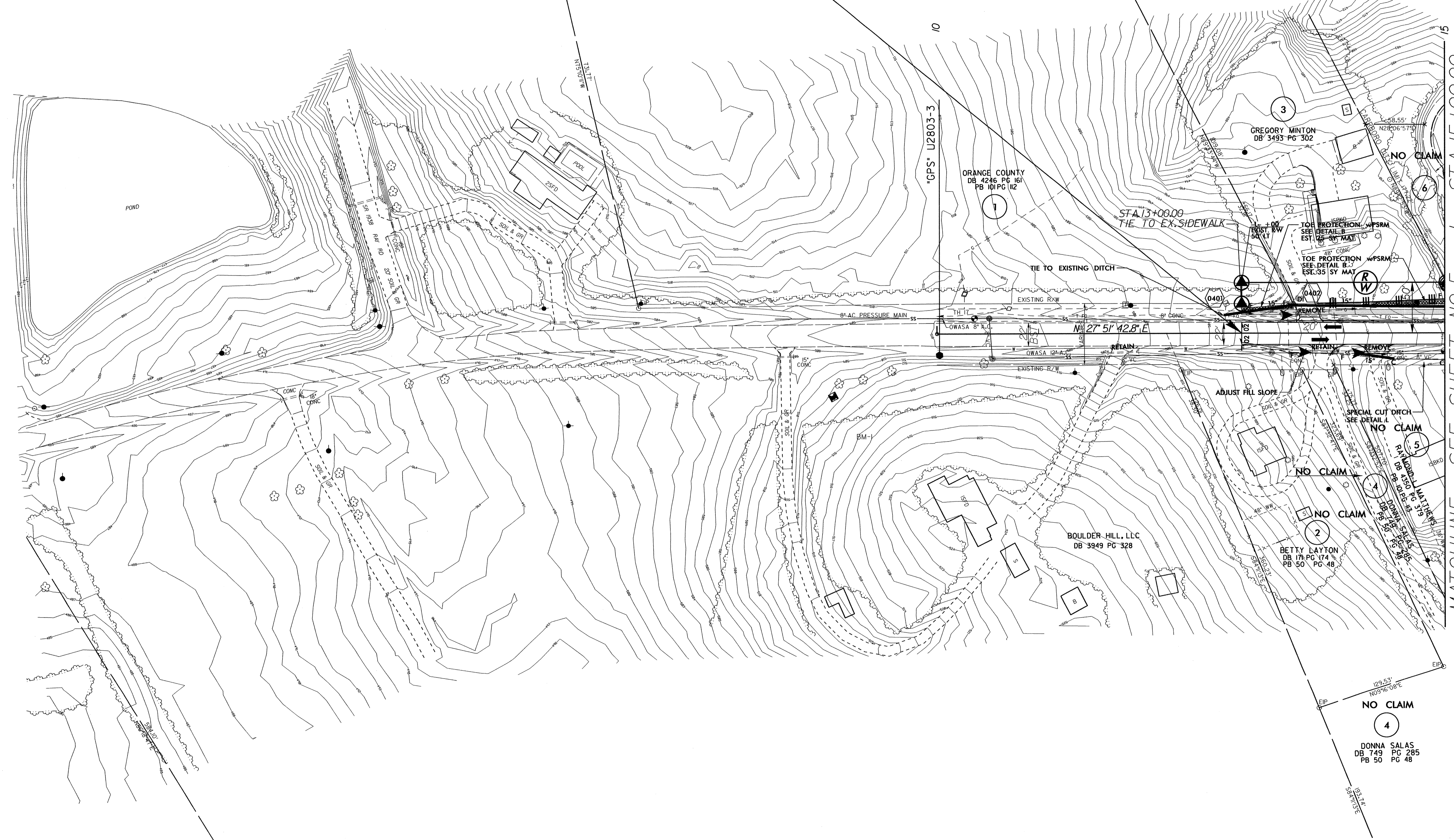
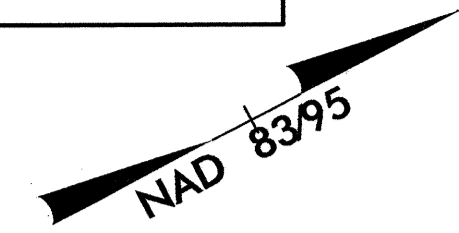
8/17/99

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

PROJECT REFERENCE NO. U-2803	SHEET NO. EC-4/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

STA. 13+00.00 -L- BEGIN TIP PROJECT U-2803



MATCHLINE SEE SHEET NO.5 -L- STA.15+00.00

SEE SHEET 9 FOR -L- PROFILE

31-AUG-2012 07:39
R:\Environmental\Design\U2803-EC-psh4.dgn
micah@ecf.com

PROJECT REFERENCE NO.	SHEET NO.
U-2803	EC-6/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-Y3-
 PI Sta 11+43.20
 $\Delta = 28' 16" 10.4'$ (RT)
 $D = 2' 00" 00.0'$
 $L = 134.62'$
 $T = 68.71'$
 $R = 272.84'$
 SE = SEE PLANS

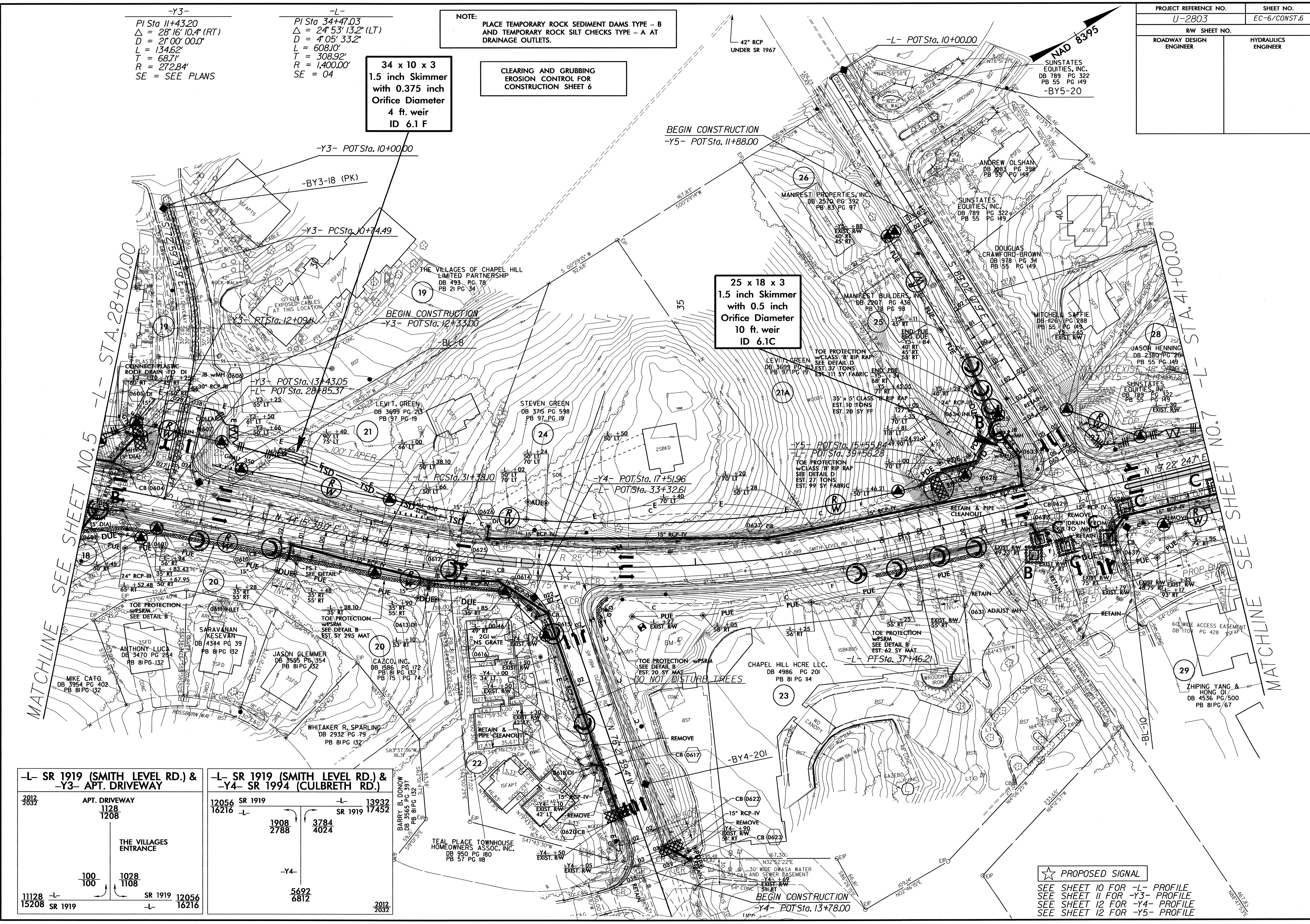
-L-
 PI Sta 34+47.03
 $\Delta = 24' 53" 13.2'$ (LT)
 $D = 4' 05" 33.2'$
 $L = 608.10'$
 $T = 308.92'$
 $R = 1,400.00'$
 SE = 04

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

34 x 10 x 3
 1.5 inch Skimmer
 with 0.375 inch
 Orifice Diameter
 4 ft. weir
 ID 6.1 F

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 6

25 x 18 x 3
 1.5 inch Skimmer
 with 0.5 inch
 Orifice Diameter
 10 ft. weir
 ID 6.1 C



-L- SR 1919 (SMITH LEVEL RD.) & -Y3- APT. DRIVEWAY

2012 2032	APT. DRIVEWAY 1128 1208		
		THE VILLAGES ENTRANCE	
11128 15208	-L- SR 1919	100 100	1028 1108
			SR 1919 12056 -L- 16216

-L- SR 1919 (SMITH LEVEL RD.) & -Y4- SR 1994 (CULBRETH RD.)

12056 16216	SR 1919	-L- SR 1919	13932 17452
	1908 2788		3784 4024
		-Y4-	5692 6812
			2012 2032

★ PROPOSED SIGNAL
 SEE SHEET 10 FOR -L- PROFILE
 SEE SHEET 11 FOR -Y3- PROFILE
 SEE SHEET 12 FOR -Y4- PROFILE
 SEE SHEET 12 FOR -Y5- PROFILE

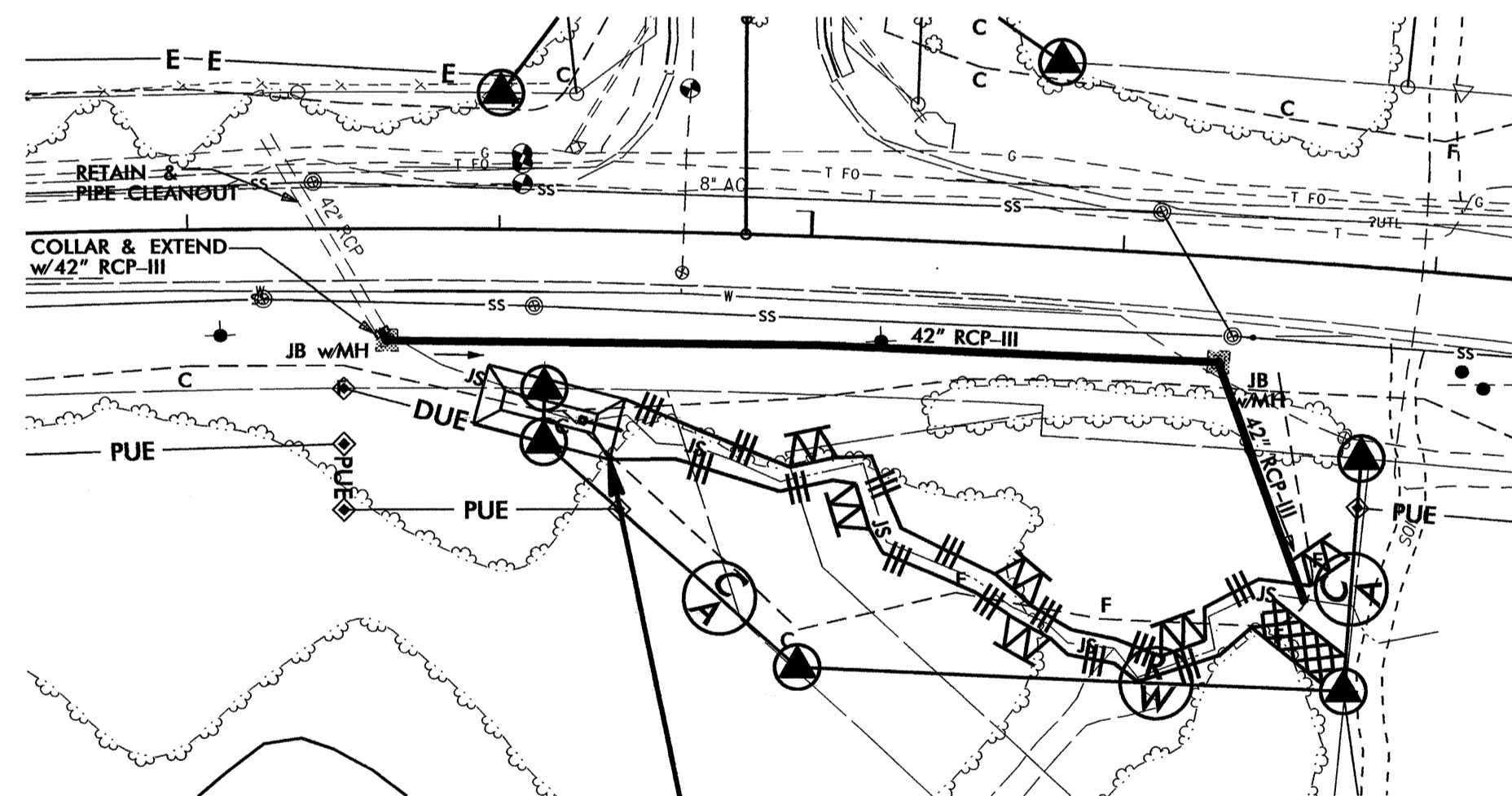
8/17/99
 3-AUG-2012 07:44
 R:\Environmental\Design\2803\EC-pah6.dgn
 R:\Environmental\EC-6\CONST\6.dwg
 11/24/2012 11:27:27

PROJECT REFERENCE NO.	SHEET NO.
U-2803	EC-7/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DRY DETENTION BASIN CONSTRUCTION SEQUENCE STA. 51+00 -L-

PHASE I

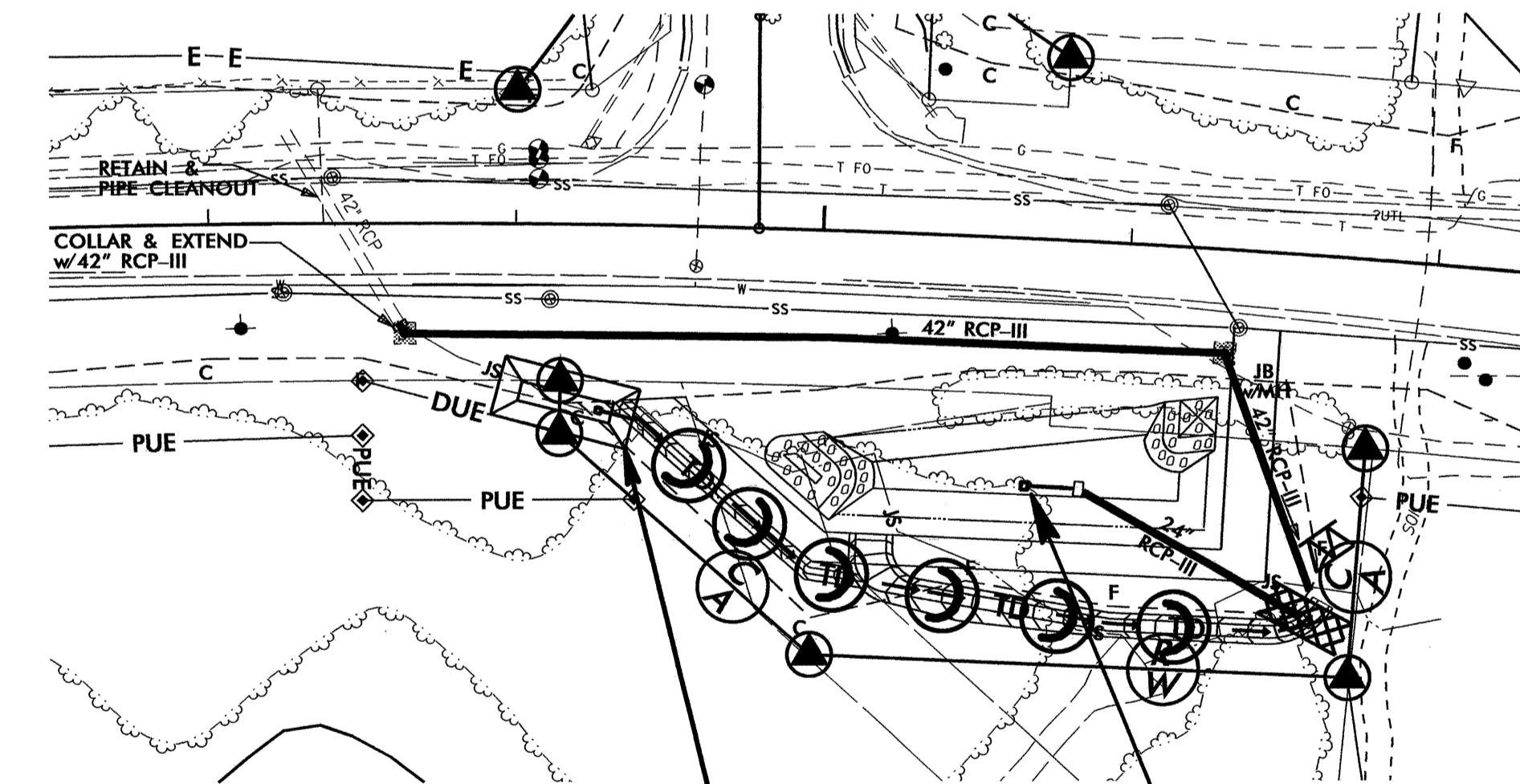
1. INSTALL BASIN 7.1C AND STREAM PERIMETER PROTECTION.
2. CONSTRUCT PROPOSED 42" PIPES AND JUNCTION BOXES.
3. DIVERT STREAM THROUGH 42" PIPES.



45 x 20 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
12 ft. weir
ID 7.1C

PHASE II

1. CONSTRUCT TEMPORARY DIVERSION WITH EC DEVICES.
2. DIVERT RUNOFF FROM BASIN 7.1C INTO TEMPORARY DIVERSION.
3. CONSTRUCT DRY DETENTION BASIN WITH SKIMMER.
4. REMOVE BASIN 7.1C AND DIVERT RUNOFF FROM THE PROJECT THROUGH NEWLY CONSTRUCTED DRY DETENTION BASIN WITH SKIMMER.



45 x 20 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
12 ft. weir
ID 7.1C

1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
ID 7.2C

PROJECT REFERENCE NO.	SHEET NO.
U-2803	EC-8/CONST.7
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

-L-
 PI Sta 43+49.30
 $\Delta = 1' 35'' 39.8''$ (LT)
 $D = 0' 31'' 15.1''$
 $L = 306.10'$
 $T = 153.06'$
 $R = 11,000.00'$
 $SE = NC$

PI Sta 49+38.81
 $\Delta = 9' 06'' 03.6''$ (RT)
 $D = 1' 21'' 51.1''$
 $L = 667.14'$
 $T = 334.27'$
 $R = 4,200.00'$
 $SE = 02$

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 7

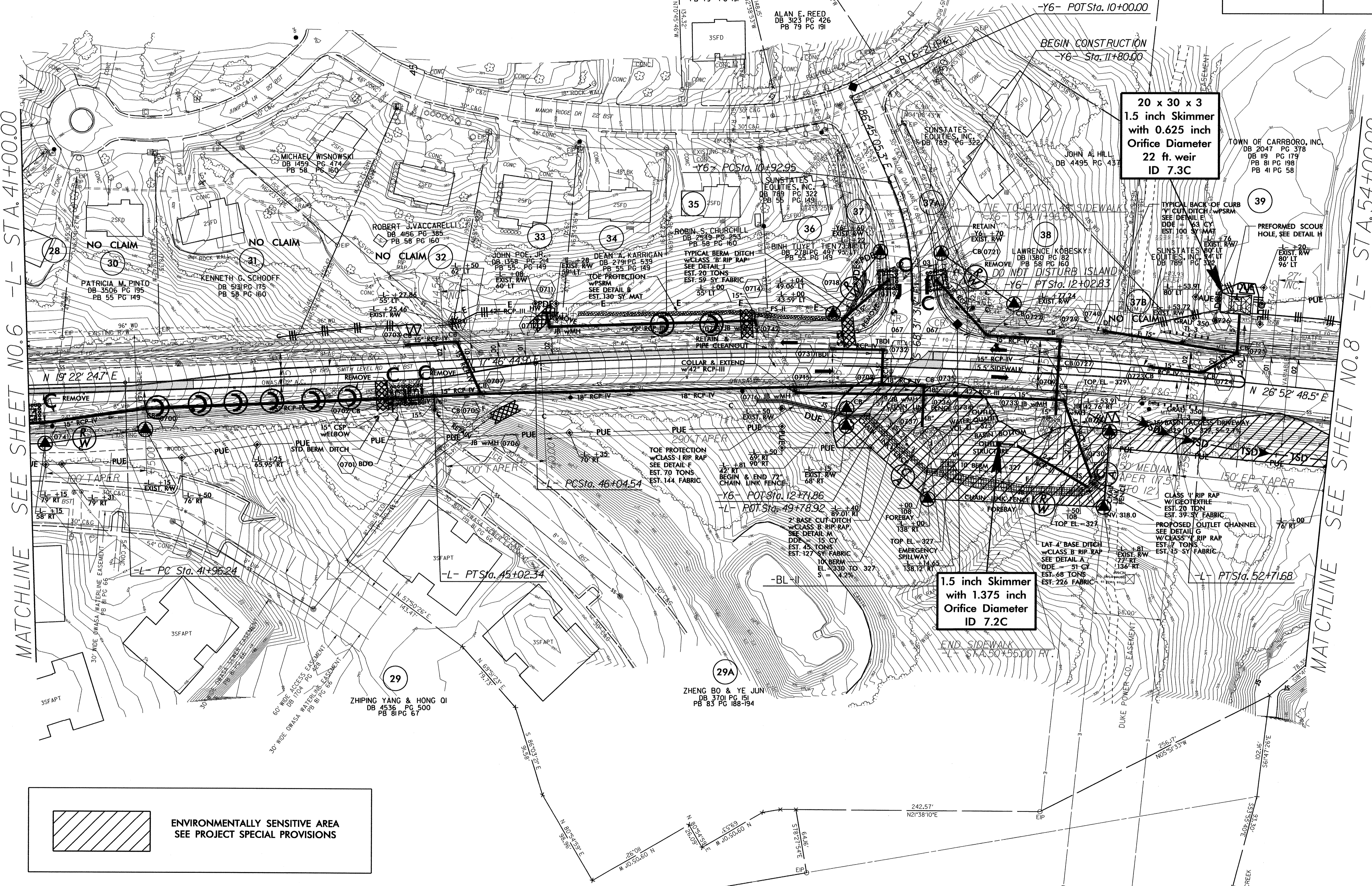
NOTE:
 PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
 AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
 DRAINAGE OUTLETS.

-Y6-
 PI Sta 11+48.76
 $\Delta = 2' 43'' 23.1''$ (RT)
 $D = 22' 30'' 00.0''$
 $L = 109.88'$
 $T = 55.81'$
 $R = 254.65'$
 $SE = SEE PLANS$



MATCHLINE SEE SHEET NO.6 -L- STA.41+00.00

MATCHLINE SEE SHEET NO.8 -L- STA.54+00.00



ENVIRONMENTALLY SENSITIVE AREA
 SEE PROJECT SPECIAL PROVISIONS

SEE SHEET 10 FOR -L- PROFILE
 SEE SHEET 12 FOR -Y6- PROFILE

8/17/99
 04 SEP 2012 07:44
 C:\Users\mmerrett\Documents\2803-EC.psh.7.dgn
 C:\Users\mmerrett\Documents\2803-EC.psh.7.dgn

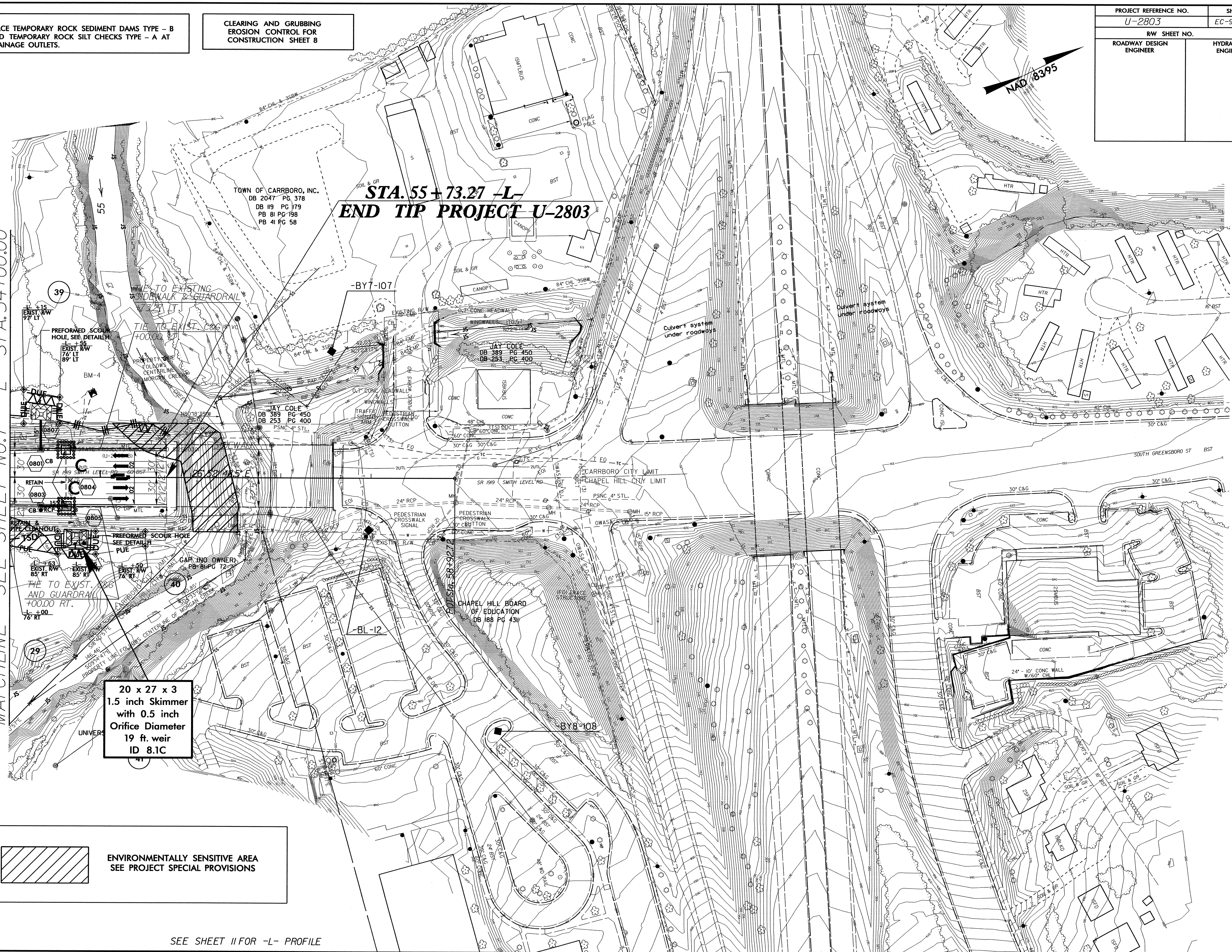
8/17/99
04-SEP-2012 07:42
R:\Environmental\Design\U2803_EC.psh6.dgn
idwalston AT REN247774

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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 8

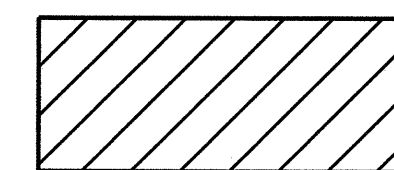
PROJECT REFERENCE NO. U-2803	SHEET NO. EC-9/CONST.8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCHLINE SEE SHEET NO.7 -L- STA.54+00.00



STA. 55 + 73.27 -L-
END TIP PROJECT U-2803

20 x 27 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
19 ft. weir
ID 8.1C

 ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

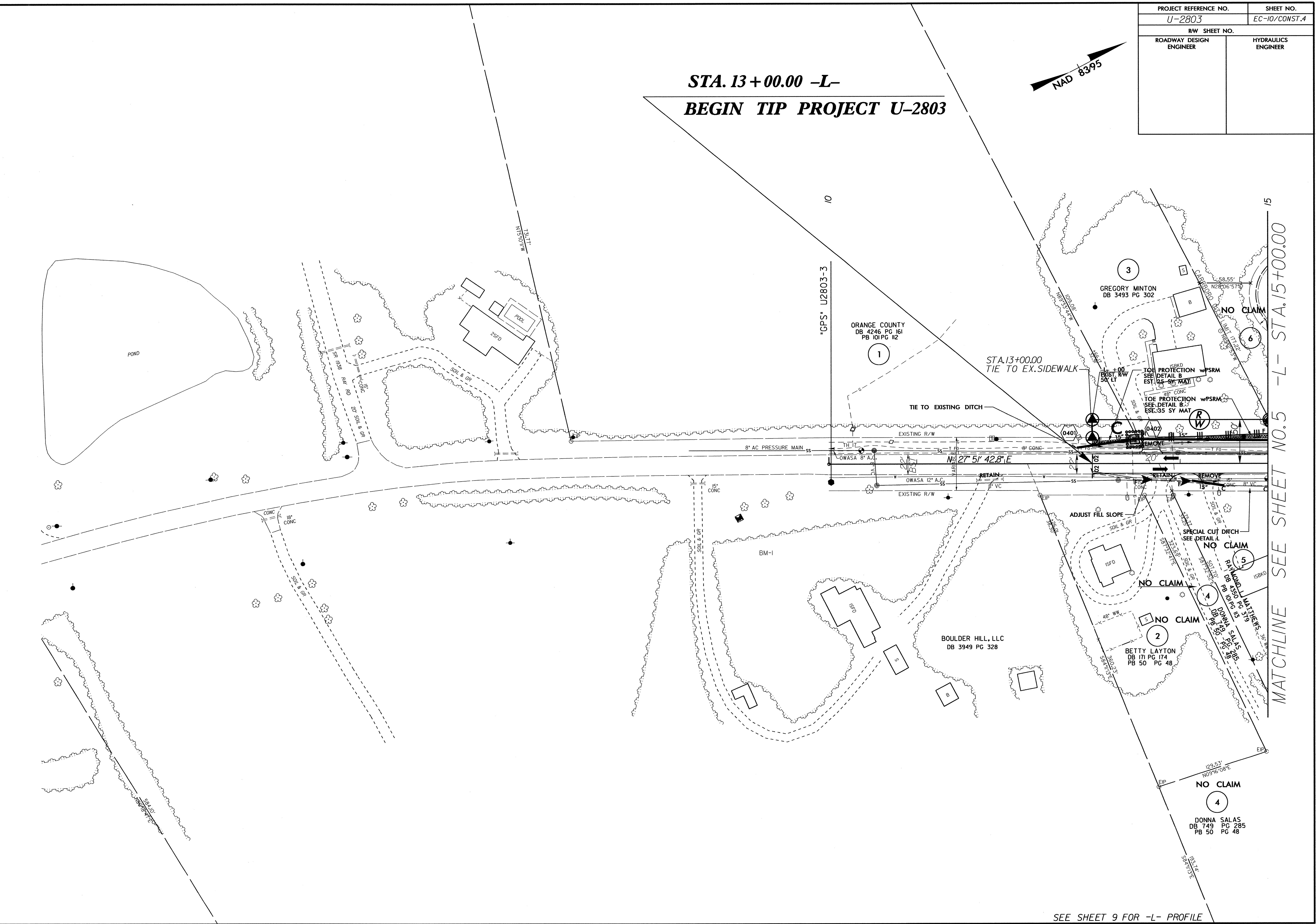
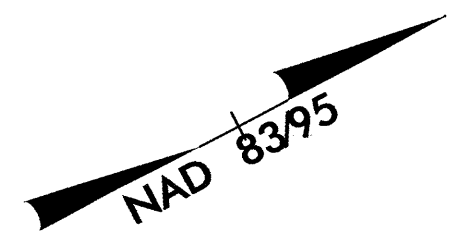
SEE SHEET II FOR -L- PROFILE

8/17/99

PLAUG-2012 07:40
R:\AUG-2012 07:40\Design\2803-EC-ps4.dgn
MICHAEL

PROJECT REFERENCE NO.		SHEET NO.	
U-2803		EC-10/CONST.4	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

STA. 13+00.00 -L-
BEGIN TIP PROJECT U-2803

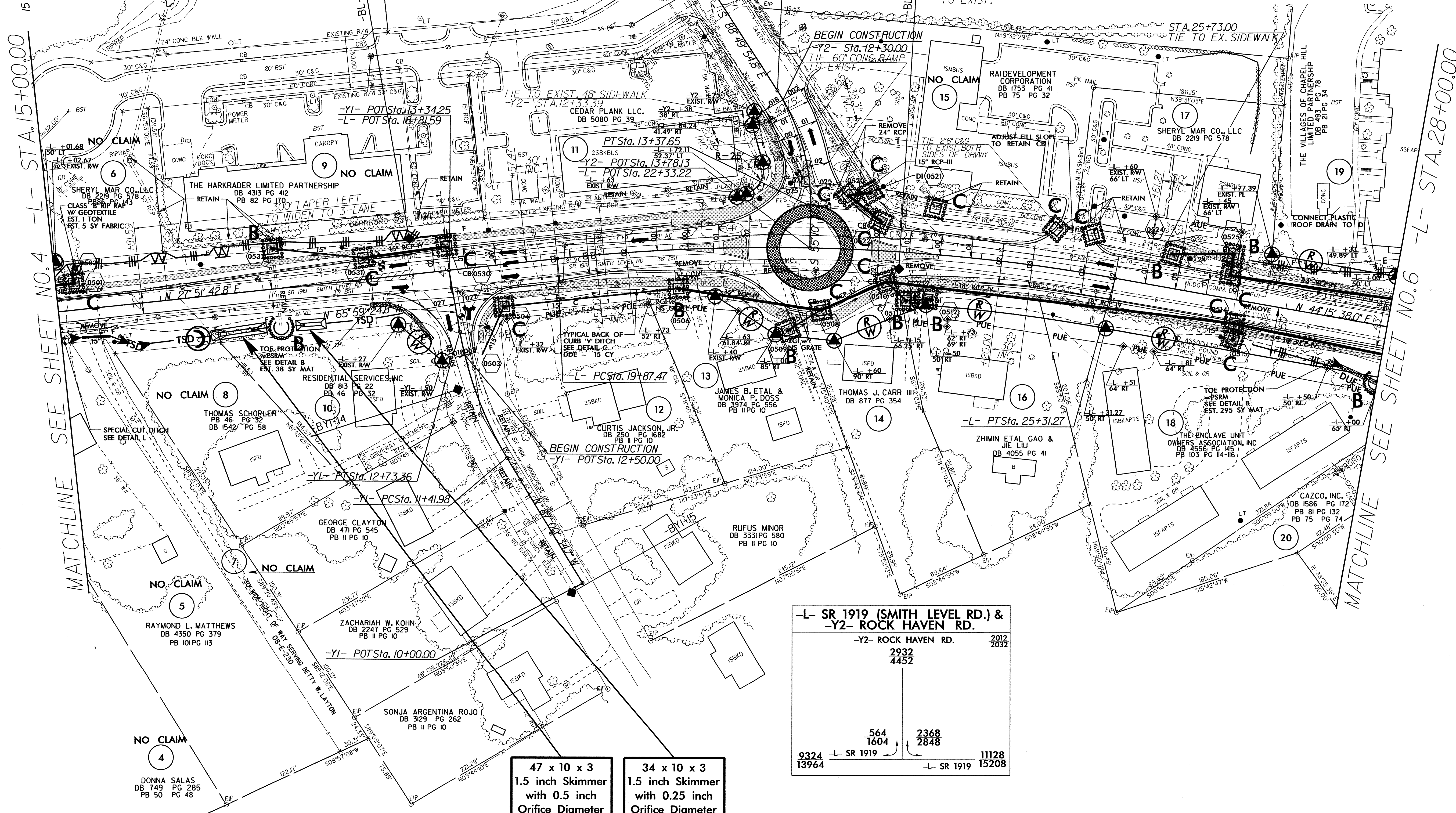
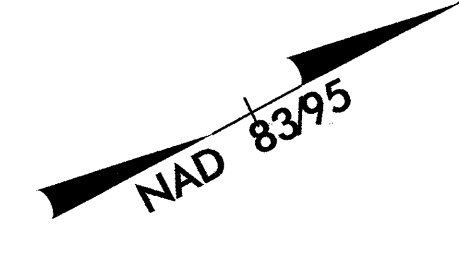


MATCHLINE SEE SHEET NO. 5 -L- STA. 15+00.00

SEE SHEET 9 FOR -L- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
U-2803	EC-II/CONST.5
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

-L-	-Y1-	-Y2-
PI Sta 22+61.24	PI Sta 12+08.42	PI Sta 12+80.36
$\Delta = 16^{\circ} 23' 55.1''$ (RT)	$\Delta = 27^{\circ} 01' 09.9''$ (RT)	$\Delta = 33^{\circ} 39' 18.2''$ (RT)
$D = 3^{\circ} 00' 56.0''$	$D = 16^{\circ} 00' 00.0''$	$D = 28^{\circ} 30' 00.0''$
$L = 543.80'$	$L = 131.37'$	$L = 118.09'$
$T = 273.77'$	$T = 66.43'$	$T = 60.80'$
$R = 1,900.00'$	$R = 358.10'$	$R = 201.04'$
SE = SEE PLANS	SE = SEE PLANS	SE = SEE PLANS



-L- SR 1919 (SMITH LEVEL RD.) & -Y2- ROCK HAVEN RD.	
-Y2- ROCK HAVEN RD.	2012 2032
2932	4452
564	2368
1604	2848
9324	11128
13964	15208

- 47 x 10 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
4 ft. weir
ID 5.1 F
- 34 x 10 x 3
1.5 inch Skimmer
with 0.25 inch
Orifice Diameter
4 ft. weir
ID 5.2 F

SEE SHEET 9 FOR -L- PROFILE
SEE SHEET 11 FOR -Y1- PROFILE
SEE SHEET 11 FOR -Y2- PROFILE

8/17/99
 15
 STA. 15+00.00
 STA. 28+00.00
 MATCHLINE SEE SHEET NO.4
 MATCHLINE SEE SHEET NO.6
 21-AUG-2012 15:26 \\Design\2803-EC.pst5.dgn
 wlabradler

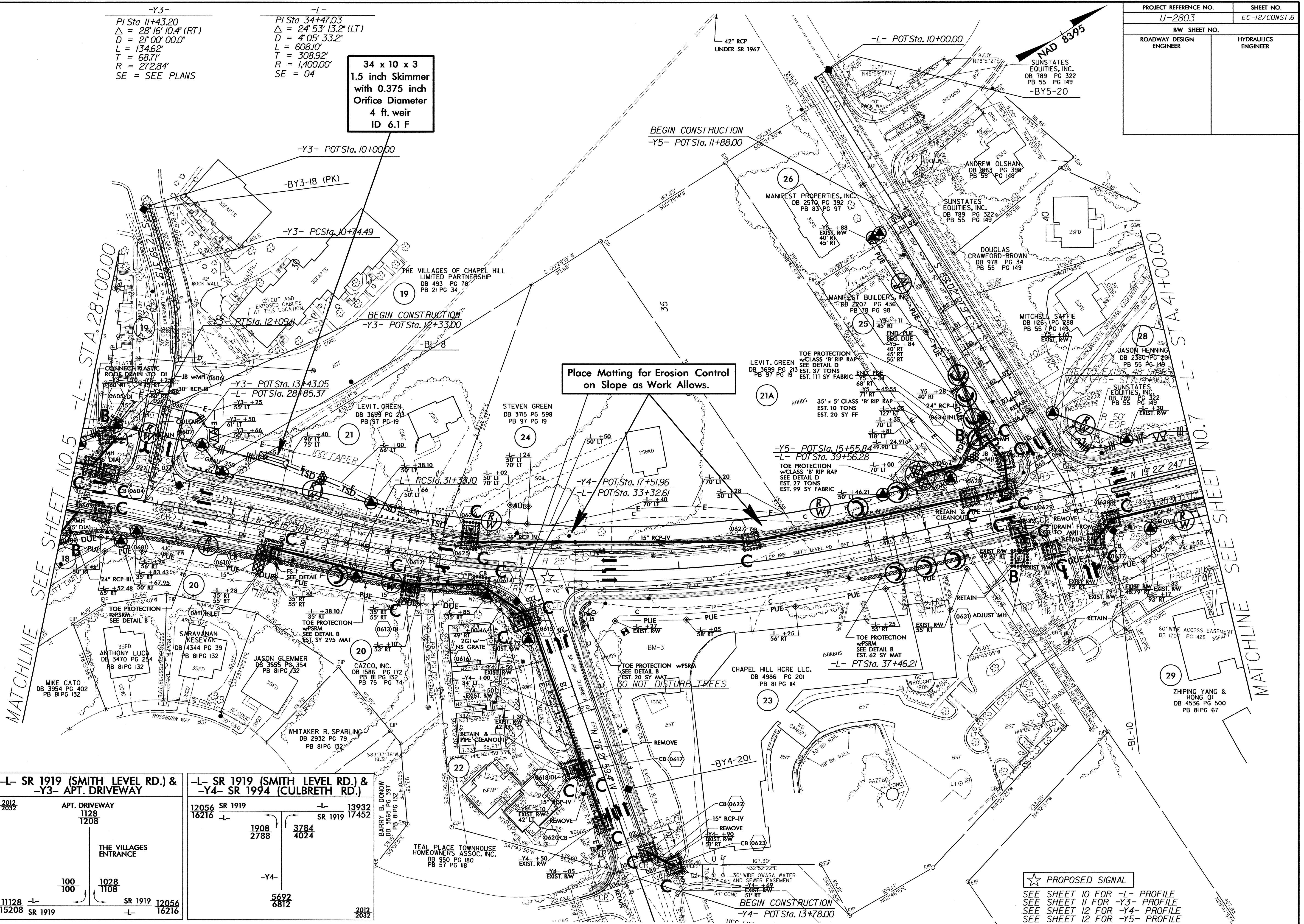
PROJECT REFERENCE NO.	SHEET NO.
U-2803	EC-12/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-Y3-
 PI Sta 11+43.20
 $\Delta = 28' 16" 10.4" (RT)$
 $D = 2' 00" 00.0"$
 $L = 1346.2'$
 $T = 68.71'$
 $R = 272.84'$
 SE = SEE PLANS

-L-
 PI Sta 34+47.03
 $\Delta = 24' 53" 13.2" (LT)$
 $D = 4' 05" 33.2"$
 $L = 608.10'$
 $T = 308.92'$
 $R = 1400.00'$
 SE = 04

34 x 10 x 3
 1.5 inch Skimmer
 with 0.375 inch
 Orifice Diameter
 4 ft. weir
 ID 6.1 F

Place Matting for Erosion Control
 on Slope as Work Allows.



-L- SR 1919 (SMITH LEVEL RD.) & -Y3- APT. DRIVEWAY

2012 2032	APT. DRIVEWAY 1128 1208	THE VILLAGES ENTRANCE
11128 15208	100 100	1028 1108
SR 1919	12056 16216	12056 16216

-L- SR 1919 (SMITH LEVEL RD.) & -Y4- SR 1994 (CULBRETH RD.)

12056 16216	1908 2788	3784 4024	13932 17452
SR 1919	SR 1919	SR 1919	SR 1919
5692 6812	2012 2032		

★ PROPOSED SIGNAL
 SEE SHEET 10 FOR -L- PROFILE
 SEE SHEET 11 FOR -Y3- PROFILE
 SEE SHEET 12 FOR -Y4- PROFILE
 SEE SHEET 12 FOR -Y5- PROFILE

8/17/99
 3-AUC-2012_07146
 R:\Environmental\Design\2803-EC_psh6.dgn
 richard.l...

PROJECT REFERENCE NO.	SHEET NO.
U-2803	EC-13/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

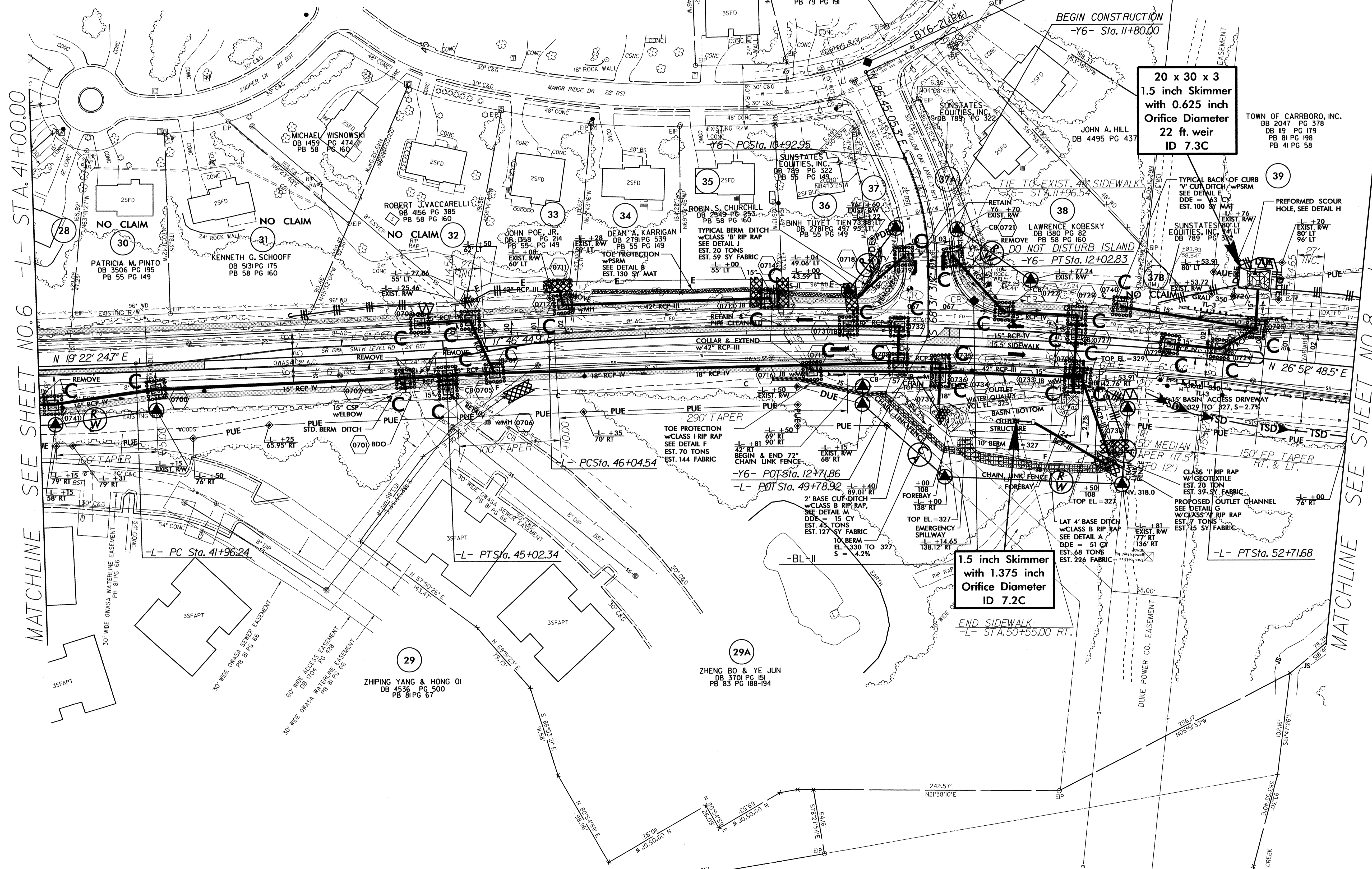
-L-
 PI Sta 43+49.30
 $\Delta = 1' 35' 39.8" (LT)$
 $D = 0' 31' 15.1"$
 $L = 306.10'$
 $T = 153.06'$
 $R = 11,000.00'$
 $SE = NC$

PI Sta 49+38.81
 $\Delta = 9' 06' 03.6" (RT)$
 $D = 1' 21' 51.1"$
 $L = 667.14'$
 $T = 334.27'$
 $R = 4,200.00'$
 $SE = 02$

-Y6-
 PI Sta 11+48.76
 $\Delta = 24' 43' 23.1" (RT)$
 $D = 22' 30' 00.0"$
 $L = 109.88'$
 $T = 55.81'$
 $R = 254.65'$
 $SE = SEE PLANS$

MATCHLINE SEE SHEET NO.6 -L- STA. 41+00.00

MATCHLINE SEE SHEET NO.8 -L- STA. 54+00.00



SEE SHEET 10 FOR -L- PROFILE
 SEE SHEET 12 FOR -Y6- PROFILE

8/17/99

31-AUG-2012 0:03
 R:\Environmental\Design\2803-EC_psh7.dgn
 w:\handled\EL_RBN\27778

PROJECT REFERENCE NO. U-2803	SHEET NO. EC-14/CONST.8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



**STA. 55+73.27 -L-
END TIP PROJECT U-2803**

MATCHLINE SEE SHEET NO.7 -L- STA.54+00.00

**20 x 27 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
19 ft. weir
ID 8.1C**

SEE SHEET II FOR -L- PROFILE

8/17/99
31-AUG-2012 10:09
C:\Users\jg\Documents\2803-EC-Const.8.dgn
Richard L. ...

