

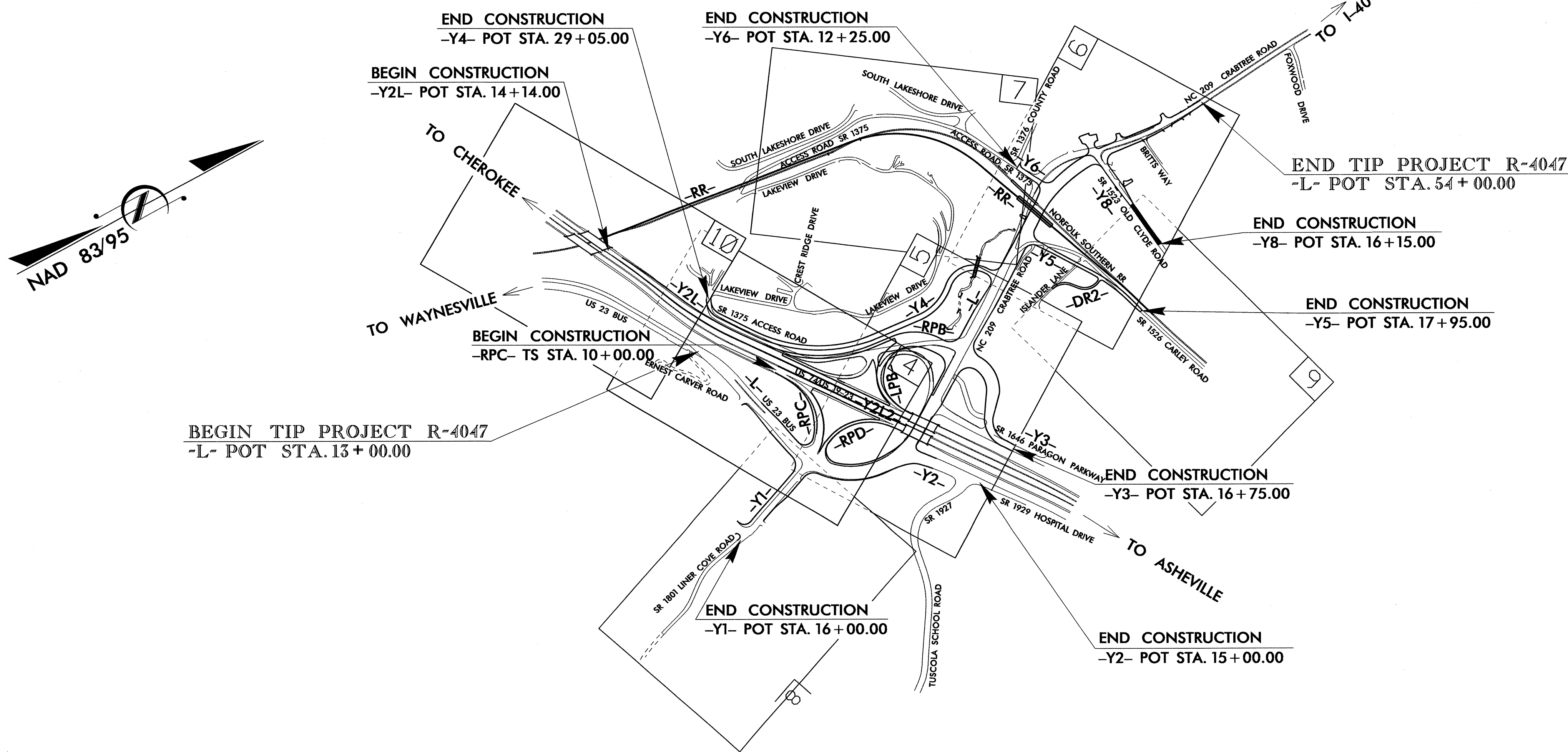
TIP PROJECT: R-4047

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

PLAN FOR PROPOSED HIGHWAY EROSION CONTROL

HAYWOOD COUNTY

LOCATION: NC 209 FROM US 23 BUS. TO NORTH OF SR 1523 (OLD CLYDE RD.)
TYPE OF WORK: GRADING, DRAINAGE, PAVING, RAILROAD REALGNMENT, RETAINING WALL, CULVERT, SIGNALS AND STRUCTURE



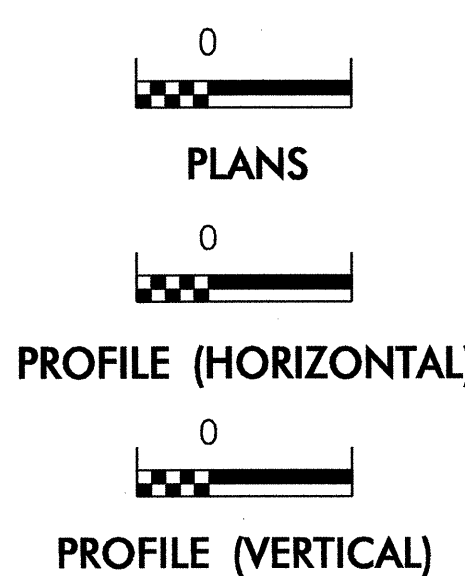
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-4047	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.05	Temporary Silt Ditch	TS
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.**

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

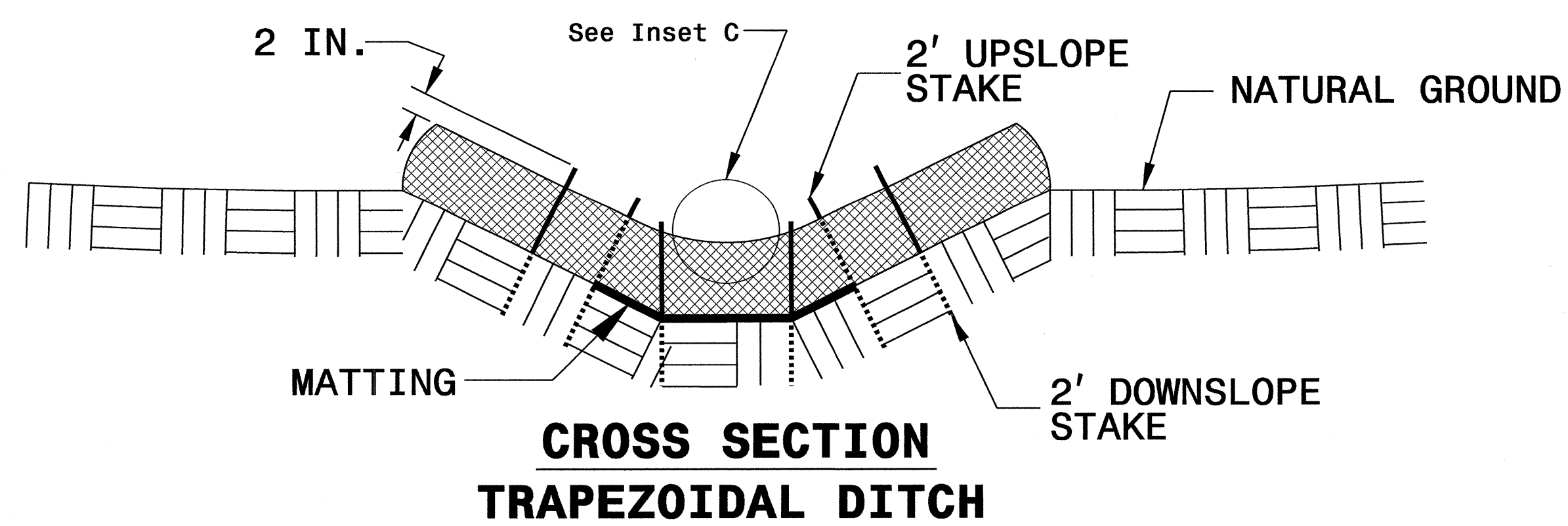
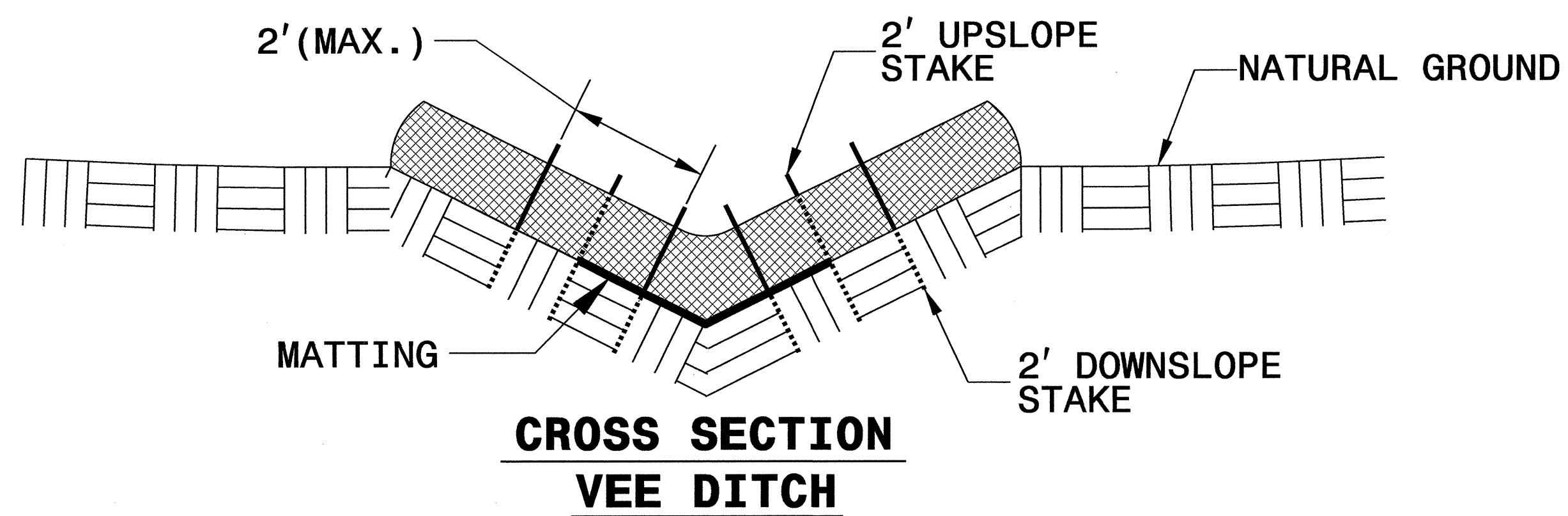
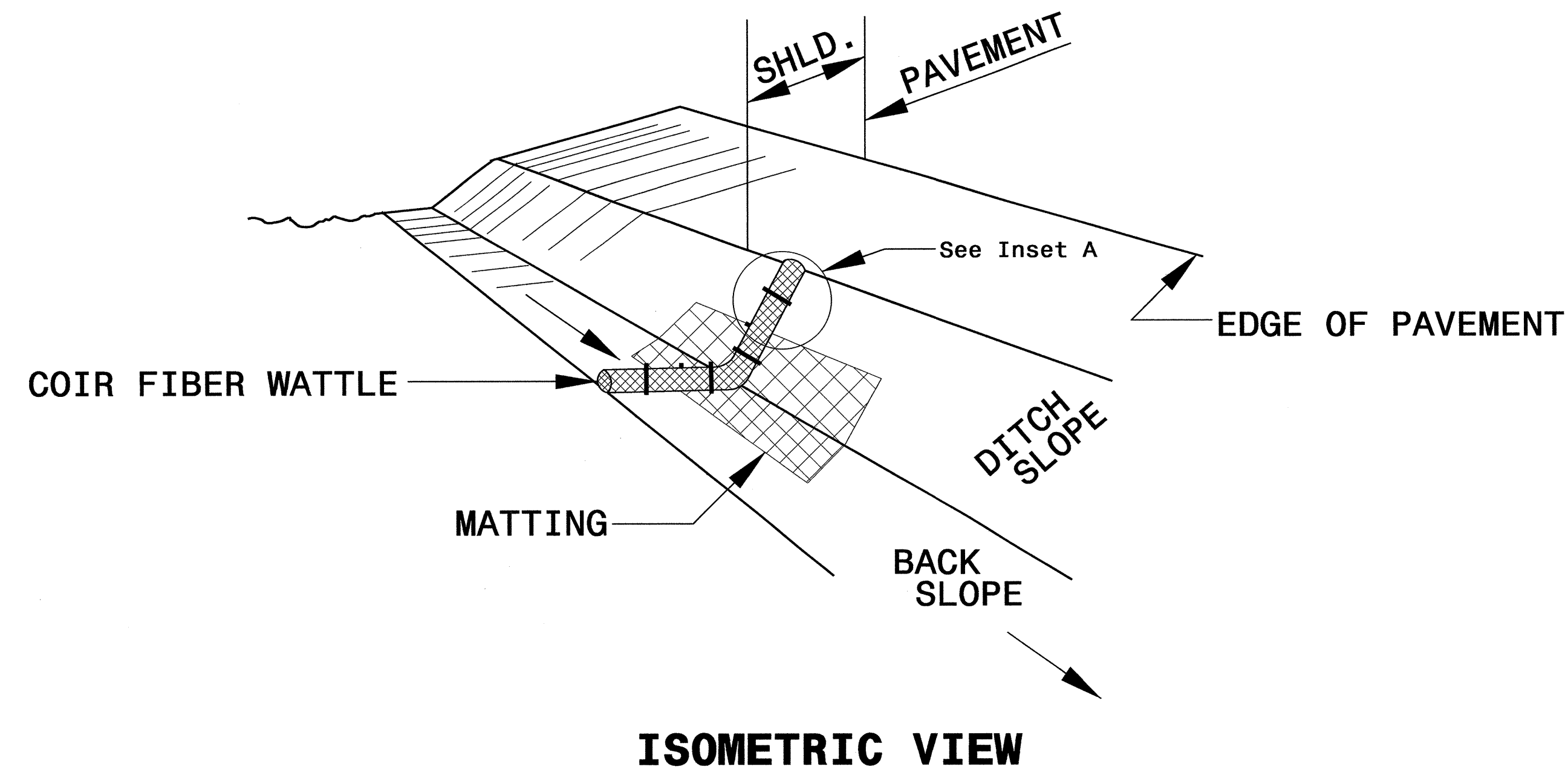
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2012 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

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	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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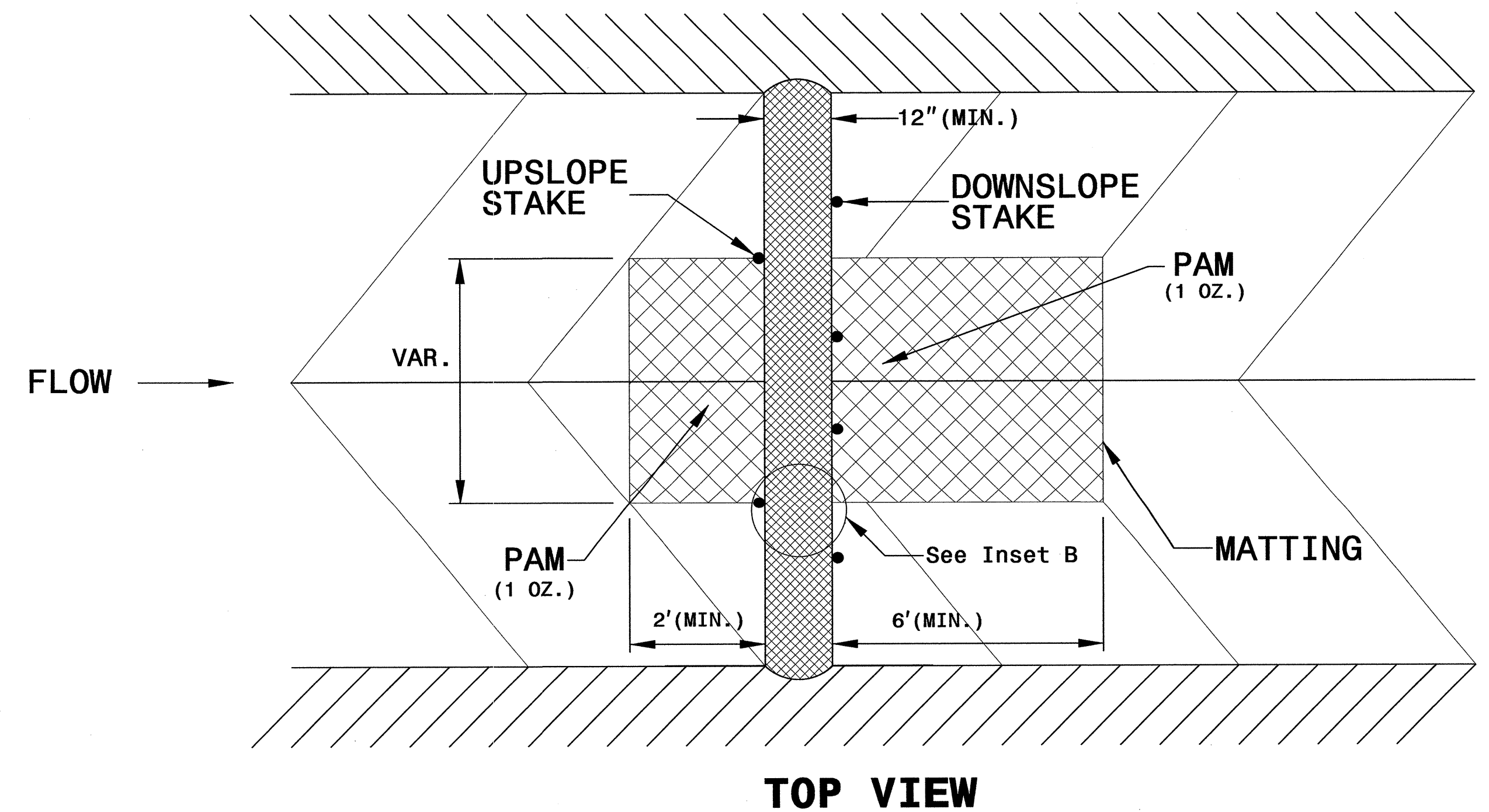
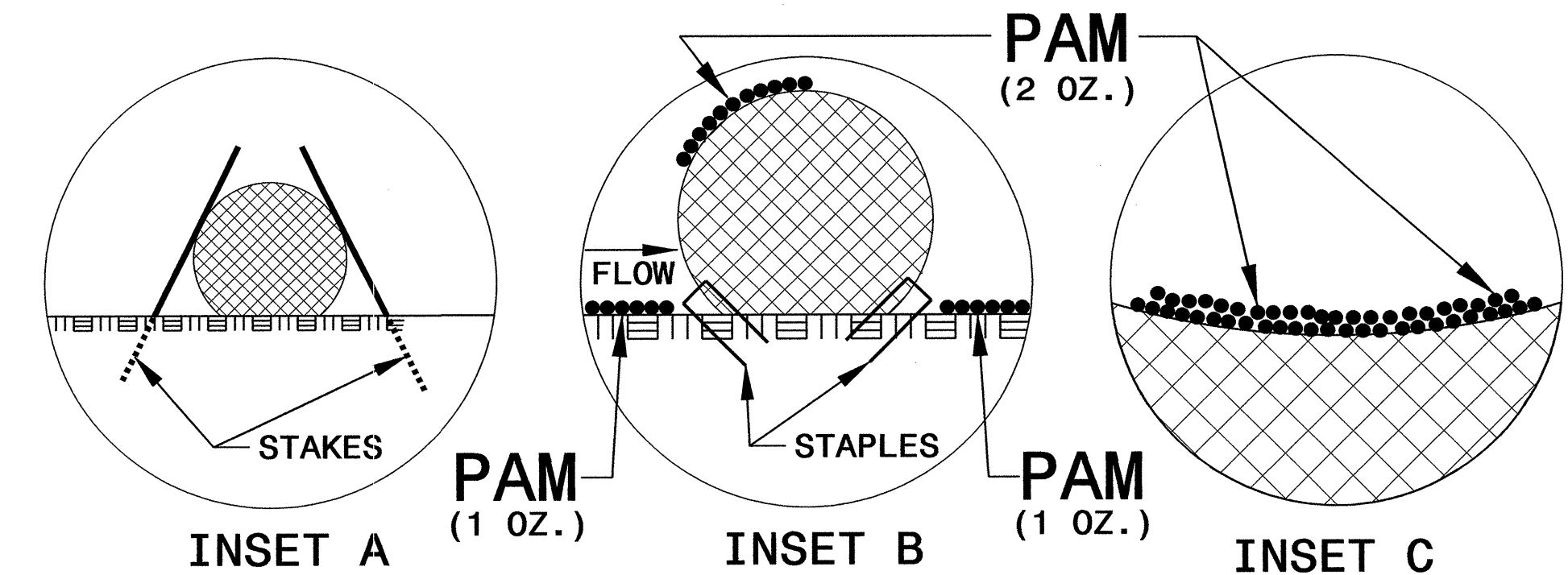
PROJECT REFERENCE NO. R-4047		SHEET NO. EC-2	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER			

COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



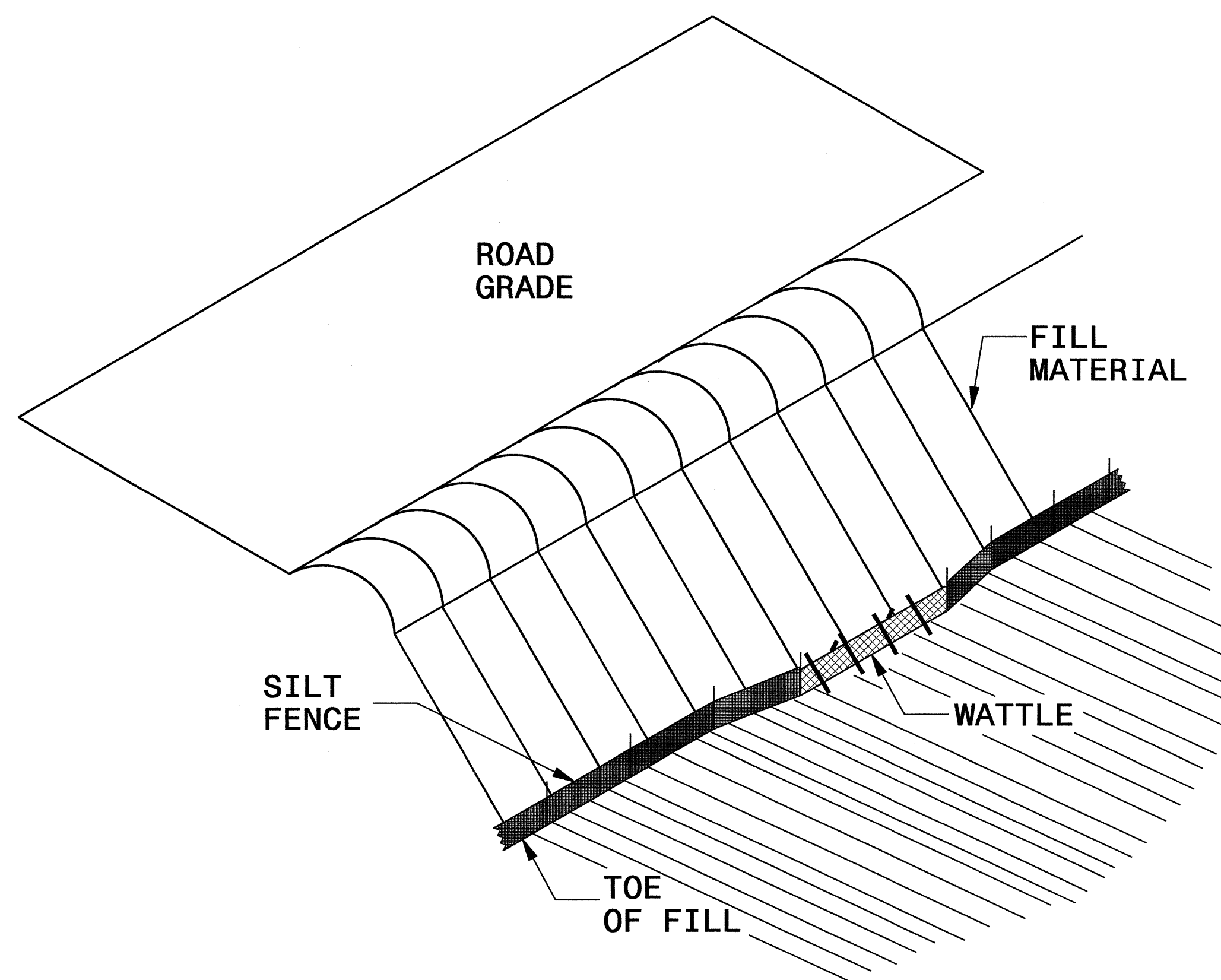
NOTES:

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

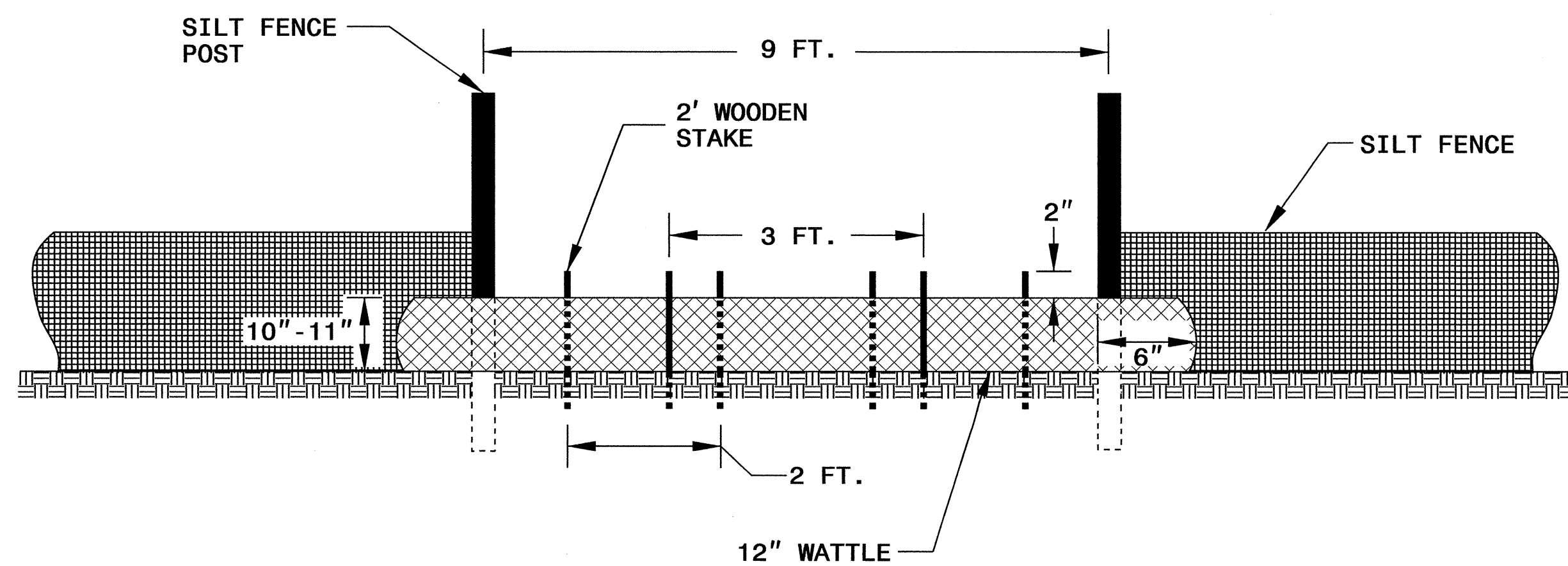


SILT FENCE COIR FIBER WATTLE BREAK DETAIL

PROJECT REFERENCE NO. R-4047	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



ISOMETRIC VIEW



VIEW FROM SLOPE

NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE AND LENGTH OF 10 FT.

EXCAVATE A 1 TO 2 INCH TRENCH FOR WATTLE TO BE PLACED.

DO NOT PLACE WATTLE ON TOE OF SLOPE.

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

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

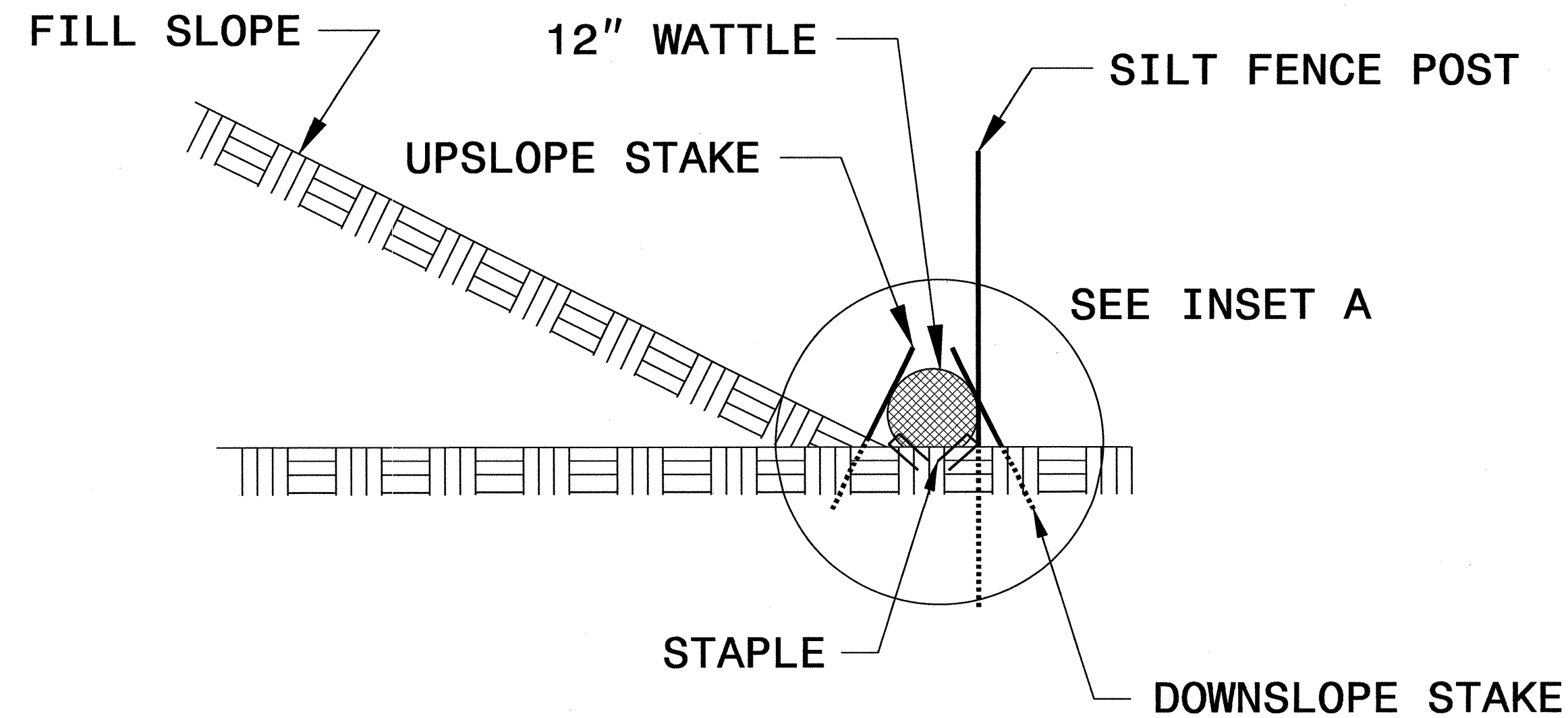
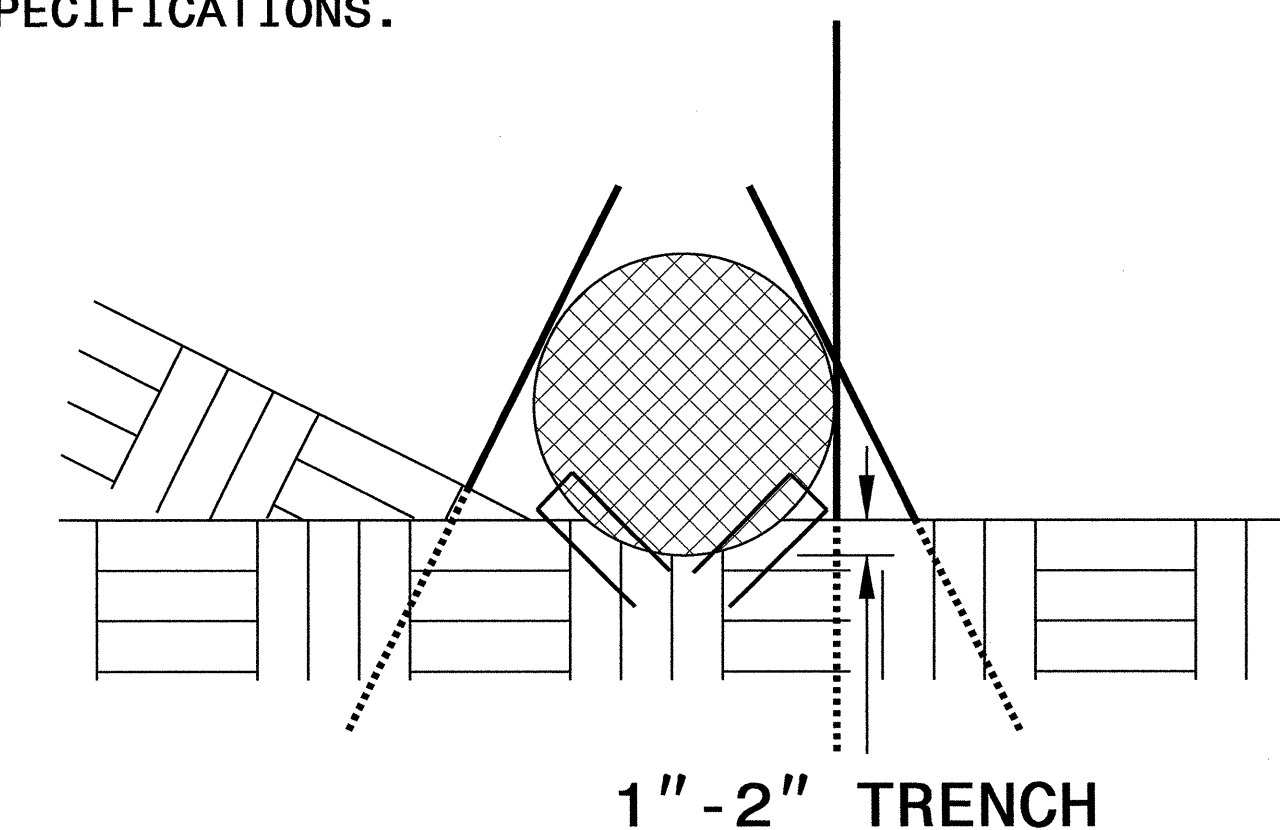
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

WATTLE INSTALLATION CAN BE ON OUTSIDE OF THE SILT FENCE AS DIRECTED.

INSTALL TEMPORARY SILT FENCE IN ACCORDANCE WITH SECTION 1605 OF THE STANDARD SPECIFICATIONS.

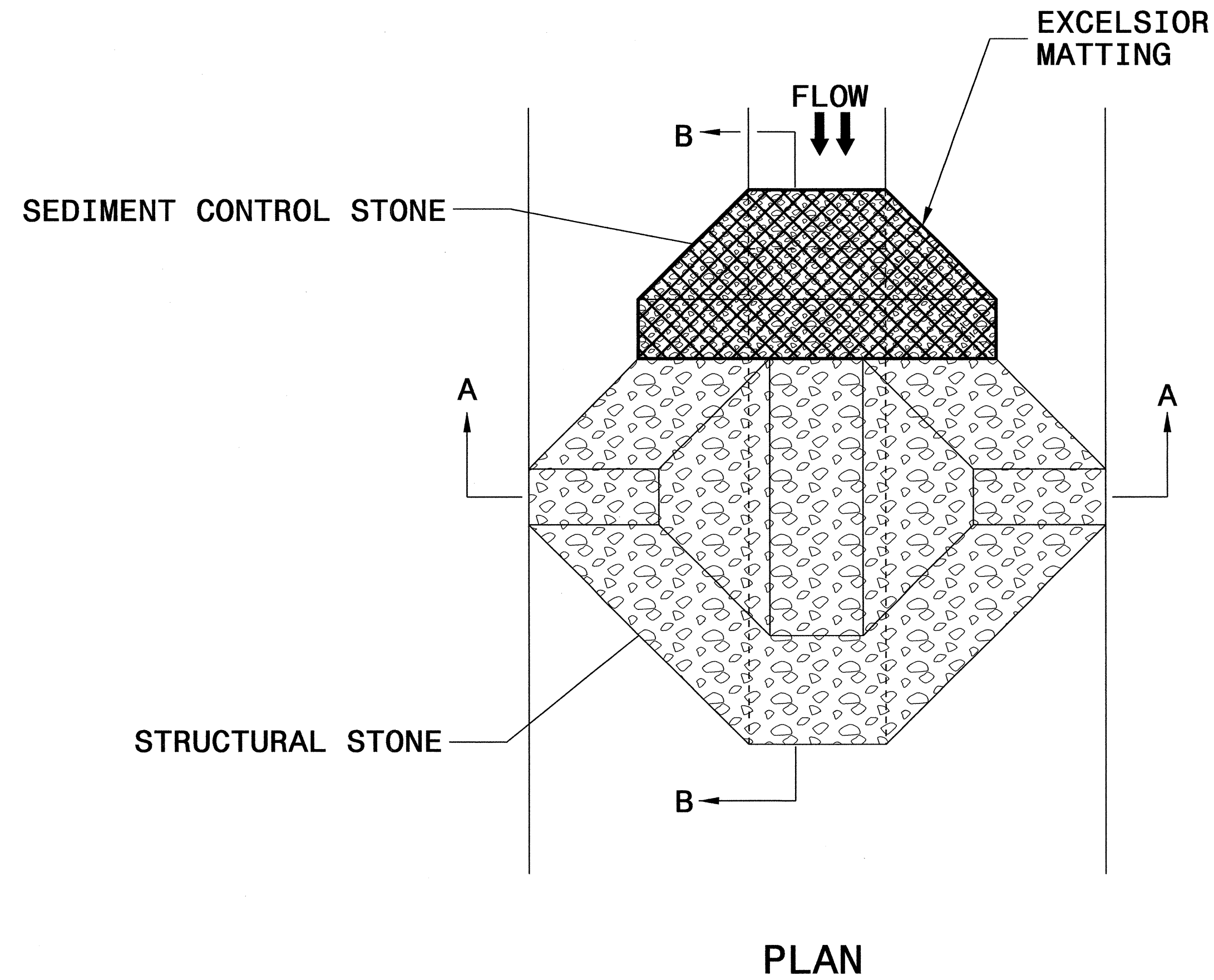
INSET A



SIDE VIEW

PROJECT REFERENCE NO. R-4047	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

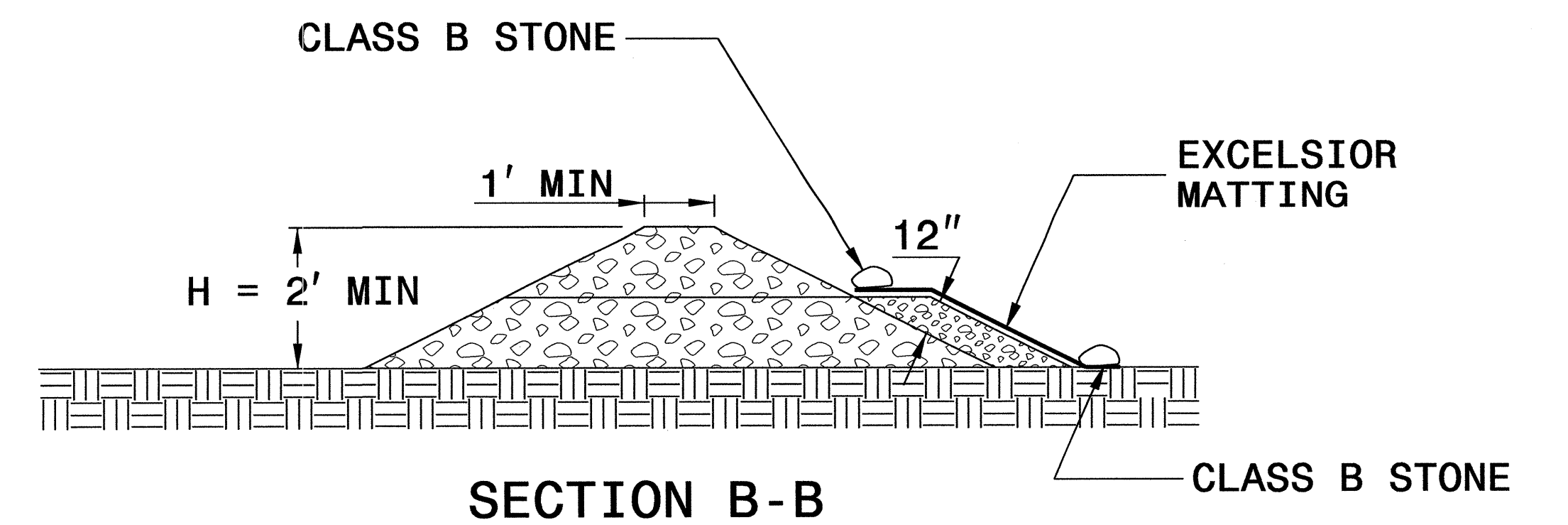
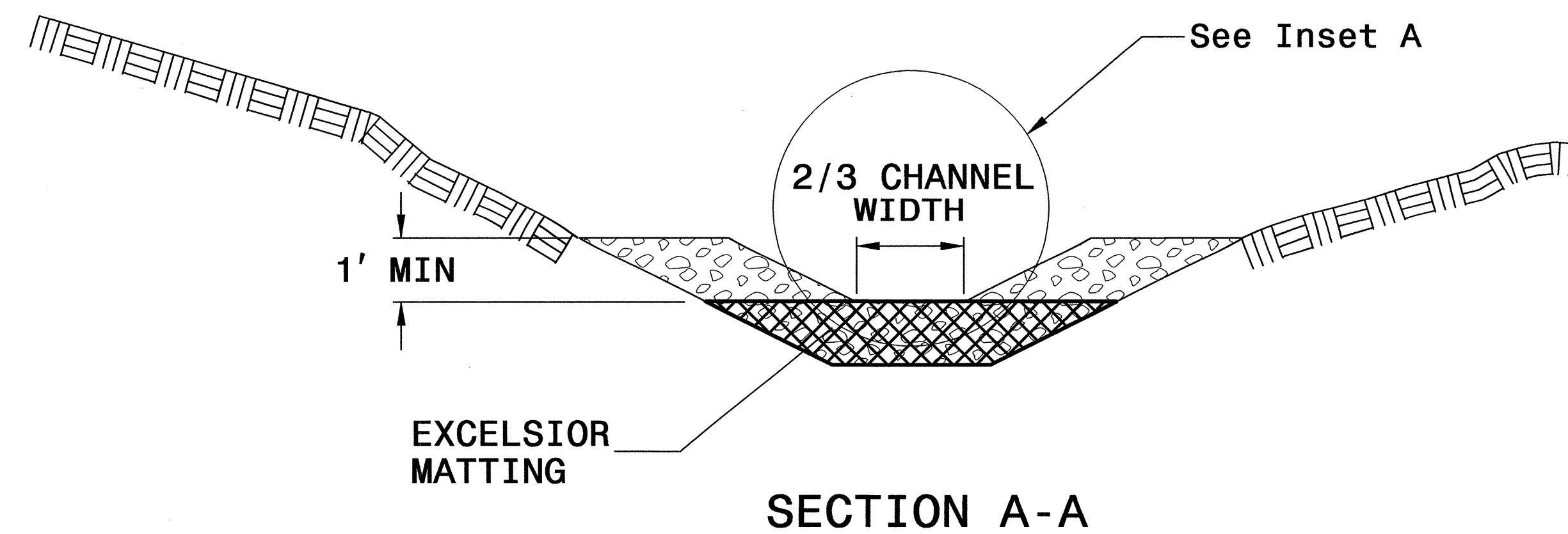
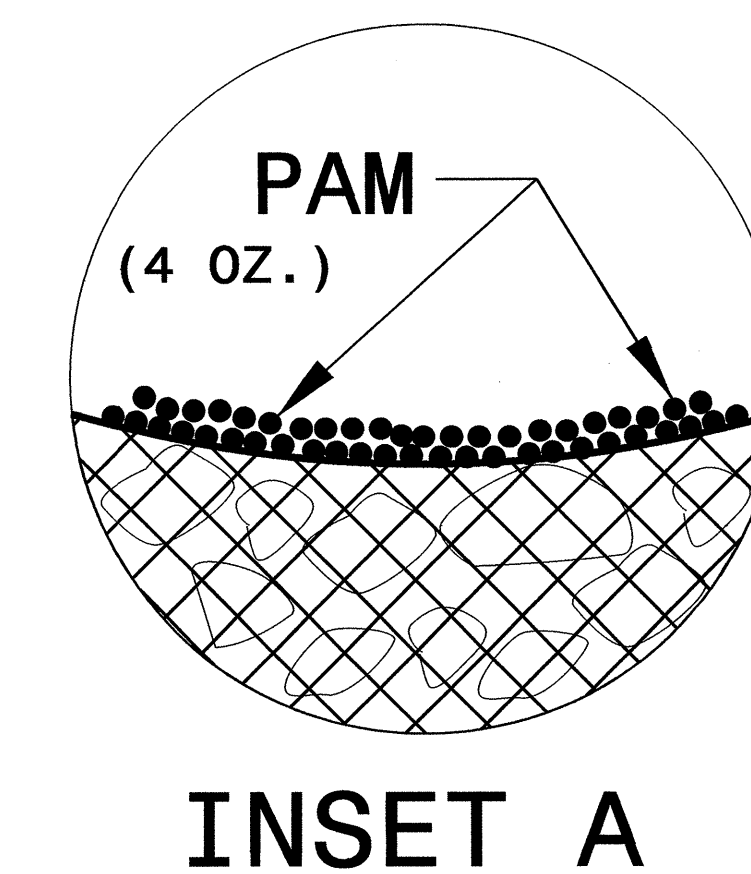


NOTES

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 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

PROJECT REFERENCE NO. <i>R-4047</i>	SHEET NO. <i>EC-3A</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

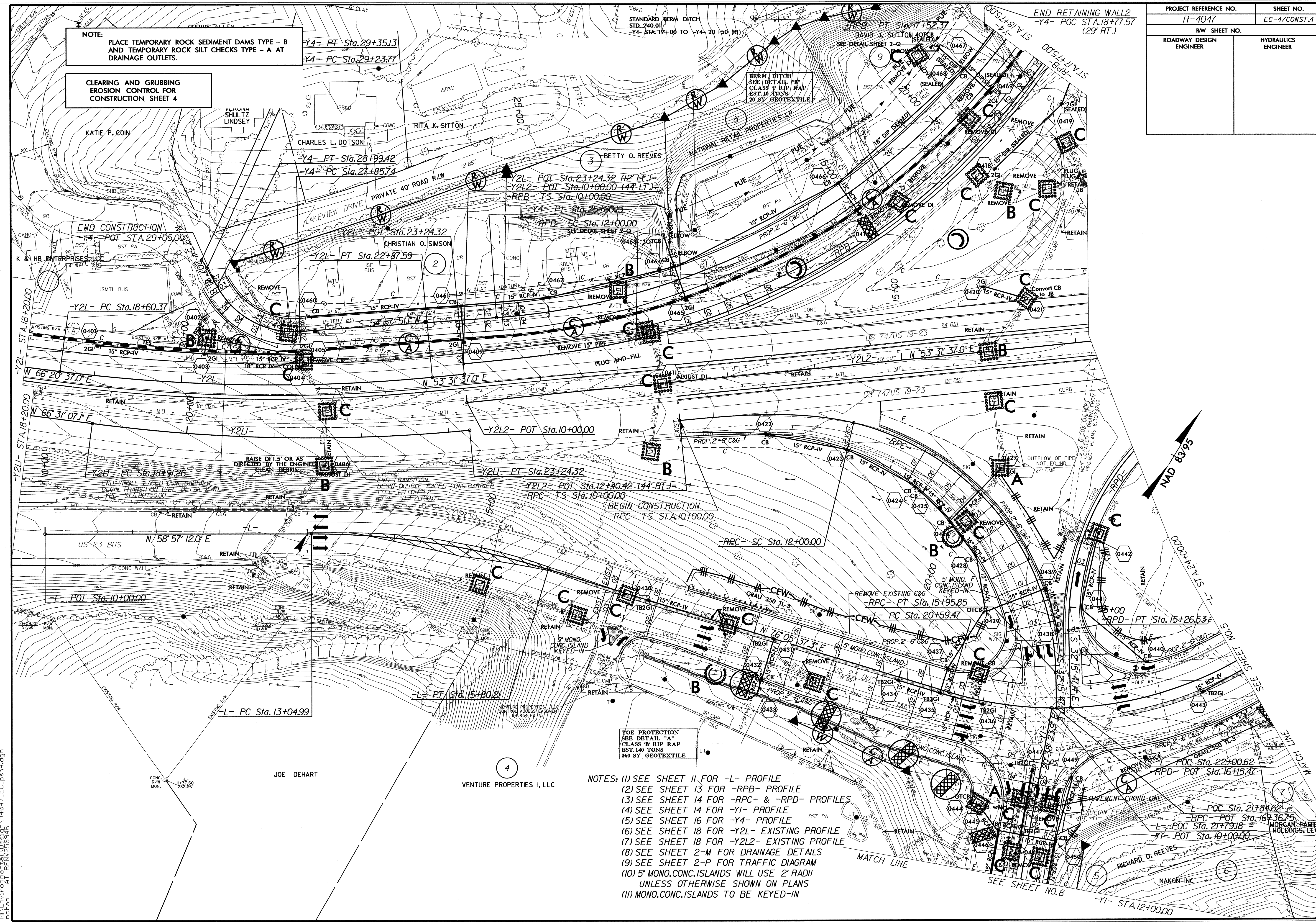
SOIL STABILIZATION TIMEFRAMES

<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.
R-4047	EC-4/CONST.4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



END CONSTRUCTION
Y4 POT STA. 29+05.00

Y2L PC Sta. 18+60.37

Y2L1 PC Sta. 18+91.26

US 23 BUS N 58° 57' 12.0" E

L POT Sta. 10+00.00

L PC Sta. 13+04.99

Y4 PT Sta. 29+35.13

Y4 PC Sta. 29+23.77

Y4 PT Sta. 28+99.42

Y4 PC Sta. 27+85.74

Y2L POT Sta. 23+24.32

Y2L PT Sta. 22+87.59

Y2L2 POT Sta. 10+00.00

RFB TS Sta. 10+00.00

Y4 PT Sta. 25+00.13

RFB SC Sta. 12+00.00

SEE DETAIL SHEET 2-Q

Y2L2 POT Sta. 12+40.42

RPC TS Sta. 10+00.00

BEGIN CONSTRUCTION
RPC TS STA. 10+60.00

Y2L2 POT Sta. 10+00.00

Y2L1 PT Sta. 23+24.32

Y2L2 POT Sta. 12+40.42

RPC TS Sta. 10+00.00

RPC SC Sta. 12+00.00

Y2L2 POT Sta. 12+40.42

RPC TS Sta. 10+00.00

Y2L2 POT Sta. 12+40.42

RPC TS Sta. 10+00.00

RPC SC Sta. 12+00.00

Y2L2 POT Sta. 12+40.42

RPC TS Sta. 10+00.00

RPC SC Sta. 12+00.00

Y2L2 POT Sta. 12+40.42

RPC TS Sta. 10+00.00

RPC SC Sta. 12+00.00

Y2L2 POT Sta. 12+40.42

RPC TS Sta. 10+00.00

RPC SC Sta. 12+00.00

Y2L2 POT Sta. 12+40.42

RPC TS Sta. 10+00.00

RPC SC Sta. 12+00.00

Y2L2 POT Sta. 12+40.42

RPC TS Sta. 10+00.00

RPC SC Sta. 12+00.00

Y2L2 POT Sta. 12+40.42

RPC TS Sta. 10+00.00

RPC SC Sta. 12+00.00

Y2L2 POT Sta. 12+40.42

RPC TS Sta. 10+00.00

RPC SC Sta. 12+00.00

TOE PROTECTION
SEE DETAIL "A"
CLASS "B" RIP RAP
EST. 140 TONS
560 SY GEOTEXTILE

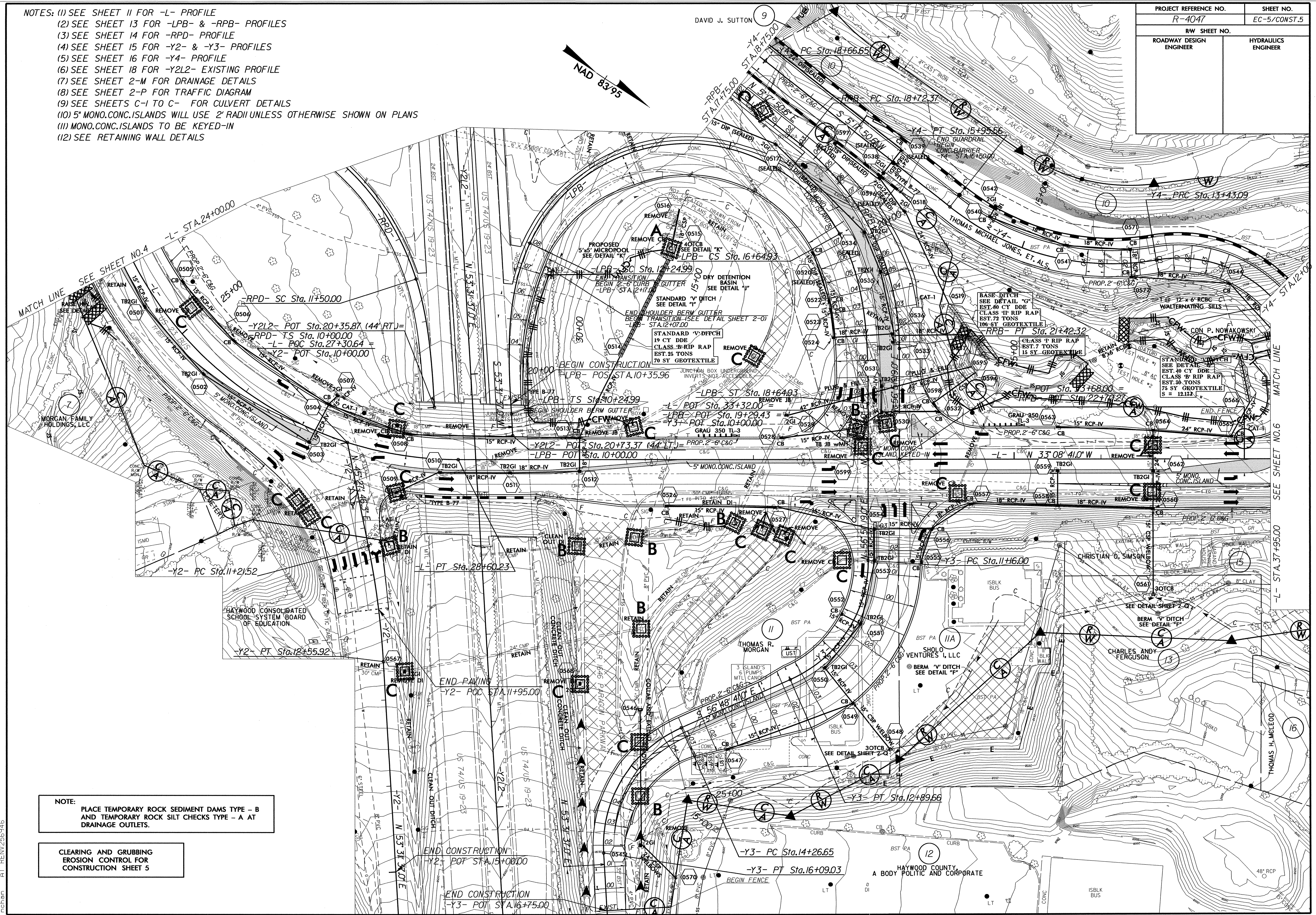
- NOTES:
- (1) SEE SHEET 11 FOR -L- PROFILE
 - (2) SEE SHEET 13 FOR -RPB- PROFILE
 - (3) SEE SHEET 14 FOR -RPC- & -RPD- PROFILES
 - (4) SEE SHEET 14 FOR -Y1- PROFILE
 - (5) SEE SHEET 16 FOR -Y4- PROFILE
 - (6) SEE SHEET 18 FOR -Y2L- EXISTING PROFILE
 - (7) SEE SHEET 18 FOR -Y2L2- EXISTING PROFILE
 - (8) SEE SHEET 2-M FOR DRAINAGE DETAILS
 - (9) SEE SHEET 2-P FOR TRAFFIC DIAGRAM
 - (10) 5' MONO.CONC.ISLANDS WILL USE 2' RADI
UNLESS OTHERWISE SHOWN ON PLANS
 - (11) MONO.CONC.ISLANDS TO BE KEYED-IN

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mchan AT REN256346

- NOTES: (1) SEE SHEET 11 FOR -L- PROFILE
 (2) SEE SHEET 13 FOR -LPB- & -RPB- PROFILES
 (3) SEE SHEET 14 FOR -RPD- PROFILE
 (4) SEE SHEET 15 FOR -Y2- & -Y3- PROFILES
 (5) SEE SHEET 16 FOR -Y4- PROFILE
 (6) SEE SHEET 18 FOR -Y2L2- EXISTING PROFILE
 (7) SEE SHEET 2-M FOR DRAINAGE DETAILS
 (8) SEE SHEET 2-P FOR TRAFFIC DIAGRAM
 (9) SEE SHEETS C-1 TO C- FOR CULVERT DETAILS
 (10) 5' MONO.CONC.ISLANDS WILL USE 2' RADII UNLESS OTHERWISE SHOWN ON PLANS
 (11) MONO.CONC.ISLANDS TO BE KEYED-IN
 (12) SEE RETAINING WALL DETAILS

DAVID J. SUTTON

PROJECT REFERENCE NO. R-4047	SHEET NO. EC-5/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



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

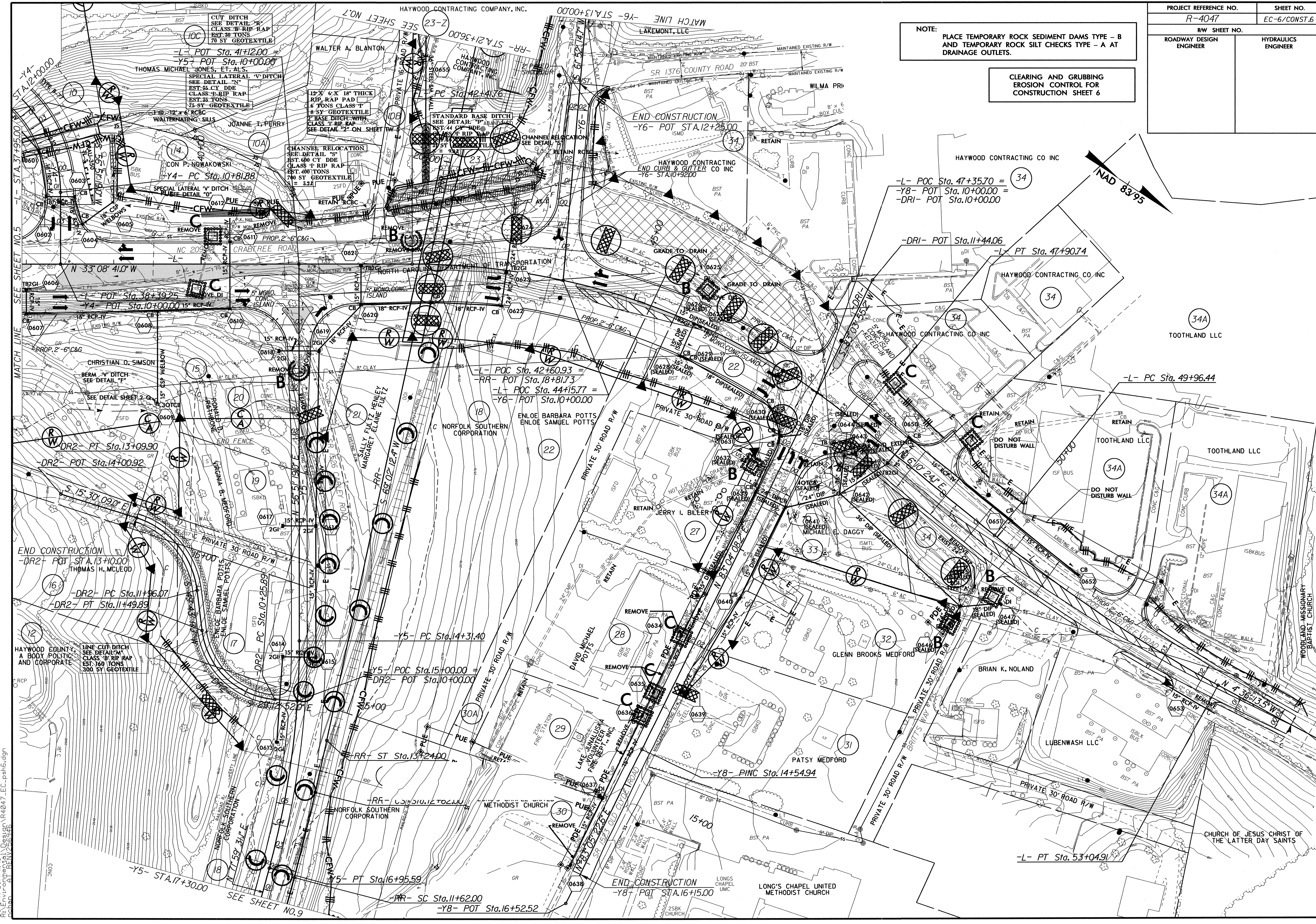
CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 5

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 nchen

PROJECT REFERENCE NO.		SHEET NO.	
R-4047		EC-6/CONST.6	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

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 6

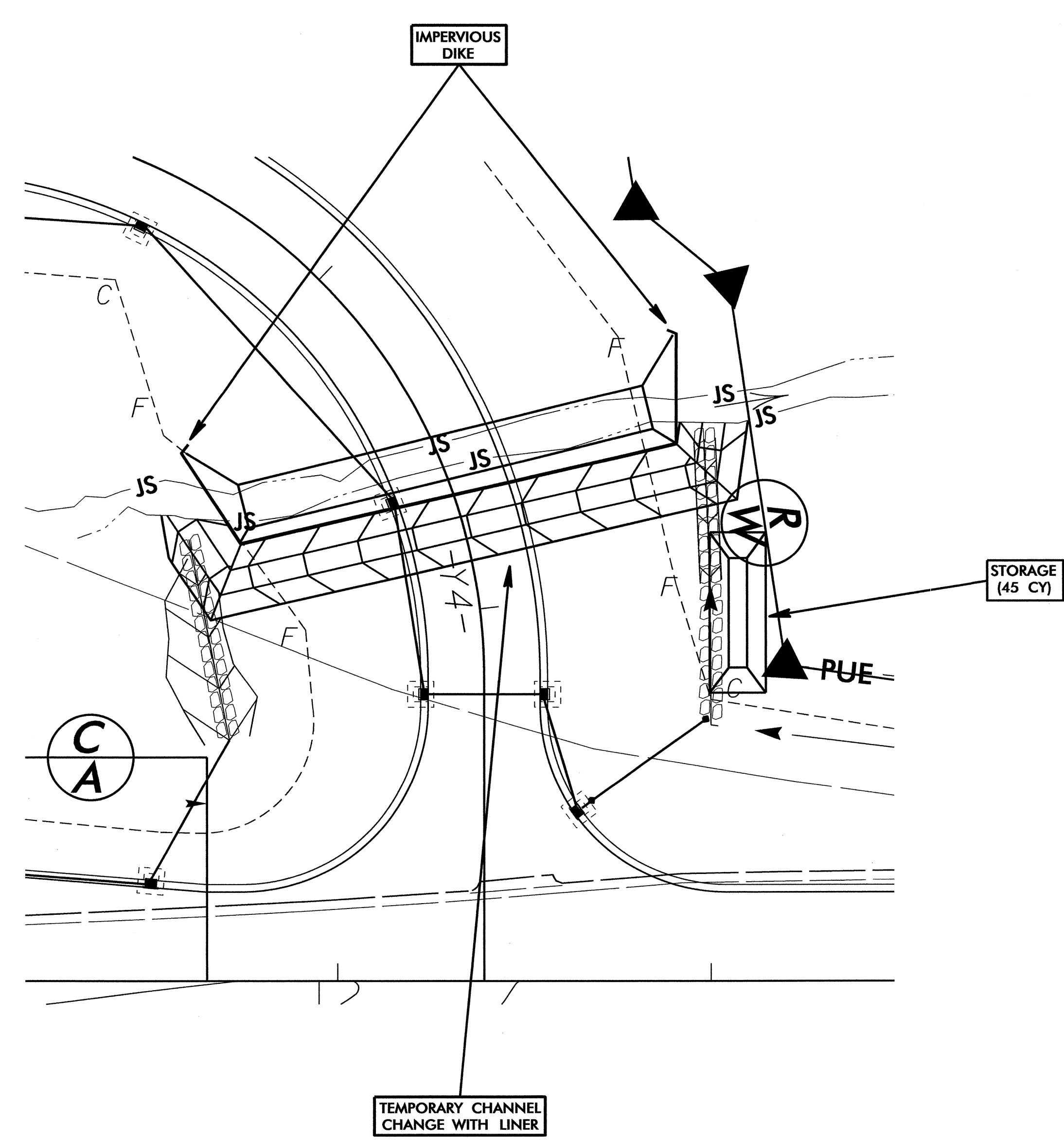


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PROJECT REFERENCE NO. R-4047	SHEET NO. EC-7/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 11+41.87 -Y4-

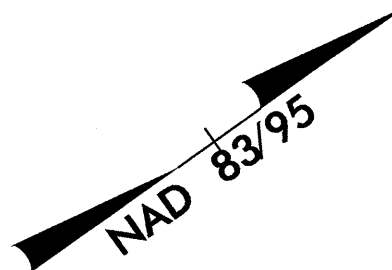
1. CONSTRUCT STILLING BASIN (45 CY).
2. CONSTRUCT IMPERVIOUS DIKE AND TEMPORARY CHANNEL CHANGE WITH LINER (6 FT. BASE, 3 FT. DEEP, 2:1 SIDE SLOPES), DIVERTING FLOW.
3. CONSTRUCT PROPOSED CULVERT AND ANY NECESSARY INLET/OUTLET CHANNEL IMPROVEMENTS.
4. REMOVE IMPERVIOUS DIKE AND TEMPORARY CHANNEL CHANGE, ALLOWING FLOW THROUGH PROPOSED CULVERT.
5. REMOVE STILLING BASIN.
6. COMPLETE ROADWAY.



PROJECT REFERENCE NO. R-4047	SHEET NO. EC-8/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

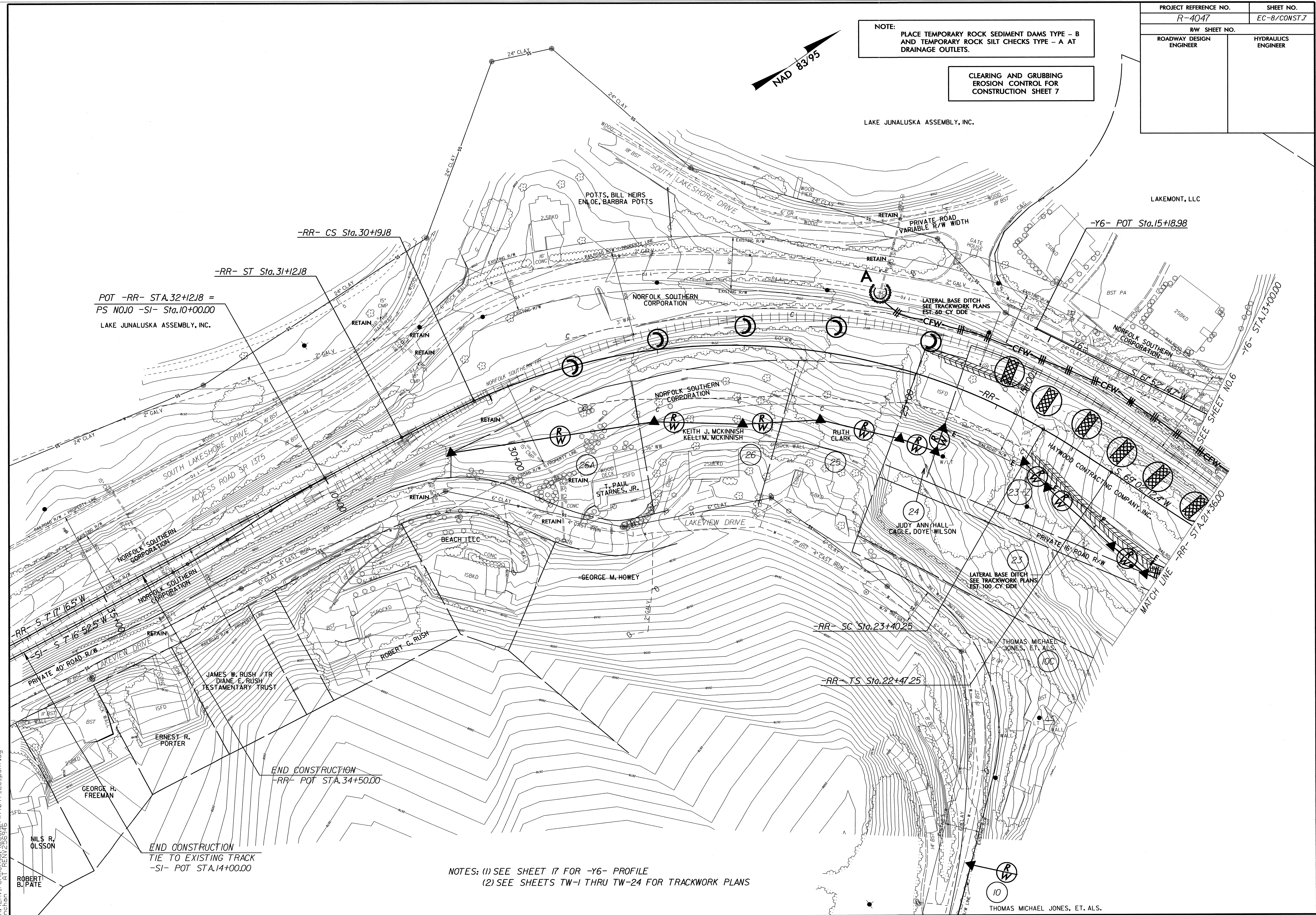
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 7



LAKE JUNALUSKA ASSEMBLY, INC.

LAKEMONT, LLC



POT -RR- STA. 32+12.18 =
PS NOJO -SI- Sta. 10+00.00
LAKE JUNALUSKA ASSEMBLY, INC.

-RR- ST Sta. 31+12.18

-RR- CS Sta. 30+19.18

-Y6- POT Sta. 15+18.98

-RR- SC Sta. 23+40.25

-RR- TS Sta. 22+47.25

END CONSTRUCTION
-RR- POT STA. 34+50.00

END CONSTRUCTION
TIE TO EXISTING TRACK
-SI- POT STA. 14+00.00

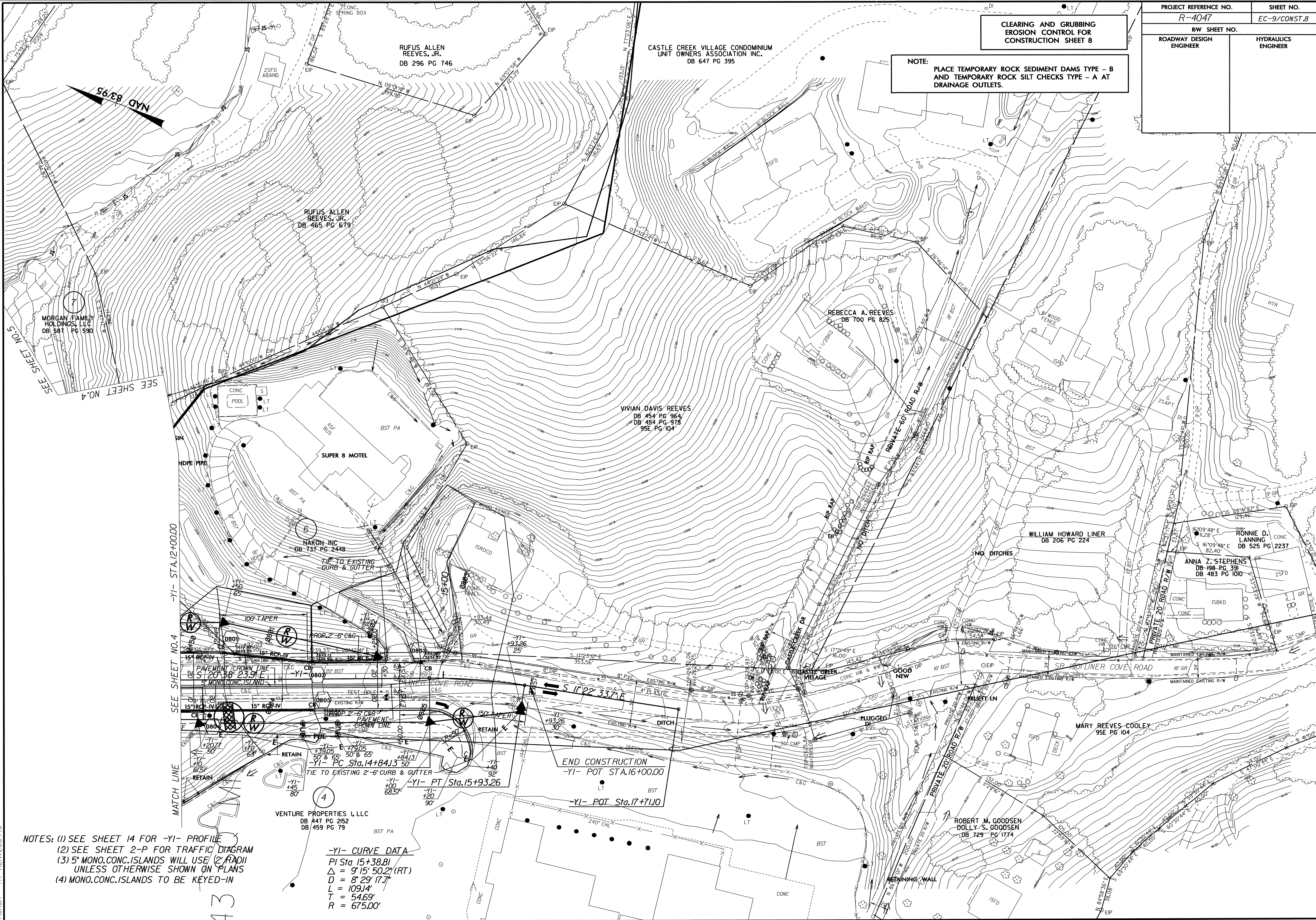
NOTES: (1) SEE SHEET 17 FOR -Y6- PROFILE
(2) SEE SHEETS TW-1 THRU TW-24 FOR TRACKWORK PLANS

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R: Environment
A1: RIN2353416

PROJECT REFERENCE NO.		SHEET NO.	
R-4047		EC-9/CONST.8	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

**CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 8**

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



- NOTES:**
- (1) SEE SHEET 14 FOR -YI- PROFILE
 - (2) SEE SHEET 2-P FOR TRAFFIC DIAGRAM
 - (3) 5' MONO.CONC.ISLANDS WILL USE 1/2" RADII UNLESS OTHERWISE SHOWN ON PLANS
 - (4) MONO.CONC.ISLANDS TO BE KEYED-IN

-YI- CURVE DATA

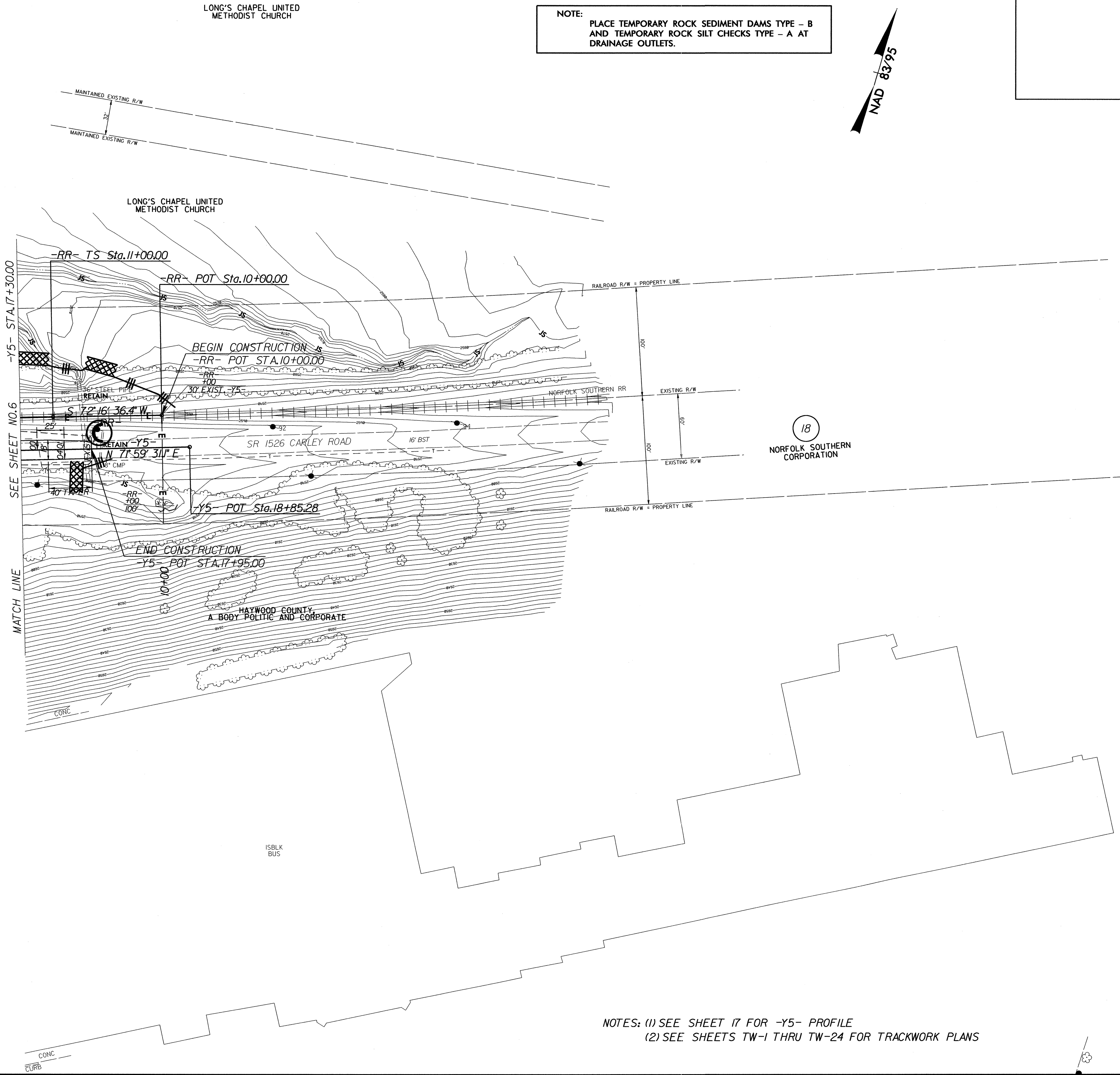
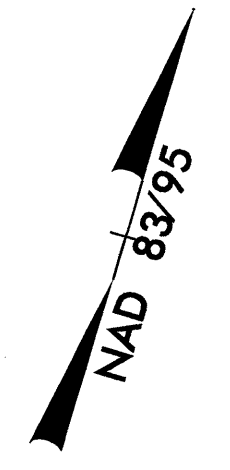
PI Sta 15+38.81
 $\Delta = 9' 15' 50.2''$ (RT)
 $D = 8' 29' 17.7''$
 $L = 109.14'$
 $T = 54.69'$
 $R = 675.00'$

06-JAN-2014 11:52
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PROJECT REFERENCE NO.	SHEET NO.
R-4047	EC-10/CONST.9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 9

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



NOTES: (1) SEE SHEET 17 FOR -Y5- PROFILE
(2) SEE SHEETS TW-1 THRU TW-24 FOR TRACKWORK PLANS

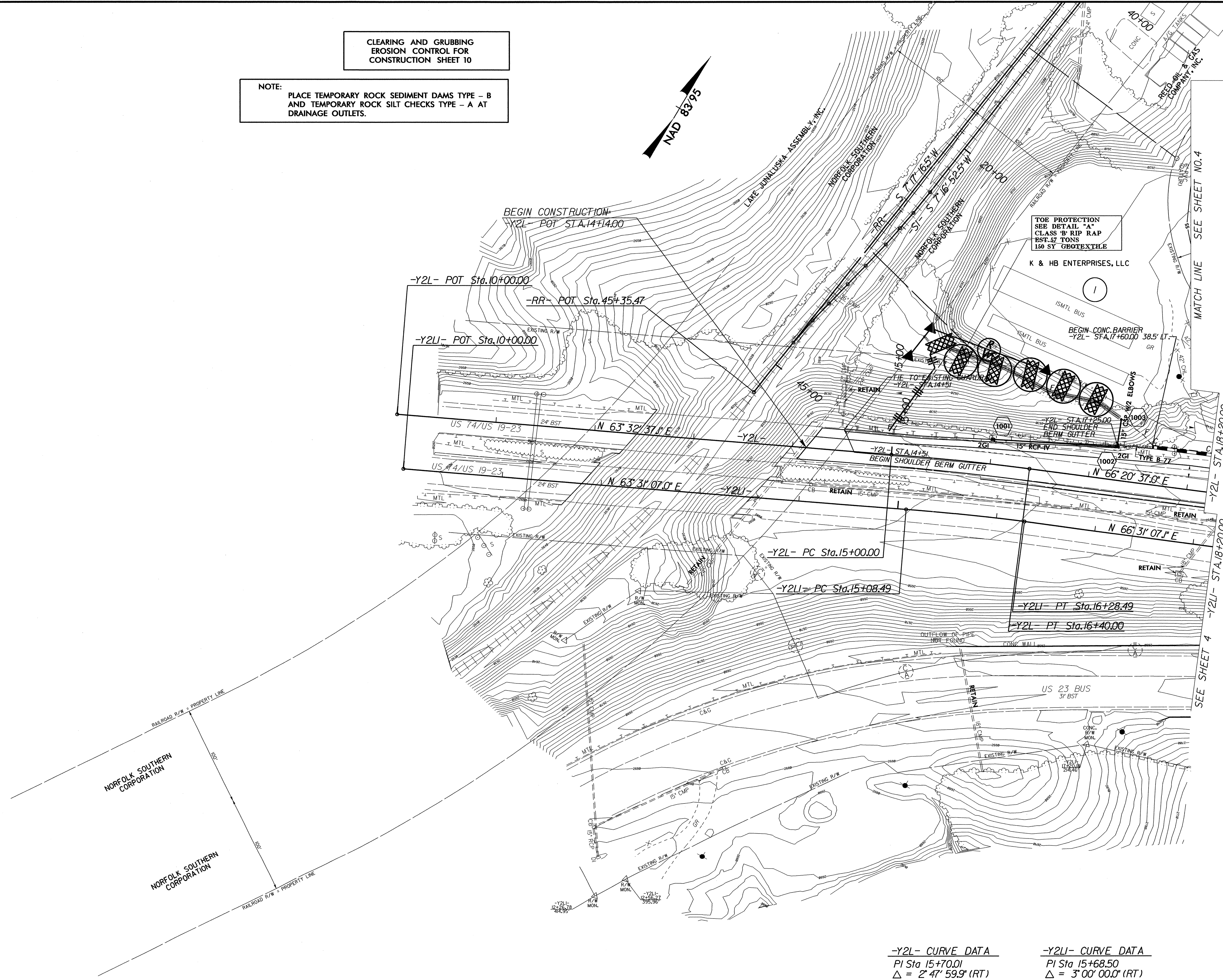
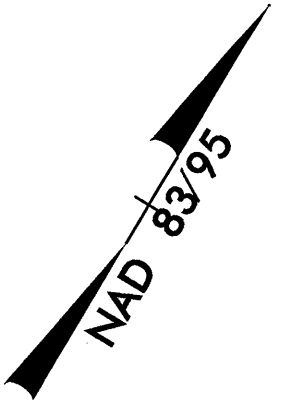
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nchan

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PROJECT REFERENCE NO. R-4047		SHEET NO. EC-11/CONST JO	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

**CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 10**

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

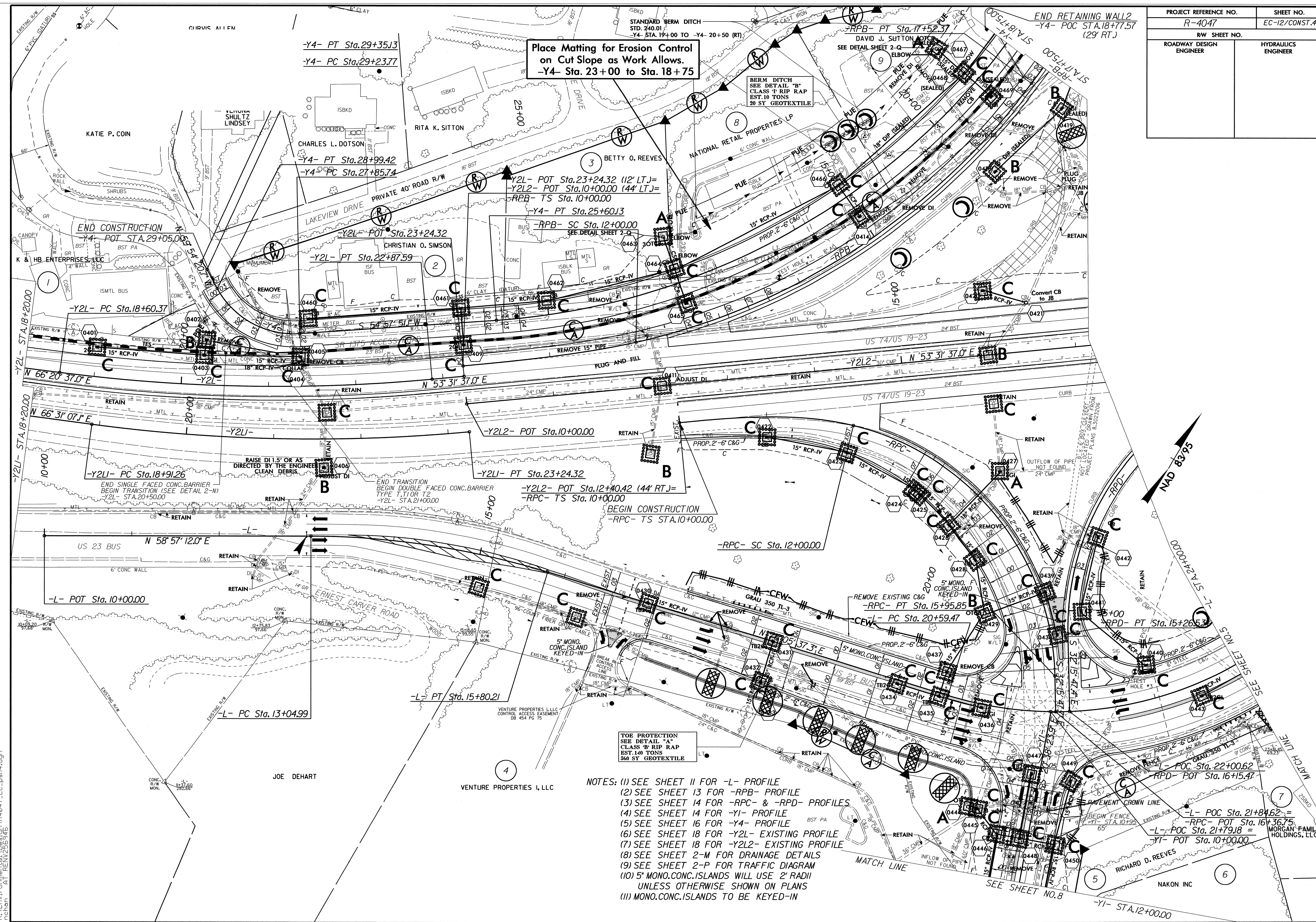


-Y2L- CURVE DATA	-Y2LI- CURVE DATA
PI Sta 15+70.01	PI Sta 15+68.50
$\Delta = 2' 47' 59.9''$ (RT)	$\Delta = 3' 00' 00.0''$ (RT)
D = 2' 00' 00.0"	D = 2' 30' 00.0"
L = 140.00'	L = 120.00'
T = 70.01'	T = 60.01'
R = 2,864.79'	R = 2,291.83'

NOTES: (1) SEE SHEET 18 FOR -Y2L- EXISTING PROFILE
(2) SEE SHEET 2-M FOR DRAINAGE DETAILS

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chen AT REN256748

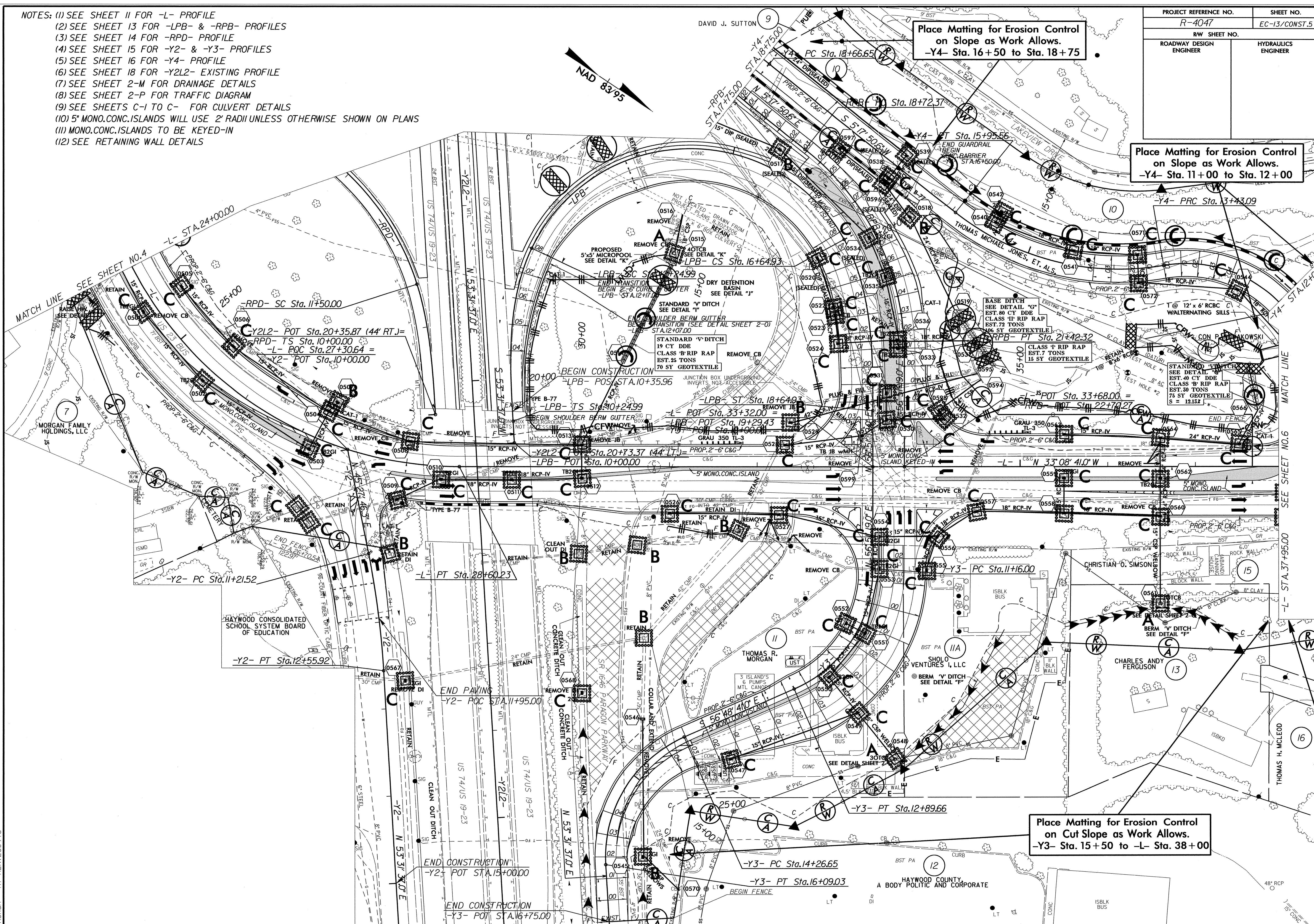
PROJECT REFERENCE NO. R-4047	SHEET NO. EC-12/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



06 JAN-2014 11:34
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chen

- NOTES: (1) SEE SHEET 11 FOR -L- PROFILE
 (2) SEE SHEET 13 FOR -LPB- & -RPB- PROFILES
 (3) SEE SHEET 14 FOR -RPD- PROFILE
 (4) SEE SHEET 15 FOR -Y2- & -Y3- PROFILES
 (5) SEE SHEET 16 FOR -Y4- PROFILE
 (6) SEE SHEET 18 FOR -Y2L2- EXISTING PROFILE
 (7) SEE SHEET 2-M FOR DRAINAGE DETAILS
 (8) SEE SHEET 2-P FOR TRAFFIC DIAGRAM
 (9) SEE SHEETS C-1 TO C- FOR CULVERT DETAILS
 (10) 5" MONO.CONC.ISLANDS WILL USE 2' RADII UNLESS OTHERWISE SHOWN ON PLANS
 (11) MONO.CONC.ISLANDS TO BE KEYED-IN
 (12) SEE RETAINING WALL DETAILS

PROJECT REFERENCE NO. R-4047	SHEET NO. EC-13/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



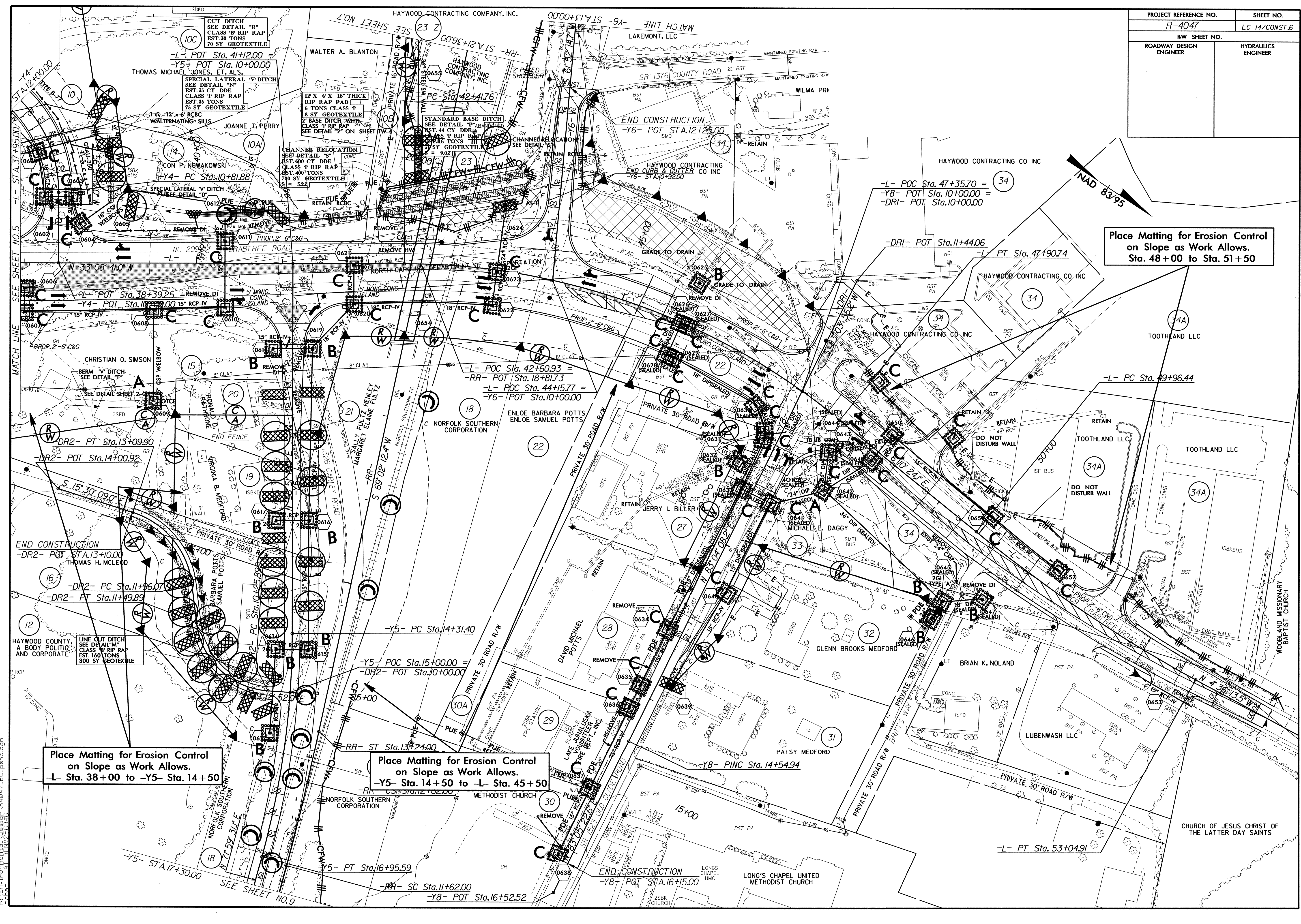
Place Matting for Erosion Control on Slope as Work Allows. -Y4- Sta. 16+50 to Sta. 18+75

Place Matting for Erosion Control on Slope as Work Allows. -Y4- Sta. 11+00 to Sta. 12+00

Place Matting for Erosion Control on Cut Slope as Work Allows. -Y3- Sta. 15+50 to -L- Sta. 38+00

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 R:\envi\p\m\ec\13\ec-13\const.5.dwg
 Author: ALI RENYI 206746

PROJECT REFERENCE NO.	SHEET NO.
R-4047	EC-14/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



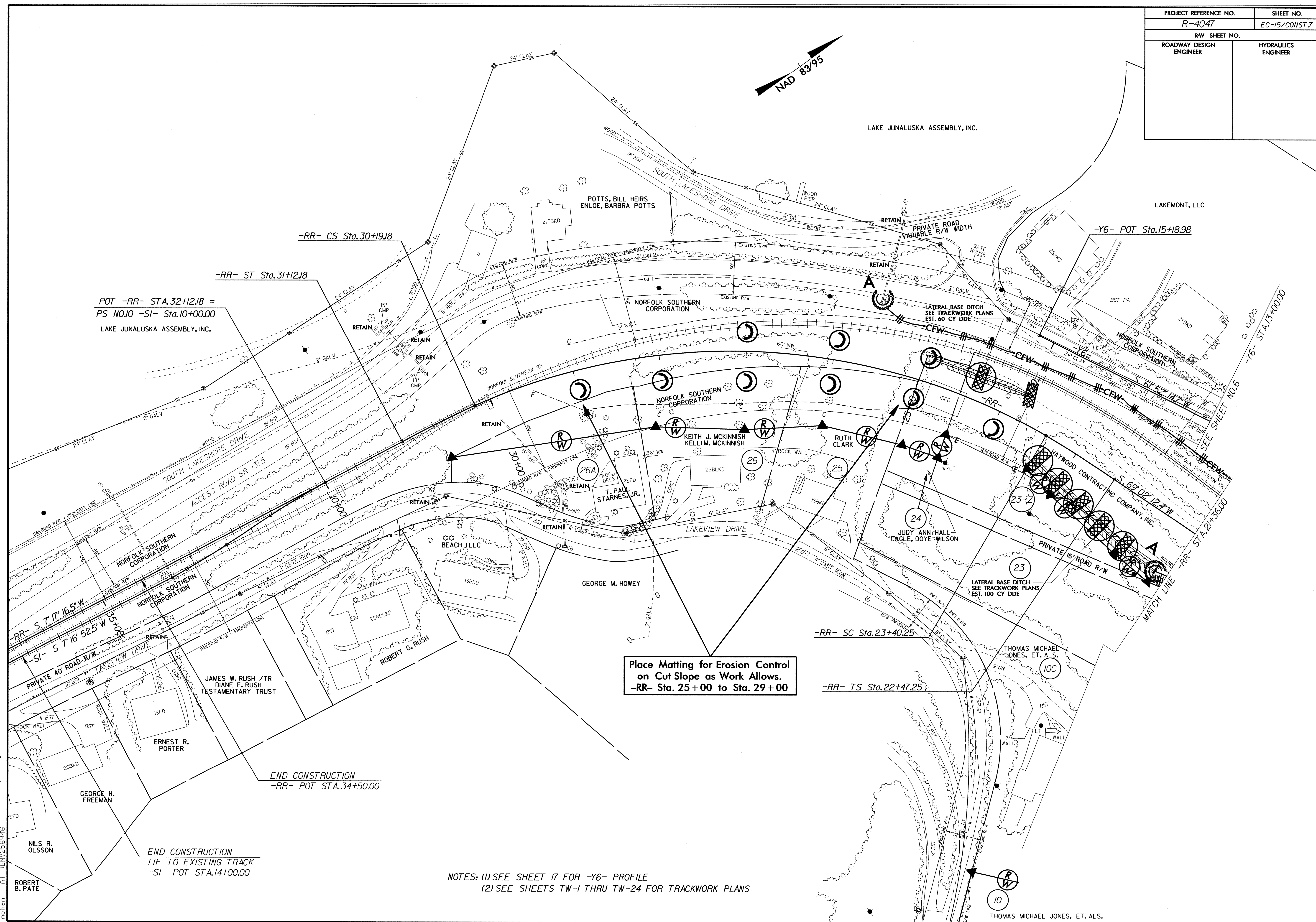
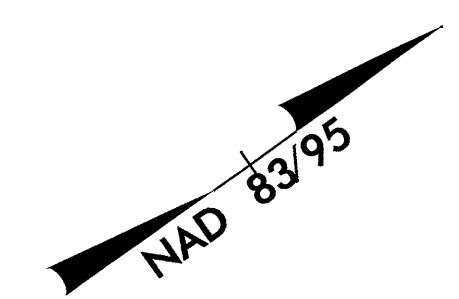
Place Matting for Erosion Control on Slope as Work Allows. Sta. 48+00 to Sta. 51+50

Place Matting for Erosion Control on Slope as Work Allows. -L- Sta. 38+00 to -Y5- Sta. 14+50

Place Matting for Erosion Control on Slope as Work Allows. -Y5- Sta. 14+50 to -L- Sta. 45+50

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 User: ALBEN25646

PROJECT REFERENCE NO.	SHEET NO.
R-4047	EC-15/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



POT -RR- STA. 32+12.18 =
PS NO. 10 -SI- Sta. 10+00.00
LAKE JUNALUSKA ASSEMBLY, INC.

Place Matting for Erosion Control
on Cut Slope as Work Allows.
-RR- Sta. 25+00 to Sta. 29+00

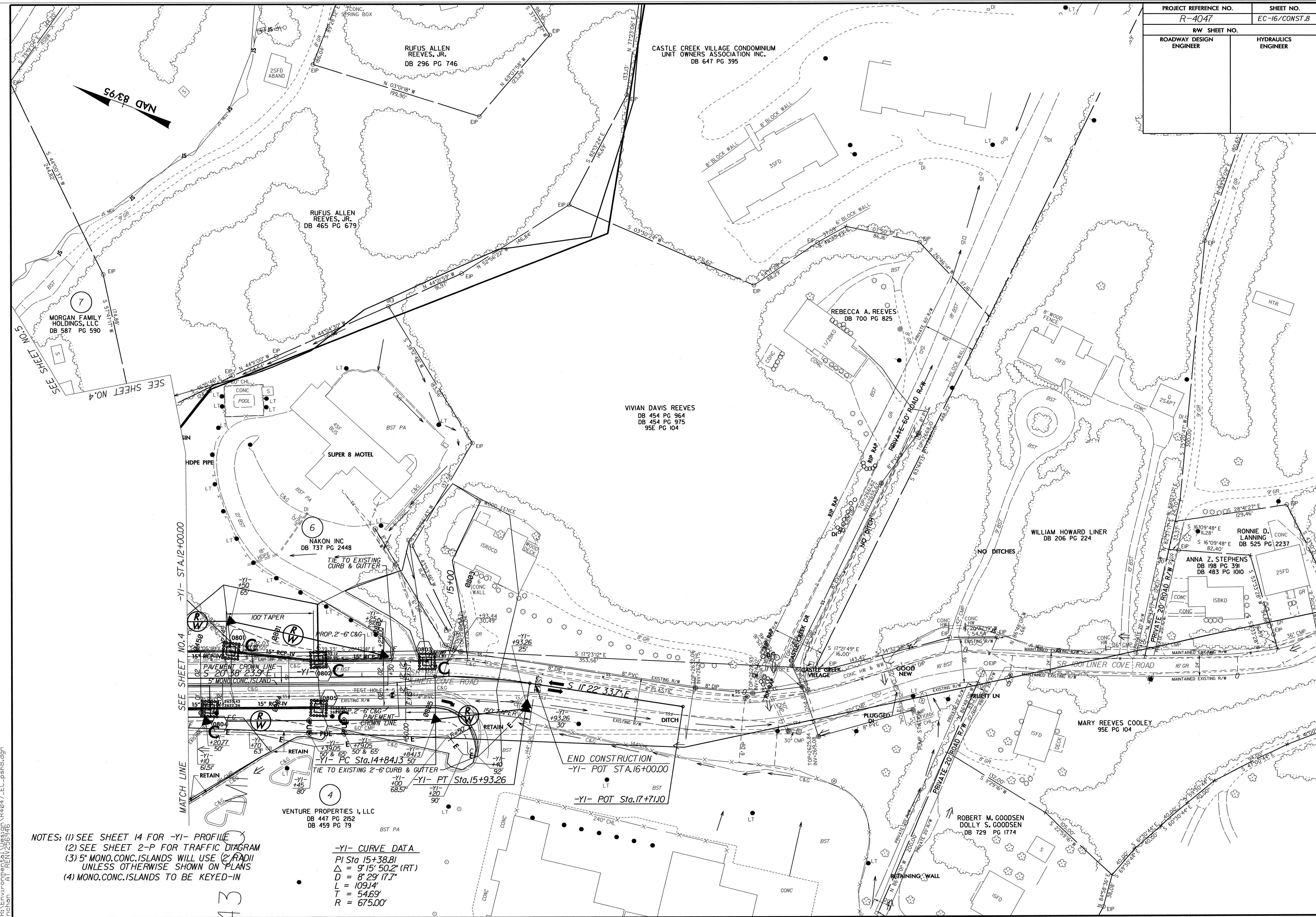
END CONSTRUCTION
-RR- POT STA. 34+50.00

END CONSTRUCTION
TIE TO EXISTING TRACK
-SI- POT STA. 14+00.00

NOTES: (1) SEE SHEET 17 FOR -Y6- PROFILE
(2) SEE SHEETS TW-1 THRU TW-24 FOR TRACKWORK PLANS

06-JAN-2014 11:51
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 AT: RENEY, JAMES
 2569, 26

PROJECT REFERENCE NO.		SHEET NO.	
R-4047		EC-16/CONST.8	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



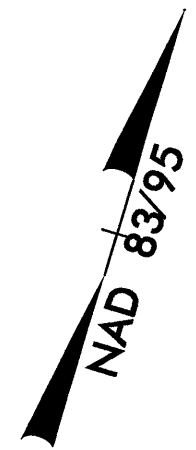
NOTES: (1) SEE SHEET 14 FOR -YI- PROFILE
 (2) SEE SHEET 2-P FOR TRAFFIC DIAGRAM
 (3) 5" MONO.CONC.ISLANDS WILL USE 2" RADII UNLESS OTHERWISE SHOWN ON PLANS
 (4) MONO.CONC.ISLANDS TO BE KEYED-IN

-YI- CURVE DATA
 PI Sta.15+38.81
 $\Delta = 9' 15" 50.2" (RT)$
 $D = 8' 29" 17.7"$
 $L = 109.14'$
 $T = 54.69'$
 $R = 675.00'$

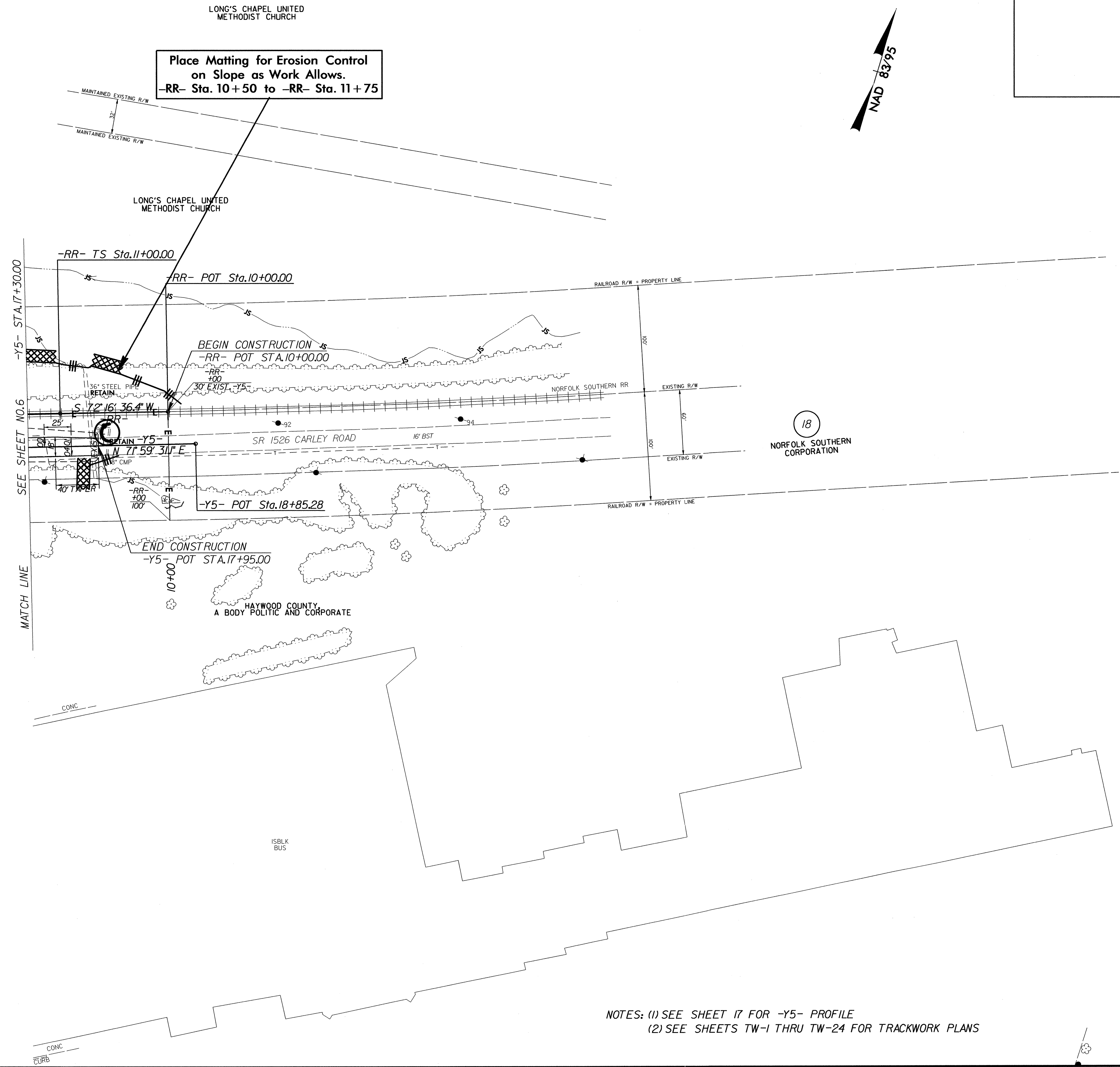
END CONSTRUCTION
 -YI- POT Sta.16+00.00
 -YI- POT Sta.17+71.10

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 mchen AT REN256346

PROJECT REFERENCE NO. R-4047	SHEET NO. EC-17/CONST.9
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



Place Matting for Erosion Control
on Slope as Work Allows.
-RR- Sta. 10+50 to -RR- Sta. 11+75



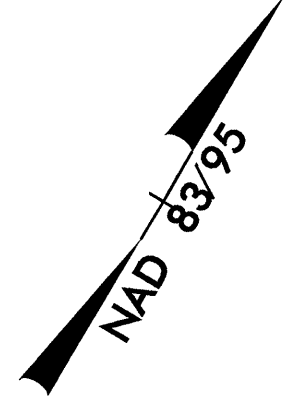
SEE SHEET NO.6
MATCH LINE

NOTES: (1) SEE SHEET 17 FOR -Y5- PROFILE
(2) SEE SHEETS TW-1 THRU TW-24 FOR TRACKWORK PLANS

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mchen

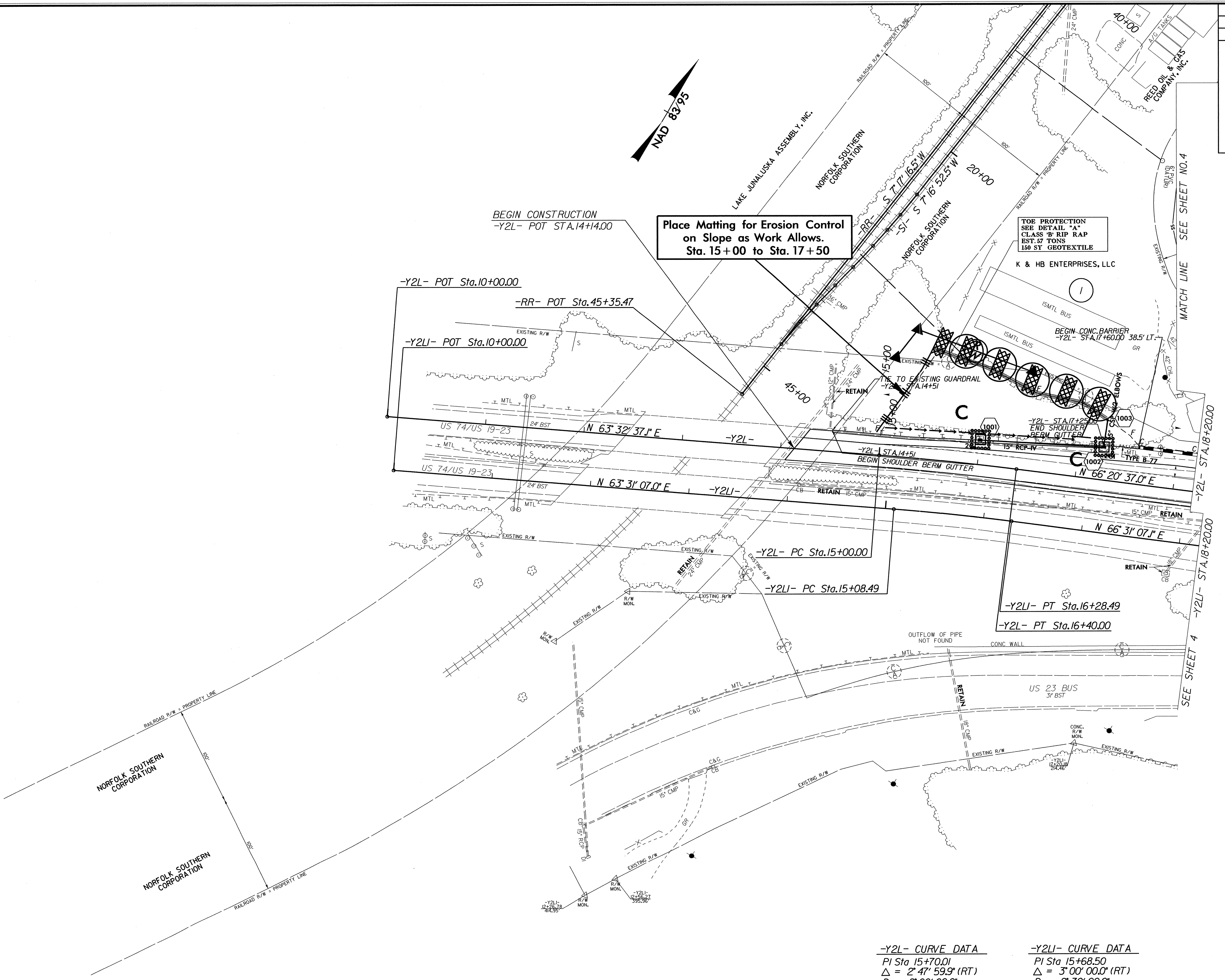
N 04°03'37" W
406.38'

PROJECT REFERENCE NO.		SHEET NO.	
R-4047		EC-18/CONST.10	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



**Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 15+00 to Sta. 17+50**

TOE PROTECTION
SEE DETAIL "A"
CLASS "B" RIP RAP
EST. 57 TONS
150 SY GEOTEXTILE



-Y2L- CURVE DATA
 PI Sta 15+70.01
 $\Delta = 2^\circ 47' 59.9''$ (RT)
 D = 2' 00' 00.0"
 L = 140.00'
 T = 70.01'
 R = 2,864.79'

-Y2LI- CURVE DATA
 PI Sta 15+68.50
 $\Delta = 3^\circ 00' 00.0''$ (RT)
 D = 2' 30' 00.0"
 L = 120.00'
 T = 60.01'
 R = 2,291.83'

NOTES: (1) SEE SHEET 18 FOR -Y2L- EXISTING PROFILE
 (2) SEE SHEET 2-M FOR DRAINAGE DETAILS

06-JAN-2014 11:57
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 nchan AT REN256946