

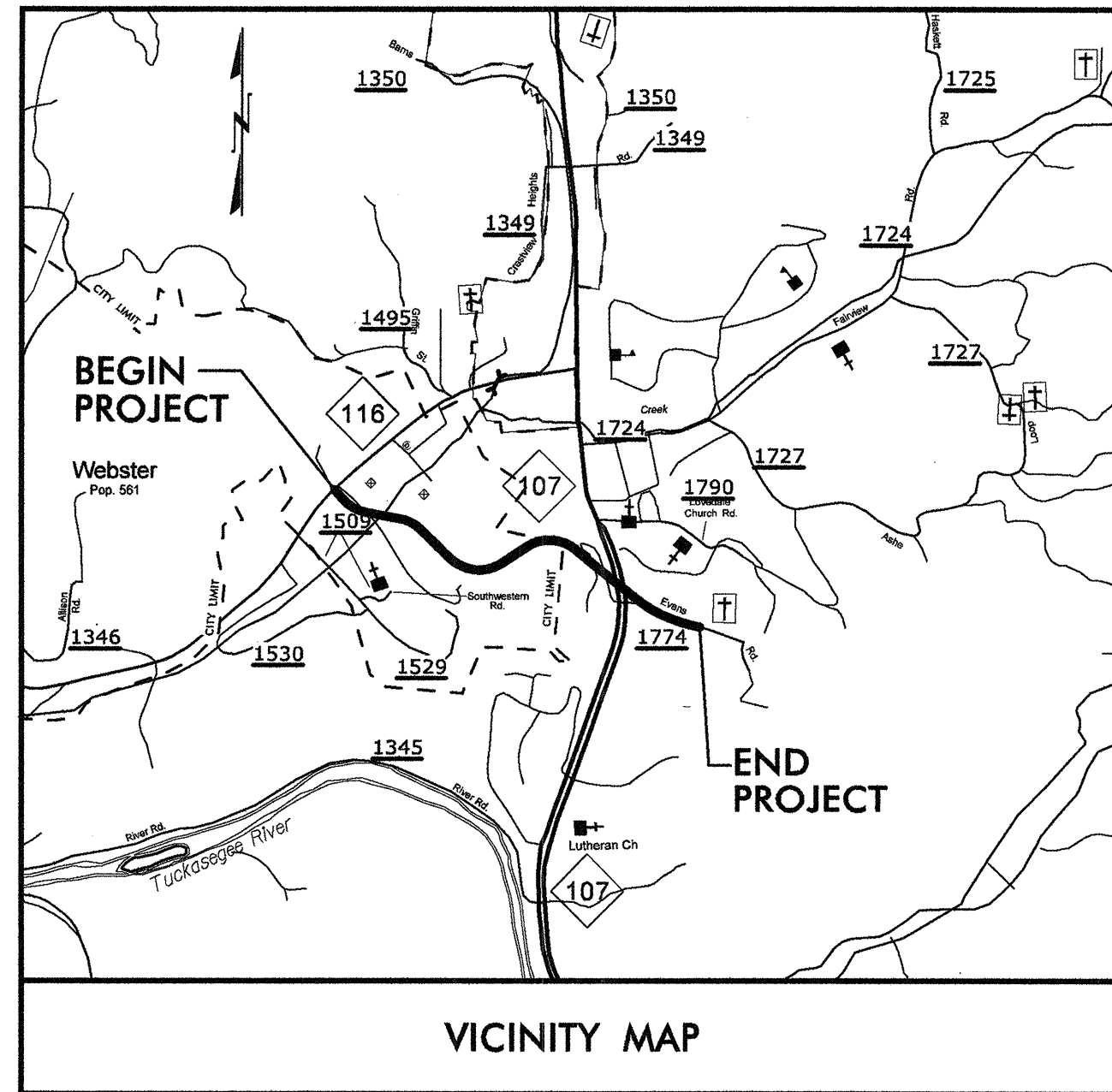
**TIP PROJECT: R-5000**

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

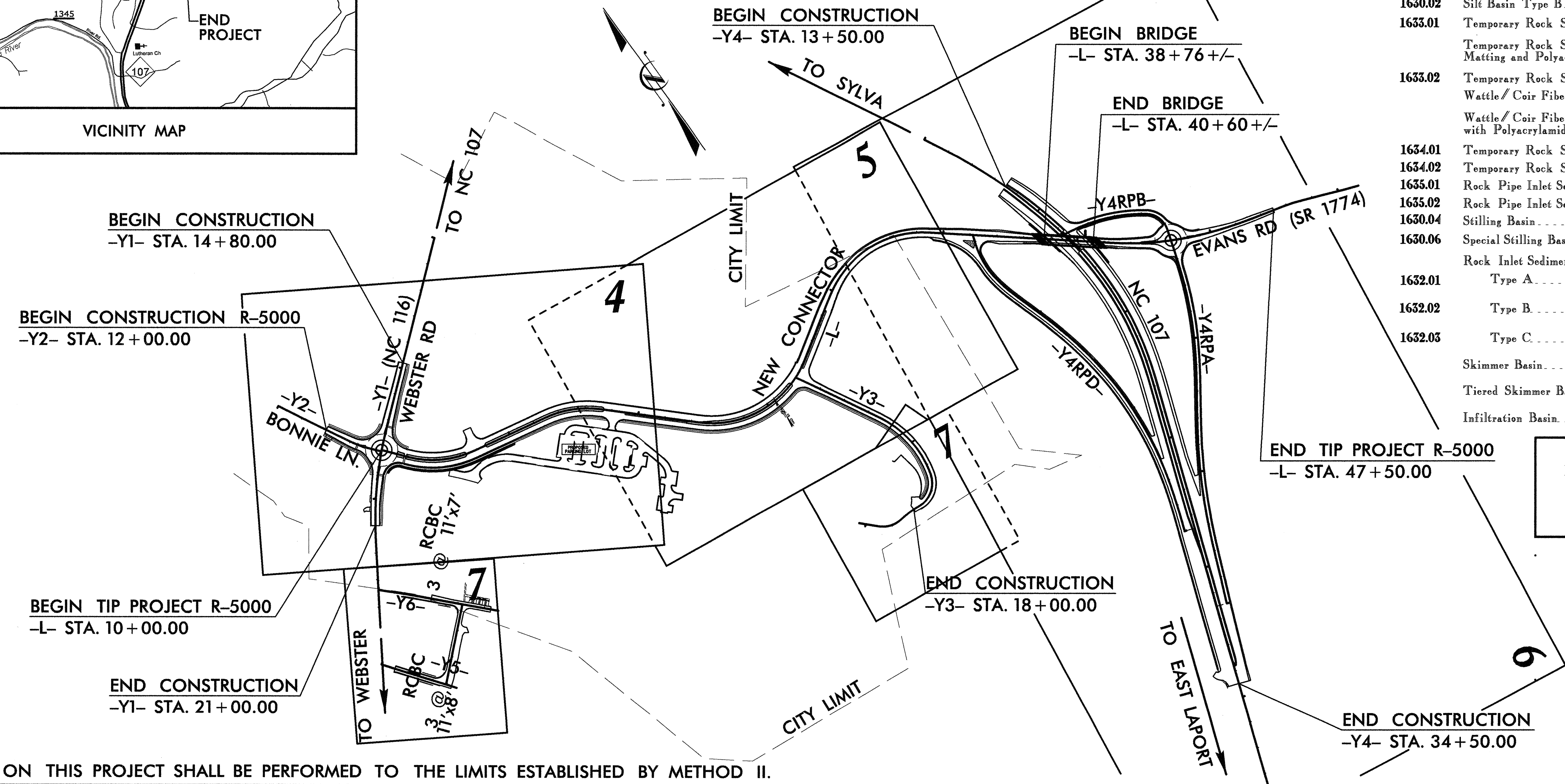
PLAN FOR PROPOSED  
HIGHWAY EROSION CONTROL

**JACKSON COUNTY**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5000	EC-1	
STATE PROJ. NO.	P.A. PROJ. NO.	DESCRIPTION	
41156.1.1		P.E.	
41156.2.1		RW /UTIL.	



**LOCATION: NEW LOCATION CONNECTOR ROAD FROM NC 116 TO EAST OF NC 107**  
**TYPE OF WORK: GRADING, DRAINAGE, PAVING, CURB & GUTTER, AND STRUCTURE**

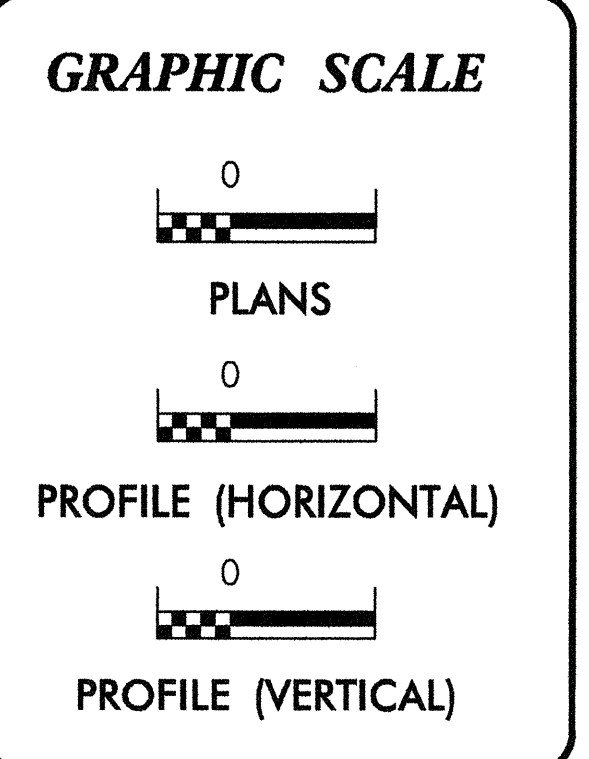


**EROSION AND SEDIMENT CONTROL MEASURES**

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	---
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	---X---
1622.01	Temporary Berms and Slope Drains	---X---
1630.02	Silt Basin Type B	---X---
1633.01	Temporary Rock Silt Check Type-A	---X---
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	---X---
1633.02	Temporary Rock Silt Check Type-B	---X---
	Wattle/Coir Fiber Wattle	---X---
	Wattle/Coir Fiber Wattle with Polyacrylamide (PAM)	---X---
1634.01	Temporary Rock Sediment Dam Type-A	---X---
1634.02	Temporary Rock Sediment Dam Type-B	---X---
1635.01	Rock Pipe Inlet Sediment Trap Type-A	---X---
1635.02	Rock Pipe Inlet Sediment Trap Type-B	---X---
1630.04	Stilling Basin	---X---
1630.06	Special Stilling Basin	---X---
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	---X---
	Tiered Skimmer Basin	---X---
	Infiltration Basin	---X---

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

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.



ROADSIDE ENVIRONMENTAL UNIT  
DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

**PROJECT LENGTH**

LENGTH ROADWAY TIP PROJECT R-5000 = 0.671 MILES  
LENGTH STRUCTURE TIP PROJECT R-5000 = 0.039 MILES  
TOTAL LENGTH TIP PROJECT R-5000 = 0.710 MILES

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:  
**Mulkey Engineers & Consultants**  
FOR THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

**MATTHEW HARVEY**  
MULKEY E & C  
ENGINEER

LEVEL III-A CERTIFICATION No.: 412

**2012 STANDARD SPECIFICATIONS**

Roadway Standard Drawings

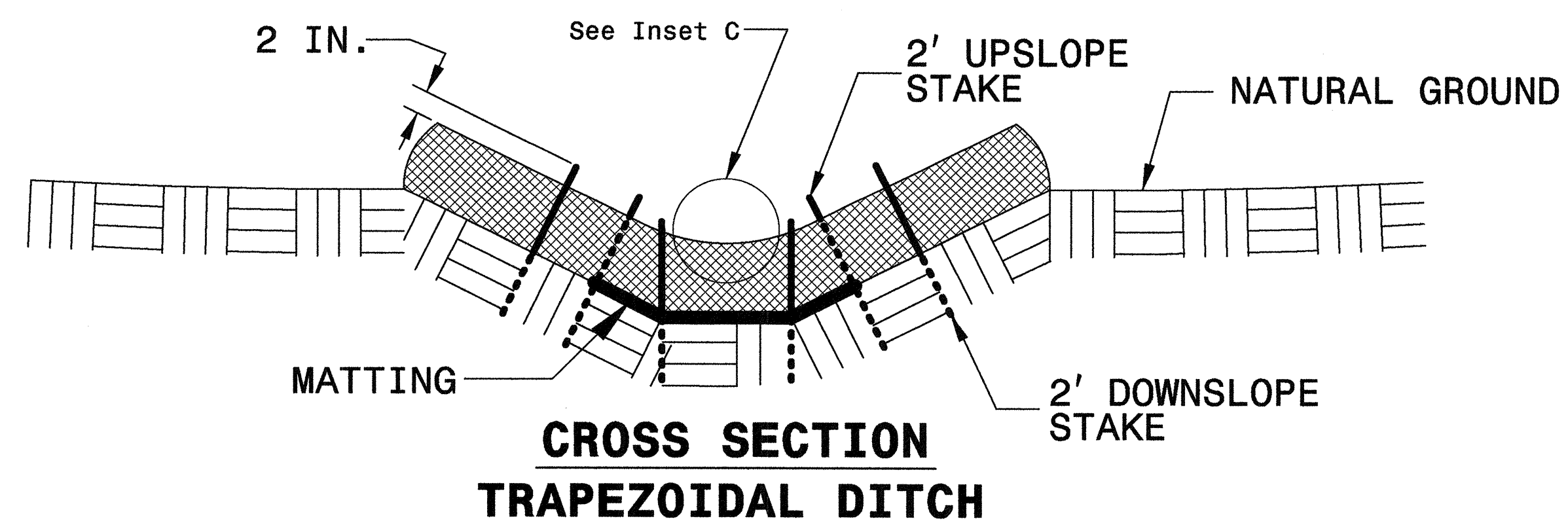
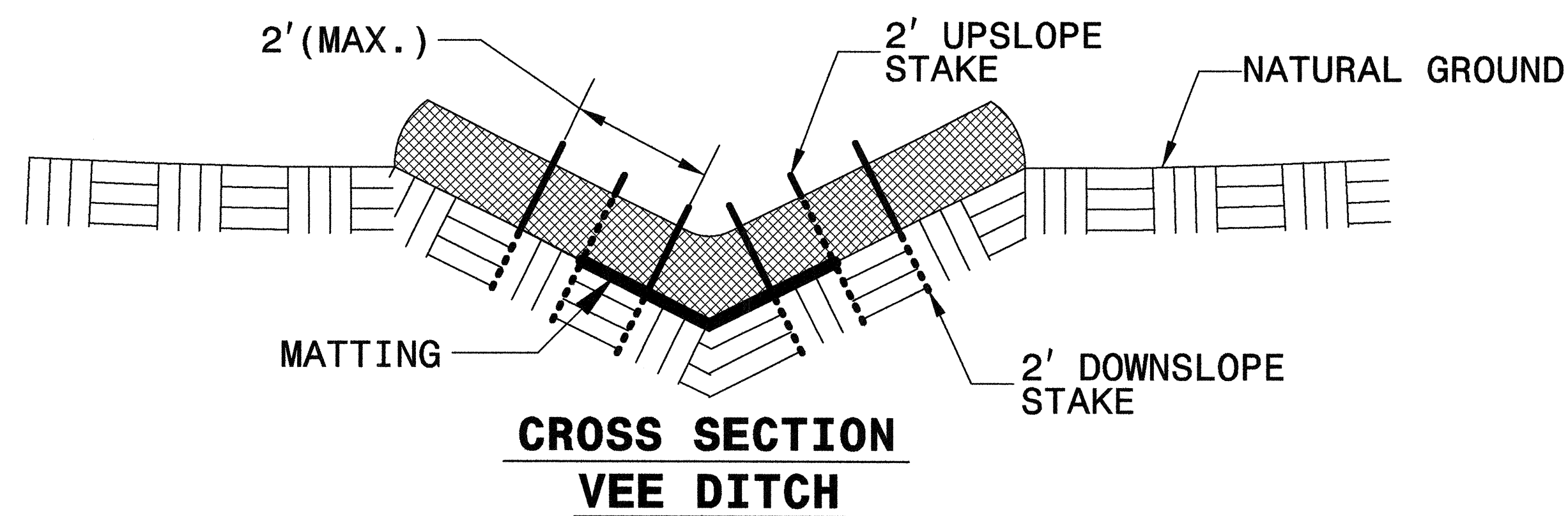
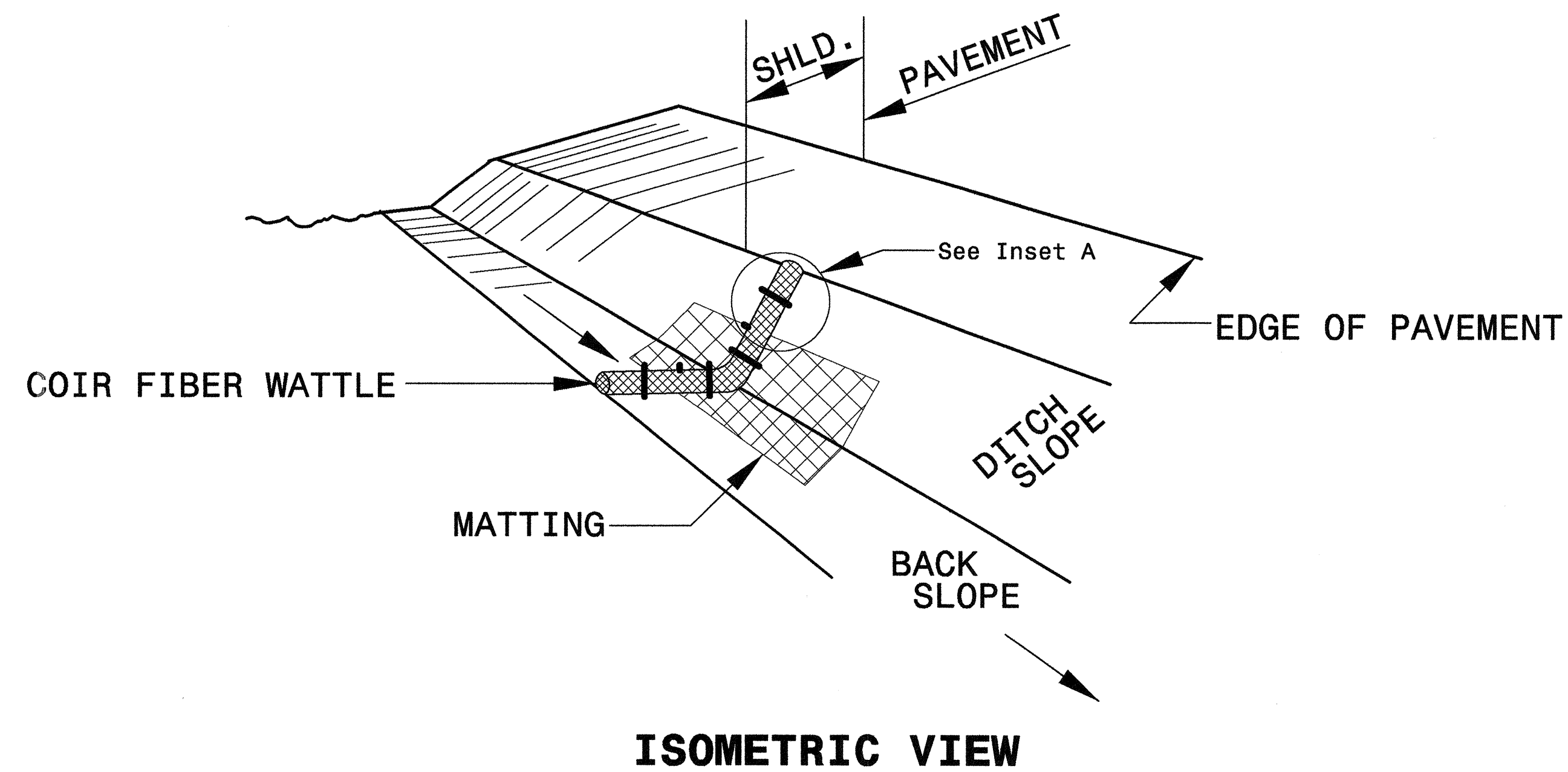
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2012 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

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	

HydraCAD 2012  
1/15/2012 10:25 AM  
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PROJECT REFERENCE NO.		SHEET NO.	
R-5000		EC-2	
R/W 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.

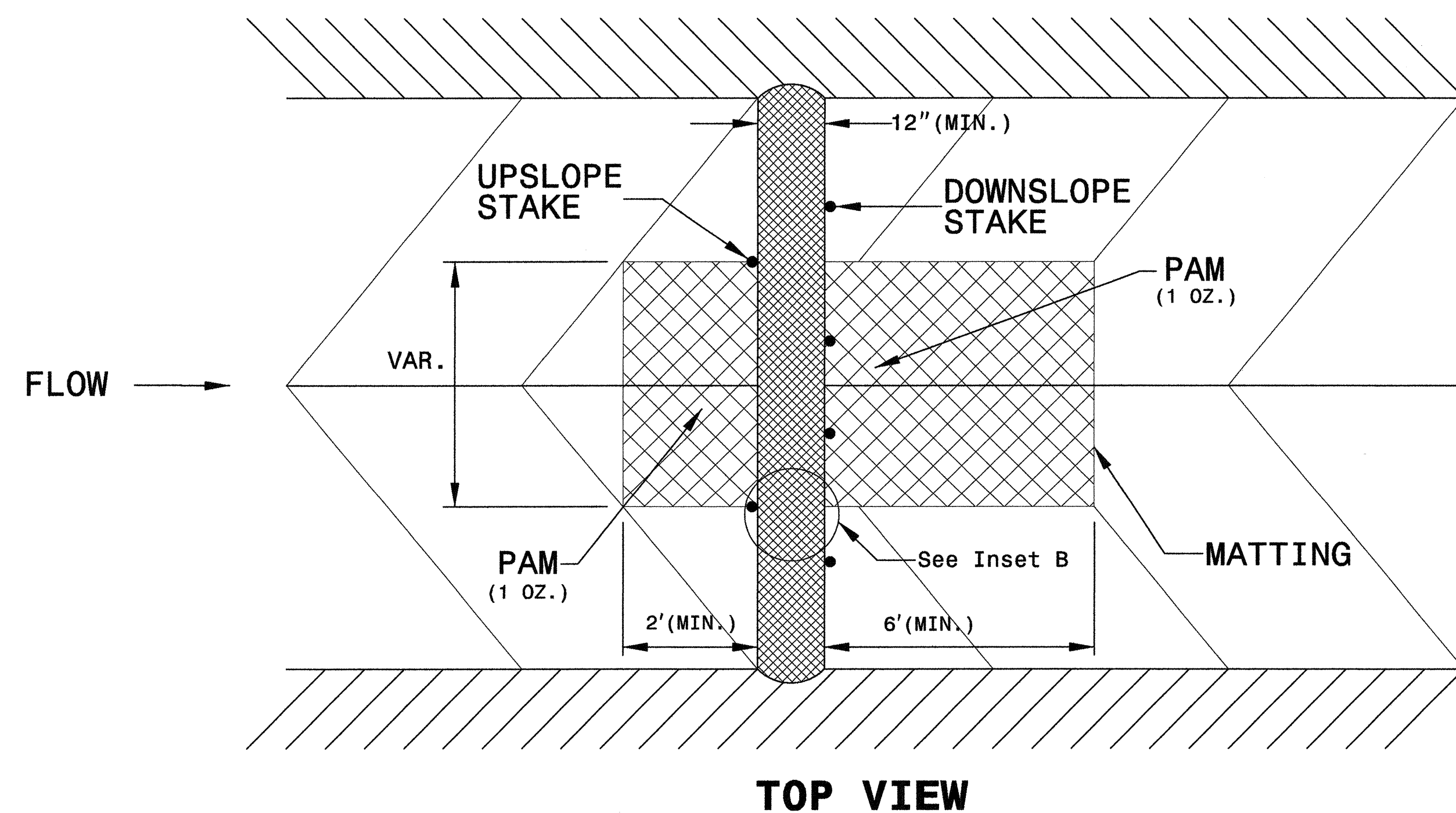
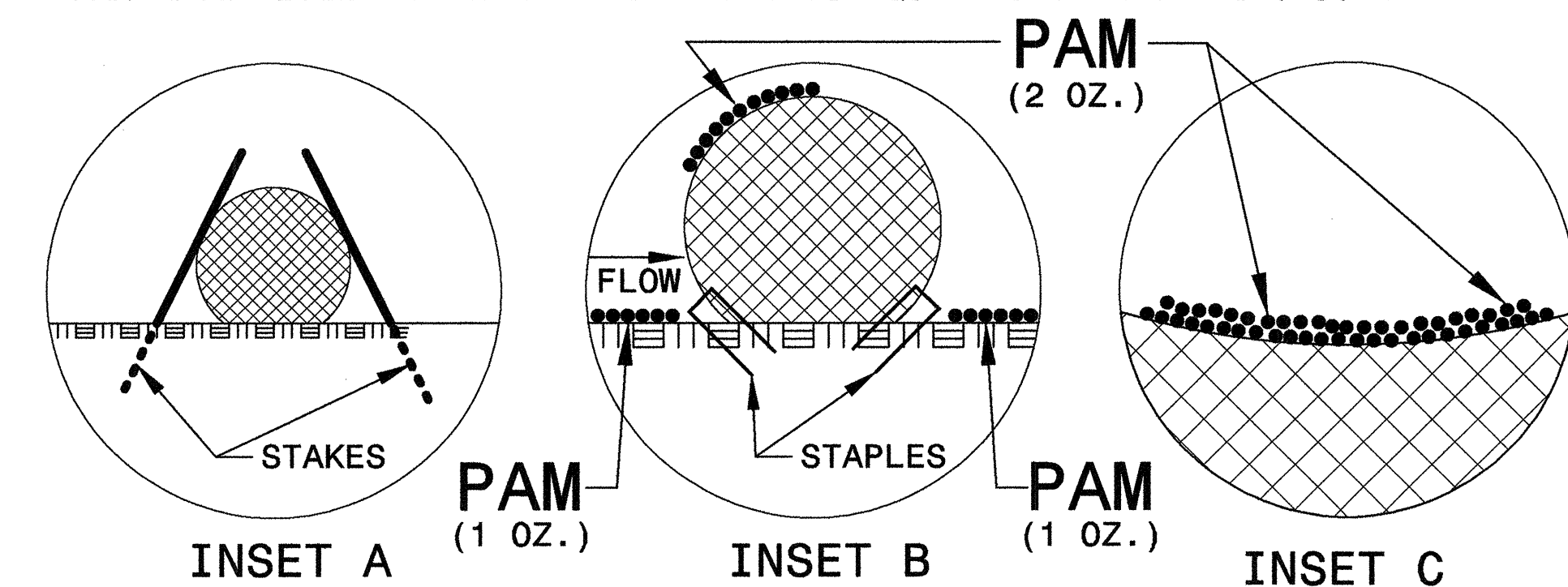
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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.

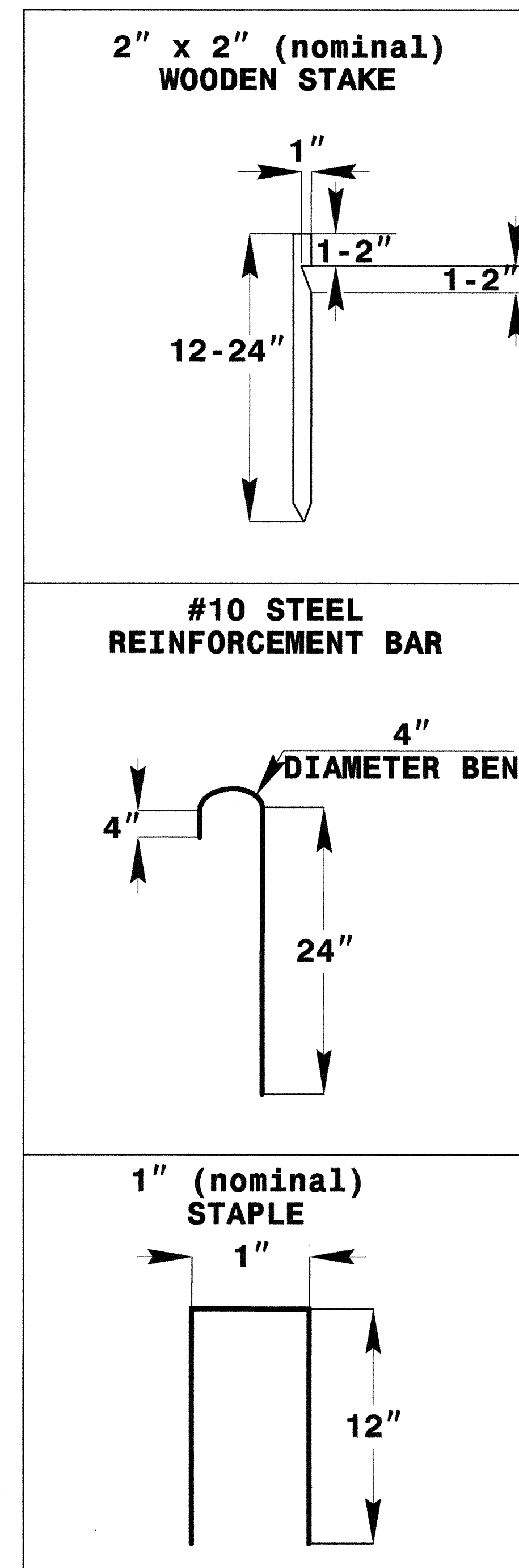
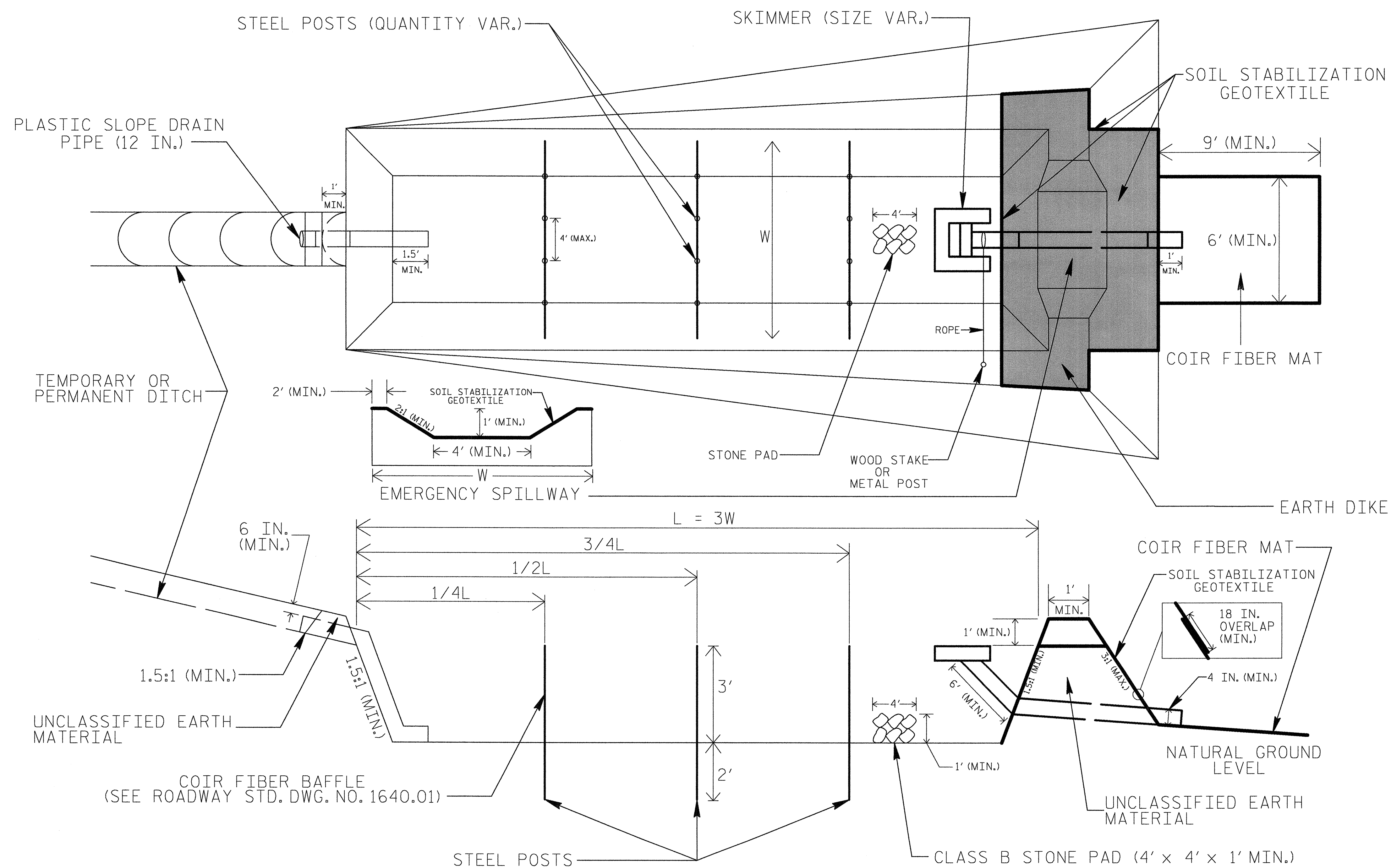
PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

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. R-5000	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# SKIMMER BASIN WITH BAFFLES DETAIL



## COIR FIBER MAT ANCHOR OPTIONS

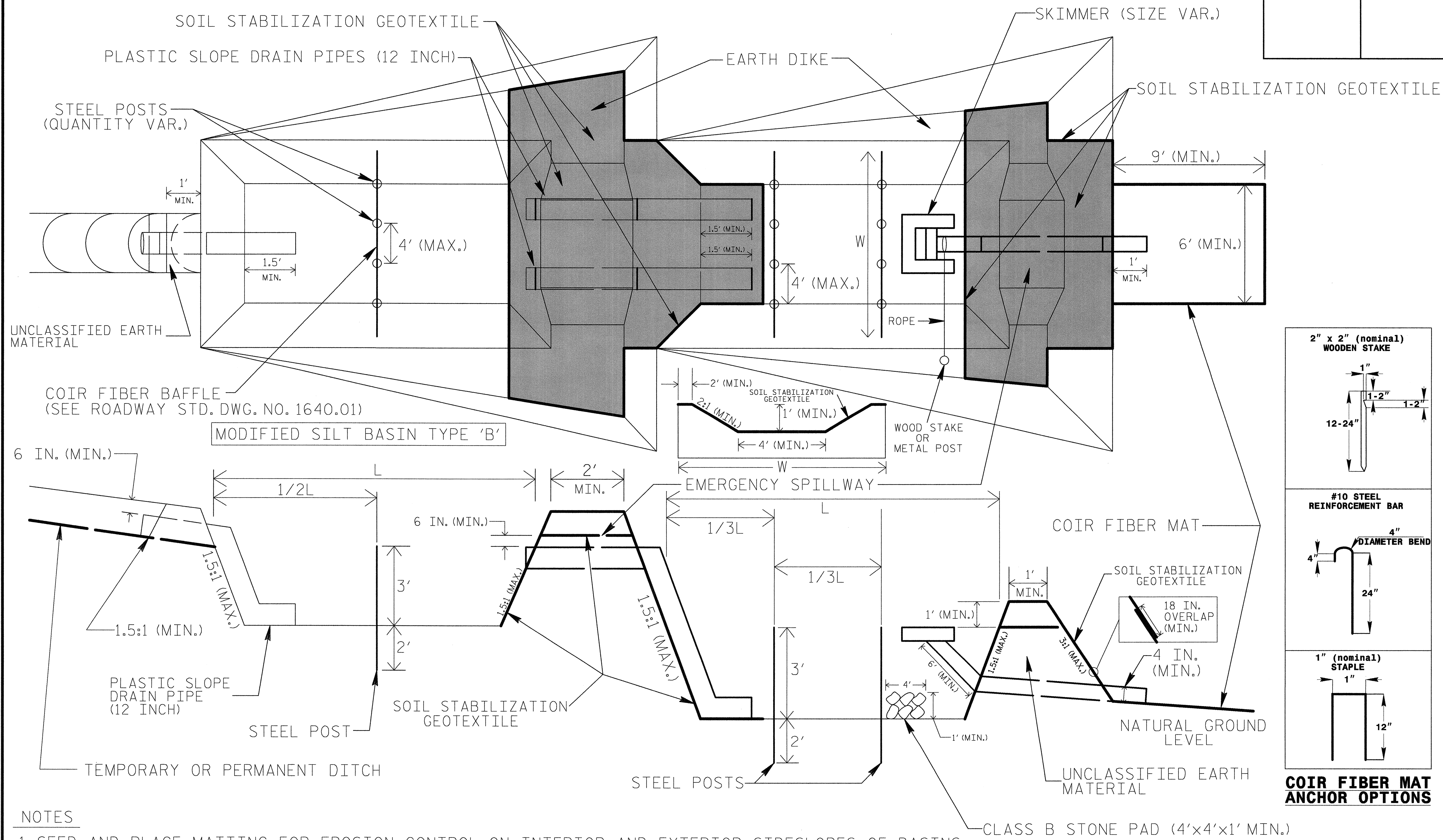
### NOTES

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

NOT TO SCALE

# TIERED SKIMMER BASIN DETAIL

PROJECT REFERENCE NO. R-5000	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



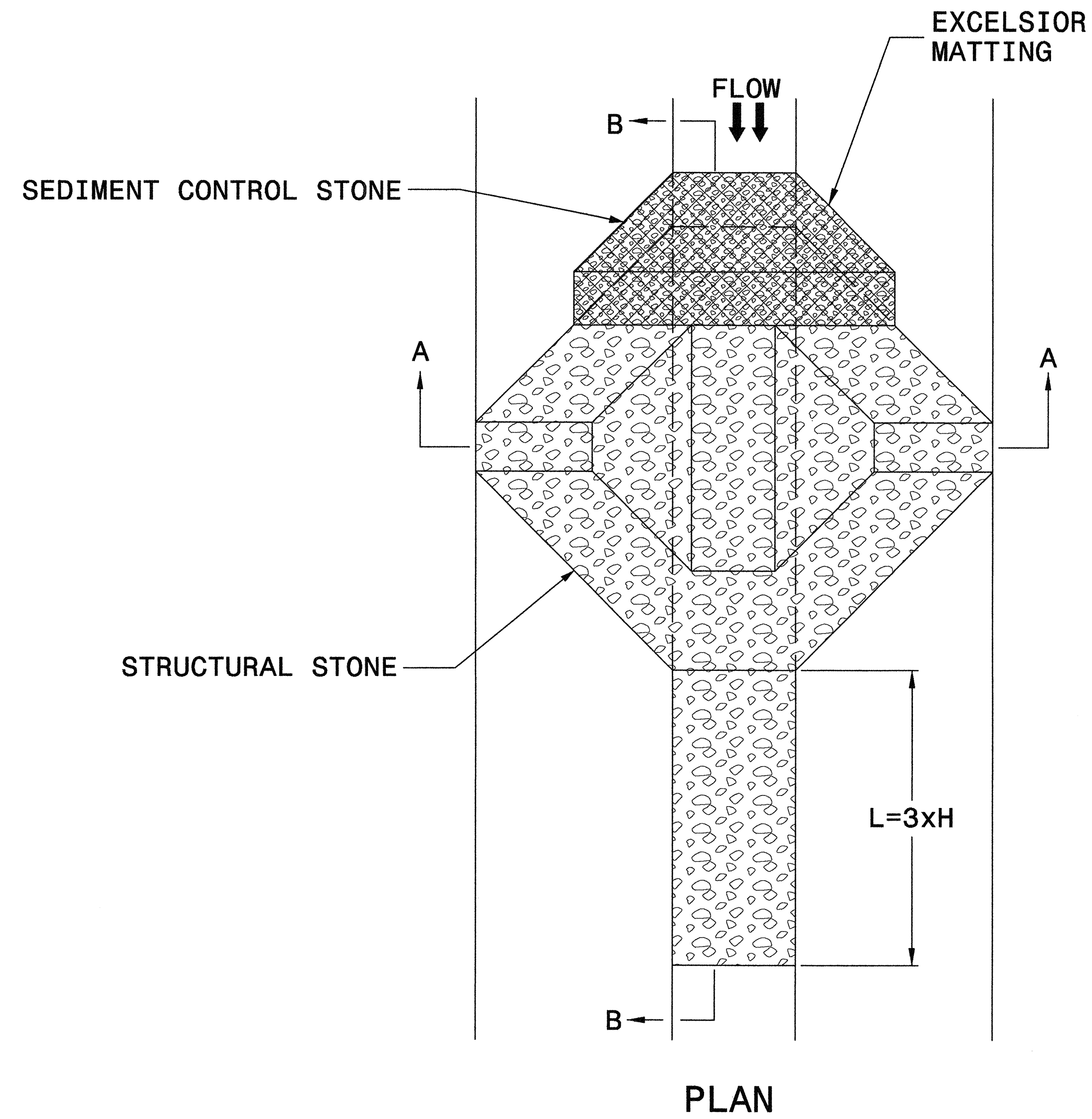
## NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES OF BASINS.
2. LIMIT HEIGHT OF EARTH DIKES TO 5 FT.
3. ADDITIONAL MODIFIED SILT BASINS TYPE 'B' MAY BE NEEDED DEPENDING ON SLOPE.
4. FOR BASIN DEPTHS OF 3FT., THE MINIMUM BASIN WIDTHS SHALL BE 9 FT.
5. DETERMINE EMERGENCY SPILLWAY LENGTHS (FT.) USING  $Q/0.8$ , WHERE Q IS FLOW RATE (CFS) INTO UPPER BASIN.
6. SOIL STABILIZATION GEOTEXTILE FOR EMERGENCY SPILLWAYS SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
R-5000	EC-2C
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

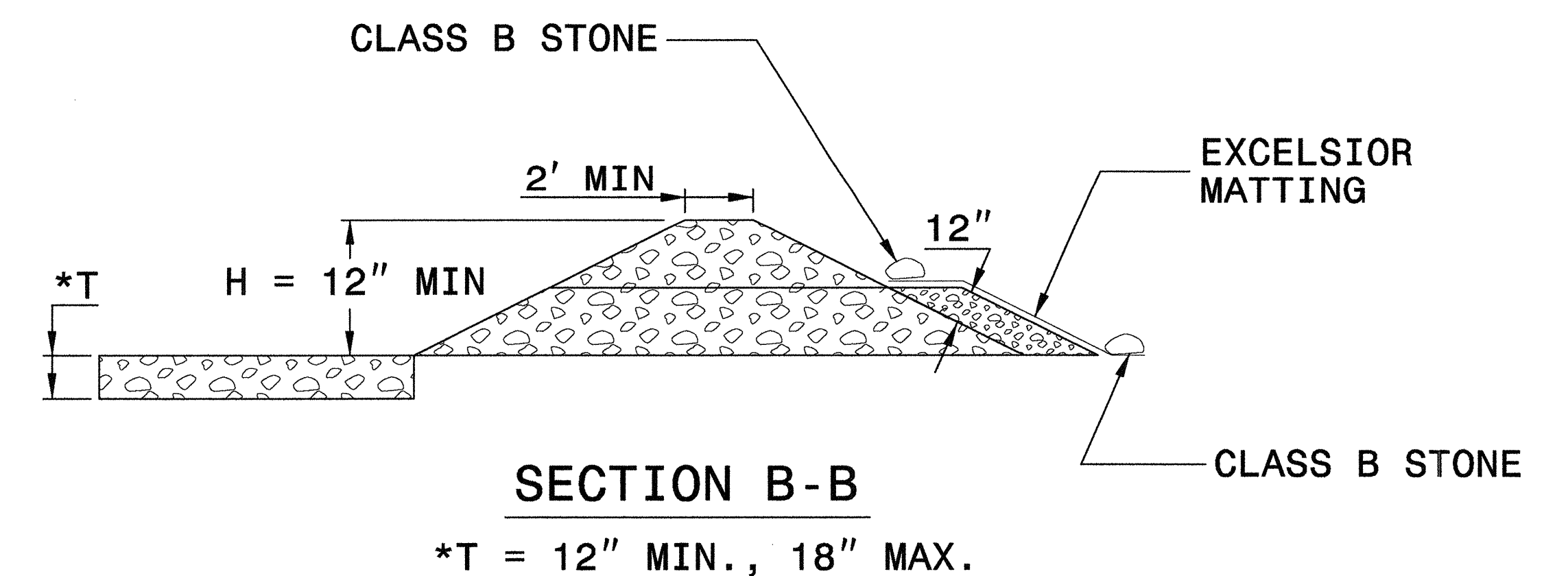
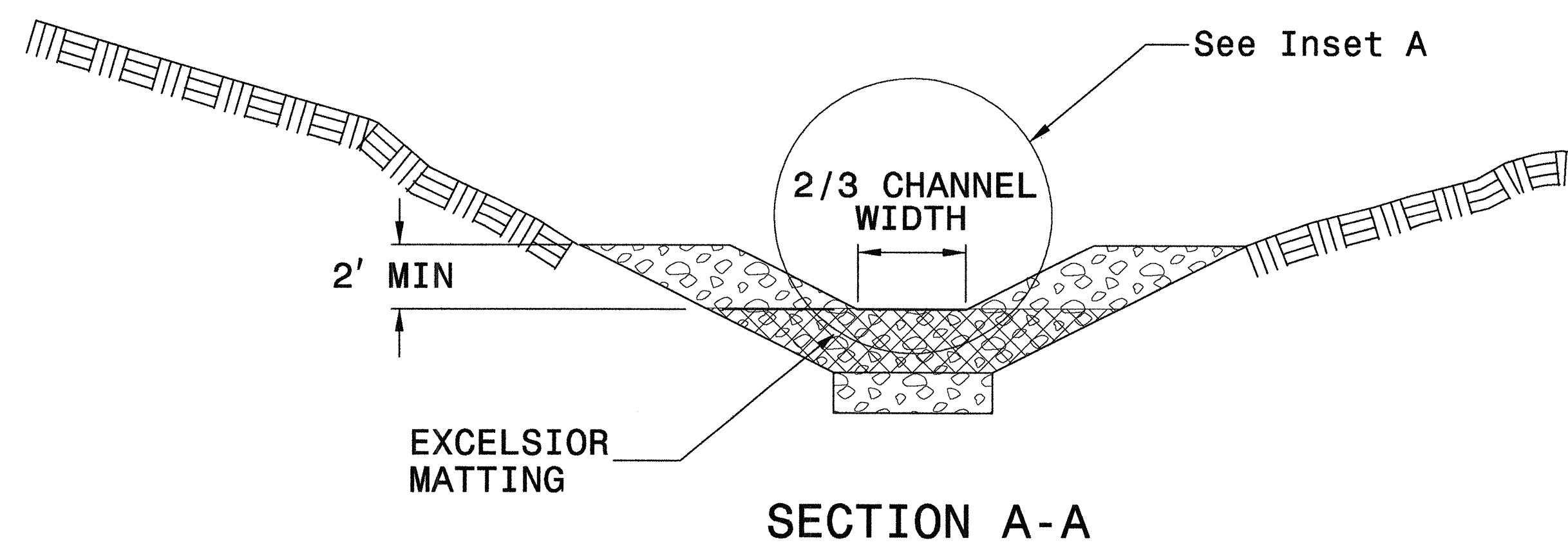
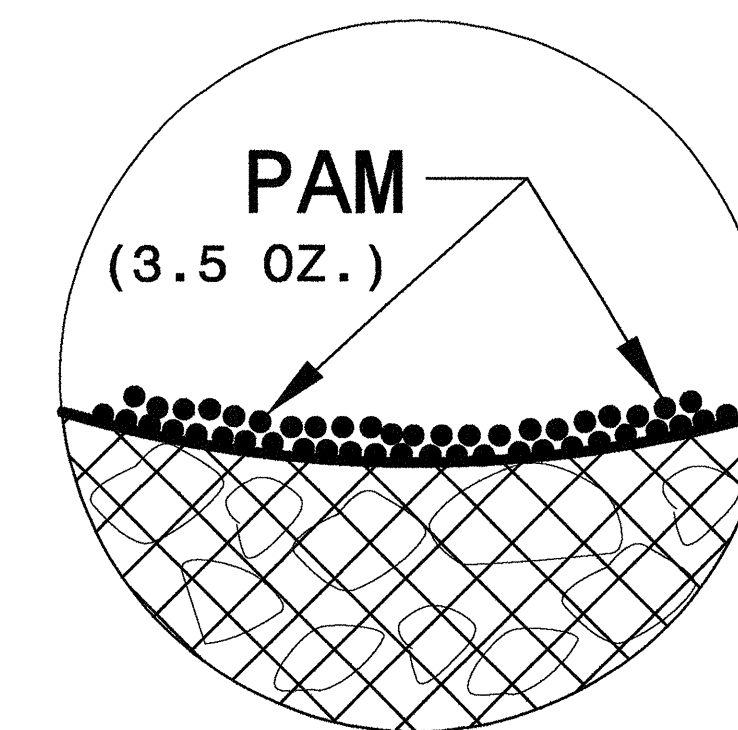


## NOTES

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

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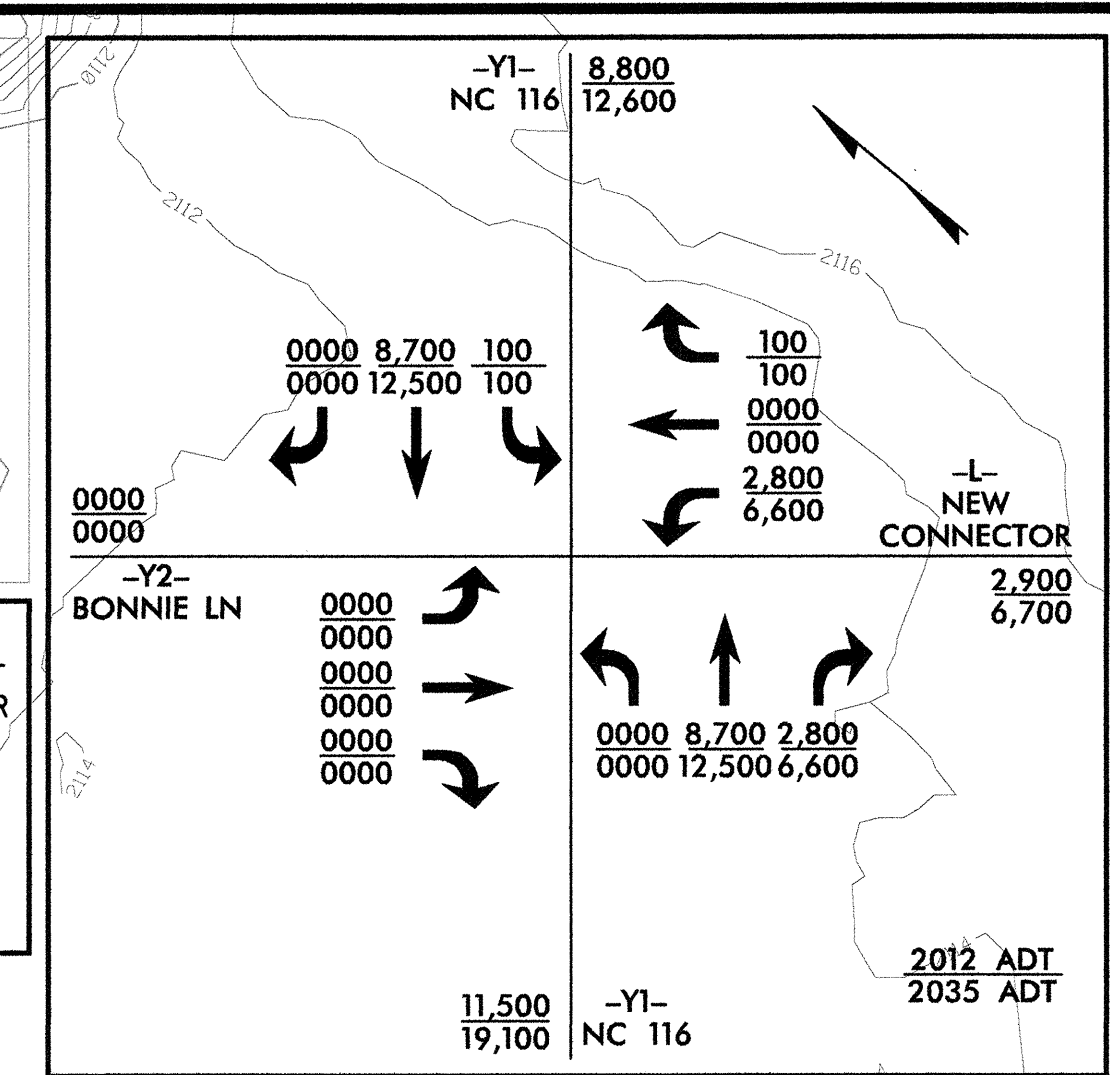


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PROJECT REFERENCE NO. <i>R-5000</i>	SHEET NO. <i>EC-3A</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

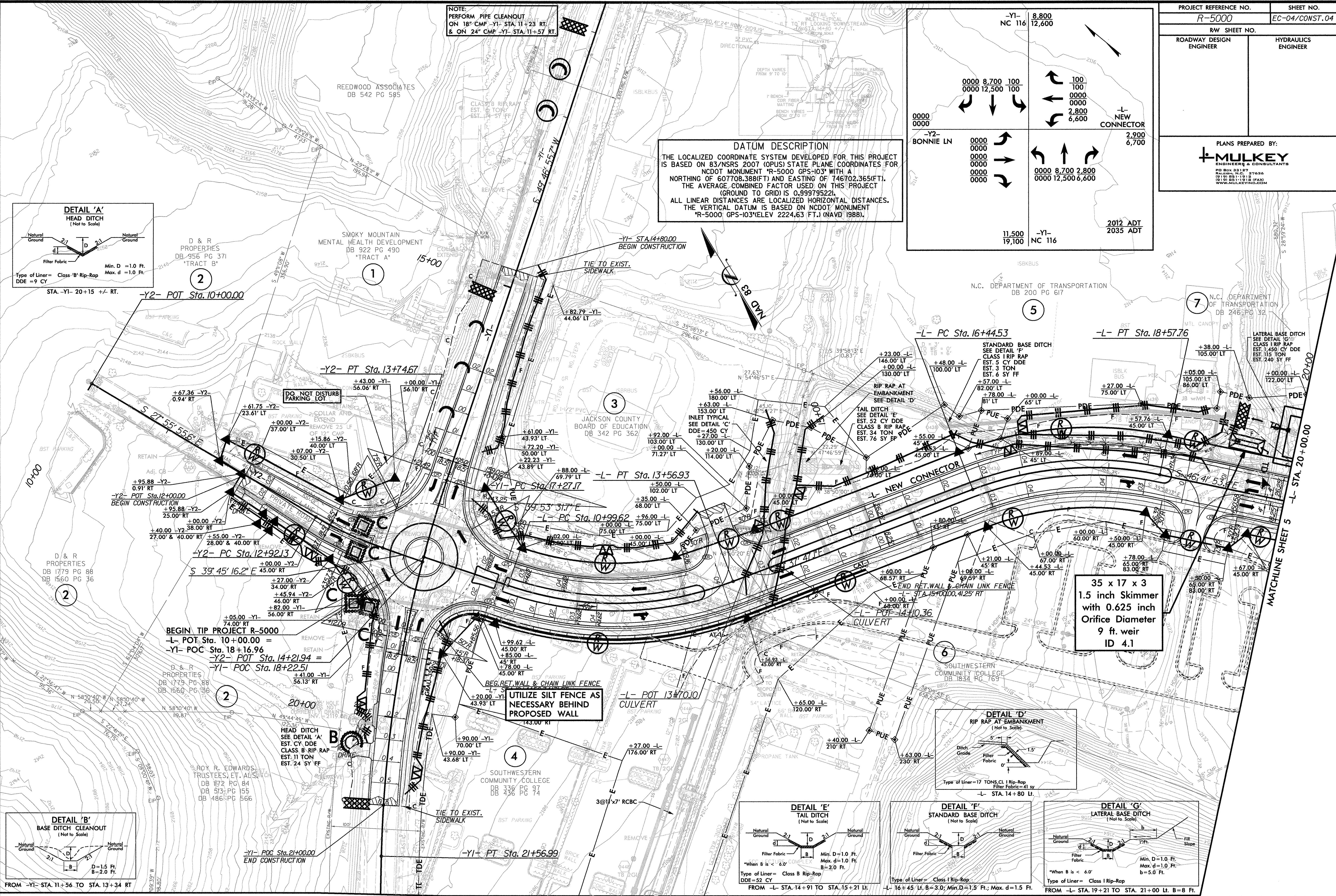
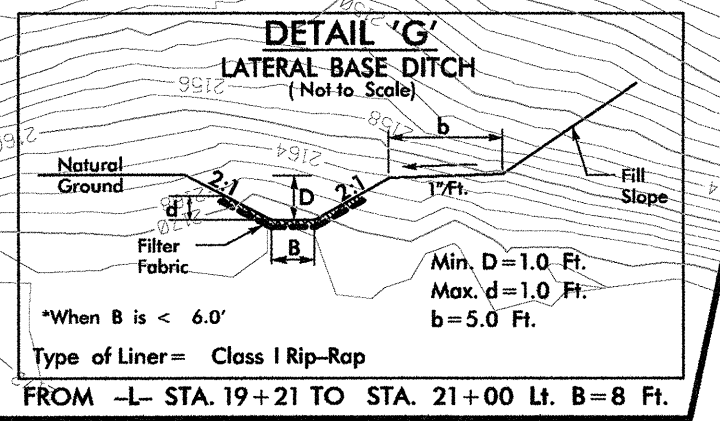
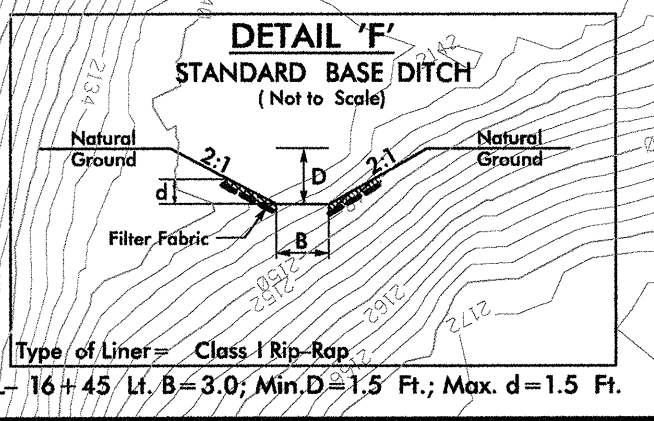
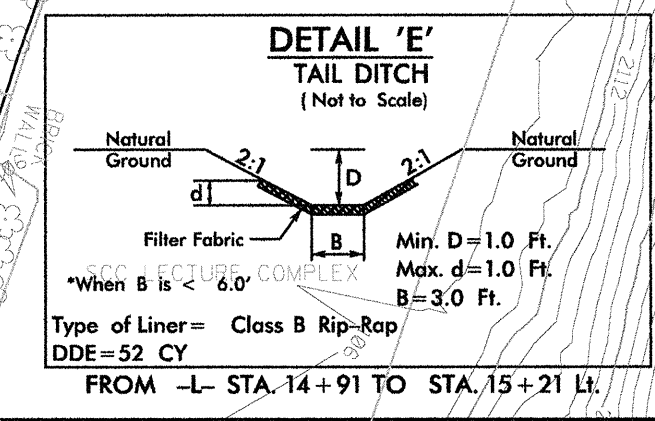
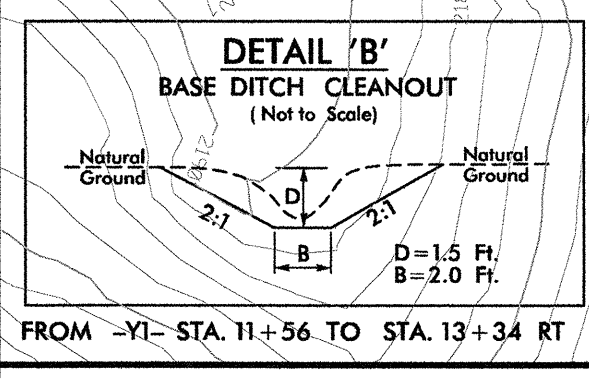
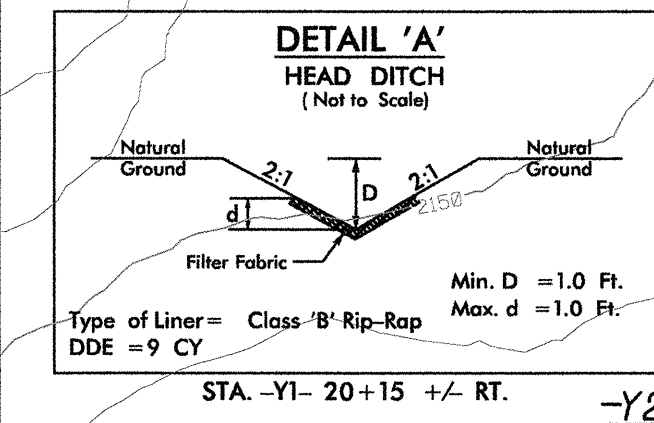
## ***SOIL STABILIZATION TIMEFRAMES***

<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.



**DATUM DESCRIPTION**  
 THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON 83/NSRS 2007 (OPUS) STATE PLANE COORDINATES FOR NCDOT MONUMENT "R-5000 GPS-103" WITH A NORTHING OF 607708.388(FT) AND EASTING OF 746702.365(FT). THE AVERAGE COMBINED FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS 0.999795221. ALL LINEAR DISTANCES ARE LOCALIZED HORIZONTAL DISTANCES. THE VERTICAL DATUM IS BASED ON NCDOT MONUMENT "R-5000, GPS-103"(ELEV 2224.63 FT.) (NAVD 1988).

**NOTE:**  
 PERFORM PIPE CLEANOUT ON 18" CMP -Y1- STA. 11+23 RT. & ON 24" CMP -Y1- STA. 11+57 RT.



8/17/99  
 8/29/2012  
 C:\Users\pml\Documents\Projects\2012\115000\EC-04.dgn  
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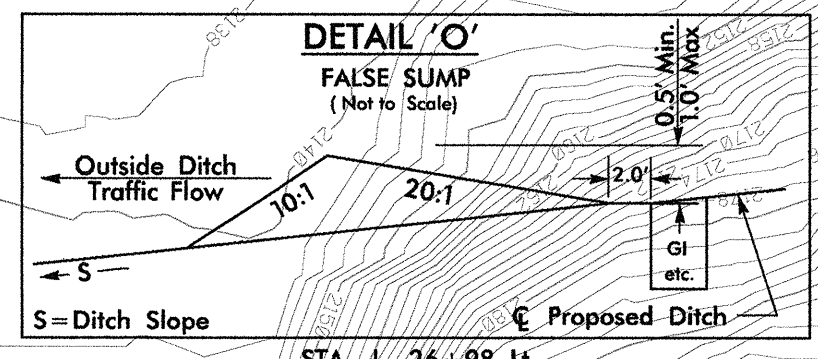
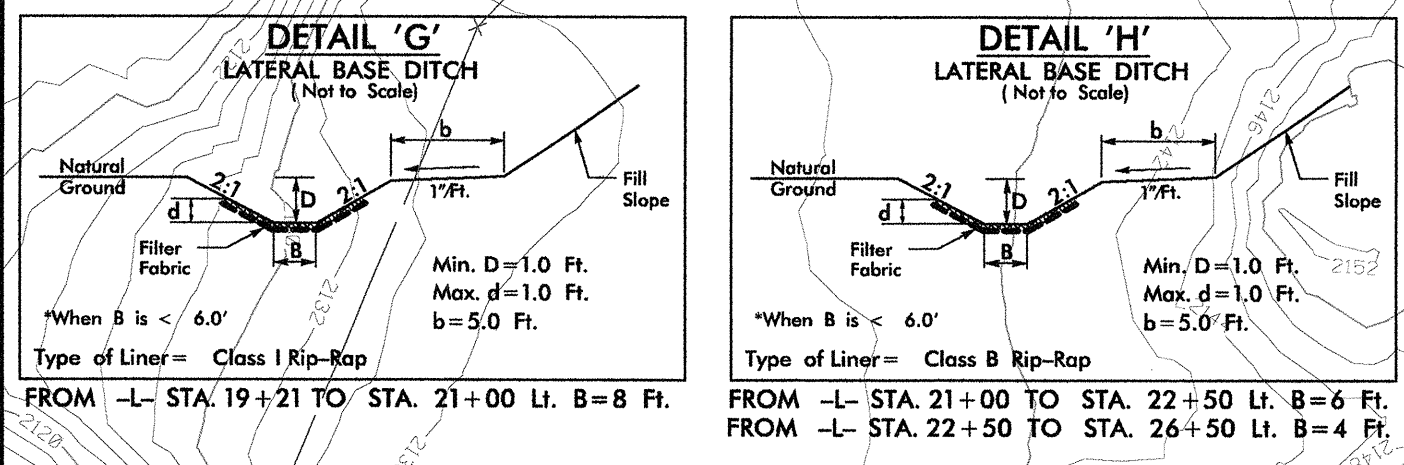
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 FOR -Y1- PROFILE SEE SHEET 9  
 FOR -Y2- PROFILE SEE SHEET 9  
 FOR ISLAND DIMENSIONS & DETAILS SEE SHEET 2-C



PROJECT REFERENCE NO. <b>R-5000</b>		SHEET NO. <b>EC-05/CONST. 05</b>	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PLANS PREPARED BY: <b>MULKEY ENGINEERS &amp; CONSULTANTS</b> <small>PO Box 33187 Raleigh, N.C. 27636 919 851-1911 919 851-1818 FAX WWW.MULKEYING.COM</small>			

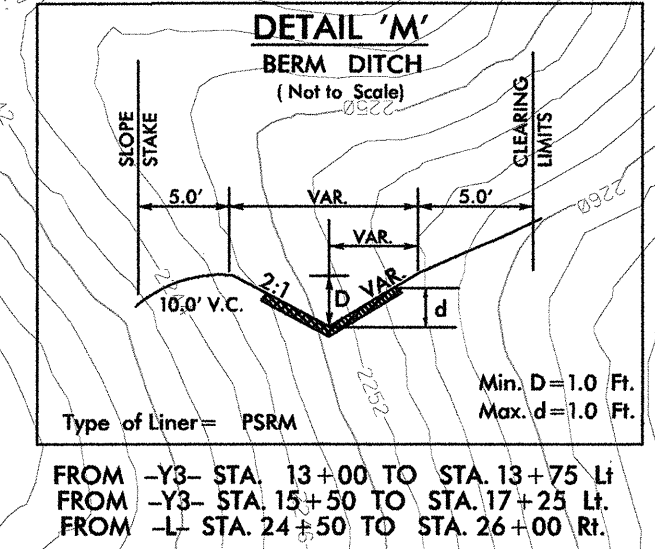
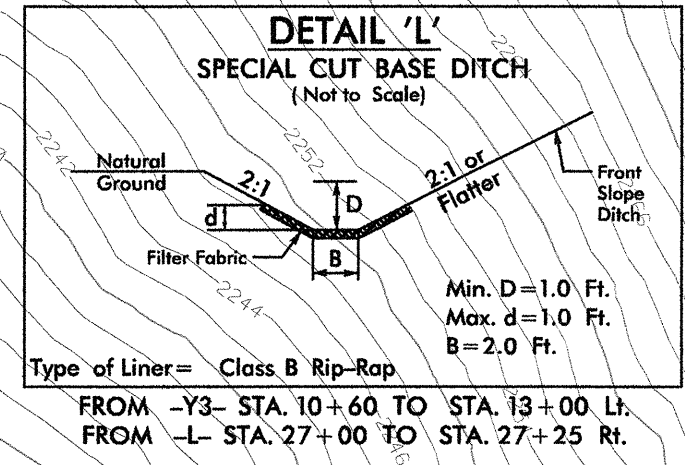
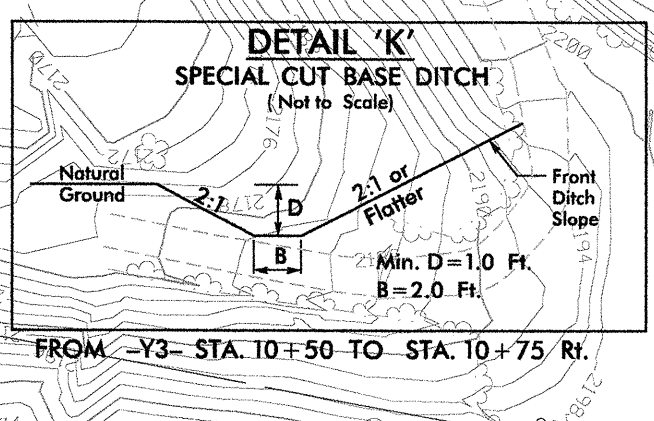
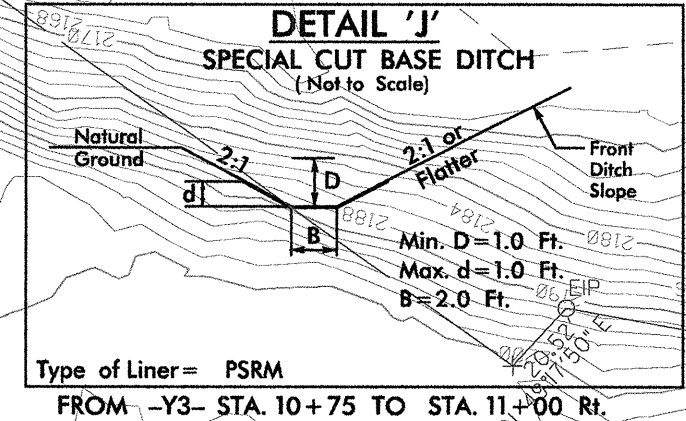
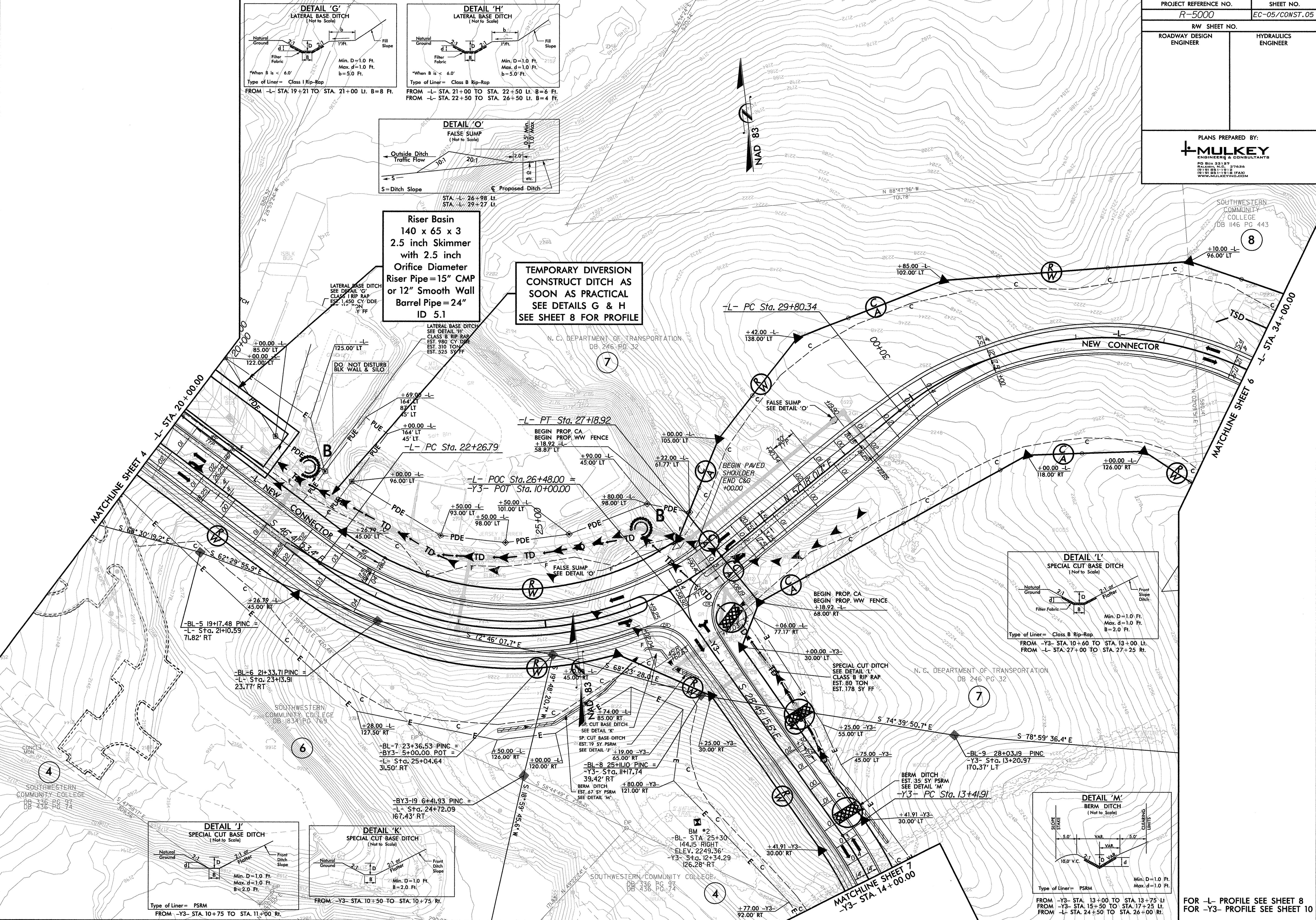
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 SOUTHWESTERN COMMUNITY COLLEGE DB 436 PG 97  
 SOUTHWESTERN COMMUNITY COLLEGE DB 436 PG 97  
 SOUTHWESTERN COMMUNITY COLLEGE DB 436 PG 97

REVISIONS



**Riser Basin**  
 140 x 65 x 3  
 2.5 inch Skimmer  
 with 2.5 inch  
 Orifice Diameter  
 Riser Pipe=15" CMP  
 or 12" Smooth Wall  
 Barrel Pipe=24"  
 ID 5.1

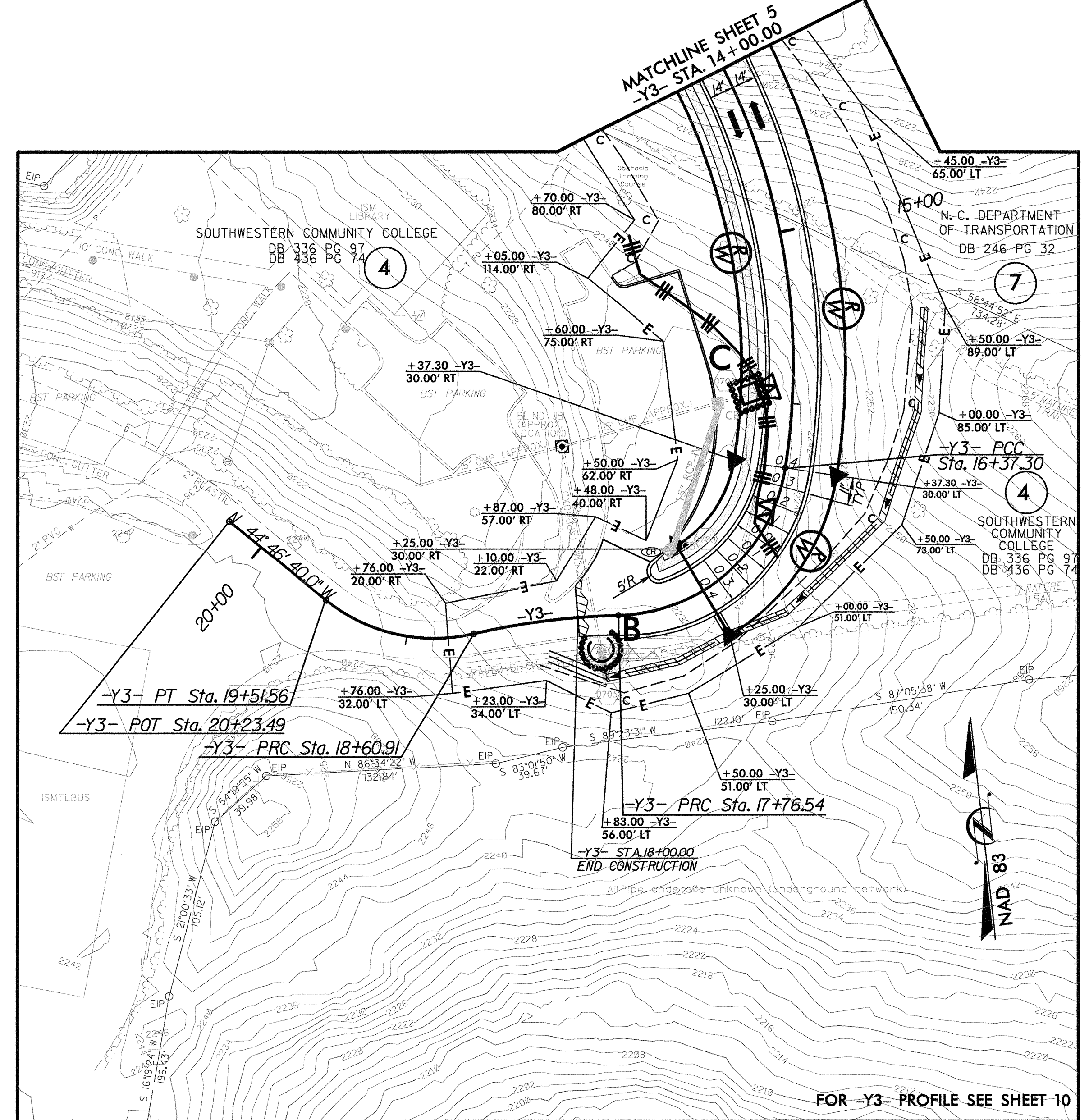
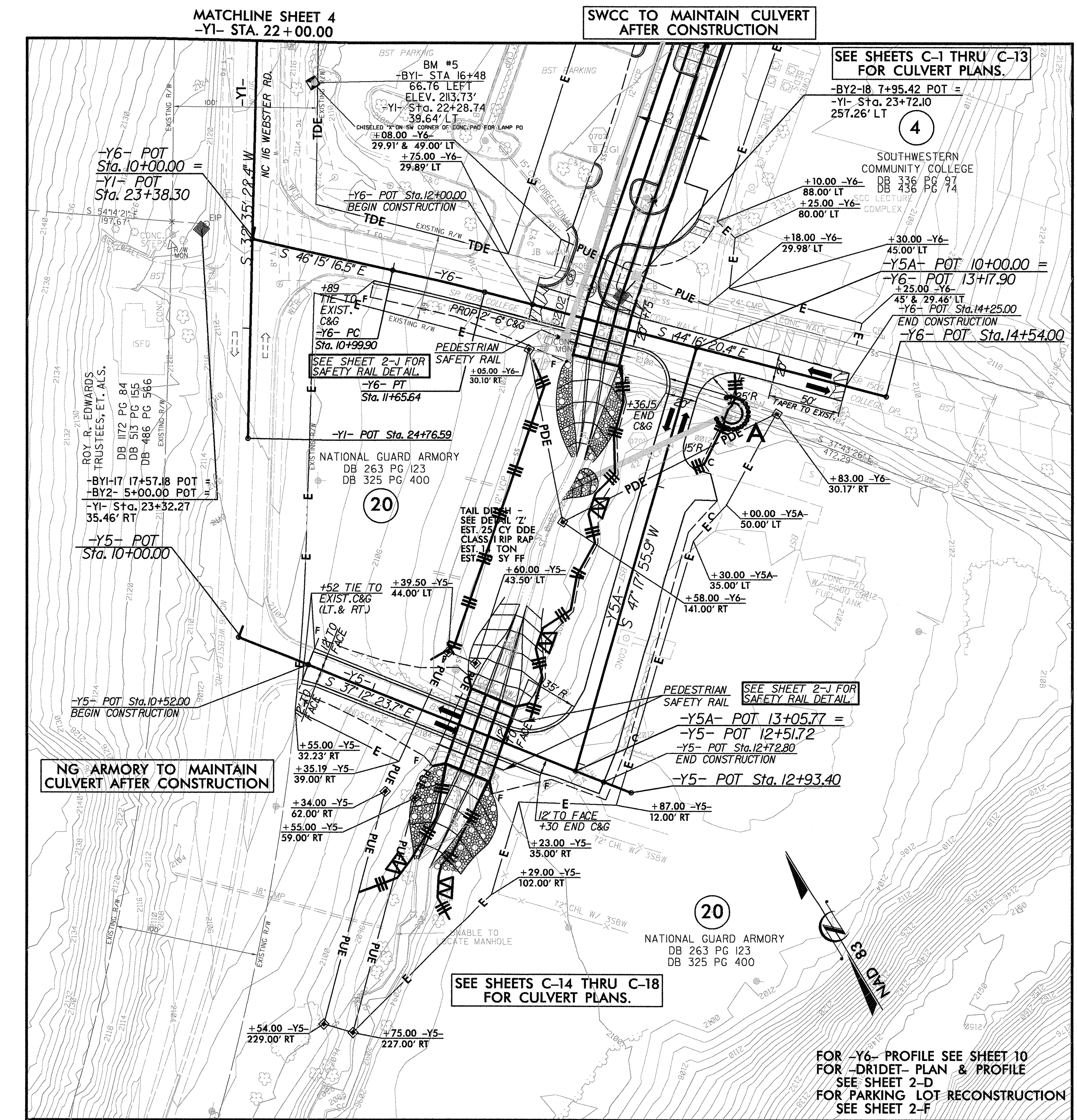
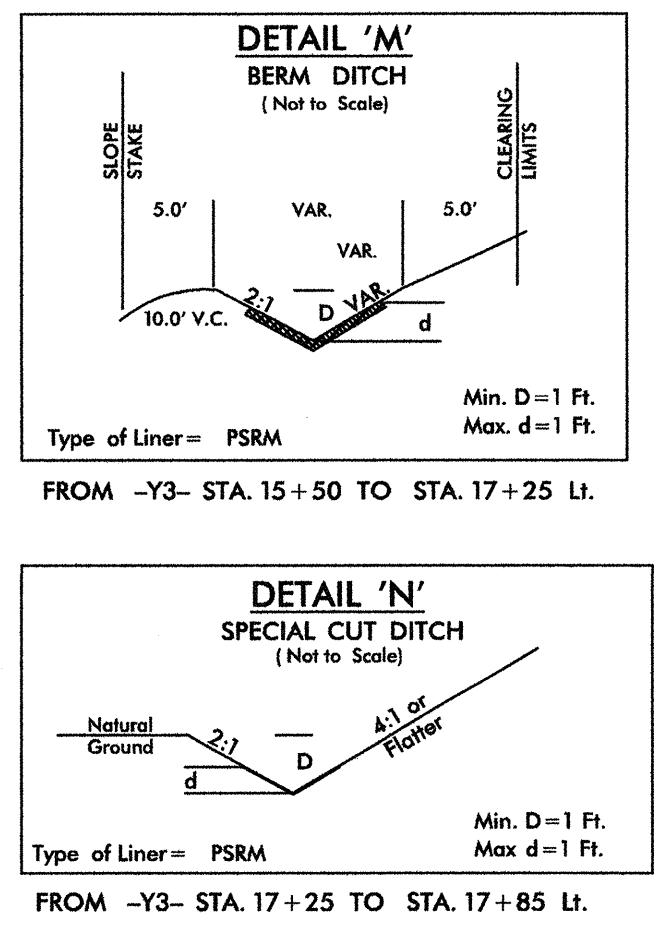
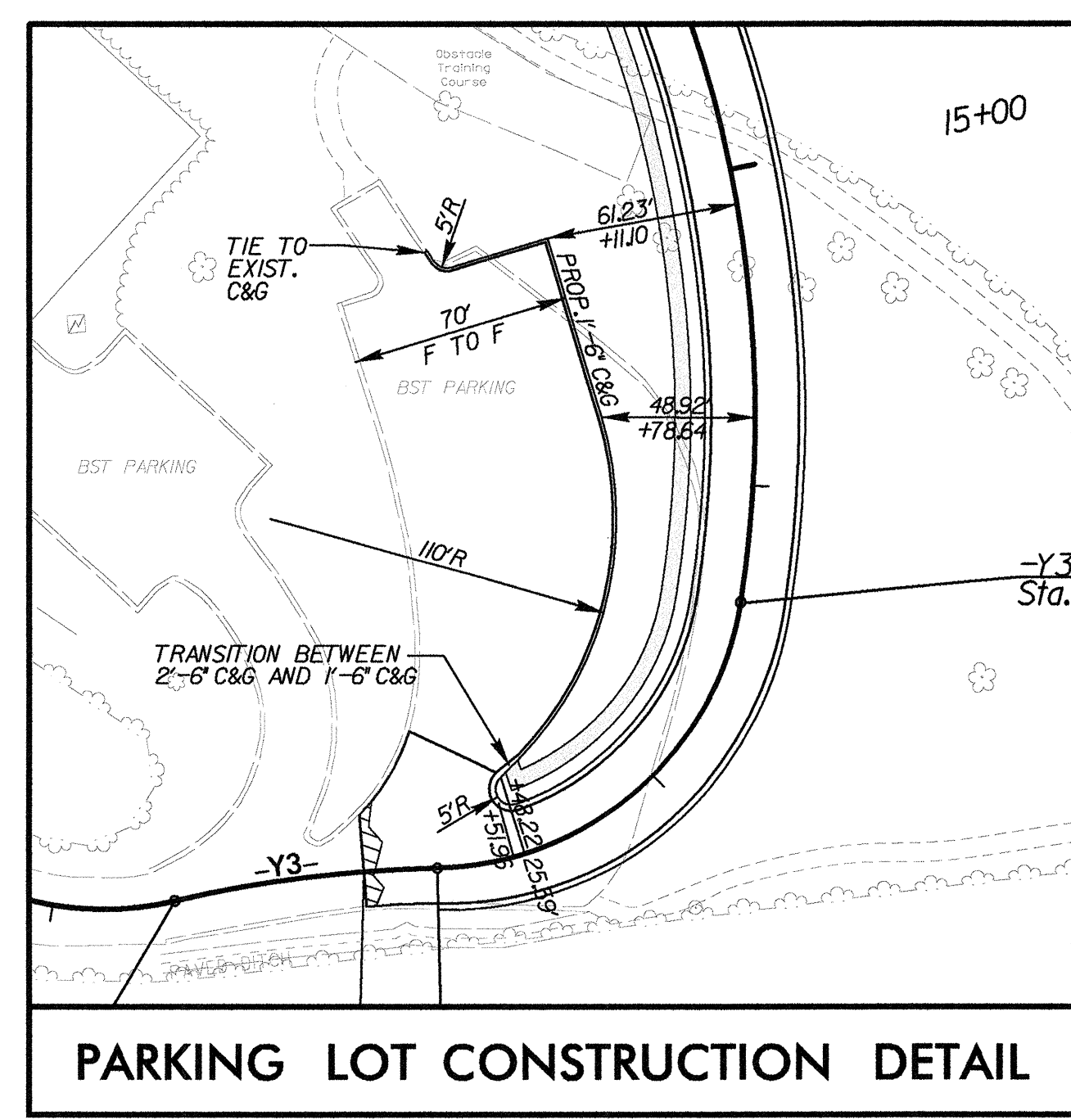
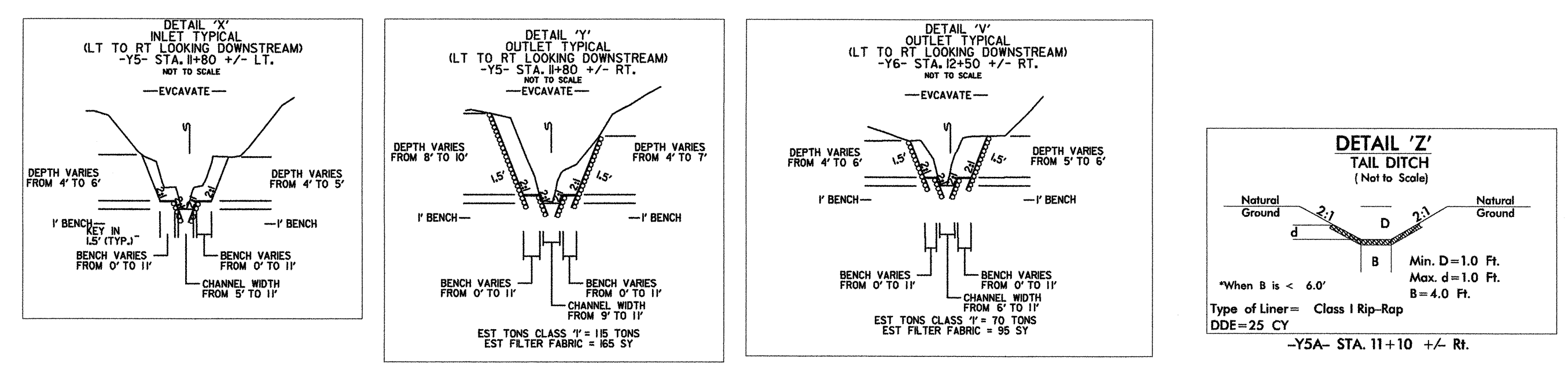
**TEMPORARY DIVERSION  
 CONSTRUCT DITCH AS  
 SOON AS PRACTICAL  
 SEE SHEET 8 FOR PROFILE**



FOR -L- PROFILE SEE SHEET 8  
 FOR -Y3- PROFILE SEE SHEET 10



PROJECT REFERENCE NO.	SHEET NO.
R-5000	EC-7/CONST. 7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PLANS PREPARED BY:	
<small>           PO BOX 33127            RALEIGH, N.C. 27636            (919) 881-1912            10100 BEECHFIELD FARM            WWW.MULKEYENR.COM            NC License No. C-1001         </small>	

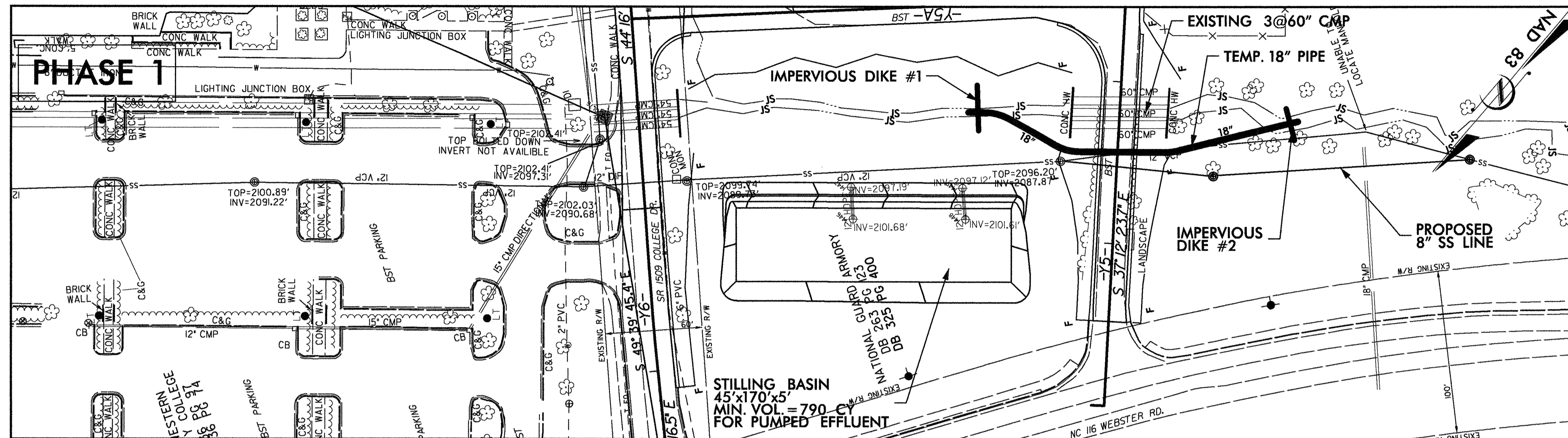


REVISIONS

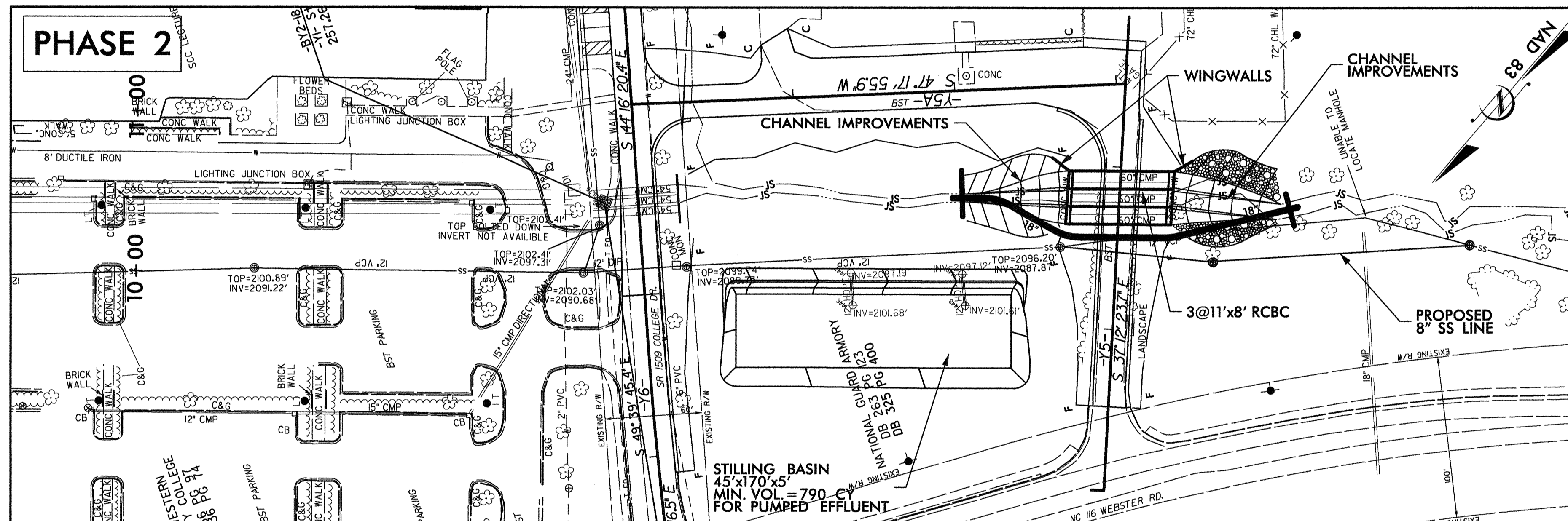
8/17/99  
 6/29/2012  
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# CONSTRUCTION SEQUENCE OF 3 @ 11' X 8' RCBC WITH 0.5 FT. AND 1.0 FT. SILLS AT 37.5' INTERVALS IN CENTER BARREL ALONG MILL CREEK (TRIB. TO TUSKASEGEE RIVER)

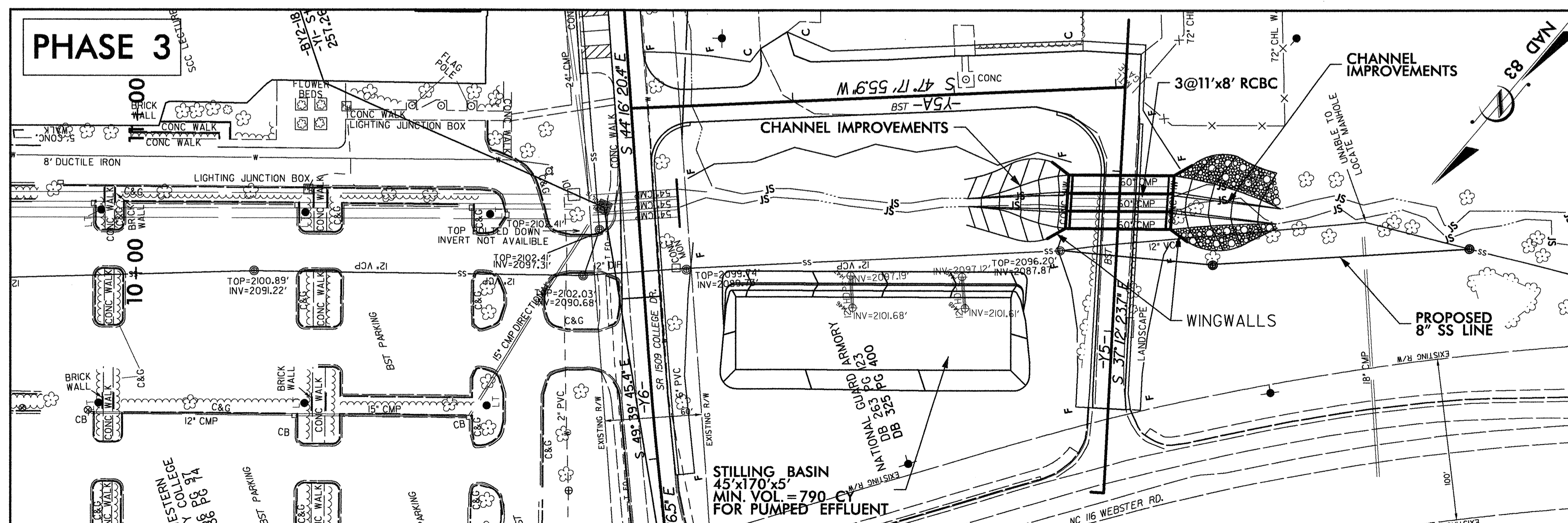
PROJECT REFERENCE NO.	SHEET NO.
R-5000	EC-8/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



- PHASE 1**
- INSTALL STILLING BASIN (MIN. VOL.=790 CY)
  - INSTALL IMPERVIOUS DIKES #1 & #2 & 18" FLEXIBLE PIPE AND DIVERT WATER
  - REMOVE EXISTING 3@60" CMP



- PHASE 2**
- INSTALL 3@11'x8' RCBC WHILE PUMPING EFFLUENT INTO STILLING BASIN
  - CONSTRUCT WINGWALLS ON LEFT SIDE OF RCBC
  - CONSTRUCT PORTION OF UPSTREAM AND DOWNSTREAM CHANNEL IMPROVEMENTS



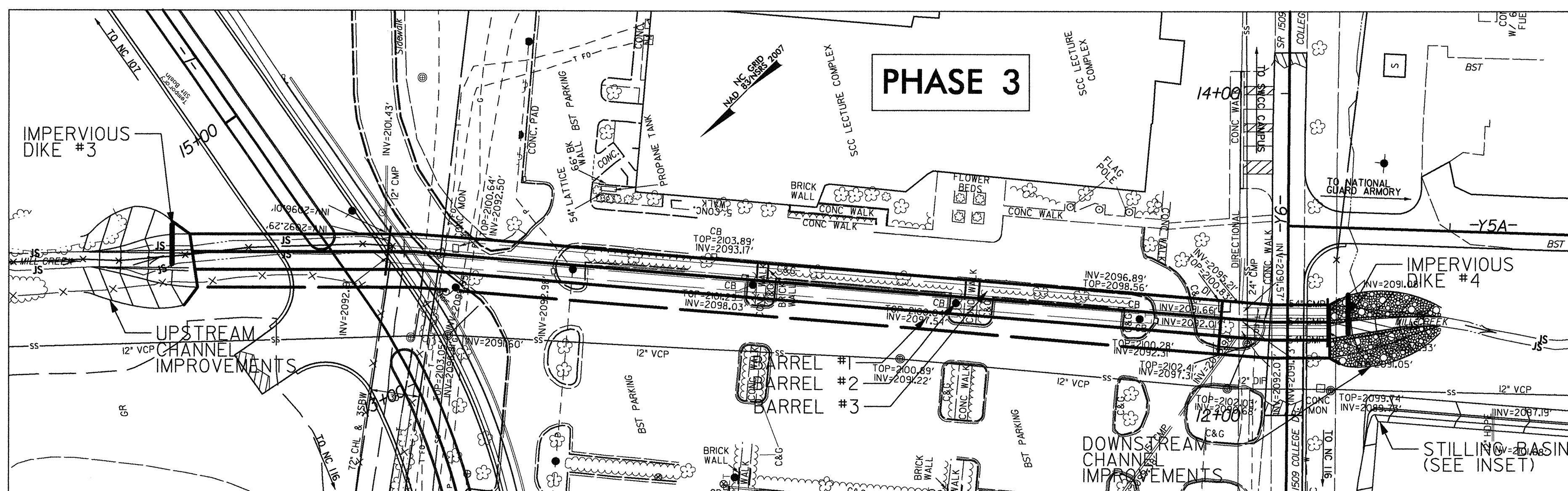
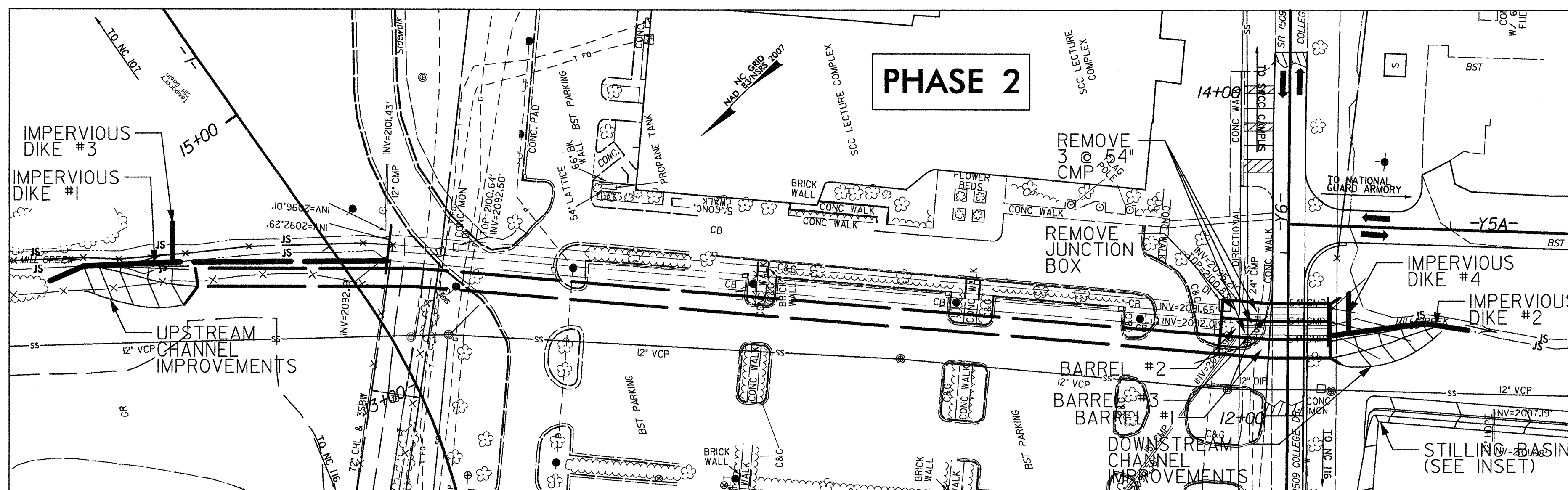
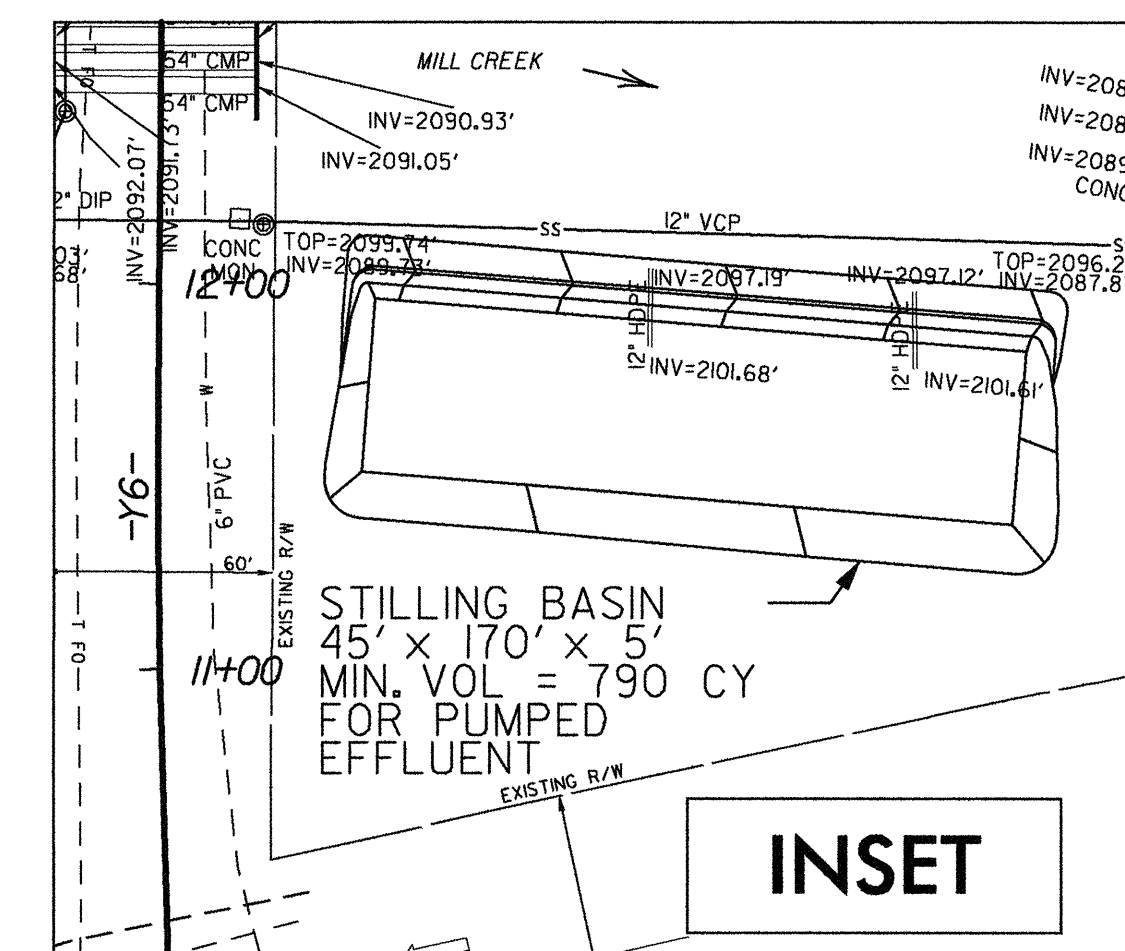
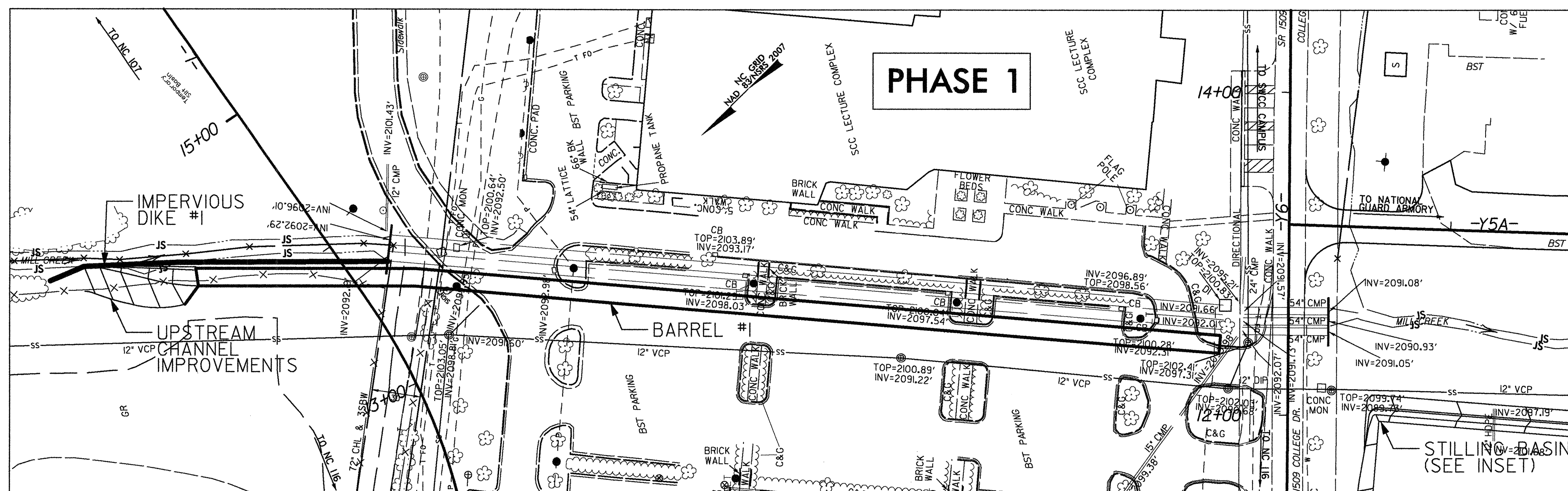
- PHASE 3**
- REMOVE IMPERVIOUS DIKE AND DIVERT WATER INTO NEWLY CONSTRUCTED 3@11'x8' RCBC
  - CONSTRUCT WINGWALLS ON RIGHT SIDE OF RCBC
  - CONSTRUCT REMAINDER OF UPSTREAM AND DOWNSTREAM CHANNEL IMPROVEMENTS
  - RETAIN STILLING BASIN FOR FUTURE CONSTRUCTION OF UPSTREAM CULVERT

REVISIONS

8/17/199  
8/20/2012  
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2:24:14 PM

**CONSTRUCTION SEQUENCE OF 3 @ 11' X 7' RCBC  
WITH 0.5 FT. AND 1.0 FT. SILLS AT STA. 13+90.23 -L-  
ALONG MILL CREEK (TRIB. TO TUSKASEGEE RIVER)**

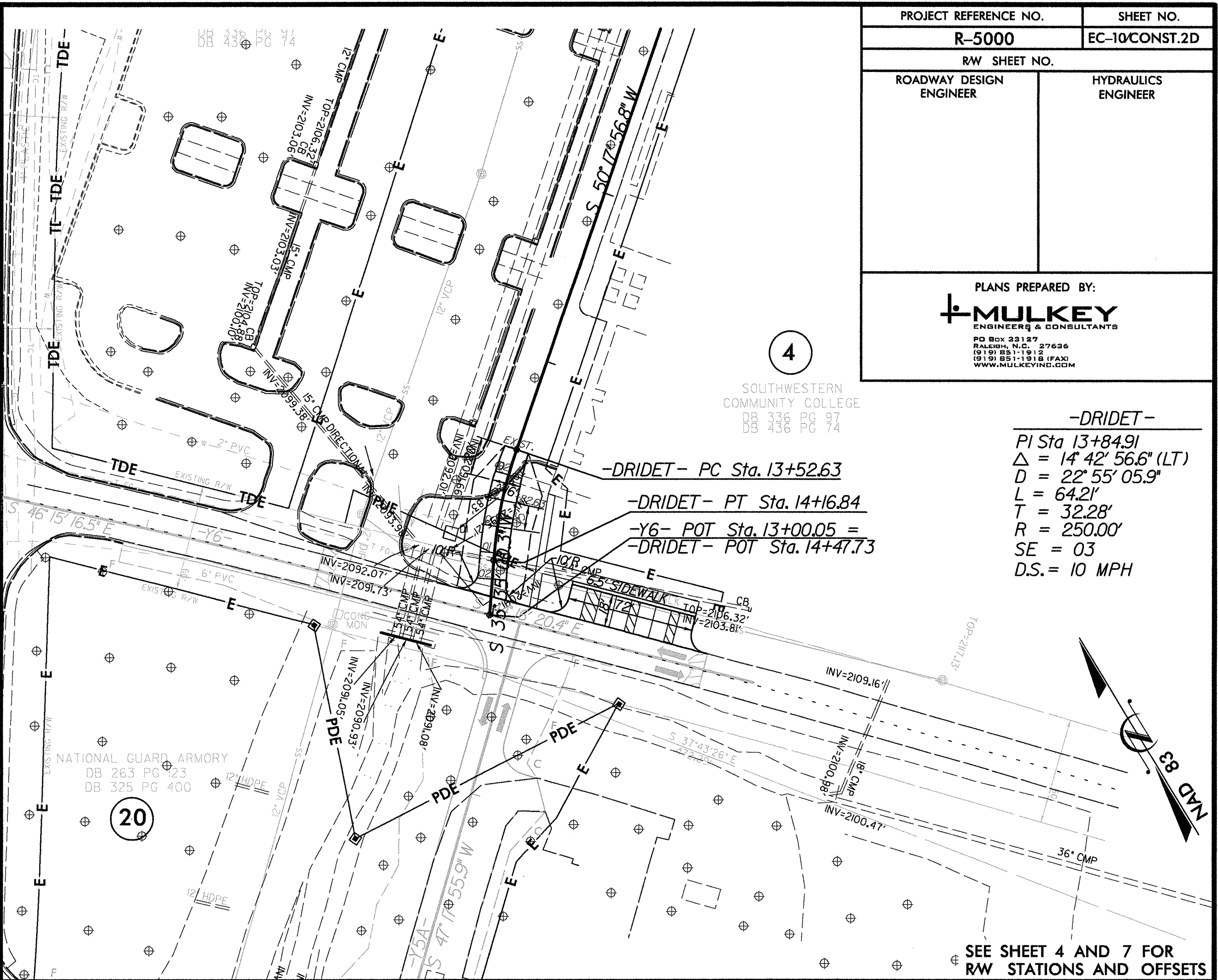
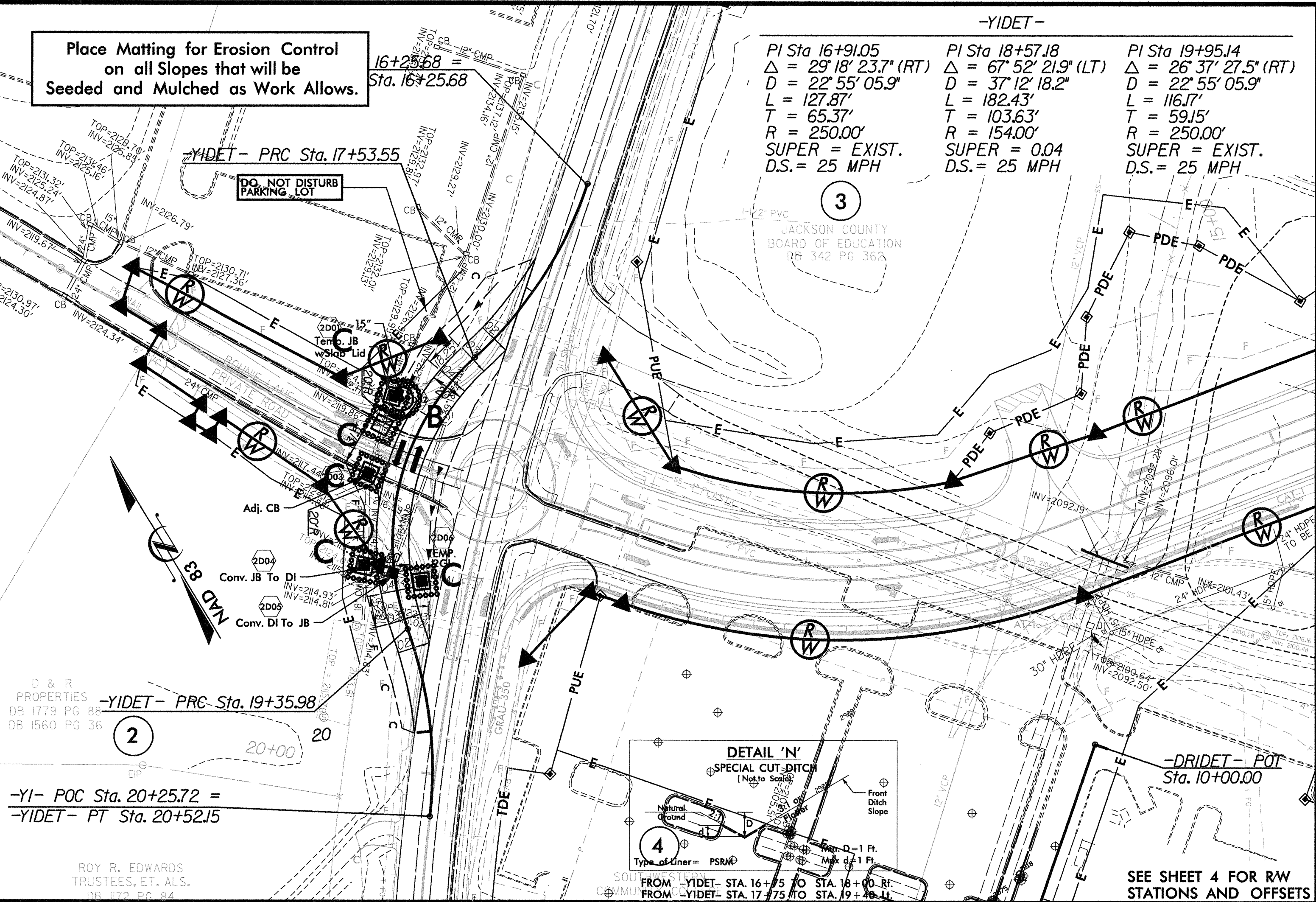
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RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



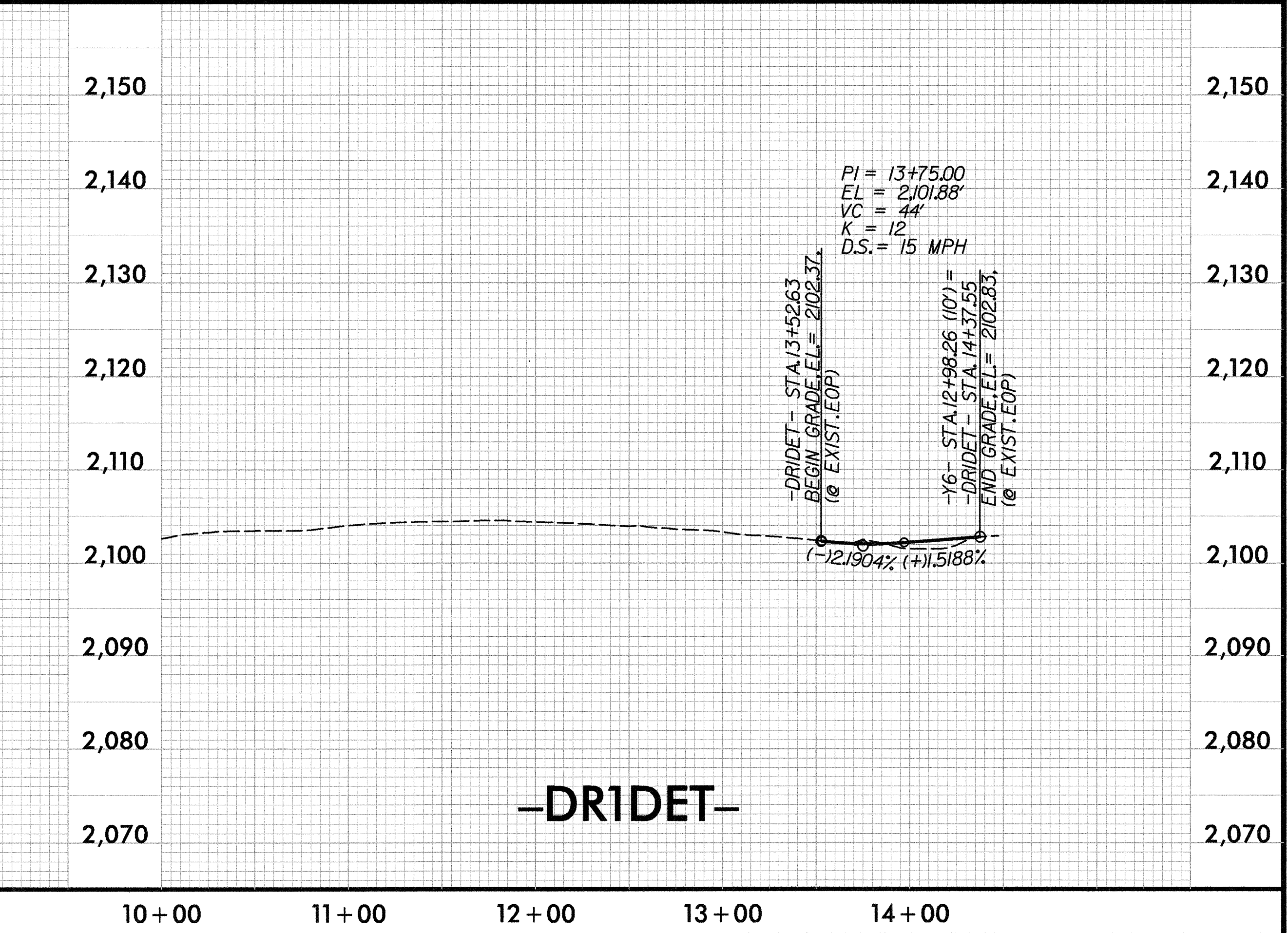
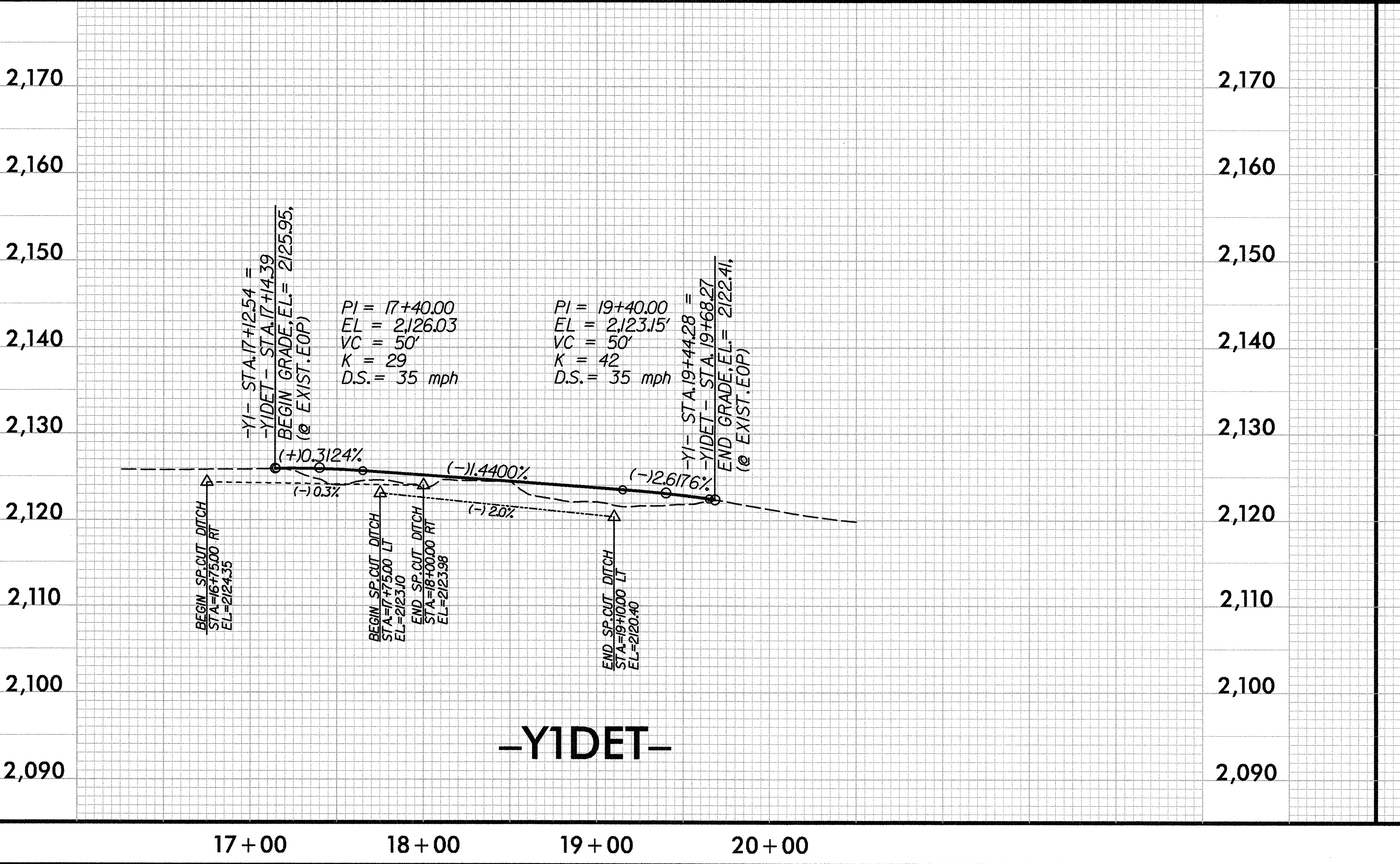
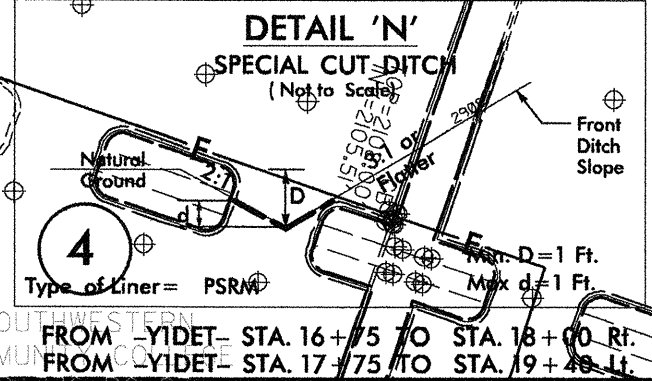
- PHASE 1**
- USE STILLING BASIN (MIN. VOL. = 790 CY) CONSTRUCTED FOR REPLACEMENT OF CULVERT ON -Y5-
  - INSTALL IMPERVIOUS DIKE #1
  - CONSTRUCT PORTION OF PROPOSED CULVERT BARREL #1
  - CONSTRUCT PORTION OF UPSTREAM CHANNEL IMPROVEMENTS
- PHASE 2**
- DETOUR TRAFFIC ONTO -Y5A-
  - INSTALL IMPERVIOUS DIKE #2
  - COMPLETE CONSTRUCTION OF PROPOSED CULVERT BARREL #1
  - CONSTRUCT PORTION OF DOWNSTREAM CHANNEL IMPROVEMENTS
  - REMOVE IMPERVIOUS DIKES #1 & #2. DIVERT FLOW INTO BARREL #1.
  - INSTALL IMPERVIOUS DIKE #3 & #4.
  - REMOVE EXISTING 3 @ 54" CMP PIPES AND JUNCTION BOX
  - CONSTRUCT PORTION OF PROPOSED BARRELS #2 & #3
  - COMPLETE IMPROVEMENTS TO -Y6- AND SHIFT TRAFFIC ONTO -Y6-
- PHASE 3**
- REMOVE 2 @ 72" CMP
  - COMPLETE CONSTRUCTION OF PROPOSED CULVERT BARRELS #2 & #3
  - REMOVE IMPERVIOUS DIKES #3 & #4.
  - COMPLETE UPSTREAM & DOWNSTREAM CHANNEL IMPROVEMENTS
  - COMPLETE CONSTRUCTION OF -L-
  - REMOVE STILLING BASIN AND GRADE THE PROPERTY BACK TO THE EXISTING CONDITIONS

8/17/99  
 REVISIONS  
 6/29/2012  
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 2012.10.10 PM

Place Matting for Erosion Control  
 on all Slopes that will be  
 Seeded and Mulched as Work Allows.



PROJECT REFERENCE NO. <b>R-5000</b>	SHEET NO. <b>EC-10/CONST.2D</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PLANS PREPARED BY: <b>MULKEY ENGINEERS &amp; CONSULTANTS</b>	
PD Box 33127 Raleigh, N.C. 27636 (919) 851-1912 10100 E. 11th Street, Suite 101 www.mulkeyinc.com	



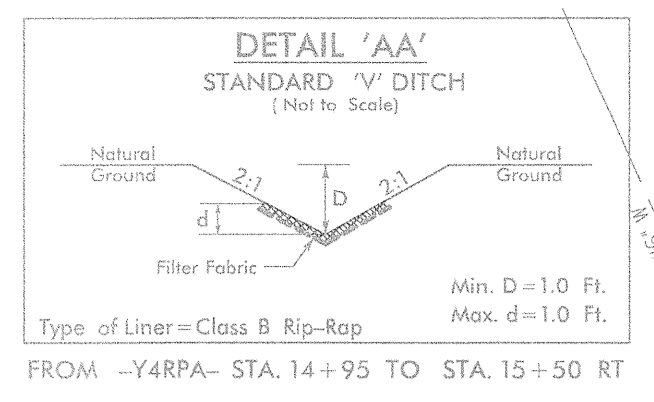
8/17/99

8/17/99

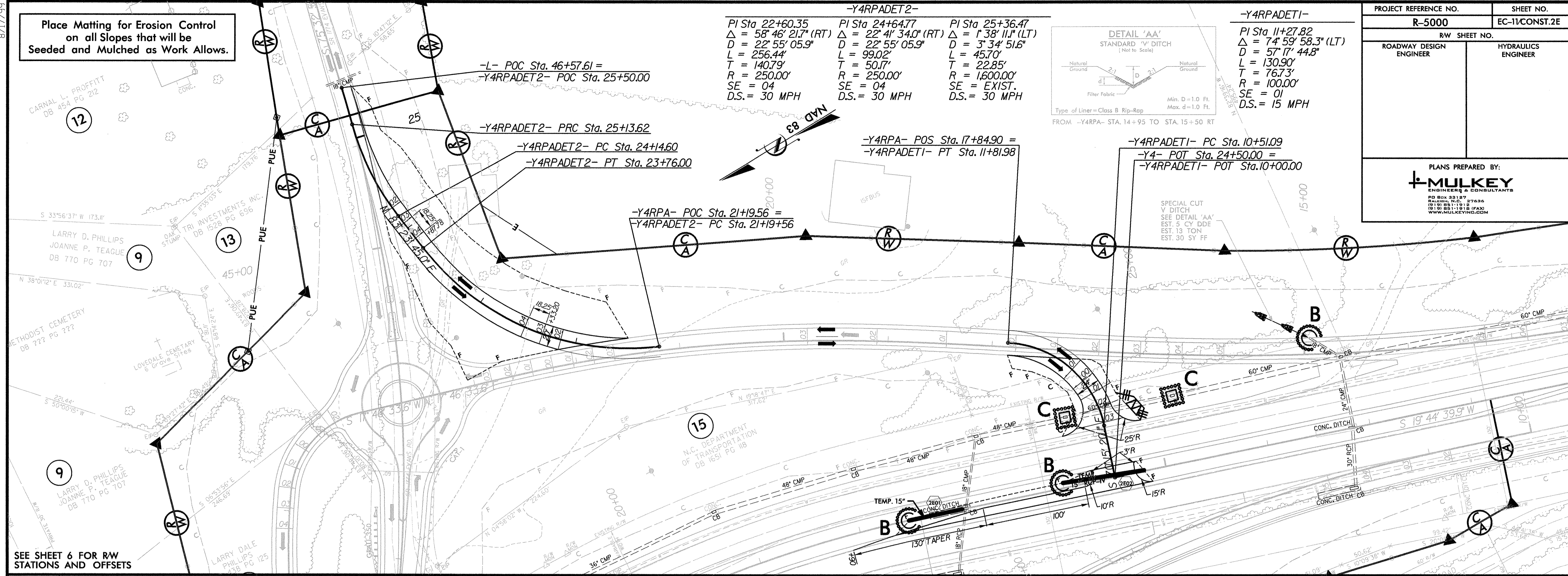
Place Matting for Erosion Control on all Slopes that will be Seeded and Mulched as Work Allows.

PROJECT REFERENCE NO. <b>R-5000</b>	SHEET NO. <b>EC-11VCONST.2E</b>
RW SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PLANS PREPARED BY: <b>MULKEY ENGINEERS &amp; CONSULTANTS</b> PO Box 32187 Raleigh, NC 27636 919 881-1918 (FAX) WWW.MULKEYINC.COM	

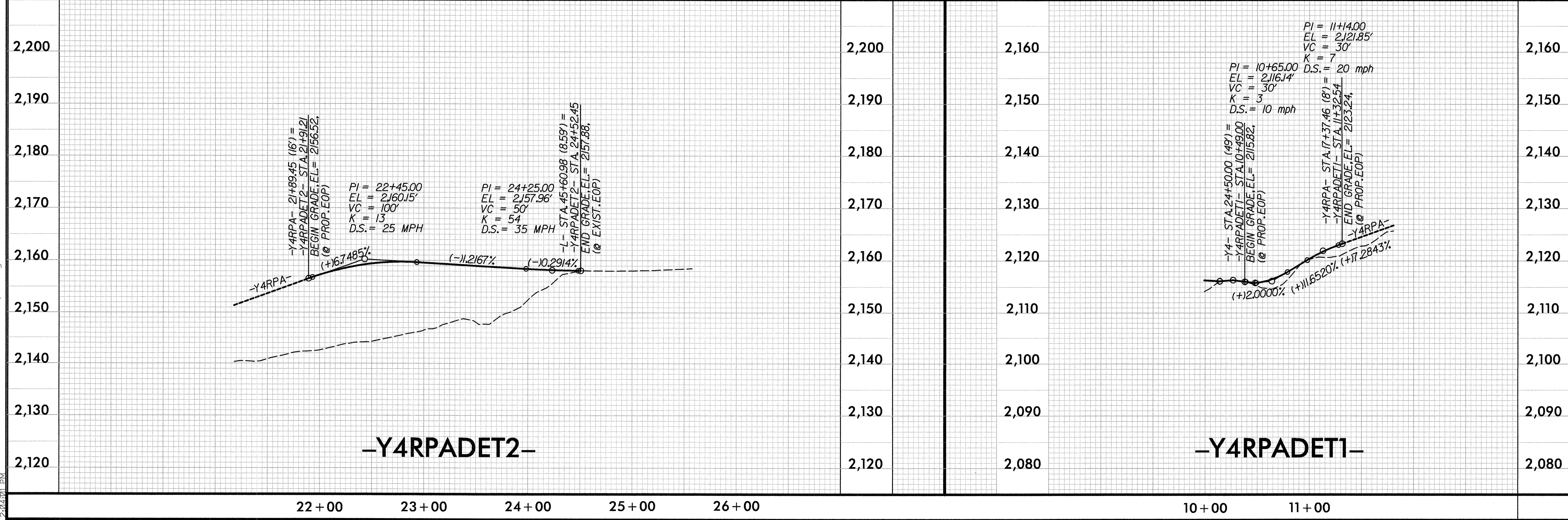
-Y4RPADET2-	-Y4RPADET2-	-Y4RPADET2-
PI Sta 22+60.35 $\Delta = 58' 46" 21.7" (RT)$ D = 22' 55' 05.9" L = 256.44' T = 140.79' R = 250.00' SE = 04 D.S. = 30 MPH	PI Sta 24+64.77 $\Delta = 22' 41' 34.0" (RT)$ D = 22' 55' 05.9" L = 99.02' T = 50.17' R = 250.00' SE = 04 D.S. = 30 MPH	PI Sta 25+36.47 $\Delta = 1' 38' 11.1" (LT)$ D = 3' 34' 51.6" L = 45.70' T = 22.85' R = 1,600.00' SE = EXIST. D.S. = 30 MPH



-Y4RPADET1-
PI Sta 11+27.82 $\Delta = 74' 59' 58.3" (LT)$ D = 57' 17' 44.8" L = 130.90' T = 76.73' R = 100.00' SE = 01 D.S. = 15 MPH



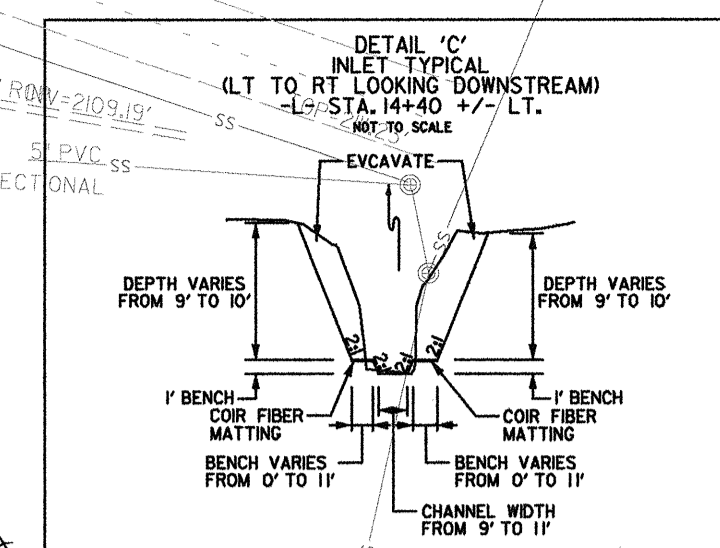
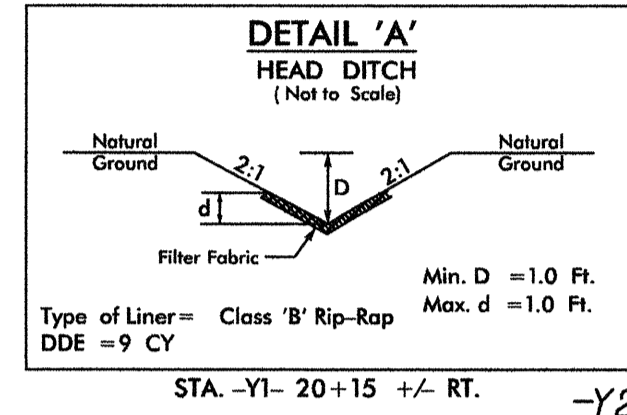
SEE SHEET 6 FOR RW STATIONS AND OFFSETS



REVISIONS

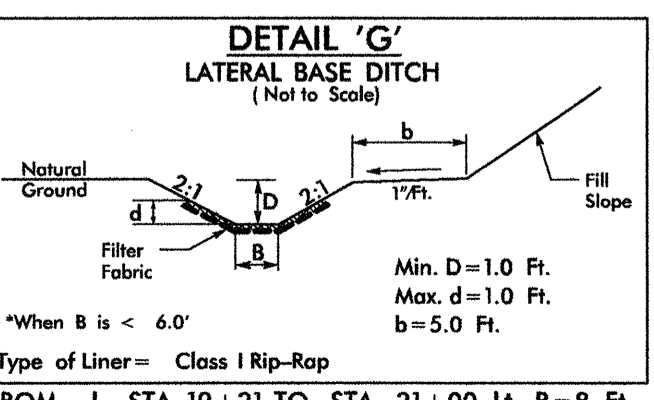
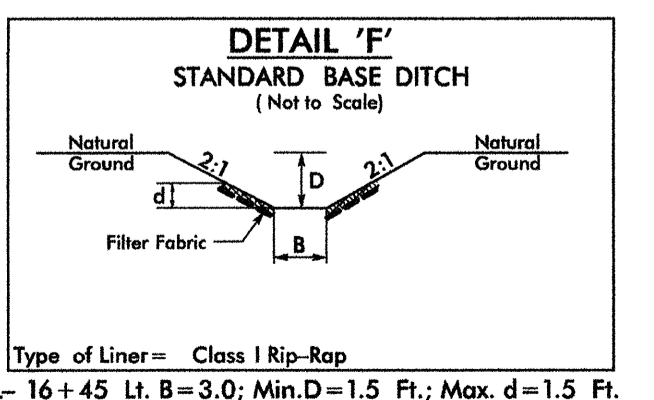
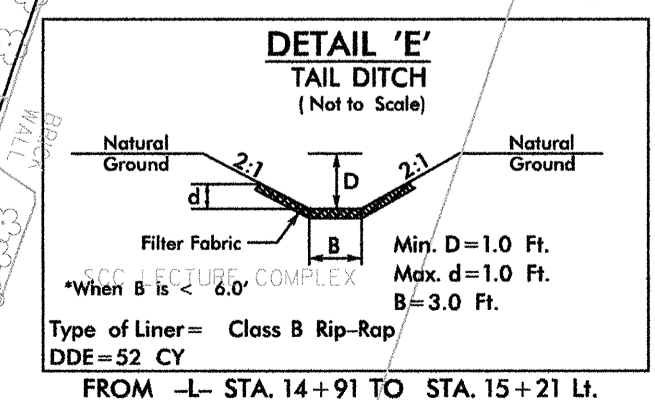
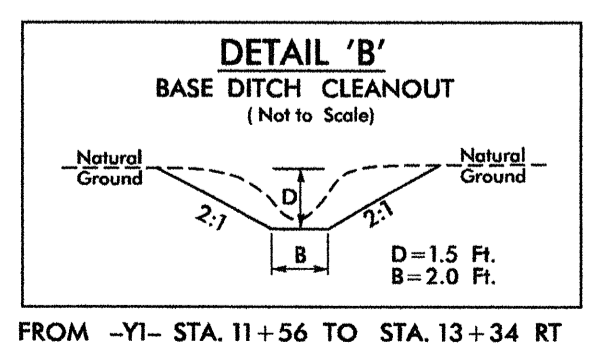
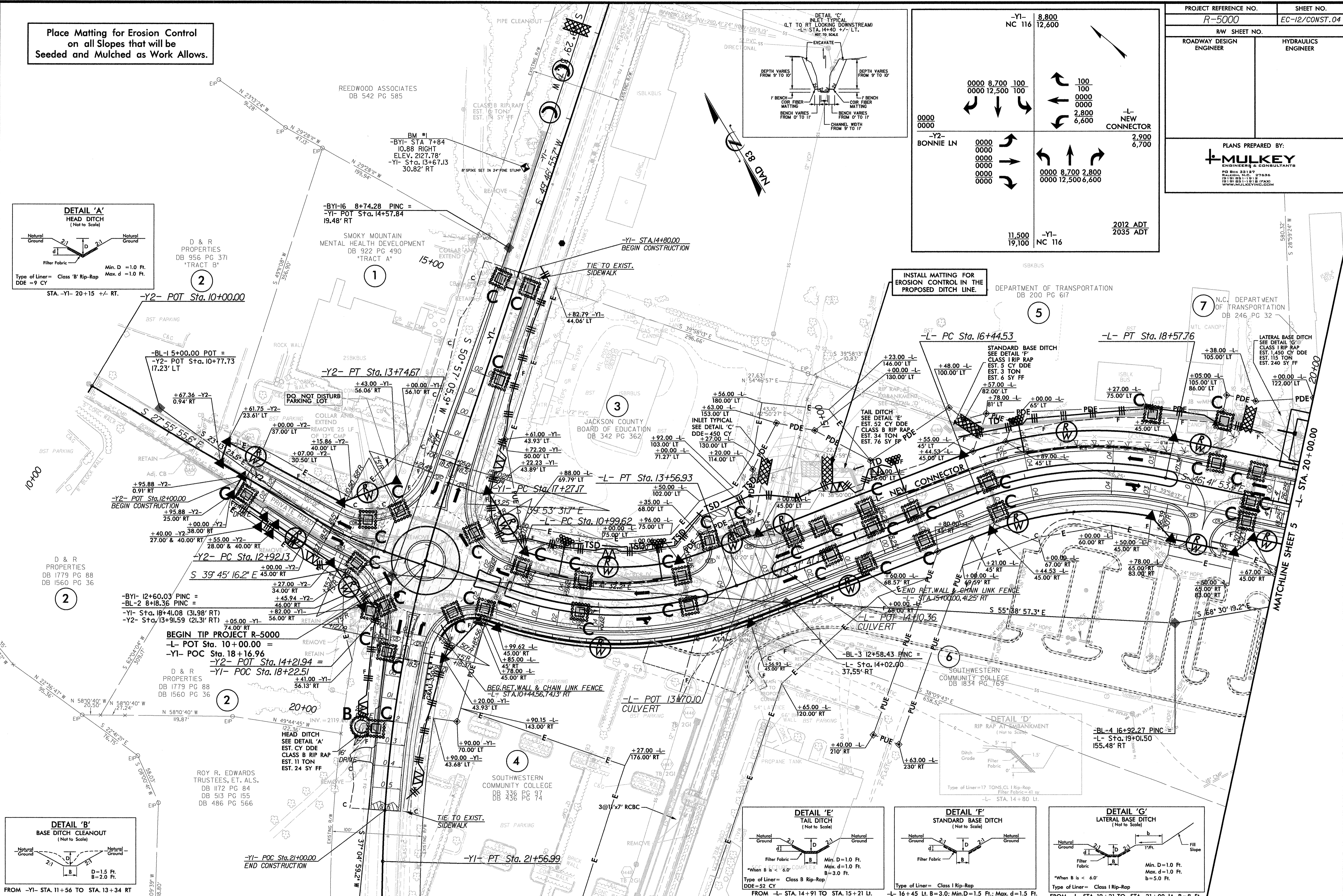
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Place Matting for Erosion Control on all Slopes that will be Seeded and Mulched as Work Allows.



-Y1- NC 116	8,800	12,600		
	0000	8,700	100	100
	0000	12,500	100	100
	0000		2,800	6,600
				2,900
				6,700
-Y2- BONNIE LN	0000			
	0000			
	0000			
	0000			
	0000			
	0000			
		0000	8,700	2,800
			0000	12,500
				6,600
11,500				
19,100				
	-Y1- NC 116			
				2012 ADT
				2035 ADT

PROJECT REFERENCE NO.	SHEET NO.
R-5000	EC-12/CONST. 04
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PLANS PREPARED BY:	
<small>PO BOX 28187 DALLAS, TEXAS 75228 TEL: 972-251-1911 FAX: 972-251-1912 WWW.MULKEYING.COM</small>	



MATCHLINE SHEET 7  
-Y1- STA. 22 + 00.00

FROM -Y1- STA. 11 + 56 TO STA. 13 + 34 RT

FROM -L- STA. 14 + 91 TO STA. 15 + 21 Lt.

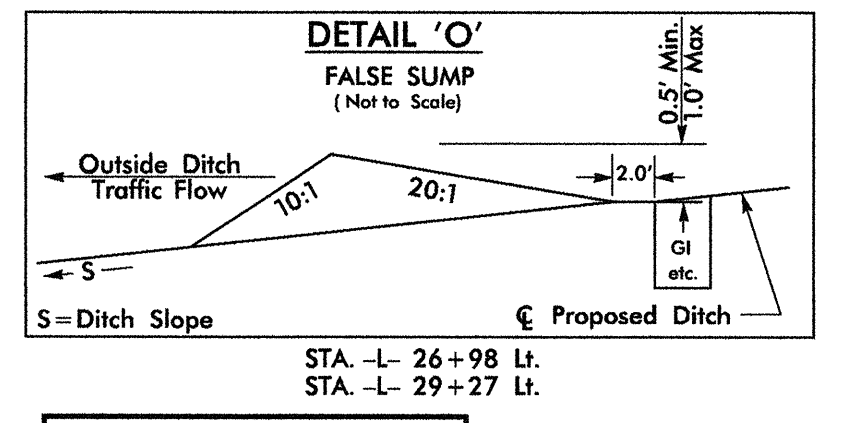
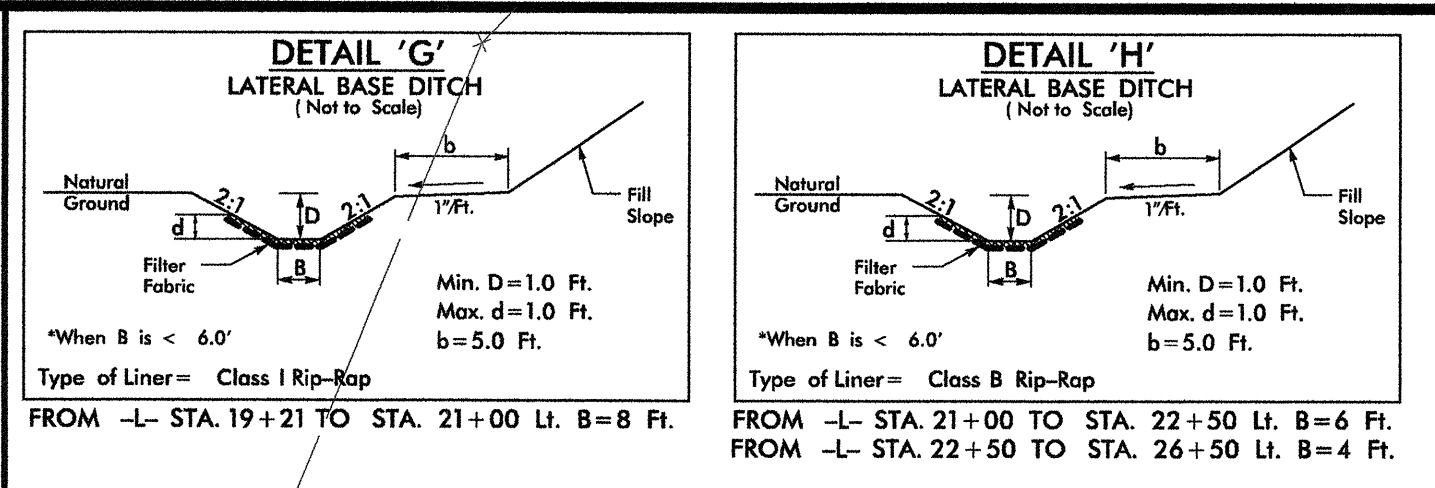
-L- 16 + 45 Lt. B=3.0; Min.D=1.5 Ft.; Max. d=1.5 Ft.

FROM -L- STA. 19 + 21 TO STA. 21 + 00 Lt. B=8 Ft.

FOR -L- PROFILE SEE SHEET 8  
FOR -Y1- PROFILE SEE SHEET 9  
FOR -Y2- PROFILE SEE SHEET 9  
FOR ISLAND DIMENSIONS & DETAILS SEE SHEET 2-C



PROJECT REFERENCE NO. <b>R-5000</b>	SHEET NO. <b>EC-13/CONST.05</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PLANS PREPARED BY: <b>MULKEY ENGINEERS &amp; CONSULTANTS</b>	
<small>PO Box 33187 Raleigh, N.C. 27636 (919) 881-1111 (919) 881-1018 FAX WWW.MULKEYING.COM</small>	

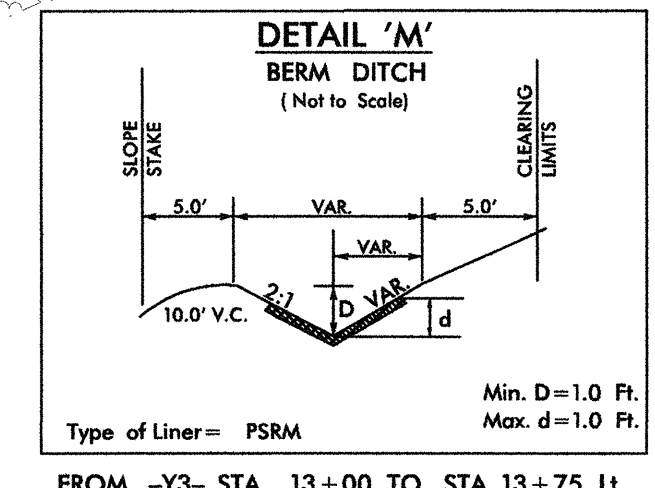
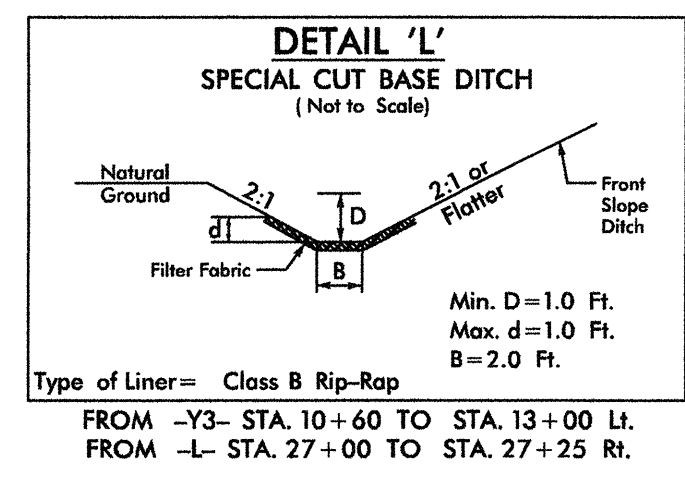
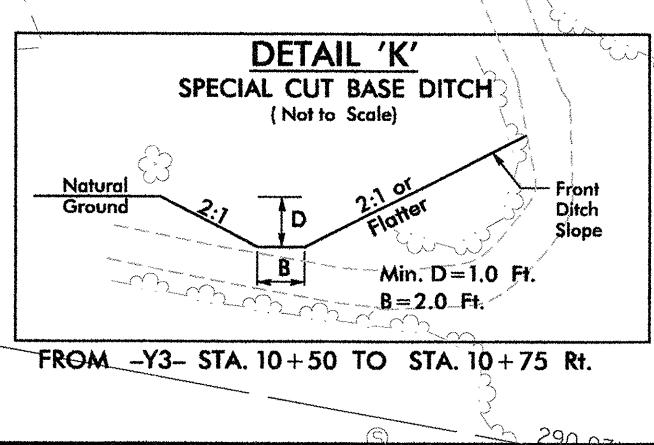
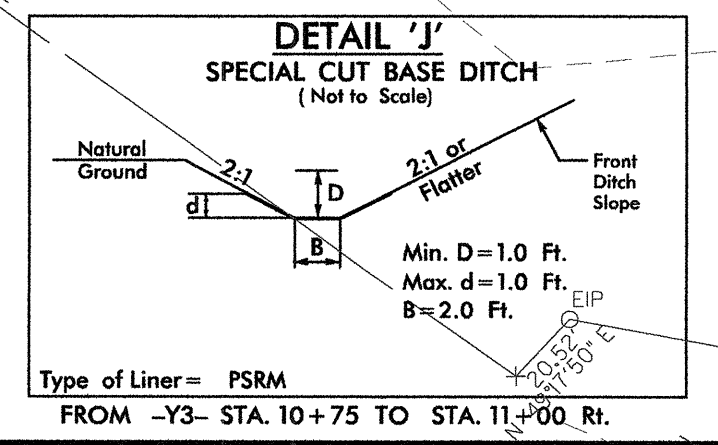
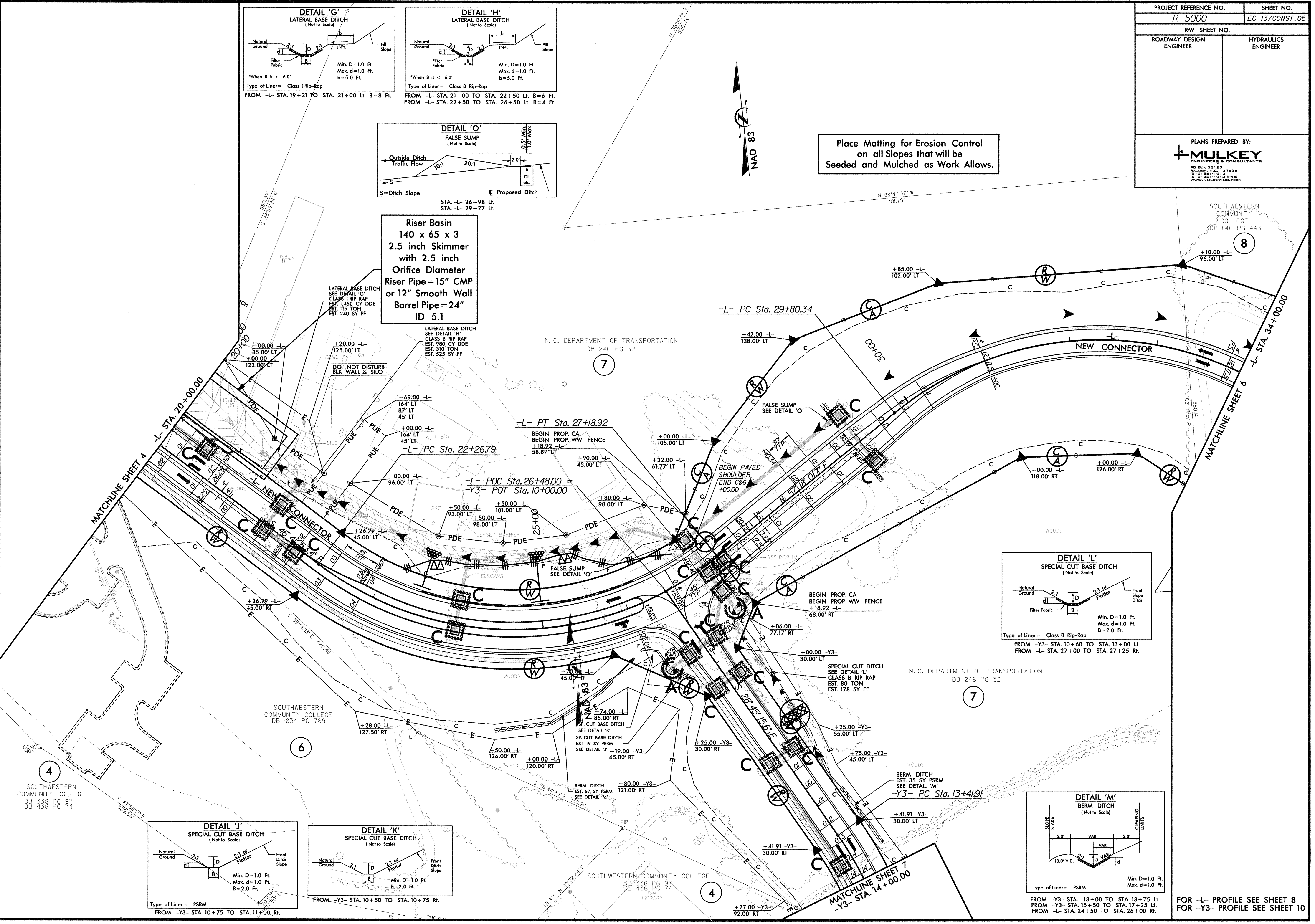


**Riser Basin**  
140 x 65 x 3  
2.5 inch Skimmer  
with 2.5 inch  
Orifice Diameter  
Riser Pipe = 15" CMP  
or 12" Smooth Wall  
Barrel Pipe = 24"  
ID 5.1

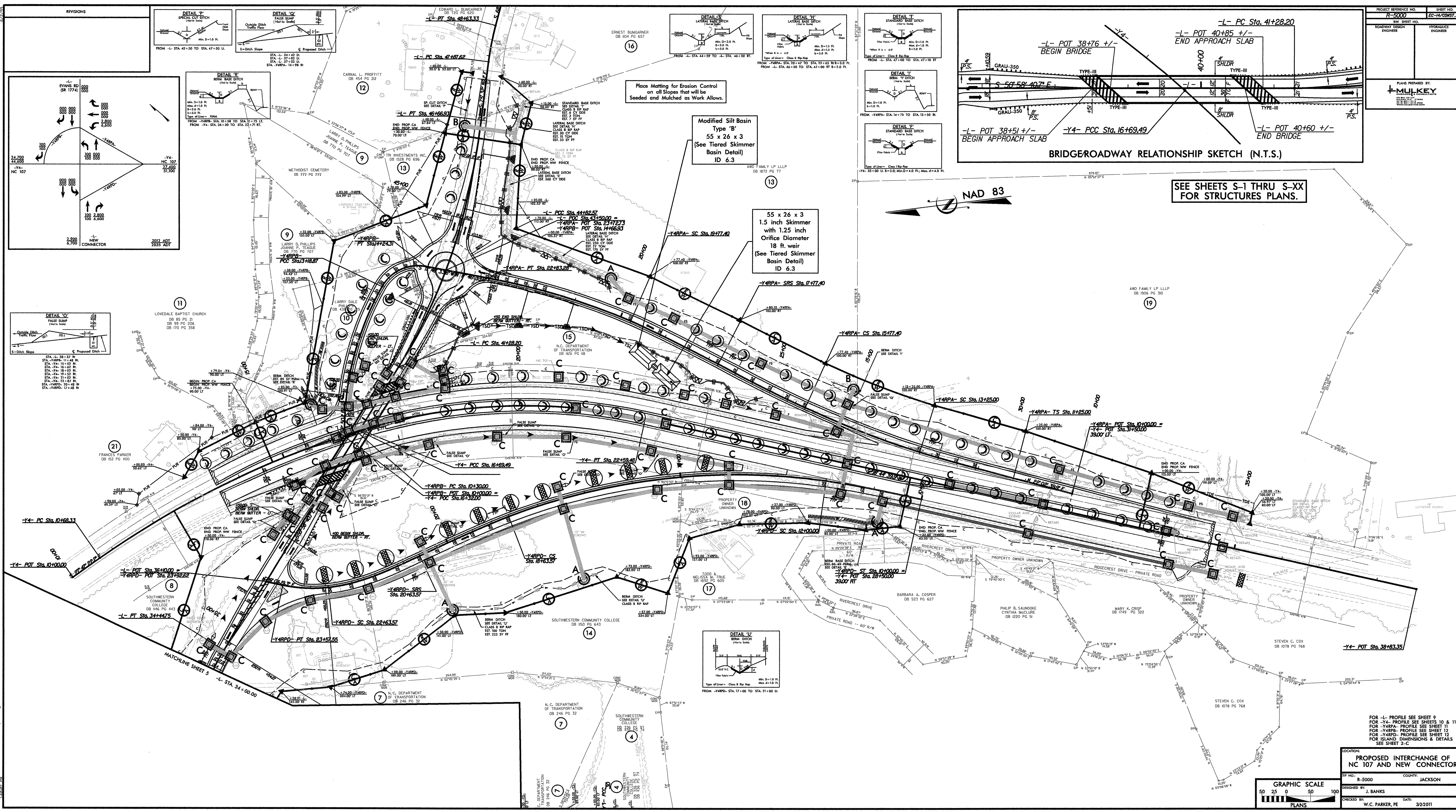
Place Matting for Erosion Control  
on all Slopes that will be  
Seeded and Mulched as Work Allows.

SOUTHWESTERN  
COMMUNITY  
COLLEGE  
DB 1146 PG 443

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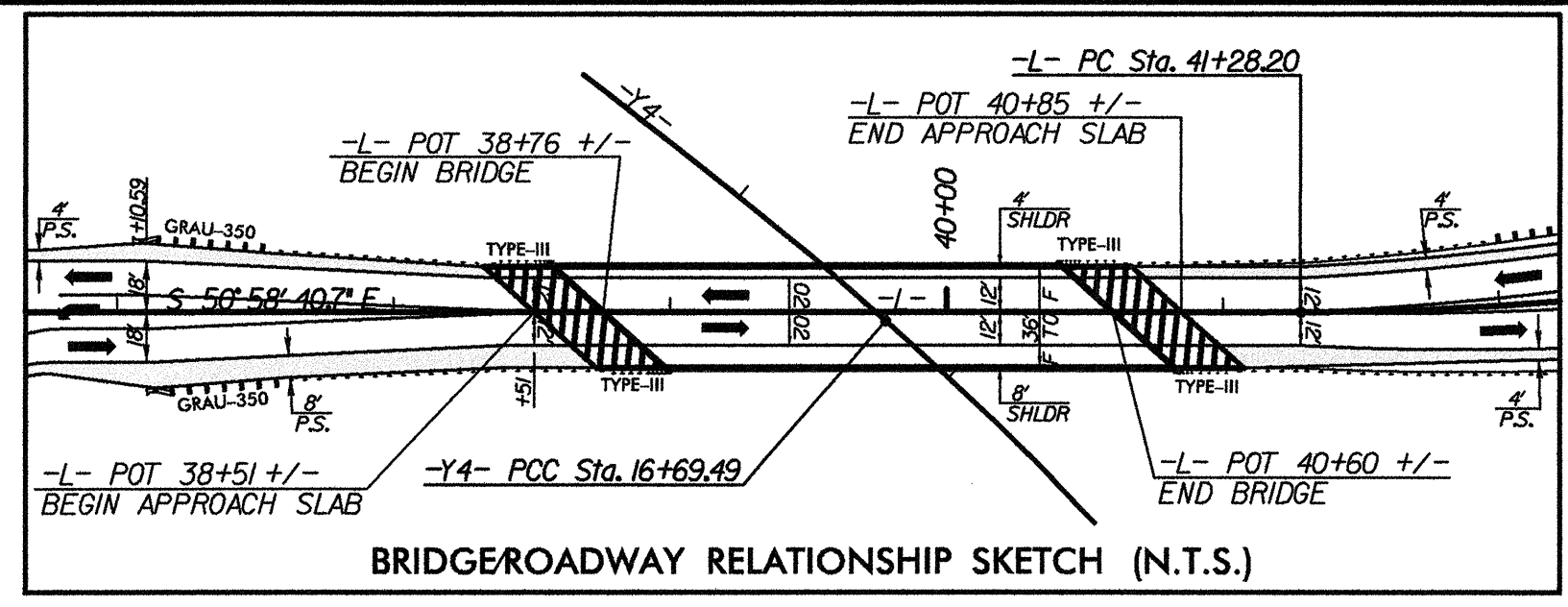
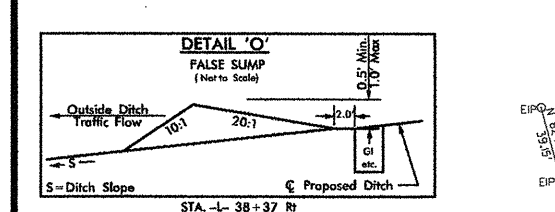
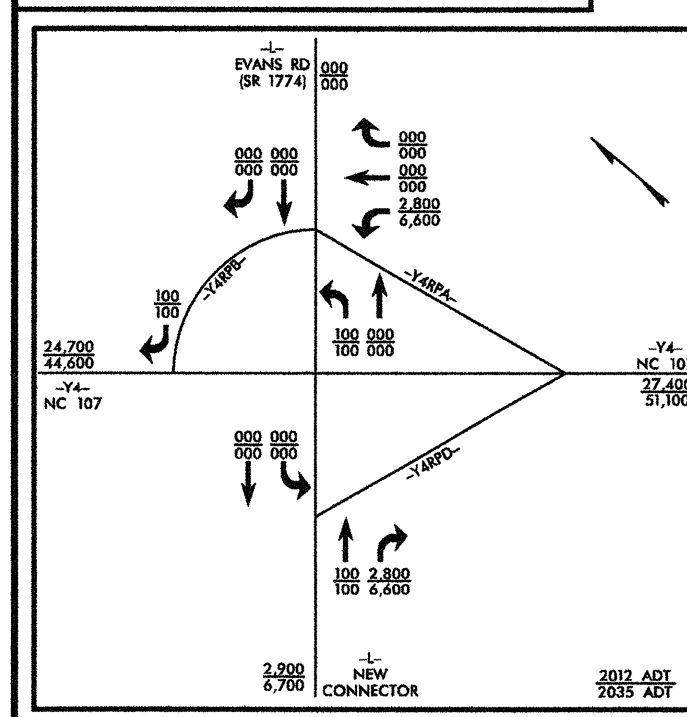


FOR -L- PROFILE SEE SHEET 8  
FOR -Y3- PROFILE SEE SHEET 10



**REVISIONS**

NO.	DATE	DESCRIPTION
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2		
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SEE SHEETS S-1 THRU S-XX FOR STRUCTURES PLANS.

PROJECT REFERENCE NO. **A-5000** SHEET NO. **EC-14/CONSTR.06**

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

PLANS PREPARED BY: **MULKEY**

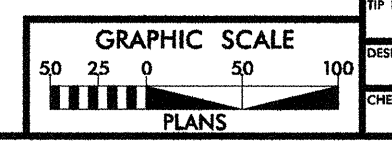
FOR -L- PROFILE SEE SHEET 9  
 FOR -Y4- PROFILE SEE SHEETS 10 & 11  
 FOR -Y4RPA- PROFILE SEE SHEET 11  
 FOR -Y4RPA- PROFILE SEE SHEET 12  
 FOR ISLAND DIMENSIONS & DETAILS SEE SHEET 2-C.

LOCATION: **PROPOSED INTERCHANGE OF NC 107 AND NEW CONNECTOR**

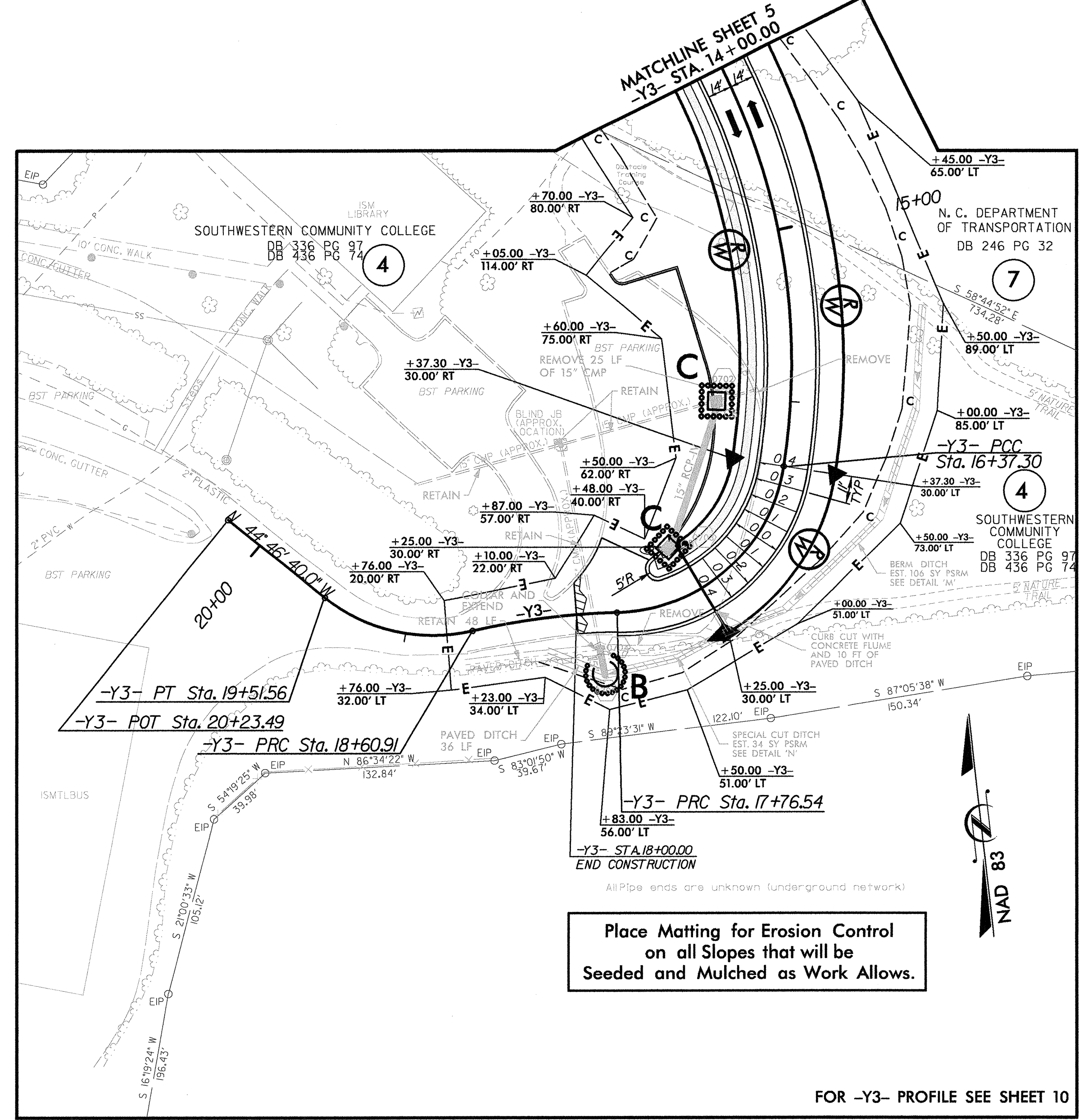
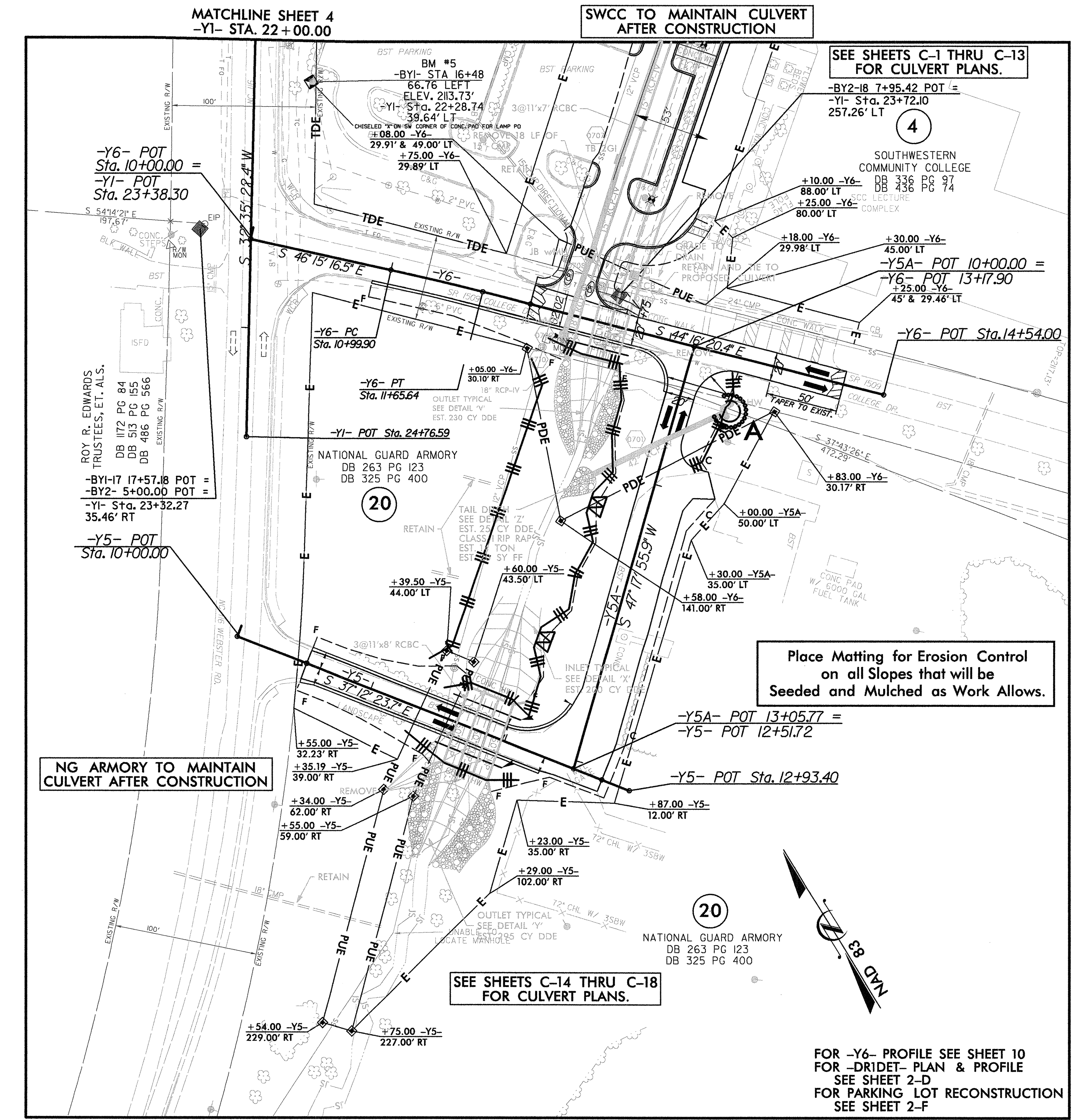
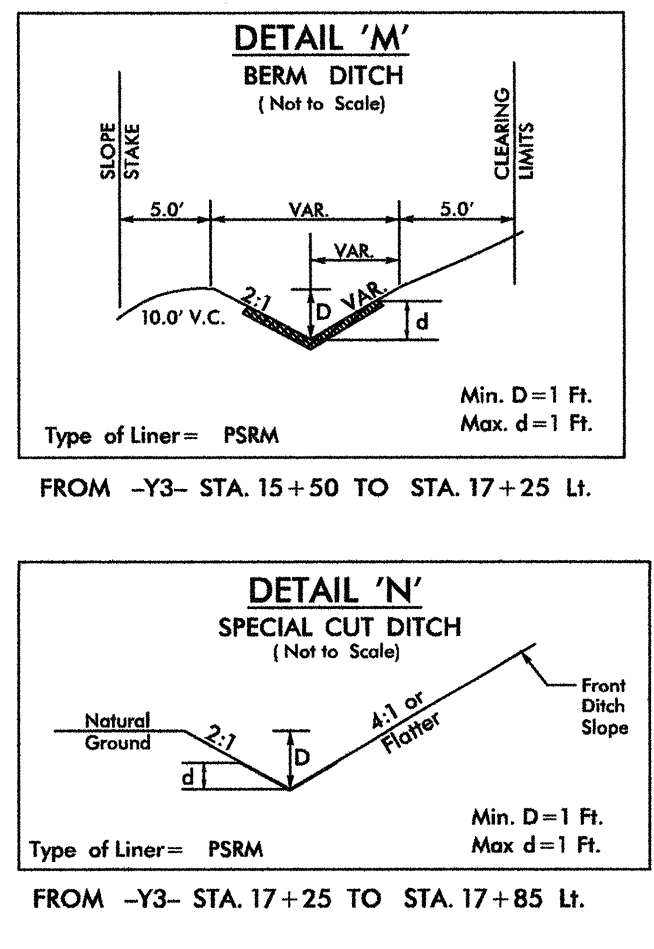
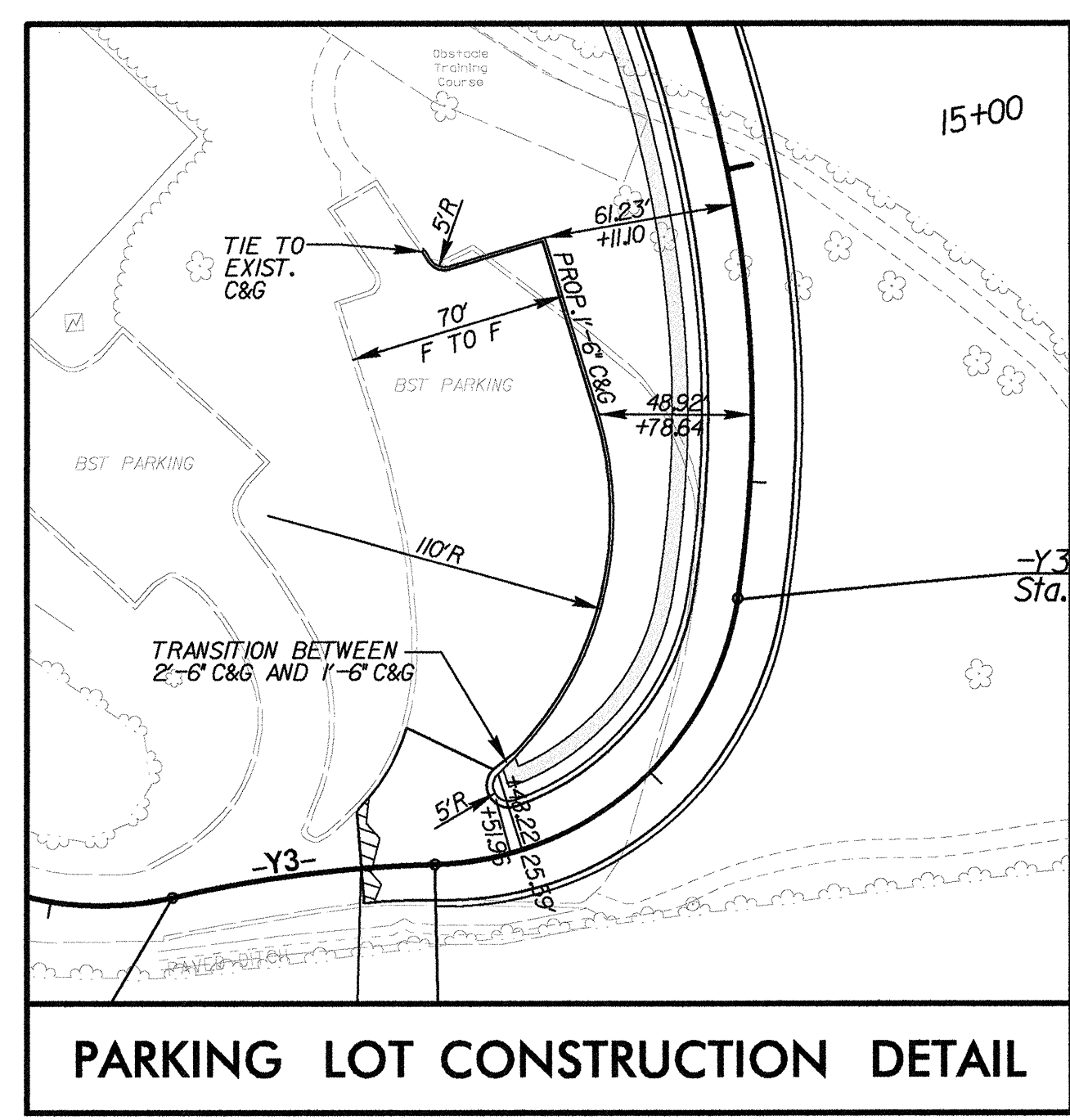
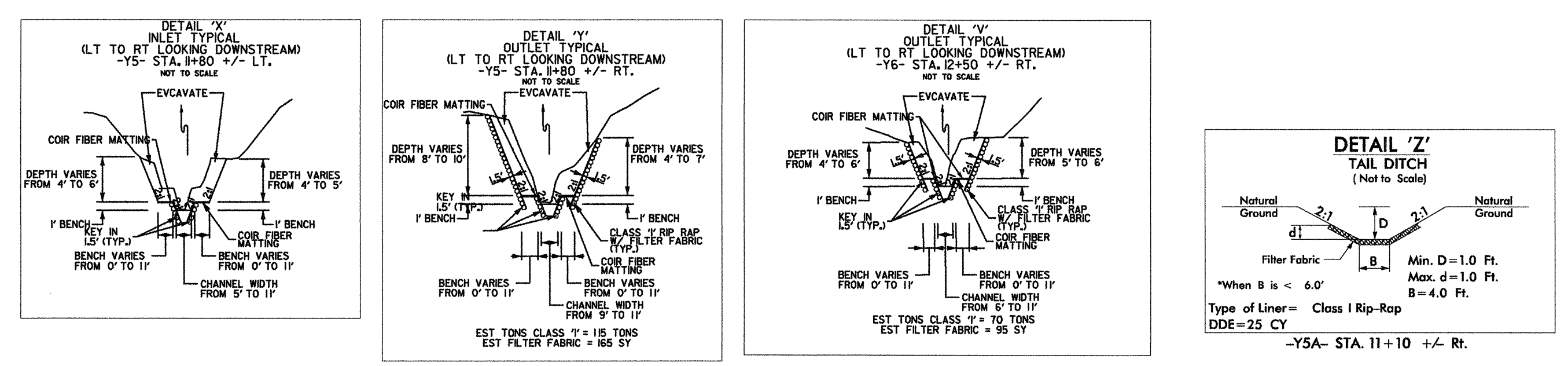
PROJECT NO.: **R-5000** COUNTY: **JACKSON**

DESIGNED BY: **J. BANKS**

CHECKED BY: **W.C. PARKER, PE** DATE: **3/2/2011**



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 3/2/2011 10:00:00 AM  
 W.C. PARKER, PE



8/17/99  
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 6/29/2012  
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