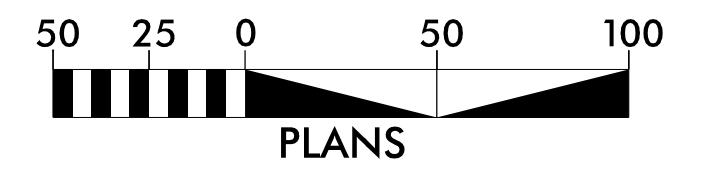
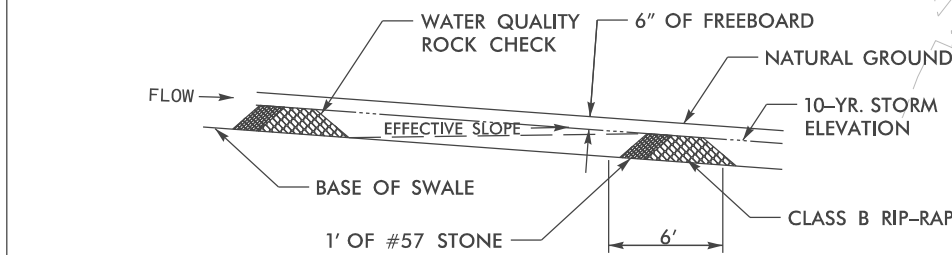


GRAPHIC SCALES

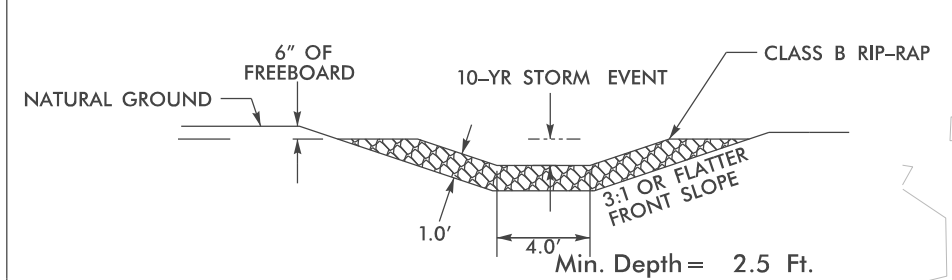


DETAIL 16

TRAPEZOIDAL GRASSED SWALE
w/ROCK CHECK DAM
(Not to Scale)



PROFILE



TYPICAL SECTION

NOTES:

- DO NOT USE INSIDE CLEAR RECOVERY AREA.
- NOT PRACTICAL TO USE ON SLOPES > 5%.
- FOR PERMANENT STRUCTURES IN GRASS SWALE.
- CHECK DAMS SHOULD BE SPACED SUCH THAT THE BASE OF THE UPSTREAM CHECK IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM CHECK.

NAD 83/NA 2011

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

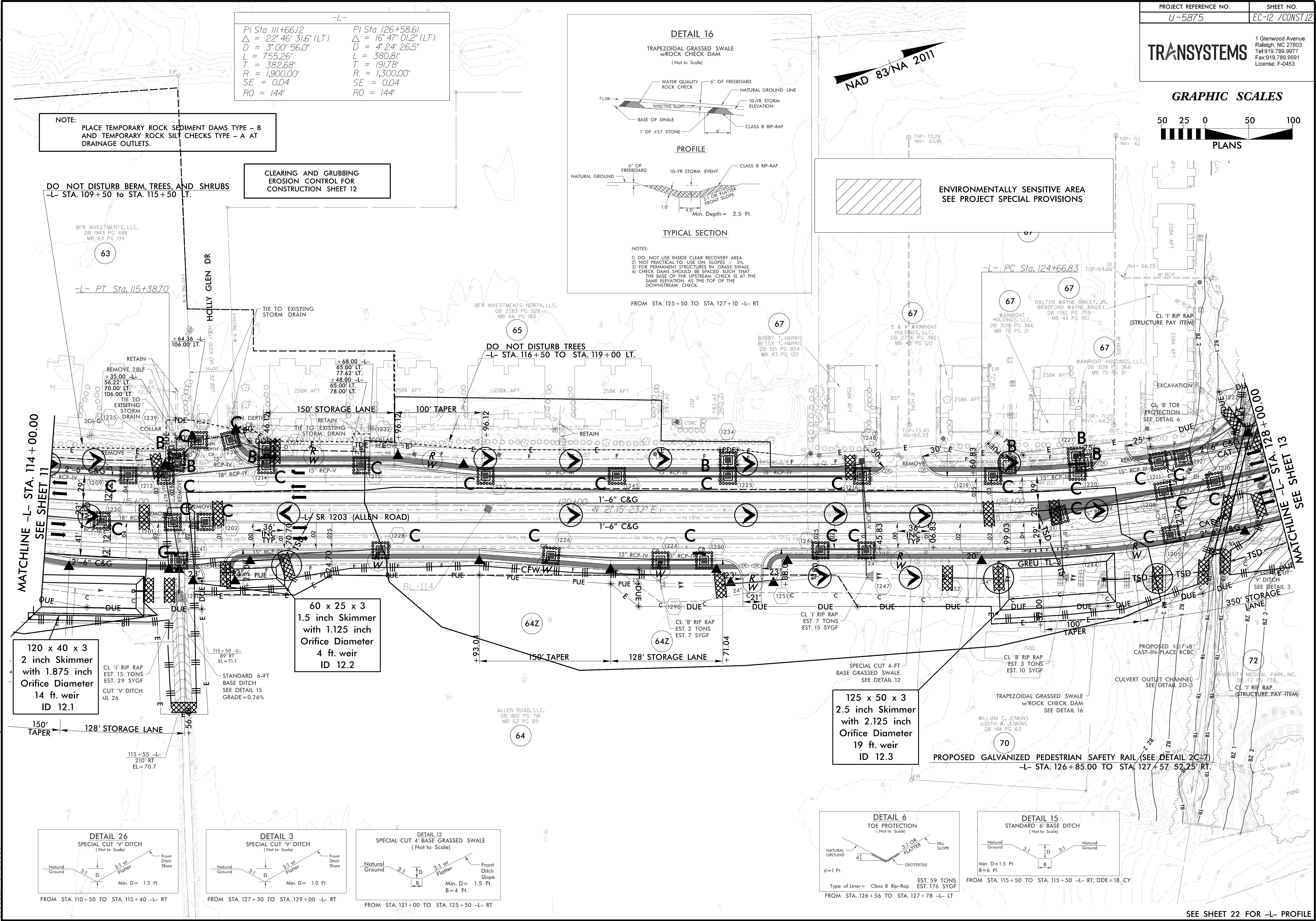
NOTE:

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 12

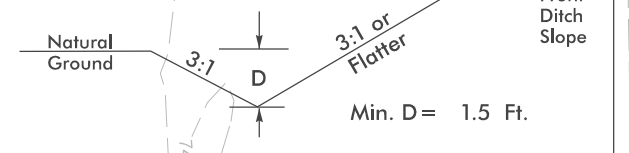
DO NOT DISTURB BERM, TREES, AND SHRUBS
-L- STA. 109+50 TO STA. 115+50 LT.

8/17/99



DETAIL 26

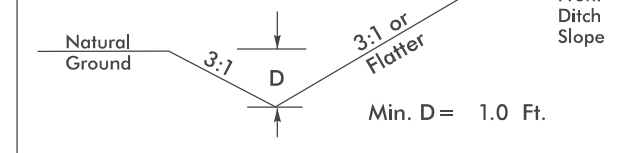
SPECIAL CUT 'V' DITCH
(Not to Scale)



FROM STA. 110+50 TO STA. 115+40 -L- RT

DETAIL 3

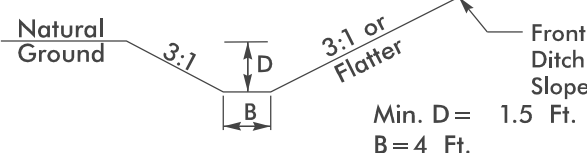
SPECIAL CUT 'V' DITCH
(Not to Scale)



FROM STA. 127+30 TO STA. 129+00 -L- RT

DETAIL 12

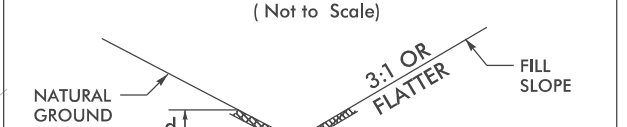
SPECIAL CUT 4' BASE GRASSED SWALE
(Not to Scale)



FROM STA. 121+00 TO STA. 125+50 -L- RT

DETAIL 6

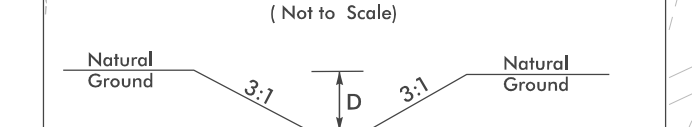
TOE PROTECTION
(Not to Scale)



Type of Liner = Class B Rip-Rap
EST. 59 TONS
EST. 176 SYGF
FROM STA. 126+56 TO STA. 127+78 -L- LT

DETAIL 15

STANDARD 6' BASE DITCH
(Not to Scale)



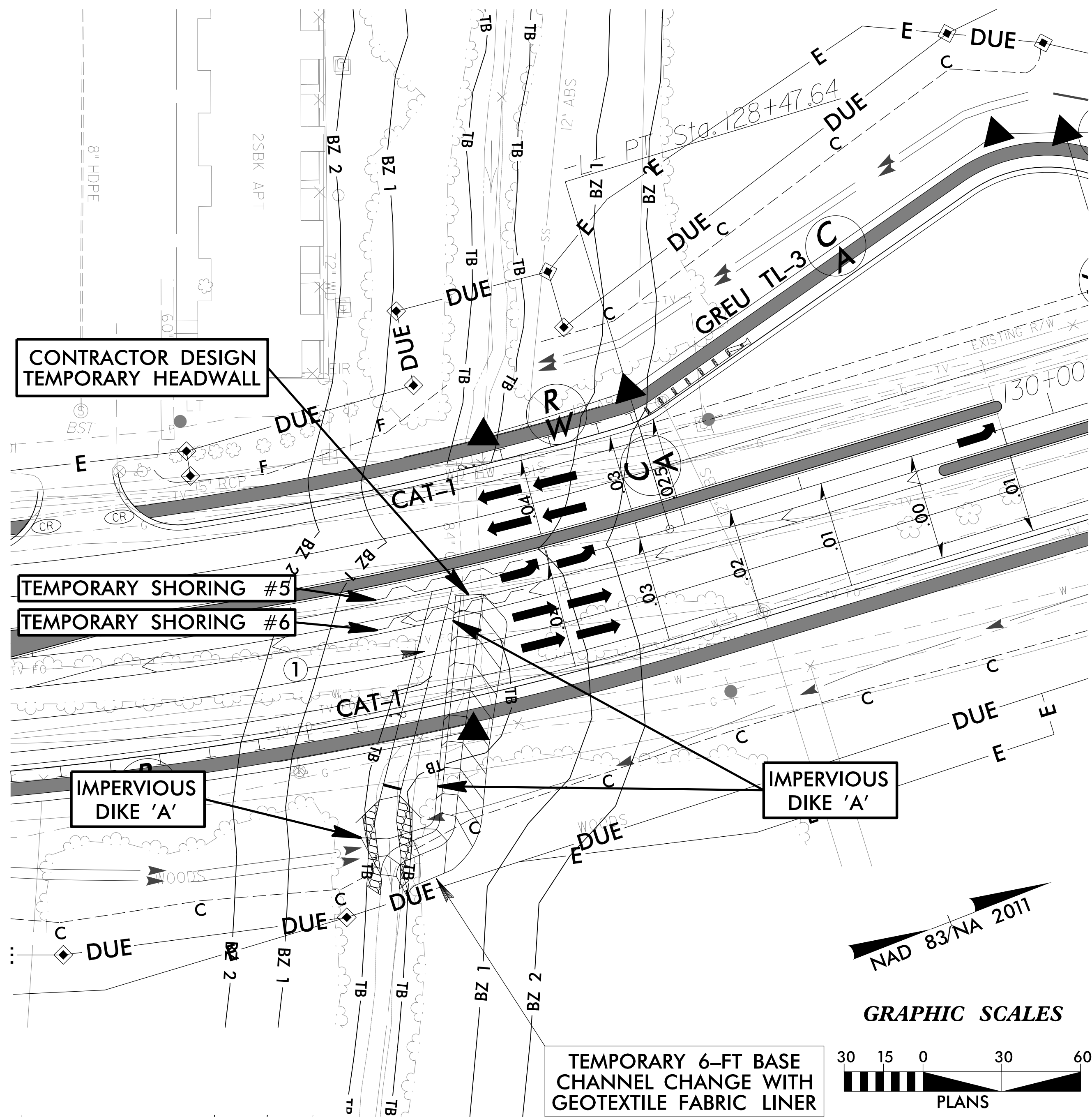
FROM STA. 115+50 TO STA. 115+50 -L- RT, DDE=18' CY

SEE SHEET 22 FOR -L- PROFILE

CULVERT CONSTRUCTION SEQUENCE STA. 127+58 -L-

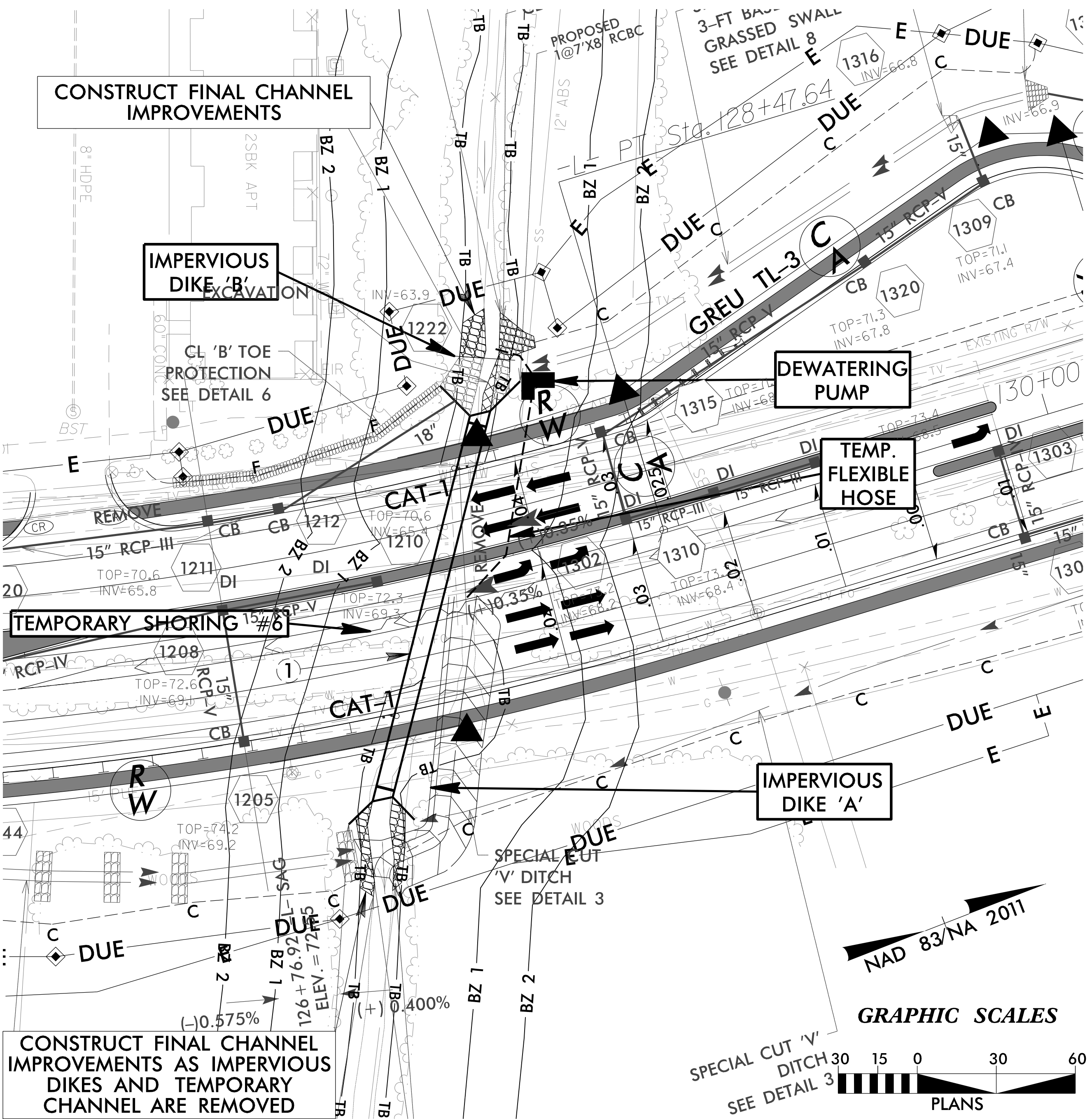
PHASE I

1. UTILIZE PUMP AROUND OPERATION AND SPECIAL STILLING BASINS DURING CULVERT CONSTRUCTION AS DIRECTED BY THE ENGINEER.
2. REMOVE 10 LF OF EXISTING 84" CMP AND INSTALL TEMPORARY HEADWALL AND /OR SHORING.
3. INSTALL IMPERVIOUS DIKE 'A' FOR PHASE I AS SHOWN IN THE PLAN.
4. CONSTRUCT TEMPORARY 6-FT BASE GEOTEXTILE FABRIC LINED CHANNEL CHANGE AS SHOWN ON THE PLANS.
5. CONSTRUCT 82'11" LF OF BARREL NO. 1, RCBC, HEADWALL, WINGWALL, SILL AND CHANNEL IMPROVEMENTS AS SHOWN ON PLANS.
6. BACKFILL CULVERT BARREL BETWEEN THE SILLS AS DIRECTED BY THE ENGINEER.



PHASE IA

1. UTILIZE PUMP AROUND OPERATION AND SPECIAL STILLING BASINS DURING CULVERT CONSTRUCTION AS DIRECTED BY THE ENGINEER.
2. CONSTRUCT PARTIAL FINAL CHANNEL IMPROVEMENTS AS SHOWN ON PLANS.
3. INSTALL IMPERVIOUS DIKES 'B' AND UTILIZE PUMP AROUND OPERATION. REMOVE THE REMAINDER OF EXISTING 84" CMP.
4. AFTER EXISTING 84" CMP IS REMOVED, REMOVE TEMPORARY DIVERSION CHANNEL AND IMPERVIOUS DIKE 'A'. COMPLETE CHANNEL IMPROVEMENTS SHOWN ON PLANS.



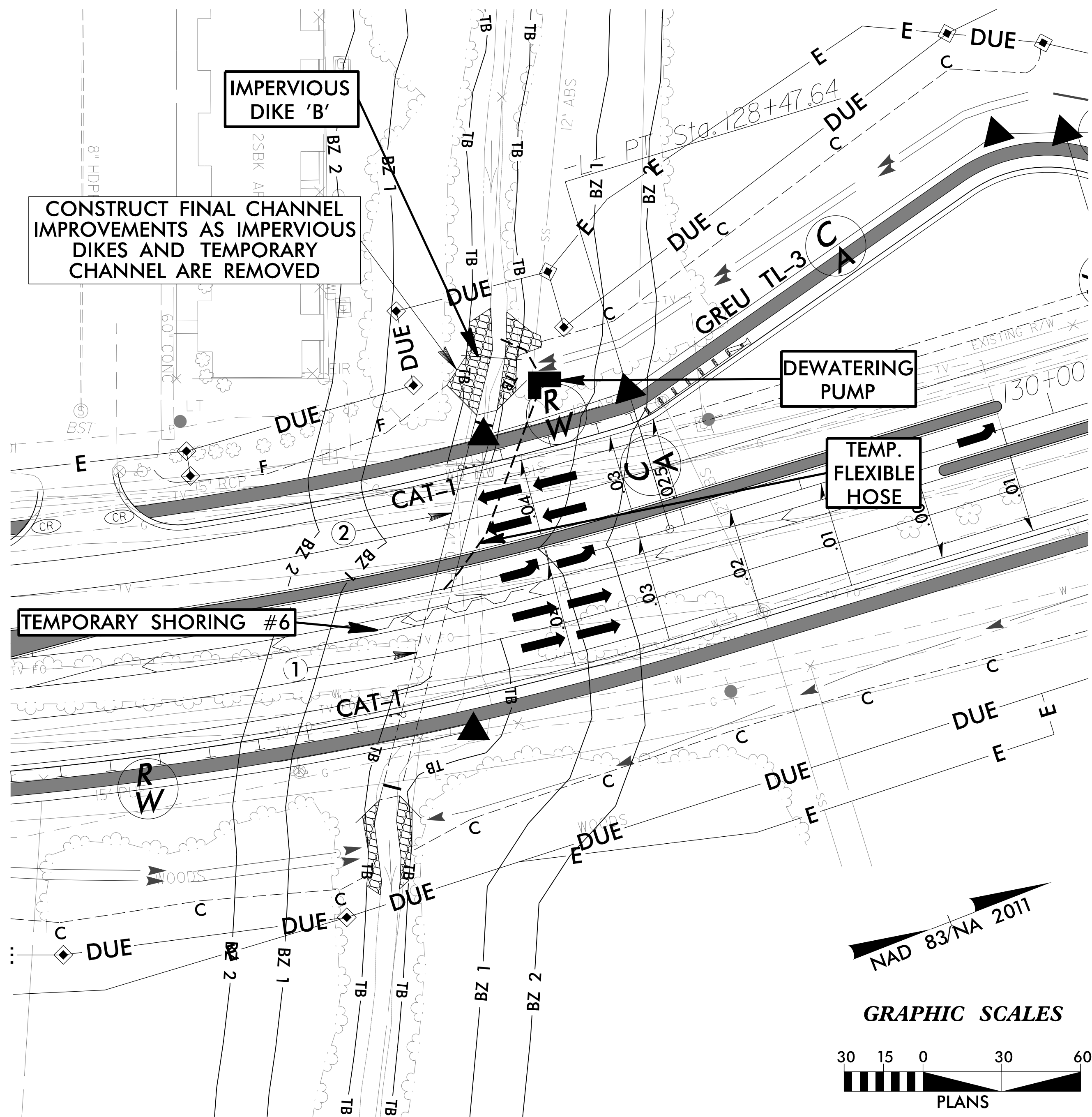
8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-5875	EC-12B /CONST.12
TRANSYSTEMS	
1 Glenwood Avenue Raleigh, NC 27603 Tel:919.789.9977 Fax:919.789.9591 License: F-0453	

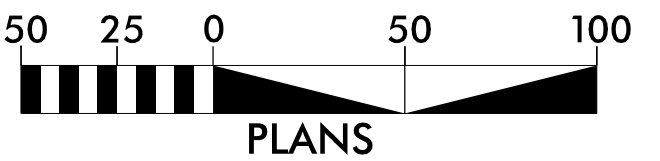
CULVERT CONSTRUCTION SEQUENCE STA. 127+58 -L-

PHASE II

1. UTILIZE PUMP AROUND OPERATION AND SPECIAL STILLING BASINS DURING CULVERT CONSTRUCTION AS DIRECTED BY THE ENGINEER.
2. CONSTRUCT 71'11" LF OF BARREL NO. 2, RCBC, HEADWALL, WINGWALL, SILL AND CHANNEL IMPROVEMENTS.
3. REMOVE IMPERVIOUS DIKE 'B'. COMPLETE CHANNEL IMPROVEMENTS SHOWN ON PLANS.
4. UPON STABILIZATION, REMOVE CULVERT PHASING EROSION CONTROL MEASURES AND INSTALL FINAL PHASE EROSION CONTROL AS SHOWN ON EC-26 /CONST. 12.



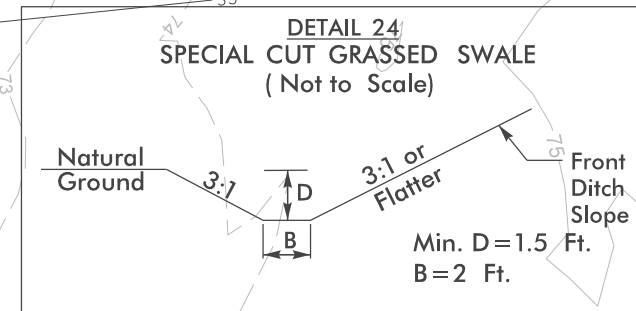
GRAPHIC SCALES



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 13

PROPOSED HANDRAIL (SEE DETAIL 2C-7)
-L- STA. 127+55.00 TO STA. 128+35.00 52.25' LT.

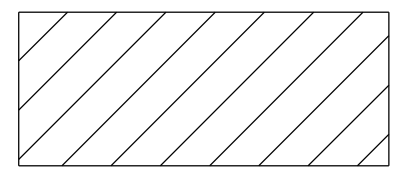


-L-
PI Sta 126+58.61
 $\Delta = 16' 47'' 01.2''$ (LT)
D = 4' 24' 26.5"
L = 380.8'
T = 191.78'
R = 1,300.00'
SE = 0.04
RO = 144'

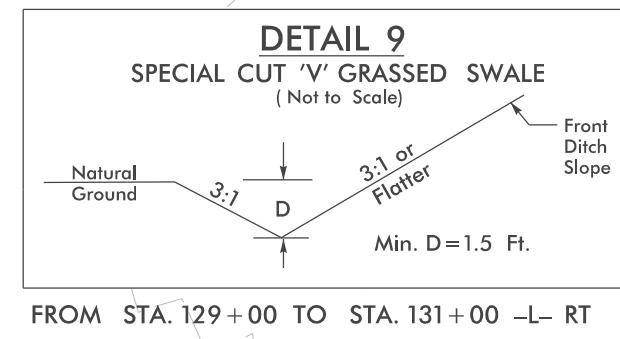
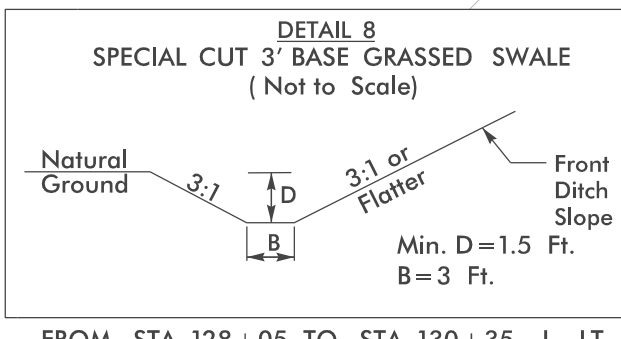
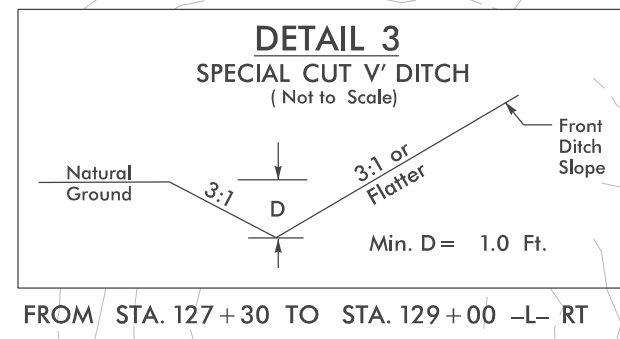
NAD 83/NA 2011

MATCHLINE -L- STA. 128+00.00
SEE SHEET 12

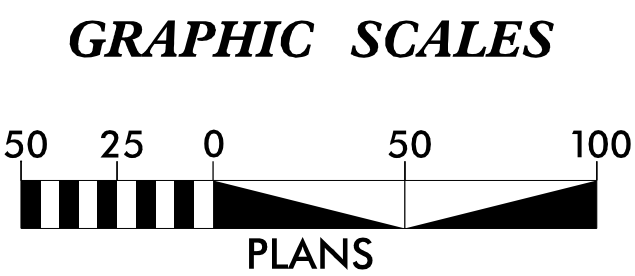
MATCHLINE -L- STA. 137+00.00
SEE SHEET 14



ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS



SEE SHEET 22 FOR -L- PROFILE

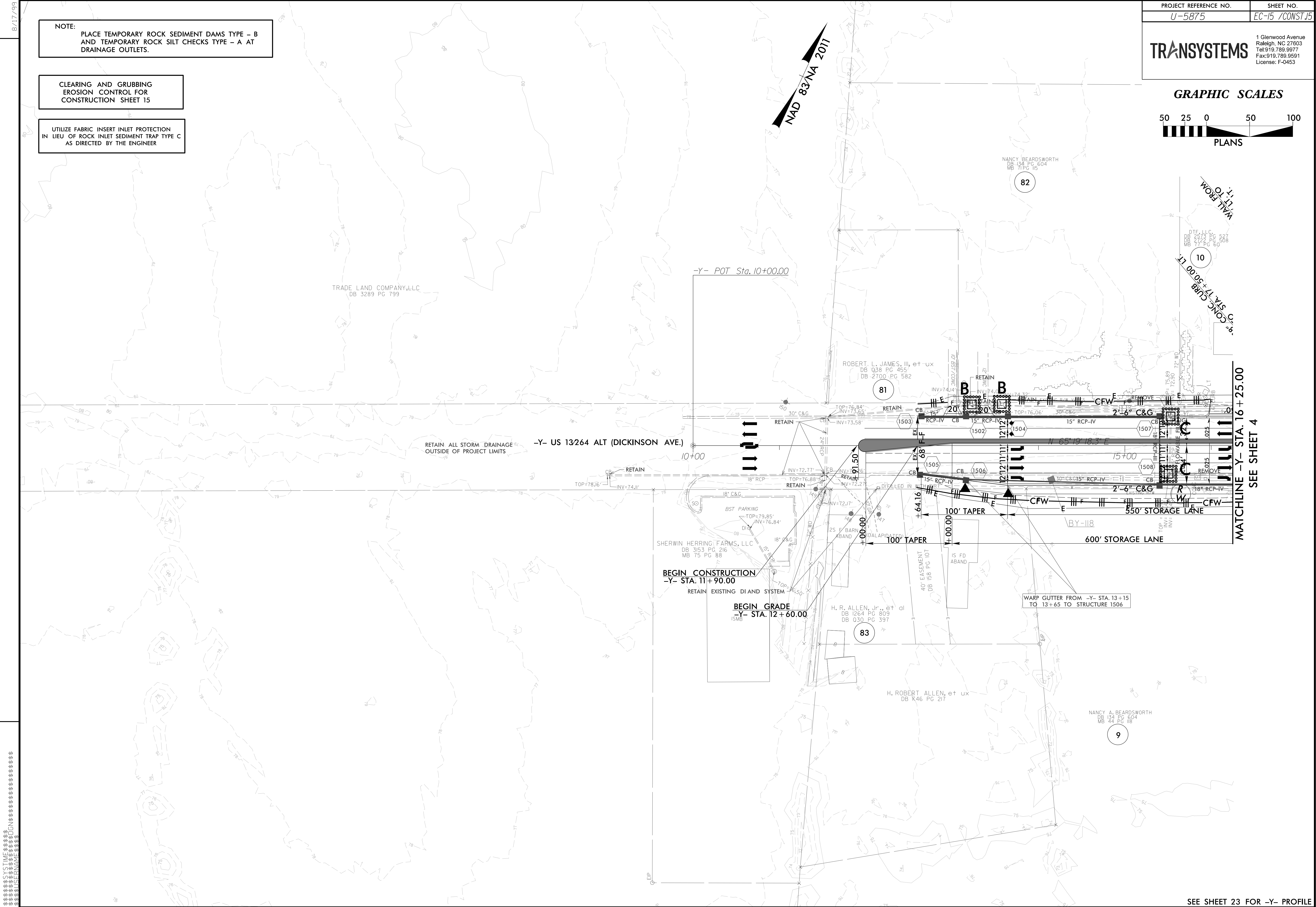


NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 15

UTILIZE FABRIC INSERT INLET PROTECTION
IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C
AS DIRECTED BY THE ENGINEER

REVISIONS



MATCHLINE -Y- STA. 16+25.00
SEE SHEET 4

SEE SHEET 23 FOR -Y- PROFILE

8/17/99

REVISIONS

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 16

UTILIZE FABRIC INSERT INLET PROTECTION
IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C
AS DIRECTED BY THE ENGINEER

-Y-
PI Sta 26+48.19
 $\Delta = 0^\circ 29' 15.4" (LT)$
 $D = 0' 17' 11.3"$
 $L = 170.21'$
 $T = 85.10'$
 $R = 20,000.00'$
 $SE = NC$

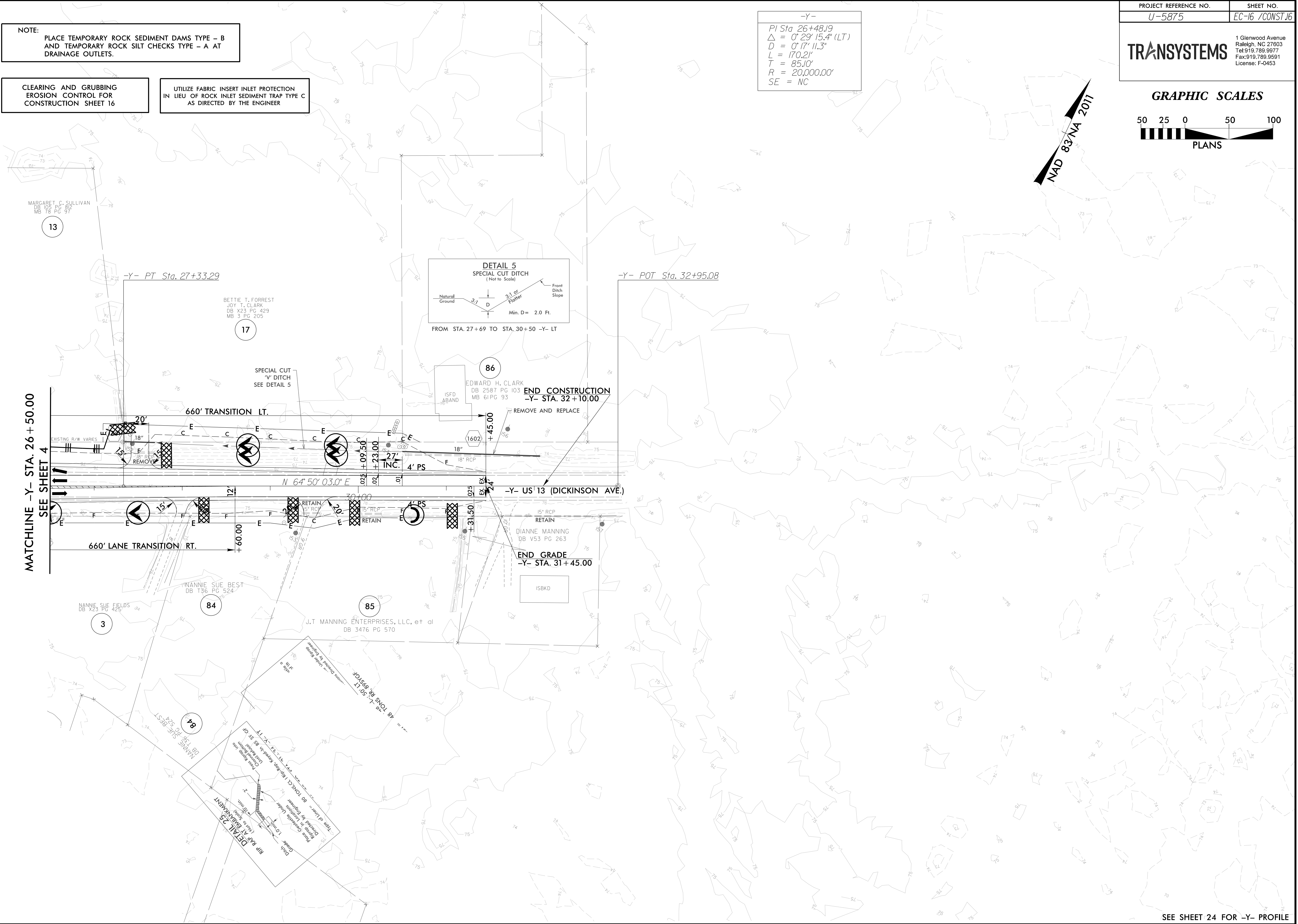
PROJECT REFERENCE NO.	SHEET NO.
U-5875	EC-16 /CONST.16

TRANSYSTEMS

1 Glenwood Avenue
Raleigh, NC 27603
Tel: 919.789.9977
Fax: 919.789.9991
License: F-0453

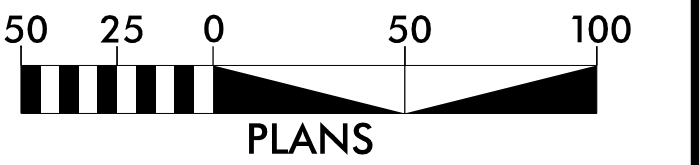
GRAPHIC SCALES

50 25 0 50 100
PLANS



SEE SHEET 24 FOR -Y- PROFILE

GRAPHIC SCALES



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

UTILIZE FABRIC INSERT INLET PROTECTION
IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C
AS DIRECTED BY THE ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 17

-Y8-
PI Sta 29+57.55
 $\Delta = 5'10''55.0''$ (RT)
 $D = 0'29'38.1''$
 $L = 1,049.13'$
 $T = 524.92'$
 $R = 11,600.00'$

NAD 83/NA 2011

MATCHLINE -Y8- STA. 19+00.00
SEE SHEET 14

-Y8- PC Sta. 24+32.62

END PROPOSED SIDEWALK
-Y8- STA. 24+80.61 LT.

-BY8-24 PITT/COUNTY MEMORIAL HOSPITAL, INC.
DB 525 PG 154
MB 43 PG 180

END RESURFACING
END CONSTRUCTION
-Y8- STA. 26+75.00

-Y8- SR 1467 (STANTONSURG RD)

END GRADE
-Y8- STA. 24+70.00
END PROPOSED 2'-6" C & G
-Y8- STA. 25+15.00 RT.

END PROPOSED SIDEWALK
-Y8- STA. 25+40.78 RT.

8/17/99

REVISIONS

CONSTRUCTION SHEET 17

8/17/99

-L-		-Y-
PI Sta 20+06.96 Δ = 46° 47' 24.7" (RT) D = 6' 04' 56.5" L = 769.28' T = 407.54' R = 942.00' *SE = 0.01 RO = 72'	PI Sta 33+70.29 Δ = 39° 21' 55.9" (RT) D = 2' 02' 46.6" L = 1,923.76' T = 1,001.60' R = 2,800.00' SE = 0.03 RO = 108'	PI Sta 26+48.19 Δ = 0° 29' 15.4" (LT) D = 0' 17' 11.3" L = 170.21' T = 85.10' R = 20,000.00' SE = NC

US 13264A DICKINSON AVE.	
24500 29500 24500 29500	26413 SR 1203 35100 ALLEN RD.
US 264A GREENVILLE BLVD. SW	US 13 DICKINSON AVE.
22550 25300	11988 15300
7500 8000	3175 5800
1188 1500	
2025 ADT 2040 ADT	

★ SIGNAL UPGRADE

DESIGN NOTE:
FOR ALL MINIMUM DEPTH CATCH BASINS LABELED IN THE PLAN
SET AS "MIN. DEPTH CB", SEE SPECIAL DETAIL 2C-5

PROJECT REFERENCE NO.	SHEET NO.
U-5875	EC-18 /CONST.4
TRANSYSTEMS	
1 Glenwood Avenue Raleigh, NC 27603 Tel:919.789.9977 Fax:919.789.9591 License: F-0453	

GRAPHIC SCALES



FINAL DESIGN PHASE
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

UTILIZE FABRIC INSERT INLET PROTECTION
IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C
AS DIRECTED BY THE ENGINEER

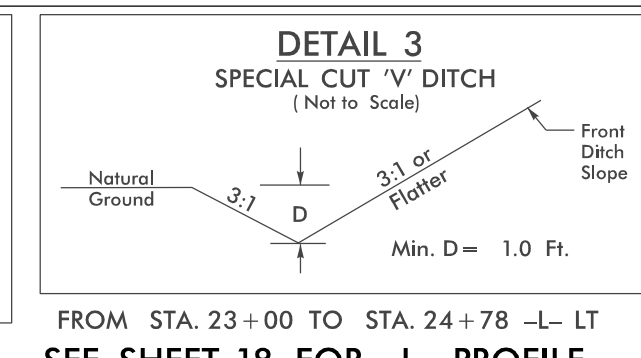
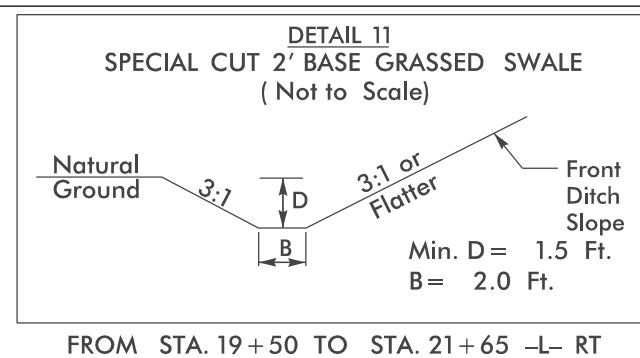
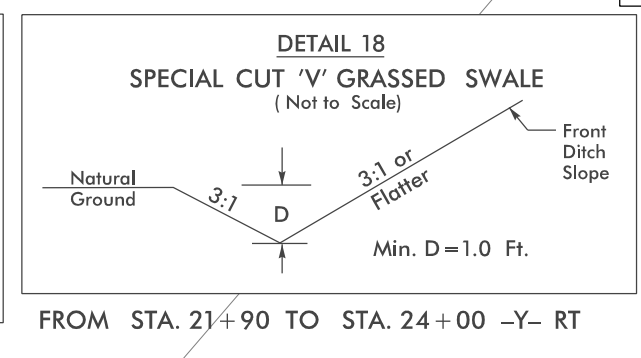
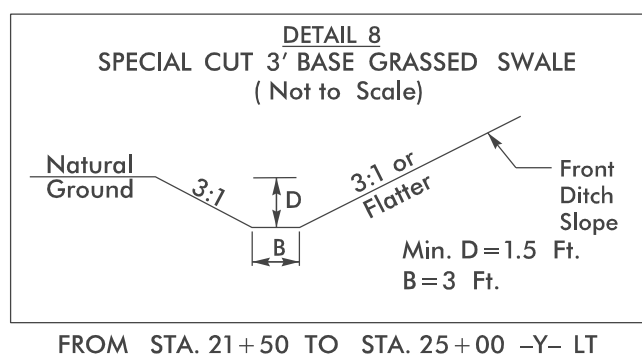
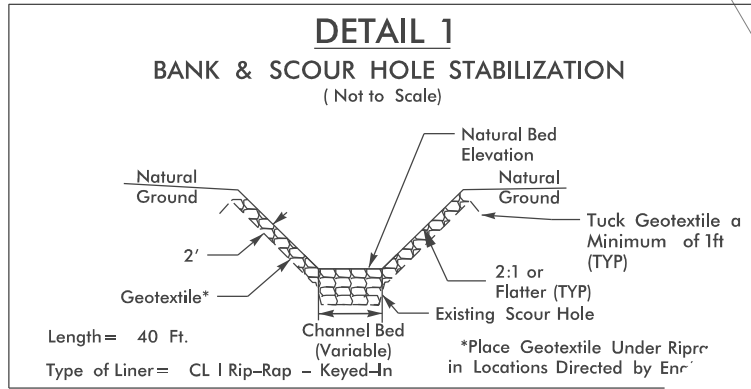
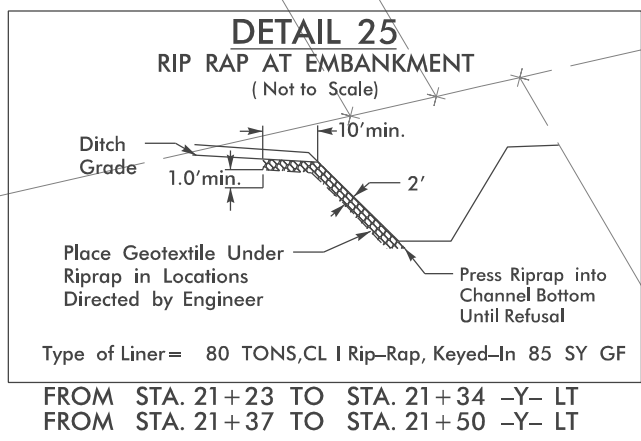
-L- POT Sta. 10+00.00

RETAIN EXISTING CURB & GUTTER
-L- STA. 12+50.00 TO STA. 13+20.46 LT.

BEGIN PROJECT U-5875
-L- STA. 12+50.00

RETAIN EXISTING CURB & GUTTER
-L- STA. 12+50.00 TO STA. 13+20.46 RT.

-Y- PC Sta. 25+63.09



NOTE: USE 6' BERM FROM -Y- STA. 17+84.95 TO -L- STA. 20+56.74 LT.
WITH 2:1 SLOPE AT -L- STA. 21+50 LT. PROVIDE ROCK PLATING
FROM -L- STA. 21+00 TO STA. 22+00 LT.

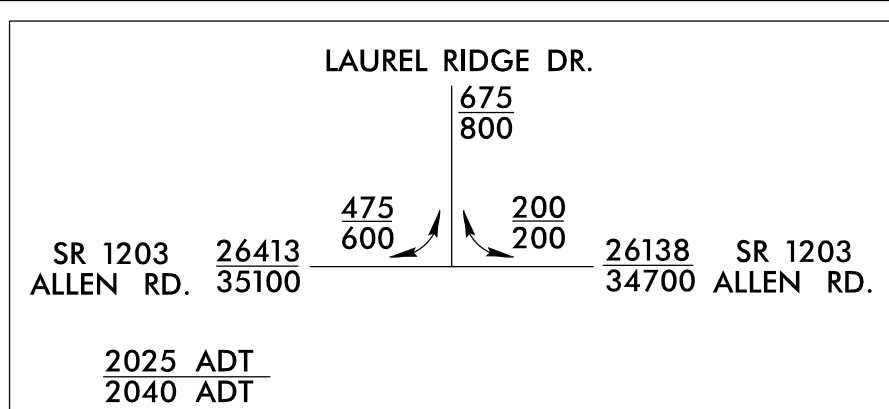
SEE SHEET 18 FOR -L- PROFILE
SEE SHEET 23 AND 24 FOR -Y- PROFILE
SEE SHEET 2B-1 FOR INTERSECTION DETAIL OF -L- AND -Y-

8/17/99

REVISIONS

8/17/99

-L-	-YI-
PI Sta 33+70.29 $\Delta = 39' 21'' 55.9''$ (RT) $D = 2' 02'' 46.6''$ $L = 1,923.76'$ $T = 1,001.60'$ $R = 2,800.00'$ $SE = 0.03$ $RO = 108'$	PI Sta 11+10.08 $\Delta = 4' 47'' 02.8''$ (LT) $D = 2' 10'' 27.4''$ $L = 220.03'$ $T = 110.08'$ $R = 2,635.15'$ $SE = SEE PLANS$



NAD 83/NA 2011

PITT LAND
DEVELOPMENT, LLC.
DB 1750 PG 47
MB 66 PG 177

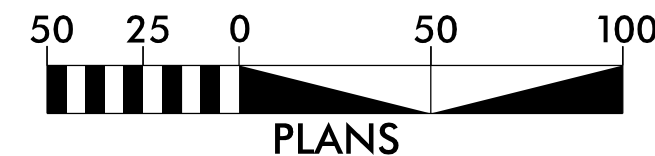
PROJECT REFERENCE NO.
U-5875

SHEET NO.
EC-19 /CONST.5

1 Glenwood Avenue
Raleigh, NC 27603
Tel:919.789.9977
Fax:919.789.9591
License: F-0453

TRANSYSTEMS

GRAPHIC SCALES



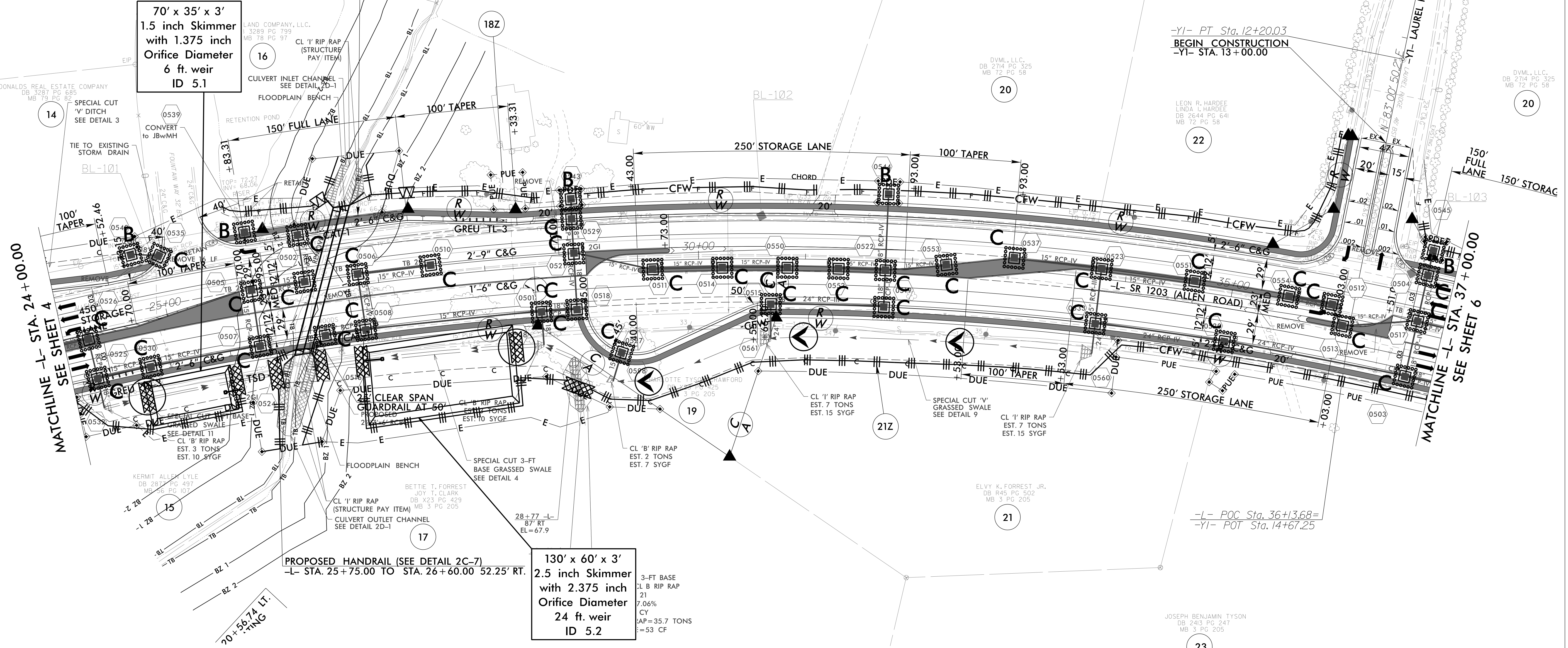
FINAL DESIGN PHASE
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

70' x 35' x 3'
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
6 ft. weir
ID 5.1

PROPOSED GALVANIZED PEDESTRIAN SAFETY
RAIL (SEE DETAIL 2C-7)
-L- STA. 26+35.00 TO STA. 27+25.00 64.25' LT.

NANNIE SUE CRAWFORD BEST FIELDS
DB 3 PG 205
DEED 000C93

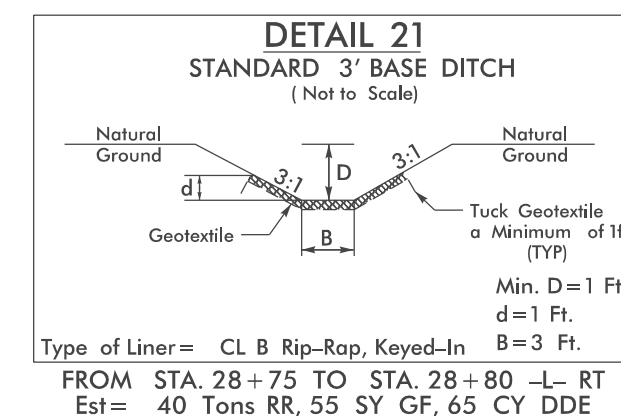
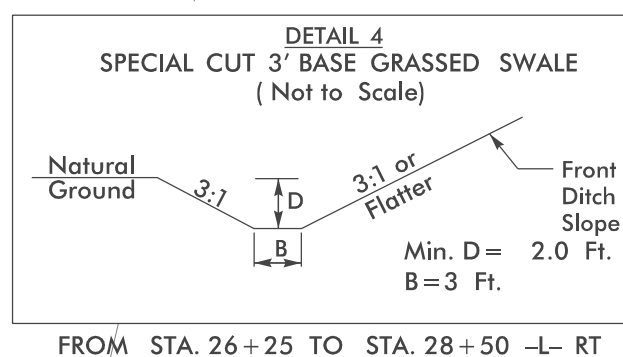
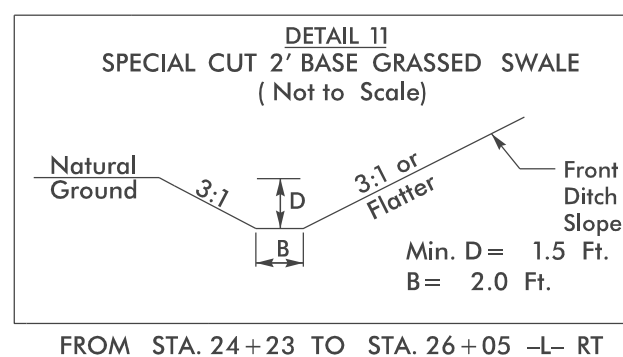
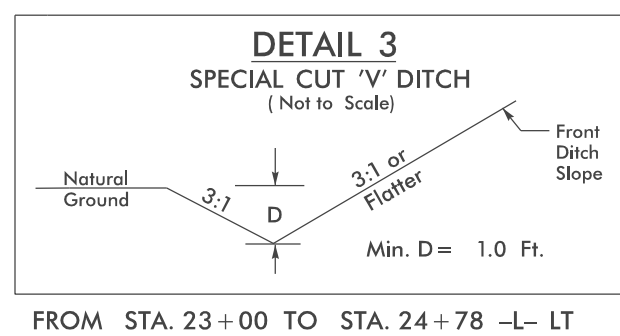
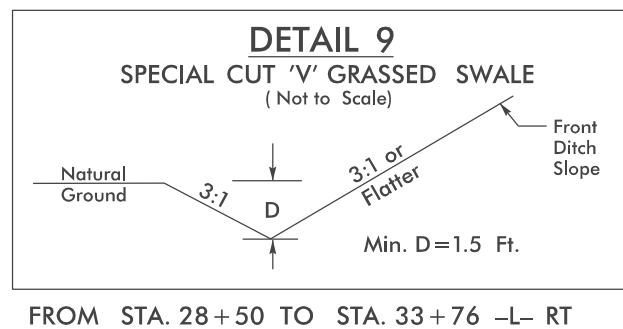
18



PROPOSED HANDRAIL (SEE DETAIL 2C-7)
-L- STA. 25+75.00 TO STA. 26+60.00 52.25' RT.

130' x 60' x 3'
2.5 inch Skimmer
with 2.375 inch
Orifice Diameter
24 ft. weir
ID 5.2

3-Ft BASE
CL B RIP RAP
21
7.06%
CY
CAP=35.7 TONS
=53 CF



SEE SHEET 18 FOR -L- PROFILE
SEE SHEET 2B-1 FOR INTERSECTION DETAIL OF -L- AND -YI-

8/17/99

REVISIONS

CONSTRUCTION LINE

FINAL DESIGN PHASE
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

-L-
PI Sta 33+70.29
 $\Delta = 39^{\circ} 21' 55.9" (RT)$
 $D = 2^{\circ} 02' 46.6"$
 $L = 1,923.76'$
 $T = 1,001.60'$
 $R = 2,800.00'$
 $SE = 0.03$
 $RO = 108'$

TEAKWOOD DR.
675
800
338 400 338 400 26138 SR 1203
ALLEN RD. 34700 34700 ALLEN RD.
2025 ADT
2040 ADT

PROJECT REFERENCE NO. U-5875
SHEET NO. EC-20 /CONST.6

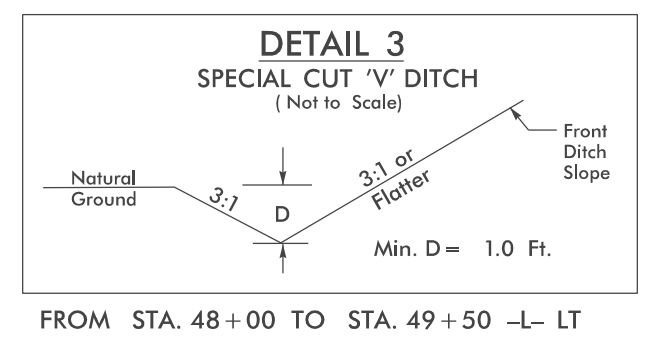
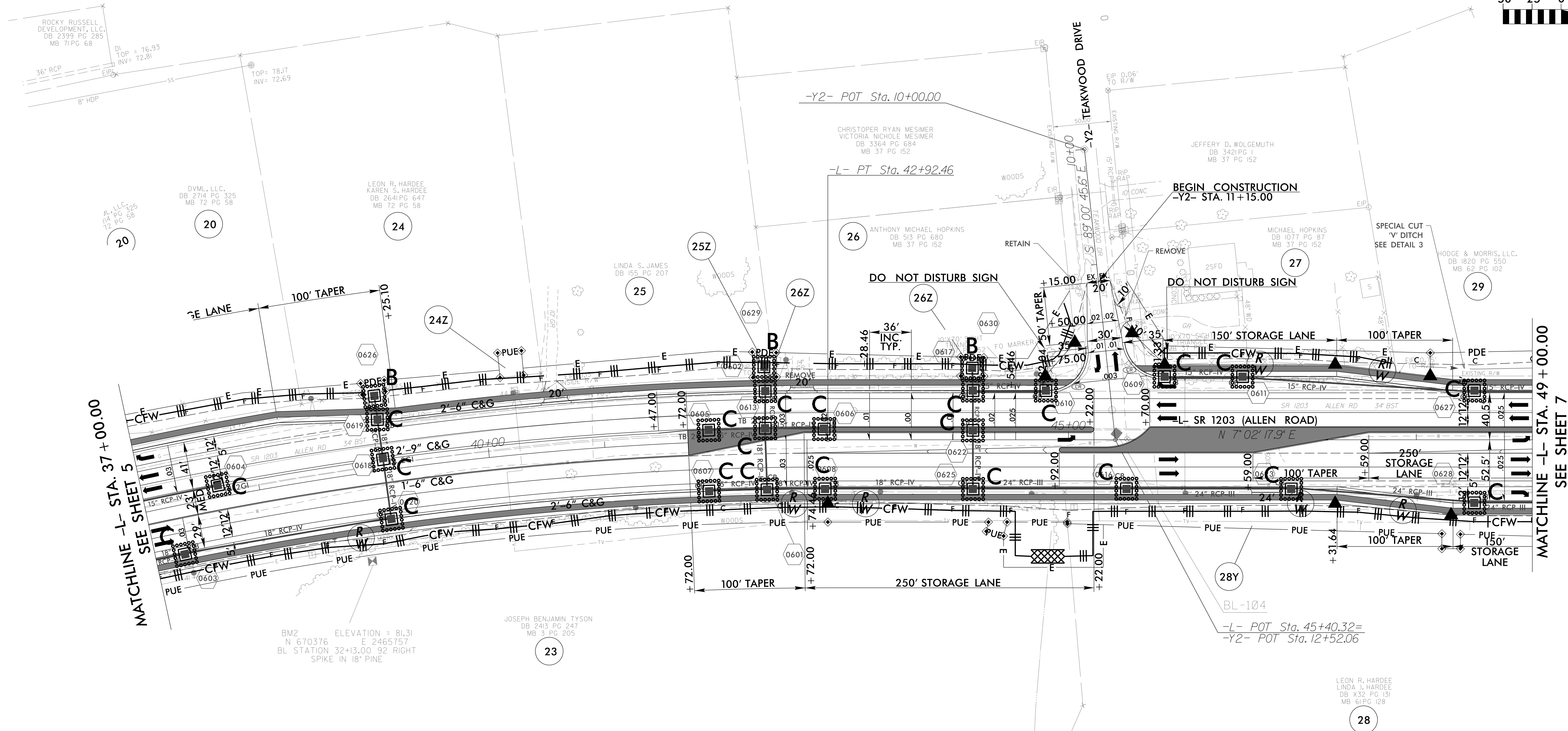
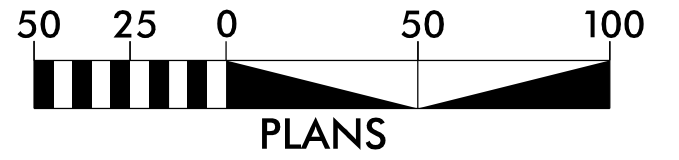
TRANSYSTEMS

1 Glenwood Avenue
Raleigh, NC 27603
Tel: 919.789.9977
Fax: 919.789.9591
License: F-0453

NAD 83/NA 2011

TOP= 77.1
INV= 71.1

GRAPHIC SCALES



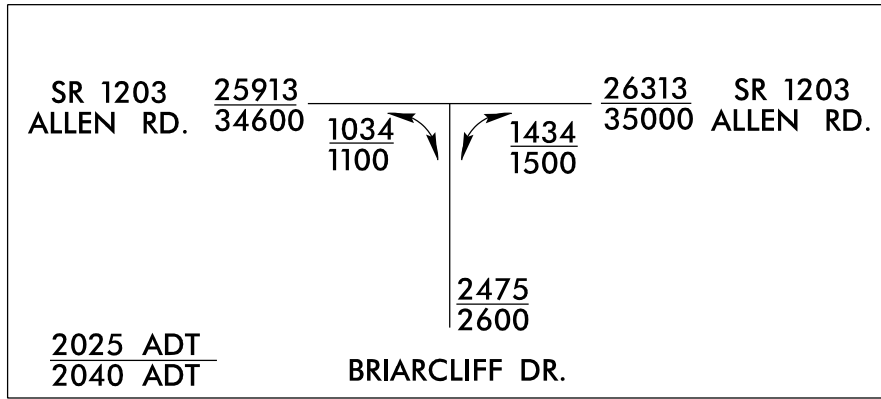
SEE SHEET 19 FOR -L- PROFILE
SEE SHEET 24 FOR -Y2- PROFILE

8/17/99

REVISIONS

CONSTRUCTION

-L-	-Y5-		
PI Sta 80+06.79 $\Delta = 5^{\circ} 01' 52.3" (LT)$ $D = 0^{\circ} 42' 58.3"$ $L = 702.49'$ $T = 351.47'$ $R = 8,000.00'$ $SE = NC$	PI Sta 12+17.06 $\Delta = 2^{\circ} 17' 06.8" (LT)$ $D = 1^{\circ} 43' 45.5"$ $L = 132.15'$ $T = 66.08'$ $R = 3,313.21'$	PI Sta 13+46.46 $\Delta = 3^{\circ} 02' 20.9" (LT)$ $D = 2^{\circ} 24' 00.3"$ $L = 126.63'$ $T = 63.33'$ $R = 2,387.25'$	



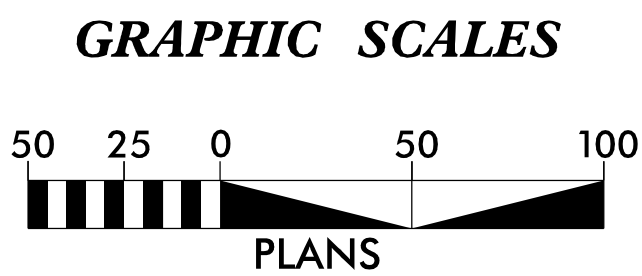
★ NEW SIGNAL

PROJECT REFERENCE NO.
U-5875

SHEET NO.
EC-23 /CONST.9

TRANSYSTEMS

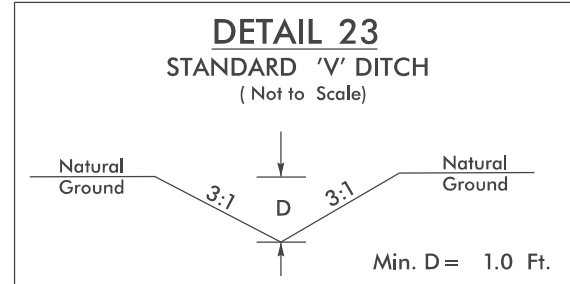
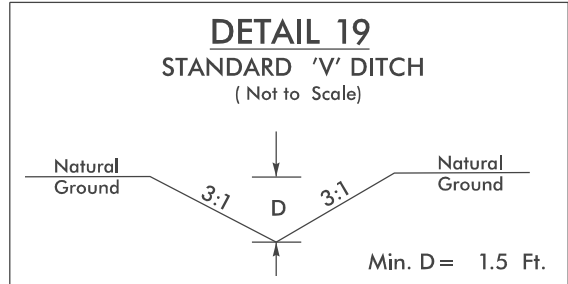
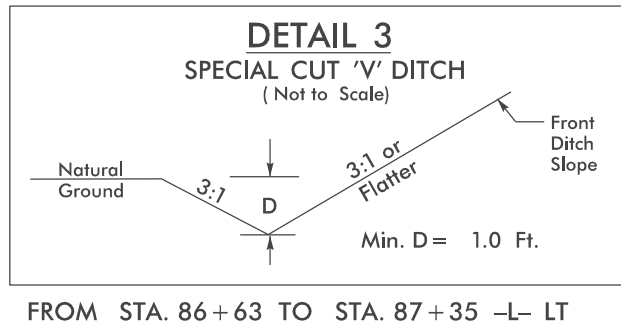
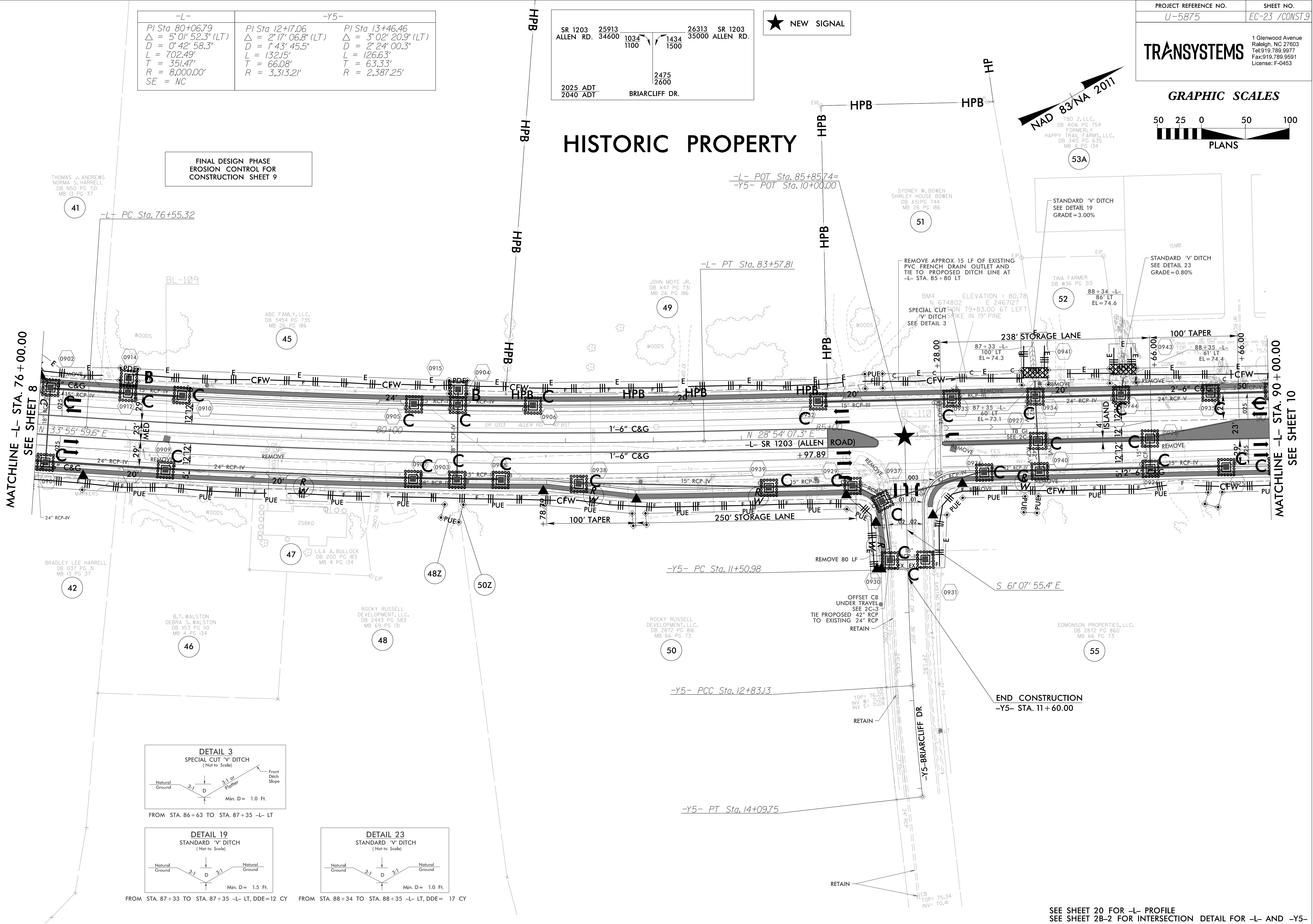
1 Glenwood Avenue
Raleigh, NC 27603
Tel: 919.789.9977
Fax: 919.789.9591
License: F-0453



FINAL DESIGN PHASE
EROSION CONTROL FOR
CONSTRUCTION SHEET 9

MATCHLINE -L- STA. 76+00.00
SEE SHEET 8

MATCHLINE -L- STA. 90+00.00
SEE SHEET 10



SEE SHEET 20 FOR -L- PROFILE
SEE SHEET 2B-2 FOR INTERSECTION DETAIL FOR -L- AND -Y5-

8/17/99

REVISIONS

FINAL DESIGN PHASE
EROSION CONTROL FOR
CONSTRUCTION SHEET 10

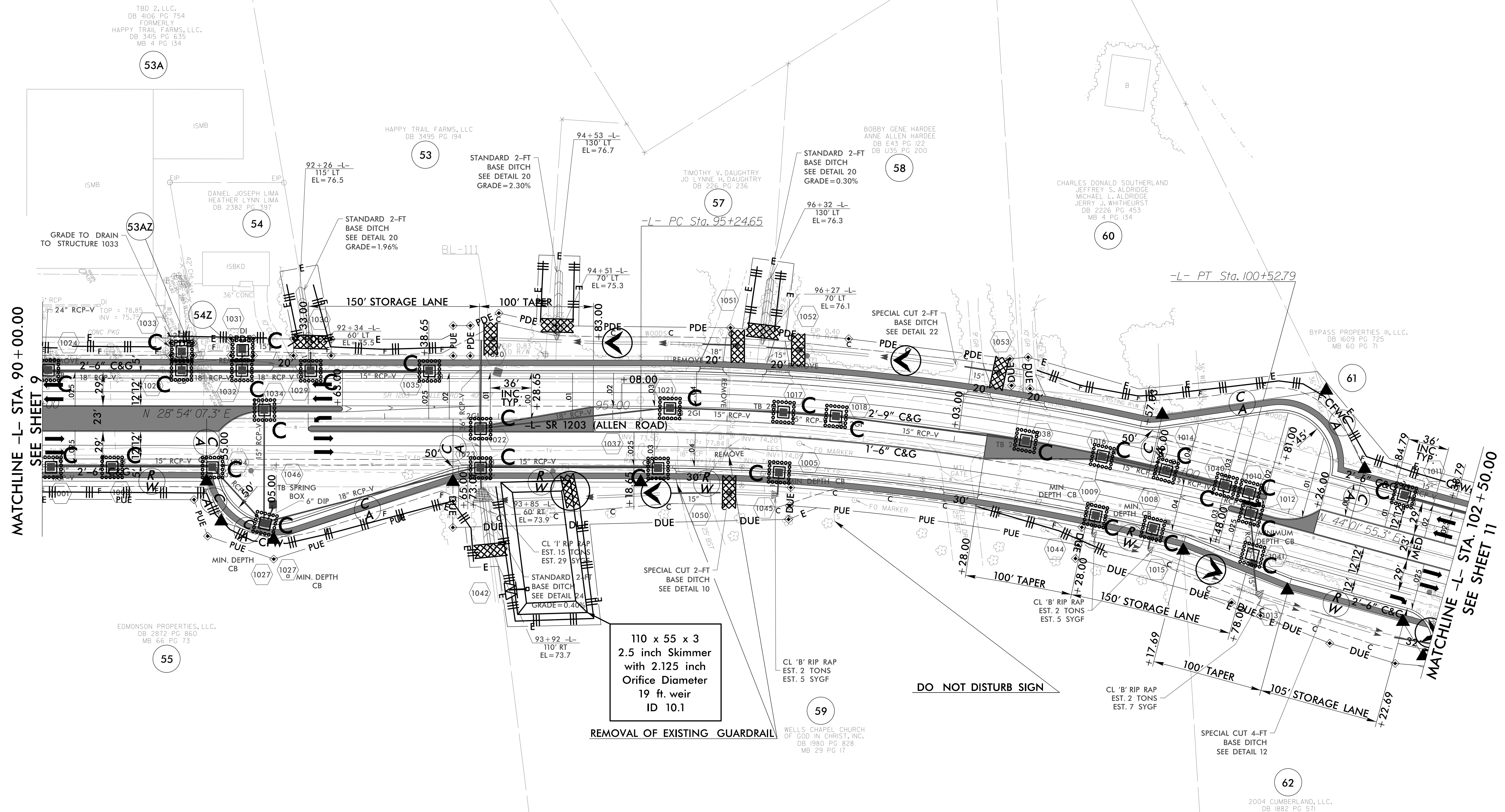
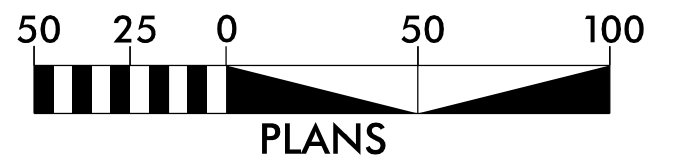
-L-
PI Sta 97+90.27
 $\Delta = 15' 07" 48.0" (RT)$
 $D = 2' 51" 53.2"$
 $L = 528.14'$
 $T = 265.61'$
 $R = 2,000.00'$
 $SE = 0.04$
 $RO = 144'$

PROJECT REFERENCE NO. SHEET NO.
U-5875 EC-24 /CONST JO

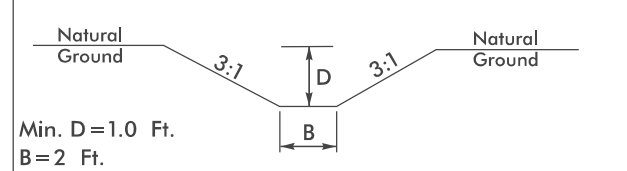
TRANSYSTEMS

1 Glenwood Avenue
Raleigh, NC 27603
Tel: 919.789.9977
Fax: 919.789.9591
License: F-0453

GRAPHIC SCALES

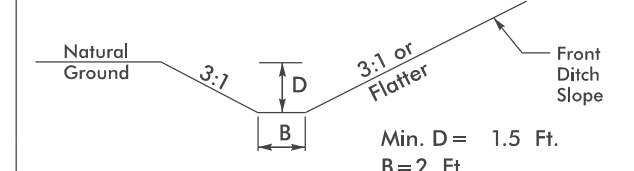


DETAIL 20
STANDARD 2' BASE DITCH
(Not to Scale)



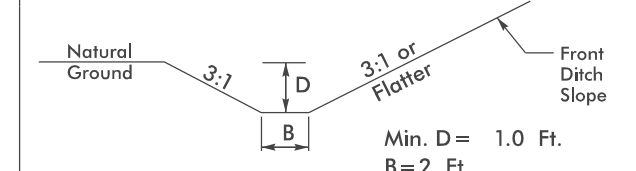
FROM STA. 92+26 TO STA. 92+34 -L- LT, DDE=13 CY
FROM STA. 94+51 TO STA. 94+53 -L- LT, DDE=11 CY
FROM STA. 96+27 TO STA. 96+32 -L- LT, DDE=10 CY

DETAIL 22
SPECIAL CUT 2' BASE DITCH
(Not to Scale)



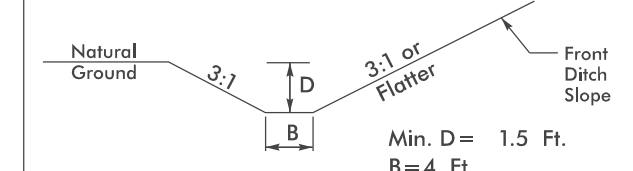
FROM STA. 93+85 TO STA. 98+50 -L- LT

DETAIL 10
SPECIAL CUT 2' BASE DITCH
(Not to Scale)



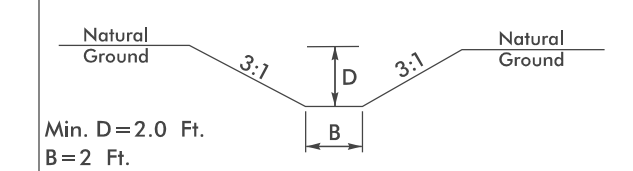
FROM STA. 93+85 TO STA. 96+50 -L- RT

DETAIL 12
SPECIAL CUT 4' BASE DITCH
(Not to Scale)



FROM STA. 99+35 TO STA. 106+00 -L- RT

DETAIL 24
STANDARD 2' BASE DITCH
(Not to Scale)



FROM STA. 93+85 TO STA. 93+92 -L- RT, DDE=23.0 CY

SEE SHEET 21 FOR -L- PROFILE