TIP PROJECT: U-3613B

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

PITT COUNTY

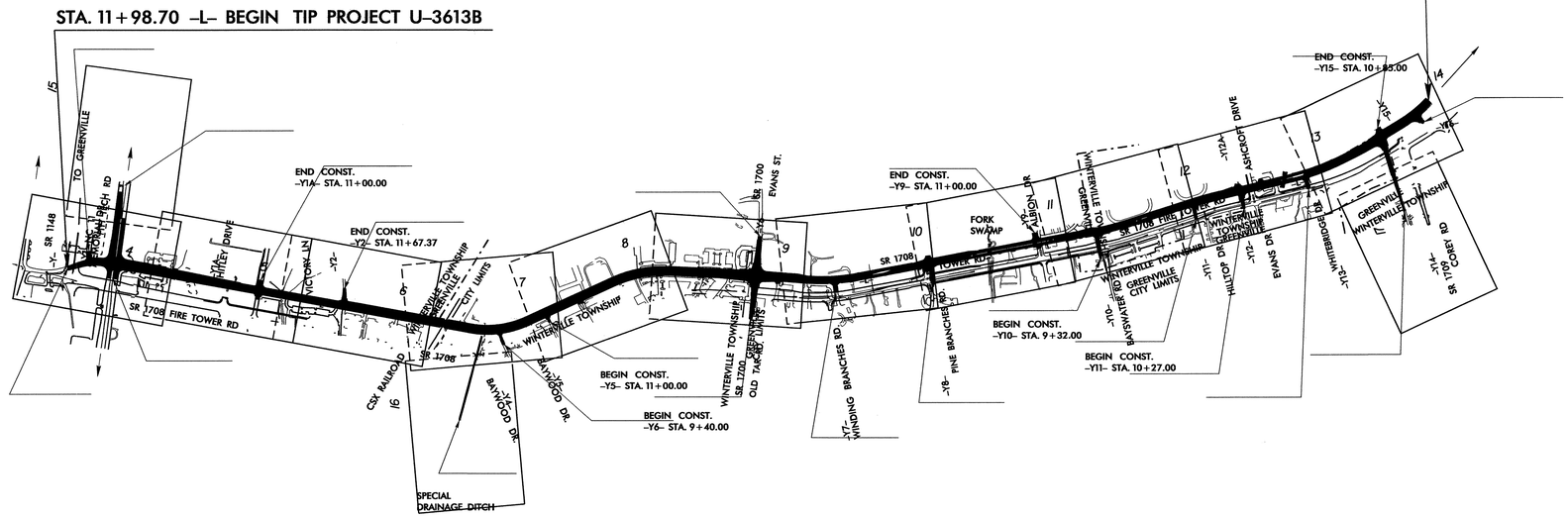
LOCATION: GREENVILLE – SR 1708 (FIRE TOWER ROAD) FROM WEST OF NC 11–903 TO EAST OF SR 1709 (COREY RD).
TYPE OF WORK: GRADING, DRAINAGE, PAVING, CURB & GUTTER, CULVERT, RETAINING WALLS, GUARDRAIL AND SIGNALS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-3613B	EC-1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

STA. 11+98.70 –L– BEGIN TIP PROJECT U-3613B

STA. 151+70.00 –L– END TIP PROJECT U-3613B



EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
	Streambank Reforestation	
1630.03	Temporary Silt Ditch	TSD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.01	Riser Basin	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
1633.02	Temporary Rock Silt Check Type-B	
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	
	Rock Inlet Sediment Trap:	
1632.01	Type A	A OR A
1632.02	Type B	B OR B
1632.03	Type C	C OR C

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

0
PLANS
0
PROFILE (HORIZONTAL)
0
PROFILE (VERTICAL)

ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

Prepared In the Office of:

ROADSIDE ENVIRONMENTAL UNIT
1 South Wilmington St.
Raleigh, NC 27611

2002 STANDARD SPECIFICATIONS

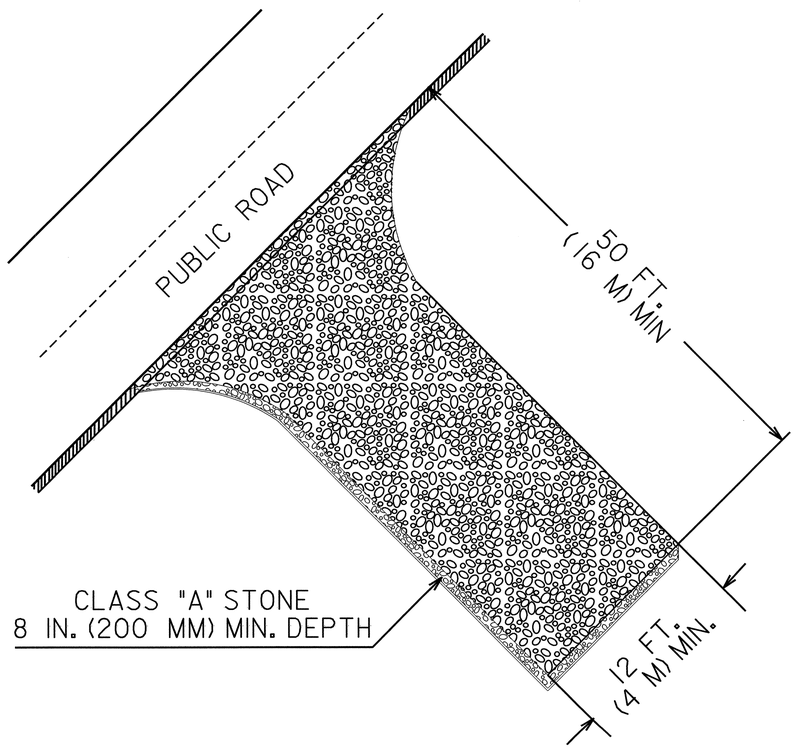
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"– Roadway Design Unit – N. C. Department of Transportation – Raleigh, N. C., dated January 20, 2002 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01	Temporary Silt Fence	1632.03	Rock Inlet Sediment Trap Type C
1606.01	Special Sediment Control Fence	1633.01	Temporary Rock Silt Check Type A
1622.01	Temporary Berms and Slope Drains	1633.02	Temporary Rock Silt Check Type B
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
1630.05	Temporary Diversion	1635.02	Rock Pipe Inlet Sediment Trap Type B

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
U-3613B	EC-2	
STATE PROJECT NO.	F.A. PROJ. NO.	DESCRIPTION

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE



NOTES:

1. TURNING RADIUS SUFFICIENT TO ACCOMODATE LARGE TRUCKS SHALL BE PROVIDED.
2. ENTRANCE(S) SHOULD BE LOCATED TO PROVIDE FOR UTILIZATION BY ALL CONSTRUCTION VEHICLES.
3. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE WILL BE NECESSARY.
4. ANY MATERIAL TRACKED ONTO THE ROADWAY MUST BE CLEANED UP IMMEDIATELY.
5. GRAVEL CONSTRUCTION ENTRANCE SHALL BE LOCATED AT ALL POINTS OF INGRESS AND EGRESS UNTIL SITE IS STABILIZED. FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE MUST BE PROVIDED.
6. NUMBER AND LOCATION OF CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE ENGINEER

NOTE: FILTER FABRIC TO BE PLACED BENEATH STONE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
U-3613B	EC-3	

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION

SOIL STABILIZATION SUMMARY SHEET

MATTING

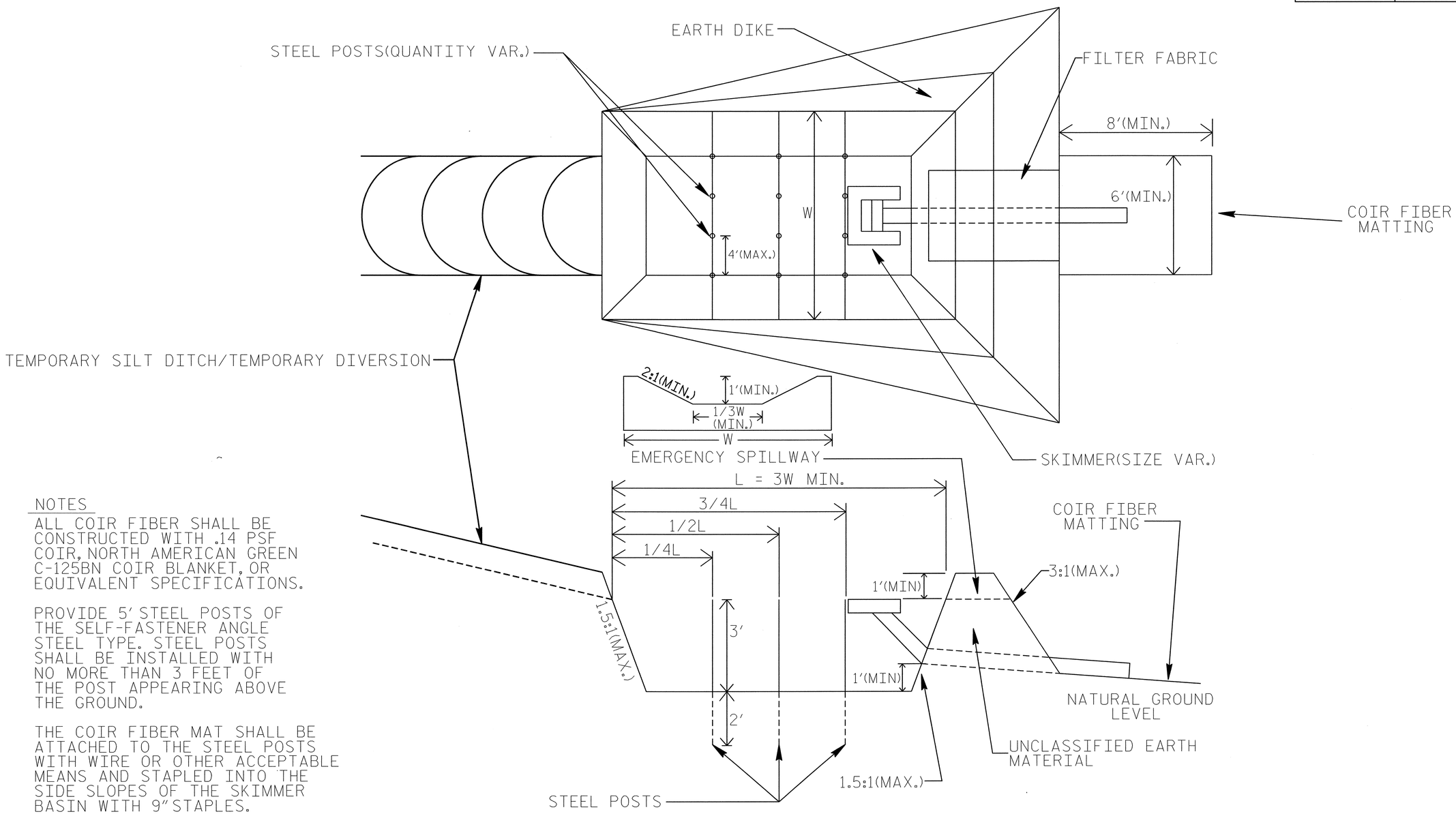
CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
5	L	33+35	33+80	LT	75
5	L	33+80	34+50	LT	90
6	L	34+50	35+50	LT	65
				SUBTOTAL	230
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					
				TOTAL	230
				SAY	250

MATTING

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)

PROJECT REFERENCE NO.	SHEET NO.
U-3613B	EC-3A
R /W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SKIMMER BASIN WITH BAFFLES DETAIL



NOTES

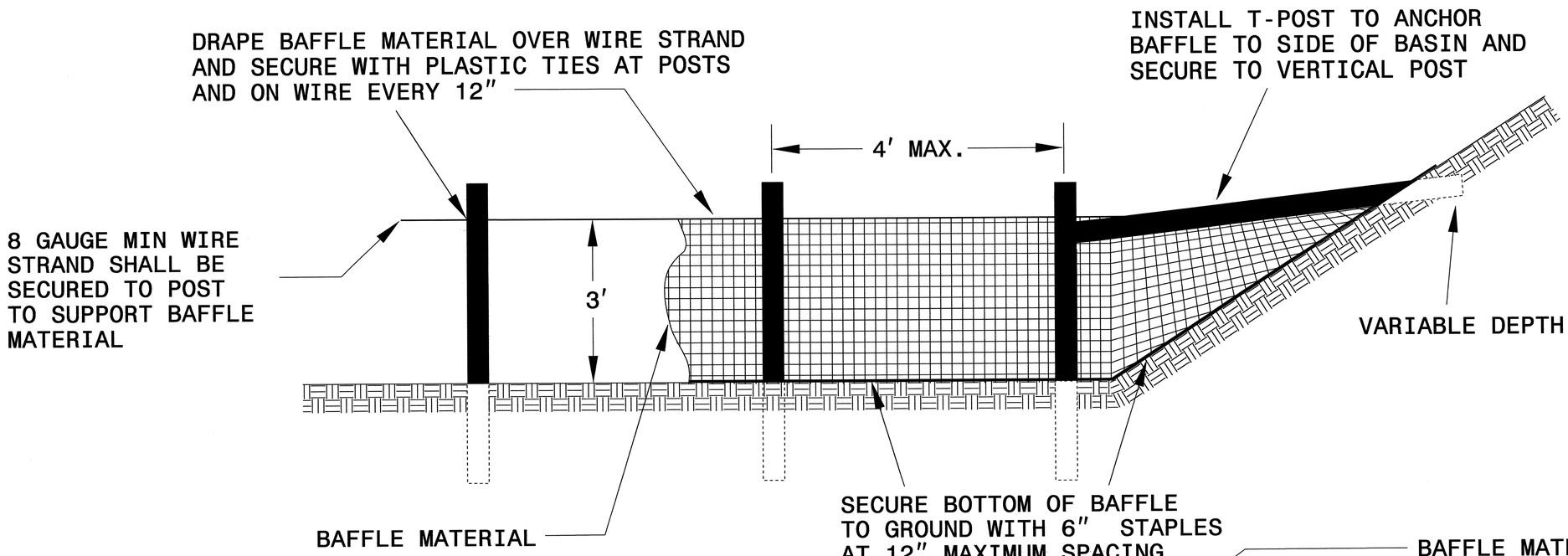
ALL COIR FIBER SHALL BE CONSTRUCTED WITH .14 PSF COIR, NORTH AMERICAN GREEN C-125BN COIR BLANKET, OR EQUIVALENT SPECIFICATIONS.

PROVIDE 5' STEEL POSTS OF THE SELF-FASTENER ANGLE STEEL TYPE. STEEL POSTS SHALL BE INSTALLED WITH NO MORE THAN 3 FEET OF THE POST APPEARING ABOVE THE GROUND.

THE COIR FIBER MAT SHALL BE ATTACHED TO THE STEEL POSTS WITH WIRE OR OTHER ACCEPTABLE MEANS AND STAPLED INTO THE SIDE SLOPES OF THE SKIMMER BASIN WITH 9" STAPLES.

PROJECT REFERENCE NO.	SHEET NO.
U-3613B	EC-3B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY SEDIMENT BAFFLE DETAIL



NOTES:

WIRE STRAND SUPPORT SHALL BE 8 GAUGE MINIMUM WIRE.

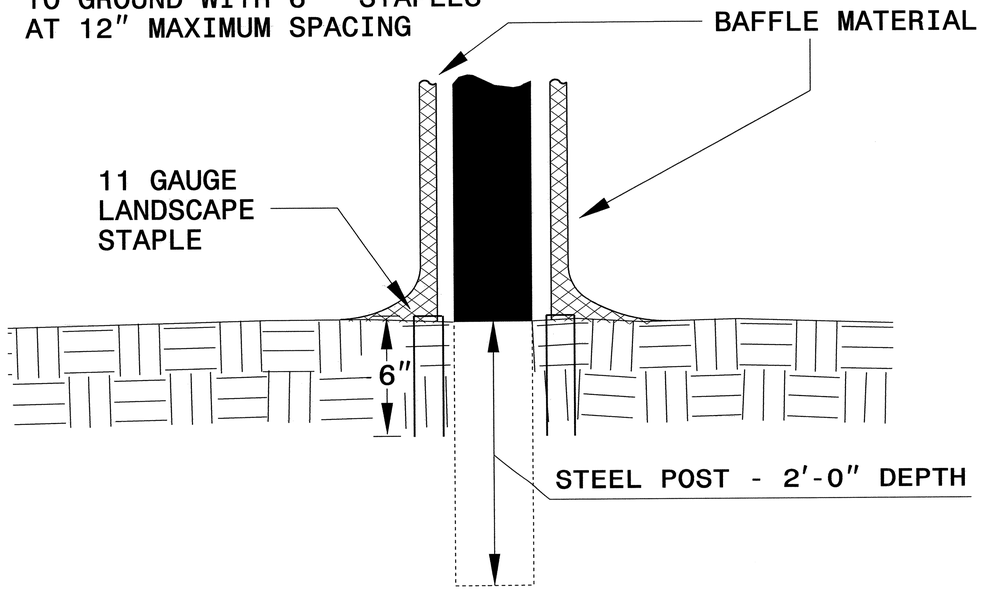
STEEL POST SHALL BE 5′-0″ MIN. IN HEIGHT AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.

BAFFLE MATERIAL SHALL BE WOVEN COIR FIBER WITH .14 PSF COIR, NORTH AMERICAN GREEN C-125BN COIR BLANKET OR EQUIVALENT MATERIAL SPECIFIED BY THE ENGINEER.

BAFFLE MATERIAL SHALL BE A MINIMUM OF 6′ IN WIDTH DRAPED AND SHALL BE FASTENED ADEQUATELY TO THE WIRE AND SUPPORTS WITH PLASTIC TIES OR AS DIRECTED BY THE ENGINEER.

BAFFLES SHALL BE 3′ IN HEIGHT OR AS DIRECTED BY THE ENGINEER.

BAFFLE MATERIAL SHALL BE SECURED WITH 6″ LANDSCAPE STAPLES AT THE BOTTOM AND SIDES OF THE BASIN AT 12″ MAXIMUM SPACING.

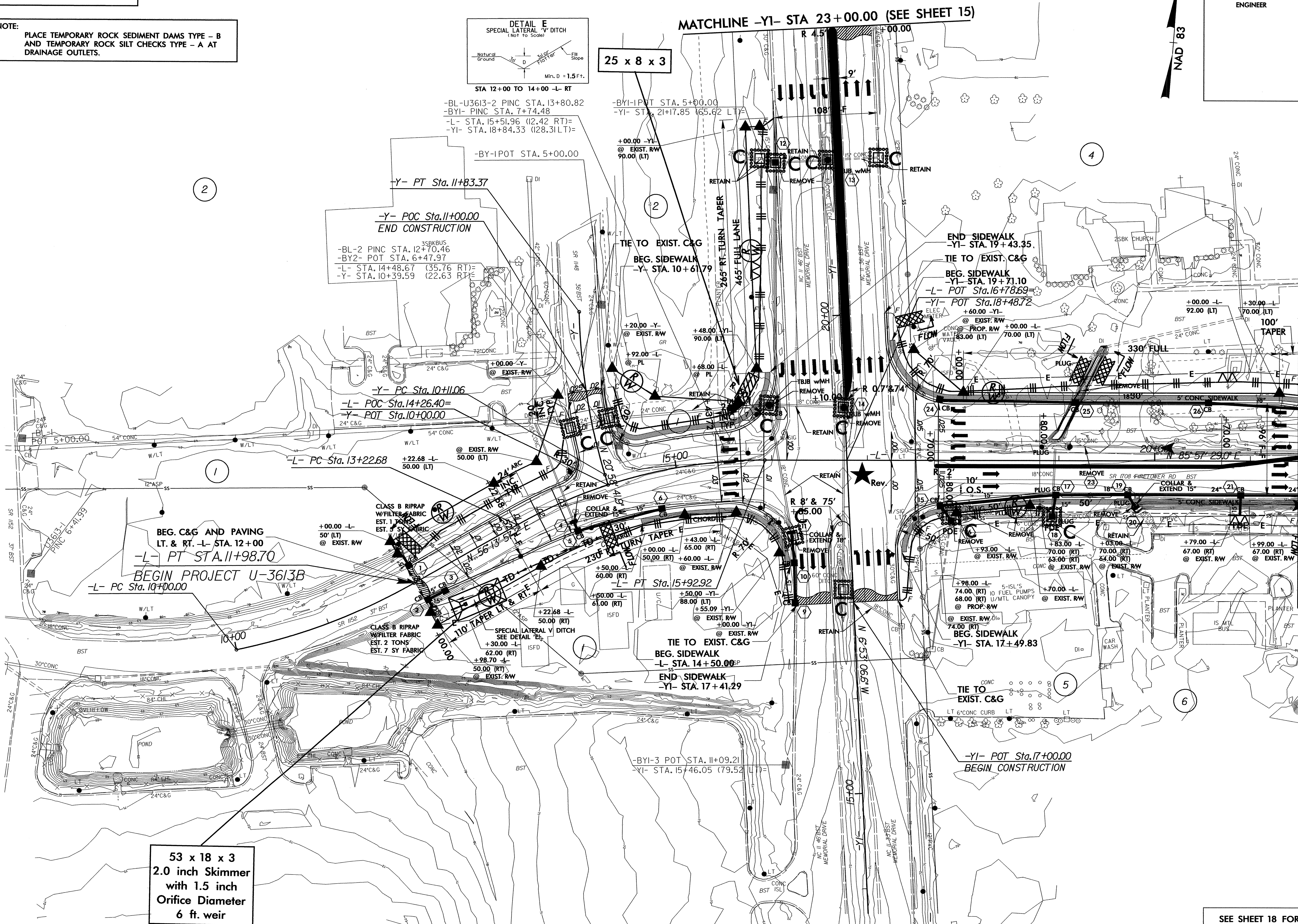


BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 6″ LANDSCAPE STAPLES

PROJECT REFERENCE NO.	SHEET NO.
U-3613B	EC-4/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

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



SEE SHEET 18 FOR -L- PROFILE
SEE SHEET 24 FOR -Y- PROFILE
SEE SHEET 24 FOR -Y1- PROFILE

★ Rev. REVISED SIGNAL

PROJECT REFERENCE NO.	SHEET NO.
U-3613B	EC-5/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5

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

DETAIL A1
STANDARD GRASSED SWALE
(Not to Scale)
Natural Ground, 3:1, D, 3:1, Natural Ground, B
Min. D = 5 Ft.
B = 3 Ft.
–L– STA 23+35 LT

DETAIL A
GRASS SWALE
(Not to Scale)
Natural Ground, 3:1, d, D, B, 3:1 or Flatter, Fill Slope
Min. D = 1.5 Ft.
Max. d = 1 Ft.
B = 2 Ft.
Type of Liner = PSRM
–L– STA 27+70 TO –L– STA 32+50 LT

DETAIL B
STREAM RELOCATION
(Not to Scale)
Natural Ground, 3:1, D, B, 3:1 or Flatter, Fill Slope
Min. D = 1.5 Ft.
B = 5 Ft.
–L– STA 33+35 TO –L– STA 33+80 LT

DETAIL C
STREAM RELOCATION
(Not to Scale)
Natural Ground, 3:1, D, B, 3:1 or Flatter, Fill Slope
Min. D = 1.5 Ft.
B = 2 Ft.
–L– STA 33+80 TO –L– STA 34+50 LT

NAD 83

MATCHLINE –L– STA 21+50.00 (SEE SHEET 4)

MATCHLINE –L– STA 34+50.00 (SEE SHEET 6)

+02.00 –L– 436.00 (LT)
+37.00 –L– 432.00 (LT)
+06.00 –L– 367.00 (LT)
+41.00 –L– 370.00 (LT)
3' BASE GRASSED SWALE SEE DETAIL A1 EST. 1280 CY EXC.
98 x 33 x 3 2.5 inch Skimmer with 2.25 inch Orifice Diameter 11 ft. weir
+25.00 –L– 60.00 (LT)
+69.00 –L– 60.00 (LT) 76.00 (LT) 100.00 (LT)
CLASS B RIPRAP W/FILTER FABRIC EST. 3 TONS EST. 10 SY FABRIC
+05.00 –L– 60.00 (LT) 80.00 (LT) 100.00 (LT)
100' TAPER
+30.00 –L– 60.00 (LT)
600' TRANSITION
+60.00 –L– 52.92 (LT) 68.00 (LT) 84.00 (LT)
CLASS B RIPRAP W/FILTER FABRIC EST. 2 TONS EST. 7 SY FABRIC
GRASS SWALE SEE DETAIL 'A'
+35.00 –L– 50.00 (LT)
+50.00 –L– 76.00 (LT)
+60.00 –L– 50.00 (LT)
+00.00 –L– 35.00 (LT)
–Y1A– POT Sta. 12+50.00
+90.00 –L– 105.00 (LT)
+90.00 –L– 80.00 (LT)
END CONSTRUCTION
–Y1A– POT Sta. 11+00.00
–BL-4 PINC STA. 31+92.86
–L– STA. 33+62.65 (6.42 RT)=
+65.00 –L– 105.00 (LT)
–L– POT Sta. 31+28.00=
–Y1A– POT Sta. 10+00.00
+65.00 –L– 80.00 (LT)
+15.00 –L– 78.00 (LT) 90.00 (LT)
GRASS SWALE SEE DETAIL 'B'
+89.00 –L– 104.00 (LT)
+00.00 –L– 105.00 (LT)
STREAM RELOCATION SEE DETAIL 'C'
+95.00 –L– 50.00 (LT)
CLASS 'I' RIP RAP EST. 20 TONS
1 @ 10' X 8' RCBC
MH
N 85°57'29" E
+32.00 –L– 68.00 (RT) @ EXIST. R/W
+12.00 –L– 68.00 (RT) @ EXIST. R/W
DRIVE TO BE DELETED
PAVEMENT REMOVED TO EASEMENT LINE
-BL-3 PINC STA. 22+72.32
–L– STA. 24+42.36 (27.96 RT)=
±32.00 –L– 63.00 (RT) @ EXIST. R/W
+40.00 –L– 62.00 (RT) @ EXIST. R/W
+12.00 –L– 68.00 (RT) @ EXIST. R/W
+60.00 –L– 62.00 (RT) @ EXIST. R/W
+96.00 –L– 62.00 (RT) @ EXIST. R/W
+16.00 –L– 62.00 (RT) @ EXIST. R/W
+25.00 –L– 62.00 (RT) @ EXIST. R/W
+45.00 –L– 62.00 (RT) @ EXIST. R/W
+45.00 –L– 67.00 (RT) @ EXIST. R/W
+65.00 –L– 67.00 (RT) @ EXIST. R/W
+74.00 –L– @ EXIST. R/W
+95.00 –L– 69.00 (RT) 100.00 (RT)
END C&G –L– STA. 31+11.38
+80.00 –L– 55.00 (RT)
+59.00 –L– 69.00 (RT) 100.00 (RT)
+54.00 –L– 98.00 (RT)
+59.00 –L– 127.00 (RT)
BEG. C&G –L– STA. 31+43.13
+86.00 –L– @ EXIST. R/W
+89.00 –L– 66.00 (RT)
+93.00 –L– 91.00 (RT)
+45.00 –L– 74.00 (RT) 64.00 (RT) @ EXIST. R/W
+98.00 –L– 122.00 (RT)
50 x 17 x 3 6' weir

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

PAVEMENT REMOVAL

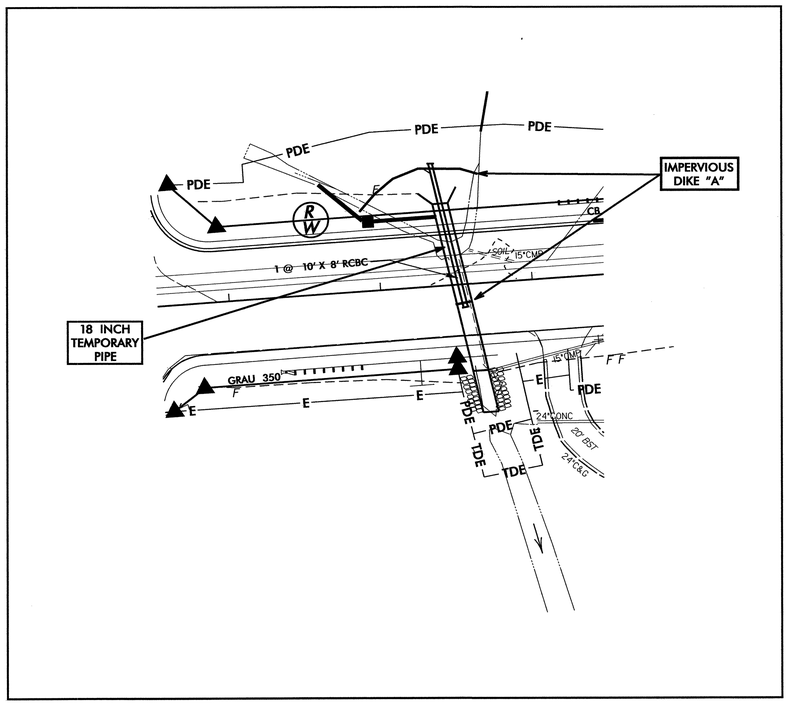
SEE SHEET 18 FOR –L– PROFILE
SEE SHEET 24 FOR –Y1A– PROFILE
SEE SHEET C-1 THRU C-__ FOR CULVERT PLANS

PROJECT REFERENCE NO.	SHEET NO.
U-3613B	EC-5A/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 33+52 –L–

PHASE I

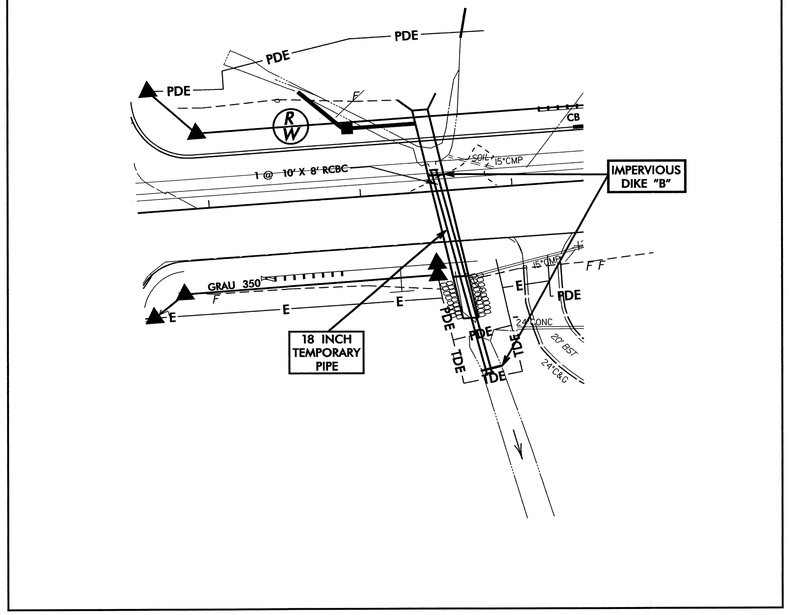
1. INSTALL IMPERVIOUS DIKE "A."
2. INSTALL 18" TEMPORARY PIPE.
3. REMOVE 25' OF EXISTING 96" CMP.
4. CONSTRUCT 56' OF PROPOSED CULVERT.
5. PUMP EFFLUENT INTO SPECIAL STILLING BASIN.
6. CONSTRUCT DRAINAGE IMPROVEMENTS AND STREAM RELOCATION.
7. SHIFT TRAFFIC ONTO NEWLY CONSTRUCTED HIGHWAY.



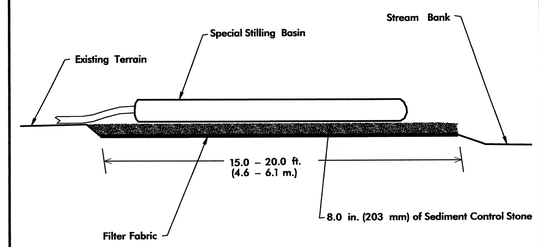
NAD 83

PHASE II

1. REMOVE IMPERVIOUS DIKE "A."
2. INSTALL IMPERVIOUS DIKE "B."
3. INSTALL 18" TEMPORARY PIPE.
4. REMOVE REMAINING 96" CMP.
5. COMPLETE CULVERT AND ROADWAY.
6. PUMP EFFLUENT INTO SPECIAL STILLING BASIN.



SPECIAL STILLING BASIN WITH ROCK PAD



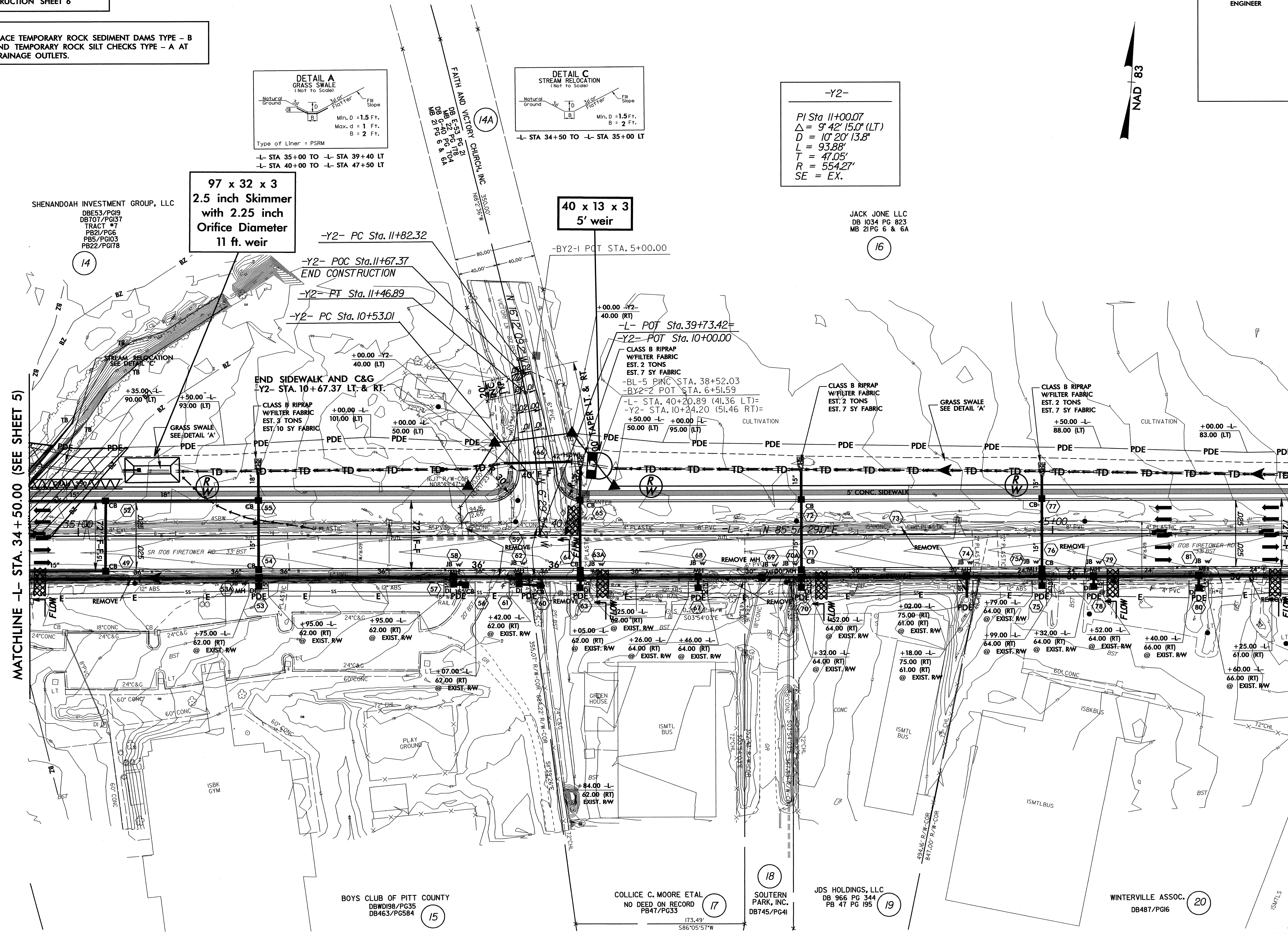
Not To Scale

Note: Provide Stabilized Outlet to Streambank

PROJECT REFERENCE NO.	SHEET NO.
U-3613B	EC-6/CONST.6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

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



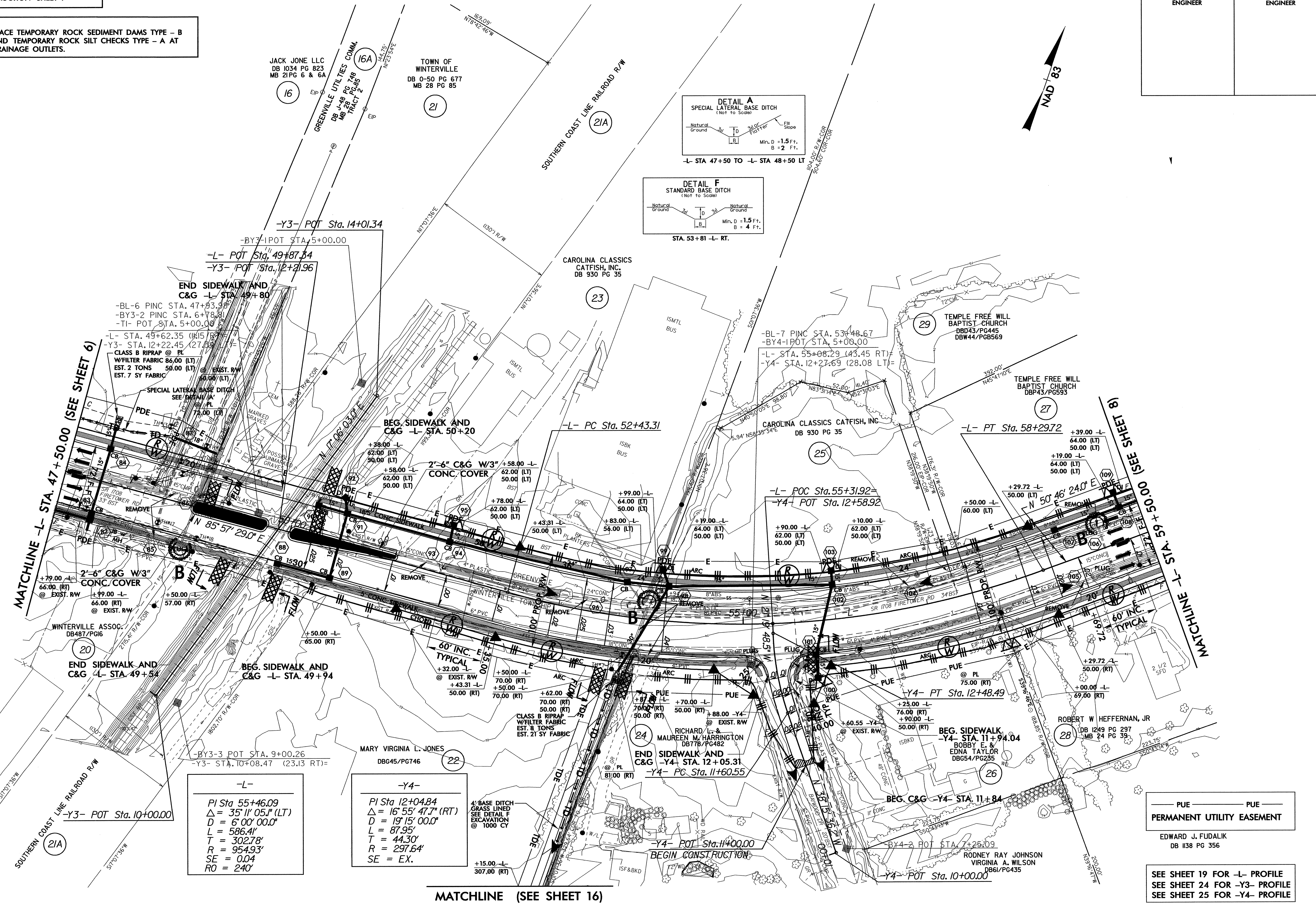
DETAIL A
GRASS SWALE
(Not to Scale)
Min. D = 1.5 Ft.
Max. d = 1 Ft.
B = 2 Ft.
Type of Liner = PSRM
-L- STA 35+00 TO -L- STA 39+40 LT
-L- STA 40+00 TO -L- STA 47+50 LT
DETAIL C
STREAM RELOCATION
(Not to Scale)
Min. D = 1.5 Ft.
B = 2 Ft.
-L- STA 34+50 TO -L- STA 35+00 LT
-Y2-
PI Sta 11+00.07
Δ = 9° 42' 15.0" (LT)
D = 10° 20' 13.8"
L = 93.88'
T = 47.05'
R = 554.27'
SE = EX.
NAD 83
97 x 32 x 3
2.5 inch Skimmer
with 2.25 inch
Orifice Diameter
11 ft. weir
40 x 13 x 3
5' weir
SHENANDOAH INVESTMENT GROUP, LLC
DBE53/PG19
DB707/PG137
TRACT #7
PB21/PG6
PB5/PG103
PB22/PG178
14
FAITH AND VICTORY CHURCH, INC
14A
JACK JONE LLC
DB 1034 PG 823
MB 21PG 6 & 6A
16
-Y2- PC Sta. 11+82.32
-Y2- POC Sta. 11+67.37
END CONSTRUCTION
-Y2- PT Sta. 11+46.89
-Y2- PC Sta. 10+53.01
-BY2-1 POT STA. 5+00.00
-L- POT Sta. 39+73.42=
-Y2- POT Sta. 10+00.00
END SIDEWALK AND C&G
-Y2- STA. 10+67.37 LT. & RT.
CLASS B RIPRAP
W/FILTER FABRIC
EST. 3 TONS
EST. 10 SY FABRIC
CLASS B RIPRAP
W/FILTER FABRIC
EST. 2 TONS
EST. 7 SY FABRIC
-BL-5 PINC STA. 38+52.03
-BY2-2 POT STA. 6+51.59
-L- STA. 40+20.89 (41.36 LT)=
-Y2- STA. 10+24.20 (51.46 RT)=
STREAM RELOCATION
SEE DETAIL 'C'
GRASS SWALE
SEE DETAIL 'A'
CULTIVATION
5' CONC. SIDEWALK
SR 1708 FIRETOWER RD
MATCHLINE -L- STA. 34+50.00 (SEE SHEET 5)
MATCHLINE -L- STA. 47+50.00 (SEE SHEET 7)
BOYS CLUB OF PITT COUNTY
DBWD198/PG35
DB463/PG584
15
COLLICE C. MOORE ETAL
NO DEED ON RECORD
PB47/PG33
17
18
SOUTERN
PARK, INC.
DB745/PG41
JDS HOLDINGS, LLC
DB 966 PG 344
PB 47 PG 195
19
WINTERVILLE ASSOC.
DB487/PG16
20
ISBK GYM
PLAY GROUND
GREEN HOUSE
ISMTL BUS

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

PROJECT REFERENCE NO.	SHEET NO.
U-3613B	EC-7/CONST.7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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.



NAD 83
DETAIL A
SPECIAL LATERAL BASE DITCH
(Not to Scale)
Natural Ground
Fill Slope
Min. D = 1.5 Ft.
B = 2 Ft.
-L- STA 47+50 TO -L- STA 48+50 LT
DETAIL F
STANDARD BASE DITCH
(Not to Scale)
Natural Ground
Min. D = 1.5 Ft.
B = 4 Ft.
STA. 53+81 -L- RT.
JACK JONE LLC
DB 1034 PG 823
MB 21 PG 6 & 6A
GREENVILLE UTILITIES COMM.
TOWN OF WINTERVILLE
DB 0-50 PG 677
MB 28 PG 85
SOUTHERN COAST LINE RAILROAD R/W
CAROLINA CLASSICS CATFISH, INC.
DB 930 PG 35
TEMPLE FREE WILL BAPTIST CHURCH
DBD43/PG445
DBW44/PGB569
TEMPLE FREE WILL BAPTIST CHURCH
DBP43/PG593
-Y3- POT Sta. 14+01.34
-BY3-1 POT STA. 5+00.00
-L- POT Sta. 49+87.34
-Y3- POT Sta. 12+21.96
END SIDEWALK AND C&G -L- STA. 49+80
-BL-6 PINC STA. 47+93.98
-BY3-2 PINC STA. 6+78.31
-T1- POT STA. 5+00.00
CLASS B RIPRAP @ PL W/FILTER FABRIC
EST. 2 TONS
EST. 7 SY FABRIC
SPECIAL LATERAL BASE DITCH SEE DETAIL 'A'
BEG. SIDEWALK AND C&G -L- STA. 50+20
2'-6" C&G W/3" CONC. COVER
-L- PC Sta. 52+43.31
-BL-7 PINC STA. 53+48.67
-BY4-1 POT STA. 5+00.00
CAROLINA CLASSICS CATFISH, INC
DB 930 PG 35
-L- PT Sta. 58+29.72
-L- POC Sta. 55+31.92=
-Y4- POT Sta. 12+58.92
N 85° 57' 29.0" E
N 50° 46' 24.0" E
MATCHLINE -L- STA. 47+50.00 (SEE SHEET 6)
MATCHLINE -L- STA. 59+50.00 (SEE SHEET 8)
MATCHLINE (SEE SHEET 16)
SR 1708 FIRETOWER RD
WINTERVILLE ASSOC.
DB487/PG16
END SIDEWALK AND C&G -L- STA. 49+54
BEG. SIDEWALK AND C&G -L- STA. 49+94
60' INC. TYPICAL
-BY3-3 POT STA. 9+00.26
-Y3- STA. 10+08.47 (23.13 RT)=
MARY VIRGINIA L. JONES
DBG45/PG746
-Y3- POT Sta. 10+00.00
CLASS B RIPRAP W/FILTER FABRIC
EST. 8 TONS
EST. 21 SY FABRIC
RICHARD L. & MAUREEN M. HARRINGTON
DB778/PG482
END SIDEWALK AND C&G -Y4- STA. 12+05.31
-Y4- PC Sta. 11+60.55
4' BASE DITCH GRASS LINED SEE DETAIL F EXCAVATION @ 1000 CY
-Y4- POT Sta. 11+00.00
BEGIN CONSTRUCTION
-Y4- PT Sta. 12+48.49
BEG. SIDEWALK -Y4- STA. 11+94.04
BOBBY E. & EDNA TAYLOR
DBG54/PG235
BEG. C&G -Y4- STA. 11+84
-BY4-2 POT STA. 7+25.09
-Y4- POT Sta. 10+00.00
RODNEY RAY JOHNSON
VIRGINIA A. WILSON
DB61/PG435
ROBERT W HEFFERNAN, JR
DB 1249 PG 297
MB 24 PG 39

-L-
PI Sta 55+46.09
△ = 35° 11' 05.1" (LT)
D = 6° 00' 00.0"
L = 586.41'
T = 302.78'
R = 954.93'
SE = 0.04
RO = 240'

-Y4-
PI Sta 12+04.84
△ = 16° 55' 47.7" (RT)
D = 19° 15' 00.0"
L = 87.95'
T = 44.30'
R = 297.64'
SE = EX.

—— PUE —— PUE ——
PERMANENT UTILITY EASEMENT

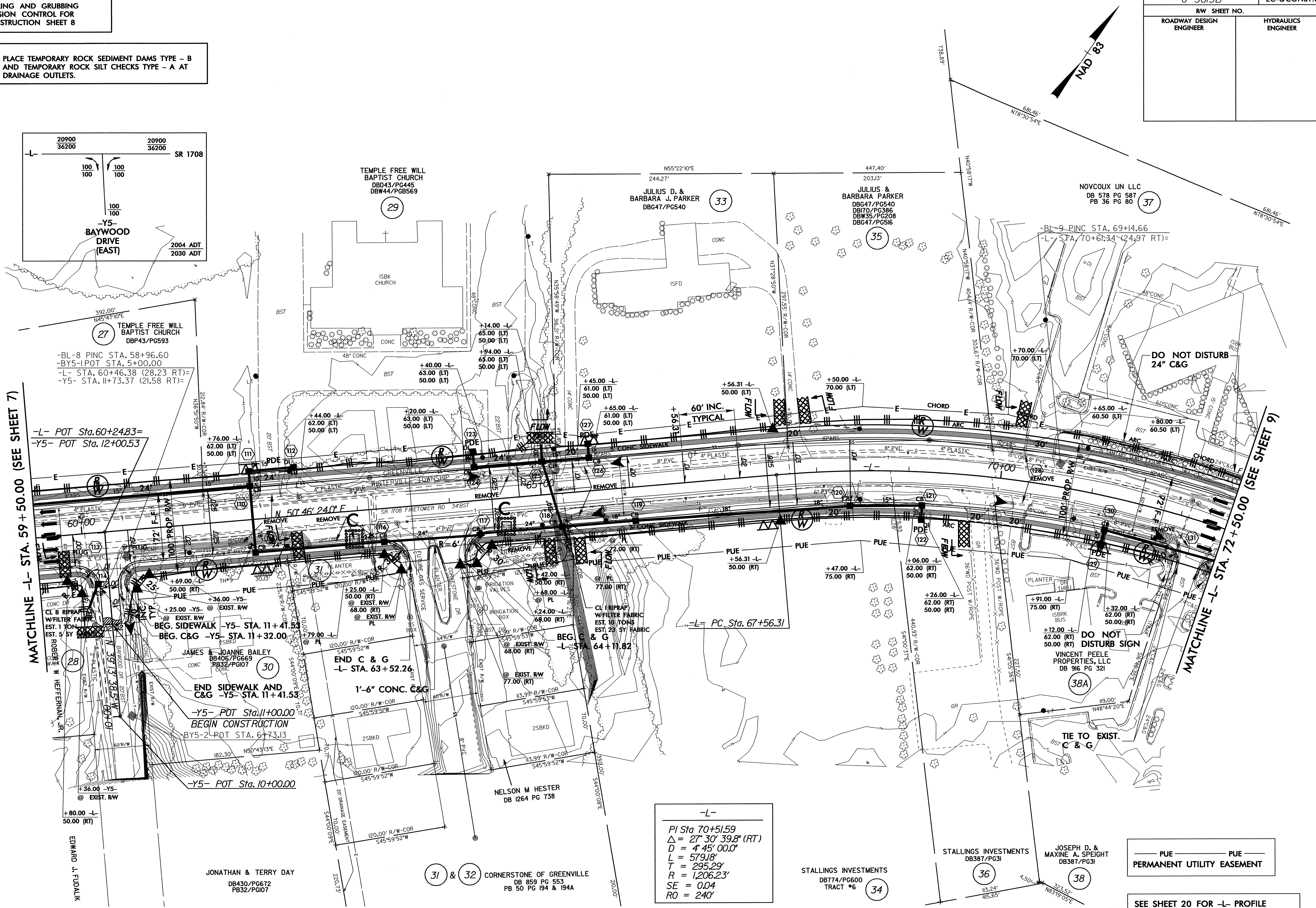
EDWARD J. FUDALIK
DB 1138 PG 356

SEE SHEET 19 FOR -L- PROFILE
SEE SHEET 24 FOR -Y3- PROFILE
SEE SHEET 25 FOR -Y4- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
U-3613B	EC-8/CONST.8
R/W 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.



NAD 83
-L- 20900 / 36200
SR 1708
-Y5- BAYWOOD DRIVE (EAST)
2004 ADT
2030 ADT
TEMPLE FREE WILL BAPTIST CHURCH DBD43/PG445 DBW44/PGB569
JULIUS D. & BARBARA J. PARKER DBG47/PG540
JULIUS & BARBARA PARKER DBG47/PG540 DBI70/PG386 DBW35/PG208 DBG47/PG516
NOVCOUX UN LLC DB 578 PG 587 PB 36 PG 80
TEMPLE FREE WILL BAPTIST CHURCH DBP43/PG593
-BL-8 PINC STA. 58+96.60
-BY5-1POT STA. 5+00.00
-L- STA. 60+46.38 (28.23 RT)=
-Y5- STA. 11+73.37 (21.58 RT)=
-BL-9 PINC STA. 69+14.66
-L- STA. 70+61.34 (24.97 RT)=
DO NOT DISTURB 24" C&G
-L- POT Sta.60+24.83=
-Y5- POT Sta. 12+00.53
MATCHLINE -L- STA. 59+50.00 (SEE SHEET 7)
MATCHLINE -L- STA. 72+50.00 (SEE SHEET 9)
60' INC. TYPICAL
GREENVILLE WINTERVILLE TOWNSHIP
SR 1708 FIRETOWER RD
N 50° 46' 24.0" E
BEG. SIDEWALK -Y5- STA. 11+41.53
BEG. C&G -Y5- STA. 11+32.00
JAMES & JOANNE BAILEY DB406/PG669 PB32/PG107
END SIDEWALK AND C&G -Y5- STA. 11+41.53
-Y5- POT Sta.11+00.00
BEGIN CONSTRUCTION
END C & G -L- STA. 63+52.26
1'-6" CONC. C&G
BEG. C & G -L- STA. 64+11.82
CL I RIPRAP W/FILTER FABRIC EST. 10 TONS EST. 23 SY FABRIC
-L- PC Sta. 67+56.31
DO NOT DISTURB SIGN
VINCENT PEELE PROPERTIES, LLC DB 916 PG 321
TIE TO EXIST. C & G
-Y5- POT Sta. 10+00.00
NELSON M HESTER DB 1264 PG 738
JONATHAN & TERRY DAY DB430/PG672 PB32/PG107
CORNERSTONE OF GREENVILLE DB 859 PG 553 PB 50 PG 194 & 194A
STALLINGS INVESTMENTS DB774/PG600 TRACT #6
STALLINGS INVESTMENTS DB387/PG31
JOSEPH D. & MAXINE A. SPEIGHT DB387/PG31
EDWARD J. FUDALIK
ROBERT W HEFFERNAN, JR.

-L-
PI Sta 70+51.59
Δ = 27° 30' 39.8" (RT)
D = 4° 45' 00.0"
L = 579.18'
T = 295.29'
R = 1,206.23'
SE = 0.04
RO = 240'

—— PUE —— PUE ——
PERMANENT UTILITY EASEMENT

SEE SHEET 20 FOR -L- PROFILE
SEE SHEET 25 FOR -Y5- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
U-3613B	EC-9/CONST.9
R/W 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.

-L-

PI Sta 80+38.76
Δ = 1° 45′ 21.6″ (RT)
D = 0° 30′ 00.0″
L = 351.20′
T = 175.61′
R = 11,459.16′
SE = N.C.

-Y6-

PI Sta 15+99.64	PI Sta 18+55.88
Δ = 1° 38′ 39.4″ (LT)	Δ = 3° 29′ 27.6″ (LT)
D = 1° 45′ 00.0″	D = 2° 27′ 40.2″
L = 93.96′	L = 141.84′
T = 46.98′	T = 70.94′
R = 3,274.04′	R = 2,328.00′
SE = N.C.	SE = N.C.

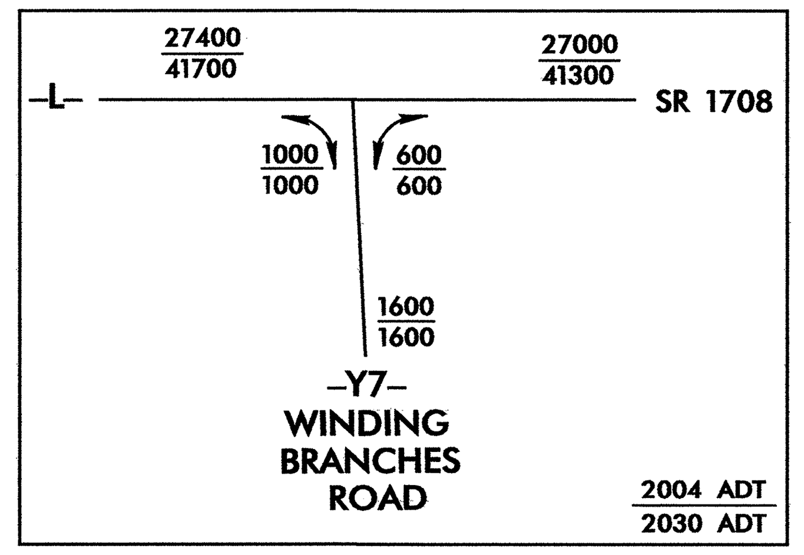
DETAIL D
SPECIAL CUT DITCH
(Not to Scale)

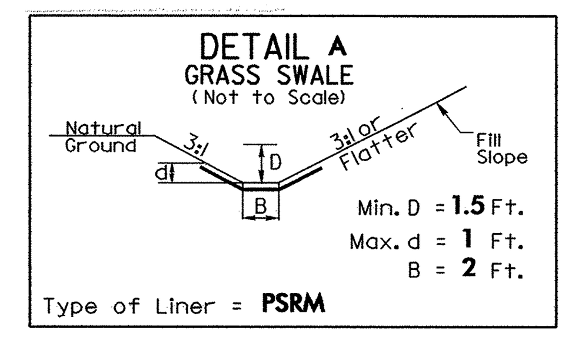
-Y6- STA 10+50 TO -Y6- STA 12+50 LT
-Y6- STA 10+50 TO -Y6- STA 12+50 RT
-Y6- STA 15+00 TO -Y6- STA 17+00 LT
-Y6- STA 14+90 TO -Y6- STA 17+25 RT

PROJECT REFERENCE NO.	SHEET NO.
U-3613B	EC-10/CONST.10
R/W 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.



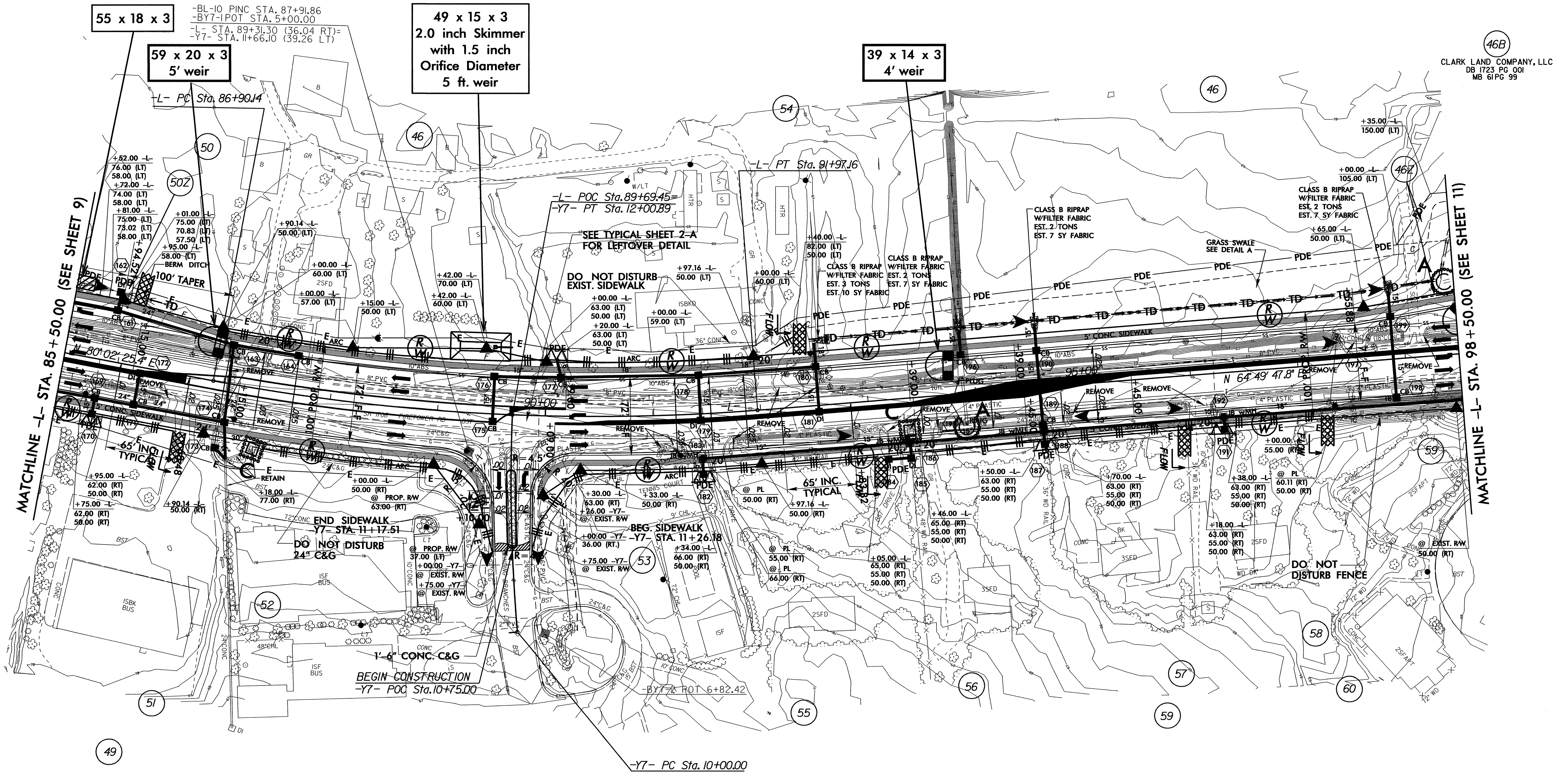


-L- STA 92+50 TO -L- STA 100+50 LT

-L-
PI Sta 89+45.15
△ = 15° 12' 37.6" (LT)
D = 3° 00' 00.0"
L = 507.01'
T = 255.01'
R = 1,909.86'
SE = 0.035

-Y7-
PI Sta 11+00.58
△ = 7° 16' 31.7" (RT)
D = 3° 37' 17.8"
L = 200.89'
T = 100.58'
R = 1,582.05'
SE = N.C.

NAD 83



55 x 18 x 3
59 x 20 x 3
5' weir
-BL-10 PINC STA. 87+91.86
-BY7-1POT STA. 5+00.00
-L- STA. 89+31.30 (36.04 RT)=
-Y7- STA. 11+66.10 (39.26 LT)
49 x 15 x 3
2.0 inch Skimmer
with 1.5 inch
Orifice Diameter
5 ft. weir
39 x 14 x 3
4' weir
CLARK LAND COMPANY, LLC
DB 1723 PG 001
MB 61PG 99
-L- PC Sta. 86+90.14
-L- POC Sta.89+69.45=
-Y7- PT Sta. 12+00.89
-L- PT Sta. 91+97.16
SEE TYPICAL SHEET 2-A
FOR LEFTOVER DETAIL
DO NOT DISTURB
EXIST. SIDEWALK
CLASS B RIPRAP
W/FILTER FABRIC
EST. 2 TONS
EST. 7 SY FABRIC
CLASS B RIPRAP
W/FILTER FABRIC
EST. 3 TONS
EST. 10 SY FABRIC
GRASS SWALE
SEE DETAIL A
MATCHLINE -L- STA. 85+50.00 (SEE SHEET 9)
MATCHLINE -L- STA. 98+50.00 (SEE SHEET 11)
100' TAPER
65' INC. TYPICAL
N 80° 02' 25.4" E
N 64° 49' 47.8" E
5' CONC. SIDEWALK
END SIDEWALK
-Y7- STA. 11+17.51
DO NOT DISTURB
24" C&G
BEG. SIDEWALK
-Y7- STA. 11+26.18
1'-6" CONC. C&G
BEGIN CONSTRUCTION
-Y7- POC Sta.10+75.00
-BY7 POT 6+82.42
-Y7- PC Sta. 10+00.00
DO NOT
DISTURB FENCE

PROJECT REFERENCE NO.	SHEET NO.
U-3613B	EC-11/CONST.11
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 11

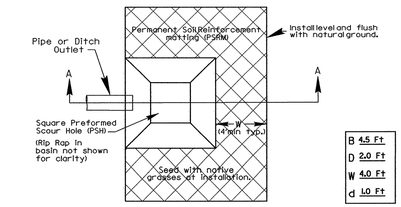
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

DETAIL 'G'

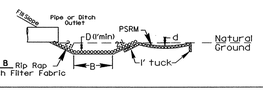
PREFORMED SCOUR HOLE WITH LEVEL SPREADER APRON

PLAN VIEW



B 4.5 Ft
D 2.0 Ft
W 4.0 Ft
d 1.0 Ft

SECTION A-A



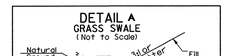
44 x 15 x 3 5' weir

80 x 27 x 3 2.5 inch Skimmer with 2.0 inch Orifice Diameter 9 ft. weir

51 x 17 x 3 6' weir

50 x 25 x 3 2.0 inch Skimmer with 1.5 inch Orifice Diameter 9 ft. weir

DETAIL A
GRASS SWALE
(Not to Scale)



Min. D = 1.5 Ft.
Max. d = 1 Ft.
B = 2 Ft.
Type of Liner = PSRM

FROM –L–100+50 TO –L–105+26 LT
FROM –L–105+58 TO –L–106+85 LT
FROM –L–107+60 TO –L–108+20 LT
FROM –L–105+18 TO –L–107+15 RT

NAD 83

MATCHLINE –L– STA. 98+50.00 (SEE SHEET 10)

MATCHLINE –L– STA. 112+50.00 (SEE SHEET 12)

STANDARD GRASSED SWALE SEE DETAIL 'H' @ 140 CY EXC @ 45 SY FABRIC

STANDARD GRASSED SWALE SEE DETAIL 'H' @ 140 CY EXC @ 40 SY FABRIC

STANDARD GRASSED SWALE SEE DETAIL 'H' @ 45 CY EXCAVATION @ 70 SY FABRIC

-BL-11 PINC STA. 97+58.84
-BY8-1 POT STA. 5+00.00
-L- STA. 98+94.08 (26.93 RT)=
-Y8- STA. 11+76.19 (30.89 LT)

-L- POT Sta. 99+24.98=
-Y8- POT Sta. 12+03.12

-Y8- PT Sta. 11+63.89

-BL-12 PINC STA. 103+92.14
-L- STA. 105+27.38 (23.84 RT)

-Y9- PT Sta. 12+44.41
-Y9- PC Sta. 11+34.21

END CONSTRUCTION
-Y9- POT Sta. 11+00.00
TIE TO EXIST. C&G LT. & RT.

-BY9-1 POT 5+00.00

CLASS B RIPRAP W/FILTER FABRIC EST. 10 TONS EST. 28 SY FABRIC

CLASS B RIPRAP W/FILTER FABRIC EST. 2 TONS EST. 7 SY FABRIC

CLASS B RIPRAP W/FILTER FABRIC EST. 3 TONS EST. 10 SY FABRIC

1'-6" CONC. C&G

REMOVE GUARDRAIL

DO NOT DISTURB FENCE
DO NOT DISTURB EARTH BERM

PSH 4.5' X 4.5' SEE DETAIL G @ 8 CY EXCAVATION @ 26 SY FF @ 10 TONS

BEGIN RETAINING WALL –L– STA. 110+43.50 (–WALL1–)
DO NOT DISTURB TREES

-BY8-2 POT 6+88.00

BEGIN CONSTRUCTION
-Y8- PC Sta. 10+00.00

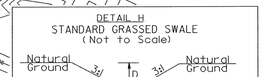
-BL-13 PINC STA. 108+56.84
-BY9-2 POT STA. 7+69.01
-L- STA. 109+92.07 (26.22 RT)

-L- POT Sta. 109+96.95
-Y9- POT Sta. 10+00.00

52 x 14 x 3 2.0 inch Skimmer with 1.5 inch Orifice Diameter 5 ft. weir

43 x 14 x 3 2.0 inch Skimmer with 1.5 inch Orifice Diameter 6 ft. weir

DETAIL H
STANDARD GRASSED SWALE
(Not to Scale)



Min. D = 1.5 Ft.
Max. d = 1 Ft.
B = 2 Ft.
Type of Liner = PSRM

61 63 63Z 63Z 64 65 66 67 68 69 69Z 70

PROJECT REFERENCE NO.	SHEET NO.
U-3613B	EC-12/CONST.12
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 12

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

-L-
PI Sta 117+56.33
Δ = 7° 13′ 04.2″ (LT)
D = 2° 30′ 00.0″
L = 288.71′
T = 144.55′
R = 2,291.83′
SE = 0.03

NAD 83

7/2/99

PROJECT REFERENCE NO.	SHEET NO.
U-3613B	EC-13/CONST.13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 13

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

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

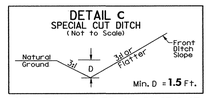
–Y11–

PI Sta 10+46.00
△ = 7° 34' 44.2" (RT)
D = 8° 15' 00.0"
L = 91.87'
T = 46.00'
R = 694.49'
SE = 0.033

–L–

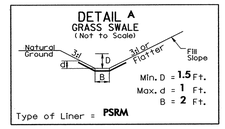
PI Sta 127+01.53	PI Sta 139+77.26
△ = 4° 21' 23.0" (RT)	△ = 17° 53' 45.4" (LT)
D = 1° 30' 00.0"	D = 2° 30' 00.0"
L = 290.43'	L = 715.84'
T = 145.28'	T = 360.86'
R = 3,819.72'	R = 2,291.83'
SE = 0.025	SE = 0.03

DETAIL C
SPECIAL CUT DITCH
(Not to Scale)



–Y11– STA 10+00 TO 11+50 RT & LT
–Y12– STA 10+00 TO 11+00 RT & LT

DETAIL A
GRASS SWALE
(Not to Scale)



Type of Liner = PSRM

FROM –L–129+00 TO –L–135+50

NAD 83

–BL-15 PINC STA. 124+23.67
–BYII-1POT STA. 5+00.00
–L– STA. 125+55.93 (17.99 RT)=
–YII– STA. II+73.93 (44.03 LT)

–Y12A– POT Sta. II+50.00
–L– POT Sta.130+75.00=
–Y12A– POT Sta. 10+00.00

–BL-16 PINC STA. 129+24.94
BY12-1POT STA. 5+00.00
–L– STA. 130+58.84 (29.69 RT)=
–Y12– STA. II+65.97 (22.53 LT)

–L– POT Sta.130+82.58=
–Y12– POT Sta. II+96.59

–L– PT Sta. 128+46.68

–L– PC Sta. 125+56.25

–L– POC Sta.126+03.67=
–YII– POT Sta. II+99.49

–L– PC Sta. 136+16.40

–BL-18 PINC STA. 136+40.72
–BY13-1POT STA. 5+00.00
–L– STA. 137+72.94 (22.27 RT)=
–Y13– STA. 12+12.31 (34.62 RT)

–L– POC Sta.137+39.39=
–Y13– POT Sta. 12+33.13

65 x 22 x 3
2.0 inch Skimmer with 1.75 inch Orifice Diameter
8 ft. weir

49 x 16 x 3
4' weir

–BL-17 PINC STA. 133+51.73
–L– STA. 134+85.35 (44.37 RT)

2 @ 11'5" X 7'1" STRUCTURAL PLATE ALUMINUM

CLASS B RIPRAP W/FILTER FABRIC EST. 7 TONS EST. 21 SY FABRIC

CLASS B RIPRAP W/FILTER FABRIC EST. 2 TONS EST. 7 SY FABRIC

CLASS B RIPRAP W/FILTER FABRIC EST. 8 TONS EST. 24 SY FABRIC

GRASS SWALE SEE DETAIL 'A'

SADDLE BRANCH CONNECTOR

SPECIAL CUT DITCH SEE DETAIL 'C'

BEG. SIDEWALK AND C&G –Y12– STA. 11+10.33 LT. AND RT.

END SIDEWALK AND C&G –YII– STA. 11+27.07

END SIDEWALK –Y13– STA. 11+67.95 LT. AND RT.

SEE TYPICAL SHEET 2-A FOR LEFTOVER DETAIL

BEGIN CONSTRUCTION –YII– PC Sta. 10+27.00

BEGIN CONSTRUCTION –Y12– POT Sta. 10+10.00
–Y12– POT Sta. 10+00.00

BEGIN CONSTRUCTION –Y13– Sta.10+85.00

–YII– PC Sta. 10+00.00 –L–

–Y13– POT Sta. 10+00.00

33 x 11 x 3
–BY12-2 POT 6+67.75

18 x 6 x 3

42 x 12 x 3
5' weir
–BY13-2 POT 7+05.75
–Y13– STA. 10+06.60 (30.59 RT)

16 x 5 x 3

–BYII-2 POT 6+80.73

MATCHLINE –L– STA. 124+50.00 (SEE SHEET 12)

MATCHLINE –L– STA. 138+50.00 (SEE SHEET 14)

PROJECT REFERENCE NO.	SHEET NO.
U-3613B	EC-13A/CONST13
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 135+24 –L–

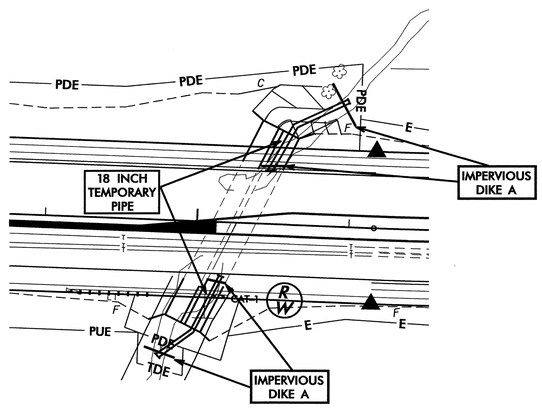
PHASE I

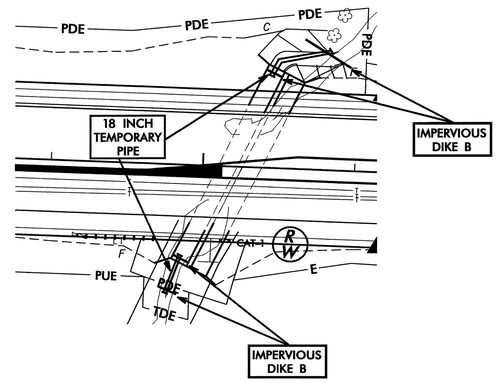
1. INSTALL IMPERVIOUS DIKE 'A'.
2. INSTALL TWO 18" CSP.
3. CONSTRUCT STREAM RELOCATION.
4. EXTEND WESTERNMOST ARCH ON BOTH ENDS.
5. PUMP EFFLUENT INTO SPECIAL STILLING BASIN.

NAD 83

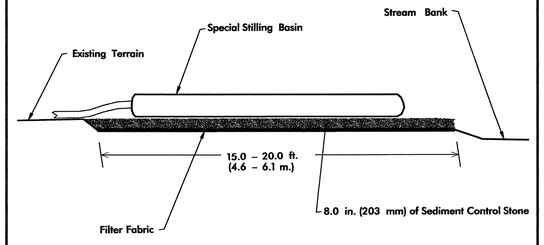
PHASE II

1. REMOVE IMPERVIOUS DIKE 'A'.
2. INSTALL IMPERVIOUS DIKE 'B'.
3. INSTALL TWO 18" CSP.
4. CONSTRUCT REMAINING EXTENSIONS AND HEADWALLS.
5. PUMP EFFLUENT INTO SPECIAL STILLING BASIN.
6. COMPLETE ROADWAY.





SPECIAL STILLING BASIN WITH ROCK PAD



Not To Scale

Note: Provide Stabilized Outlet to Streambank

PROJECT REFERENCE NO.	SHEET NO.
U-3613B	EC-14/CONST.14
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

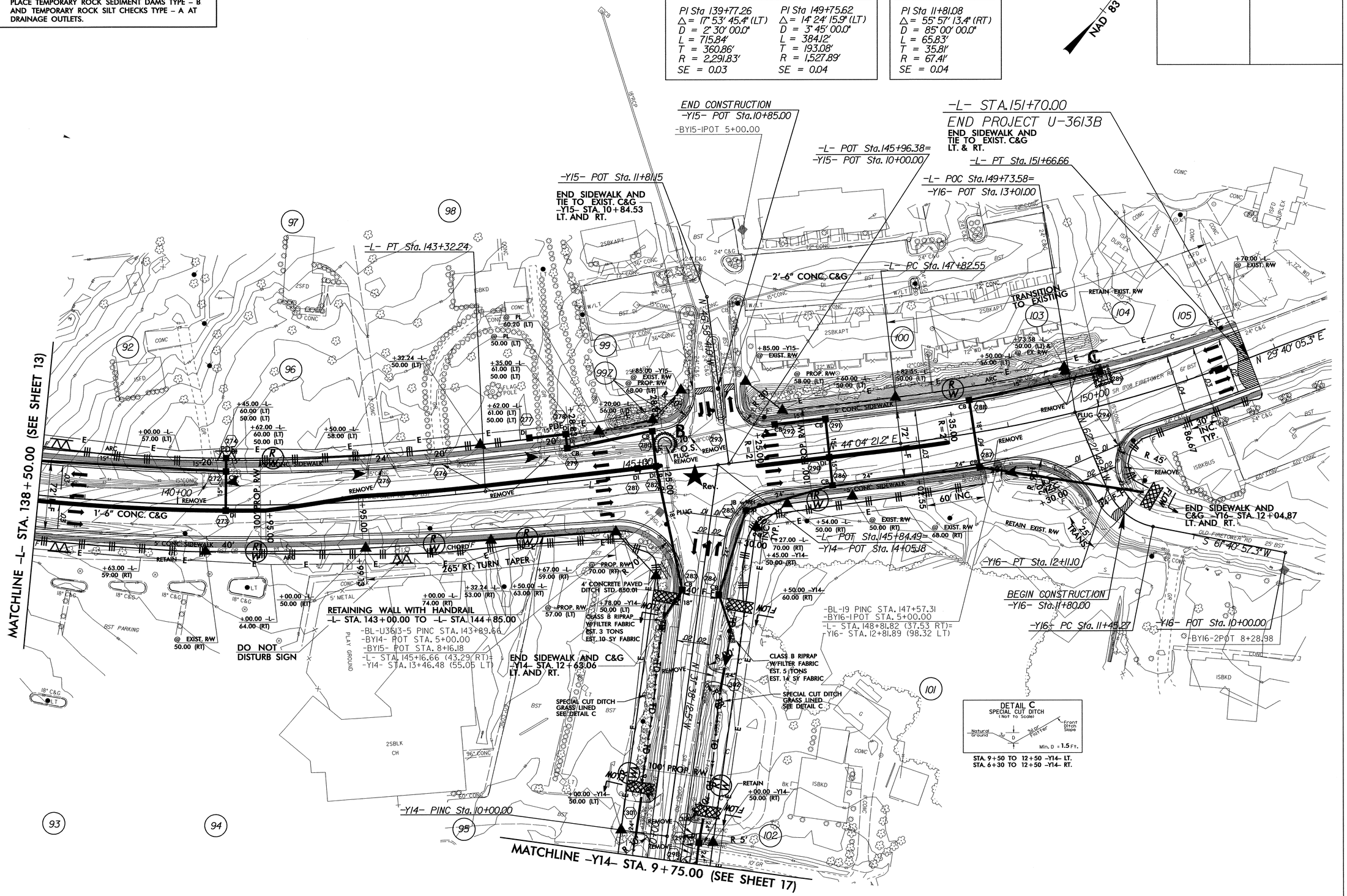
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 14

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

-L-	
PI Sta 139+77.26	PI Sta 149+75.62
Δ = 17° 53' 45.4" (LT)	Δ = 14° 24' 15.9" (LT)
D = 2° 30' 00.0"	D = 3° 45' 00.0"
L = 715.84'	L = 384.12'
T = 360.86'	T = 193.08'
R = 2,291.83'	R = 1,527.89'
SE = 0.03	SE = 0.04

-Y16-
PI Sta 11+81.08
Δ = 55° 57' 13.4" (RT)
D = 85° 00' 00.0"
L = 65.83'
T = 35.81'
R = 67.41'
SE = 0.04

NAD 83



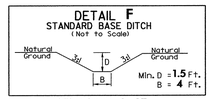
PROJECT REFERENCE NO.	SHEET NO.
U-3613B	EC-15/CONST.16
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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 16

NAD 83

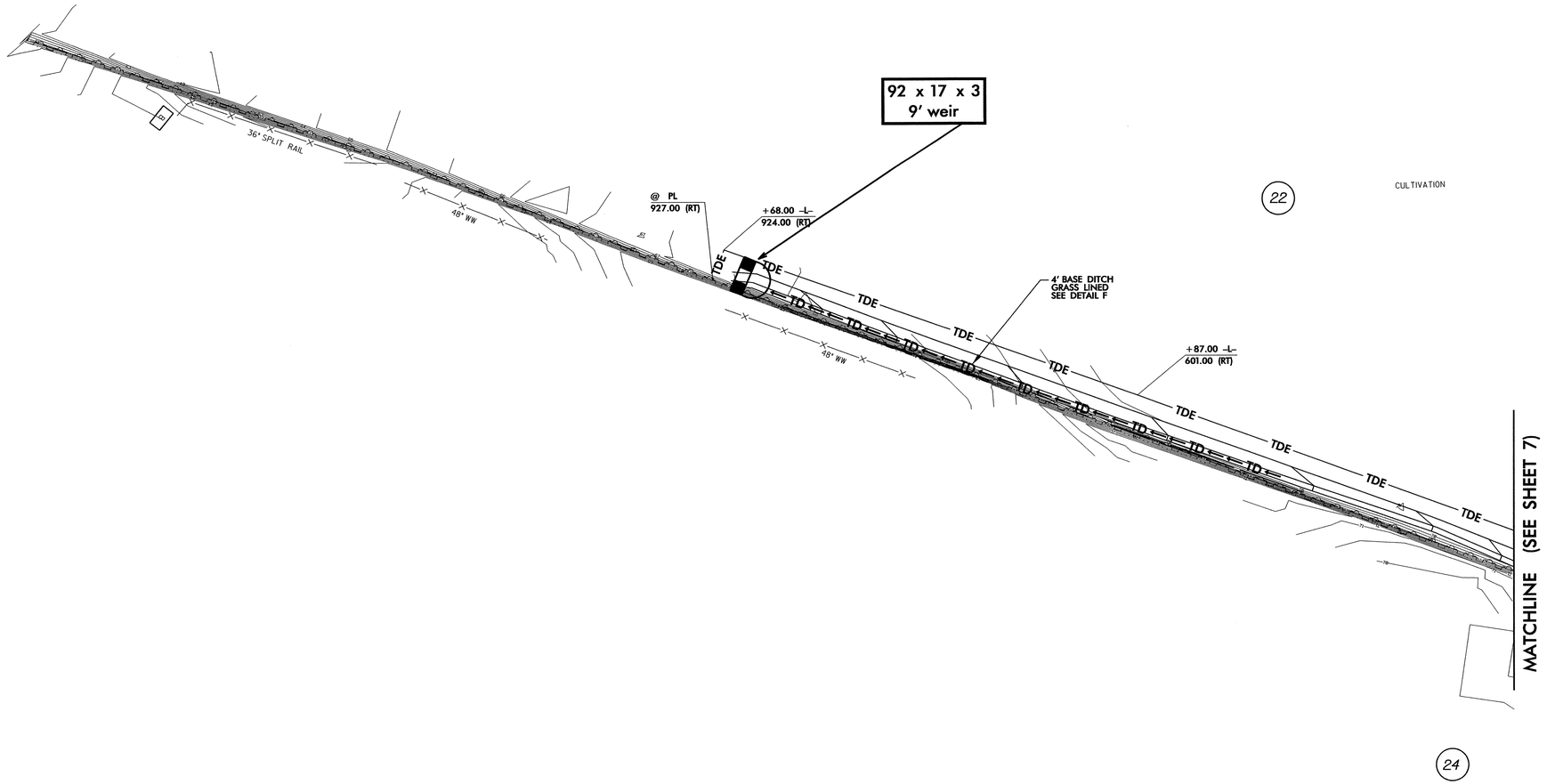
DETAIL F
STANDARD BASE DITCH
(Not to Scale)



STA. 53+81 –L– RT.

CULTIVATION

22



CULTIVATION

22

24

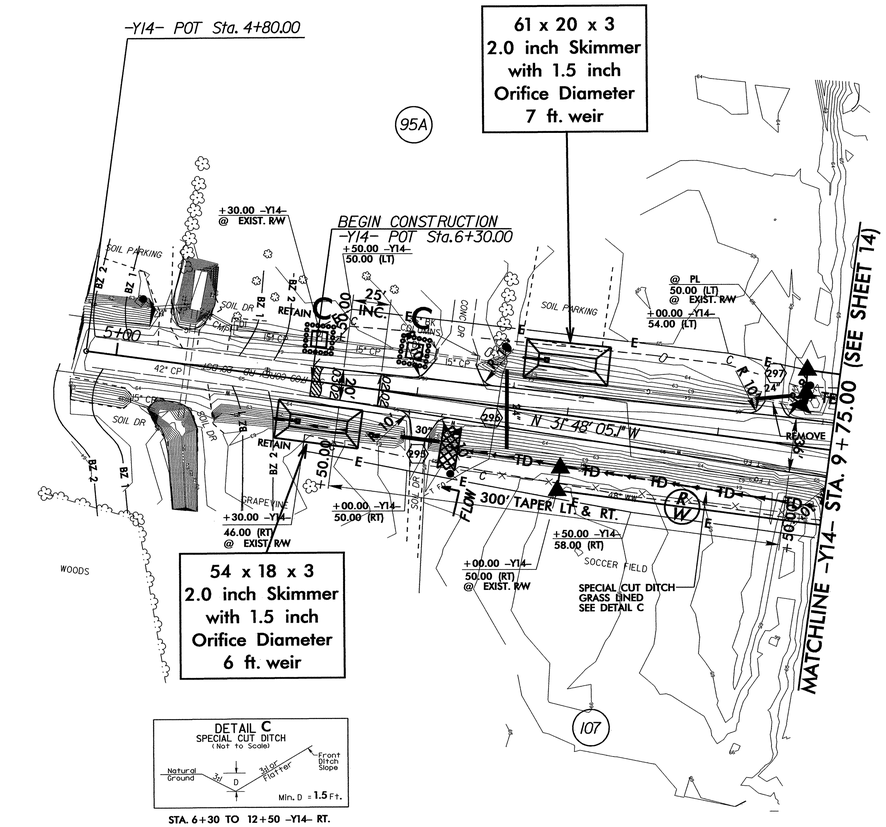
7/2/99

PROJECT REFERENCE NO.	SHEET NO.
U-3613B	EC-16/CONST.17
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 17

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

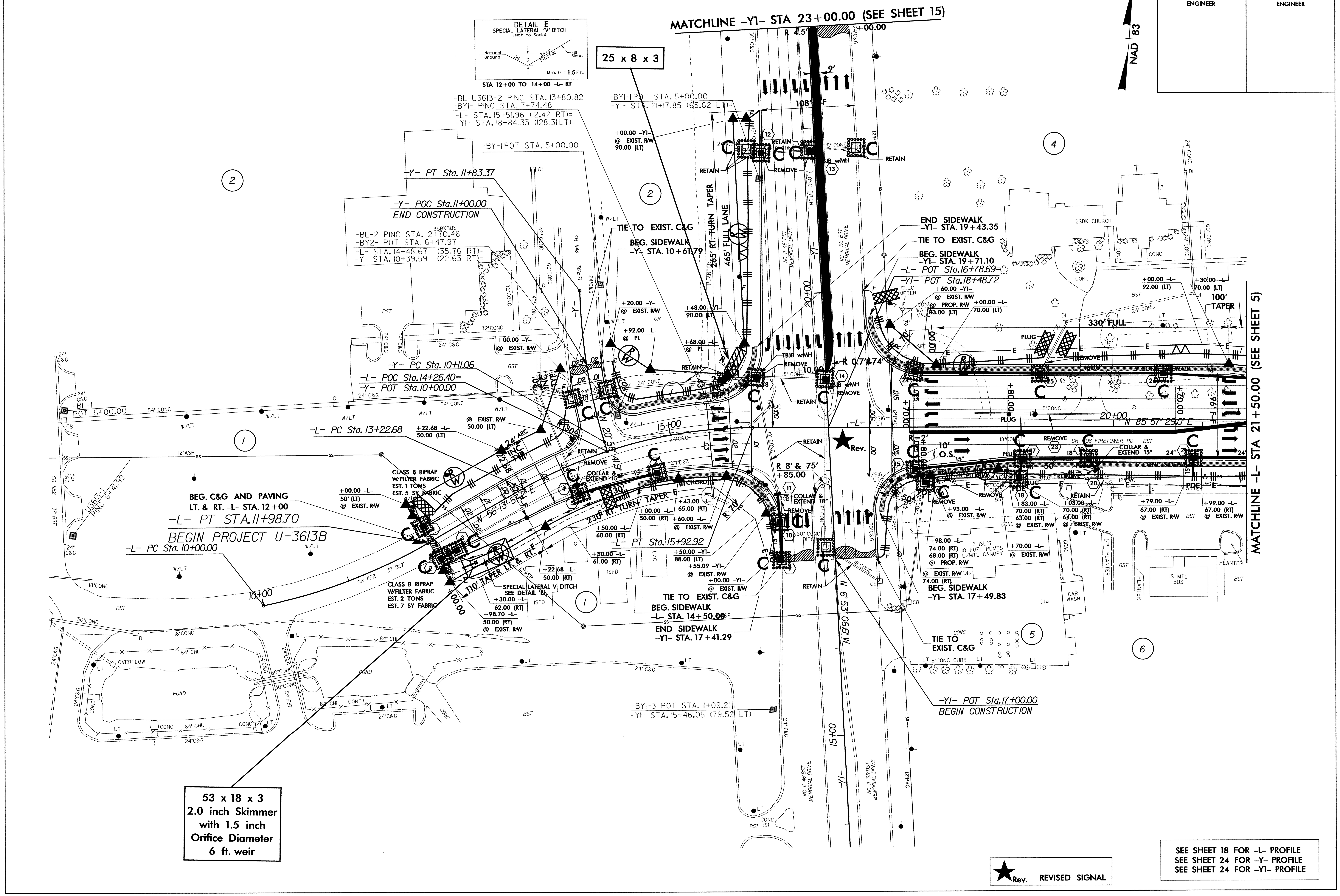
NAD 83



DETAIL C
SPECIAL CUT DITCH
(Not to Scale)

STA. 6+30 TO 12+50 -Y14- RT.

PROJECT REFERENCE NO.	SHEET NO.
U-3613B	EC-17/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



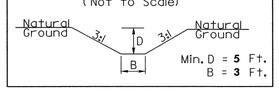
53 x 18 x 3
2.0 inch Skimmer
with 1.5 inch
Orifice Diameter
6 ft. weir

★Rev. REVISED SIGNAL

SEE SHEET 18 FOR -L- PROFILE
SEE SHEET 24 FOR -Y- PROFILE
SEE SHEET 24 FOR -Y1- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
U-3613B	EC-18/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

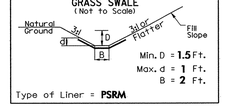
DETAIL A1
STANDARD GRASSED SWALE
(Not to Scale)



Min. D = 5 Ft.
B = 3 Ft.

–L– STA 23+35 LT

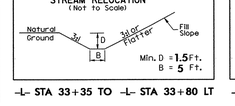
DETAIL A
GRASS SWALE
(Not to Scale)



Min. D = 1.5 Ft.
Max. d = 1 Ft.
B = 2 Ft.
Type of Liner = PSRM

–L– STA 27+70 TO –L– STA 32+50 LT

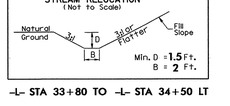
DETAIL B
STREAM RELOCATION
(Not to Scale)



Min. D = 1.5 Ft.
B = 5 Ft.

–L– STA 33+35 TO –L– STA 33+80 LT

DETAIL C
STREAM RELOCATION
(Not to Scale)



Min. D = 1.5 Ft.
B = 2 Ft.

–L– STA 33+80 TO –L– STA 34+50 LT

NAD 83

98 x 33 x 3
2.5 inch Skimmer
with 2.25 inch
Orifice Diameter
11 ft. weir

MATCHLINE –L– STA 21+50.00 (SEE SHEET 4)

MATCHLINE –L– STA 34+50.00 (SEE SHEET 6)

600' TRANSITION

DRIVE TO BE DELETED
PAVEMENT REMOVED TO EASEMENT LINE

-BL-3 PINC STA. 22+72.32
-L- STA. 24+42.36 (27.96 RT)=

END C&G –L– STA. 31+11.38

BEG. C&G –L– STA. 31+43.13

-Y1A- POT Sta. 12+50.00

END CONSTRUCTION
-Y1A- POT Sta. 11+00.00

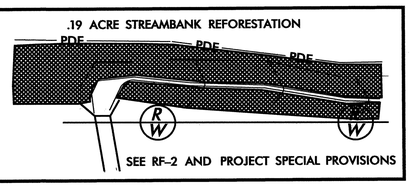
-BL-4 PINC STA. 31+92.86
-L- STA. 33+62.65 (6.42 RT)=

-L- POT Sta. 31+28.00=
-Y1A- POT Sta. 10+00.00

N 4° 02' 31.0" W

N 85° 57' 29.0" E

.19 ACRE STREAMBANK REFORESTATION



SEE RF-2 AND PROJECT SPECIAL PROVISIONS

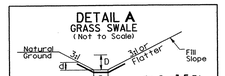
PAVEMENT REMOVAL

SEE SHEET 18 FOR –L– PROFILE
SEE SHEET 24 FOR –Y1A– PROFILE
SEE SHEET C-1 THRU C-__ FOR CULVERT PLANS

PROJECT REFERENCE NO.	SHEET NO.
U-3613B	EC-19/CONST.6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83

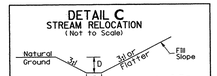
DETAIL A
GRASS SWALE
(Not to Scale)



Min. D = 1.5 Ft.
Max. d = 1 Ft.
B = 2 Ft.
Type of Liner = PSRM

-L- STA 35+00 TO -L- STA 39+40 LT
-L- STA 40+00 TO -L- STA 47+50 LT

DETAIL C
STREAM RELOCATION
(Not to Scale)



Min. D = 1.5 Ft.
B = 2 Ft.

-L- STA 34+50 TO -L- STA 35+00 LT

-Y2-

PI Sta 11+00.07
△ = 9° 42' 15.0" (LT)
D = 10° 20' 13.8"
L = 93.88'
T = 47.05'
R = 554.27'
SE = EX.

97 x 32 x 3
2.5 inch Skimmer
with 2.25 inch
Orifice Diameter
11 ft. weir

SHENANDOAH INVESTMENT GROUP, LLC
DBE53/PG19
DB707/PG137
TRACT #7
PB2I/PG6
PB5/PGI03
PB22/PGI78
14

FAITH AND VICTORY CHURCH, INC
DB E-53 PG 21
DB 2275 PG 178
DB 1014 PG 704
MB G 21 PG 6 & 6A
14A

JACK JONE LLC
DB 1034 PG 823
MB 21PG 6 & 6A
16

-Y2- PC Sta. 11+82.32
-Y2- POC Sta. 11+67.37
END CONSTRUCTION
-Y2- PT Sta. 11+46.89
-Y2- PC Sta. 10+53.01
-BY2-1 POT STA. 5+00.00
+00.00 -Y2- 40.00 (RT)
-L- POT Sta. 39+73.42=
-Y2- POT Sta. 10+00.00
CLASS B RIPRAP W/FILTER FABRIC EST. 2 TONS EST. 7 SY FABRIC
-BL-5 PINC STA. 38+52.03
-BY2-2 POT STA. 6+51.59
-L- STA. 40+20.89 (41.36 LT)=
-Y2- STA. 10+24.20 (51.46 RT)=
END SIDEWALK AND C&G
-Y2- STA. 10+67.37 LT. & RT.
+00.00 -Y2- 40.00 (LT)
+35.00 -L- 90.00 (LT)
+50.00 -L- 93.00 (LT)
+00.00 -L- 101.00 (LT)
+00.00 -L- 50.00 (LT)
+50.00 -L- 50.00 (LT)
+00.00 -L- 95.00 (LT)
+50.00 -L- 88.00 (LT)
+00.00 -L- 83.00 (LT)
CLASS B RIPRAP W/FILTER FABRIC EST. 3 TONS EST. 10 SY FABRIC
GRASS SWALE SEE DETAIL 'A'
STREAM RELOCATION SEE DETAIL 'C'
CULTIVATION
PDE
RW
BZ
ZB
TB
BST
LT
DI
CB
GR
S
E
SS
F
W
G
C
N 15°12'09.2" W 355.00'
N03°35'12"E 884.22' R/W-COR
S03°39'25"W 355.07' R/W-COR
S03°54'03"E 362.19' R/W-COR
S03°55'45"E 362.53' R/W-COR
N 85° 51' 29.0" E
N03°35'12"E 494.66' R/W-COR
847.00' R/W-COR
16.17' R/W-COR N08°49'47"W
S86°05'57"W 173.49'
80.00'
40.00'
100' TAPER LT. & RT.
42" HP RCP
6' PVC
8" PVC
12" ABS
4" PLASTIC
4SBW
5' CONC. SIDEWALK
SR 1708 FIRETOWER RD 33' BST
R/W 69.0'
REMOVE
REMOVE MH
JB W
MH
+95.00 -L- 62.00 (RT) @ EXIST. R/W
+75.00 -L- 62.00 (RT) @ EXIST. R/W
+42.00 -L- 62.00 (RT) @ EXIST. R/W
+07.00 -L- 62.00 (RT) @ EXIST. R/W
+25.00 -L- 62.00 (RT) @ EXIST. R/W
+05.00 -L- 62.00 (RT) @ EXIST. R/W
+26.00 -L- 64.00 (RT) @ EXIST. R/W
+46.00 -L- 64.00 (RT) @ EXIST. R/W
+84.00 -L- 62.00 (RT) @ EXIST. R/W
+52.00 -L- 64.00 (RT) @ EXIST. R/W
+32.00 -L- 64.00 (RT) @ EXIST. R/W
+18.00 -L- 75.00 (RT) 61.00 (RT) @ EXIST. R/W
+02.00 -L- 75.00 (RT) 61.00 (RT) @ EXIST. R/W
+79.00 -L- 64.00 (RT) @ EXIST. R/W
+99.00 -L- 64.00 (RT) @ EXIST. R/W
+32.00 -L- 64.00 (RT) @ EXIST. R/W
+52.00 -L- 64.00 (RT) @ EXIST. R/W
+40.00 -L- 66.00 (RT) @ EXIST. R/W
+25.00 -L- 61.00 (RT)
+60.00 -L- 66.00 (RT) @ EXIST. R/W
CLASS B RIPRAP W/FILTER FABRIC EST. 2 TONS EST. 7 SY FABRIC
GRASS SWALE SEE DETAIL 'A'
CLASS B RIPRAP W/FILTER FABRIC EST. 2 TONS EST. 7 SY FABRIC
CULTIVATION
GREEN HOUSE
ISMTL BUS
PLAY GROUND
ISBK GYM
ISBKBUS
ISMTLBUS
CONC
60" CONC
24"C&G
8"PVC
18"CONC
72" CHL
MATCHLINE -L- STA. 34+50.00 (SEE SHEET 5)
MATCHLINE -L- STA. 47+50.00 (SEE SHEET 7)
35+00
40+00
45+00

BOYS CLUB OF PITT COUNTY
DBWDI98/PG35
DB463/PG584
15

COLLICE C. MOORE ETAL
NO DEED ON RECORD
PB47/PG33
17

18

SOUTERN PARK, INC.
DB745/PG41

JDS HOLDINGS, LLC
DB 966 PG 344
PB 47 PG 195
19

WINTERVILLE ASSOC.
DB487/PGI6
20

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

PROJECT REFERENCE NO.	SHEET NO.
U-3613B	EC-20/CONST.7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83

JACK JONE LLC
DB 1034 PG 823
MB 21PG 6 & 6A
16

GREENVILLE UTILITIES COMM.
DB J-48 PG 749
MB 28 PG 85
TRACT 2
16A

TOWN OF WINTERVILLE
DB 0-50 PG 677
MB 28 PG 85
21

SOUTHERN COAST LINE RAILROAD R/W
21A

163.09' N78°42'46"W

44.75' N23°54'E

N17°01'38"E 1130' R/W

N17°01'38"E

CAROLINA CLASSICS CATFISH, INC.
DB 930 PG 35
23

DETAIL A
SPECIAL LATERAL BASE DITCH
(Not To Scale)
Natural Ground, 3:1, D, B, 3:1 or Flatter, Fill Slope
Min. D = 1.5 Ft.
B = 2 Ft.
-L- STA 47+50 TO -L- STA 48+50 LT

DETAIL F
STANDARD BASE DITCH
(Not to Scale)
Natural Ground, 3:1, D, B, 3:1, Natural Ground
Min. D = 1.5 Ft.
B = 4 Ft.
STA. 53+81 -L- RT.

104.00' R/W-COR
504.60' CSR-COR

-Y3- POT Sta. 14+01.34
-BY3-1POT STA. 5+00.00
-L- POT Sta. 49+87.34
-Y3- POT Sta. 12+21.96

END SIDEWALK AND C&G -L- STA. 49+80

-BL-6 PINC STA. 47+93.98 (45.15 RT)=
-BY3-2 PINC STA. 6+78.81
-TI- POT STA. 5+00.00
-L- STA. 49+62.35 (11.15 RT)=
-Y3- STA. 12+22.45 (27.39 LT)=

CLASS B RIPRAP @ PL
W/FILTER FABRIC 86.00 (LT)
EST. 2 TONS 50.00 (LT) @ EXIST. R/W
EST. 7 SY FABRIC 60.00 (LT)

SPECIAL LATERAL BASE DITCH
SEE DETAIL 'A'
@ PL
73.00 (LT)

MATCHLINE -L- STA. 47+50.00 (SEE SHEET 6)

PDE
TH#13
TH#14
TH#15
TH#16
TH#17
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TH#107
TH#108
TH#109

15" CMP
18" CMP
24" CMP
30" CMP
36" CMP
42" CMP
48" CMP
4" PVC
6" PVC
8" PVC
10" PVC
12" PVC
15" CONC
18" CONC
24" CONC
30" CONC
36" CONC
42" CONC
48" CONC
4" PLASTIC
8" ABS
12" CMP
18" RCP
24" RCP
30" RCP
36" RCP
42" RCP
48" RCP
CEM
MARKED GRAVES
POSSIBLE UNMARKED GRAVES
SR 1708 FIRETOWER RD
REMOVE
PLUG
ARC
CHORD
SOIL
ROCK
CSX R/W
802.70' R/W-COR
S71°01'38"W
N 85° 57' 29.0" E
N 17° 06' 03.0" E
BEG. SIDEWALK AND C&G -L- STA. 50+20
2'-6" C&G W/3" CONC. COVER
+38.00 -L- 62.00 (LT) 50.00 (LT)
+58.00 -L- 62.00 (LT) 50.00 (LT)
+78.00 -L- 62.00 (LT) 50.00 (LT)
+99.00 -L- 64.00 (LT) 50.00 (LT)
+43.31 -L- 50.00 (LT)
+83.00 -L- 56.00 (LT)
+19.00 -L- 64.00 (LT) 50.00 (LT)
+79.00 -L- 66.00 (RT) @ EXIST. R/W
+99.00 -L- 66.00 (RT) @ EXIST. R/W
+50.00 -L- 57.00 (RT)
+50.00 -L- 65.00 (RT)
+32.00 -L- @ EXIST. R/W
+43.31 -L- 50.00 (RT)
+50.00 -L- 70.00 (RT)
+50.00 -L- 70.00 (RT)
+62.00 -L- 70.00 (RT) 50.00 (RT)
+87.00 -L- 70.00 (RT) 50.00 (RT)
+70.00 -L- 50.00 (RT)
+88.00 -Y4- @ EXIST. R/W
+15.00 -L- 307.00 (RT)
+90.00 -L- 62.00 (LT) 50.00 (LT)
+10.00 -L- 62.00 (LT) 50.00 (LT)
+50.00 -L- 60.00 (LT)
+29.72 -L- 50.00 (LT)
+39.00 -L- 64.00 (LT) 50.00 (LT)
+19.00 -L- 64.00 (LT) 50.00 (LT)
+29.72 -L- 50.00 (RT)
+00.00 -L- 69.00 (RT)
+25.00 -Y4- 76.00 (RT) 50.00 (RT)
+60.55 -Y4- @ EXIST. R/W
+29.72 -L- 50.00 (RT) @ PL 75.00 (RT)
BEG. SIDEWALK AND C&G -L- STA. 49+94
WINTERVILLE ASSOC. DB487/PG16
20
END SIDEWALK AND C&G -L- STA. 49+54
2115.41' R/W-COR
WINTERVILLE TOWNSHIP PROP.
100' PROP. R/W
60' INC. TYPICAL
-L- PC Sta. 52+43.31
-L- POC Sta. 55+31.92=
-Y4- POT Sta. 12+58.92
-L- PT Sta. 58+29.72
-Y4- PT Sta. 12+48.49
-L- STA. 55+02
N 21° 19' 48.5" W
-BL-7 PINC STA. 53+48.67
-BY4-1POT STA. 5+00.00
-L- STA. 55+08.29 (43.45 RT)=
-Y4- STA. 12+27.69 (28.08 LT)=
MATCHLINE -L- STA. 59+50.00 (SEE SHEET 8)
29
TEMPLE FREE WILL BAPTIST CHURCH
DB043/PG445
DBW44/PGB569
172' CHL
392.00' N45°47'07"E
TEMPLE FREE WILL BAPTIST CHURCH
DBP43/PG593
27
52.00' 41.40' N83°31'14"E N52°31'03"E
N40°50'05"E 98.80'
5.94' N58°35'34"E
CAROLINA CLASSICS CATFISH, INC
DB 930 PG 35
25
S30°01'50"W 286.00' R/W-COR
N30°01'50"E 175.00' R/W-COR
N59°58'10"W 100.00' PROP. R/W
S30°01'50"W 100.00' PROP. R/W
N 50° 46' 24.0" E
60' INC. TYPICAL
2 1/2 SFD
ISMTL BUS
ISBK BUS
ISBKD
ISF&BKD
CONC DI
BK PLANTERS
BST
WD RAIL
WD
G
S
CONC
BRICK
BRICKWALK
EXIST R/W
-L- PC Sta. 52+43.31
-L- POC Sta. 55+31.92=
-Y4- POT Sta. 12+58.92
-L- PT Sta. 58+29.72
-Y4- PT Sta. 12+48.49
-L- STA. 55+02
N 21° 19' 48.5" W
MATCHLINE -L- STA. 59+50.00 (SEE SHEET 8)
-BL-7 PINC STA. 53+48.67
-BY4-1POT STA. 5+00.00
-L- STA. 55+08.29 (43.45 RT)=
-Y4- STA. 12+27.69 (28.08 LT)=
-BY3-3 POT STA. 9+00.26
-Y3- STA. 10+08.47 (23.13 RT)=
-Y3- POT Sta. 10+00.00
SOUTHERN COAST LINE RAILROAD R/W
21A
S71°01'38"W
MARY VIRGINIA L. JONES
DBG45/PG746
22
-L-
PI Sta 55+46.09
Δ = 35° 11' 05.1" (LT)
D = 6° 00' 00.0"
L = 586.41'
T = 302.78'
R = 954.93'
SE = 0.04
RO = 240'
-Y4-
PI Sta 12+04.84
Δ = 16° 55' 47.7" (RT)
D = 19° 15' 00.0"
L = 87.95'
T = 44.30'
R = 297.64'
SE = EX.
4' BASE DITCH GRASS LINED SEE DETAIL F EXCAVATION @ 1000 CY
BEGIN CONSTRUCTION
-Y4- POT Sta.11+00.00
-Y4- POT Sta. 10+00.00
-BY4-2 POT STA. 7+25.09
RODNEY RAY JOHNSON
VIRGINIA A. WILSON
DB61/PG435
N 38° 15' 36.2" W
BEG. C&G -Y4- STA. 11+84
BEG. SIDEWALK -Y4- STA. 11+94.04
BOBBY E. & EDNA TAYLOR
DBG54/PG235
26
ROBERT W HEFFERNAN, JR
DB 1249 PG 297
MB 24 PG 39
28
223.15' S60°43'14"W
RICHARD L. & MAUREEN M. HARRINGTON
DB778/PG482
24
END SIDEWALK AND C&G -Y4- STA. 12+05.31
-Y4- PC Sta. 11+60.55
CLASS B RIPRAP W/FILTER FABRIC EST. 8 TONS EST. 21 SY FABRIC
TOE
TOP
EDWARD J. FUDALIK
DB 1138 PG 356
PUE PERMANENT UTILITY EASEMENT
SEE SHEET 19 FOR -L- PROFILE
SEE SHEET 24 FOR -Y3- PROFILE
SEE SHEET 25 FOR -Y4- PROFILE
MATCHLINE (SEE SHEET 16)

PROJECT REFERENCE NO.	SHEET NO.
U-3613B	EC-21/CONST.8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83

20900 / 36200 — SR 1708

100/100 — 100/100 — 100/100

-Y5- BAYWOOD DRIVE (EAST)

2004 ADT / 2030 ADT

MATCHLINE -L- STA. 59+50.00 (SEE SHEET 7)

MATCHLINE -L- STA. 72+50.00 (SEE SHEET 9)

-L- POT Sta.60+24.83=
-Y5- POT Sta.12+00.53

-BL-8 PINC STA. 58+96.60
-BY5-1POT STA. 5+00.00
-L- STA. 60+46.38 (28.23 RT)=
-Y5- STA. 11+73.37 (21.58 RT)=

-BL-9 PINC STA. 69+14.66
-L- STA. 70+61.34 (24.97 RT)=

392.00'
N45°47'10"E

27 TEMPLE FREE WILL BAPTIST CHURCH
DBP43/PG593

TEMPLE FREE WILL BAPTIST CHURCH
DBD43/PG445
DBW44/PGB569
29

JULIUS D. & BARBARA J. PARKER
DBG47/PG540
33

JULIUS & BARBARA PARKER
DBG47/PG540
DBI70/PG386
DBW35/PG208
DBG47/PG516
35

NOVCOUX UN LLC
DB 578 PG 587
PB 36 PG 80
37

N55°22'10"E
244.27'

447.40'
203.13'

N40°58'17"W

138.89'

681.46'
N78°30'54"E

ISBK CHURCH

48"CONC

CONC

ISFD

N37°28'50"W
237.55' R/W-COR

404.14' R/W-COR

303.67' R/W-COR

N36°45'50"W
#4 CONC

212.84' R/W-COR
N35°15'50"W

22' BST

BST

LT

+14.00 -L-
65.00 (LT)
50.00 (LT)

+94.00 -L-
65.00 (LT)
50.00 (LT)

+40.00 -L-
63.00 (LT)
50.00 (LT)

+20.00 -L-
63.00 (LT)
50.00 (LT)

+44.00 -L-
62.00 (LT)
50.00 (LT)

+76.00 -L-
62.00 (LT)
50.00 (LT)

+45.00 -L-
61.00 (LT)
50.00 (LT)

+65.00 -L-
61.00 (LT)
50.00 (LT)

+56.31 -L-
50.00 (LT)

+50.00 -L-
70.00 (LT)

+70.00 -L-
70.00 (LT)

+65.00 -L-
60.50 (LT)

+80.00 -L-
60.50 (LT)

60' INC. TYPICAL

CHORD
ARC
RAD

DO NOT DISTURB
24" C&G

60"CONC

ISBK BUS

111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131

PDE

REMOVE

N 50° 46' 24.0" E

SR 1708 FIRETOWER RD

GREENVILLE — WINTERVILLE TOWNSHIP

4" PLASTIC
8" PVC
6" PVC
24" CMP
18" CONC
15" CMP
18" CMP

CONC SIDEWALK

60'ABS
62'ABS
65'ABS
70'ABS

60.00'
70+00
70.00'

100' PROP. R/W

72' F-F

EXIST R/W

PLUG

CONC DR

CL B RIPRAP W/FILTER FABRIC
EST. 1 TON
EST. 5 SY

+69.00 -L-
50.00 (RT)
PUE

+36.00 -Y5-
@ EXIST. R/W

+25.00 -Y5-
@ EXIST. R/W

BEG. SIDEWALK -Y5- STA. 11+41.53
BEG. C&G -Y5- STA. 11+32.00

2SBKD

JAMES & JOANNE BAILEY
DB406/PG669
PB32/PG107
30

END SIDEWALK AND C&G -Y5- STA. 11+41.53

-Y5- POT Sta.11+00.00
BEGIN CONSTRUCTION
-BY5-2 POT STA. 6+73.13

N 39° 13' 38.5" W 66.01'

ROBERT W HEFFERNAN, JR.
28

BAYWOOD DR
30' R/W

182.30'
N50°43'13"E

-Y5- POT Sta.10+00.00

+36.00 -Y5-
@ EXIST. R/W

+80.00 -L-
50.00 (RT)

EDWARD J. FUDALIK

JONATHAN & TERRY DAY
DB430/PG672
PB32/PG107

+79.00 -L-
@ PL

+25.00 -L-
50.00 (RT)
@ EXIST. R/W
68.00 (RT)
PL

+42.00 -L-
50.00 (RT)
@ PL
68.00 (RT)

+24.00 -L-
68.00 (RT)

END C & G
-L- STA. 63+52.26

1'-6" CONC. C&G

120.00' R/W-COR
S45°59'52"W

113.99' R/W-COR
S45°59'53"W

S44°00'08"E

64'R/W

70.00'

70.71'

8" PVC

20' DRAINAGE EASEMENT

220.73'

NELSON M HESTER
DB 1264 PG 738

31 & 32 CORNERSTONE OF GREENVILLE
DB 859 PG 553
PB 50 PG 194 & 194A

R=6'

FUTURE GAS SERVICE

CORNERSTONE DR

PLANTER

IRRIGATION VALVES

IRRIGATION BOX

31

TH#9

CL I RIPRAP W/FILTER FABRIC
EST. 10 TONS
EST. 23 SY FABRIC

-L- PC Sta. 67+56.31

BEG. C & G
-L- STA. 64+11.82

+47.00 -L-
75.00 (RT)

+06.00 -L-
62.00 (RT)
50.00 (RT)

+26.00 -L-
62.00 (RT)
50.00 (RT)

+91.00 -L-
75.00 (RT)

+12.00 -L-
62.00 (RT)
50.00 (RT)

+32.00 -L-
62.00 (RT)
50.00 (RT)

DO NOT DISTURB SIGN

VINCENT PEELE PROPERTIES, LLC
DB 916 PG 321
38A

119.00'
N48°44'20"E

TIE TO EXIST. C & G

PLANTER

DR THRU

36"CMP

POST W/ROPE

ISBK BUS

440.93' R/W-COR
S41°00'37"E

227.50'
S41°55'36"E

355.84'

S41°00'37"E

GR

STALLINGS INVESTMENTS
DB387/PG31
36

JOSEPH D. & MAXINE A. SPEIGHT
DB387/PG31
38

113.24'
415.65'

4.50+/-

323.52'
N83°19'05"E

STALLINGS INVESTMENTS
DB774/PG600
TRACT #6
34

-L-
PI Sta 70+51.59
Δ = 27° 30' 39.8" (RT)
D = 4° 45' 00.0"
L = 579.18'
T = 295.29'
R = 1,206.23'
SE = 0.04
RO = 240'

PUE ——— PUE
PERMANENT UTILITY EASEMENT

SEE SHEET 20 FOR -L- PROFILE
SEE SHEET 25 FOR -Y5- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
U-3613B	EC-22/CONST.9
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L-
PI Sta 80+38.76
△ = 1° 45' 21.6" (RT)
D = 0° 30' 00.0"
L = 351.20'
T = 175.61'
R = 11,459.16'
SE = N.C.

-Y6-	
PI Sta 15+99.64	PI Sta 18+55.88
△ = 1° 38' 39.4" (LT)	△ = 3° 29' 27.6" (LT)
D = 1° 45' 00.0"	D = 2° 27' 40.2"
L = 93.96'	L = 141.84'
T = 46.98'	T = 70.94'
R = 3,274.04'	R = 2,328.00'
SE = N.C.	SE = N.C.

DETAIL D
SPECIAL CUT DITCH
(Not To Scale)

-Y6- STA 10+50 TO -Y6- STA 12+50 LT
-Y6- STA 10+50 TO -Y6- STA 12+50 RT
-Y6- STA 15+00 TO -Y6- STA 17+00 LT
-Y6- STA 14+90 TO -Y6- STA 17+25 RT

44 x 15 x 3

37 x 12 x 3

MATCHLINE -L- STA. 72+50.00 (SEE SHEET 8)

MATCHLINE -L- STA. 85+50.00 (SEE SHEET 10)

NAD 83

NOVCOUX UN LLC
DB 578 PG 587
PB 36 PG 80
37

CHARLES C McLAURIN
DB 1038 PG 321
PB 39 PG 157
39
PLAYGROUND

LSR ASSOC.,LLC
DB506/PG707
PB39/PG157
ISBK BUS

COMMON AREA
PB39/PG157
40

KENNETH H SMITH
DB 1258 PG 695
ISBK BUS
PB39/PG157

ROBERT D. PARROTT
DB 1061 PG 853
PB42/PG185
ISBK BUS

SOUTHERN BANK & TRUST COMPANY
DB908/PG214
PB39/PG189
PB39/PG157
44

ROBERT K ROOP
DB 631PG 657
MB 36 PG 167 & 167A
45

DR RUTH PETERSON
DB 758 PG 676
MB 36 PG 167, 167A & 167B

SOUTH HALL SUBDIVISION
DB 198 PG 125

ALMA PARAMORE
DB U-18 PG 58
DB 118 PG 668
46

DARWIN E. PARAMORE, et ux
DB 1484 PG 724
46A

ALMA PARAMORE
DB U-18 PG 58
DB 118 PG 668
46

THOMAS W. & REBECCA MOYE
DBB39/PG428
50

ALBRITTON REALTY HGROUP, LLC
DB866/PG 444
DEED NOT FOUND
41

BRANCH BANKING & TRUST COMPANY
DB809/PG623
42

JOSEPH D. & MAXINE A. SPEIGHT
DB387/PG31
38

ANGELA G. STEWART
DB793/PG74
43

WALTER L. WILLIAMS
DB518/PGII
PB39/PGI34
47

JAMES F. & PHYLLIS H. BRADLEY
DB490/PG607
PB43/PG25
49

GARY W. HARDEE
DB 284 PG 802
DB 554 PG 530
48A

CHARLES R. HARDEE
DB 284 PG 807
48

DB 953 PG 575

-L- PT Sta. 73+35.49

-L- PC Sta. 78+63.14

-Y6- PC Sta. 17+84.93

-Y6- PT Sta. 17+66.81
END CONSTRUCTION

-Y6- PC Sta. 15+52.65

-L- POT Sta. 81+85.97=
-Y6- POT Sta. 13+74.95

-L- PT Sta. 82+14.34

-Y6- POT Sta. 9+40.00
BEGIN CONSTRUCTION

-Y6- POT Sta. 9+00.00

-BY6-1 POT 5+00.00

-Y6- STA. 16+75.15 (27.52 RT)

-Y6- PT Sta. 16+46.61

END SIDEWALK AND C&G
-Y6- STA. 14+95.08 LT. & RT.

END SIDEWALK AND C&G
-Y6- STA. 12+54.26 LT. & RT.

-BL-U3613-3 PINC STA. 81+08.32
-BY6- PINC STA. 85+50.04
-L- STA. 82+82.39 (49.98 RT)=
-Y6- STA. 13+76.60 (68.19 RT)

TIE TO EXIST. C & G

DO NOT DISTURB 18" C&G

DO NOT DISTURB 24" C&G

DO NOT DISTURB SIGN

60' INC. TYPICAL

100' PROP. R/W

265' RT. TURN TAPER

100' TAPER

120' TAPER RT

200' TAPER LT. & RT.

300' FULL BERM DITCH

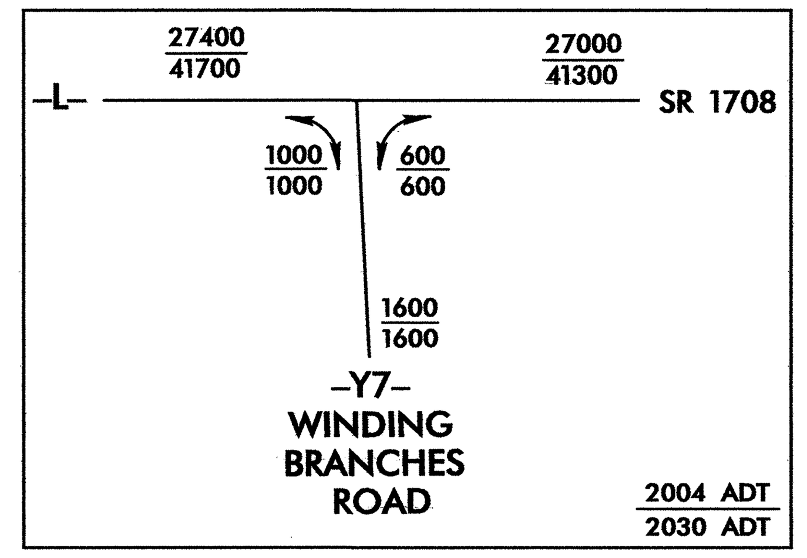
SPECIAL CUT DITCH SEE DETAIL 'D'

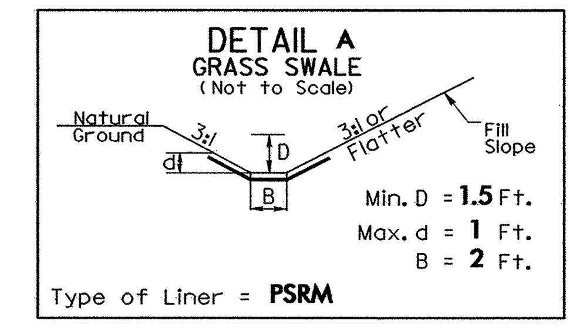
REMOVE

RETAIN

Rev.

PROJECT REFERENCE NO.	SHEET NO.
U-3613B	EC-23/CONST.10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

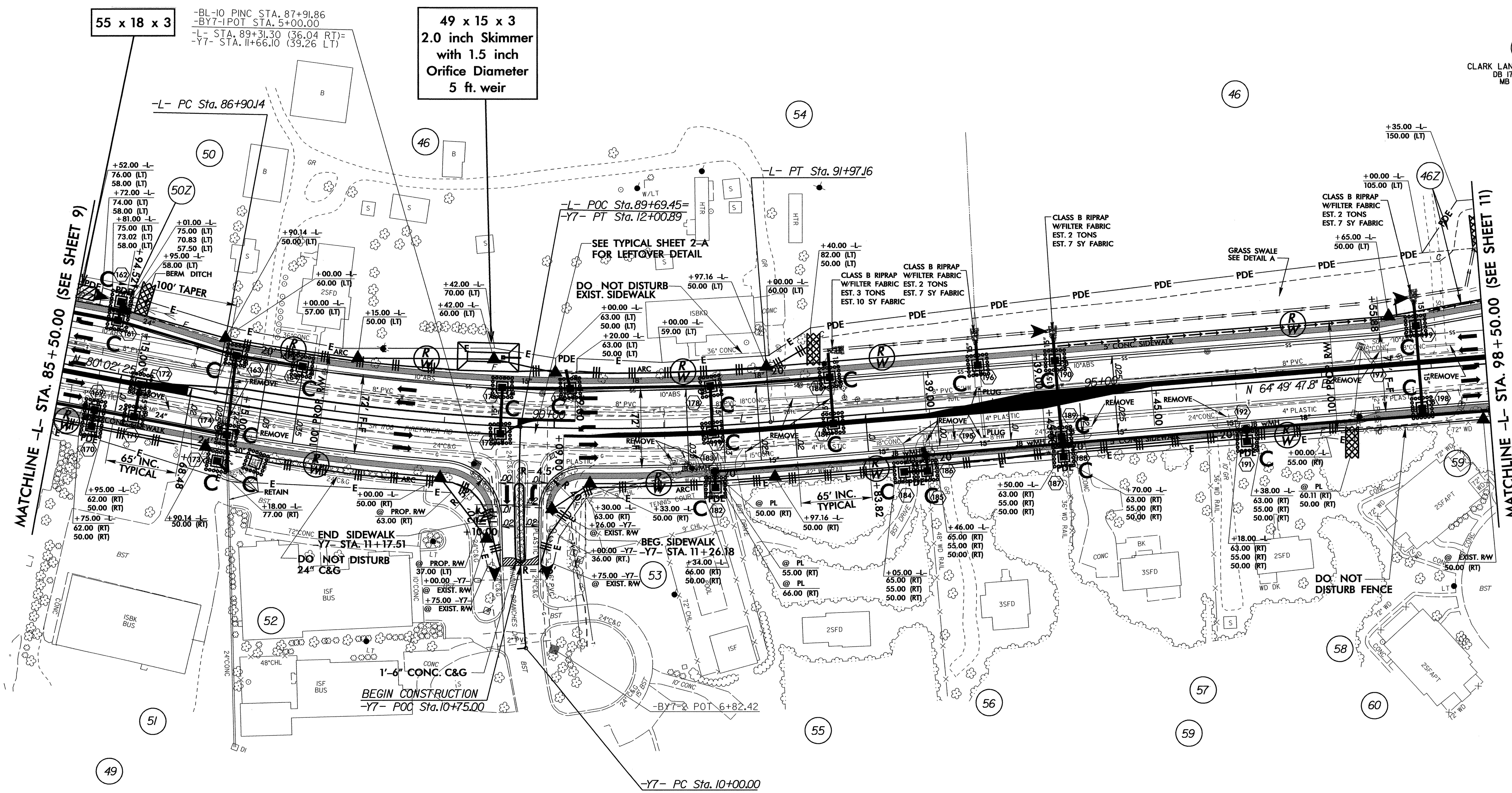




-L- STA 92+50 TO -L- STA 100+50 LT

-L-
PI Sta 89+45.15
Δ = 15° 12' 37.6" (LT)
D = 3° 00' 00.0"
L = 507.01'
T = 255.01'
R = 1,909.86'
SE = 0.035

-Y7-
PI Sta 11+00.58
Δ = 7° 16' 31.7" (RT)
D = 3° 37' 17.8"
L = 200.89'
T = 100.58'
R = 1,582.05'
SE = N.C.

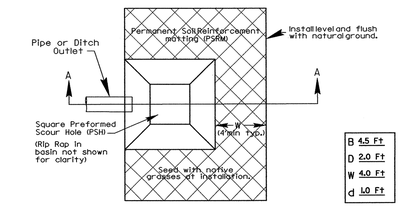


PROJECT REFERENCE NO.	SHEET NO.
U-3613B	EC-24/CONST.11
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DETAIL 'G'

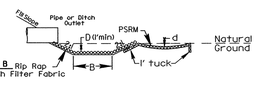
PREFORMED SCOUR HOLE WITH LEVEL SPREADER APRON

PLAN VIEW



B	4.5 Ft
D	2.0 Ft
W	4.0 Ft
d	1.0 Ft

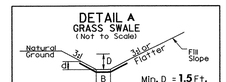
SECTION A-A



80 x 27 x 3 2.5 inch Skimmer with 2.0 inch Orifice Diameter 9 ft. weir

50 x 25 x 3 2.0 inch Skimmer with 1.5 inch Orifice Diameter 9 ft. weir

DETAIL A
GRASS SWALE
(Not to Scale)



Min. D = 1.5 Ft.
Max. d = 1 Ft.
B = 2 Ft.
Type of Liner = PSRM

FROM -L-100+50 TO -L-105+26 LT
FROM -L-105+58 TO -L-106+85 LT
FROM -L-107+60 TO -L-108+20 LT
FROM -L-105+18 TO -L-107+15 RT

NAD 83

STANDARD GRASSED SWALE SEE DETAIL 'H' @ 140 CY EXC @ 45 SY FABRIC

-BL-11PINC STA. 97+58.84
-BY8-1POT STA. 5+00.00
-L- STA. 98+94.08 (26.93 RT)=
-Y8- STA. 11+76.19 (30.89 LT)

-L- POT Sta.99+24.98=

-Y8- POT Sta. 12+03.12

CLASS B RIPRAP W/FILTER FABRIC EST. 10 TONS EST. 28 SY FABRIC

-Y8- PT Sta. 11+63.89

CLASS B RIPRAP W/FILTER FABRIC EST. 2 TONS EST. 7 SY FABRIC

+00.00 -L- 150.00 (LT)
+50.00 -L- 110.00 (LT)
+55.00 -L- 59.00 (LT)
+75.00 -L- 60.00 (LT)
+23.00 -L- 110.00 (LT)
+87.00 -L- 107.00 (LT) 2 @24"
+52.00 -L- 107.00 (LT)

PDE

MATCHLINE -L- STA. 98+50.00 (SEE SHEET 10)

MATCHLINE -L- STA. 112+50.00 (SEE SHEET 12)

-BL-12 PINC STA. 103+92.14
-L- STA. 105+27.38 (23.84 RT)

SEE DETAIL 'A'

+28.00 -L- 120.00 (LT)
+50.00 -L- 95.00 (LT)
+80.00 -L- 95.00 (LT)
+00.00 -L- 103.00 (LT) 95.00 (RT)
+40.00 -L- 95.00 (LT)
+80.00 -L- 130.00 (LT)

CLASS B RIPRAP W/FILTER FABRIC EST. 2 TONS EST. 7 SY FABRIC

STANDARD GRASSED SWALE SEE DETAIL 'H' @ 45 CY EXCAVATION @ 70 SY FABRIC

+55.00 -L- 130.00 (LT)

CLASS B RIPRAP W/FILTER FABRIC EST. 10 TY FABRIC

+75.00 -L- 90.00 (LT)
@ PL 90.00 (LT)

-Y9- PT Sta. 12+44.41
-Y9- PC Sta. 11+34.21

-BY9-1 POT 5+00.00

END CONSTRUCTION
-Y9- POT Sta.11+00.00
TIE TO EXIST. C&G LT. & RT.

1'-6" CONC. C&G

+00.00 -Y9- @ EXIST. R/W

@ EXIST. R/W +76.00 -Y9-

RETAIN SYSTEM

+53.00 -L- 50.00 (LT)
+65.00 -L- 56.00 (LT)

BEGIN RETAINING WALL
-L- STA. 110+43.50 (-WALL1-)
DO NOT DISTURB TREES

+50.00 -L- 57.00 (RT)

-L- POT Sta.109+96.95
-Y9- POT Sta. 10+00.00

+70.00 -L- 50.00 (RT) @ PROP. R/W 63.29 (RT)

2 S BK APARTMENTS

DO NOT DISTURB TREES

+45.00 -L- 70.00 (RT)

+60.00 -L- @ EXIST. R/W

+80.00 -L- 70.00 (RT)

+50.00 -L- 62.00 (RT)
+00.00 -L- @ EXIST. R/W 70.00 (RT)
+50.00 -L- 59.00 (RT)

+80.00 -L- @ EXIST. R/W 70.00 (RT)
+30.00 -L- 81.00 (RT) 50.00 (RT)

+40.00 -L- 81.00 (RT)

CLASS B RIPRAP W/FILTER FABRIC EST. 2 TONS EST. 7 SY FABRIC

+40.00 -L- 95.00 (LT)

+00.00 -L- 50.00 (RT)

DO NOT DISTURB FENCE
DO NOT DISTURB EARTH BERM

+16.00 -L- 76.00 (RT) 60.00 (RT) 50.00 (RT)
+54.00 -L- 76.00 (RT) 50.00 (RT)

PSH 4.5' X 4.5' SEE DETAIL G @ 8 CY EXCAVATION @ 26 SY FF @ 10 TONS

+15.00 -L- 77.00 (RT)

+25.00 -Y8- @ EXIST. R/W

+65.00 -Y8- @ EXIST. R/W

+00.63 -Y8- @ EXIST. R/W

+50.00 -Y8- @ EXIST. R/W

@ SIGHT DIST. 45.00 (LT)

75' MEDIAN TRANSITION

350' FULL

100' TAPER

75' TAPER +96.83

REMOVE GUARDRAIL

N 64° 49' 47.8" E

SR 1108 FIRETOWER RD 36'BST

GRAU-350

JB wMH (194)

CAT JB wMH

5' CONC. SIDEWALK

RIP RAP

RETAIN

REMOVE

30'CONC REMOVE

24" HDPE

30" CONC

5' CONC. SIDEWALK

1'-6" CONC. C&G

4" PLASTIC

BRICK COLUMN

72" WD

CONC

2SBKD

2SFD

2SFAPT

ISBKD

WOODS

BST PARKING

GRASS SWALE SEE DETAIL 'A'

CLASS B RIPRAP W/FILTER FABRIC EST. 2 TONS EST. 7 SY FABRIC

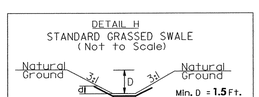
2 S BK APARTMENTS

-BY8-2 POT 6+88.00

BEGIN CONSTRUCTION
-Y8- PC Sta. 10+00.00

-BL-13 PINC STA. 108+56.84
-BY9-2 POT STA. 7+69.01
-L- STA. 109+92.07 (26.22 RT)

DETAIL H
STANDARD GRASSED SWALE
(Not to Scale)



Min. D = 1.5 Ft.
Max. d = 1 Ft.
B = 2 Ft.
Type of Liner = PSRM

52 x 14 x 3 2.0 inch Skimmer with 1.5 inch Orifice Diameter 5 ft. weir

43 x 14 x 3 2.0 inch Skimmer with 1.5 inch Orifice Diameter 6 ft. weir

61 63 63Z 63ZZ 64 65 66 67 68 69 69Z 70

PROJECT REFERENCE NO.	SHEET NO.
U-3613B	EC-25/CONST.12
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83

-L-

PI Sta 117+56.33
△ = 7° 13' 04.2" (LT)
D = 2° 30' 00.0"
L = 288.71'
T = 144.55'
R = 2,291.83'
SE = 0.03

-BL-14 PINC STA. 114+92.34
-Y10-1POT STA. 5+00.00
-L- STA. 116+27.37 (28.63 RT)=
-Y10- STA. 11+76.78 (36.91 RT)

-L- PC Sta. 116+11.78

-L- PT Sta. 119+00.50

BROOKSTONE DRIVE (PUBLIC)
24' BST W/ 2' CURBS & GUTTERS

END RETAINING WALL
-L- STA. 115+50.00 (-WALL1-)
SEE WALL PLANS FOR GRADING DETAILS

DO NOT DISTURB TREES

MATCHLINE -L- STA. 112+50.00 (SEE SHEET 11)

MATCHLINE -L- STA. 124+50.00 (SEE SHEET 13)

70 71 72 73 74 75 76 77 78 79 80 81 82 83A 83AZ 84 85A 85B 85C 69

PLISFD 77.00 (LT) 69.12 (LT) PROP. R/W

+50.00 -L- 70.00 (LT)

+30.00 -L- 56.00 (LT)
+30.00 -L- 50.00 (LT)

+55.00 -L- 60.00 (LT)

+75.00 -L- 77.00 (LT) 66.42 (LT) @ PROP. R/W

+11.78 -L- 50.00 (LT)
+20.00 -L- 60.00 (LT)

+27.00 -L- 63.00 (LT) 50.00 (LT)

+47.00 -L- 63.00 (LT) 50.00 (LT)

+68.00 -L- 63.00 (LT) 50.00 (LT)

+70.00 -L- 63.00 (LT) 50.00 (LT)

+88.00 -L- 63.00 (LT) 50.00 (LT)

+50.00 -L- 63.00 (LT) 50.00 (LT) RETAIN

25' TAPER

80' INC. TYPICAL

75' INC. TYPICAL

40' INC. TYPICAL

+00.00 -L- 62.00 (RT)

+25.00 -L- 50.00 (RT)
+25.00 -L- 64.00 (RT)
+25.00 -Y10- +10.00 44.00 (LT)
+20.00 -Y10- 35.00 (LT) @ EXIST. R/W

+50.00 -L- 60.00 (RT)
+50.00 -L- 60.00 (RT)

+50.00 -L- 58.00 (RT)

+00.50 -L- 50.00 (RT)

+85.00 -L- 50.00 (RT)

+50.00 -L- 61.00 (RT)

+70.00 -L- 75.00 (RT) 65.00 (RT) 50.00 (RT)
+50.00 -L- 65.00 (RT)

+00.00 -L- 65.00 (RT)
+40.00 -L- 75.00 (RT) 65.00 (RT)

+00.00 -Y10- 38.00 (LT)
+50.00 -Y10- 40.00 (LT)

+00.00 -Y10- 42.00 (RT.)

+20.00 -Y10- 35.00 (RT.) @ EXIST. R/W

+50.00 -Y10- 41.00 (RT.)

+50.00 -Y10- 30.00 (RT.)

+32.00 -Y10- @ EXIST. R/W

+50.00 -Y10- 31.00 (LT)

+32.00 -Y10- @ EXIST. R/W

+32.00

+82.50

+72.50

+97.00

N 64° 49' 47.8" E

N 25° 44' 41.2" W

N 57° 36' 43.6" E

-Y10-2 POT 6+78.23

-L- POT Sta. 115+90.37 = -Y10- POT Sta. 12+05.73

-L- POT Sta. 120+00

-Y10- POT Sta. 9+00.00

BEGIN CONSTRUCTION
-Y10- Sta. 9+32.00

END SIDEWALK & 2'-6" C&G
BEGIN VALLEY GUTTER
-Y10- STA. 11+21.45 LT

REMOVE ISLAND

BEGIN SIDEWALK
-Y10- STA. 11+21.45 RT

END SIDEWALK
-L- STA. 118+40.95

END C & G
-L- STA. 118+43.98

BEG. SIDEWALK
-L- STA. 119+01.36

BEG. C & G
-L- STA. 118+98.91

1'-6" CONC. C&G

SEE TYPICAL SHEET 2-A FOR LEFTOVER DETAIL

SEE DETAIL SHEET 2-I FOR ISLAND CUT FOR FOREST SERVICE EMERGENCY ACCESS

DO NOT DISTURB TOWER

RT DEVELOPMENT, INC
DB 1457 PG 517
MB 59 PG 48

100' TRANSITION LT. & RT.

25' TAPER +25.00

115+00 REMOVE

120+00 REMOVE

REMOVE

PARKING LOT UNDER CONSTRUCTION

BST PARKING LOT

1S BK BUS (SHOPPING CENTER)

CONC CATCH BASIN

MTL RAMP

FIRE TOWER

SR 1708 FIRE TOWER RD

5' CONC. SIDEWALK

24" CONC CURBING

DIRECTION ONLY

RETAIN

COLLAR

PDE

ARC

CHORD

10' O.S.

4" PLASTIC 4" SERRATED

SPRINKLER

GRAU 1850

ISBKD

ISFD

2SBKD

1S BK D

2 S BK D

ISF D

BST

CONC

MTL

GR

WD

DKJ

IRONC

24" C&G

72"WD

84"WD

8" PVC

18" PVC

15"

18"

24"

30"

30" CONC

30" CP

10" CP

24" CONC

CB

DI

S

G

B

LT

RT

E

C

R/W

ROW

PROP. R/W

EXIST. R/W

PROP. ROW

7/2/99

PROJECT REFERENCE NO.	SHEET NO.
U-3613B	EC-26/CONST.13
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

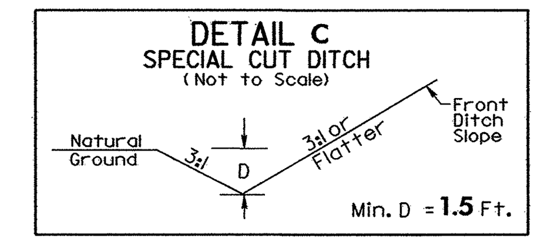
-Y11-

PI Sta 10+46.00
Δ = 7° 34' 44.2" (RT)
D = 8° 15' 00.0"
L = 91.87'
T = 46.00'
R = 694.49'
SE = 0.033

-L-

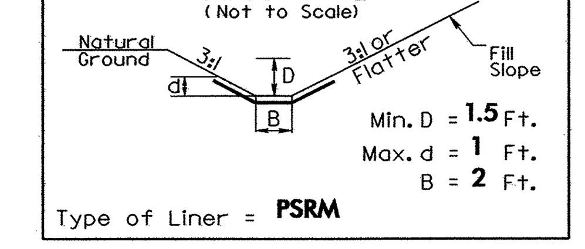
PI Sta 127+01.53	PI Sta 139+77.26
Δ = 4° 21' 23.0" (RT)	Δ = 17° 53' 45.4" (LT)
D = 1° 30' 00.0"	D = 2° 30' 00.0"
L = 290.43'	L = 715.84'
T = 145.28'	T = 360.86'
R = 3,819.72'	R = 2,291.83'
SE = 0.025	SE = 0.03

DETAIL C
SPECIAL CUT DITCH
(Not to Scale)



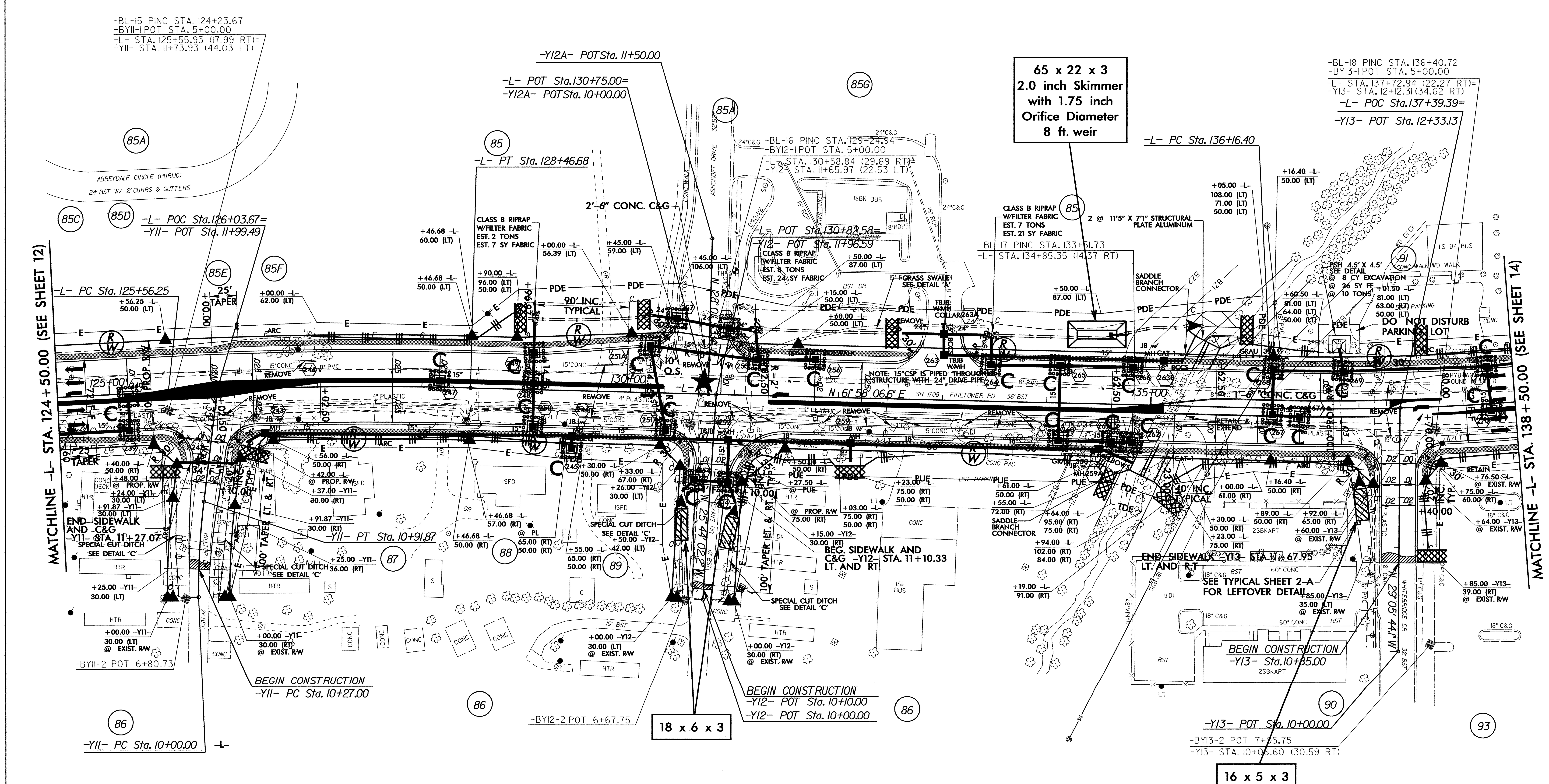
-Y11- STA 10+00 TO 11+50 RT & LT
-Y12- STA 10+00 TO 11+50 RT & LT

DETAIL A
GRASS SWALE
(Not to Scale)



Type of Liner = PSRM

FROM -L-129+00 TO -L-135+50



NAD 83
-BL-15 PINC STA. 124+23.67
-BY11-1 POT STA. 5+00.00
-L- STA. 125+55.93 (17.99 RT)=
-Y11- STA. 11+73.93 (44.03 LT)
-Y12A- POT Sta. 11+50.00
-L- POT Sta. 130+75.00=
-Y12A- POT Sta. 10+00.00
-L- PT Sta. 128+46.68
-L- POC Sta. 126+03.67=
-Y11- POT Sta. 11+99.49
-L- PC Sta. 125+56.25
-BL-16 PINC STA. 129+24.94
-BY12-1 POT STA. 5+00.00
-L- STA. 130+58.84 (29.69 RT)=
-Y12- STA. 11+65.97 (22.53 LT)
-L- POT Sta. 130+82.58=
-Y12- POT Sta. 11+96.59
65 x 22 x 3
2.0 inch Skimmer
with 1.75 inch
Orifice Diameter
8 ft. weir
-L- PC Sta. 136+16.40
-BL-17 PINC STA. 133+51.73
-L- STA. 134+85.35 (14.37 RT)
-BL-18 PINC STA. 136+40.72
-BY13-1 POT STA. 5+00.00
-L- STA. 137+72.94 (22.27 RT)=
-Y13- STA. 12+12.31 (34.62 RT)
-L- POC Sta. 137+39.39=
-Y13- POT Sta. 12+33.13
ABBEYDALE CIRCLE (PUBLIC)
24' BST W/ 2' CURBS & GUTTERS
ASHCROFT DRIVE
2'-6" CONC. C&G
CLASS B RIPRAP W/FILTER FABRIC EST. 2 TONS EST. 7 SY FABRIC
CLASS B RIPRAP W/FILTER FABRIC EST. 8 TONS EST. 24 SY FABRIC
CLASS B RIPRAP W/FILTER FABRIC EST. 7 TONS EST. 21 SY FABRIC
2 @ 11'5" X 7'1" STRUCTURAL PLATE ALUMINUM
GRASS SWALE SEE DETAIL 'A'
SADDLE BRANCH CONNECTOR
PSH 4.5' X 4.5' SEE DETAIL @ 8 CY EXCAVATION @ 26 SY FF @ 10 TONS
DO NOT DISTURB PARKING LOT
90' INC. TYPICAL
25' TAPER
NOTE: 15"CSP IS PIPED THROUGH STRUCTURE WITH 24" DRIVE PIPE
N 61° 58' 06.6" E SR 1708 FIRETOWER RD 36' BST
MATCHLINE -L- STA. 124+50.00 (SEE SHEET 12)
MATCHLINE -L- STA. 138+50.00 (SEE SHEET 14)
END SIDEWALK AND C&G -Y11- STA. 11+27.07
SPECIAL CUT DITCH SEE DETAIL 'C'
-Y11- PT Sta. 10+91.87
BEG. SIDEWALK AND C&G -Y12- STA. 11+10.33 LT. AND RT.
100' TAPER LT. & RT.
40' INC. TYPICAL
END SIDEWALK -Y13- STA 11+67.95 LT. AND RT.
SEE TYPICAL SHEET 2-A FOR LEFTOVER DETAIL
BEGIN CONSTRUCTION -Y13- Sta. 10+85.00
-BY11-2 POT 6+80.73
BEGIN CONSTRUCTION -Y11- PC Sta. 10+27.00
-Y11- PC Sta. 10+00.00
-BY12-2 POT 6+67.75
18 x 6 x 3
BEGIN CONSTRUCTION -Y12- POT Sta. 10+10.00
-Y12- POT Sta. 10+00.00
-Y13- POT Sta. 10+00.00
-BY13-2 POT 7+05.75
-Y13- STA. 10+06.60 (30.59 RT)
16 x 5 x 3

PROJECT REFERENCE NO.	SHEET NO.
U-3613B	EC-27/CONST.14
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L-	
PI Sta 139+77.26	PI Sta 149+75.62
Δ = 17° 53' 45.4" (LT)	Δ = 14° 24' 15.9" (LT)
D = 2° 30' 00.0"	D = 3° 45' 00.0"
L = 715.84'	L = 384.12'
T = 360.86'	T = 193.08'
R = 2,291.83'	R = 1,527.89'
SE = 0.03	SE = 0.04

-Y16-
PI Sta 11+81.08
Δ = 55° 57' 13.4" (RT)
D = 85° 00' 00.0"
L = 65.83'
T = 35.81'
R = 67.41'
SE = 0.04

NAD 83

MATCHLINE -L- STA. 138+50.00 (SEE SHEET 13)

END CONSTRUCTION
-Y15- POT Sta.10+85.00
-BYI5-IPOT 5+00.00

-L- STA.151+70.00
END PROJECT U-3613B
END SIDEWALK AND TIE TO EXIST. C&G LT. & RT.

-L- POT Sta.145+96.38=
-Y15- POT Sta. 10+00.00

-L- PT Sta.151+66.66

-L- POC Sta.149+73.58=
-Y16- POT Sta. 13+01.00

-Y15- POT Sta. 11+81.05

END SIDEWALK AND TIE TO EXIST. C&G -Y15- STA. 10+84.53 LT. AND RT.

-L- PT Sta. 143+32.24

-L- PC Sta. 147+82.55

2'-6" CONC. C&G

TRANSITION TO EXISTING

RETAIN EXIST. R/W

1'-6" CONC. C&G

RETAINING WALL WITH HANDRAIL
-L- STA. 143+00.00 TO -L- STA. 144+85.00
-BL-U3613-5 PINC STA. 143+89.66
-BYI4- POT STA. 5+00.00
-BYI5- POT STA. 8+16.18
-L- STA. 145+16.66 (43.29 RT)=
-Y14- STA. 13+46.48 (55.06 LT)

DO NOT DISTURB SIGN

END SIDEWALK AND C&G -Y14- STA. 12+63.06 LT. AND RT.

265' RT. TURN TAPER

4' CONCRETE PAVED DITCH STD. 850.01

CLASS B RIPRAP W/FILTER FABRIC EST. 3 TONS EST. 10 SY FABRIC

CLASS B RIPRAP W/FILTER FABRIC EST. 5 TONS EST. 14 SY FABRIC

SPECIAL CUT DITCH GRASS LINED SEE DETAIL C

-Y14- PINC Sta. 10+00.00

-BL-I9 PINC STA. 147+57.31
-BYI6-1POT STA. 5+00.00
-L- STA. 148+81.82 (37.53 RT)=
-Y16- STA. 12+81.89 (98.32 LT)

-Y14- POT Sta. 14+05.18

-Y16- PT Sta. 12+11.10

BEGIN CONSTRUCTION
-Y16- Sta.11+80.00

-Y16- PC Sta. 11+45.27

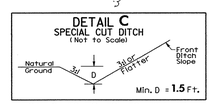
-Y16- POT Sta. 10+00.00

-BYI6-2POT 8+28.98

END SIDEWALK AND C&G -Y16- STA. 12+04.87 LT. AND RT.

MATCHLINE -Y14- STA. 9+75.00 (SEE SHEET 17)

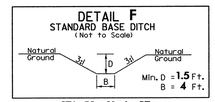
DETAIL C
SPECIAL CUT DITCH
(Not To Scale)



STA. 9+50 TO 12+50 -Y14- LT.
STA. 6+30 TO 12+50 -Y14- RT.

PROJECT REFERENCE NO.	SHEET NO.
U-3613B	EC-28/CONST.16
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DETAIL F
STANDARD BASE DITCH
(Not To Scale)



STA. 53+81 -L- RT.

NAD 83

CULTIVATION

22

92 x 17 x 3
9' weir

@ PL
927.00 (RT)

+68.00 -L-
924.00 (RT)

+87.00 -L-
601.00 (RT)

4' BASE DITCH
GRASS LINED
SEE DETAIL F

TDE

36" SPLIT RAIL

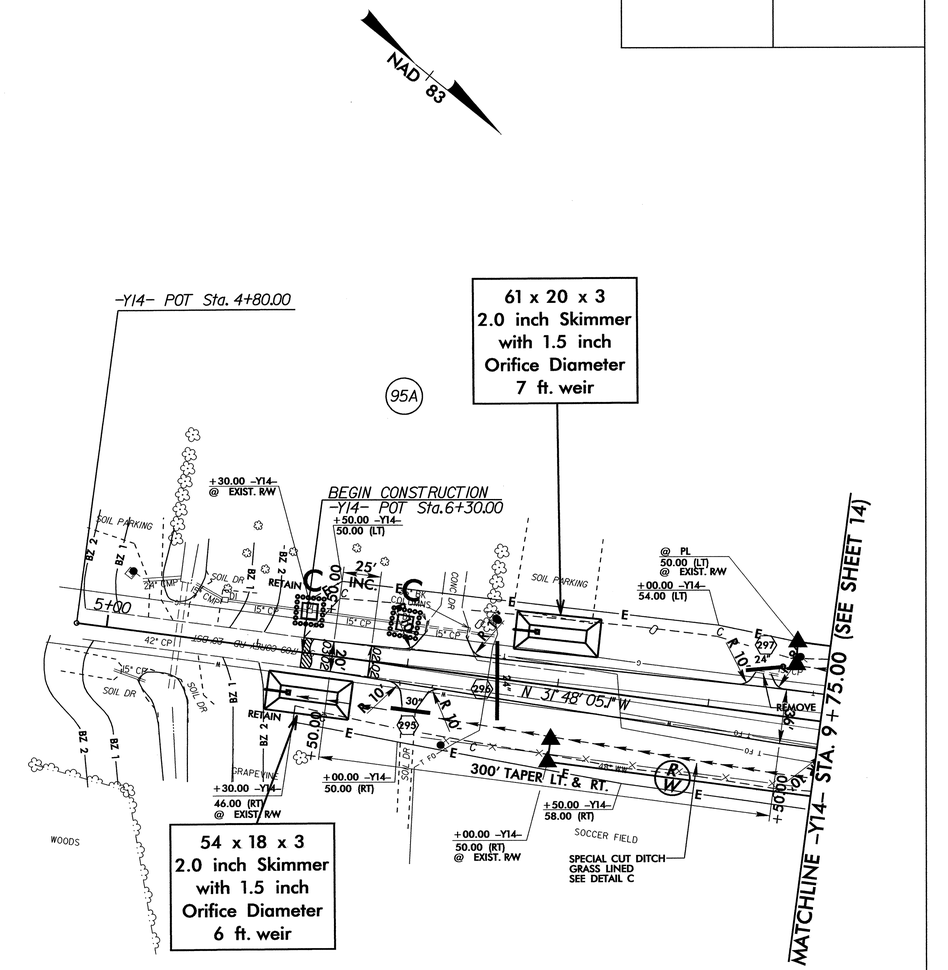
48" WW

CULTIVATION

22

MATCHLINE (SEE SHEET 7)

24



7/2/99

PROJECT REFERENCE NO.	SHEET NO.
U-3613B	EC-29/CONST.17
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

STA. 6+30 TO 12+50 -Y14- RT.