

TIP PROJECT: U-3613B

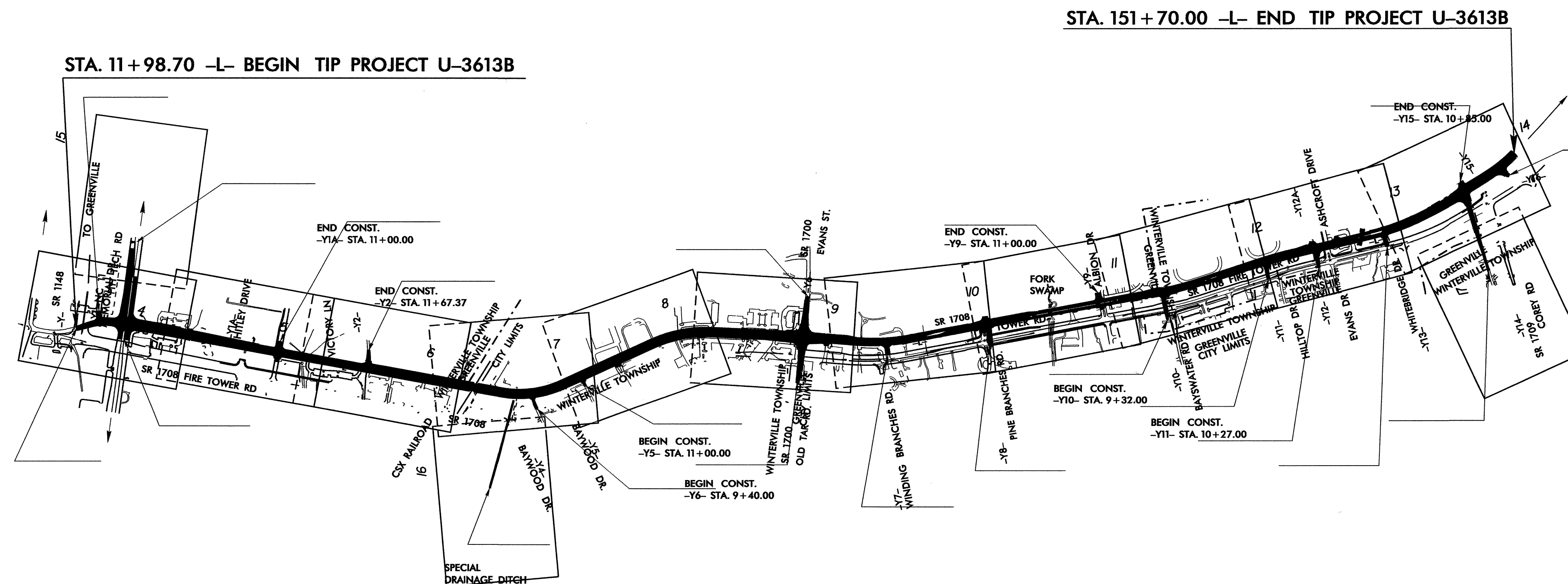
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL
PITT COUNTY

**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 | |
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EROSION AND SEDIMENT CONTROL MEASURES

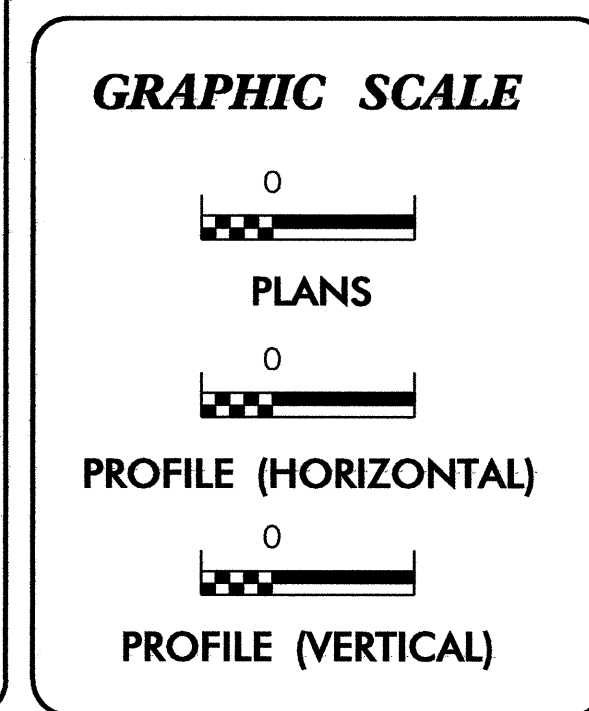
| Std. # | Description | Symbol |
|---------------------------|--------------------------------------|--------|
| | Streambank Reforestation | |
| 1630.03 | Temporary Silt Ditch | |
| 1630.05 | Temporary Diversion | |
| 1605.01 | Temporary Silt Fence | |
| 1606.01 | Special Sediment Control Fence | |
| 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 | OR |
| 1632.02 | Type B | OR |
| 1632.03 | Type C | OR |



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.



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 revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

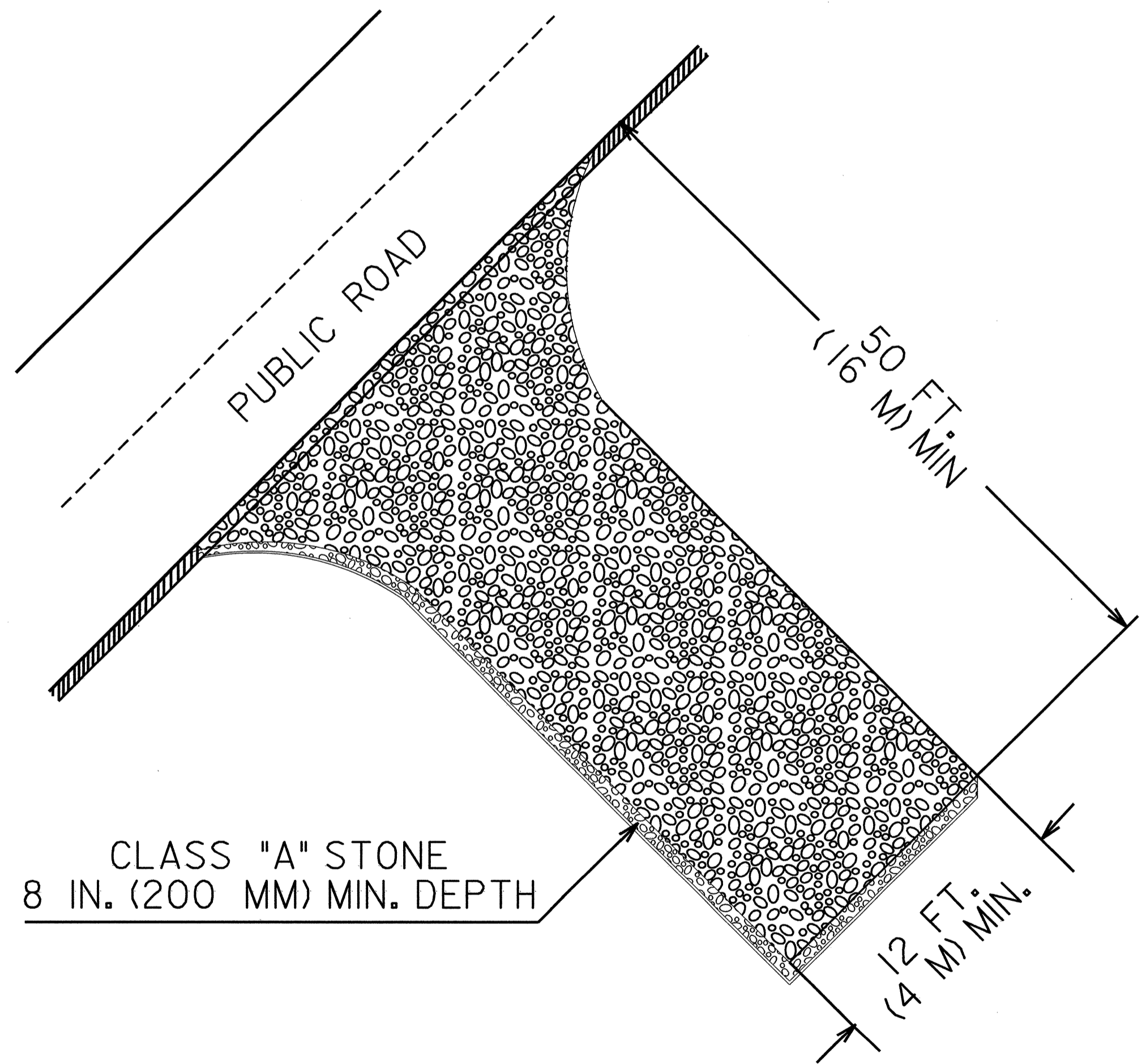
| | |
|--|--|
| 1605.01 Temporary Silt Fence | 1632.03 Rock Inlet Sediment Trap Type C |
| 1606.01 Special Sediment Control Fence | 1633.01 Temporary Rock Silt Check Type A |
| 1622.01 Temporary Berms and Slope Drains | 1633.02 Temporary Rock Silt Check Type B |
| 1630.02 Silt Basin Type B | 1634.02 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:

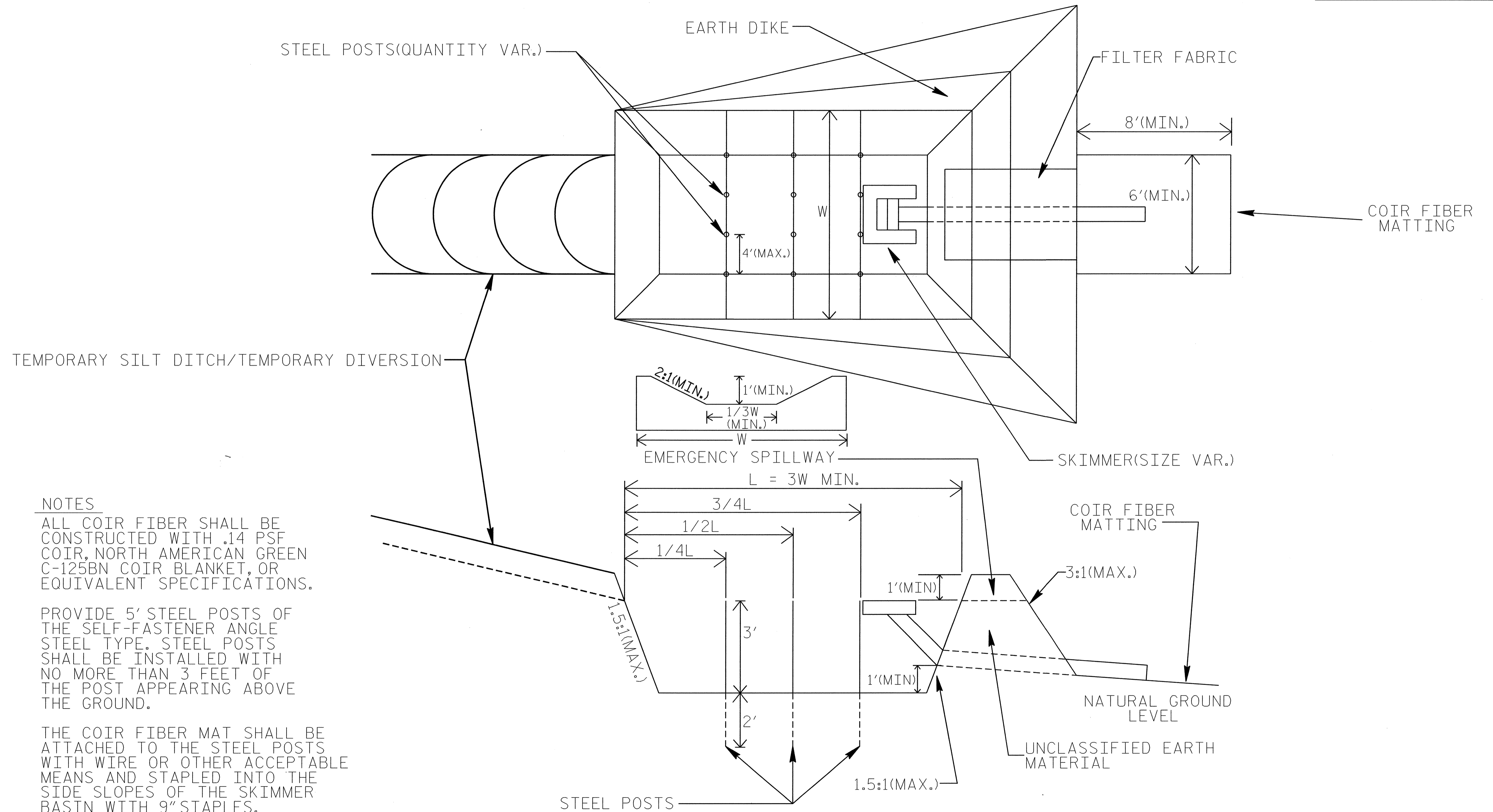
1. TURNING RADIUS SUFFICIENT TO ACCOMODATE LARGE TRUCKS SHALL BE PROVIDED.
2. ENTRANCE(S) SHOULD BE LOCATED TO PROVIDE FOR UTILIZATION BY ALL CONSTRUCTION VEHICLES.
3. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE WILL 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

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

SKIMMER BASIN WITH BAFFLES DETAIL



NOTES

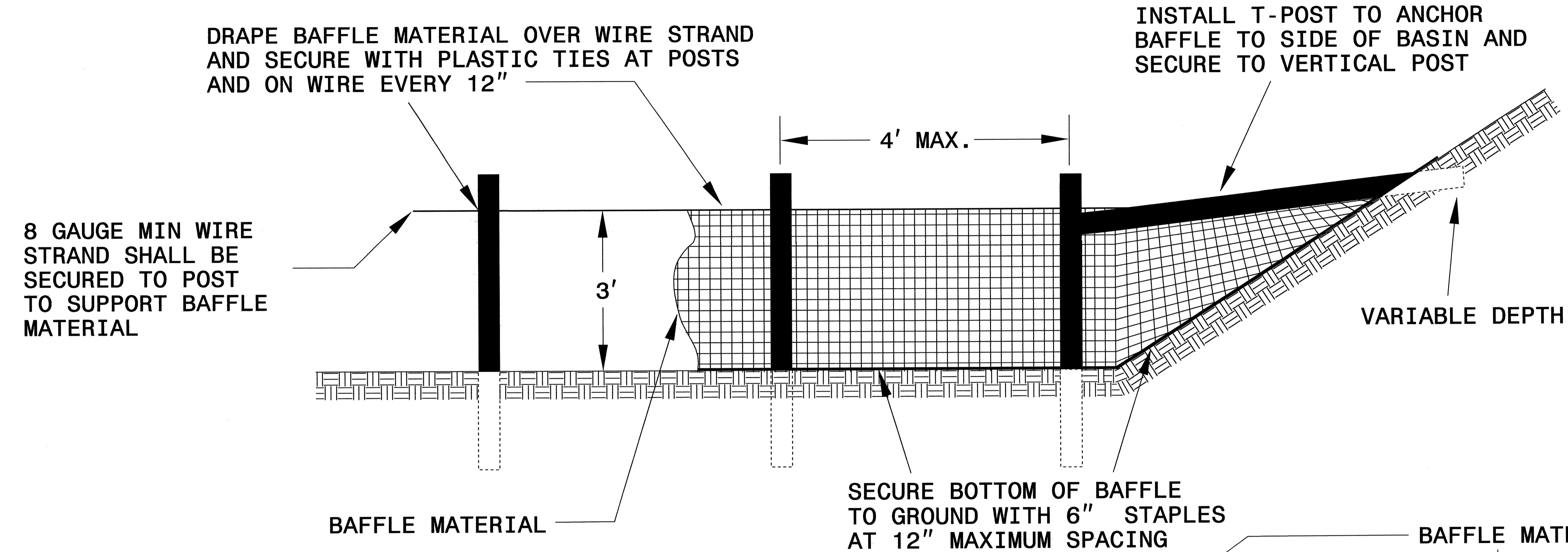
ALL COIR FIBER SHALL BE CONSTRUCTED WITH .14 PSF COIR, NORTH AMERICAN GREEN C-125BN COIR BLANKET, OR EQUIVALENT SPECIFICATIONS.

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.

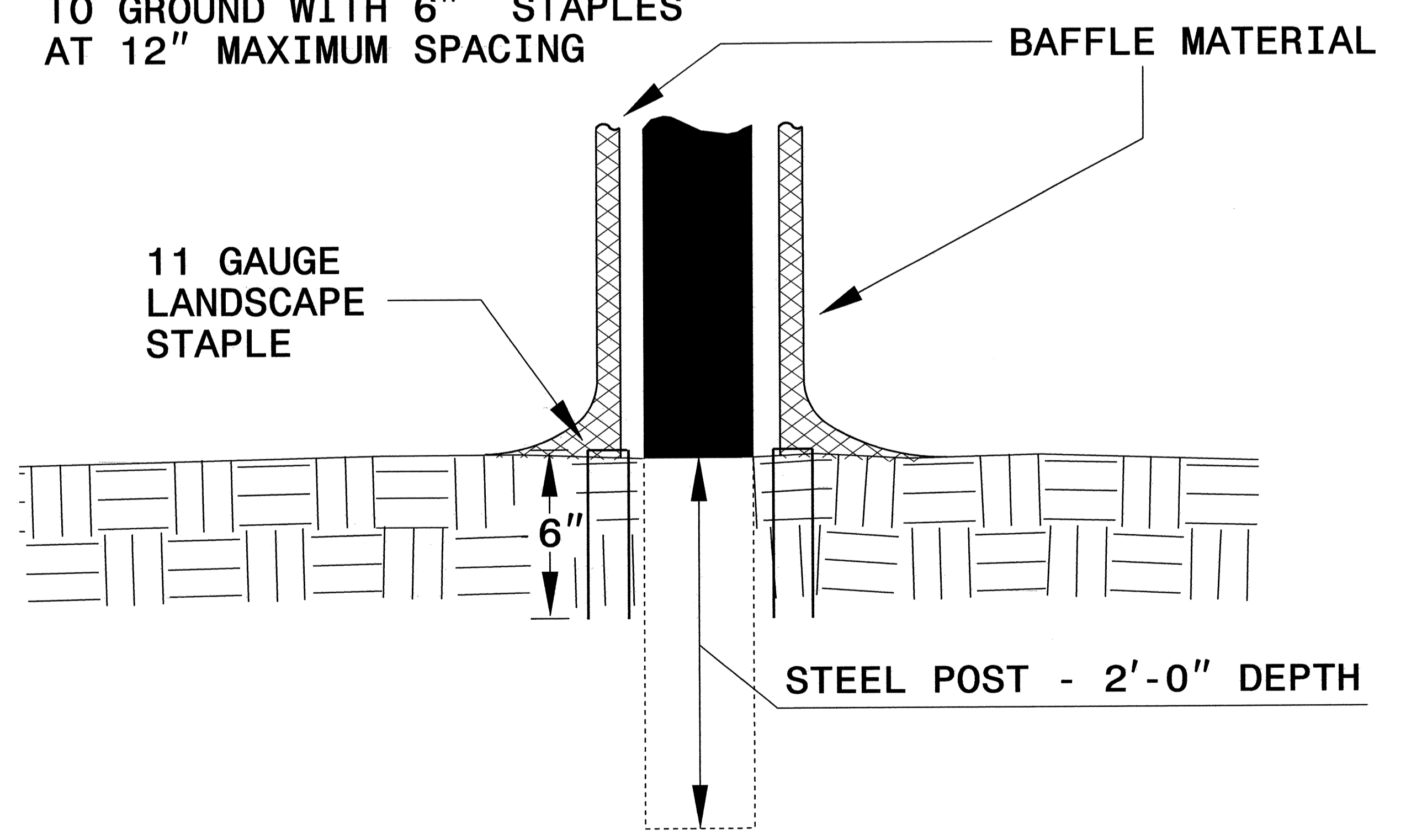
THE COIR FIBER MAT SHALL BE ATTACHED TO THE STEEL POSTS WITH WIRE OR OTHER ACCEPTABLE MEANS AND STAPLED INTO THE SIDE SLOPES OF THE SKIMMER BASIN WITH 9" STAPLES.

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|----------------------------------|------------------------|
| PROJECT REFERENCE NO. U-3613B | SHEET NO. EC-3B |
| RW 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.

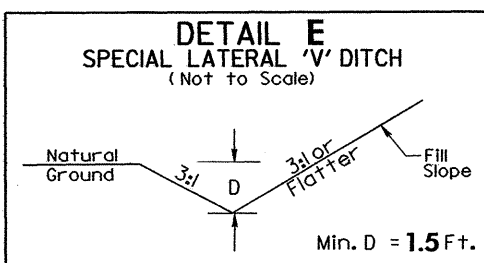


BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 6" LANDSCAPE STAPLES

**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.



STA 12+00 TO 14+00 -L- RT

-BL-U3613-2 PINC STA. 13+80.82
-BYI- PINC STA. 7+74.48
-L- STA. 15+51.96 (12.42 RT)=
-YI- STA. 18+84.33 (128.31 LT)=

-BY-I POT STA. 5+00.00

-Y- PT Sta. 11+83.37

-Y- POC Sta. 11+00.00
END CONSTRUCTION

-BL-2 PINC STA. 12+70.46
-BY2- POT STA. 6+47.97
-L- STA. 14+48.67 (35.76 RT)=
-Y- STA. 10+39.59 (22.63 RT)=

-Y- PC Sta. 10+11.06

-L- POC Sta. 14+26.40=
-Y- POT Sta. 10+00.00

-L- PC Sta. 13+22.68 +22.68 -L- 50.00 (LT)

BEG. C&G AND PAVING
LT. & RT. -L- STA. 12+00

-L- PT STA. 11+98.70

BEGIN PROJECT U-3613B

-L- PC Sta. 10+00.00

CLASS B RIPRAP
W/FILTER FABRIC
EST. 1 TONS
EST. 3 SY FABRIC

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

SPECIAL LATERAL V DITCH
SEE DETAIL E

+30.00 -L- 50.00 (LT)
+62.00 (RT)
+98.70 -L- 50.00 (RT)
@ EXIST. RW

TIE TO EXIST. C&G
BEG. SIDEWALK
-L- STA. 14+50.00

END SIDEWALK
-YI- STA. 17+41.29

-BYI-3 POT STA. 11+09.21
-YI- STA. 15+46.05 (79.52 LT)=

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

MATCHLINE -YI- STA 23+00.00 (SEE SHEET 15)

25 x 8 x 3

-BYI-POT STA. 5+00.00
-YI- STA. 21+17.85 (65.62 LT)=

+20.00 -Y- @ EXIST. RW
+48.00 -YI- @ PL
+92.00 -L- @ PL

+50.00 -L- 60.00 (RT)
+60.00 (RT) @ EXIST. RW
+50.00 -YI- 88.00 (LT)
+55.09 -YI- @ EXIST. RW
+100.00 -YI- @ EXIST. RW

TIE TO EXIST. C&G
BEG. SIDEWALK
-L- STA. 14+50.00

END SIDEWALK
-YI- STA. 17+41.29

END SIDEWALK
-YI- STA. 19+43.35

TIE TO EXIST. C&G
BEG. SIDEWALK
-YI- STA. 19+71.10

-L- POT Sta. 16+78.69=
-YI- POT Sta. 18+48.72

+60.00 -YI- @ EXIST. RW
+00.00 -L- @ PROP. RW
+00.00 -L- 70.00 (LT)

+98.00 -L- 74.00 (RT)
74.00 (RT) @ EXIST. RW
48.00 (RT) @ PROP. RW
74.00 (RT) @ EXIST. RW

BEG. SIDEWALK
-YI- STA. 17+49.83

TIE TO EXIST. C&G

-YI- POT Sta. 17+00.00
BEGIN CONSTRUCTION

+98.00 -L- 74.00 (RT)
74.00 (RT) @ EXIST. RW
48.00 (RT) @ PROP. RW
74.00 (RT) @ EXIST. RW

+98.00 -L- 74.00 (RT)
74.00 (RT) @ EXIST. RW
48.00 (RT) @ PROP. RW
74.00 (RT) @ EXIST. RW

+98.00 -L- 74.00 (RT)
74.00 (RT) @ EXIST. RW
48.00 (RT) @ PROP. RW
74.00 (RT) @ EXIST. RW

+98.00 -L- 74.00 (RT)
74.00 (RT) @ EXIST. RW
48.00 (RT) @ PROP. RW
74.00 (RT) @ EXIST. RW

+98.00 -L- 74.00 (RT)
74.00 (RT) @ EXIST. RW
48.00 (RT) @ PROP. RW
74.00 (RT) @ EXIST. RW

+98.00 -L- 74.00 (RT)
74.00 (RT) @ EXIST. RW
48.00 (RT) @ PROP. RW
74.00 (RT) @ EXIST. RW

+98.00 -L- 74.00 (RT)
74.00 (RT) @ EXIST. RW
48.00 (RT) @ PROP. RW
74.00 (RT) @ EXIST. RW

+98.00 -L- 74.00 (RT)
74.00 (RT) @ EXIST. RW
48.00 (RT) @ PROP. RW
74.00 (RT) @ EXIST. RW

+98.00 -L- 74.00 (RT)
74.00 (RT) @ EXIST. RW
48.00 (RT) @ PROP. RW
74.00 (RT) @ EXIST. RW

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74.00 (RT) @ EXIST. RW
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74.00 (RT) @ EXIST. RW

+98.00 -L- 74.00 (RT)
74.00 (RT) @ EXIST. RW
48.00 (RT) @ PROP. RW
74.00 (RT) @ EXIST. RW

+98.00 -L- 74.00 (RT)
74.00 (RT) @ EXIST. RW
48.00 (RT) @ PROP. RW
74.00 (RT) @ EXIST. RW

+98.00 -L- 74.00 (RT)
74.00 (RT) @ EXIST. RW
48.00 (RT) @ PROP. RW
74.00 (RT) @ EXIST. RW

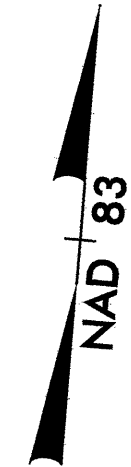
+98.00 -L- 74.00 (RT)
74.00 (RT) @ EXIST. RW
48.00 (RT) @ PROP. RW
74.00 (RT) @ EXIST. RW

+98.00 -L- 74.00 (RT)
74.00 (RT) @ EXIST. RW
48.00 (RT) @ PROP. RW
74.00 (RT) @ EXIST. RW

+98.00 -L- 74.00 (RT)
74.00 (RT) @ EXIST. RW
48.00 (RT) @ PROP. RW
74.00 (RT) @ EXIST. RW

+98.00 -L- 74.00 (RT)
74.00 (RT) @ EXIST. RW
48.00 (RT) @ PROP. RW
74.00 (RT) @ EXIST. RW

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



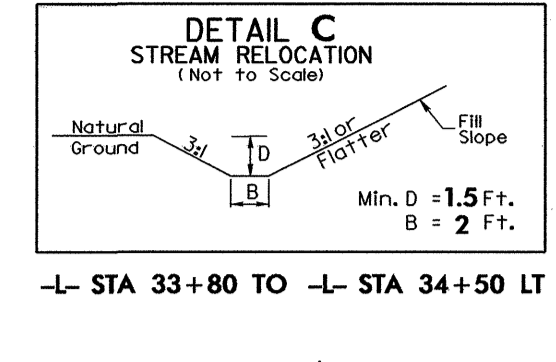
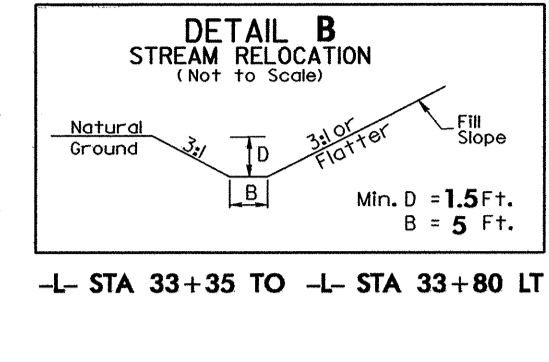
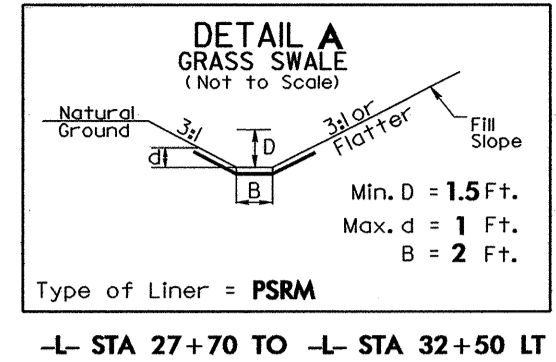
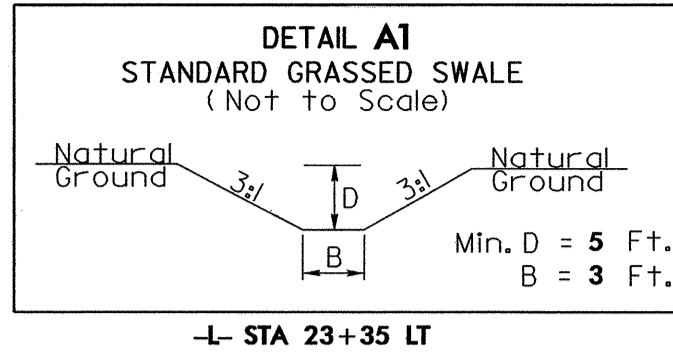
MATCHLINE -L- STA 21+50.00 (SEE SHEET 5)

★ Rev. REVISED SIGNAL

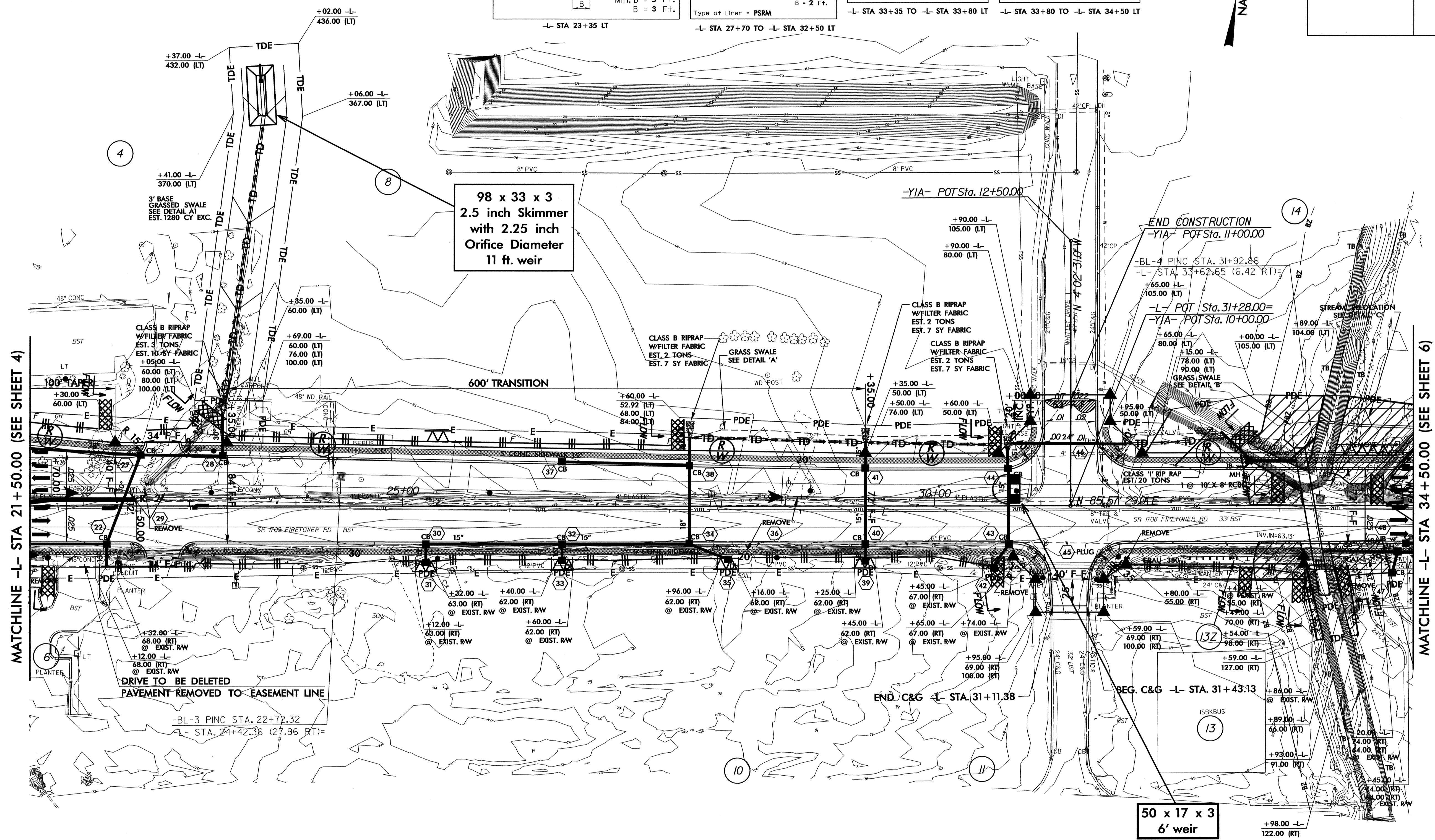
SEE SHEET 18 FOR -L- PROFILE
SEE SHEET 24 FOR -Y- PROFILE
SEE SHEET 24 FOR -YI- PROFILE

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.

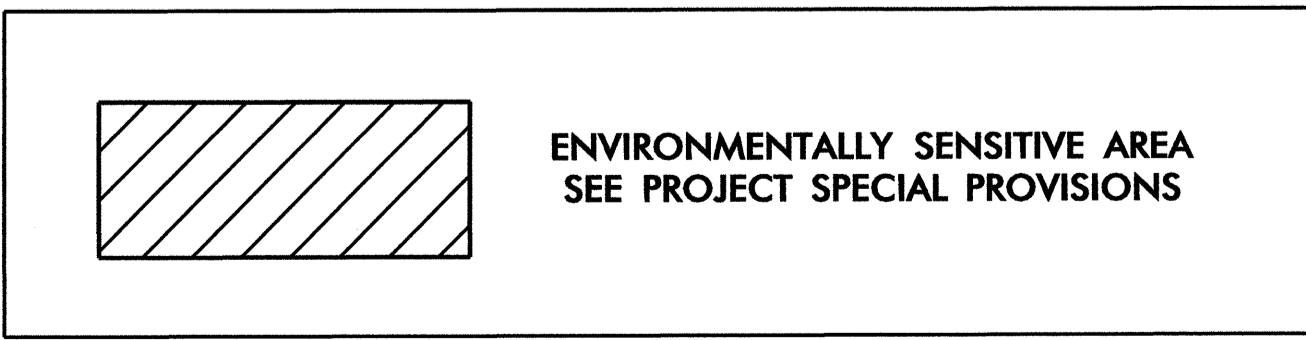


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|----------------------------------|---------------------------|
| PROJECT REFERENCE NO. U-3613B | SHEET NO. EC-5/CONST.5 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |



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

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



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

| | |
|---|-----------------------------------|
| PROJECT REFERENCE NO. <i>U-36/3B</i> | SHEET NO. <i>EC-5A/CONST.5</i> |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

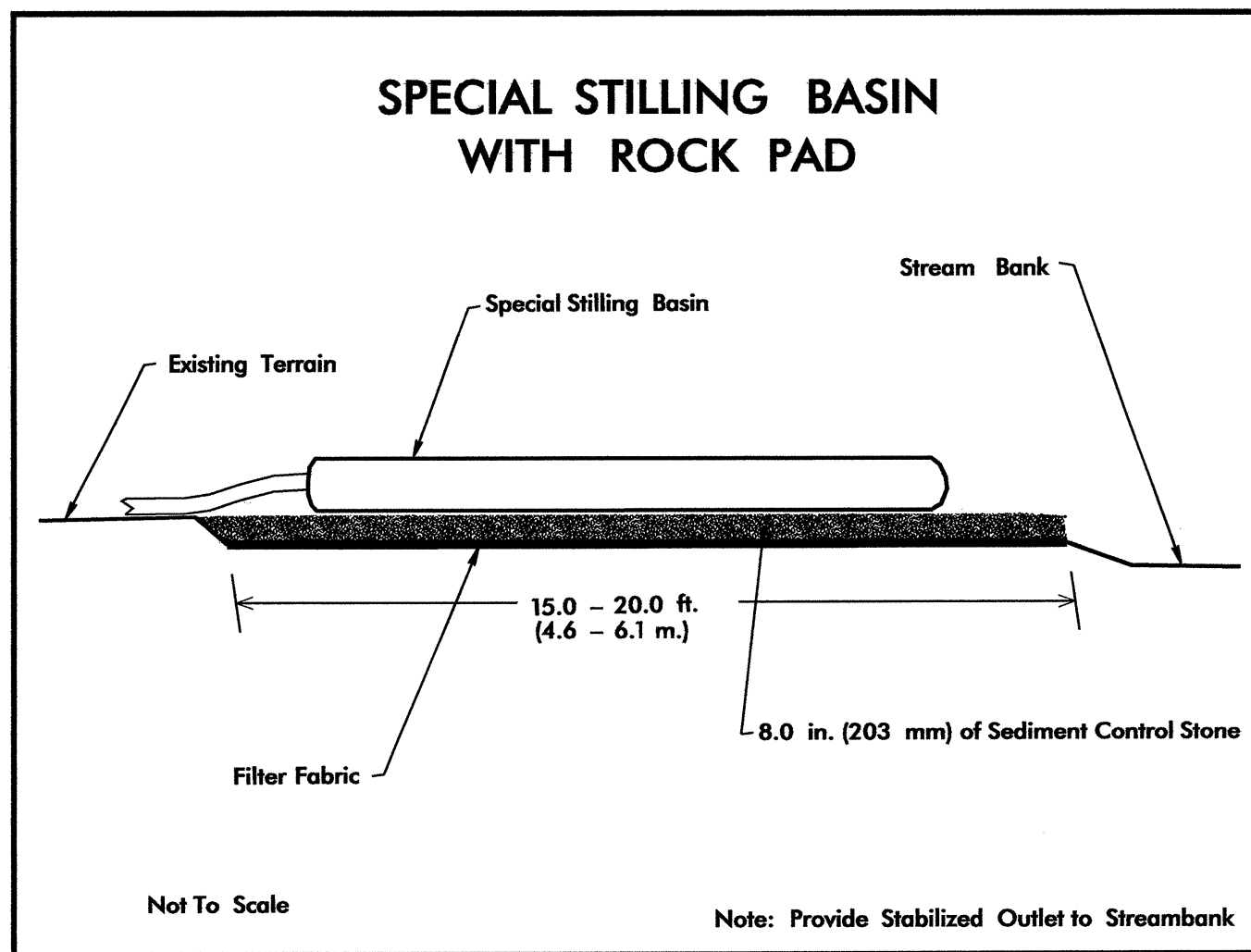
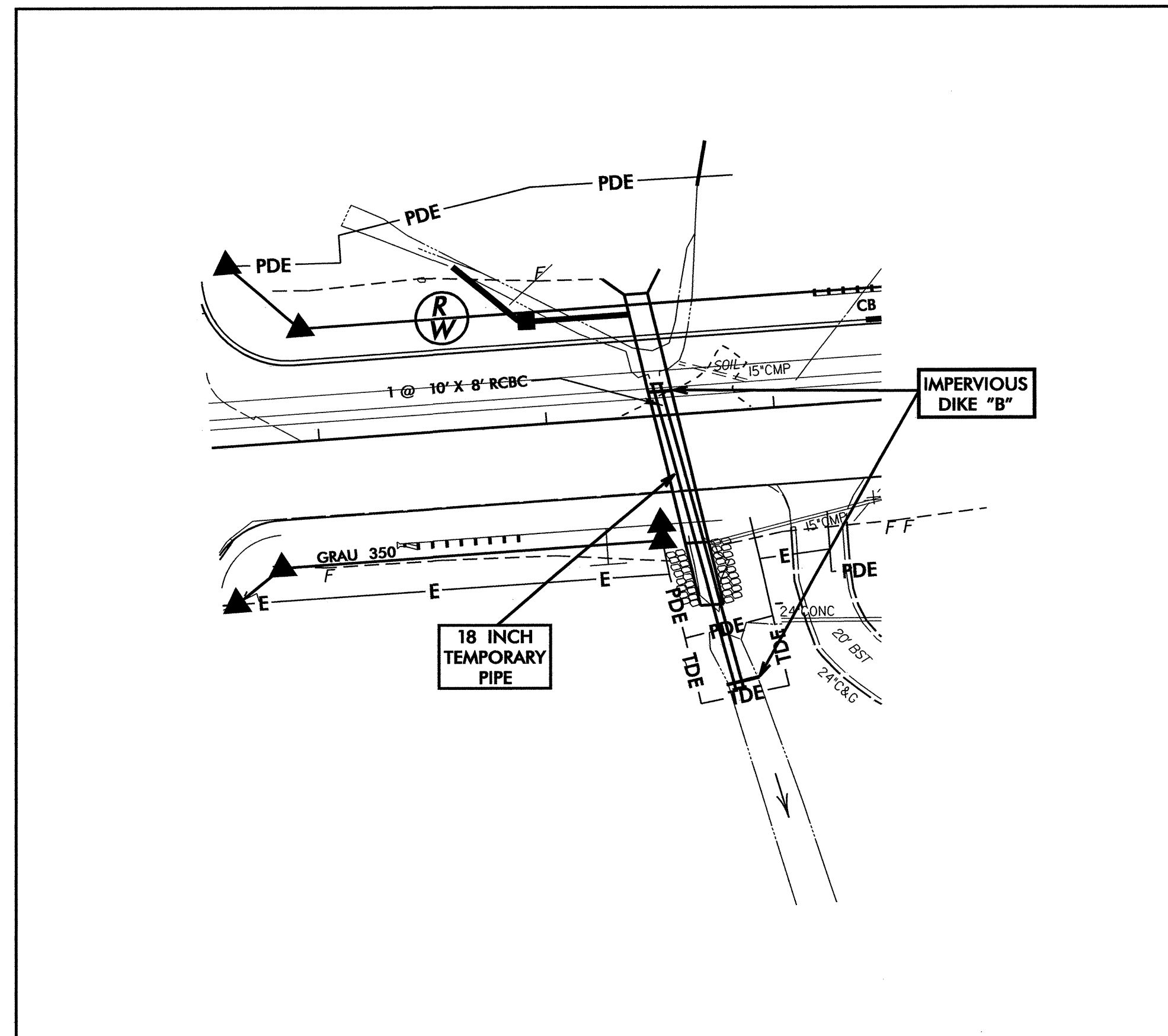
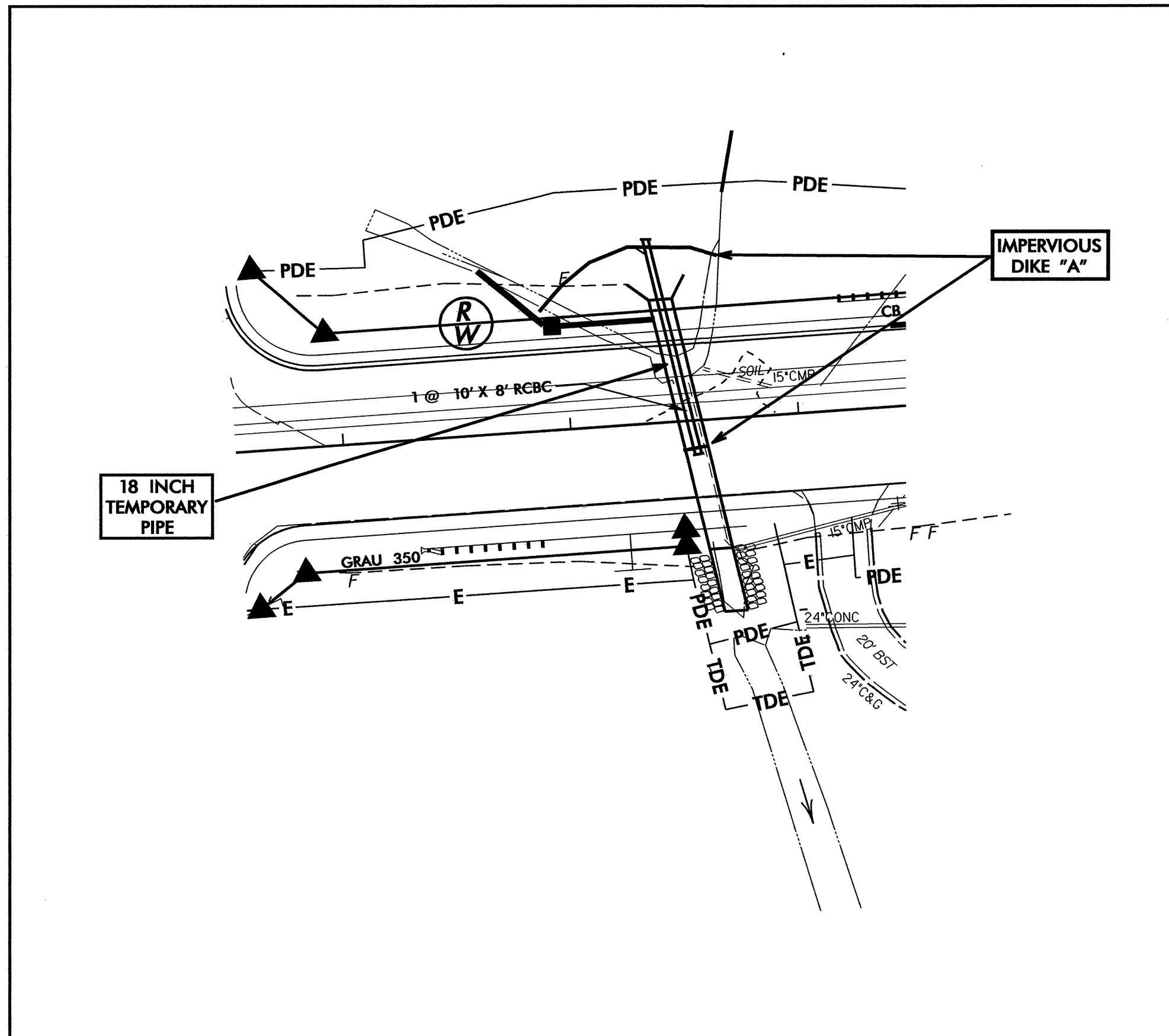
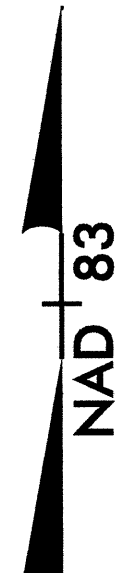
CULVERT CONSTRUCTION SEQUENCE STA. 33+52 -L-

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.

PHASE II

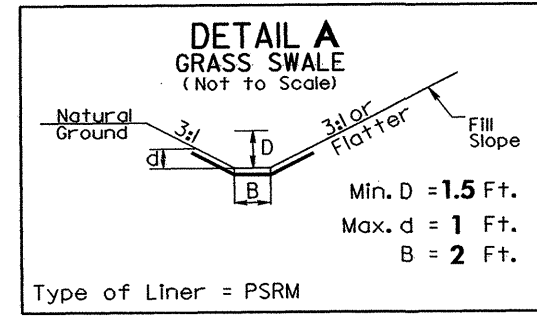
1. REMOVE IMPERVIOUS DIKE "A."
2. INSTALL IMPERVIOUS DIKE "B."
3. INSTALL 18" TEMPORARY PIPE.
4. REMOVE REMAINING 96" CMP.
5. COMPLETE CULVERT AND ROADWAY.
6. PUMP EFFLUENT INTO SPECIAL STILLING BASIN.



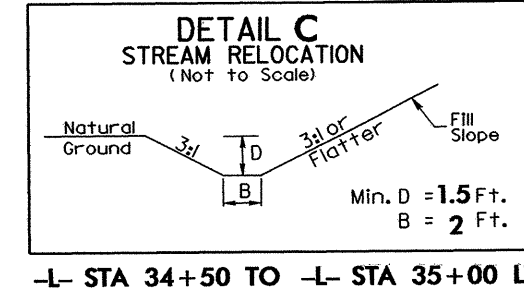
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

NOTE:

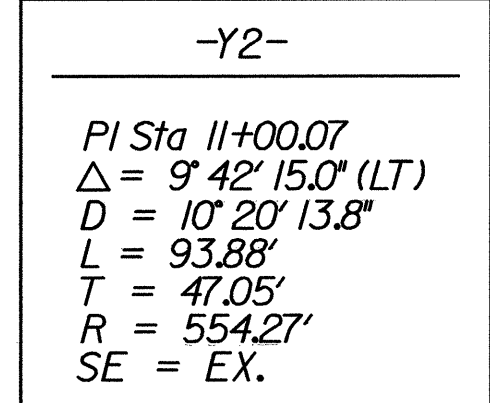
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.



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



—L- STA 34+50 TO —L- STA 35+00 LT



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

SHENANDOAH INVESTMENT GROUP, LLC
DBE53/PG19
DBT07/PG137
TRACT #7
PB21/PG6
PB5/PG103
PB22/PG178

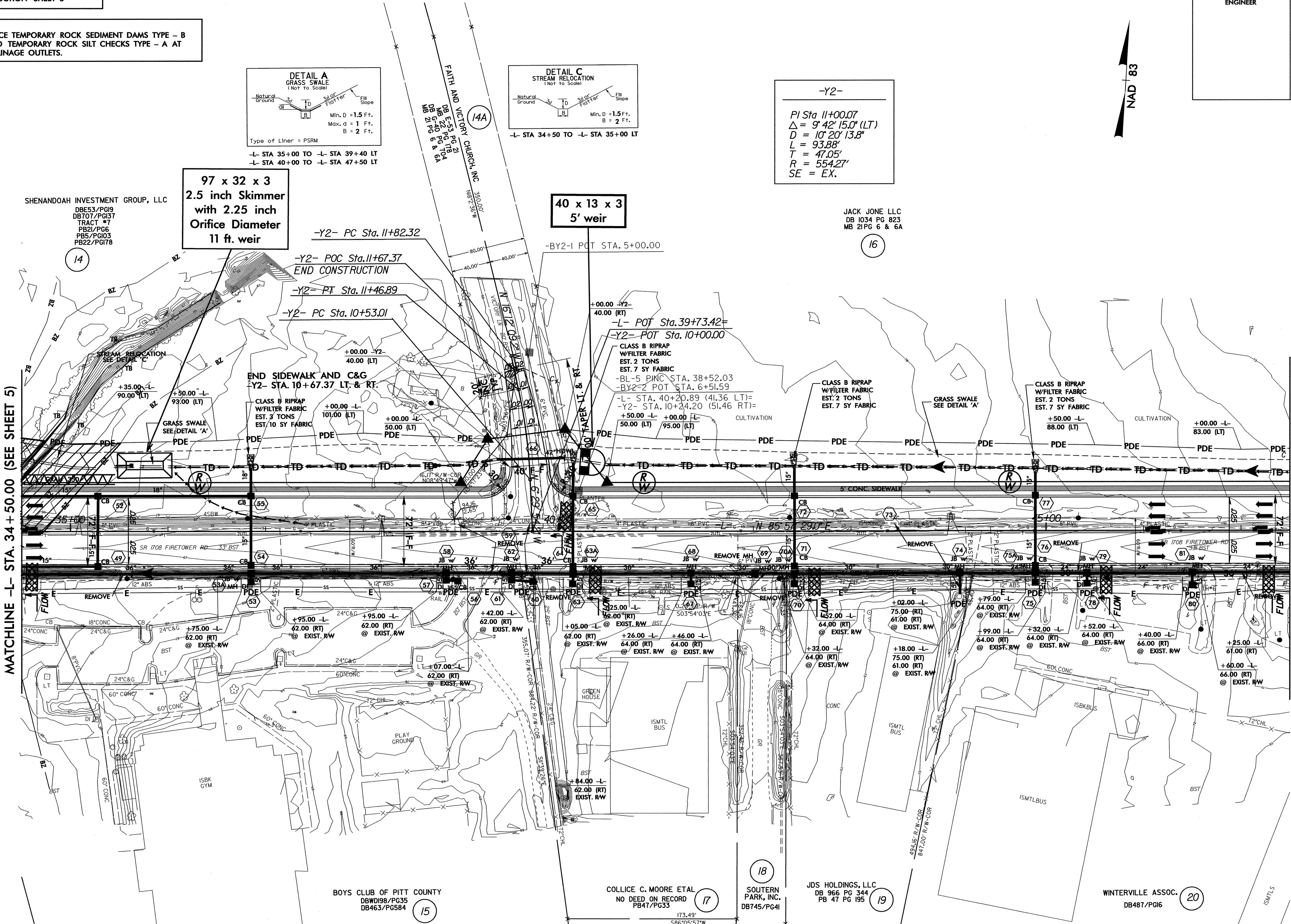
97 x 32 x 3
2.5 inch Skimmer
with 2.25 inch
Orifice Diameter
11 ft. weir

40 x 13 x 3
5' weir

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

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

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

SOUTHERN
PARK, INC.
DB745/PG41

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

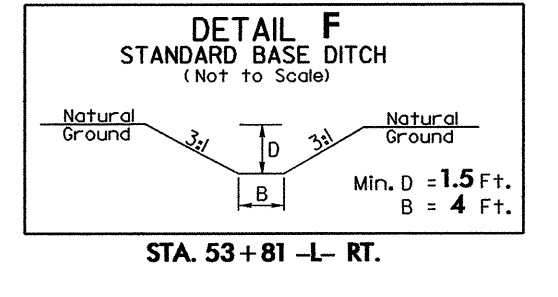
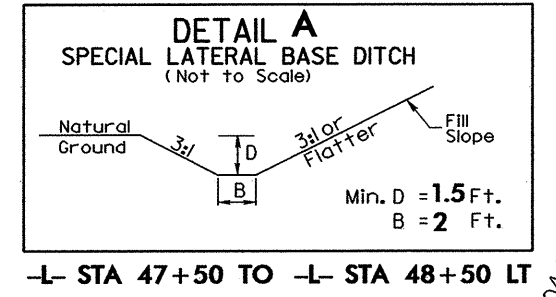
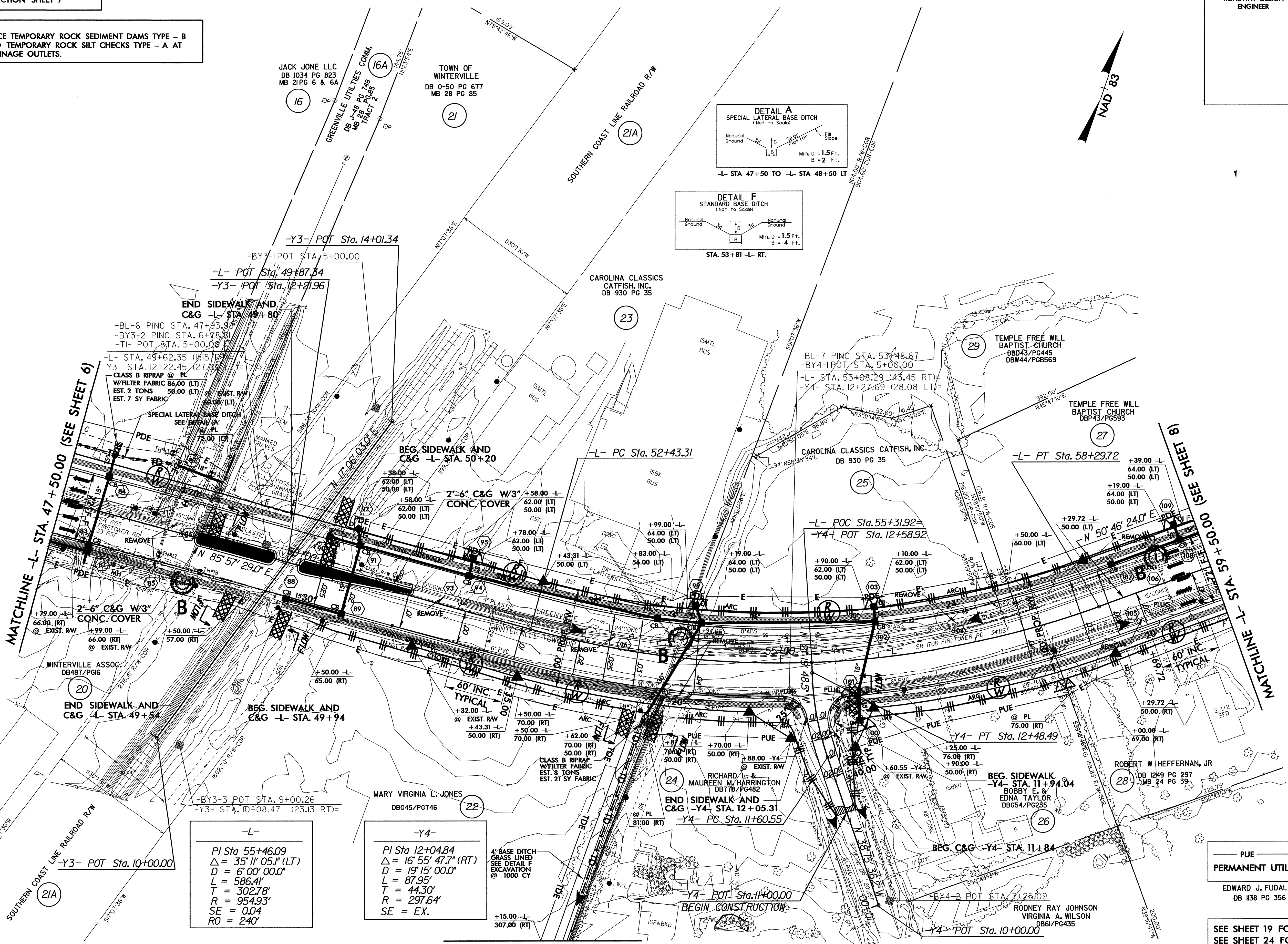
WINTERVILLE ASSOC.
DB487/PG16

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

**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.

| | |
|---|---------------------------|
| PROJECT REFERENCE NO. <i>U-3613B</i> | SHEET NO. EC-7/CONST.7 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |



-L-

| |
|-------------------------------------|
| PI Sta 55+46.09 |
| $\Delta = 35^\circ 11' 05.1''$ (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 |
| $\Delta = 16^\circ 55' 47.7''$ (RT) |
| D = 19' 15' 00.0" |
| L = 87.95' |
| T = 44.30' |
| R = 297.64' |
| SE = EX. |

— PUE — PUE —
PERMANENT UTILITY EASEMENT

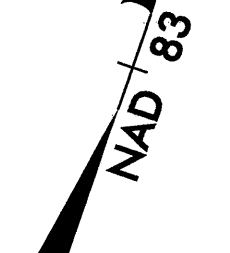
EDWARD J. FUDALIK
DB 1138 PG 356

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

MATCHLINE (SEE SHEET 16)

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

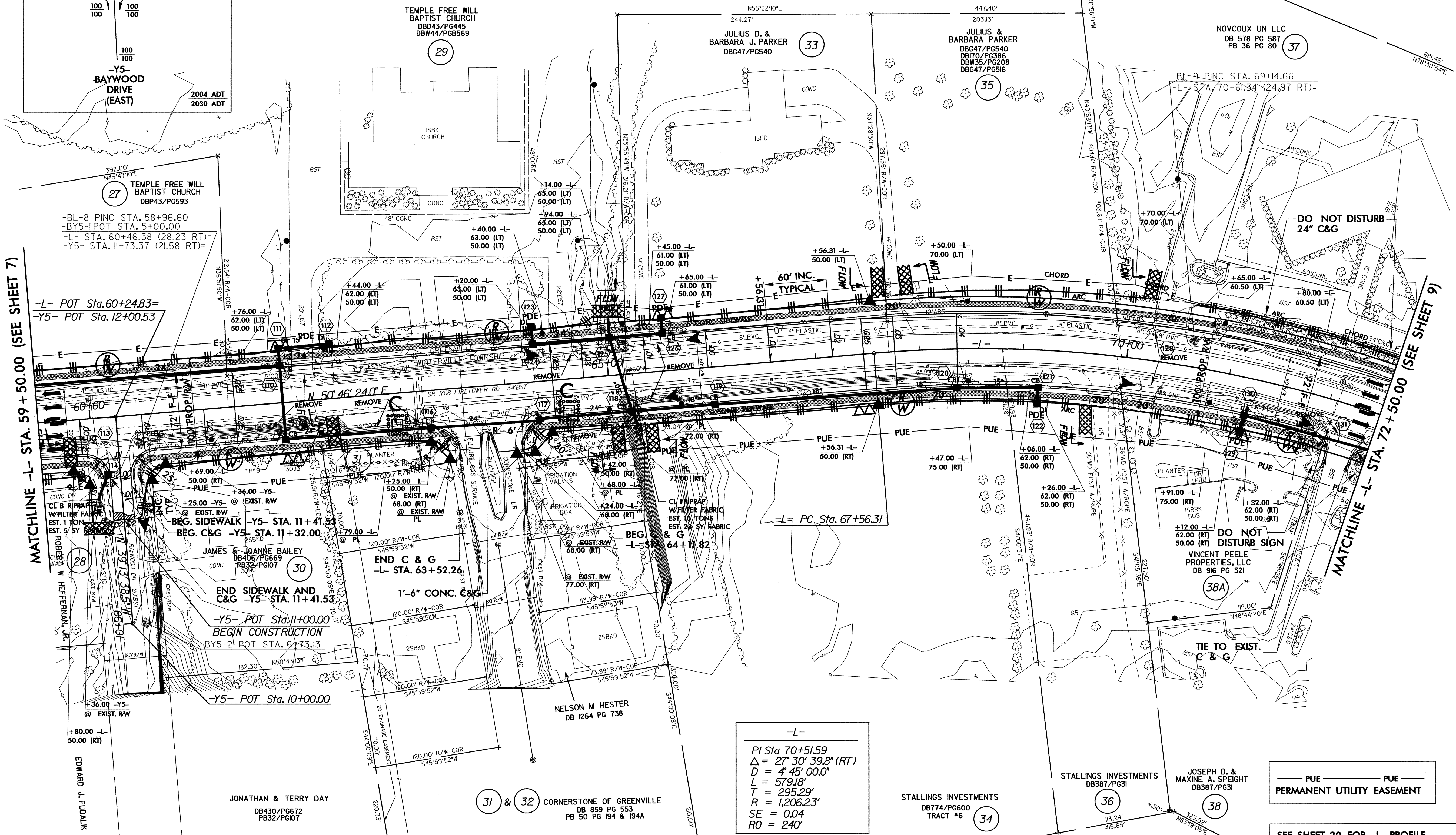
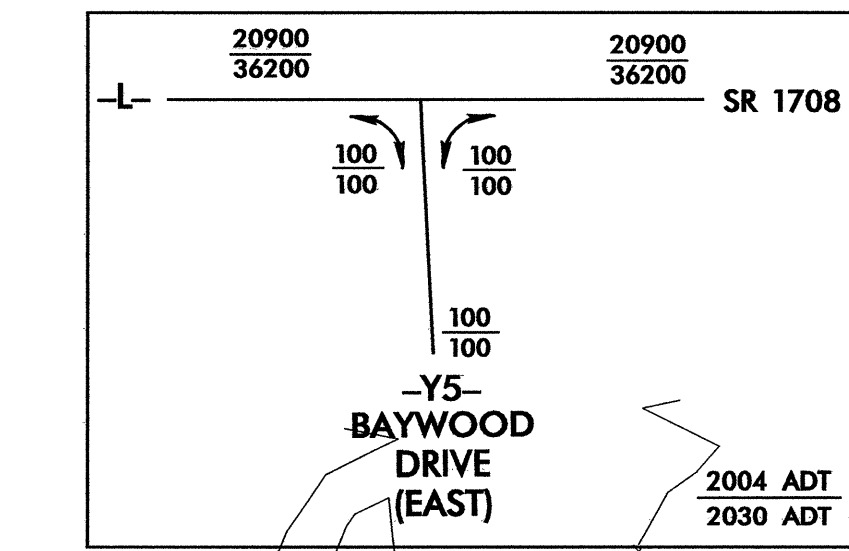
MATCHLINE -L- STA. 50+50.00 (SEE SHEET 8)



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.

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



-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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 9

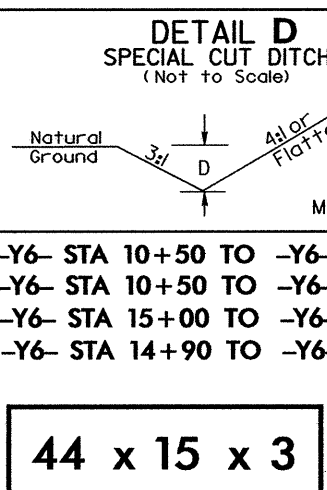
NOTE:

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

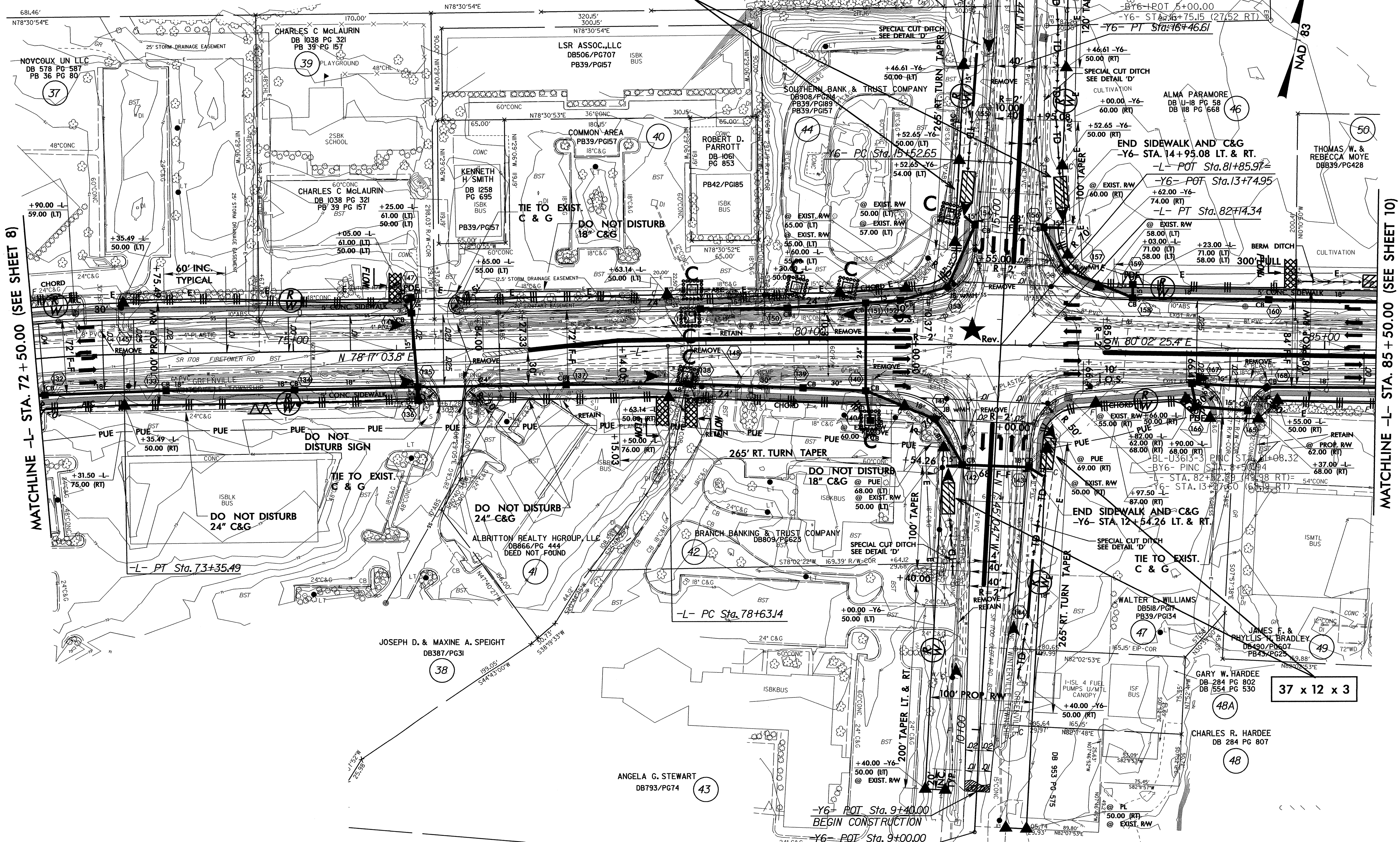
-L-
PI Sta 80+38.76
 $\Delta = 1' 45" 21.6" (RT)$
 $D = 0' 30" 00.0"$
 $L = 351.20'$
 $T = 175.61'$
 $R = 11,459.16'$
SE = N.C.

-Y6-
PI Sta 15+99.64
 $\Delta = 1' 38" 39.4" (LT)$
 $D = 1' 45" 00.0"$
 $L = 93.96'$
 $T = 46.98'$
 $R = 3,274.04'$
SE = N.C.

PI Sta 18+55.88
 $\Delta = 3' 29" 27.6" (LT)$
 $D = 2' 27" 40.2"$
 $L = 141.84'$
 $T = 70.94'$
 $R = 2,328.00'$
SE = N.C.



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



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

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

44 x 15 x 3

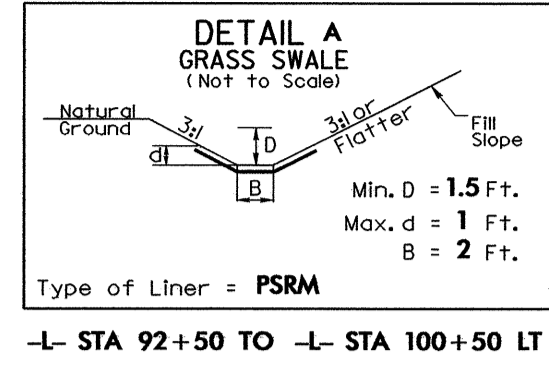
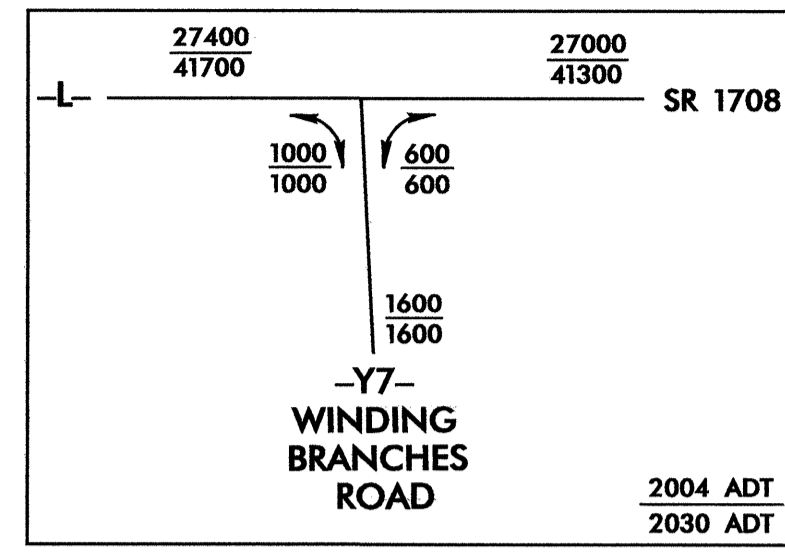
37 x 12 x 3

ANGELA G. STEWART
DB793/PG74 43

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 10

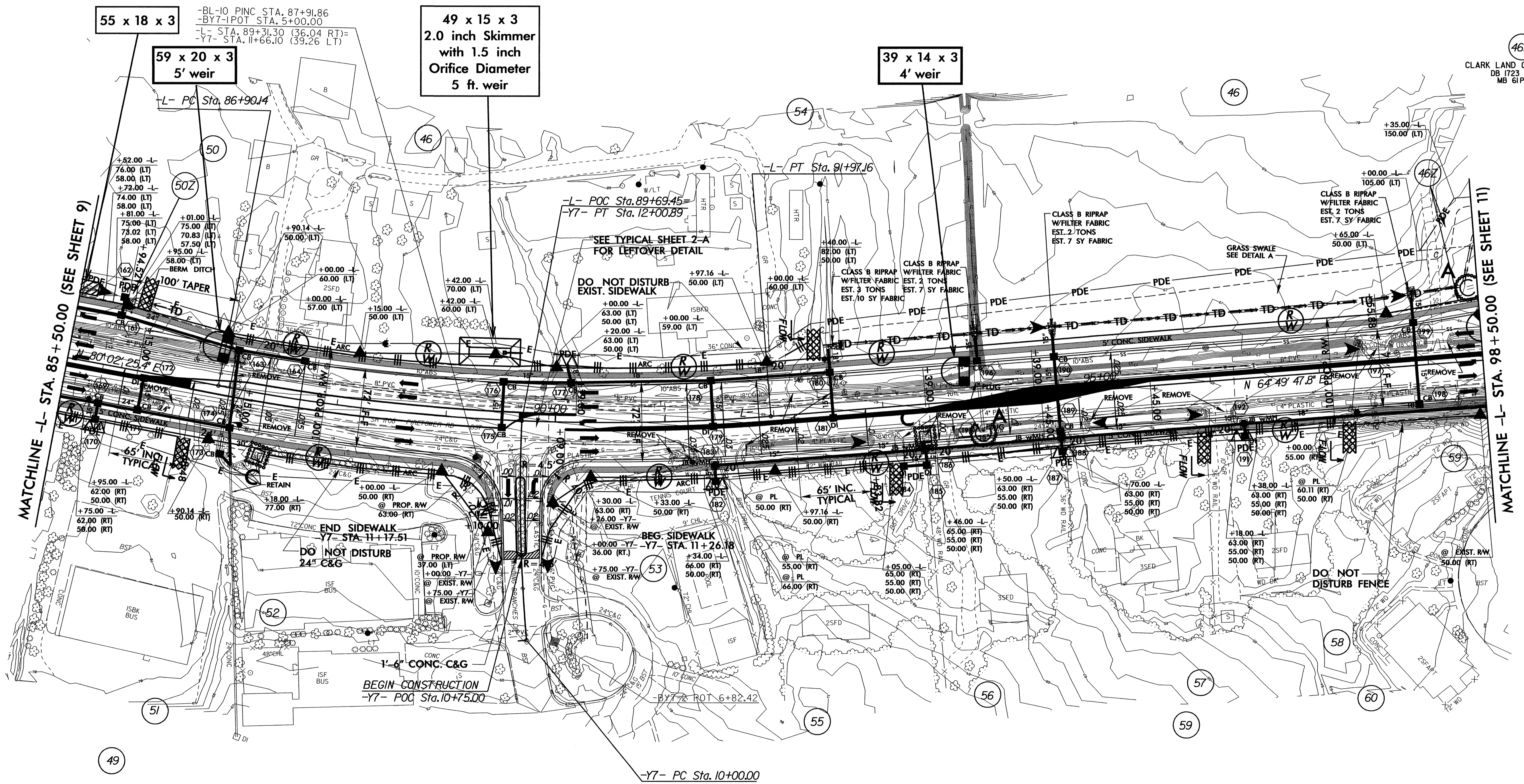
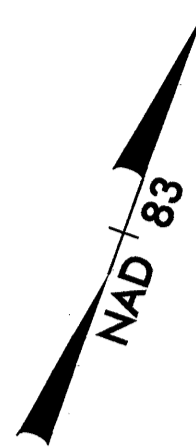
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

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



-L-
PI Sta 89+45.15
 $\Delta = 15' 12' 37.6''$ (LT)
 $D = 3' 00' 00.0''$
 $L = 507.0'$
 $T = 255.0'$
 $R = 1,909.86'$
 $SE = 0.035$

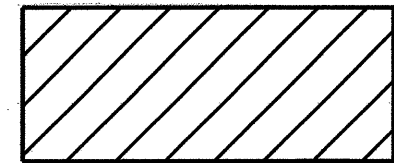
-Y7-
PI Sta 11+00.58
 $\Delta = 7' 16' 31.7''$ (RT)
 $D = 3' 37' 17.8''$
 $L = 200.89'$
 $T = 100.58'$
 $R = 1,582.05'$
 $SE = N.C.$



CLARK LAND COMPANY, LLC
DB 1723 PG 001
MB 61PG 99

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 11

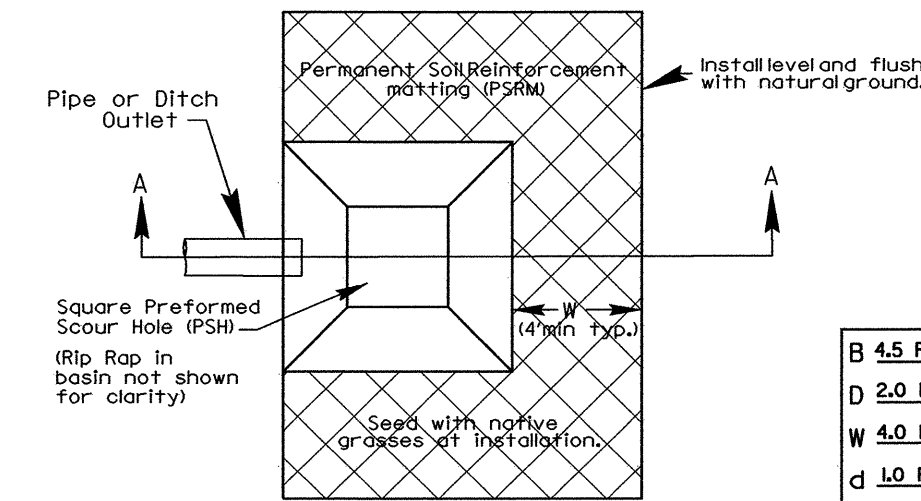
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.



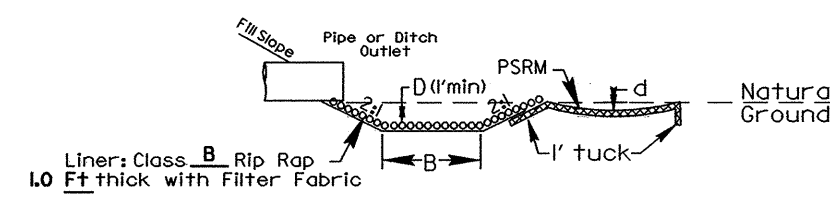
ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

DETAIL 'G'

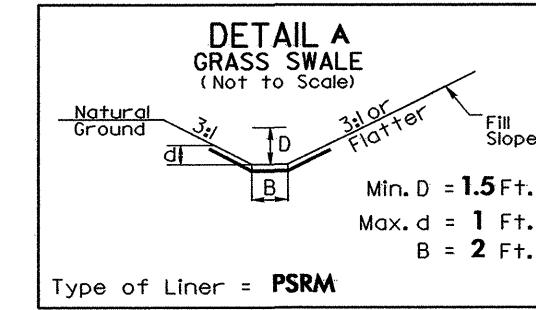
PREFORMED SCOUR HOLE WITH
LEVEL SPREADER APRON
PLAN VIEW



SECTION A-A



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



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

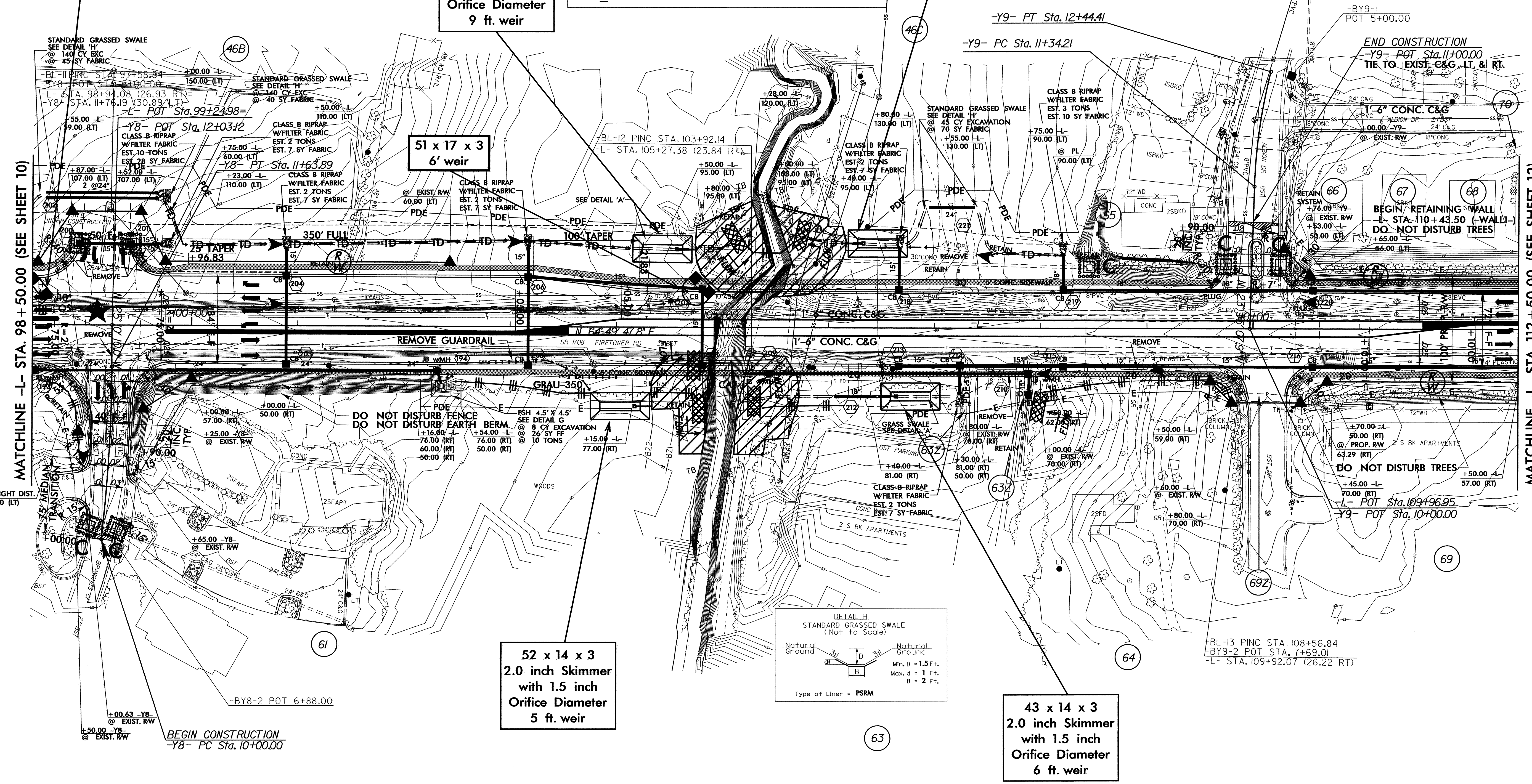
44 x 15 x 3
5' weir

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

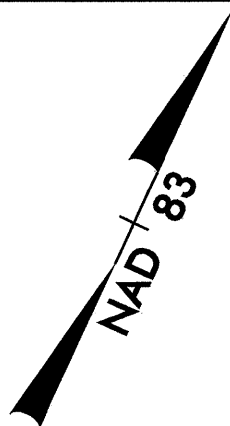
51 x 17 x 3
6' weir

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



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



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

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

SIGHT DIST. 45.00 (LT)

BEGIN CONSTRUCTION
-Y8- PC Sta. 10+00.00

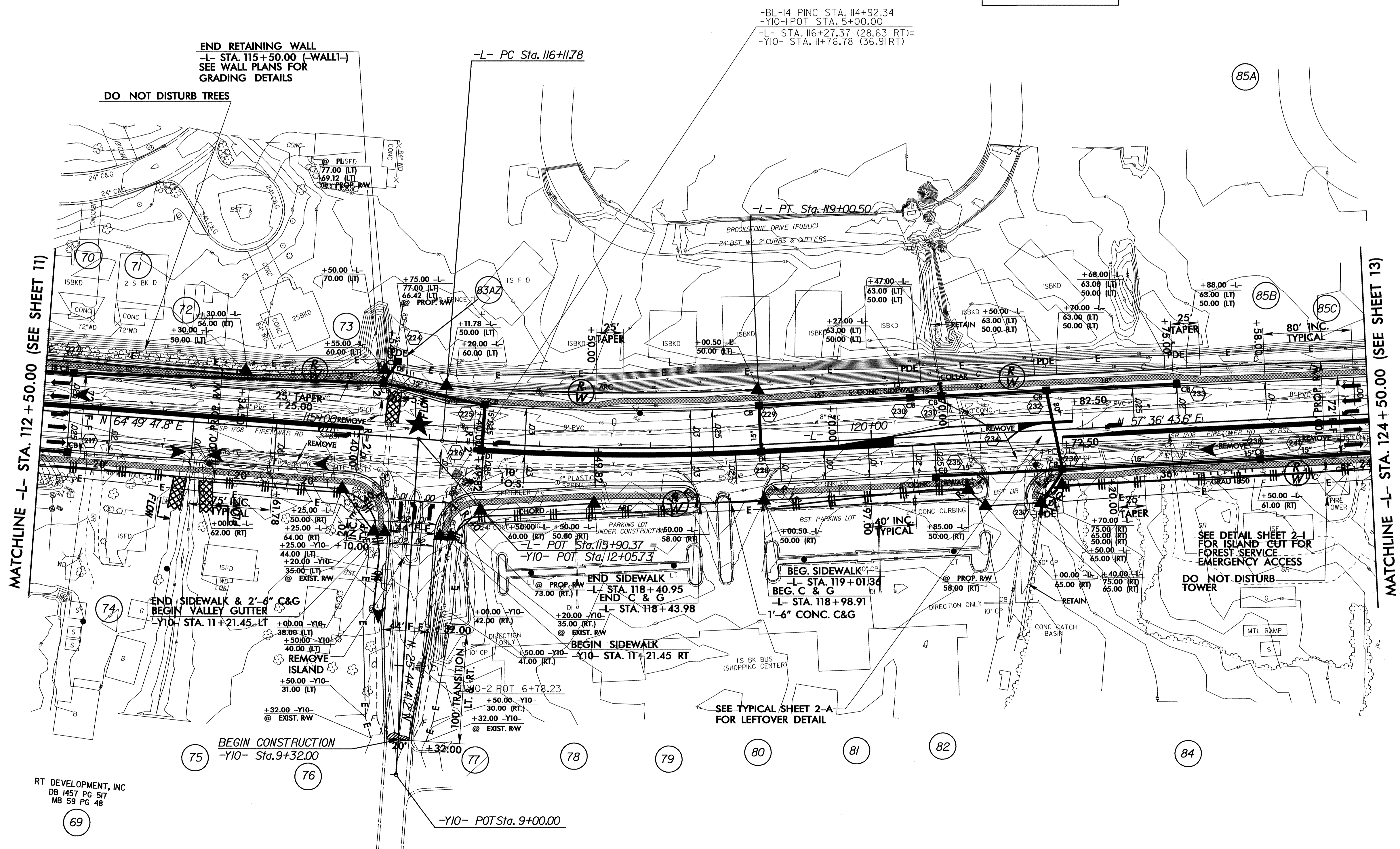
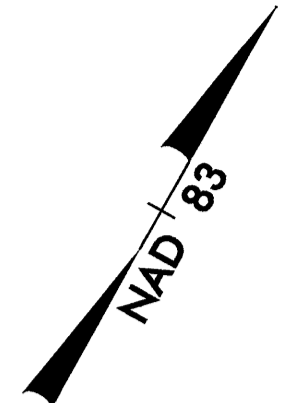
END CONSTRUCTION
-Y9- POT Sta. 11+00.00
TIE TO EXIST. C&G, LT. & RT.

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.

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

-L-
PI Sta 117+56.33
 $\Delta = 7' 13'' 04.2''$ (LT)
 $D = 2' 30'' 00.0''$
 $L = 288.71'$
 $T = 144.55'$
 $R = 2,291.83'$
 $SE = 0.03$



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

69

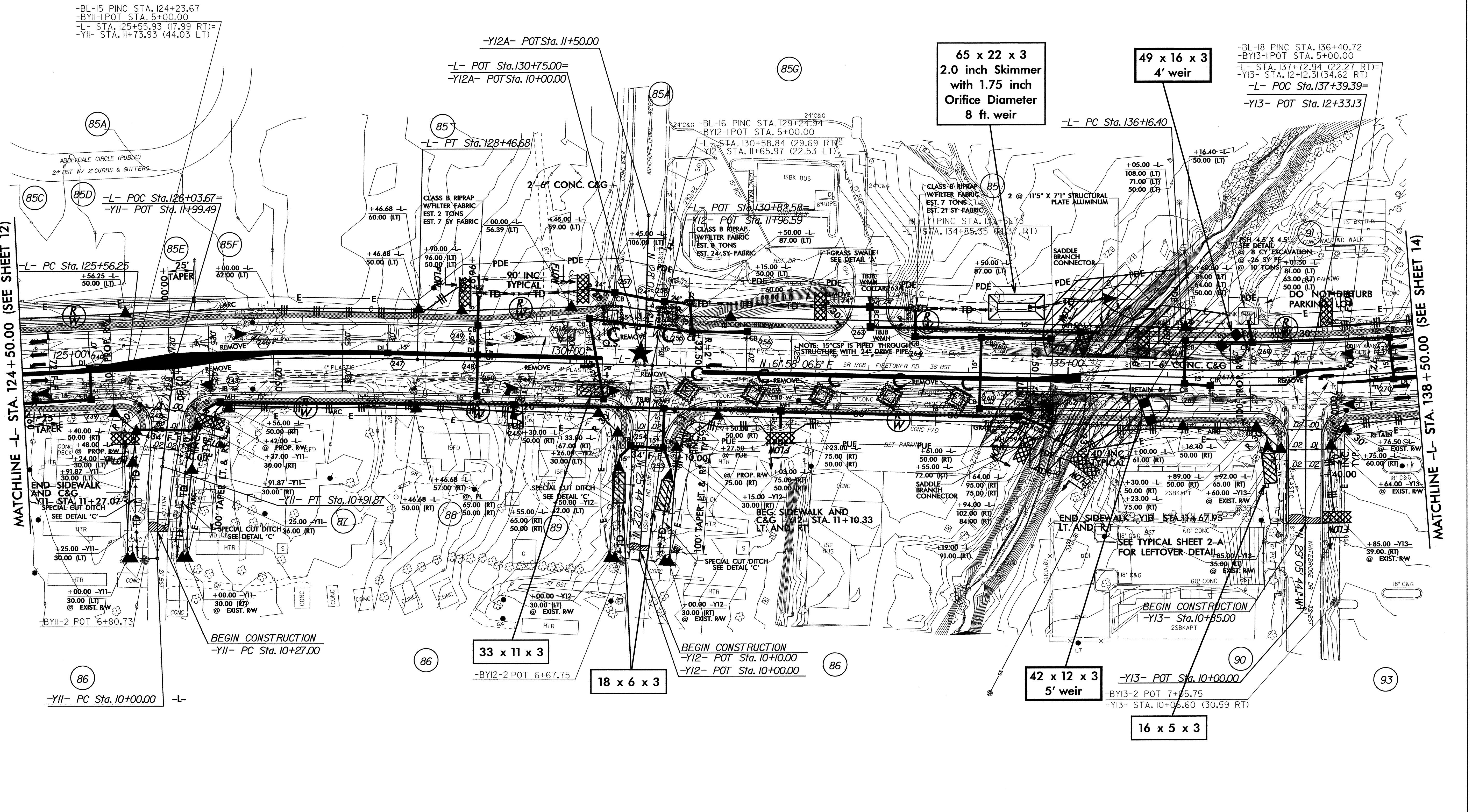
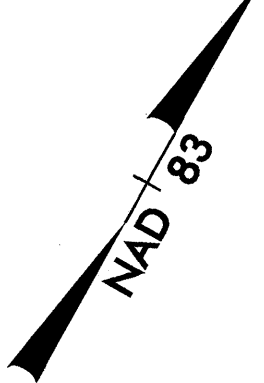
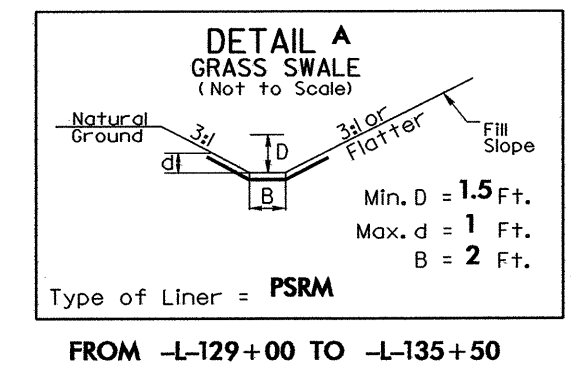
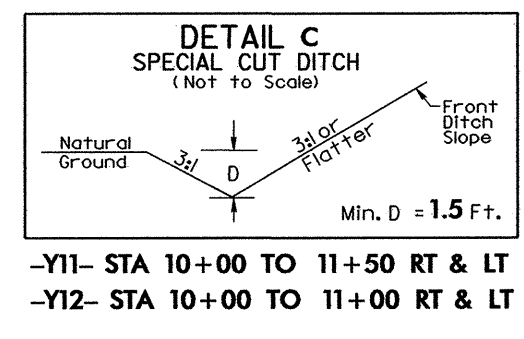
| | |
|----------------------------------|-----------------------------|
| PROJECT REFERENCE NO. U-3613B | SHEET NO. EC-13/CONST.13 |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

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

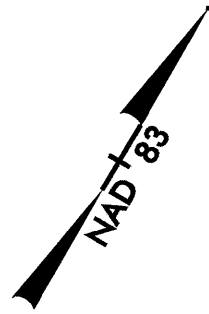


| | |
|---|-------------------------------------|
| PROJECT REFERENCE NO. <i>U-3613B</i> | SHEET NO. <i>EC-13A/CONST.13</i> |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

CULVERT CONSTRUCTION SEQUENCE STA. 135+24 -L-

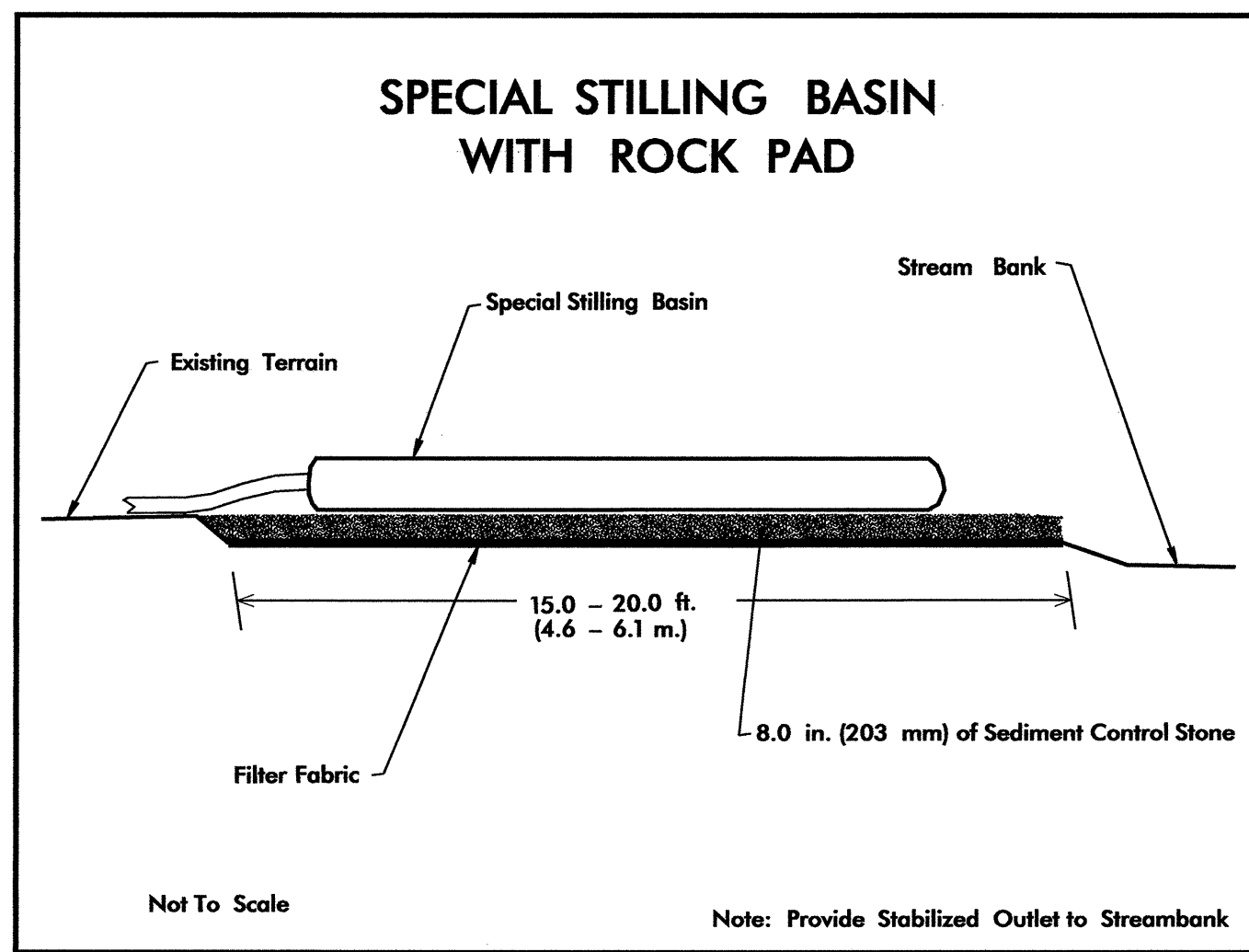
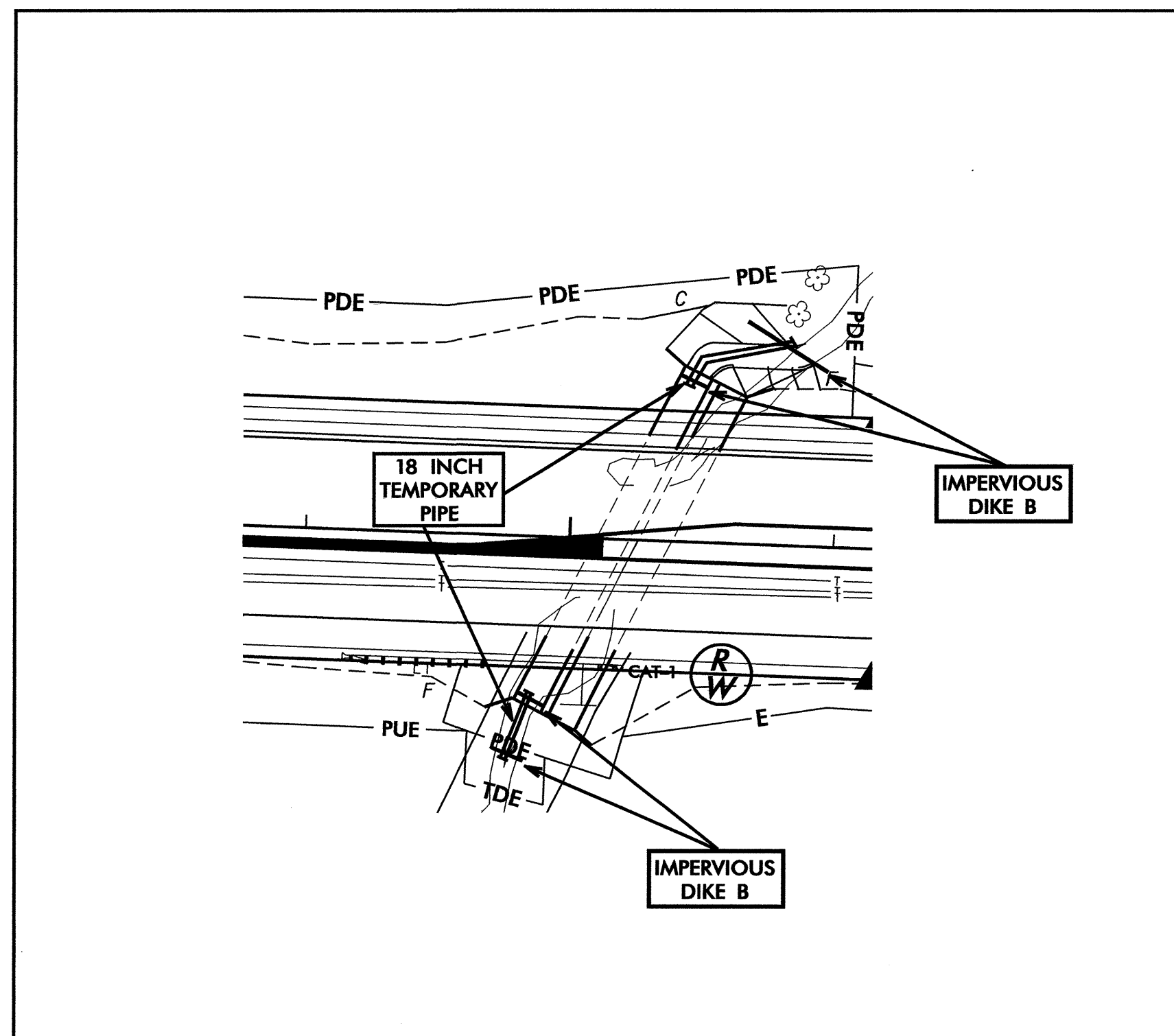
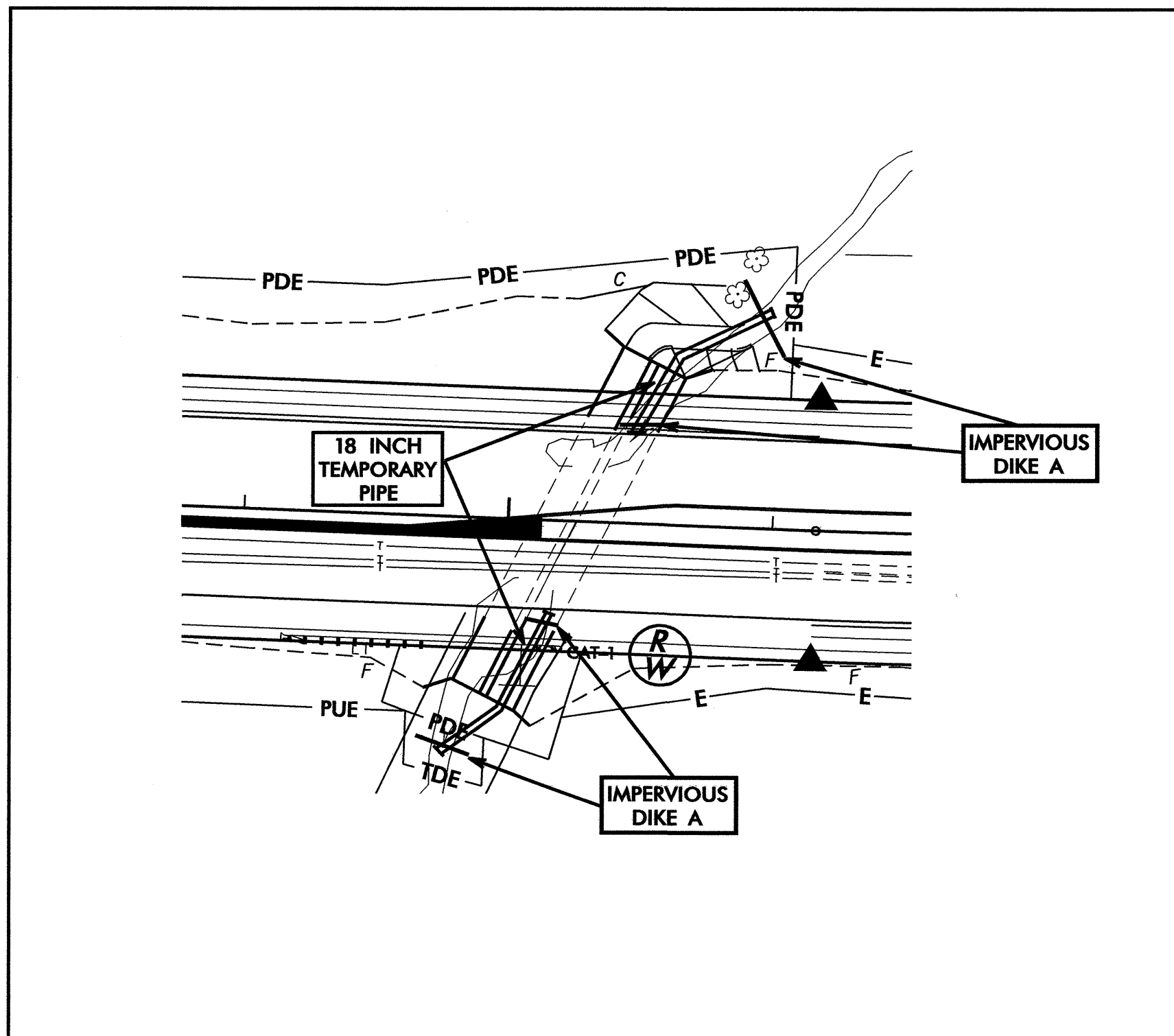
PHASE I

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.



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.

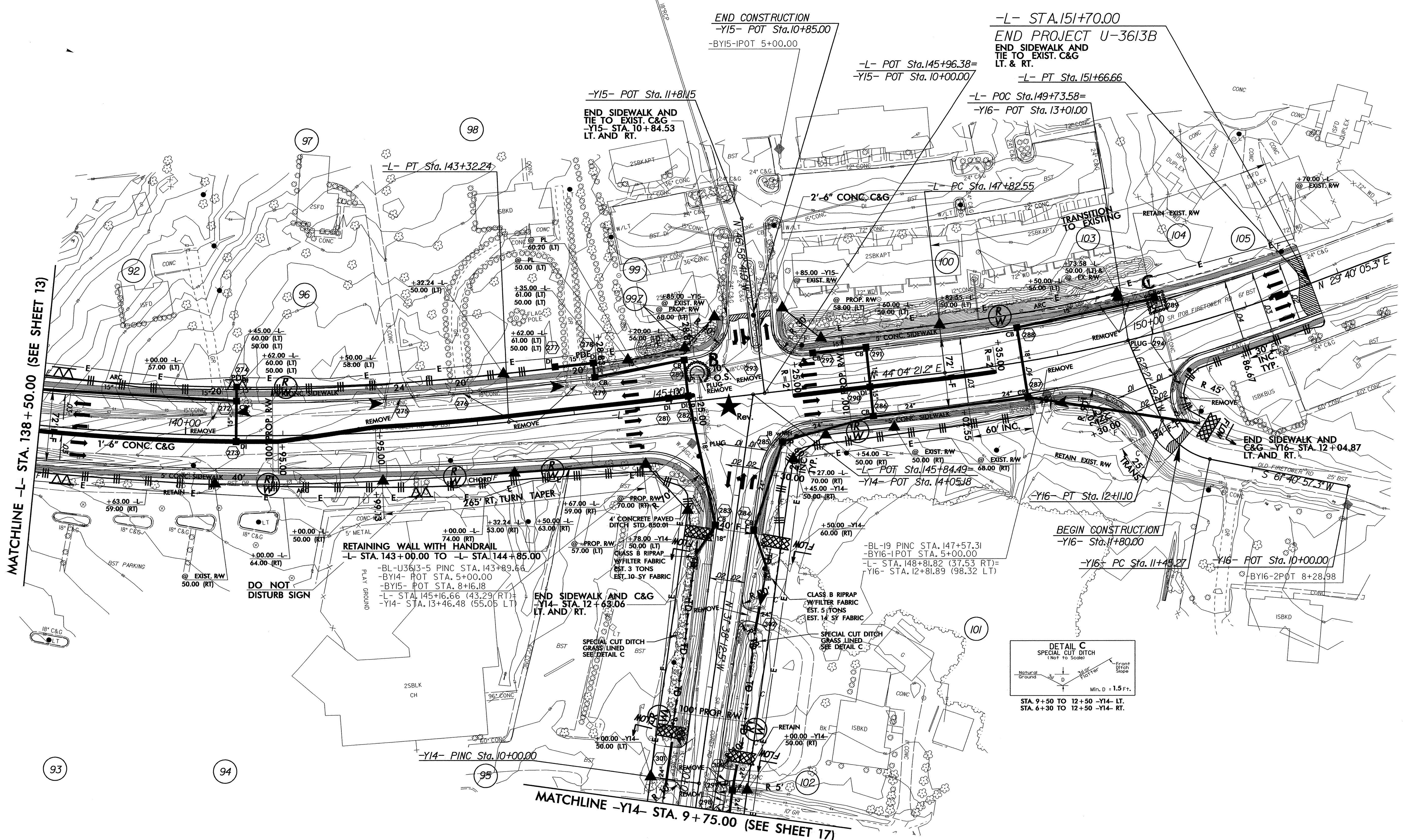
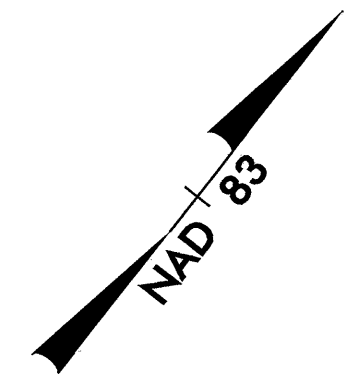


CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 14

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

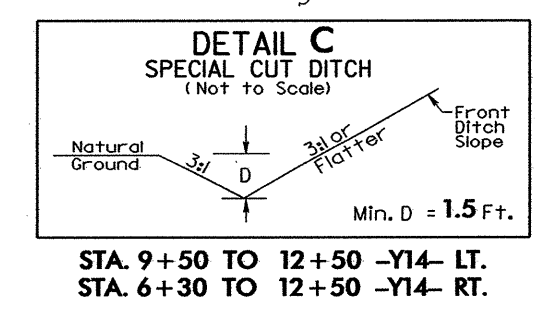
| | |
|----------------------------------|-----------------------------|
| PROJECT REFERENCE NO. U-3613B | SHEET NO. EC-14/CONST.14 |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

| | |
|---|--|
| -L- | -Y16- |
| PI Sta 139+77.26 Δ = 17° 53' 45.4" (LT) D = 2' 30' 00.0" L = 715.84' T = 360.86' SE = 0.03 | PI Sta 149+75.62 Δ = 14° 24' 15.9" (LT) D = 3' 45' 00.0" L = 384.2' T = 193.08' SE = 0.04 |
| | PI Sta 11+81.08 Δ = 55° 57' 13.4" (RT) D = 85' 00' 00.0" L = 65.83' T = 35.81' SE = 0.04 |



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

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

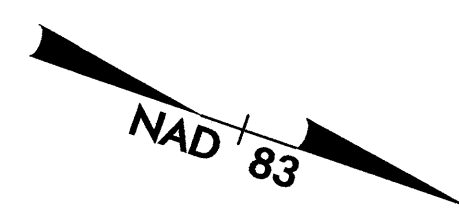
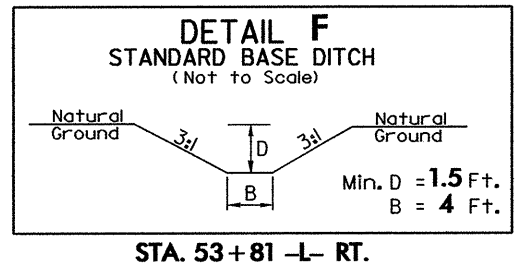


STA. 9 + 50 TO 12 + 50 -Y14- LT.
STA. 6 + 30 TO 12 + 50 -Y14- RT.

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

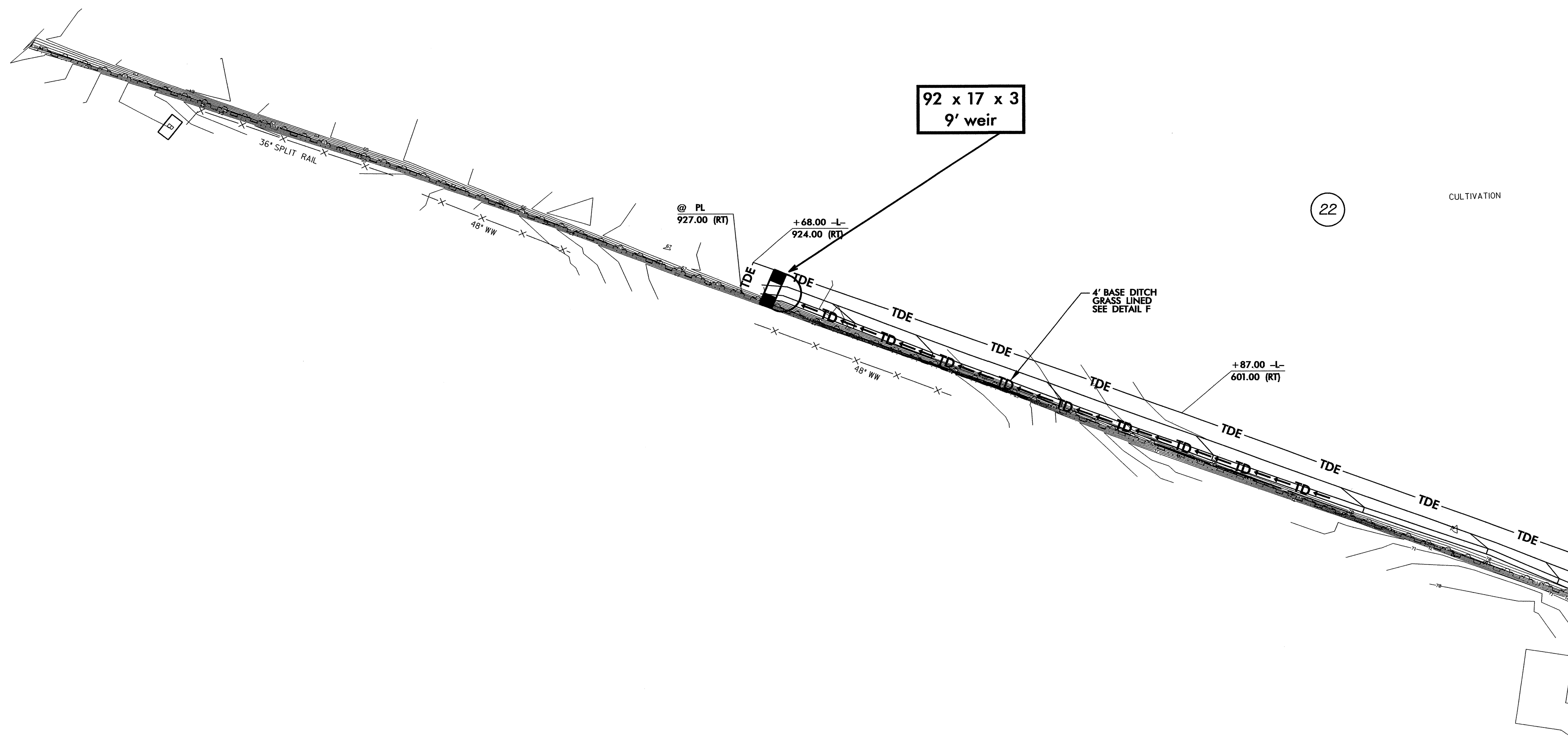
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 16



22

CULTIVATION



22

CULTIVATION

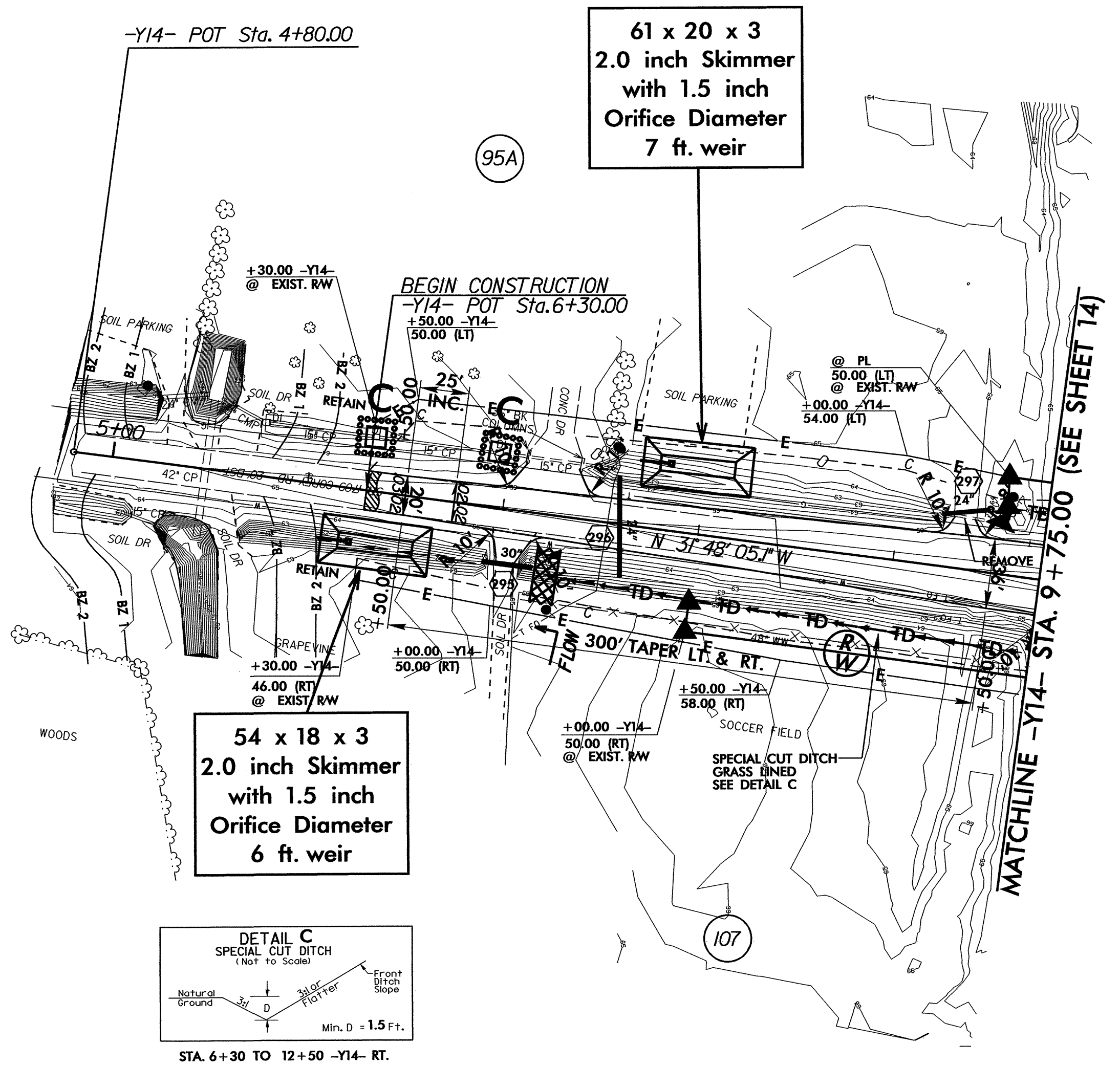
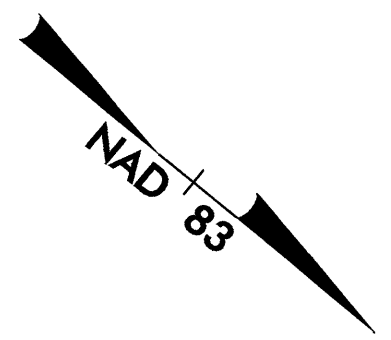
MATCHLINE (SEE SHEET 7)

24

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 17

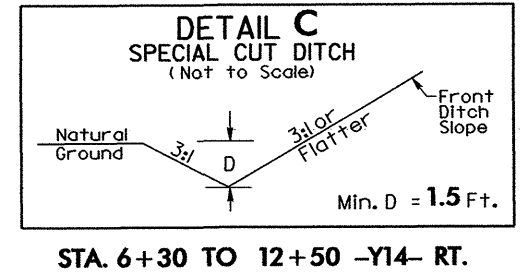
| | |
|----------------------------------|-----------------------------|
| PROJECT REFERENCE NO. U-3613B | SHEET NO. EC-16/CONST.17 |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

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



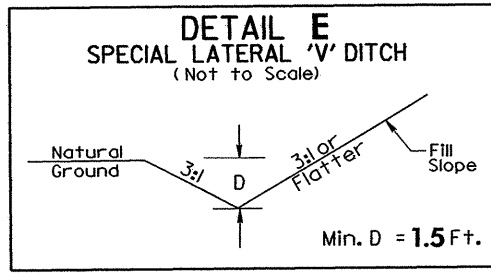
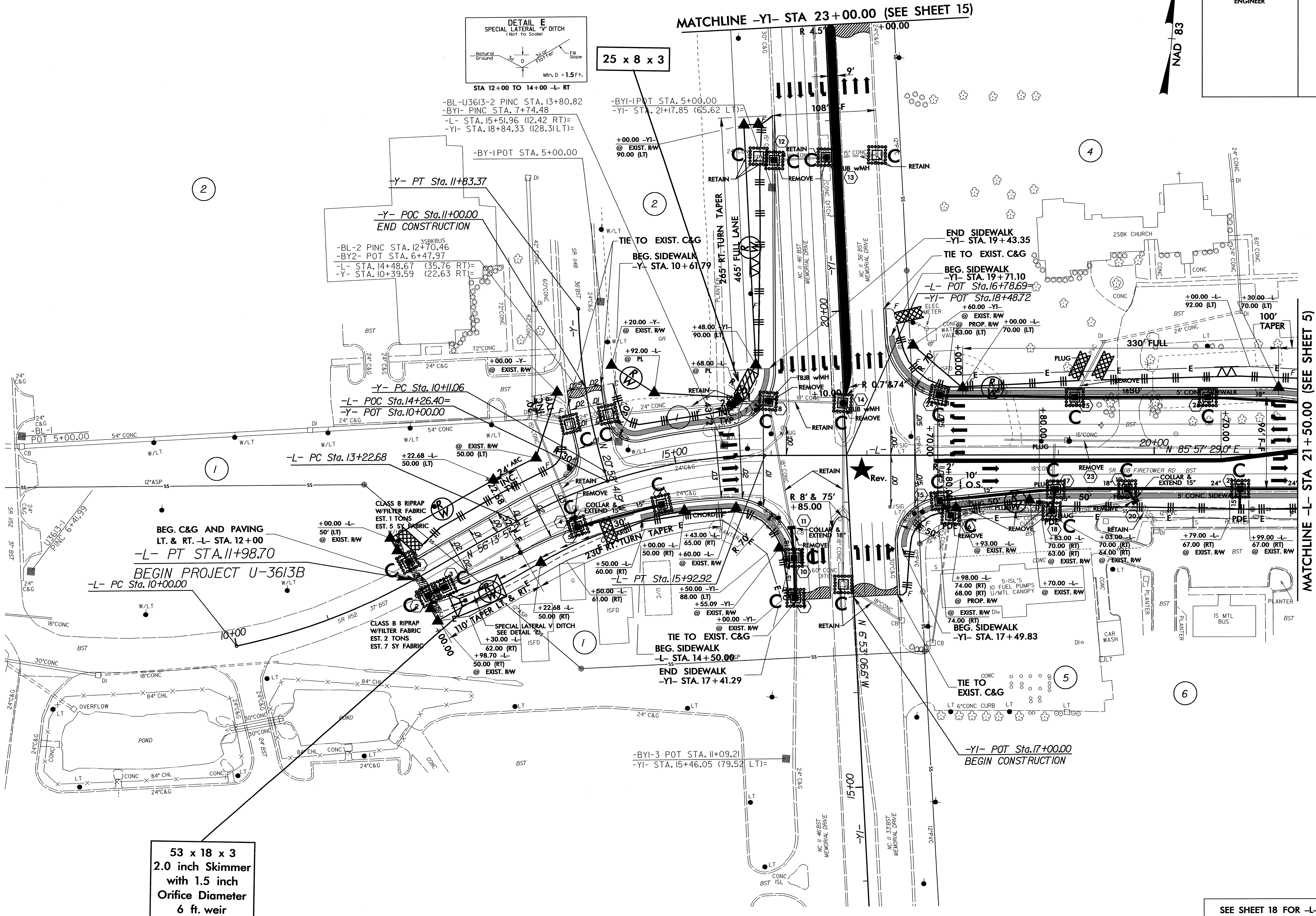
61 x 20 x 3
2.0 inch Skimmer
with 1.5 inch
Orifice Diameter
7 ft. weir

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



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

NAD 83



25 x 8 x 3

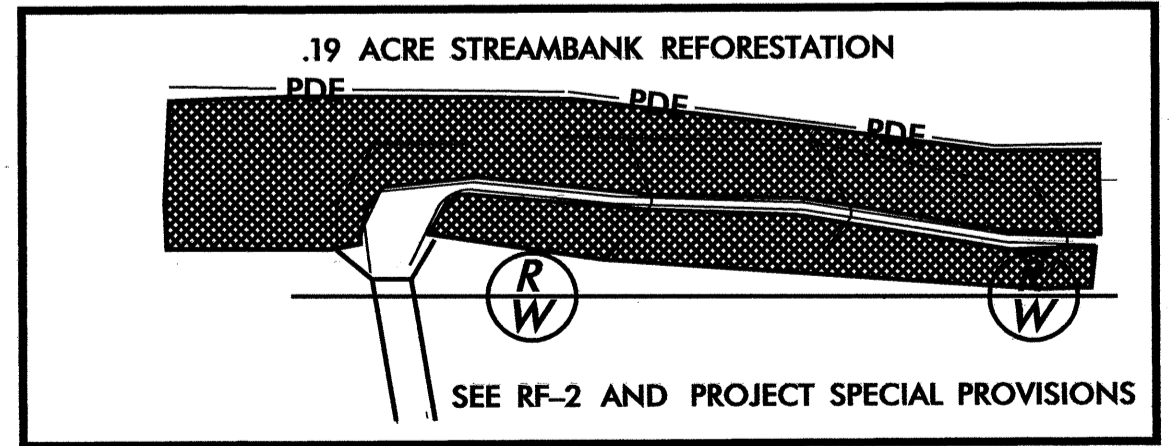
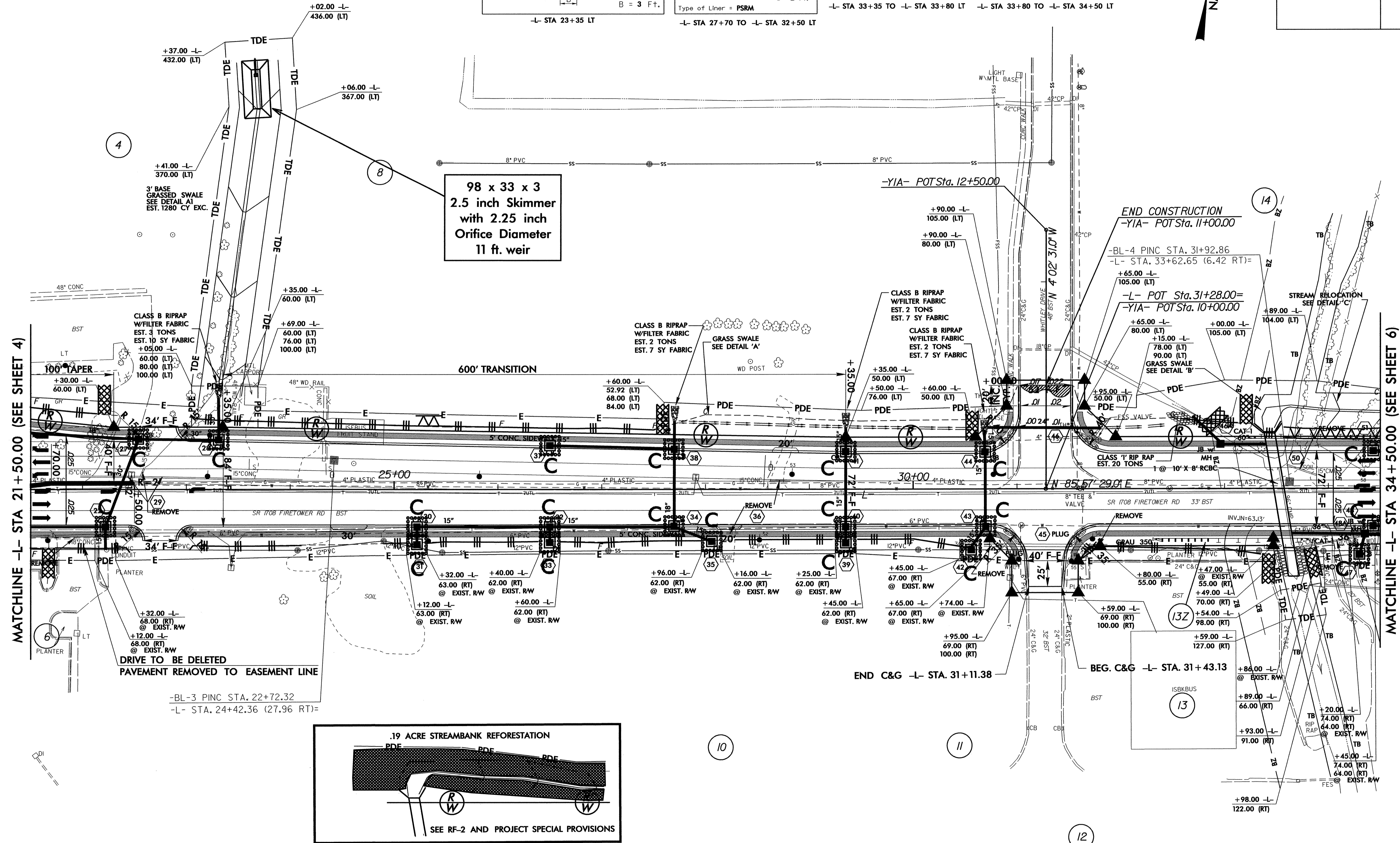
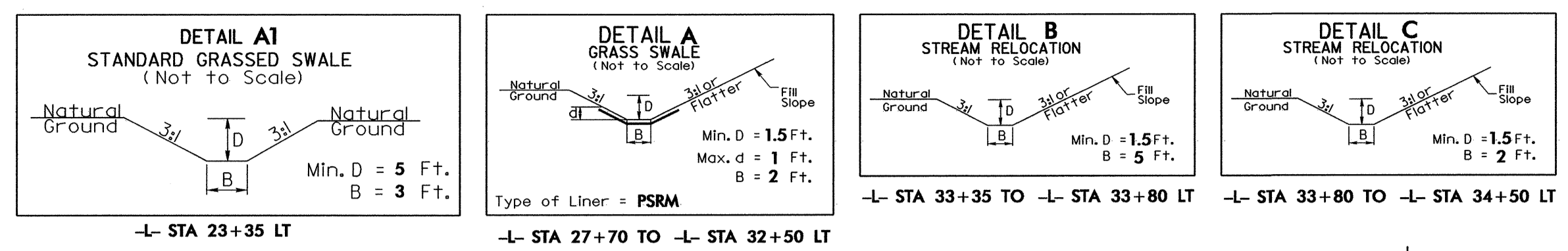
53 x 18 x 3
2.0 inch Skimmer
with 1.5 inch
Orifice Diameter
6 ft. weir

MATCHLINE -L- STA 21+50.00 (SEE SHEET 5)

MATCHLINE -Y- STA 23+00.00 (SEE SHEET 15)

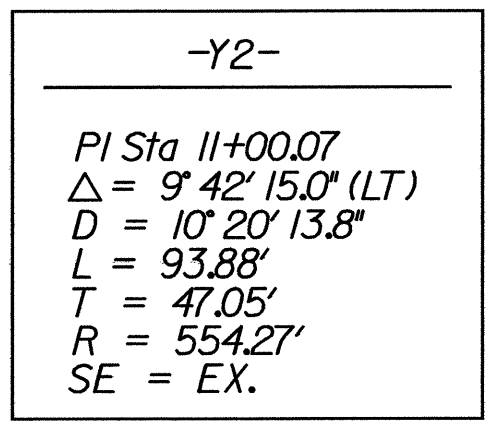
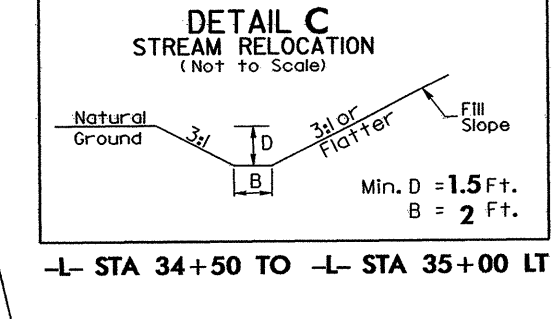
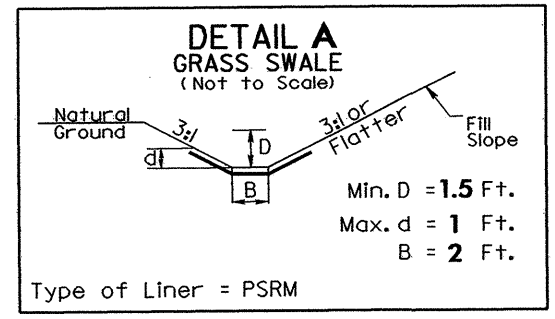
SEE SHEET 18 FOR -L- PROFILE
SEE SHEET 24 FOR -Y- PROFILE
SEE SHEET 24 FOR -Y- PROFILE

★ Rev. REVISED SIGNAL



PAVEMENT REMOVAL
 SEE SHEET 18 FOR -L- PROFILE
 SEE SHEET 24 FOR -YIA- PROFILE
 SEE SHEET C-1 THRU C- FOR CULVERT PLANS

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



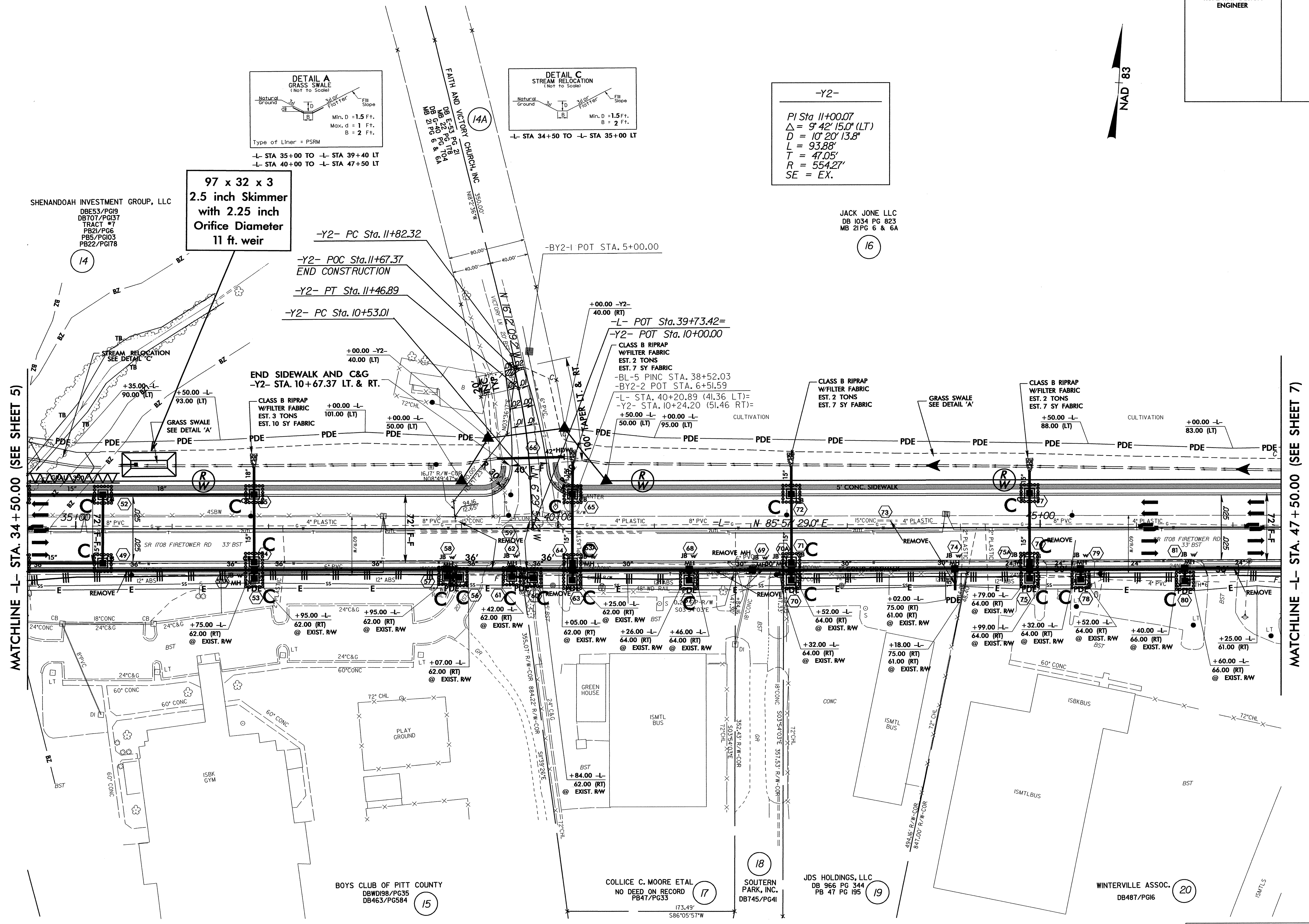
**97 x 32 x 3
2.5 inch Skimmer
with 2.25 inch
Orifice Diameter
11 ft. weir**

SHENANDOAH INVESTMENT GROUP, LLC
DBE53/PG19
DB707/PG37
TRACT #7
PB21/PG6
PB5/PG103
PB22/PG178

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

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

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

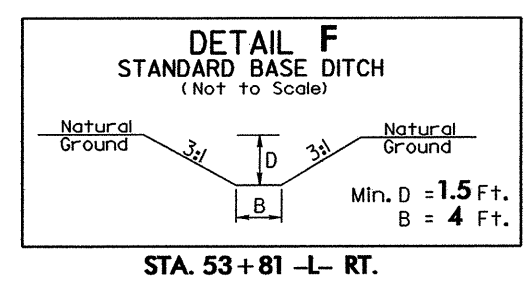
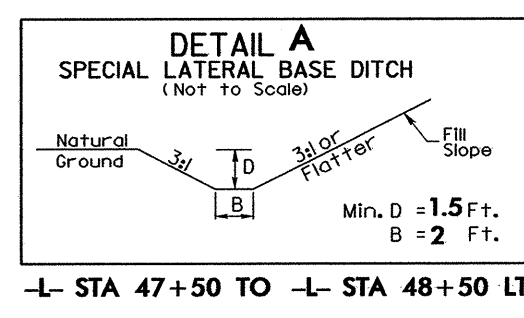
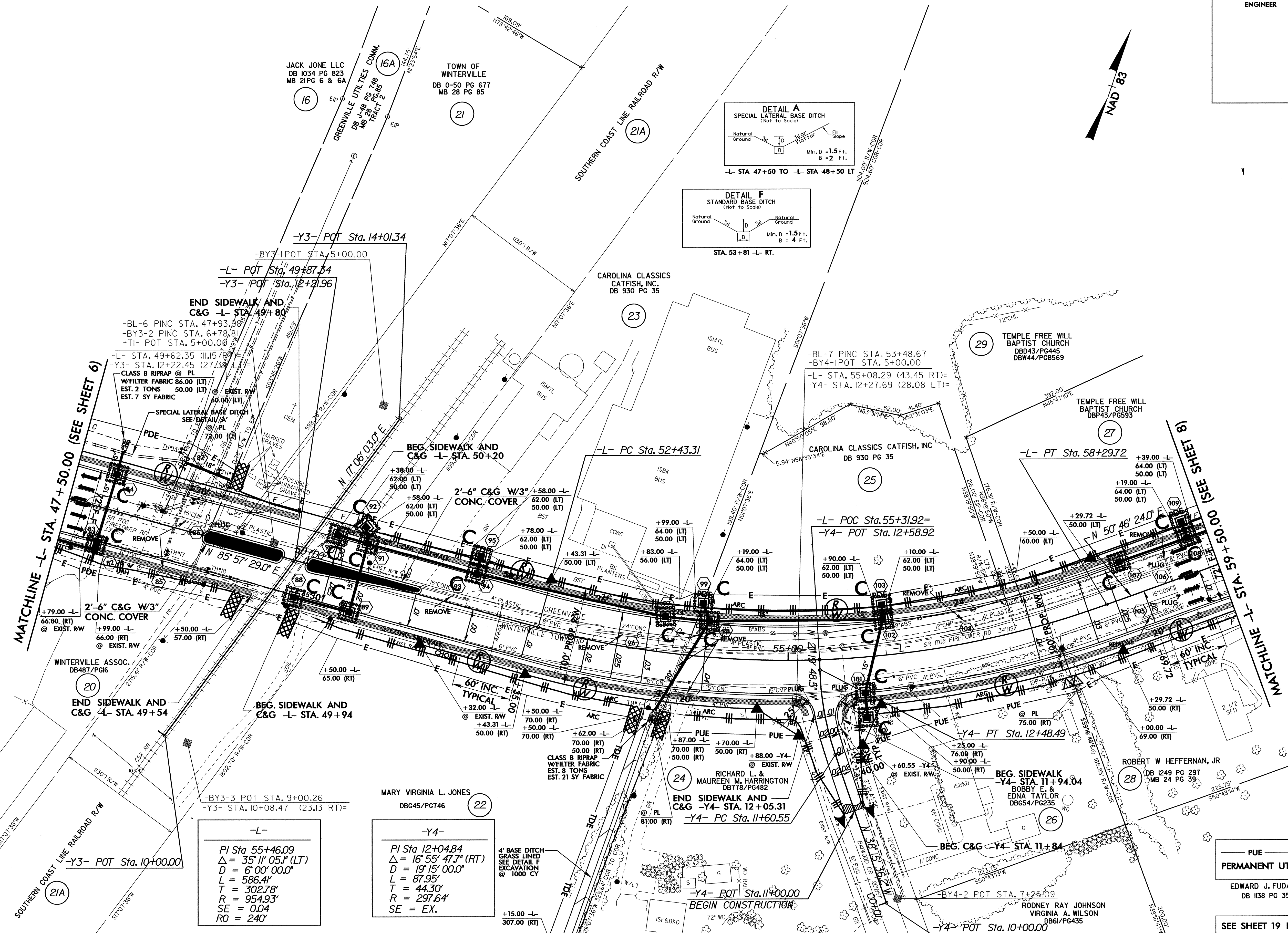
SOUTHERN PARK, INC.
DB745/PG41

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

WINTERVILLE ASSOC.
DB487/PG16

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

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



-L-

| |
|-------------------------------------|
| PI Sta 55+46.09 |
| $\Delta = 35^\circ 11' 05.1''$ (LT) |
| $D = 6^\circ 00' 00.0''$ |
| $L = 586.41'$ |
| $T = 302.78'$ |
| $R = 954.93'$ |
| $SE = 0.04$ |
| $RO = 240'$ |

-Y4-

| |
|-------------------------------------|
| PI Sta 12+04.84 |
| $\Delta = 16^\circ 55' 47.7''$ (RT) |
| $D = 19^\circ 15' 00.0''$ |
| $L = 87.95'$ |
| $T = 44.30'$ |
| $R = 297.64'$ |
| $SE = EX.$ |

4' BASE DITCH
GRASS LINED
SEE DETAIL F
EXCAVATION @
1000 CY

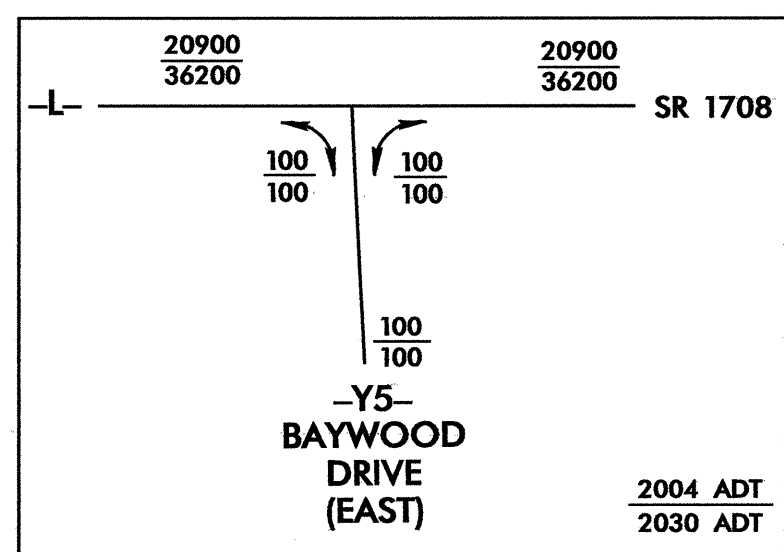
— PUE — PUE —
PERMANENT UTILITY EASEMENT

EDWARD J. FUDALIK
DB 138 PG 356

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

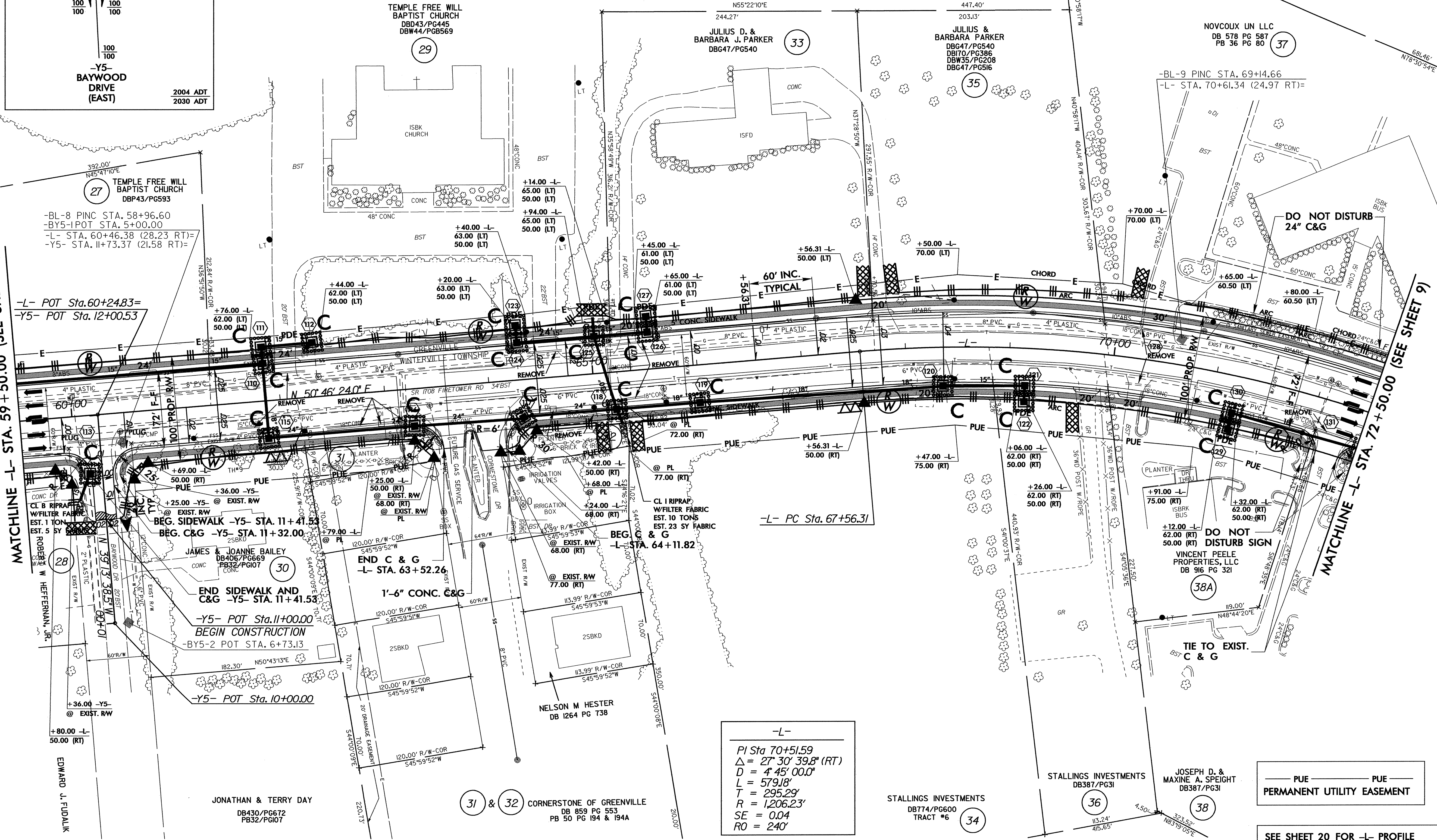
MATCHLINE (SEE SHEET 16)

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



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

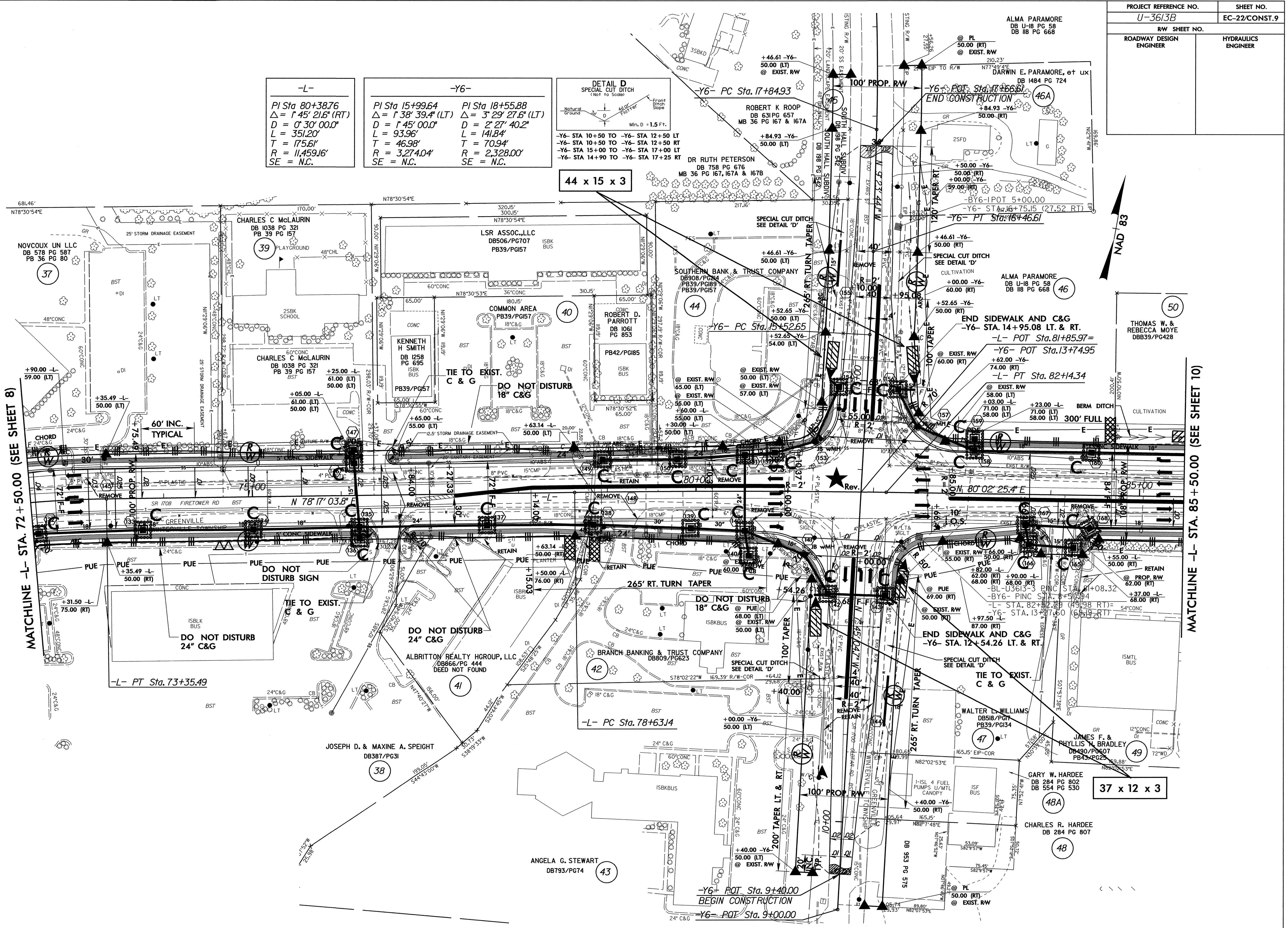
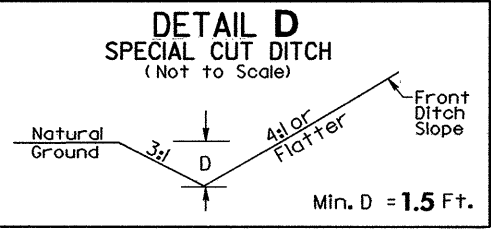
MATCHLINE -L- STA. 72 + 50.00 (SEE SHEET 9)



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|--------------------------------------|
| -L- |
| PI Sta 70+51.59 |
| $\Delta = 27^{\circ} 30' 39.8" (RT)$ |
| $D = 4^{\circ} 45' 00.0"$ |
| $L = 579.18'$ |
| $T = 295.29'$ |
| $R = 1,206.23'$ |
| $SE = 0.04$ |
| $RO = 240'$ |

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

| -L- | -Y6- | -Y6- |
|------------------------------|------------------------------|------------------------------|
| PI Sta 80+38.76 | PI Sta 15+99.64 | PI Sta 18+55.88 |
| $\Delta = 1' 45" 21.6" (RT)$ | $\Delta = 1' 38" 39.4" (LT)$ | $\Delta = 3' 29" 27.6" (LT)$ |
| $D = 0' 30" 00.0"$ | $D = 1' 45" 00.0"$ | $D = 2' 27" 40.2"$ |
| $L = 351.20'$ | $L = 93.96'$ | $L = 141.84'$ |
| $T = 175.61'$ | $T = 46.98'$ | $T = 70.94'$ |
| $R = 11,459.16'$ | $R = 3,274.04'$ | $R = 2,328.00'$ |
| $SE = N.C.$ | $SE = N.C.$ | $SE = N.C.$ |



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

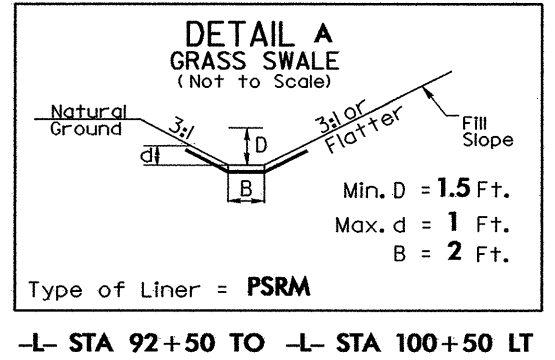
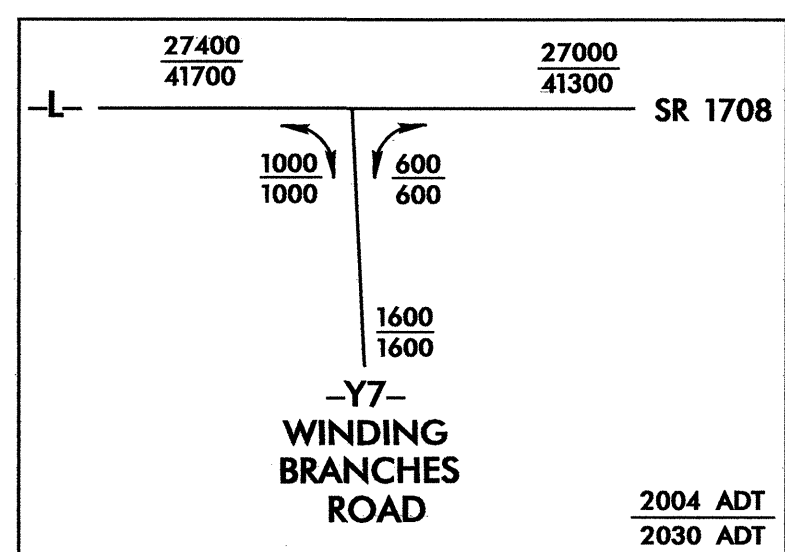
MATCHLINE -L- STA. 85 + 50.00 (SEE SHEET 10)

NAD 83

37 x 12 x 3

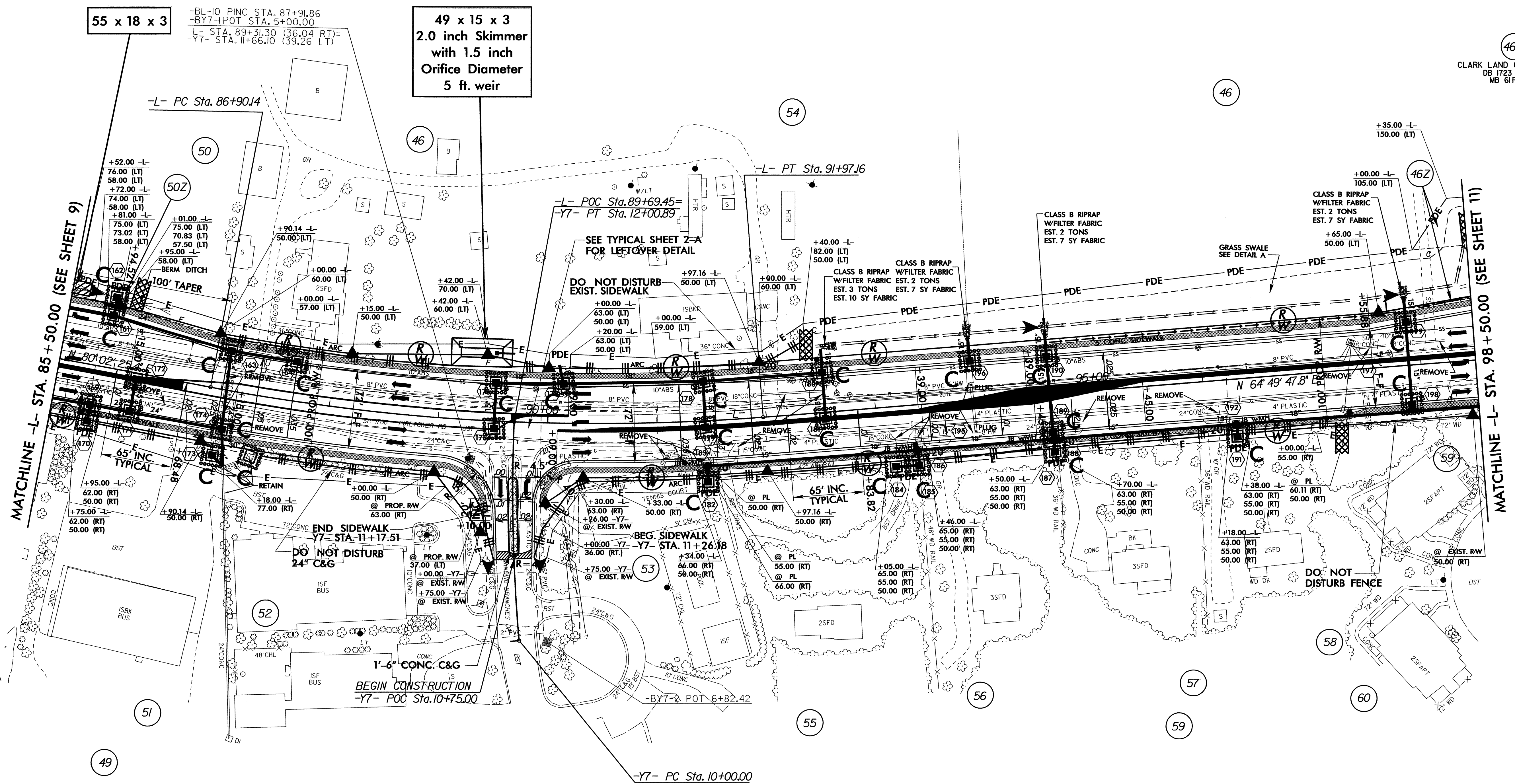
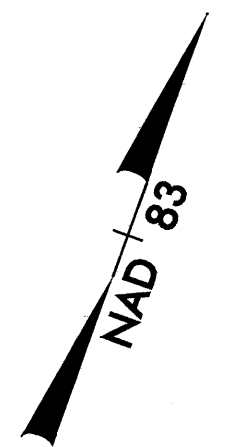
44 x 15 x 3

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



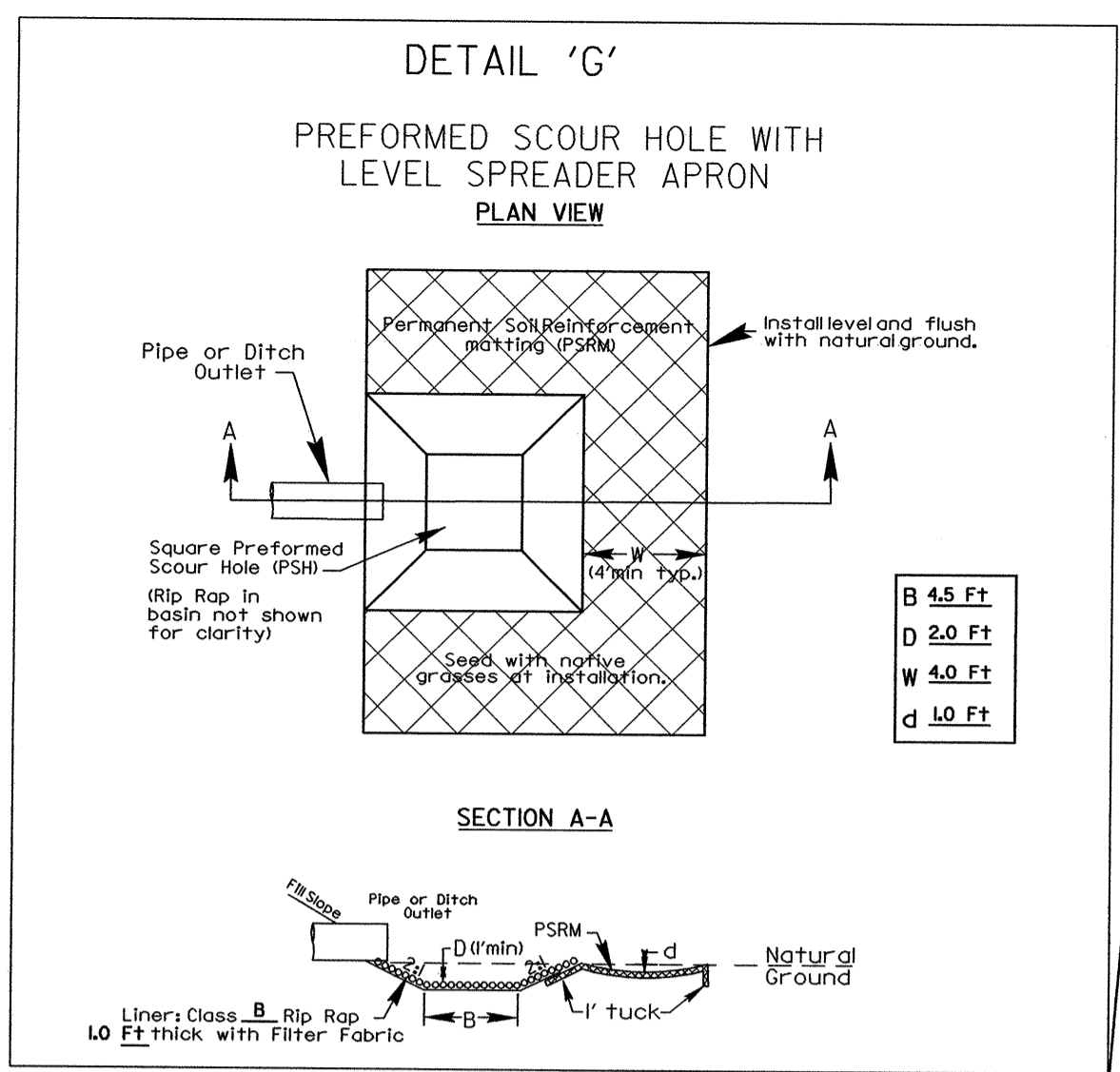
-L-
 PI Sta 89+45.15
 $\Delta = 15' 12' 37.6''$ (LT)
 $D = 3' 00' 00.0''$
 $L = 507.01'$
 $T = 255.01'$
 $R = 1,909.86'$
 $SE = 0.035$

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

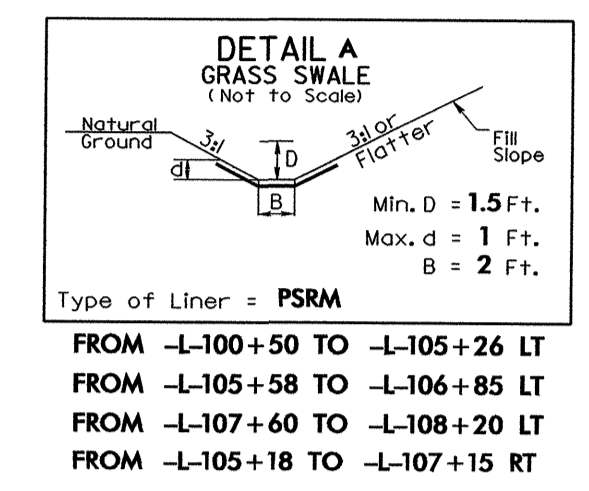


CLARK LAND COMPANY, LLC
 DB 1723 PG 001
 MB 61 PG 99

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



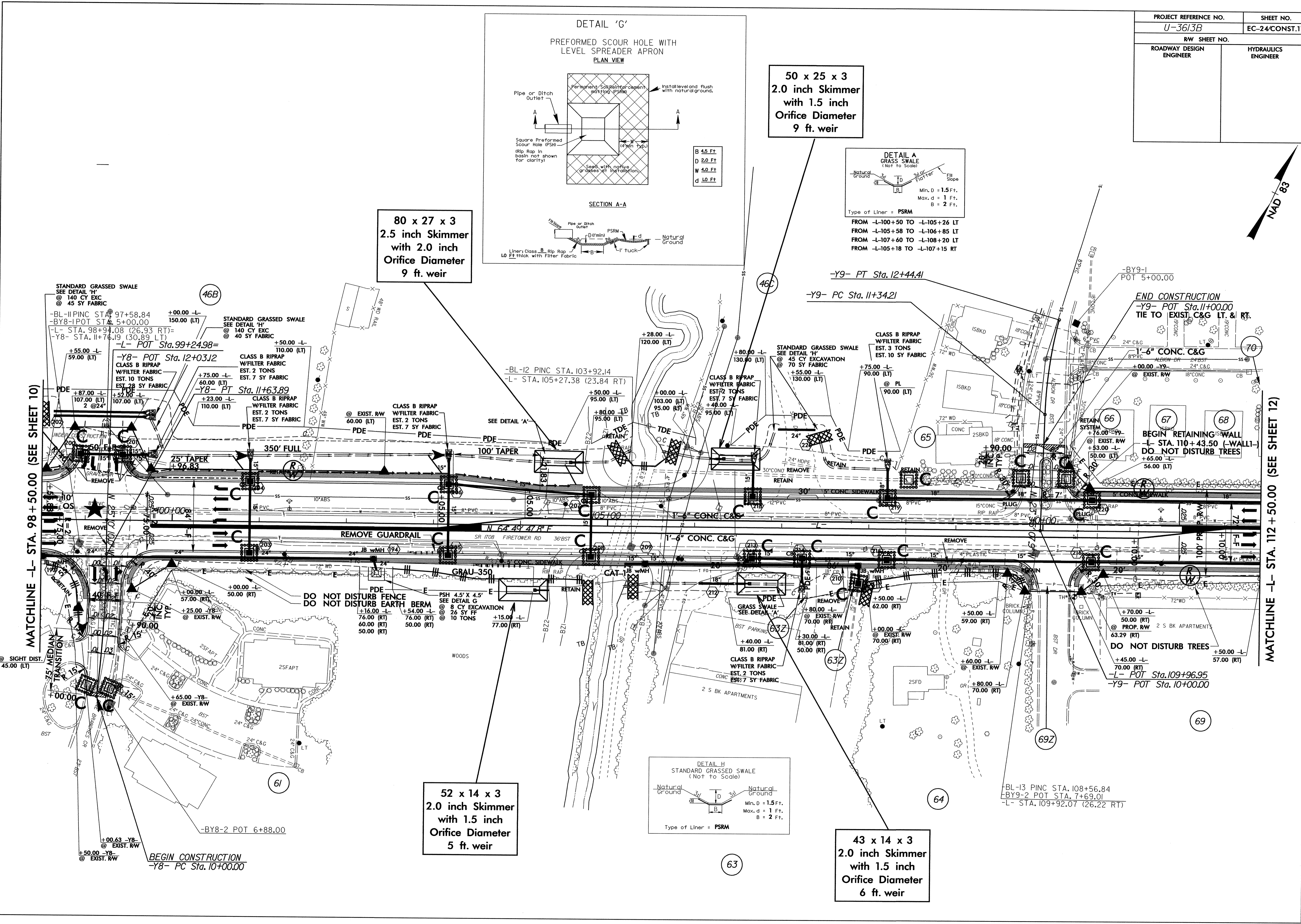
50 x 25 x 3
2.0 inch Skimmer
with 1.5 inch
Orifice Diameter
9 ft. weir



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

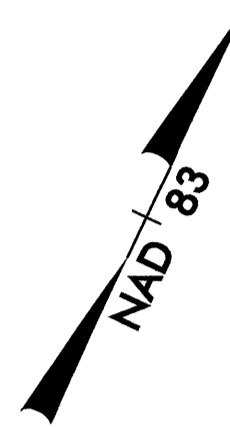
52 x 14 x 3
2.0 inch Skimmer
with 1.5 inch
Orifice Diameter
5 ft. weir

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

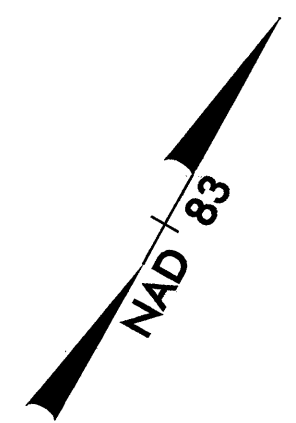


MATCHLINE -L- STA. 98 + 50.00 (SEE SHEET 10)

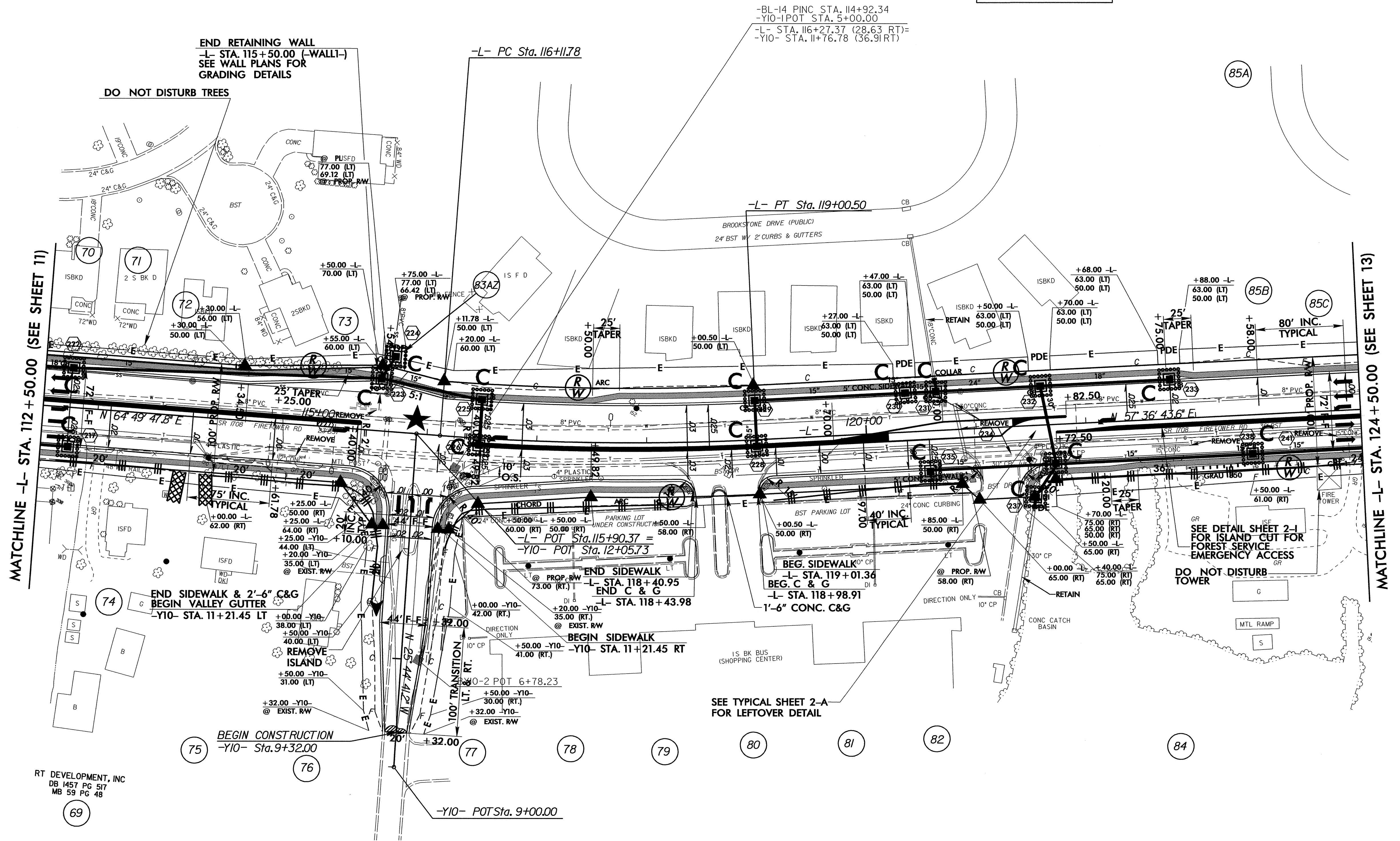
MATCHLINE -L- STA. 112 + 50.00 (SEE SHEET 12)



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



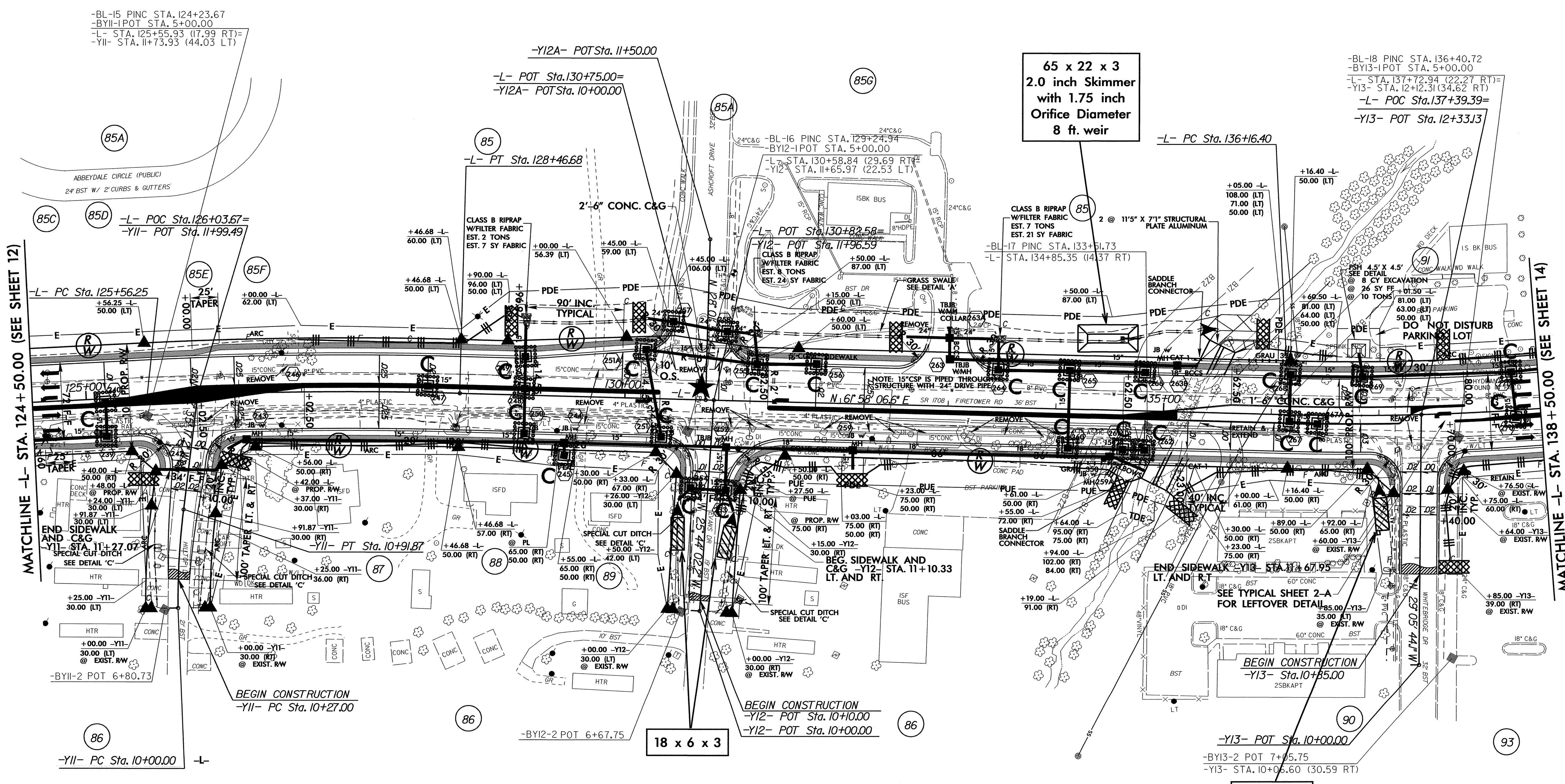
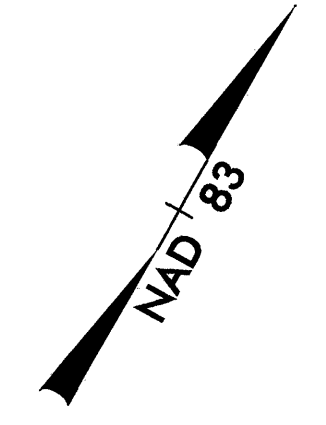
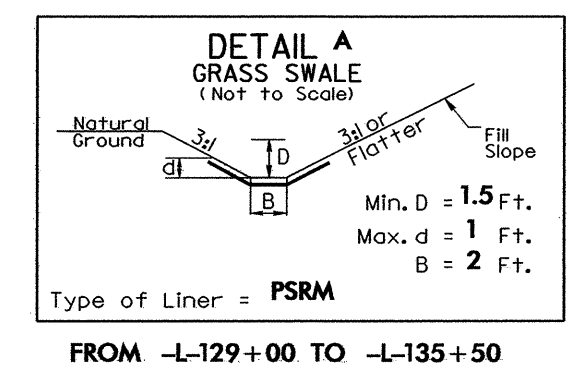
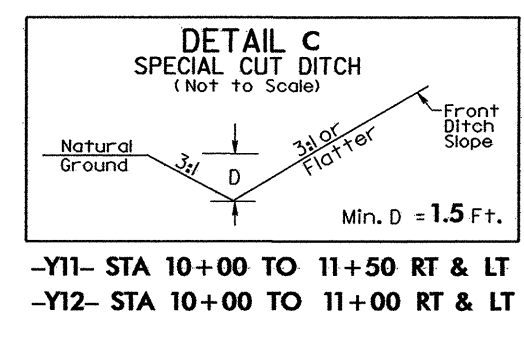
-L-
 PI Sta 117+56.33
 $\Delta = 7'13''04.2''$ (LT)
 $D = 2'30''00.0''$
 $L = 288.71'$
 $T = 144.55'$
 $R = 2,291.83'$
 $SE = 0.03$



7/2/99

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

| -YII- | -L- | -L- |
|------------------------------|------------------------------|-------------------------------|
| PI Sta 10+46.00 | PI Sta 127+01.53 | PI Sta 139+77.26 |
| $\Delta = 7' 34" 44.2" (RT)$ | $\Delta = 4' 21" 23.0" (RT)$ | $\Delta = 17' 53" 45.4" (LT)$ |
| $D = 8' 15" 00.0"$ | $D = 1' 30" 00.0"$ | $D = 2' 30" 00.0"$ |
| $L = 91.87'$ | $L = 290.43'$ | $L = 715.84'$ |
| $T = 46.00'$ | $T = 145.28'$ | $T = 360.86'$ |
| $R = 694.49'$ | $R = 3,819.72'$ | $R = 2,291.83'$ |
| $SE = 0.033$ | $SE = 0.025$ | $SE = 0.03$ |



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

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

-BL-15 PINC STA. 124+23.67
 -BYII-IPOT STA. 5+00.00
 -L- STA. 125+55.93 (17.99 RT)=
 -YII- STA. 11+73.93 (44.03 LT)

-BL-18 PINC STA. 136+40.72
 -BY13-IPOT 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

18 x 6 x 3

16 x 5 x 3

-YII- PC Sta. 10+00.00

-Y13- POT Sta. 10+00.00
 -BY13-2 POT 7+05.75
 -Y13- STA. 10+06.60 (30.59 RT)

BEG. CONSTRUCTION
 -Y12- POT Sta. 10+100.00
 -Y12- POT Sta. 10+00.00

BEG. CONSTRUCTION
 -YII- PC Sta. 10+27.00

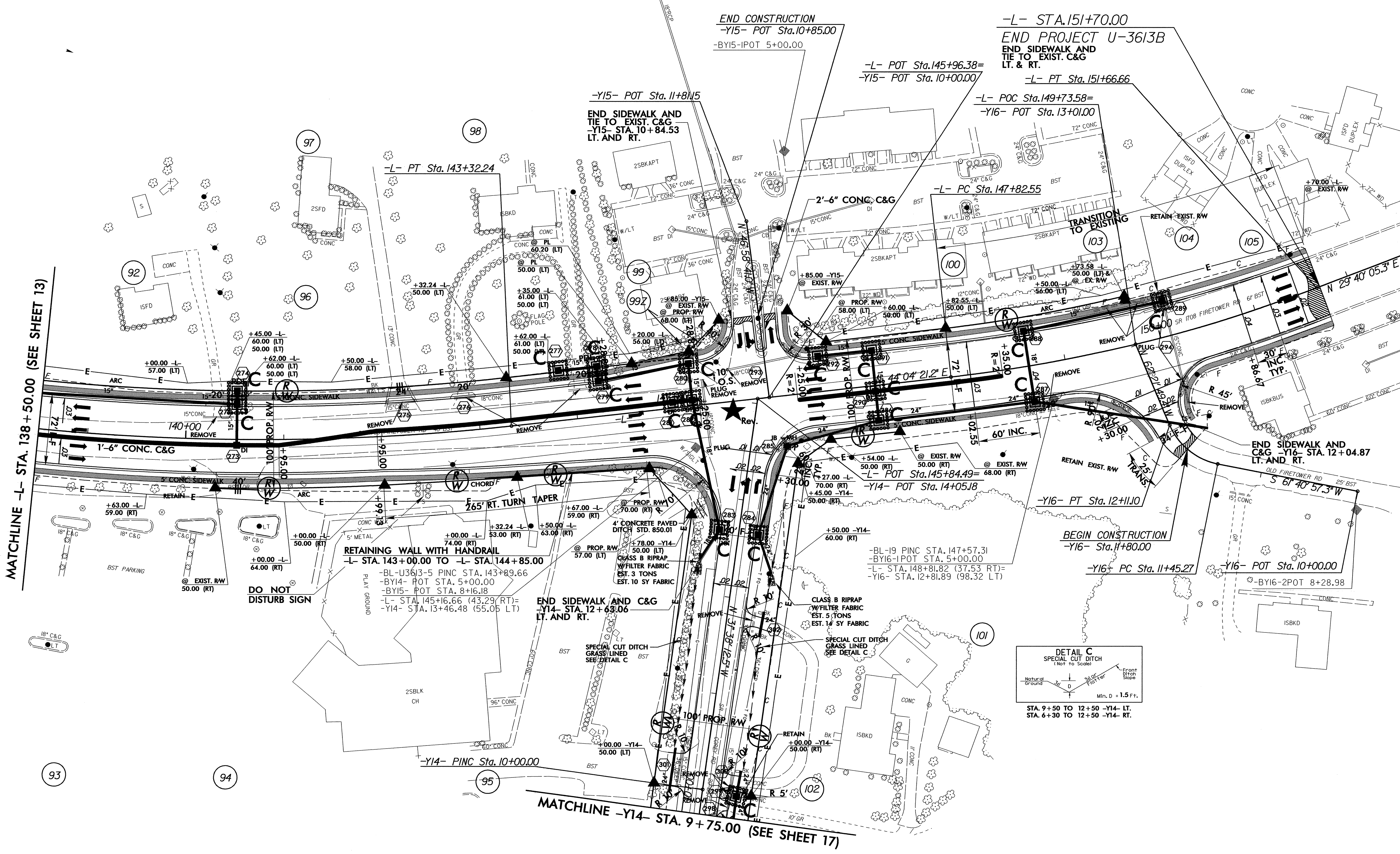
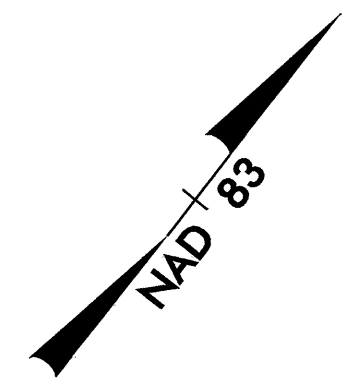
BEGIN CONSTRUCTION
 -Y13- Sta. 10+85.00

NOTE: 15" CSP IS PIPED THROUGH
 STRUCTURE WITH 24" DRIVE PIPE

DO NOT DISTURB
 PARKING LOT

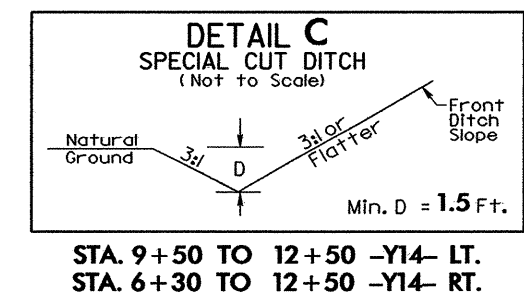
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|-------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| U-3613B | EC-27/CONST.14 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

| -L- | | -Y16- |
|--------------------------------------|--------------------------------------|--------------------------------------|
| PI Sta 139+77.26 | PI Sta 149+75.62 | PI Sta 11+81.08 |
| $\Delta = 17^{\circ} 53' 45.4" (LT)$ | $\Delta = 14^{\circ} 24' 15.9" (LT)$ | $\Delta = 55^{\circ} 57' 13.4" (RT)$ |
| $D = 2^{\circ} 30' 00.0"$ | $D = 3^{\circ} 45' 00.0"$ | $D = 85^{\circ} 00' 00.0"$ |
| $L = 715.84'$ | $L = 384.2'$ | $L = 65.83'$ |
| $T = 360.86'$ | $T = 193.08'$ | $T = 35.81'$ |
| $R = 2,291.83'$ | $R = 1,527.89'$ | $R = 67.4'$ |
| $SE = 0.03$ | $SE = 0.04$ | $SE = 0.04$ |



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

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



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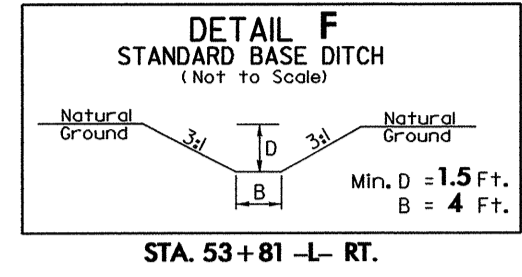
197

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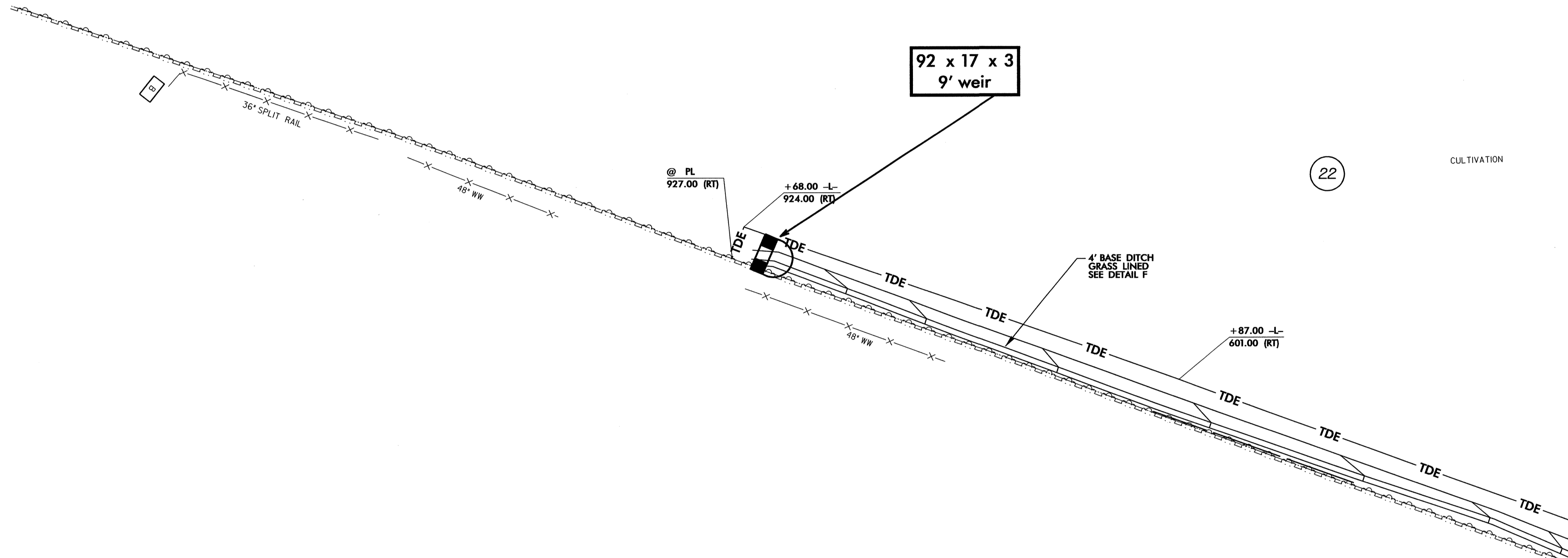
200

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



CULTIVATION

22



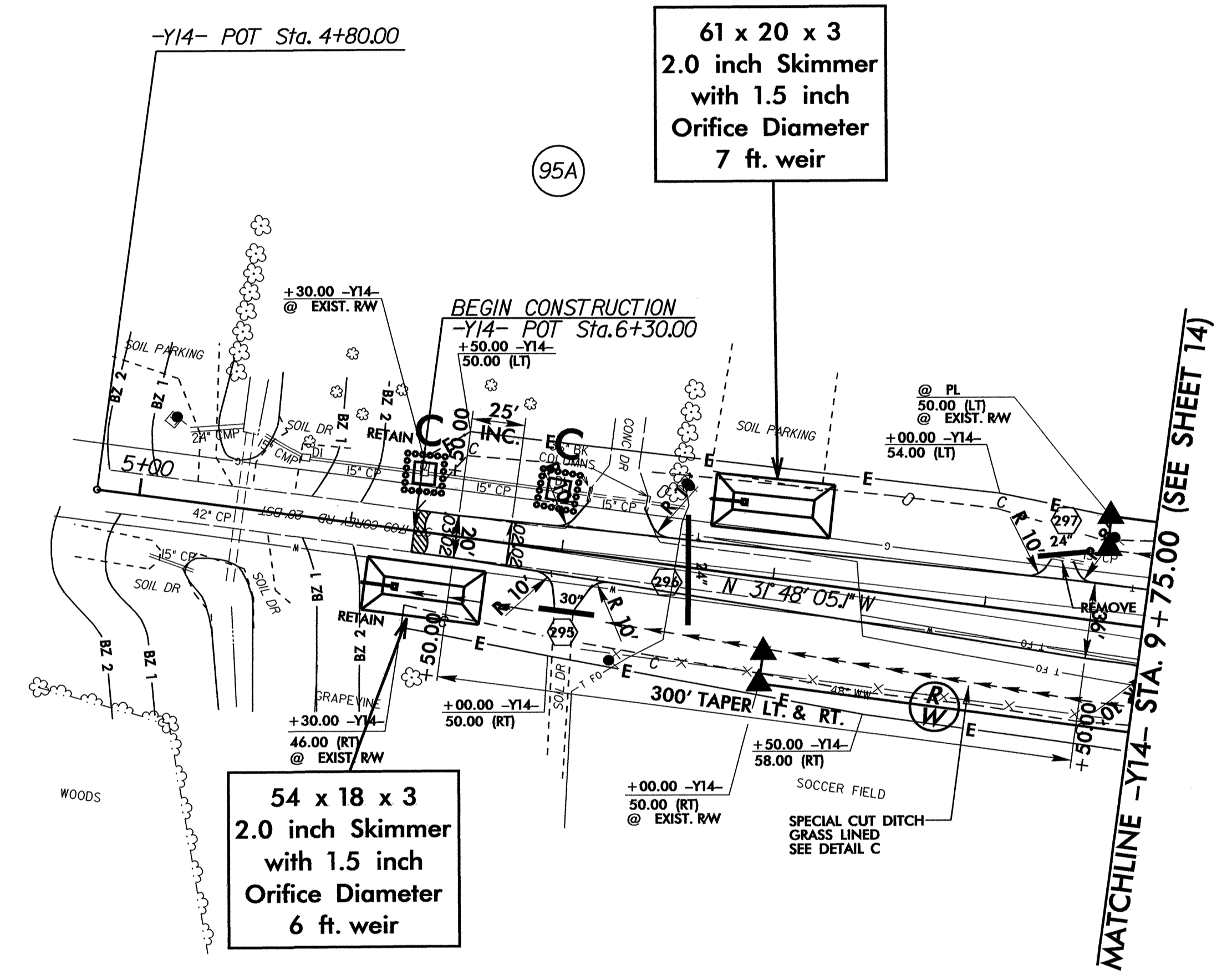
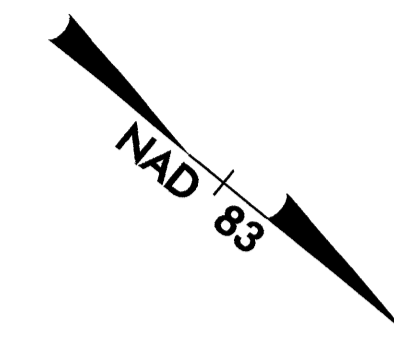
CULTIVATION

22

MATCHLINE (SEE SHEET 7)

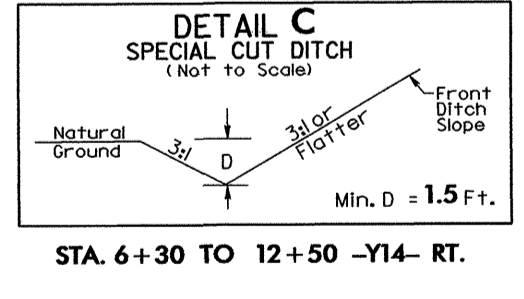
24

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



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

**61 x 20 x 3
2.0 inch Skimmer
with 1.5 inch
Orifice Diameter
7 ft. weir**



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

107