

TIP PROJECT: U-3300B

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

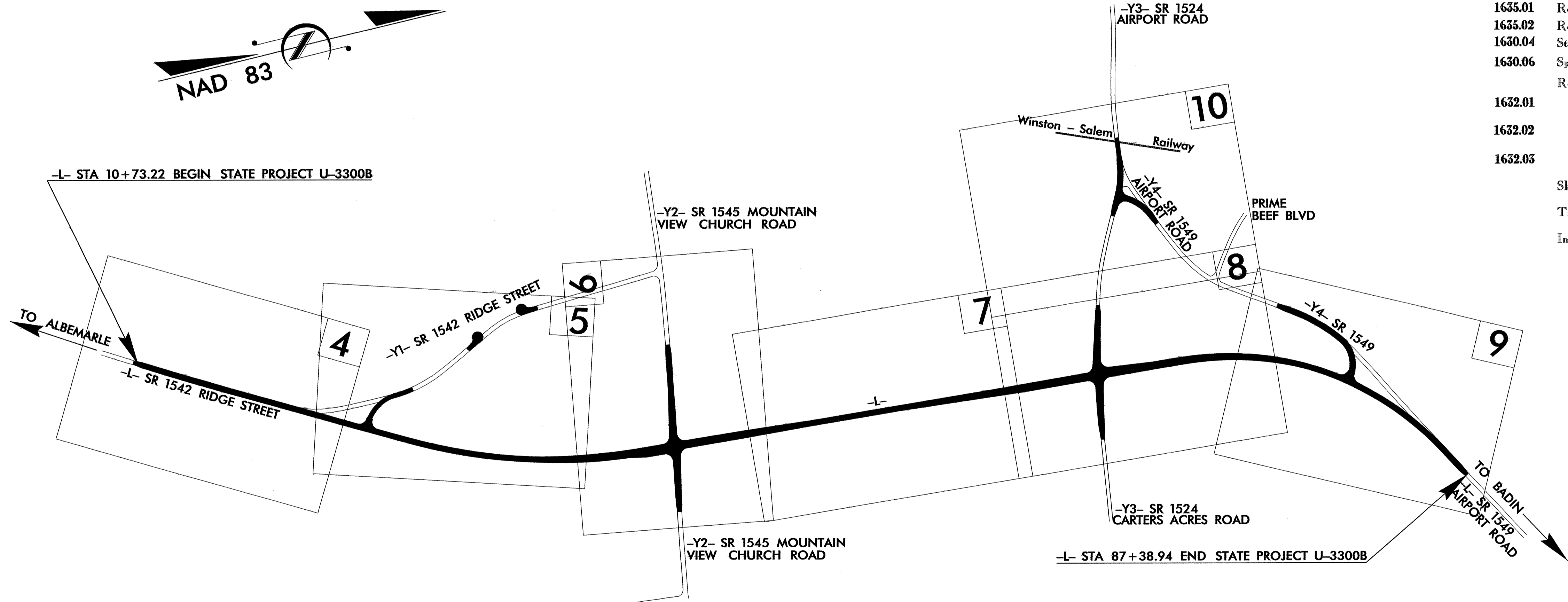
**LOCATION: ALBEMARLE - SR 1542 (RIDGE STREET EXTENSION)
 FROM EXISTING RIDGE STREET TO AIRPORT ROAD
 TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND CULVERTS**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-3300B	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	▲▲▲▲▲
1622.01	Temporary Berms and Slope Drains	— T —
1630.01	Riser Basin	⊙
	Silt Basin Type B	▨
1633.01	Temporary Rock Silt Check Type-A	▨
	Temporary Rock Silt Check Type-B	▶
	Wattle	⊙
1634.01	Temporary Rock Sediment Dam Type-A	▨
1634.02	Temporary Rock Sediment Dam Type-B	▨
1635.01	Rock Pipe Inlet Sediment Trap Type-A	⊙
1635.02	Rock Pipe Inlet Sediment Trap Type-B	⊙
1630.04	Stilling Basin	▭
1630.06	Special Stilling Basin	▭
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	▭
	Tiered Skimmer Basin	▭
	Infiltration Basin	▭

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



GRAPHIC SCALE

0 ——— 0

PLANS

0 ——— 0

PROFILE (HORIZONTAL)

0 ——— 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
2006 STANDARD SPECIFICATIONS

Roadway Standard Drawings

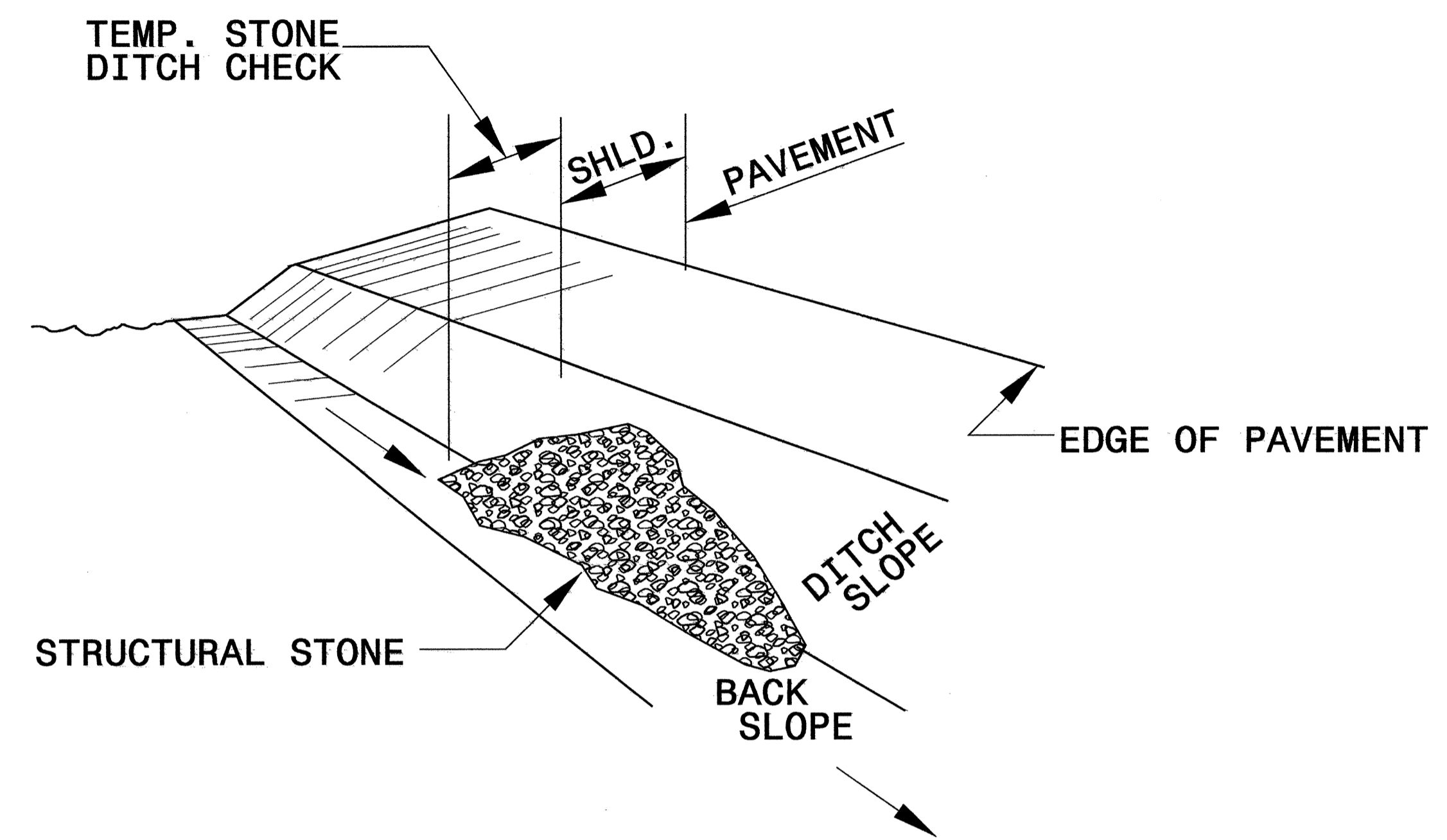
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence	1630.05 Temporary Diversion
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B

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PROJECT REFERENCE NO. U-3300B	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

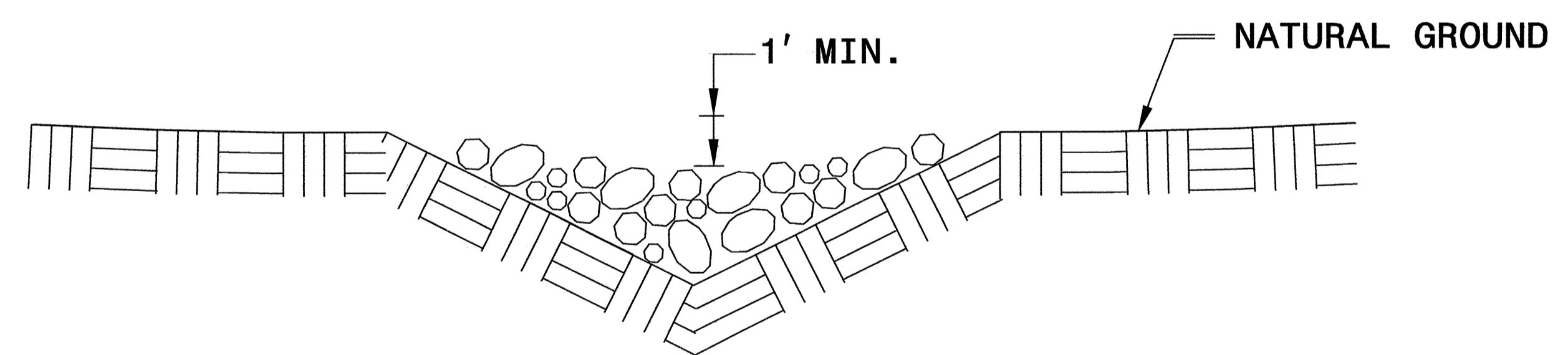


ISOMETRIC VIEW

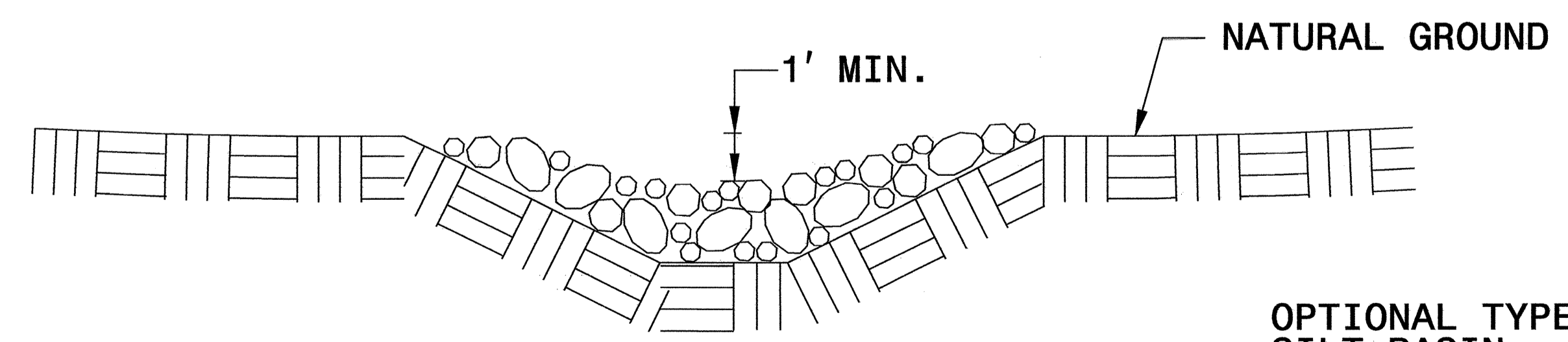
NOTES:

USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.

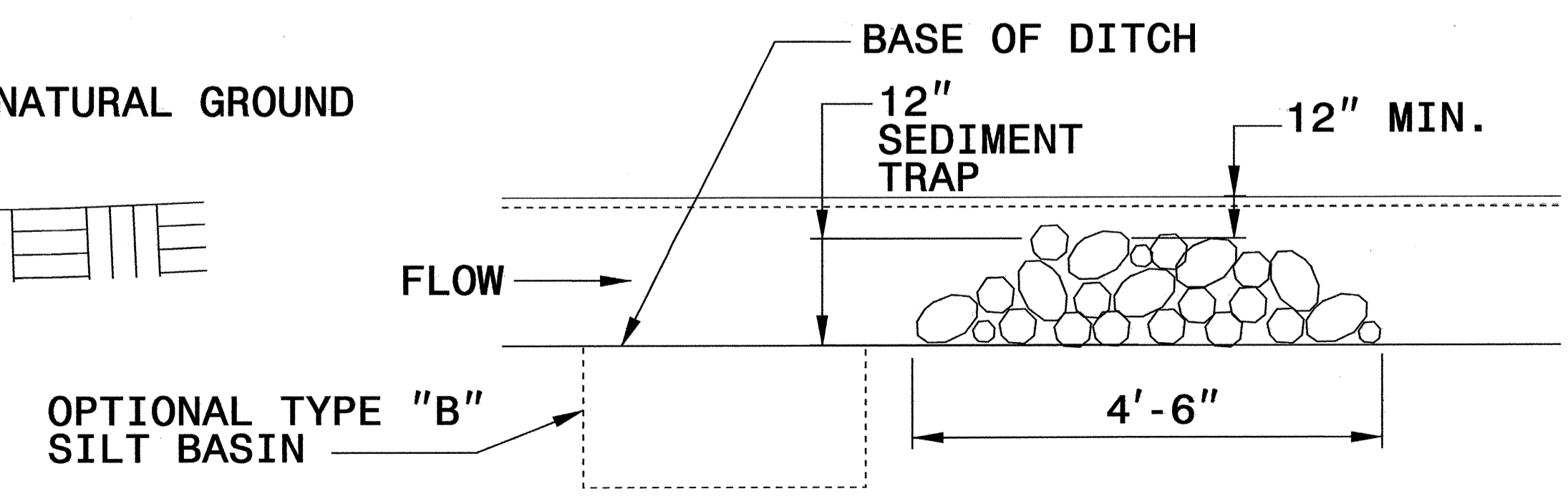
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



CROSS SECTION VEE DITCH



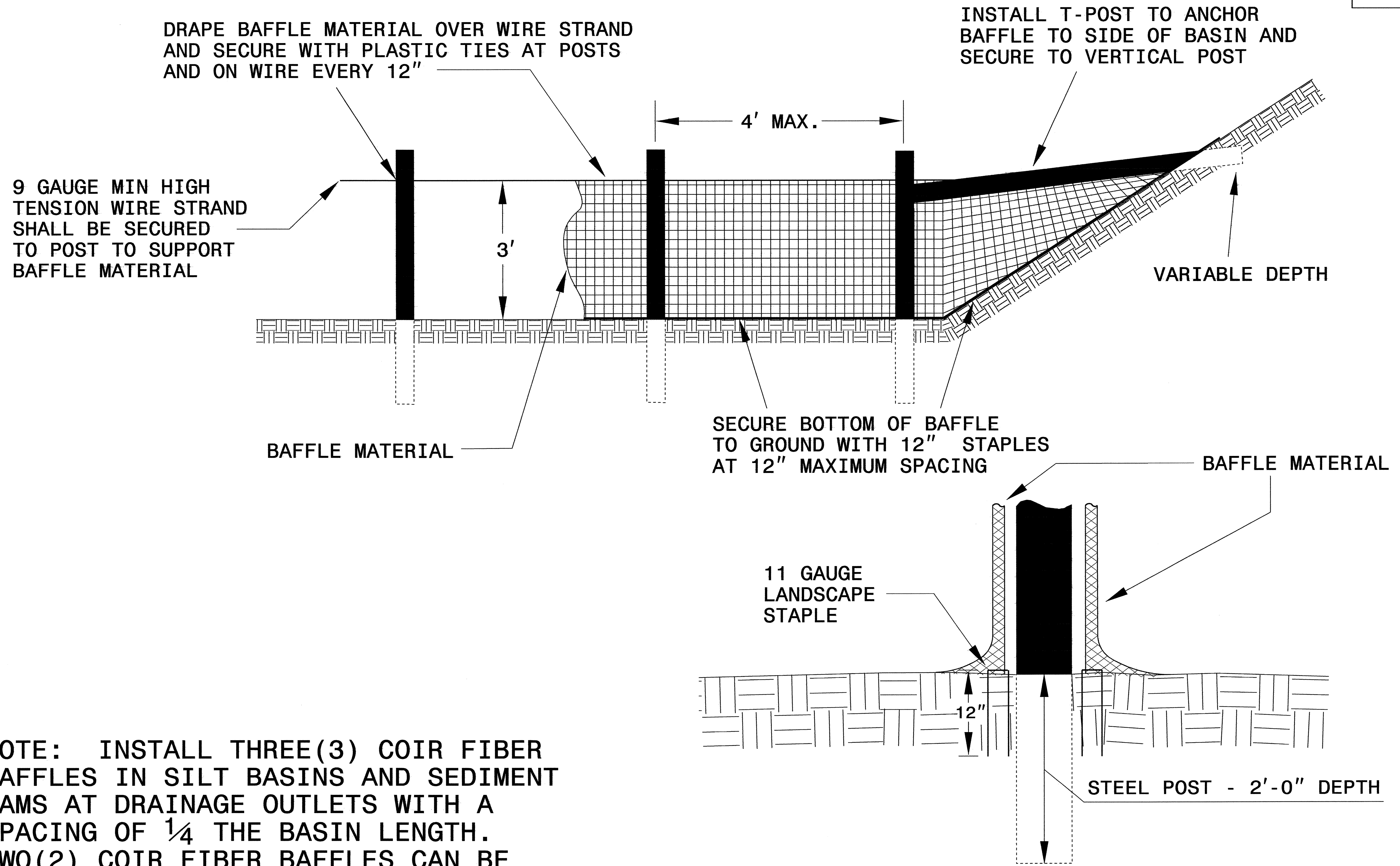
CROSS SECTION TRAPEZOIDAL DITCH



ELEVATION VIEW

PROJECT REFERENCE NO. U-3300B	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL

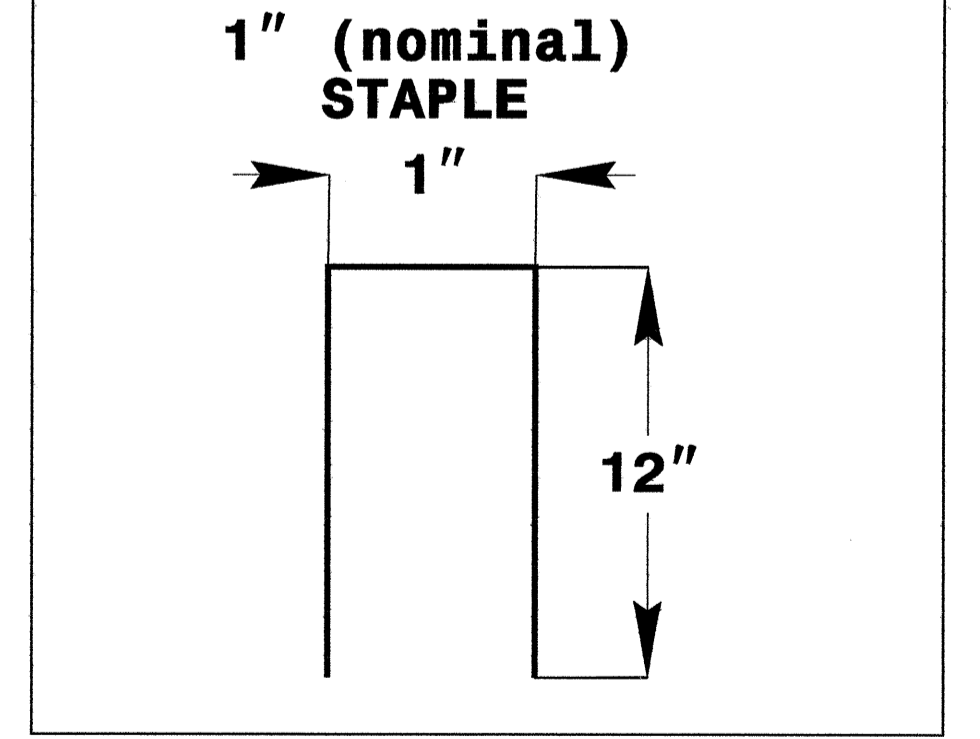
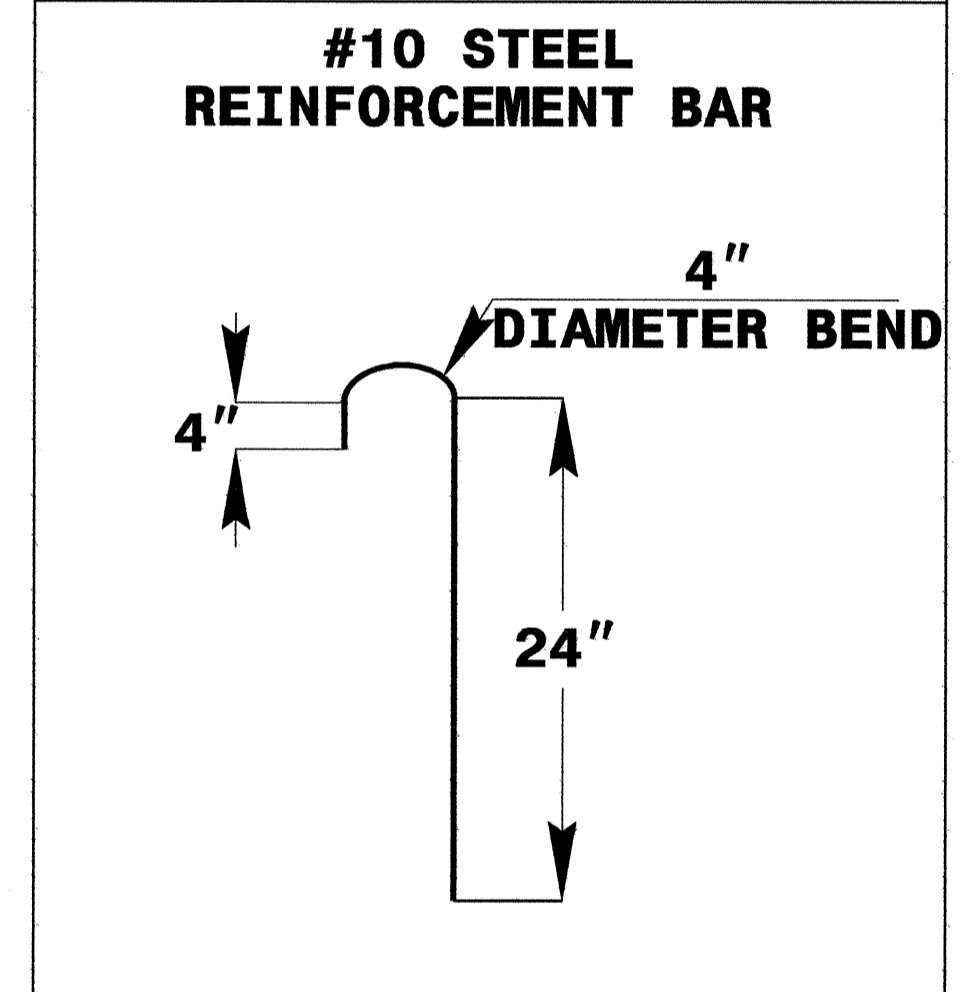
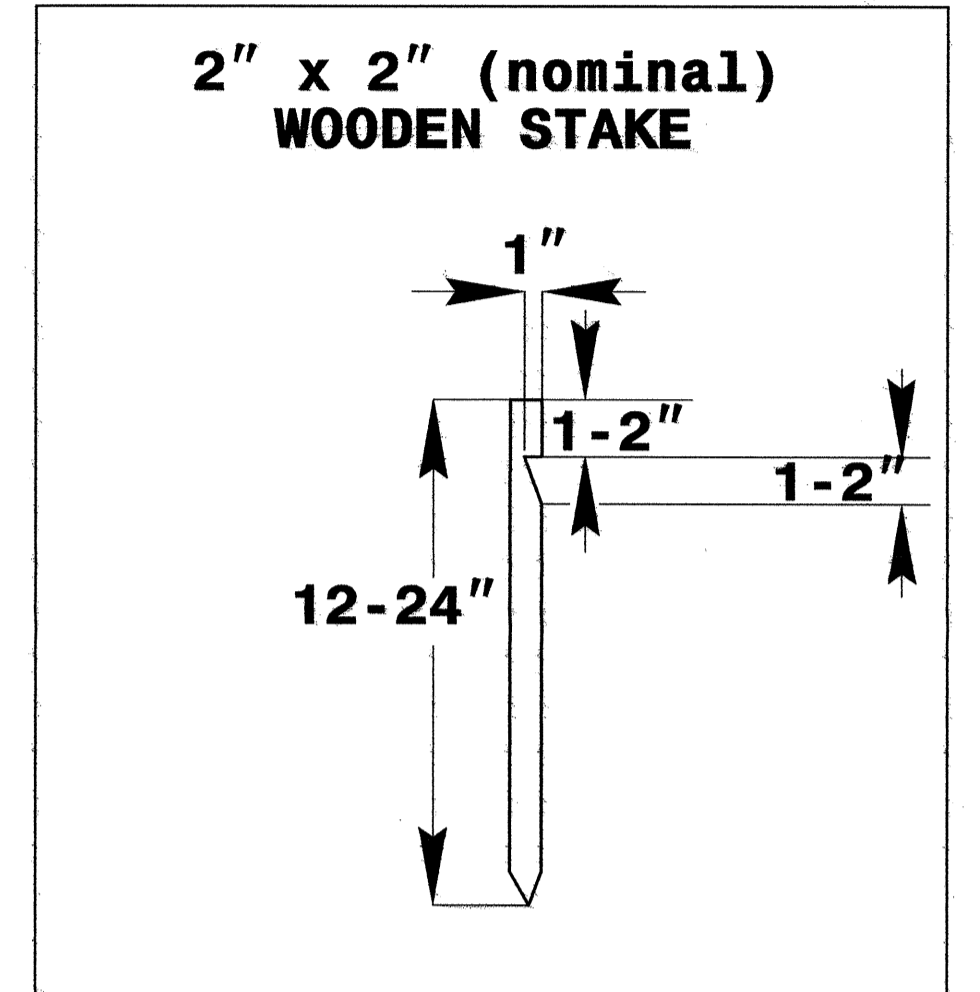
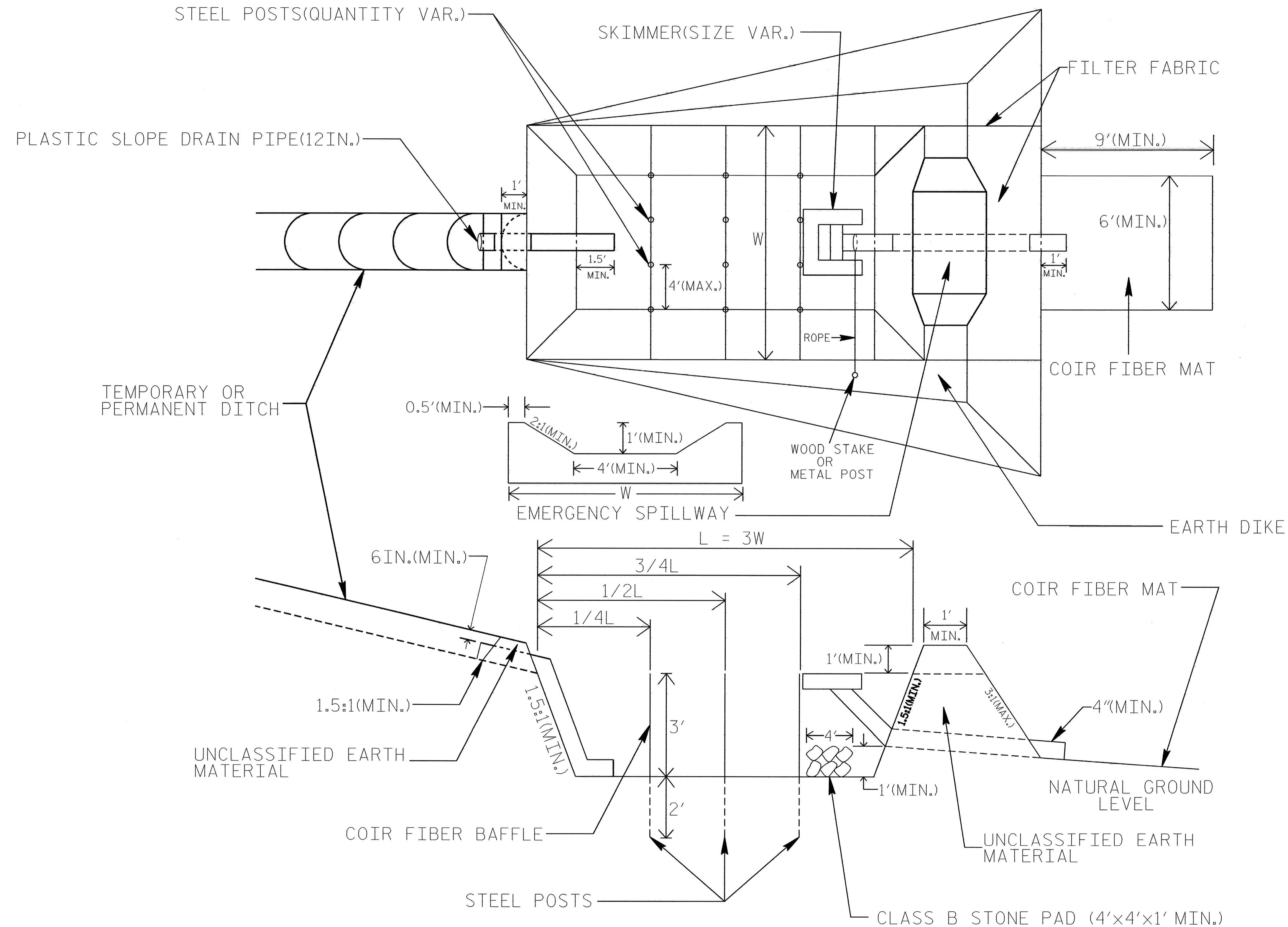


NOTE: INSTALL THREE (3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF $\frac{1}{4}$ THE BASIN LENGTH. TWO (2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF $\frac{1}{3}$ THE BASIN LENGTH.

BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 12" LANDSCAPE STAPLES

SKIMMER BASIN WITH BAFFLES DETAIL

PROJECT REFERENCE NO. U-3300B	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



COIR FIBER MAT ANCHOR OPTIONS

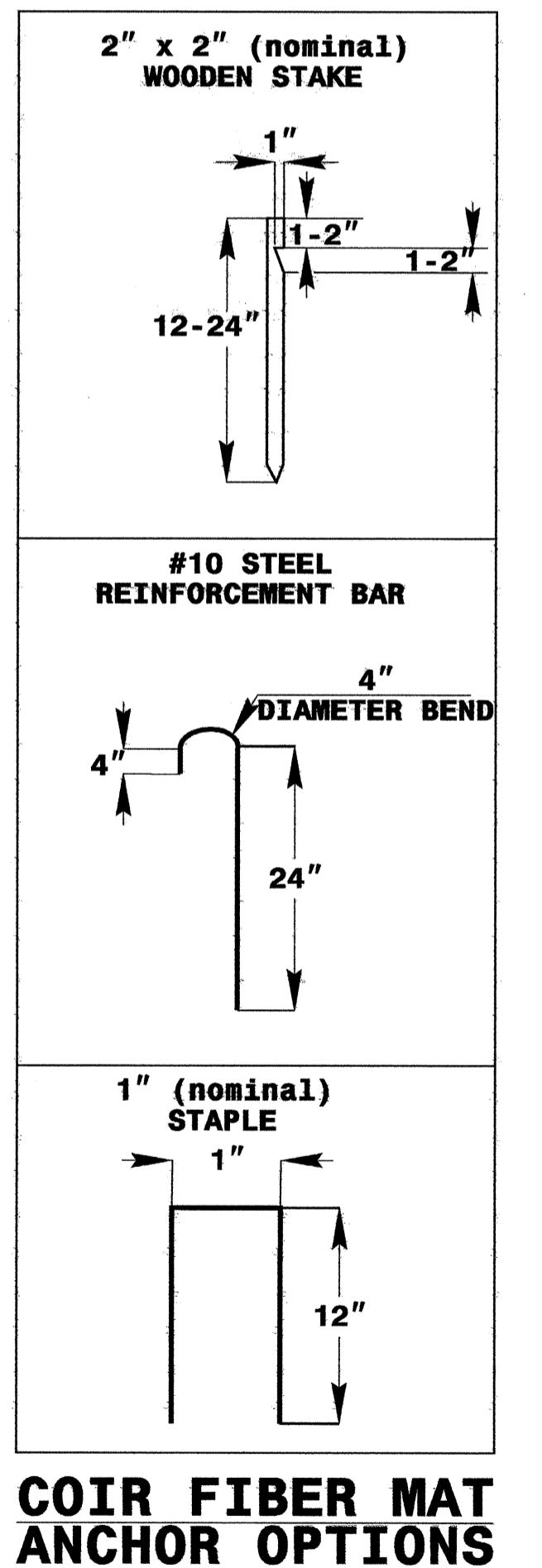
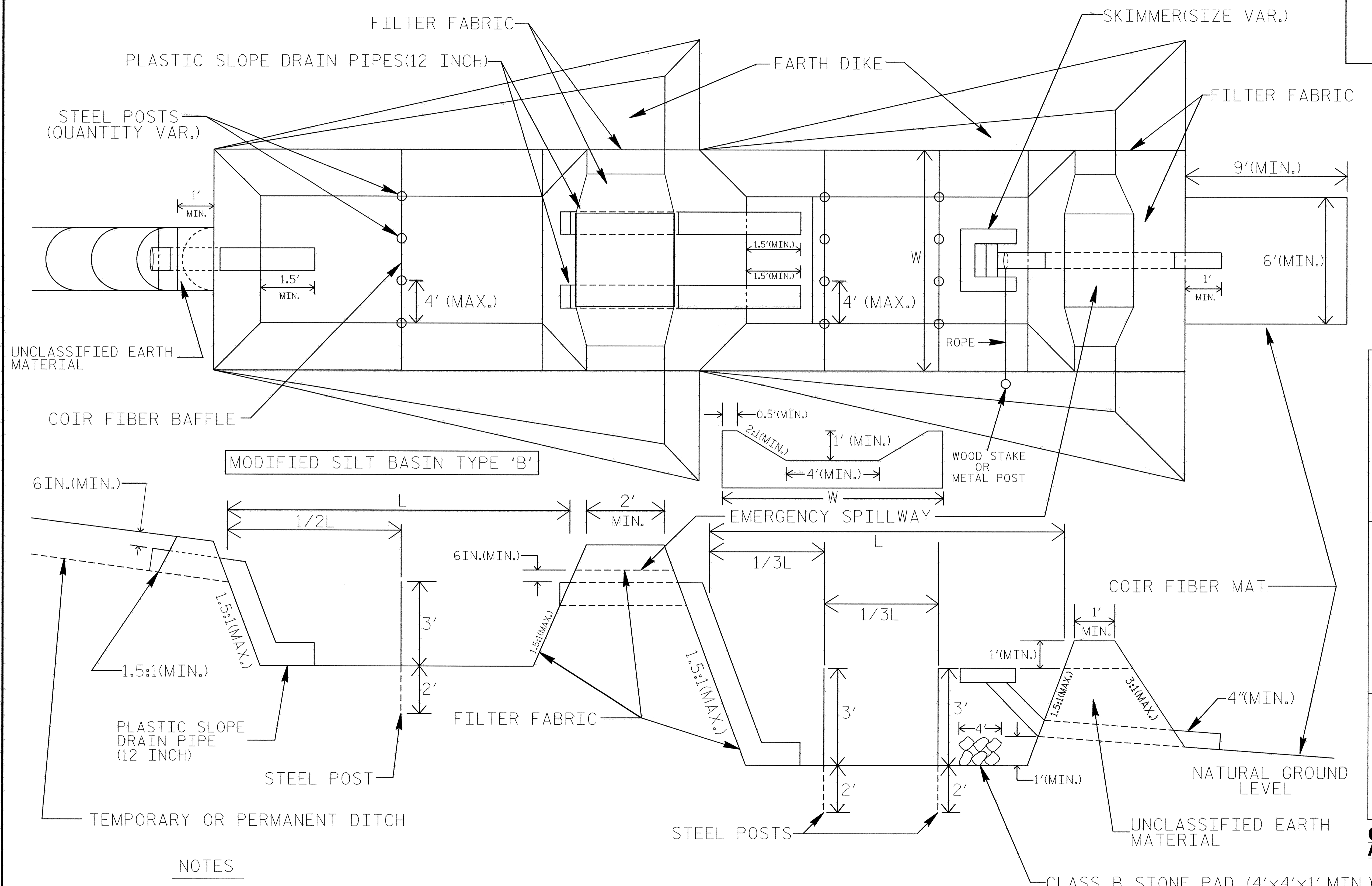
NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
3. THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
4. DETERMINE EMERGENCY SPILLWAY LENGTH (FT.) USING $Q/0.8$, WHERE Q IS FLOW RATE (CFS) INTO BASIN.

NOT TO SCALE

TIERED SKIMMER BASIN DETAIL

PROJECT REFERENCE NO. U-3300B	SHEET NO. EC-2C
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



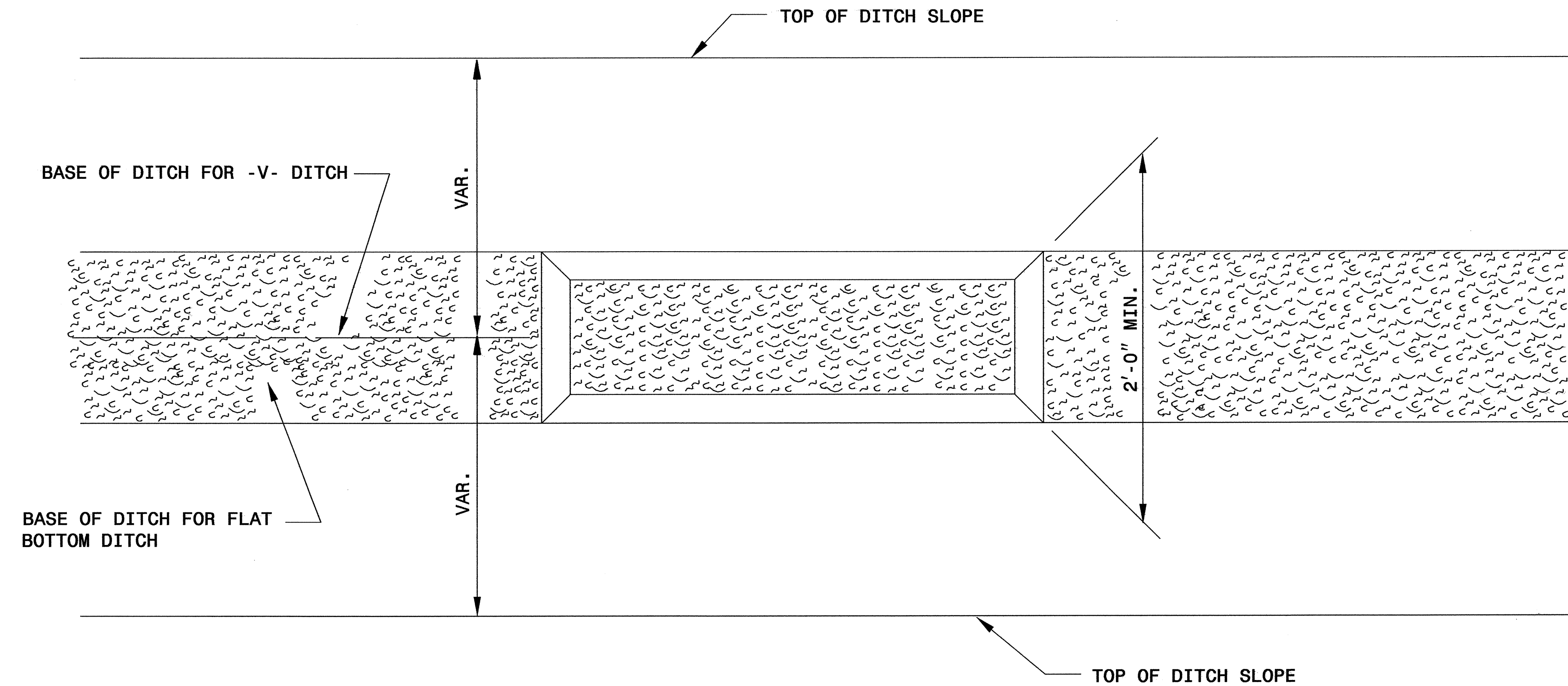
NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR SIDESLOPES OF BASINS.
2. LIMIT HEIGHT OF EARTH DIKES TO 5 FT.
3. ADDITIONAL MODIFIED SILT BASINS TYPE 'B' MAY BE NEEDED DEPENDING ON SLOPE.
4. THE MINIMUM BASIN WIDTHS SHALL BE 9 FT.
5. DETERMINE EMERGENCY SPILLWAY LENGTHS (FT.) USING $Q/0.8$, WHERE Q IS FLOW RATE (CFS) INTO UPPER BASIN.

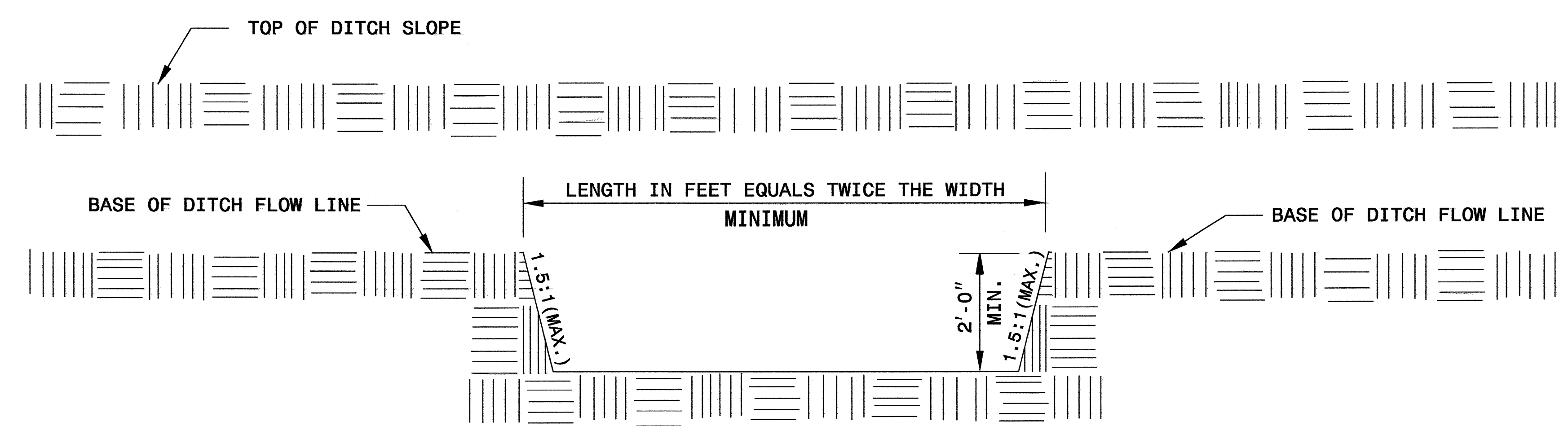
NOT TO SCALE

PROJECT REFERENCE NO. U-3300B	SHEET NO. EC-2D
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SILT BASIN 'B' DETAIL



PLAN



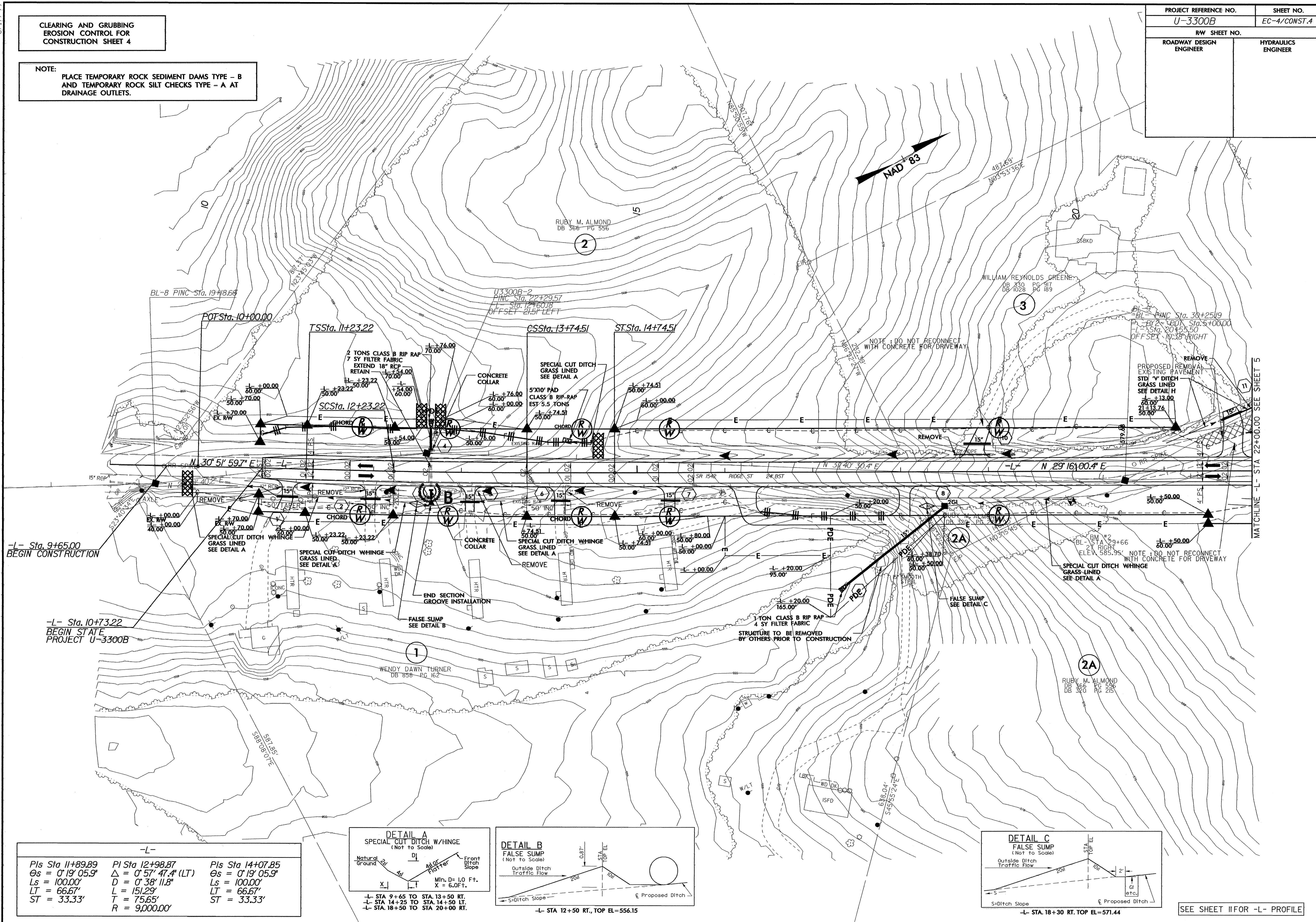
ELEVATION

8/17/99

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.

PROJECT REFERENCE NO. U-3300B	SHEET NO. EC-4/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

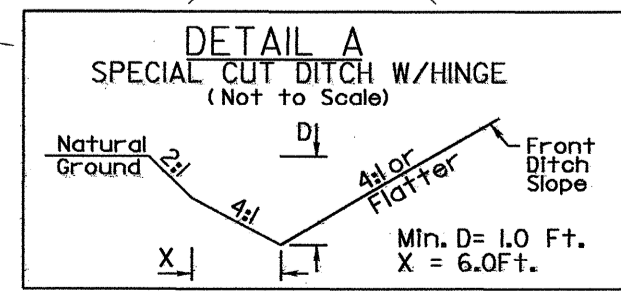


-L- Sta. 9+65.00
BEGIN CONSTRUCTION

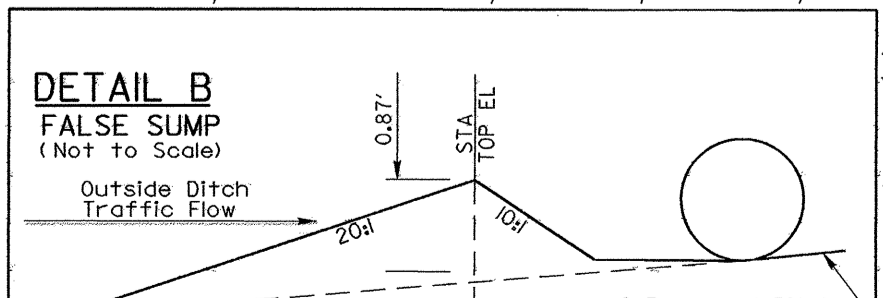
-L- Sta. 10+73.22
BEGIN STATE
PROJECT U-3300B

MATCHLINE -L- STA 22+00.00 SEE SHEET 5

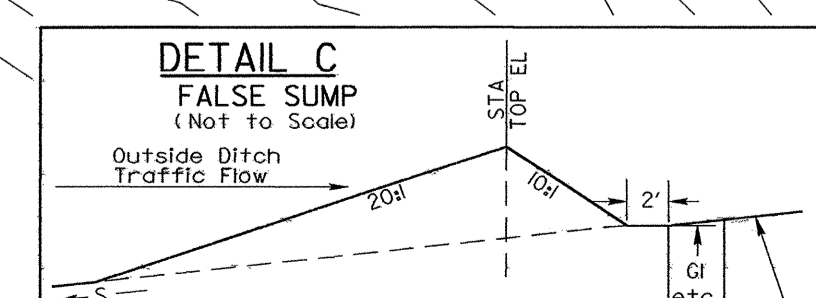
-L-		
PIs Sta 11+89.89	PI Sta 12+98.87	PIs Sta 14+07.85
$\Theta_s = 0^\circ 19' 05.9''$	$\Delta = 0^\circ 57' 47.4''$ (LT)	$\Theta_s = 0^\circ 19' 05.9''$
$L_s = 100.00'$	$D = 0^\circ 38' 11.8''$	$L_s = 100.00'$
$LT = 66.67'$	$L = 151.29'$	$LT = 66.67'$
$ST = 33.33'$	$T = 75.65'$	$ST = 33.33'$
	$R = 9,000.00'$	



-L- STA 9+65 TO STA. 13+50 RT.
-L- STA 14+25 TO STA. 14+50 LT.
-L- STA. 18+50 TO STA 20+00 RT.



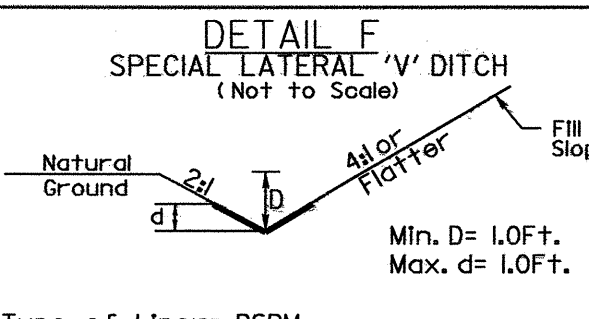
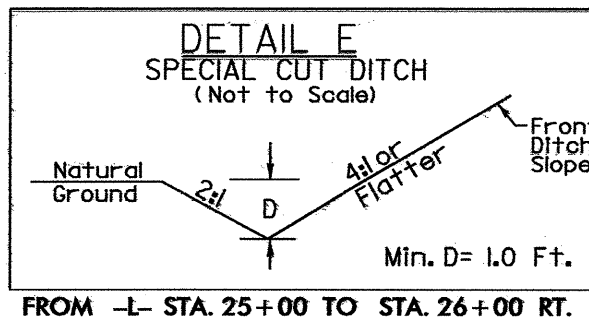
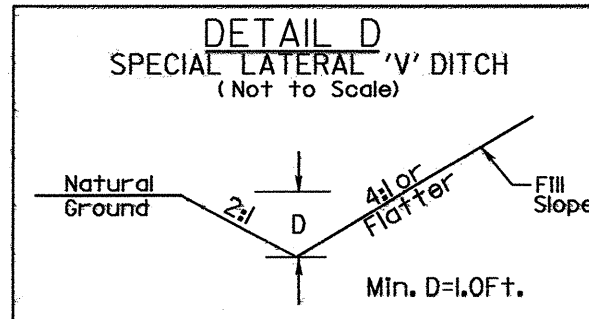
-L- STA 12+50 RT., TOP EL=556.15



-L- STA. 18+30 RT. TOP EL=571.44

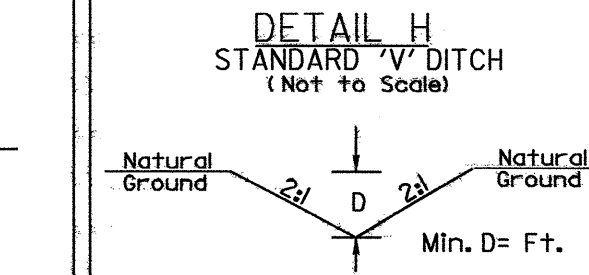
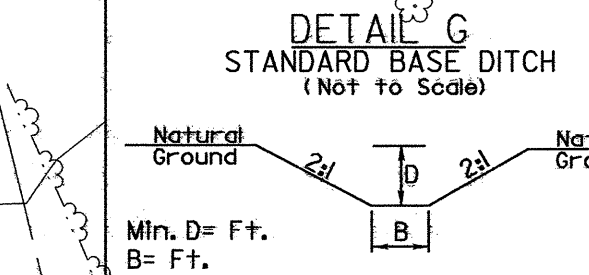
SEE SHEET 11 FOR -L- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
U-3300B	EC-5/CONST.5
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	



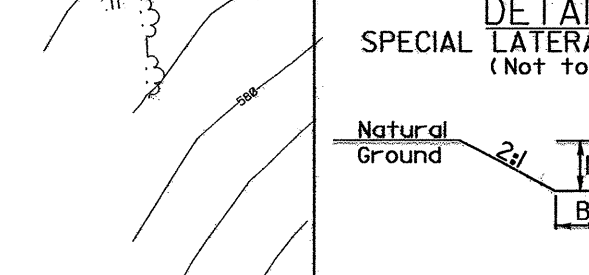
FROM -L- STA. 22+00 TO STA. 25+00 RT.
 FROM -L- STA. 29+00 TO STA. 30+50 RT.
 FROM -L- STA. 31+89 TO STA. 32+50 RT.
 FROM -L- STA. 34+50 TO STA. 25+50 LT.
 FROM -YI- STA. 15+00 TO STA. 16+00 RT. 109'@4.46%
 FROM -YI- STA. 21+69 TO STA. 22+56.78 RT.
 FROM -YI- STA. 21+00 TO STA. 22+50 LT.

FROM -L- STA. 25+00 TO STA. 26+00 RT.
 FROM -L- STA. 27+00 TO STA. 29+00 RT.
 FROM -L- STA. 32+50 TO STA. 34+50 RT.
 FROM -L- STA. 25+50 TO STA. 28+50 LT.
 FROM -YI- STA. 19+00 TO STA. 20+00 RT.
 FROM -YI- STA. 18+50 TO STA. 20+35 LT.
 FROM -YI- STA. 20+75 TO STA. 21+00 LT.



-YI- STA. 21+69 RT.
 DDE=4 CU YDS, 30'@2.07%

-L- STA. 21+00 - 22+50 LT.
 DDE=4 CU YDS, 68'@3.64%, 94'@1.4%
 -YI- STA. 15+00 RT.
 DDE=2 CU YDS, 50'@0.5%

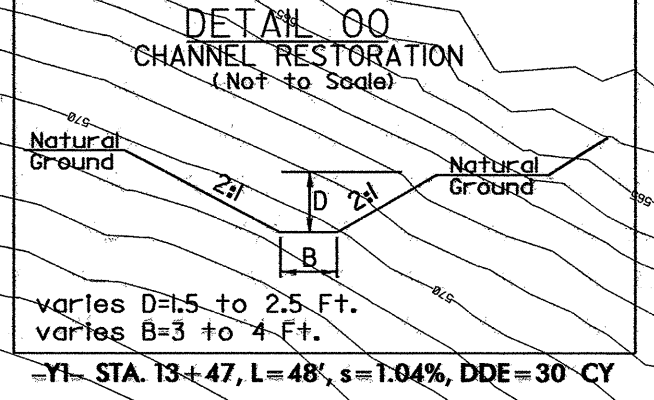


FROM -YI- STA. 11+50 TO STA. 12+00 RT 64'@3.31%
 FROM -YI- STA. 12+00 TO STA. 13+00 RT 118'@4.6%
 FROM -YI- STA. 13+00 TO STA. 13+50 RT 52'@0.92%

32 x 15 x 3
 1.5 inch Skimmer
 with 0.5 inch
 Orifice Diameter
 7 ft. weir
 ID 5.2F

46 x 22 x 3
 1.5 inch Skimmer
 with 0.675 inch
 Orifice Diameter
 14 ft. weir
 ID 5.1C&G

50 x 25 x 3
 1.5 inch Skimmer
 with 1.0 inch
 Orifice Diameter
 17 ft. weir
 ID 5.3C&G

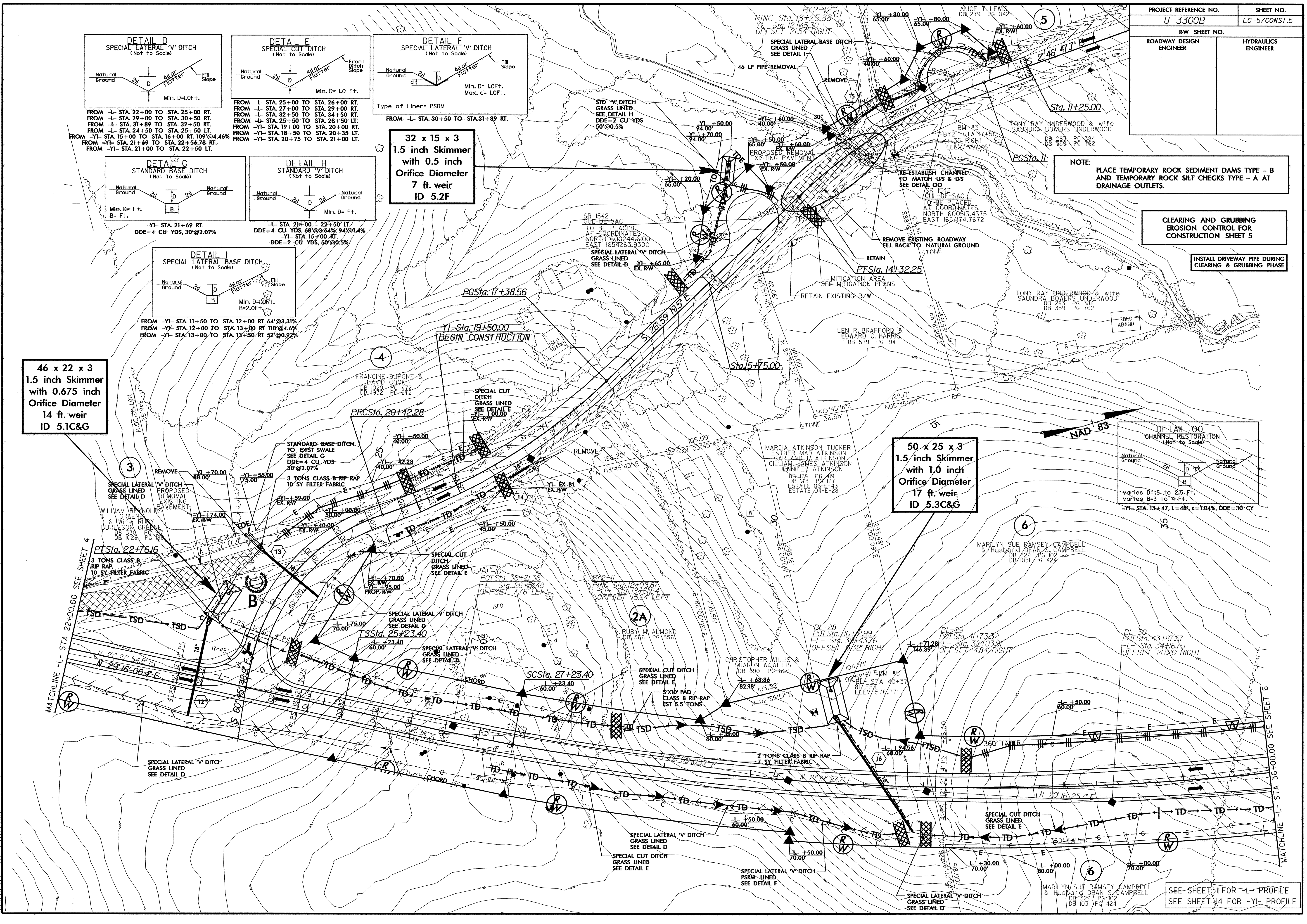


NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5

INSTALL DRIVEWAY PIPE DURING CLEARING & GRUBBING PHASE

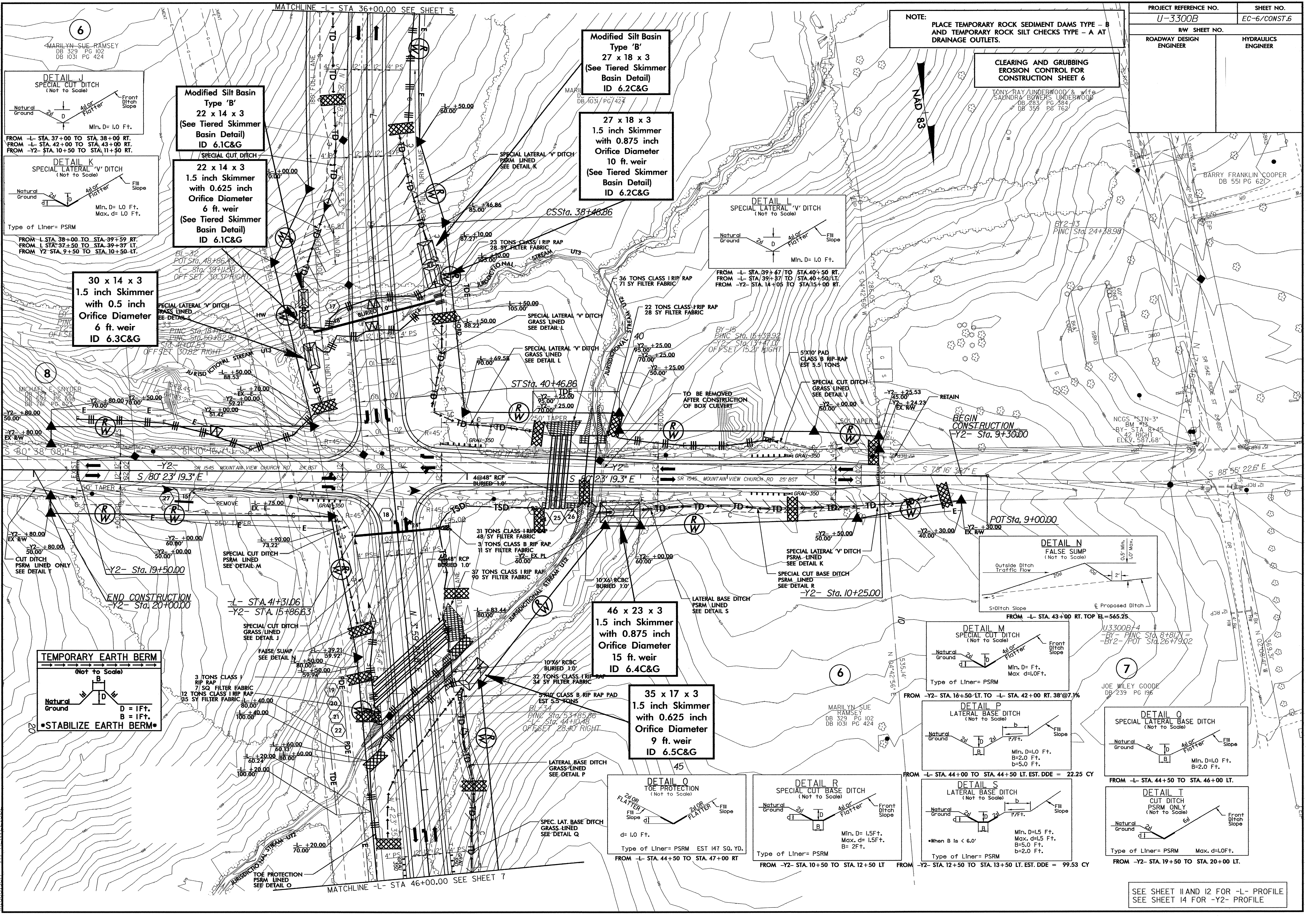
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 REVISIONS
 AT: REV 21502



SEE SHEET 11 FOR -L- PROFILE
 SEE SHEET 14 FOR -YI- PROFILE

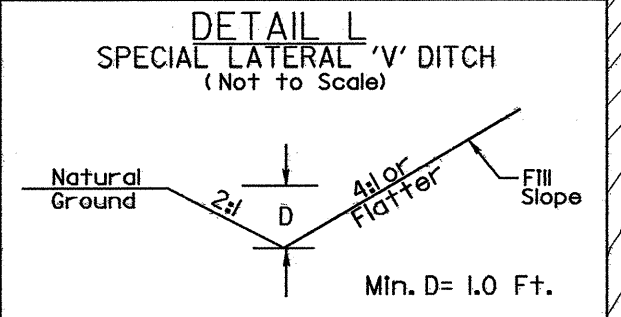
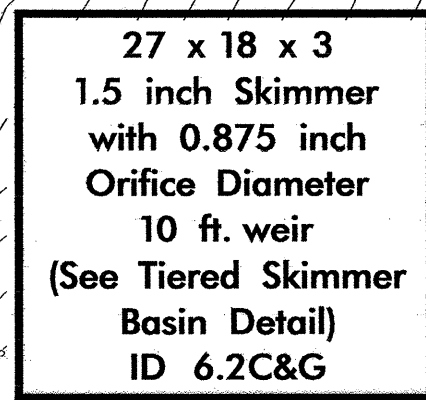
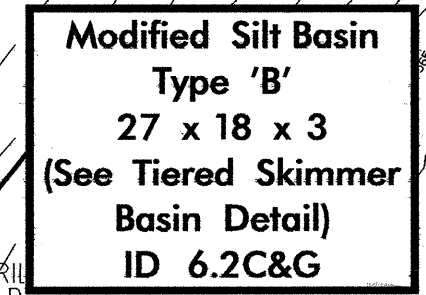
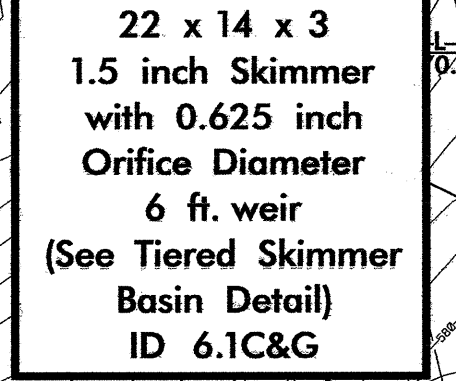
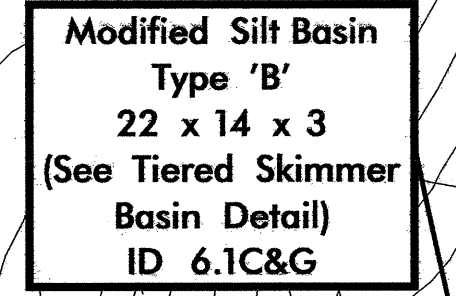
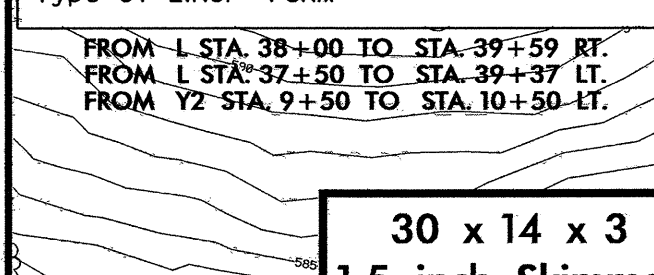
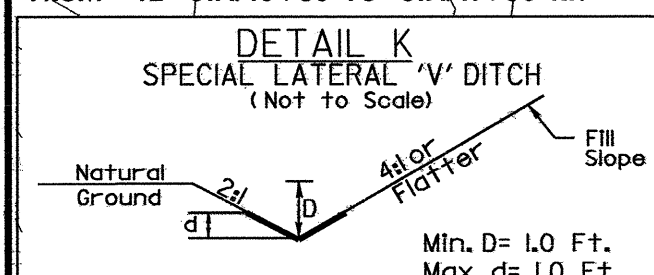
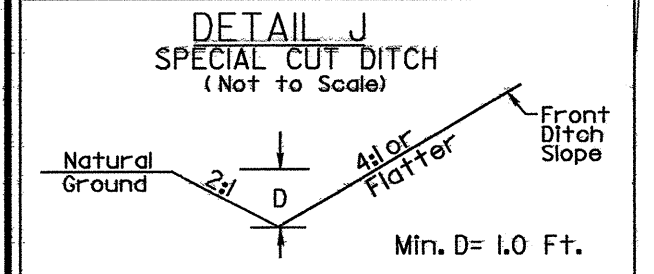
8/17/99

PROJECT REFERENCE NO. U-3300B	SHEET NO. EC-6/CONST.6
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

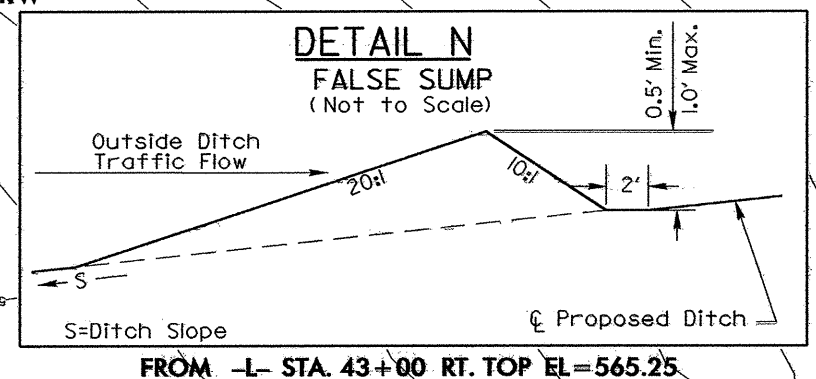


NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

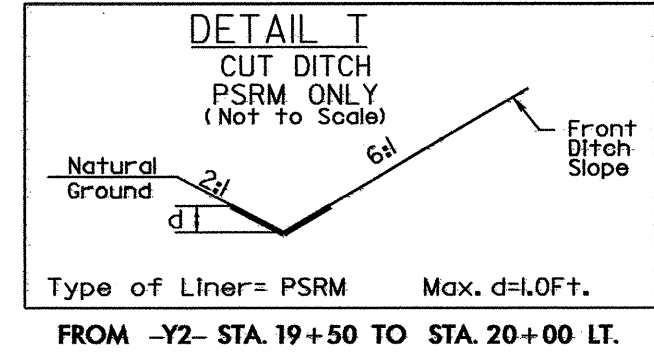
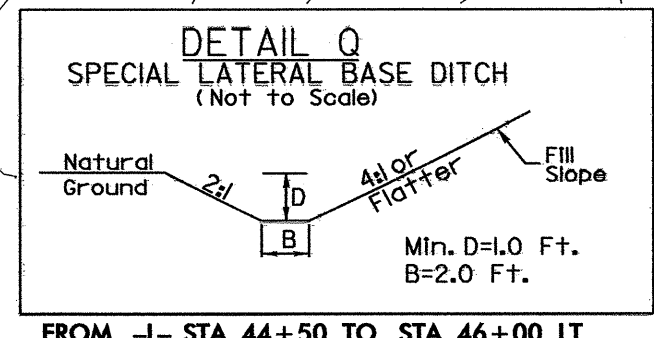
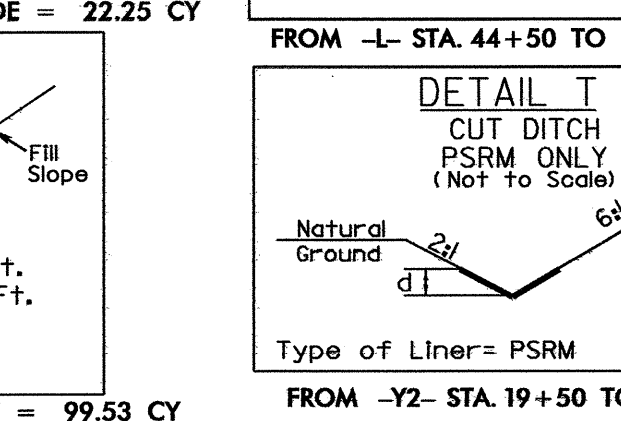
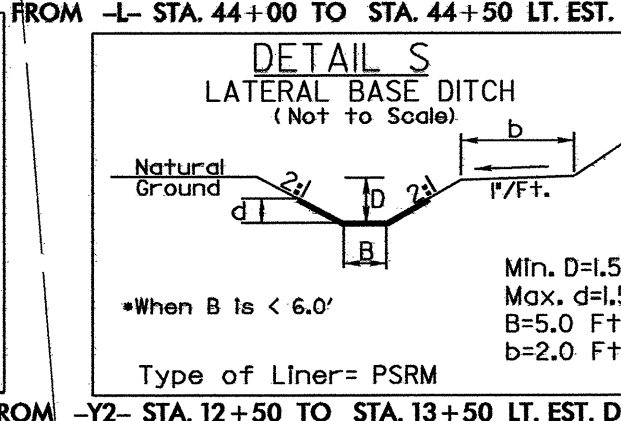
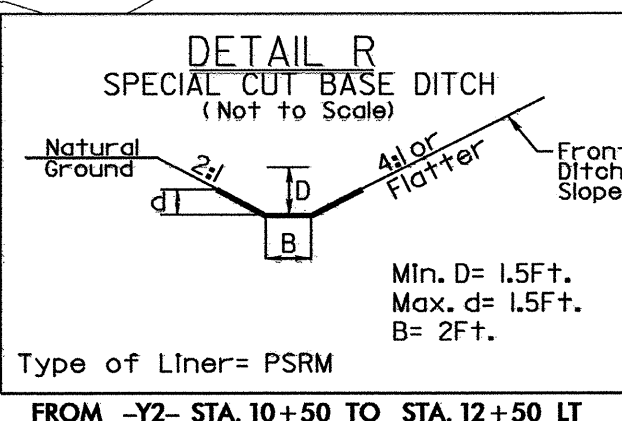
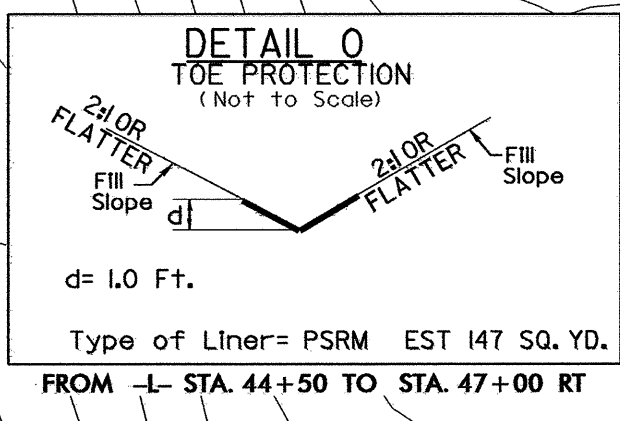
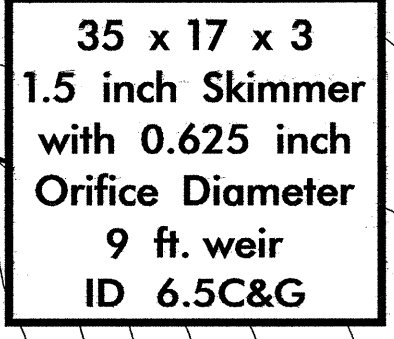
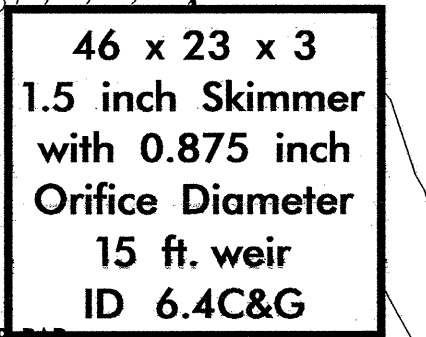
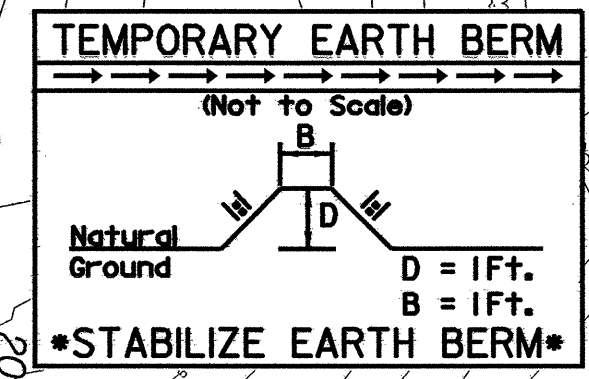
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6



FROM -L- STA. 39+47 TO STA. 40+50 RT.
FROM -L- STA. 39+37 TO STA. 40+50 LT.
FROM -Y2- STA. 14+05 TO STA. 15+00 RT.



FROM -L- STA. 43+00 RT. TOP EL.=565.25



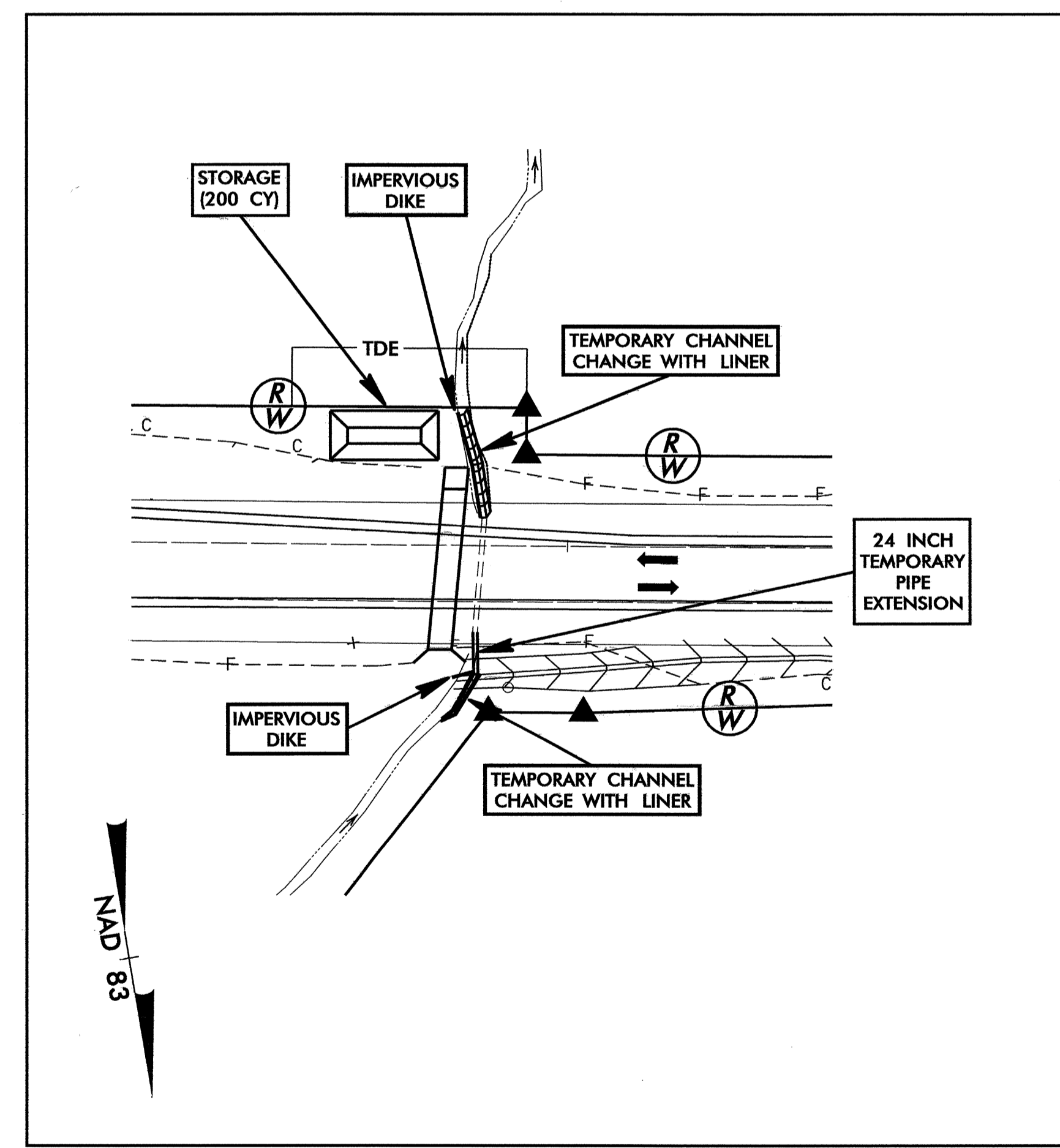
SEE SHEET 11 AND 12 FOR -L- PROFILE
SEE SHEET 14 FOR -Y2- PROFILE

PROJECT REFERENCE NO. U-3300B	SHEET NO. EC-7/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 13+58 -Y2-

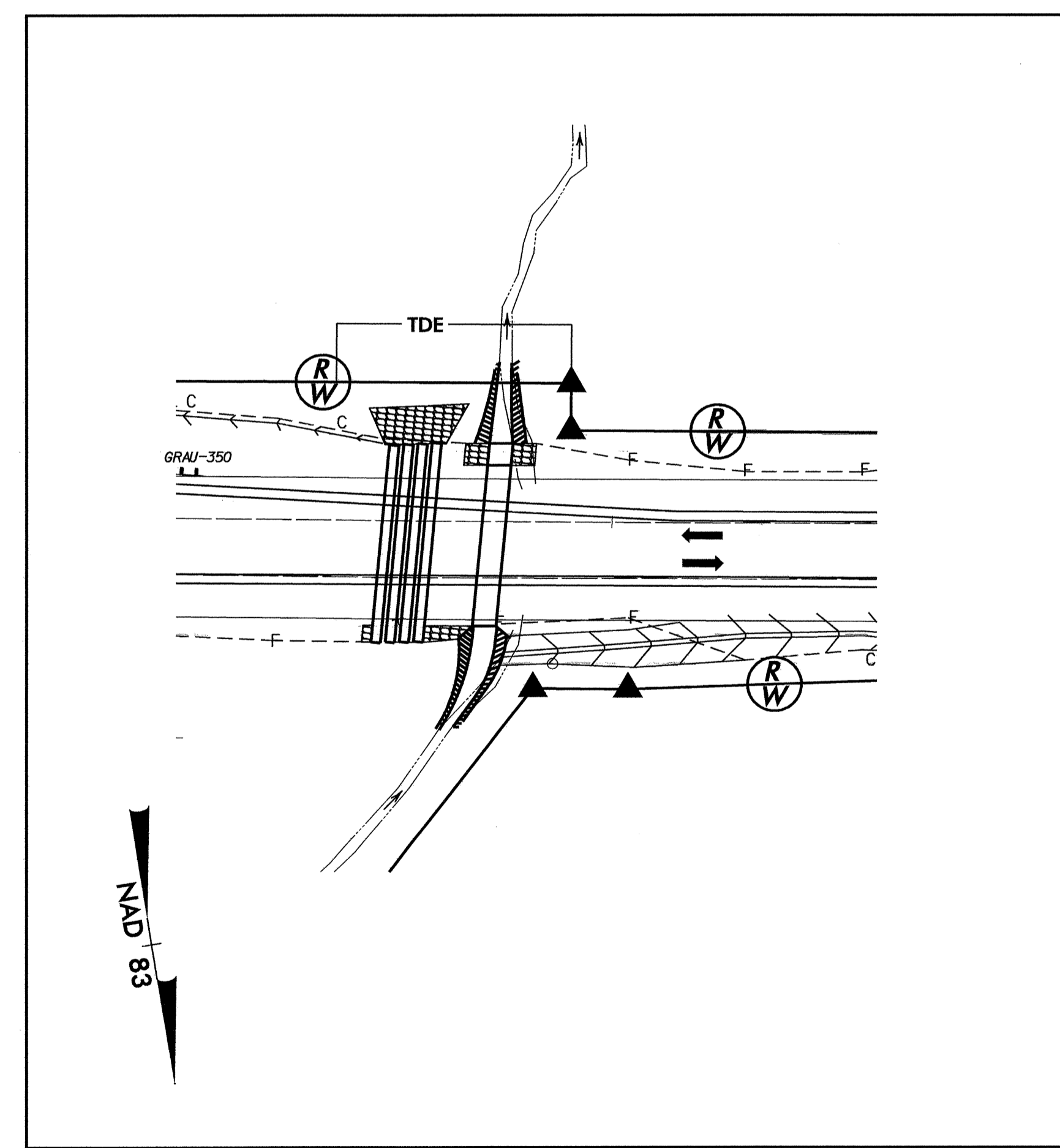
PHASE I

- 1.) INSTAL STILLING BASIN (200 CY) AND 24" TEMPORARY PIPE EXTENSION.
- 2.) CONSTRUCT TEMPORARY CHANNEL CHANGE WITH LINER (1 FT DEEP, 2.5 FT BASE, 2:1 SIDE SLOPE) AND IMPERVIOUS DIKES, UTILIZING DIKES AS ONE SIDE OF THE CHANNEL.
- 3.) DIVERT FLOW INTO TEMPORARY CHANNEL CHANGE.
- 4.) CONSTRUCT BOX CULVERT.



PHASE II

- 5.) REMOVE IMPERVIOUS DIKES.
- 6.) COMPLETE UPSTREAM/DOWNSTREAM CHANNEL IMPROVEMENTS.
- 7.) DIVERT FLOW INTO NEW CULVERT SYSTEM AND REMOVE 24" PIPE AND EXTENSION.
- 8.) BACKFILL TEMPORARY DIVERSION CHANNEL AND REMOVE STILLING BASIN.
- 9.) INSTALL FLOODPLAIN PIPES AND COMPLETE ROADWAY.

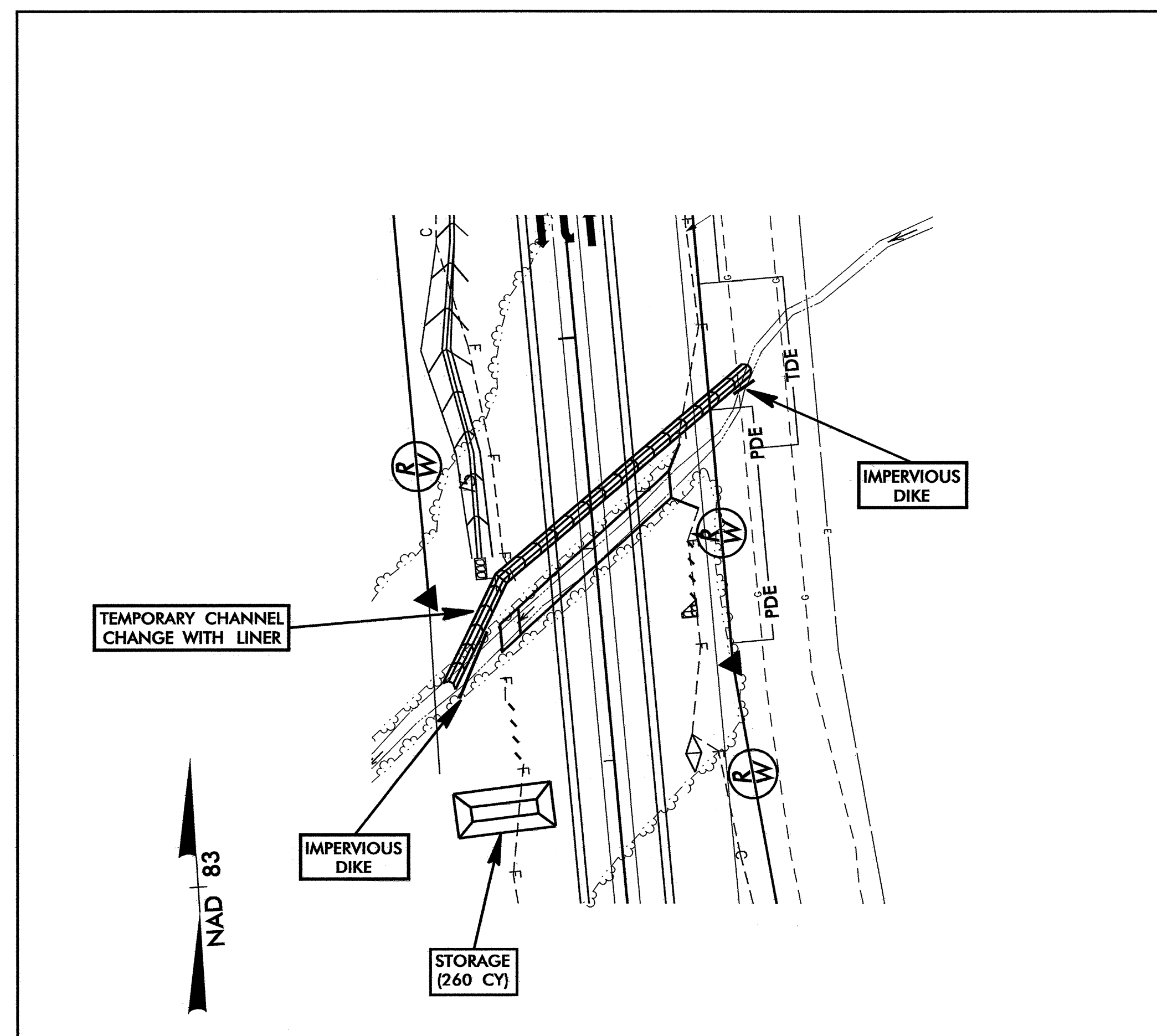


PROJECT REFERENCE NO. <i>U-3300B</i>	SHEET NO. <i>EC-8/CONST.6</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 43+98 -L-

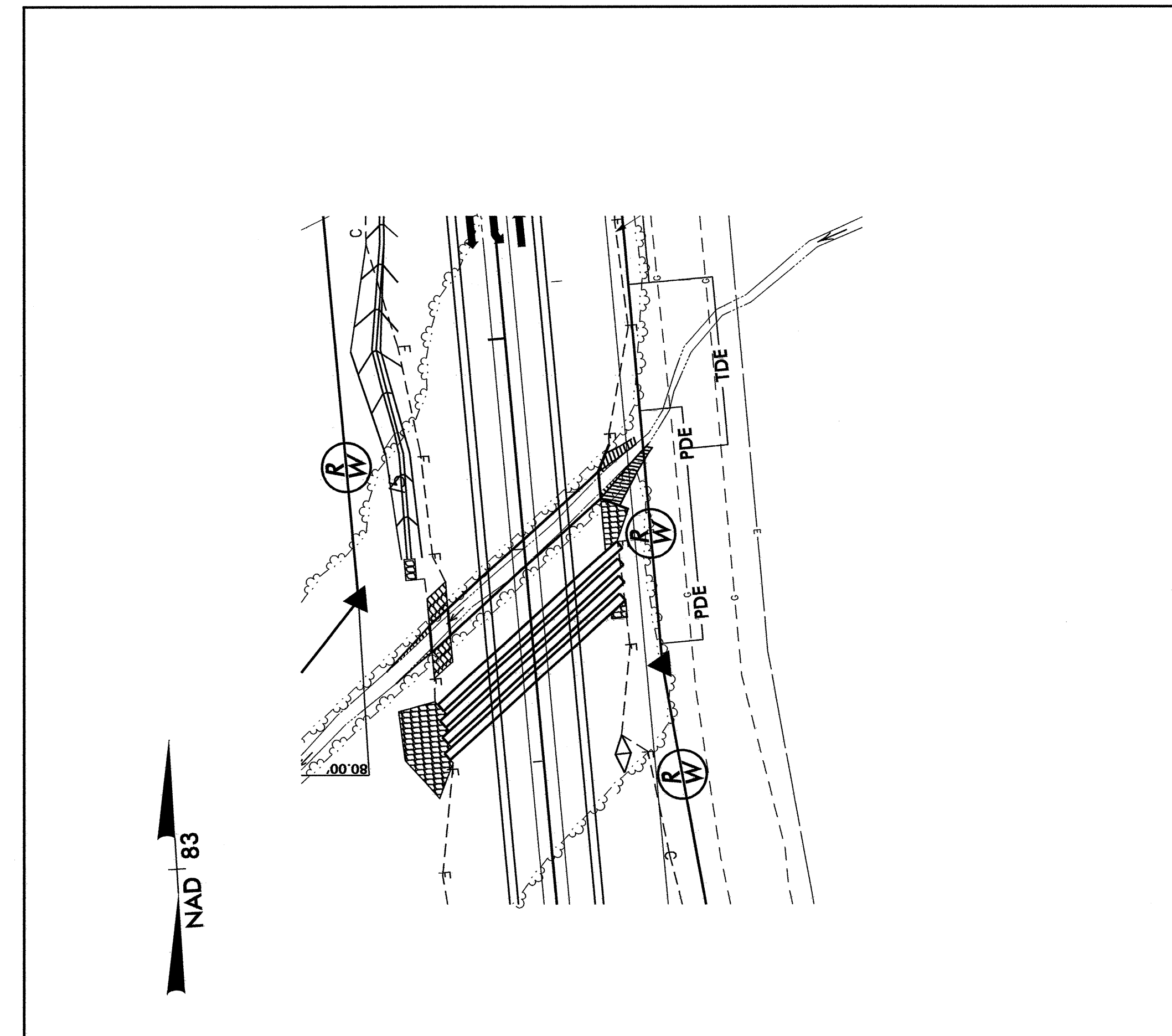
PHASE I

- 1.) INSTALL STILLING BASIN (260 CY).
- 2.) CONSTRUCT TEMPORARY CHANNEL CHANGE WITH LINER (1 FT DEEP, 2.5 FT BASE, 2:1 SIDE SLOPES).
- 3.) DIVERT FLOW INTO TEMPORARY CHANNEL CHANGE.
- 4.) CONSTRUCT BOX CULVERT.



PHASE II

- 5.) COMPLETE UPSTREAM/DOWNSTREAM CHANNEL IMPROVEMENTS.
- 6.) REMOVE IMPERVIOUS DIKES AND TEMPORARY CHANNEL CHANGE.
- 7.) DIVERT FLOW INTO NEW CULVERT SYSTEM.
- 8.) REMOVE STILLING BASIN.
- 9.) INSTALL FLOODPLAIN PIPES AND COMPLETE ROADWAY.



8/17/99

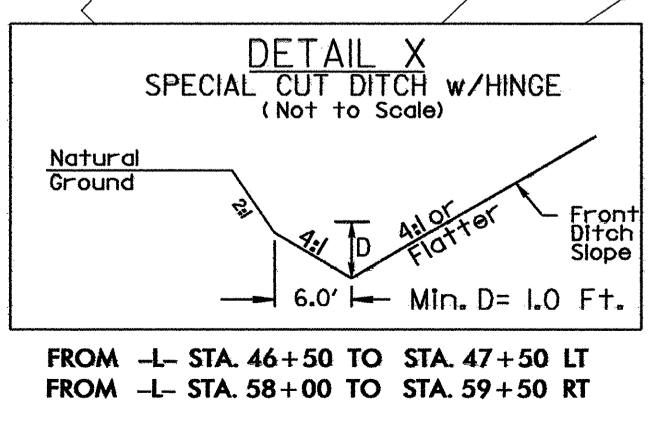
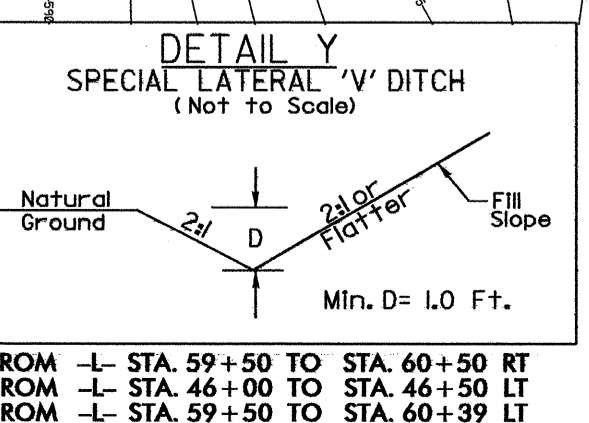
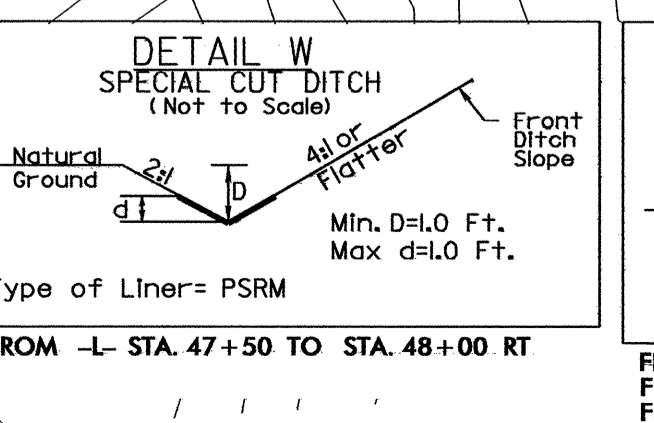
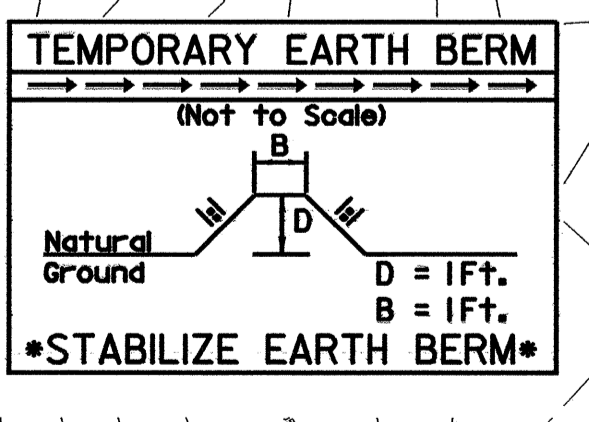
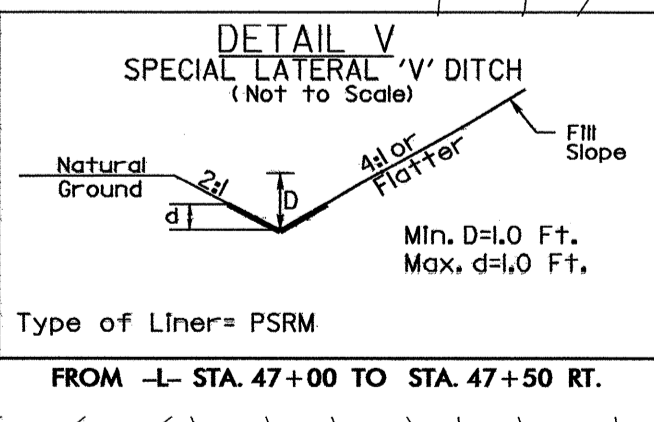
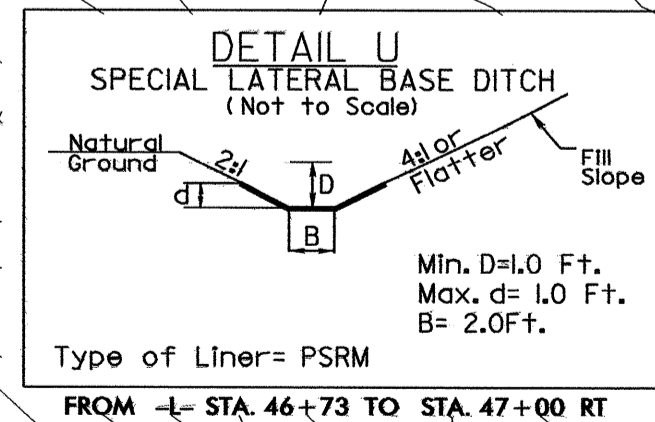
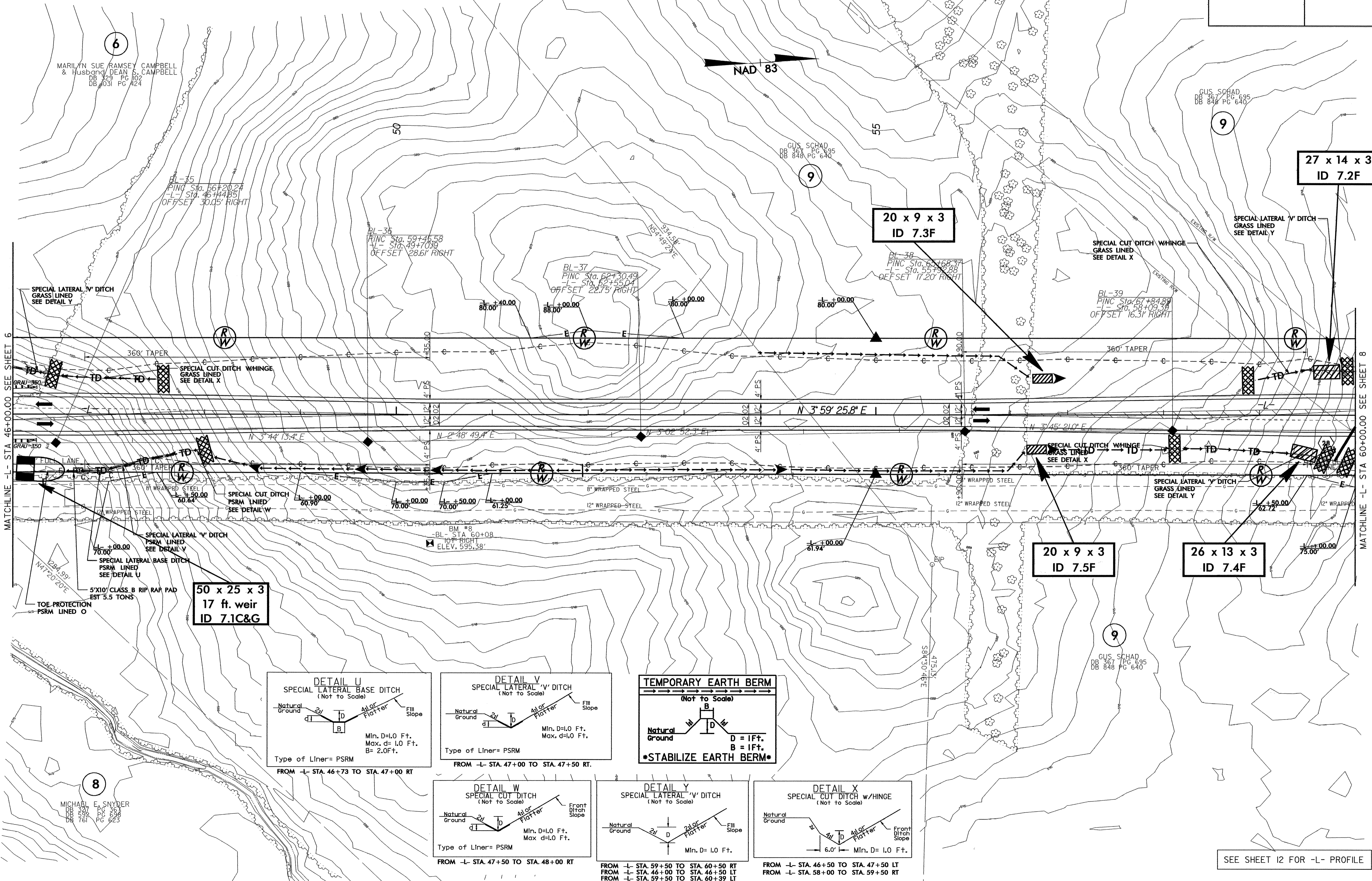
STONE

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. U-3300B	SHEET NO. EC-9/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



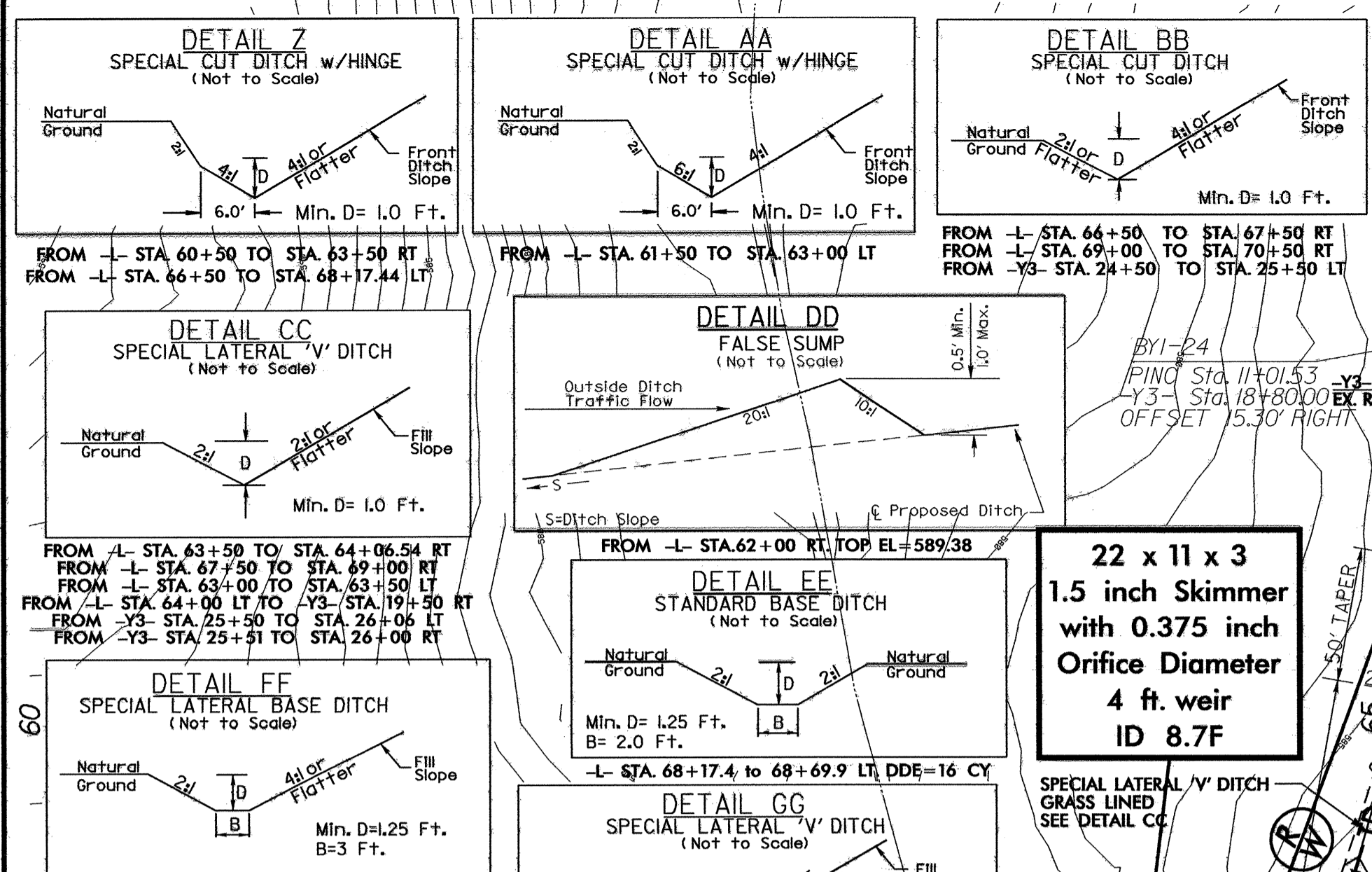
SEE SHEET 12 FOR -L- PROFILE

mlawatsch AT RENV221502

PROJECT REFERENCE NO. U-3300B	SHEET NO. EC-10/CONST.8
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 8



26 x 13 x 3
1.5 inch Skimmer
with 0.375 inch
Orifice Diameter
5 ft. weir
ID 8.2F

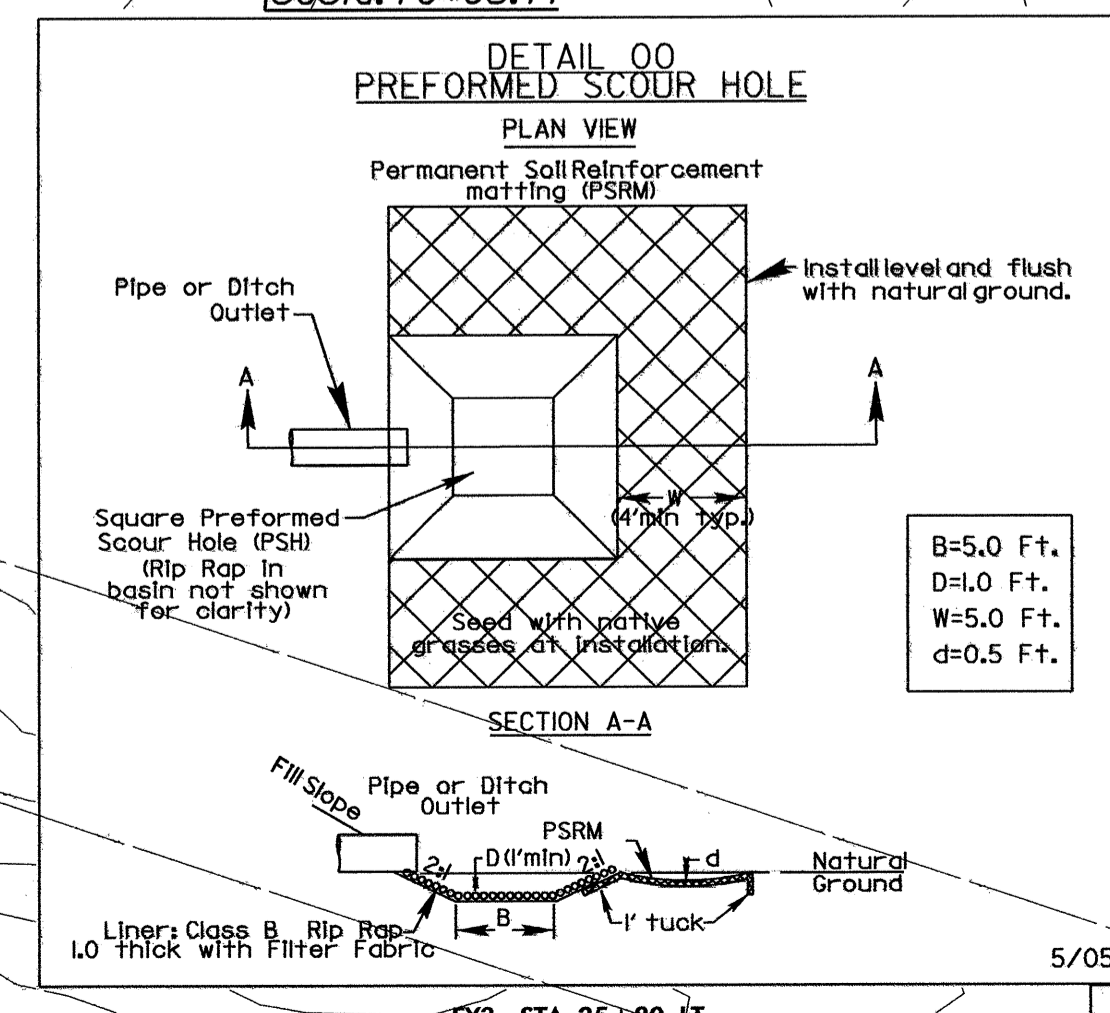
18 x 9 x 3
ID 8.8F

22 x 11 x 3
1.5 inch Skimmer
with 0.375 inch
Orifice Diameter
4 ft. weir
ID 8.7F

27 x 13 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
5 ft. weir
ID 8.5F

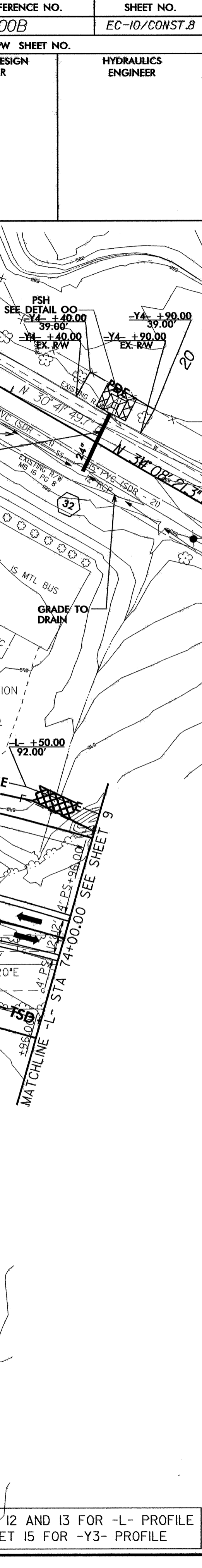
25 x 12 x 3
1.5 inch Skimmer
with 0.375 inch
Orifice Diameter
4 ft. weir
ID 8.3F

18 x 9 x 3
ID 8.4F



SEE SHEET 12 AND 13 FOR -L- PROFILE
SEE SHEET 15 FOR -Y3- PROFILE

8.17.99
MATCHLINE -L- STA. 60+00.00 SEE SHEET 7
MATCHLINE -L- STA. 74+00.00 SEE SHEET 9
MATCHLINE -Y3- STA. 25+80.00

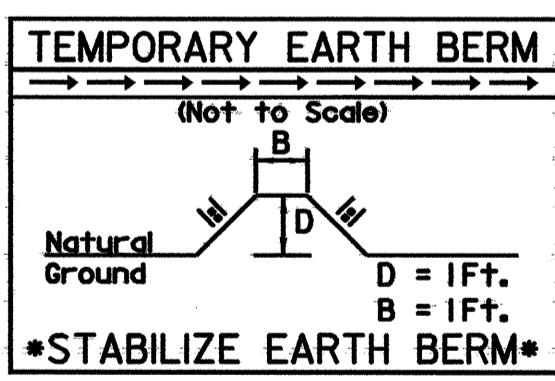
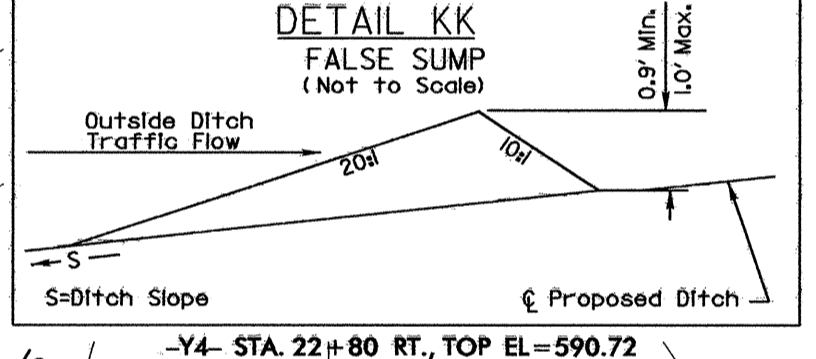
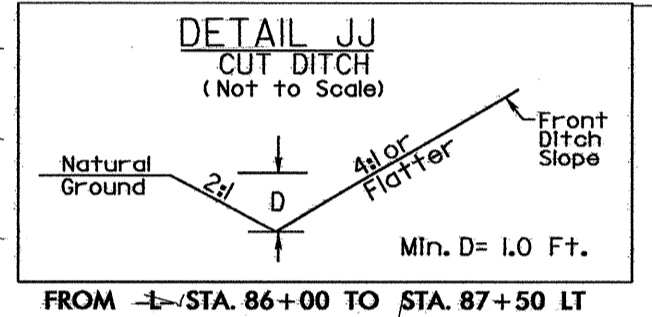
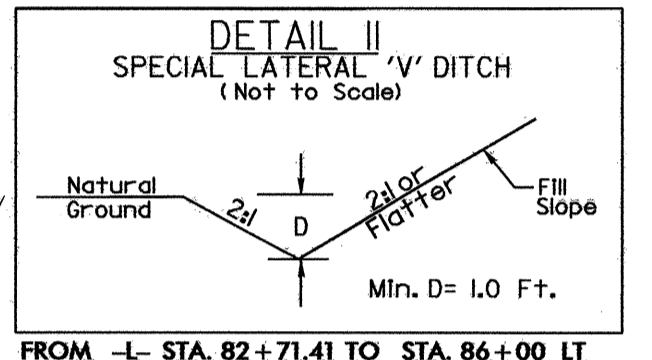
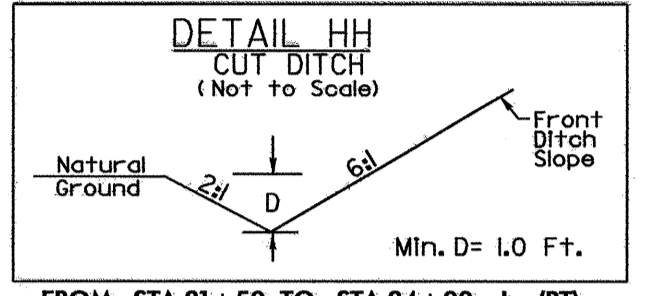
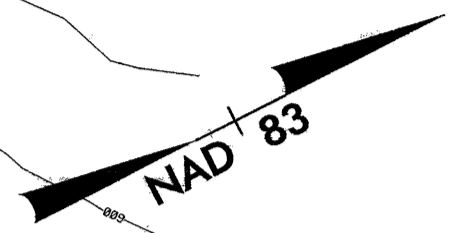
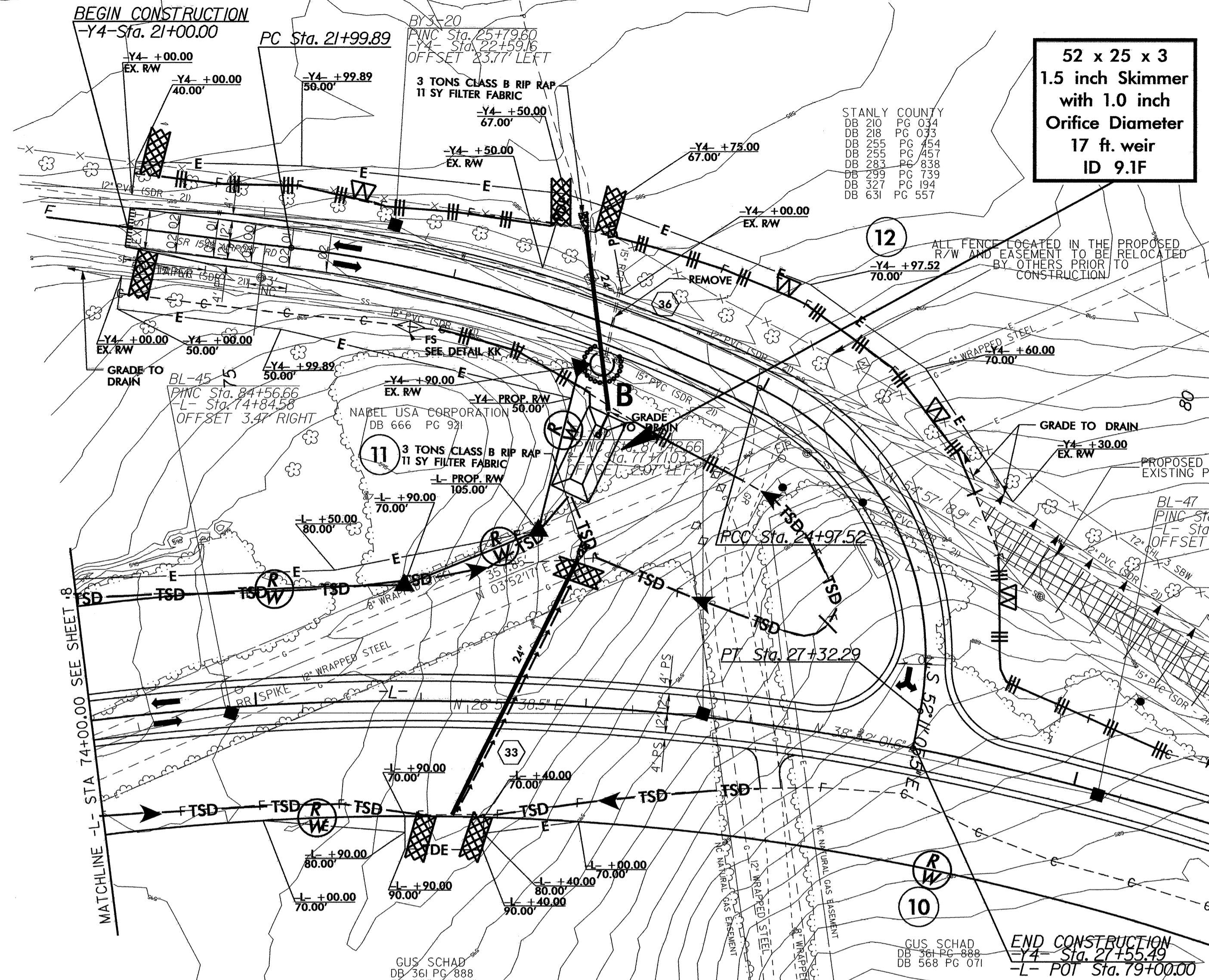


NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 9

PROJECT REFERENCE NO. U-3300B	SHEET NO. EC-II/CONST.9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SEE SHEET I3 FOR -L- PROFILE
SEE SHEET I6 FOR -Y4- PROFILE



-L-		-Y4-	
PIs Sta 70+02.18	PI Sta 77+79.88	PIs Sta 84+82.35	PI Sta 23+50.08
Os = 5' 00' 48.2"	Δ = 46' 19' 13.1" (RT)	Os = 5' 00' 48.2"	Δ = 18' 56' 53.2" (RT)
Ls = 280.00'	D = 3' 34' 51.6"	Ls = 280.00'	D = 6' 21' 58.3"
LT = 186.74'	L = 1,293.51'	LT = 186.74'	L = 297.64'
ST = 93.40'	T = 684.44'	ST = 93.40'	T = 150.19'
	R = 1,600.00'		R = 900.00'

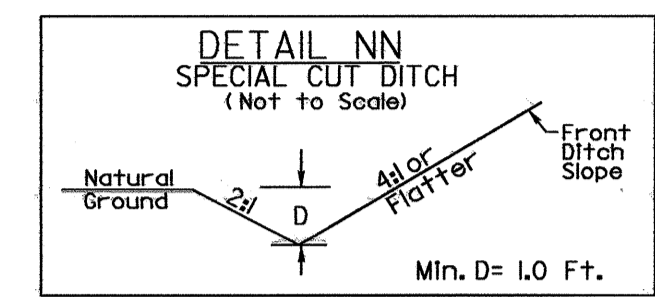
-L- Sta. 87+38.94
END STATE PROJECT U-3300B

8/17/99

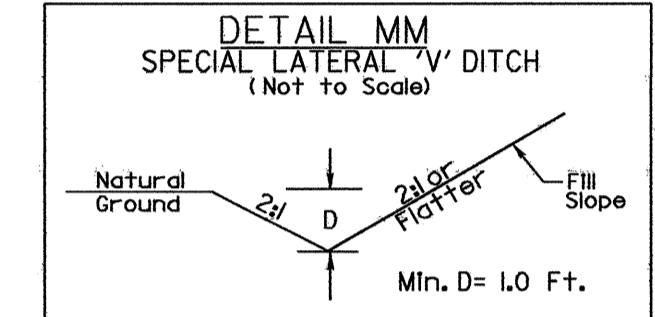
M 55°22'49" N
09°11'11" E

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.



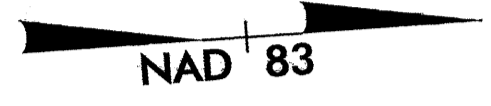
FROM -Y3- STA. 11+00 TO STA. 12+50 LT.
FROM -Y3- STA. 14+00 LT. TO -Y4- STA. 11+50 RT.
FROM -Y3- STA. 12+50 TO STA. 13+50 RT.



FROM -Y3- STA. 10+76 TO STA. 12+00 RT.
FROM -Y3- STA. 13+50 TO STA. 14+74 RT.
FROM -Y4- STA. 11+50 TO STA. 12+50 RT.

PROJECT REFERENCE NO. U-3300B	SHEET NO. EC-12/CONST.10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

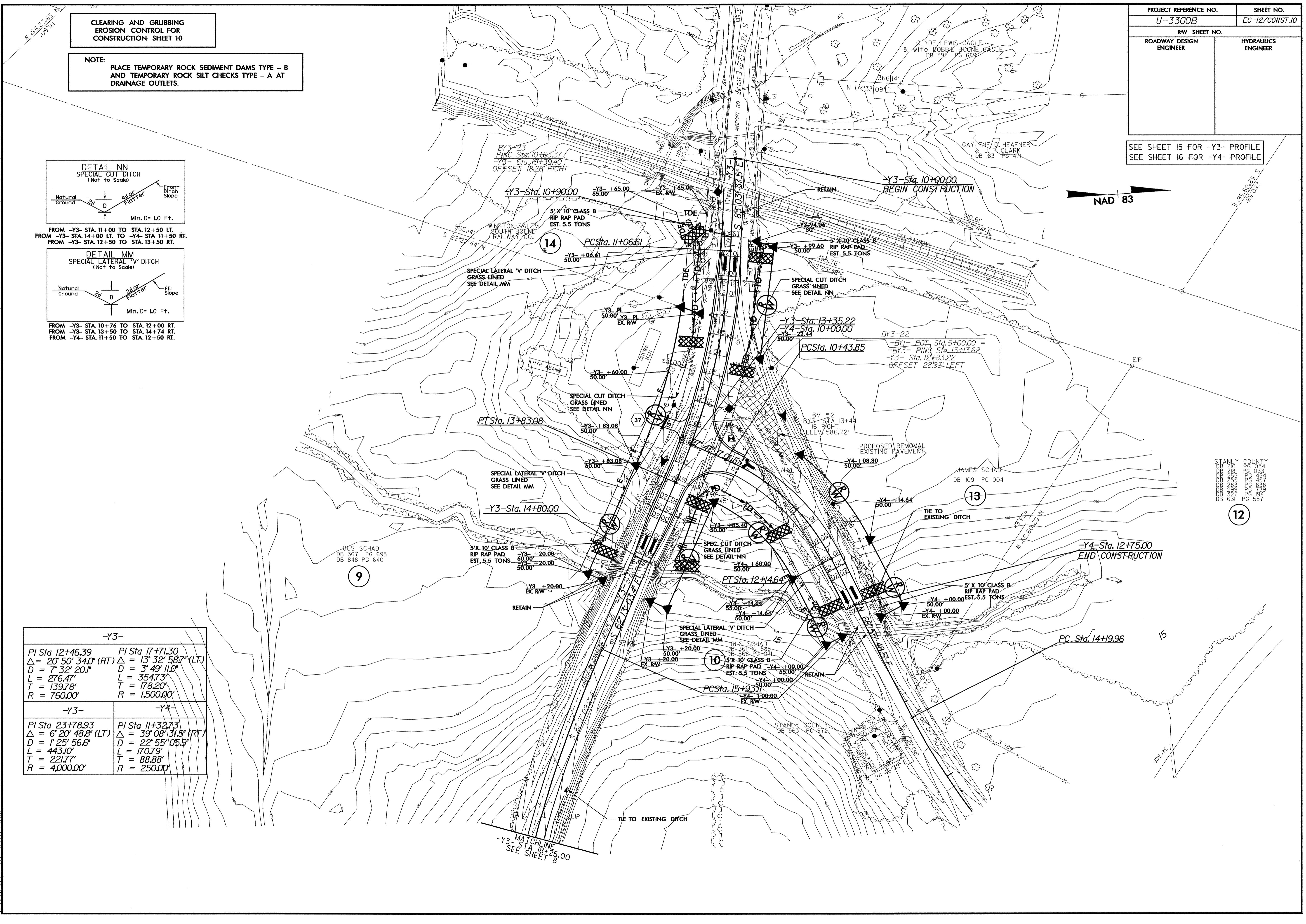
SEE SHEET 15 FOR -Y3- PROFILE
SEE SHEET 16 FOR -Y4- PROFILE



-Y3-	
PI Sta 12+46.39	PI Sta 17+71.30
$\Delta = 20^\circ 50' 34.0''$ (RT)	$\Delta = 13^\circ 32' 58.7''$ (LT)
D = 7' 32" 20.1"	D = 3' 49" 11.0"
L = 276.47'	L = 354.73'
T = 139.78'	T = 178.20'
R = 760.00'	R = 1500.00'

-Y3-	-Y4-
PI Sta 23+78.93	PI Sta 11+32.73
$\Delta = 6^\circ 20' 48.8''$ (LT)	$\Delta = 39^\circ 08' 31.5''$ (RT)
D = 1' 25" 56.6"	D = 22' 55" 05.9"
L = 443.10'	L = 170.79'
T = 221.77'	T = 88.88'
R = 4000.00'	R = 250.00'

mlaunsch AT BENV21502

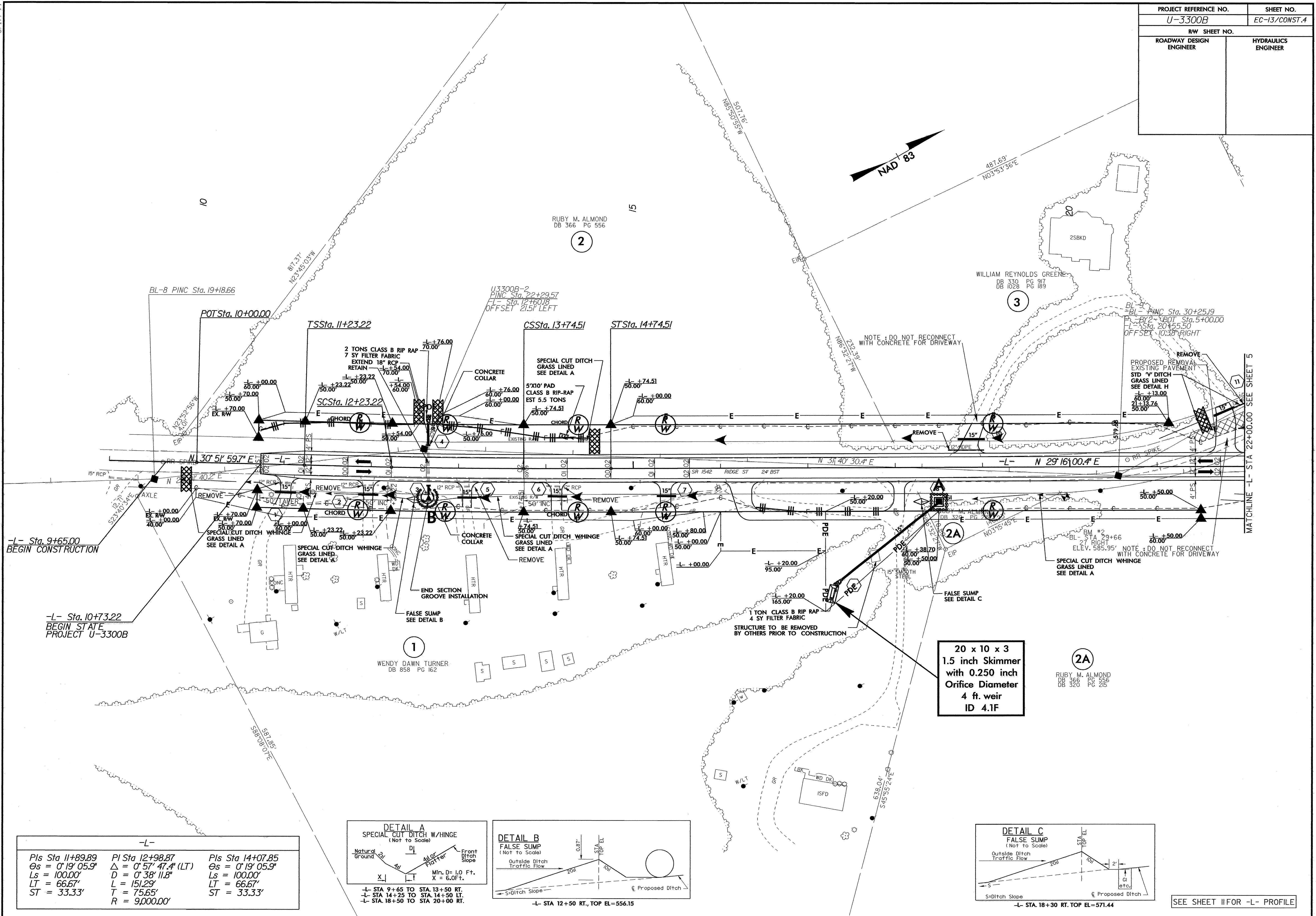


DB 210	PG 034
DB 211	PG 035
DB 212	PG 036
DB 213	PG 037
DB 214	PG 038
DB 215	PG 039
DB 216	PG 040
DB 217	PG 041
DB 218	PG 042
DB 219	PG 043
DB 220	PG 044

MATCHLINE
-Y3- STA. 18+25.00
SEE SHEET 8

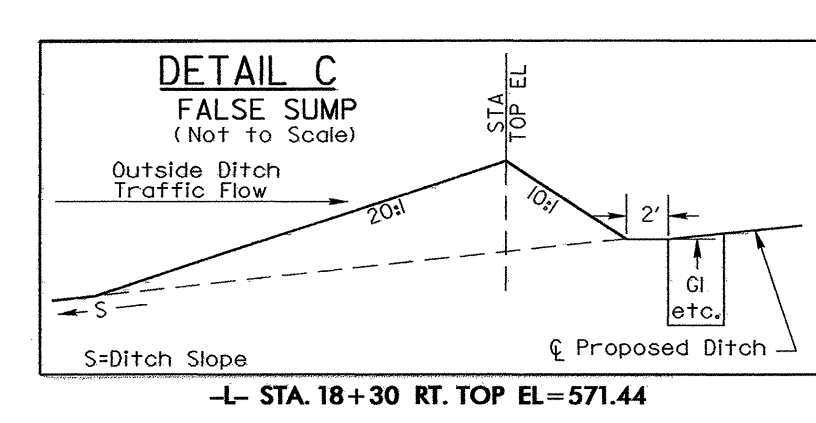
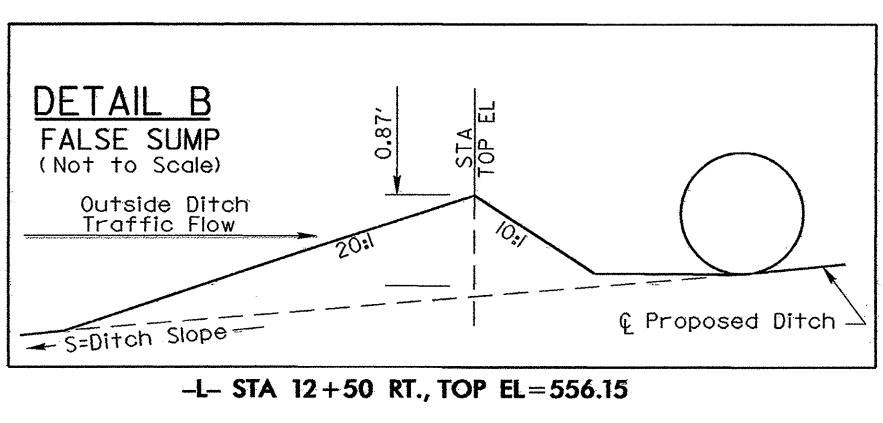
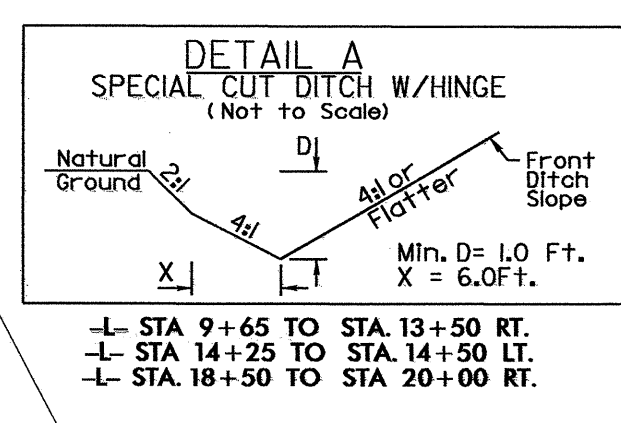
8/17/99

PROJECT REFERENCE NO. U-3300B	SHEET NO. EC-13/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



-L-

Pls Sta 11+89.89	Pl Sta 12+98.87	Pls Sta 14+07.85
$\Theta_s = 0^\circ 19' 05.9''$	$\Delta = 0^\circ 57' 47.4''$ (LT)	$\Theta_s = 0^\circ 19' 05.9''$
Ls = 100.00'	D = 0' 38' 11.8"	Ls = 100.00'
LT = 66.67'	L = 151.29'	LT = 66.67'
ST = 33.33'	T = 75.65'	ST = 33.33'
	R = 9,000.00'	

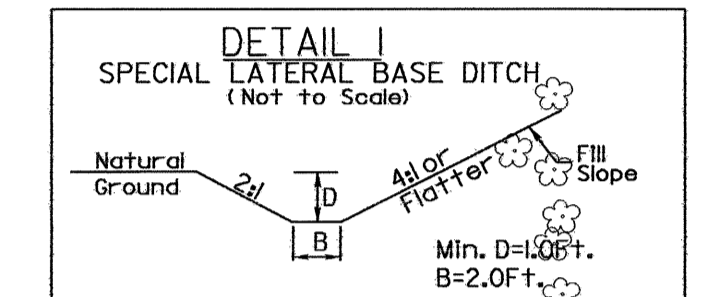
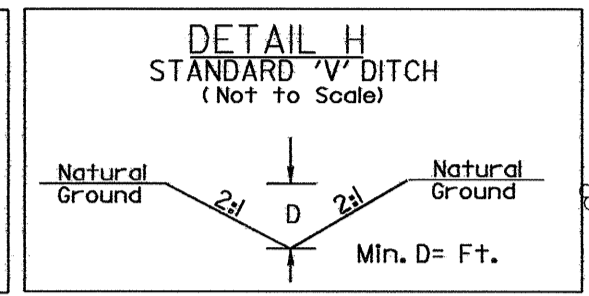
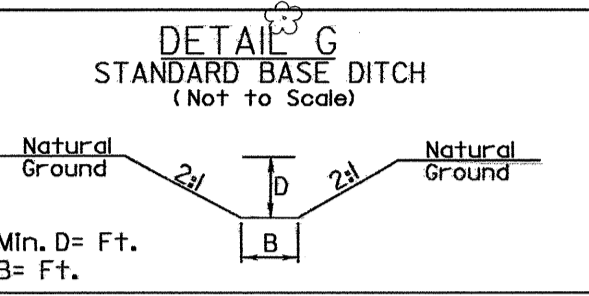
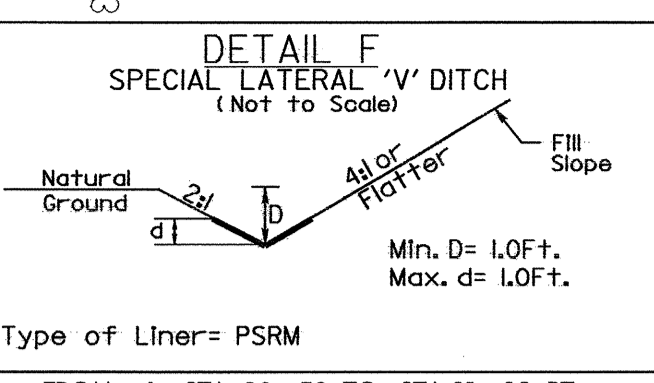
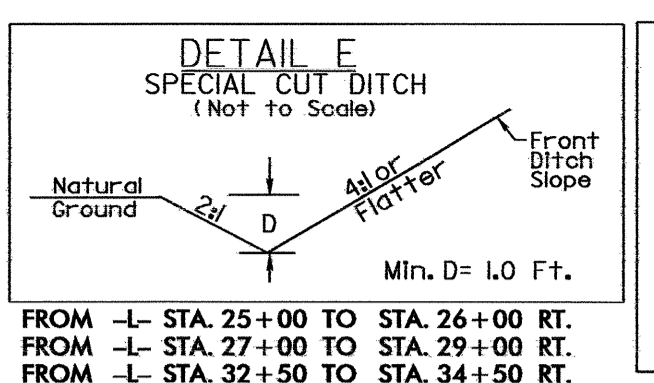
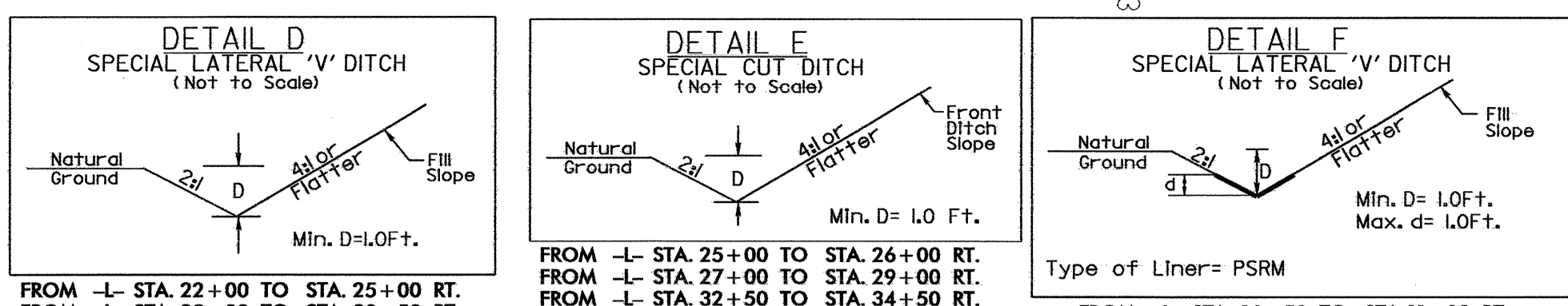


20 x 10 x 3
1.5 inch Skimmer
with 0.250 inch
Orifice Diameter
4 ft. weir
ID 4.1F

2A
RUBY M. ALMOND
DB 366 PG 556
DB 320 PG 215

SEE SHEET 11 FOR -L- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
U-3300B	EC-14/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

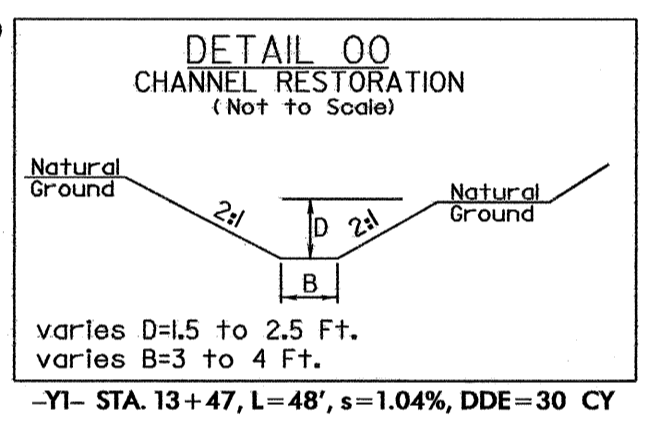


28 x 13 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
5 ft. weir
ID 5.2Fa

46 x 22 x 3
1.5 inch Skimmer
with 0.675 inch
Orifice Diameter
14 ft. weir
ID 5.1C&G

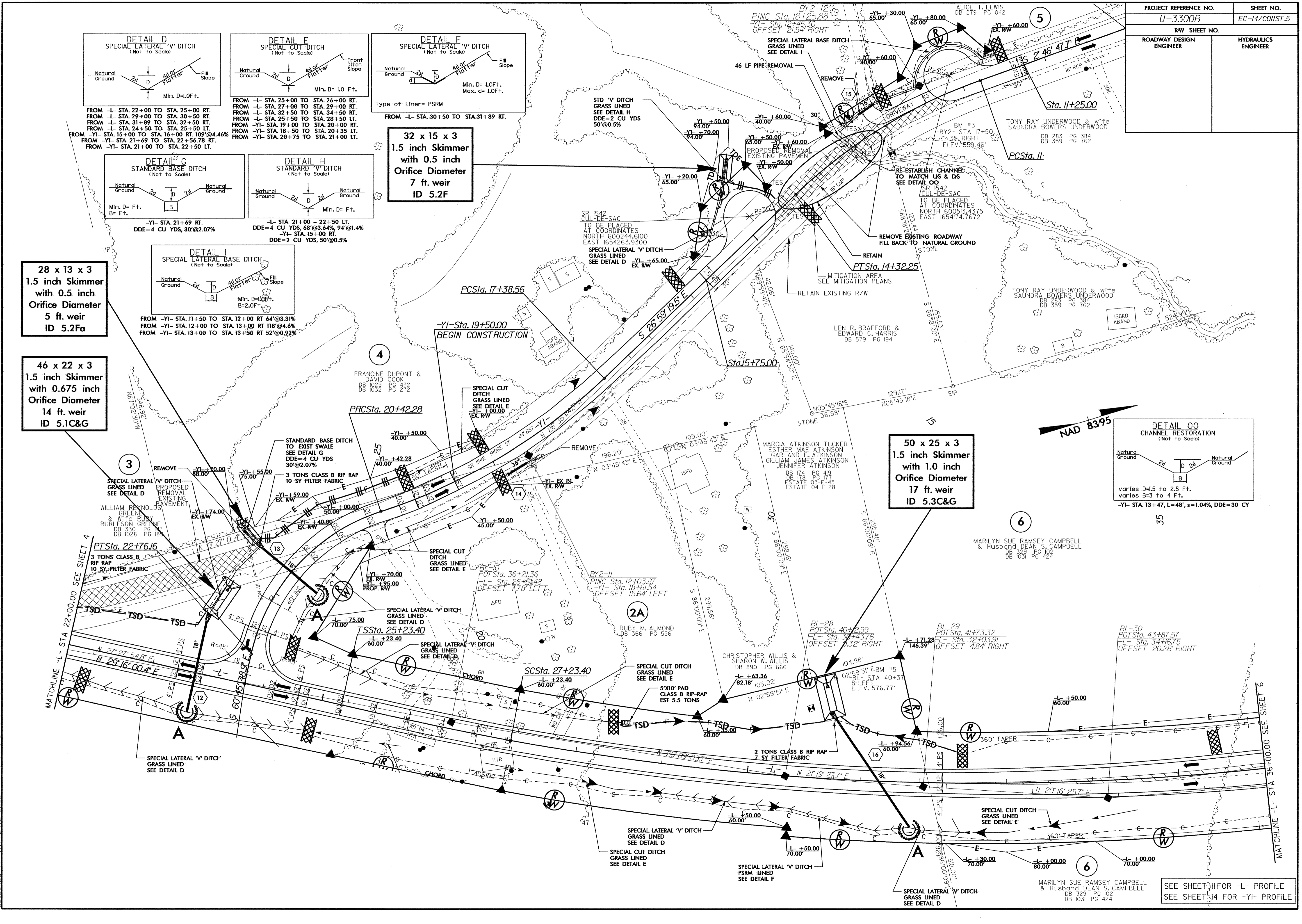
32 x 15 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
7 ft. weir
ID 5.2F

50 x 25 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
17 ft. weir
ID 5.3C&G



8/17/99
AT REV 24226

REVISIONS

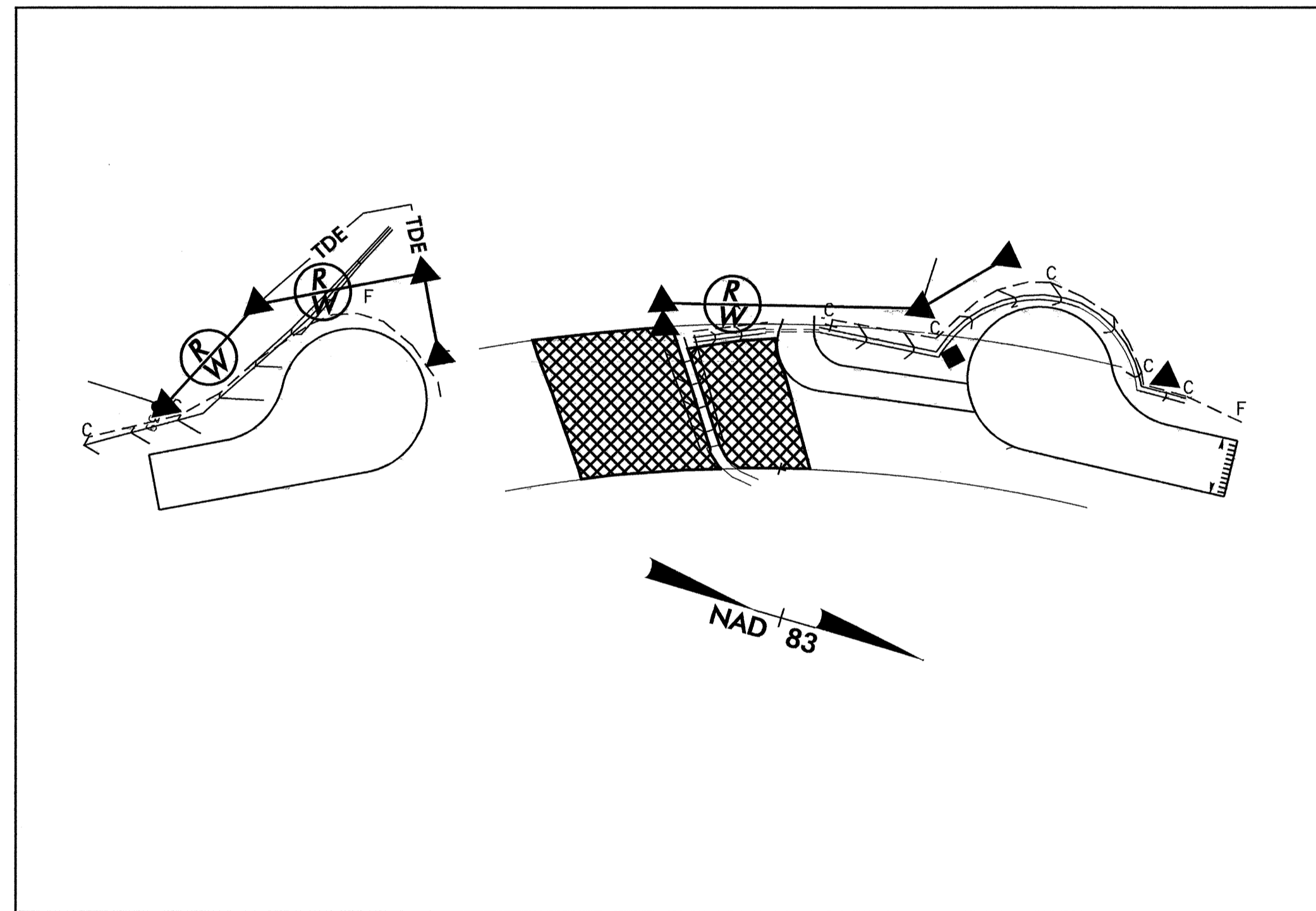


SEE SHEET 11 FOR -L- PROFILE
SEE SHEET 14 FOR -YI- PROFILE

0.12 ACRE STREAMBANK REFORESTATION

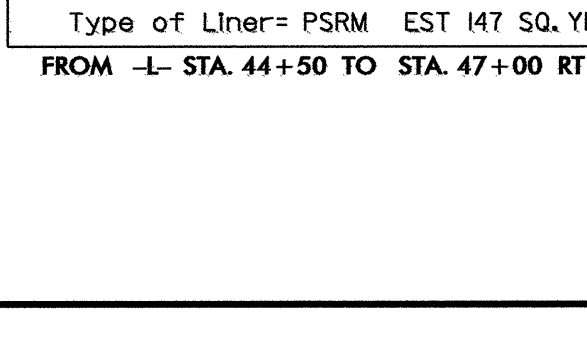
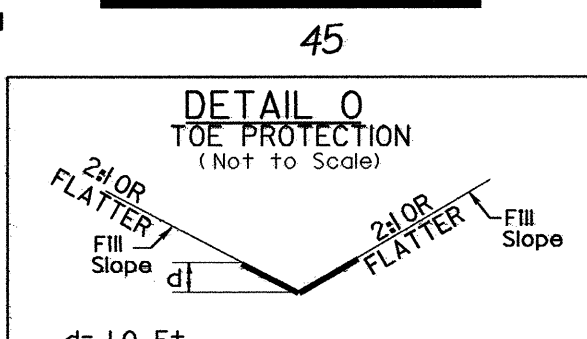
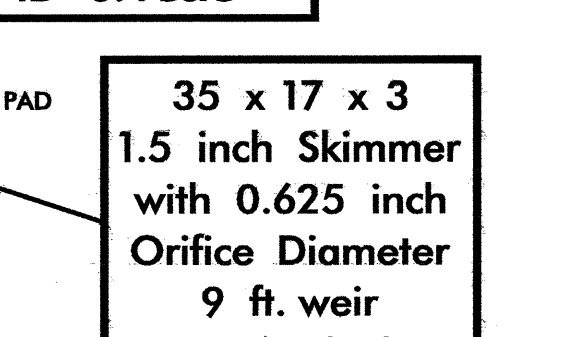
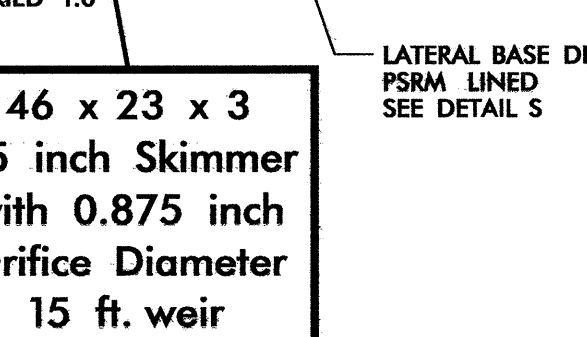
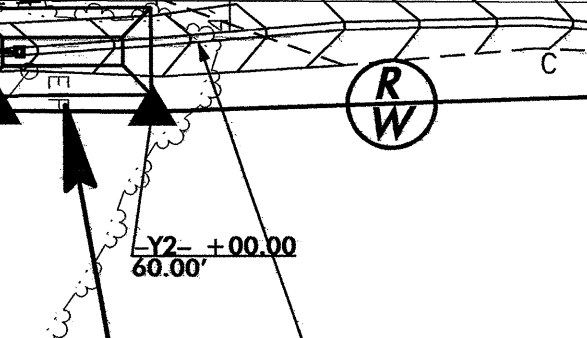
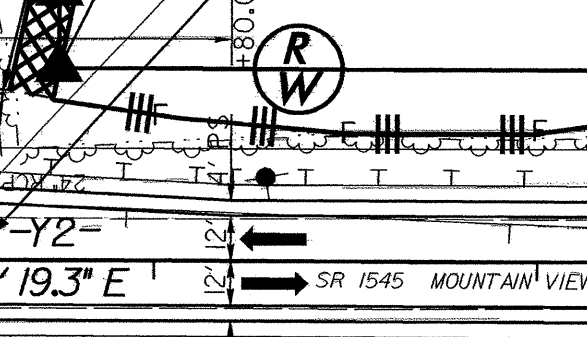
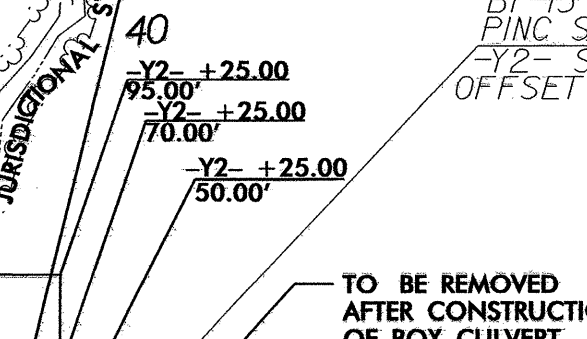
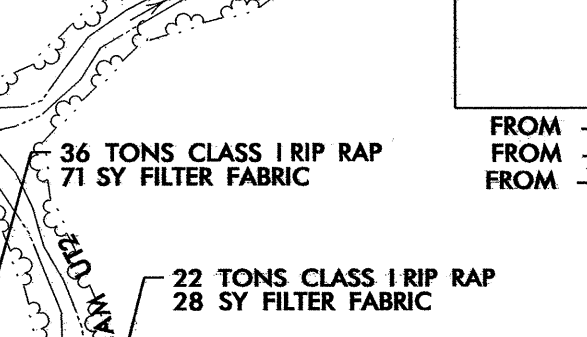
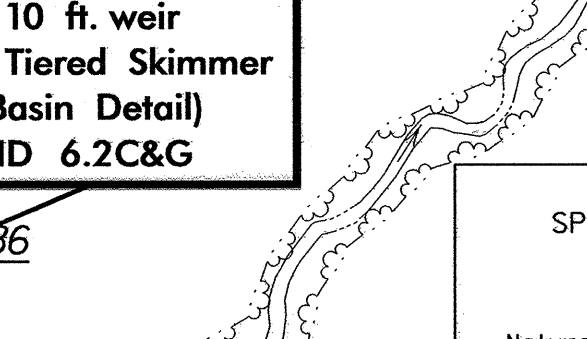
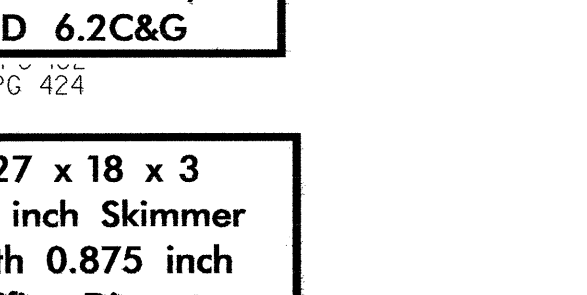
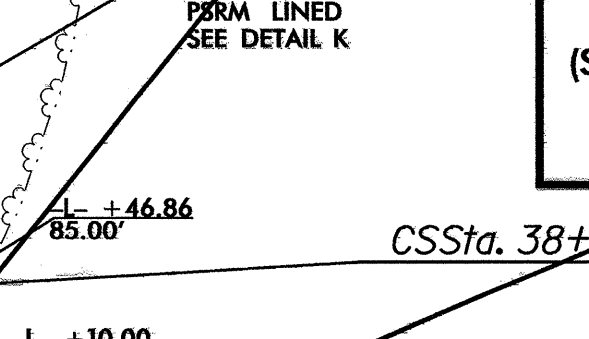
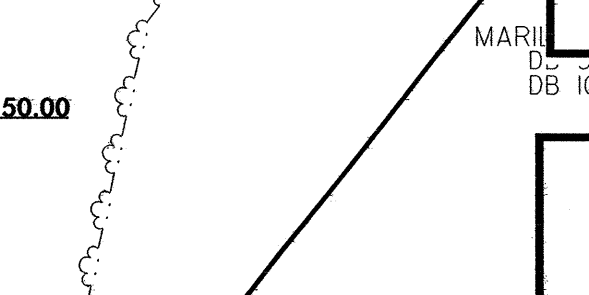
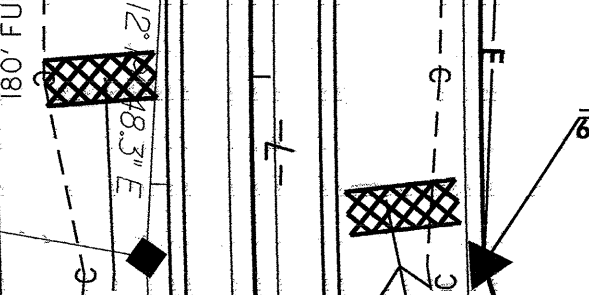
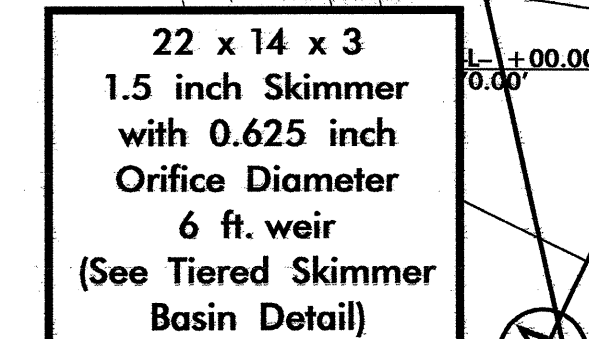
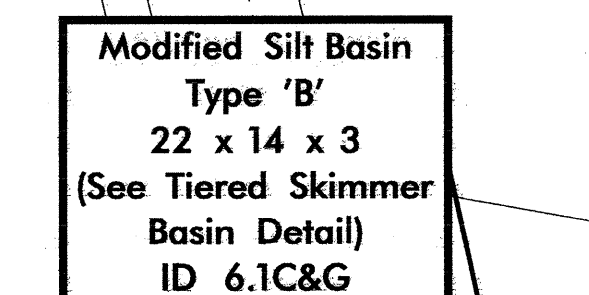
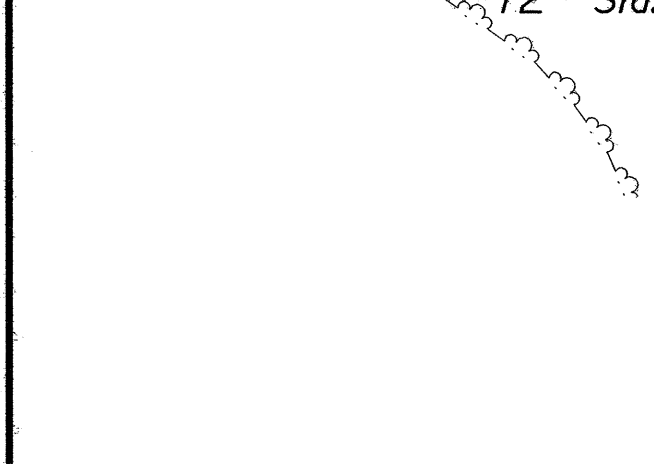
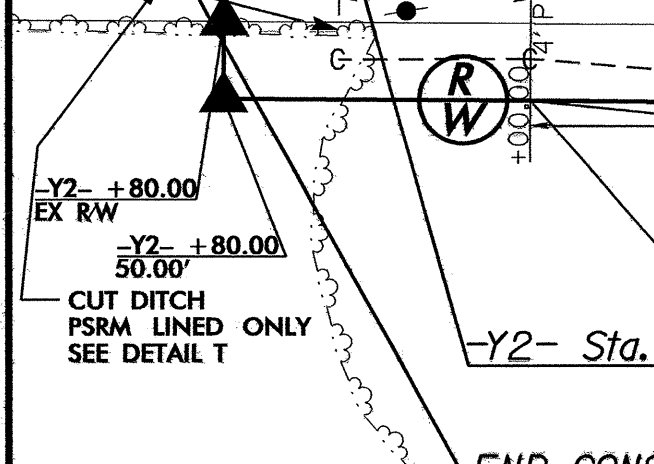
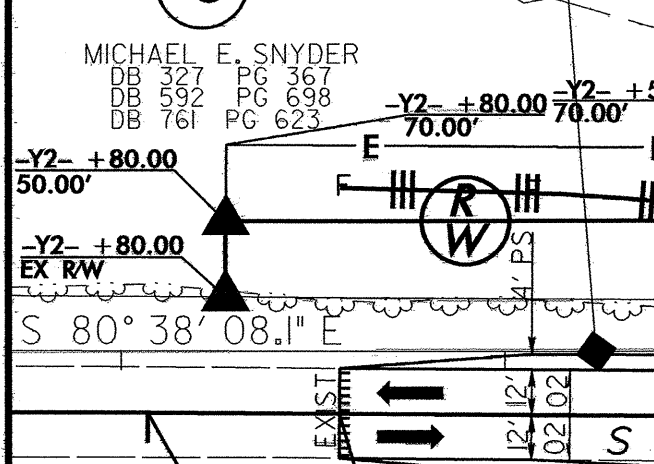
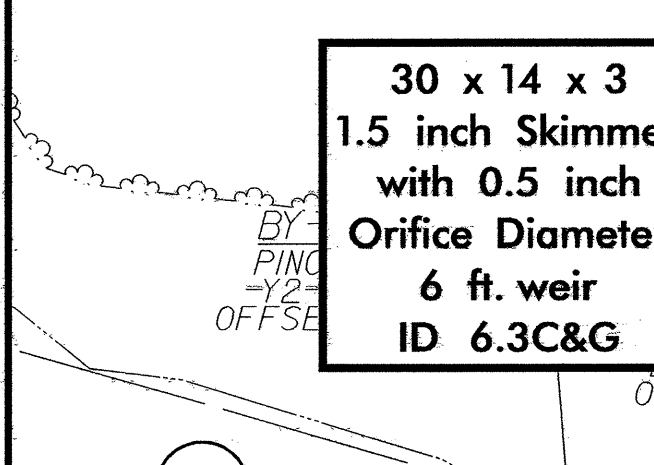
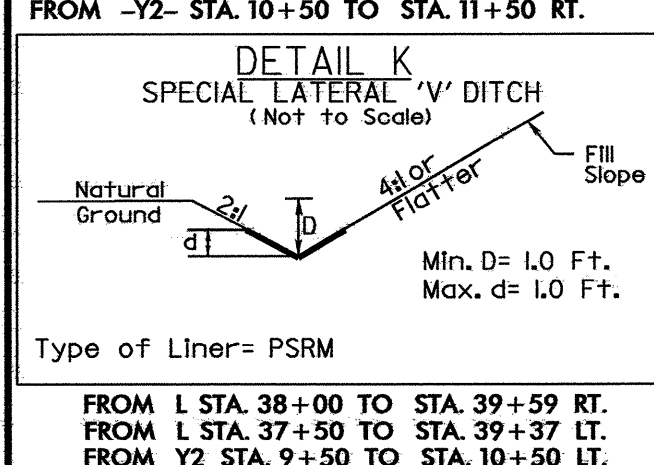
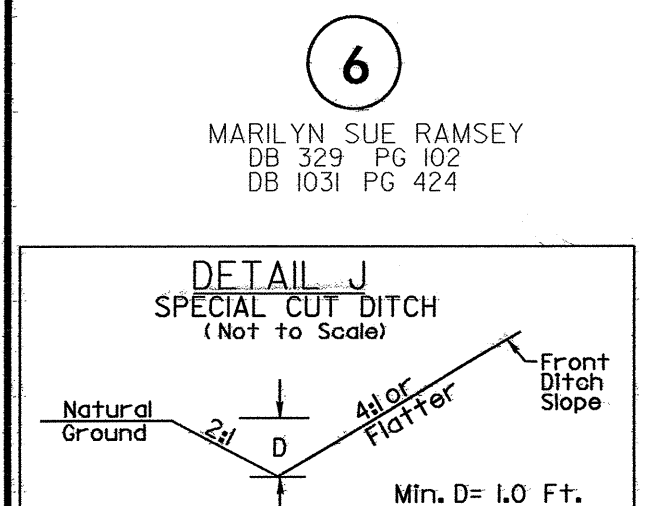
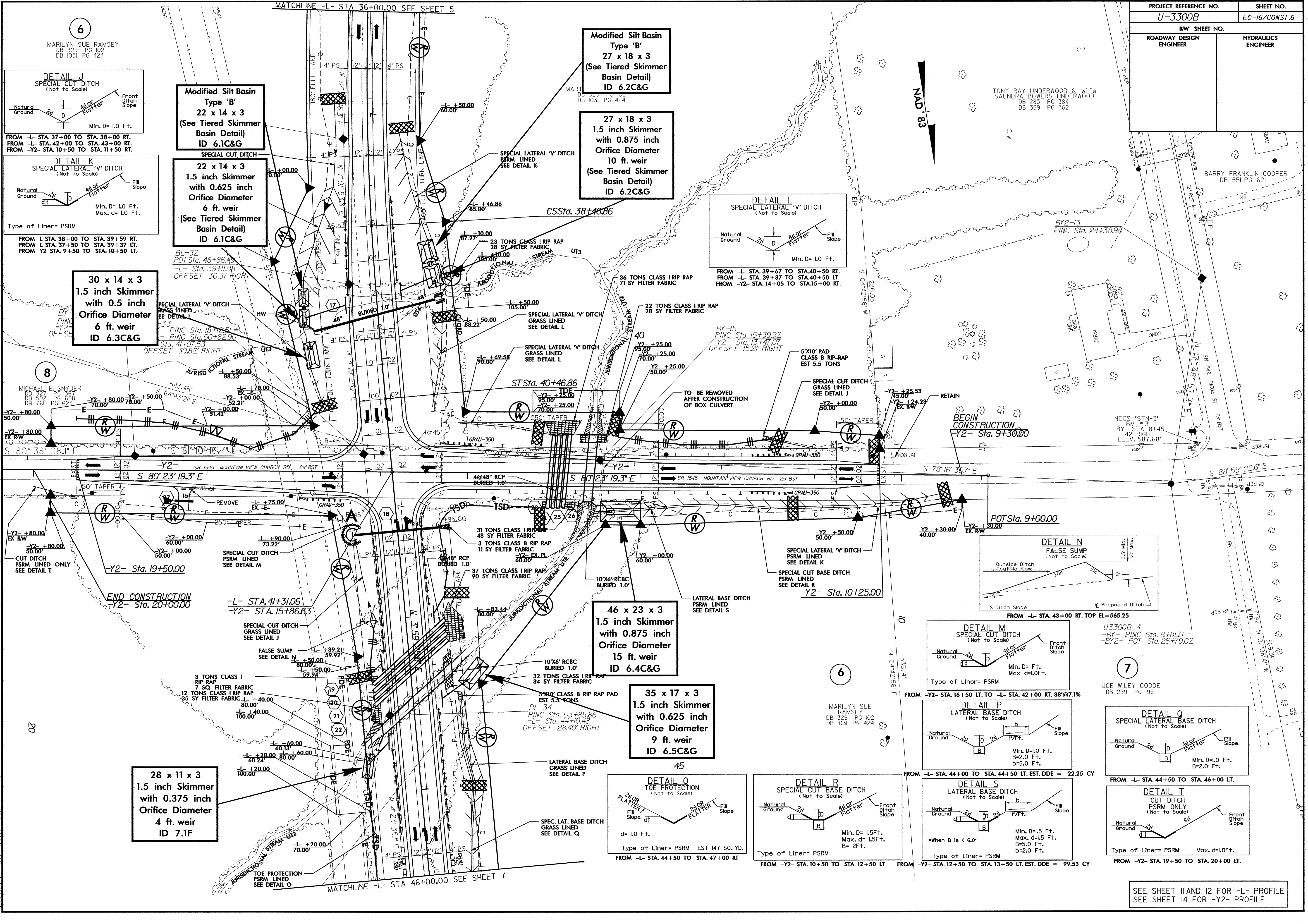
PROJECT REFERENCE NO. <i>U-3300B</i>	SHEET NO. <i>EC-15/CONST.5</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-Y1- STA 13+50



SEE RF-1, RF-2 AND PROJECT SPECIAL PROVISIONS

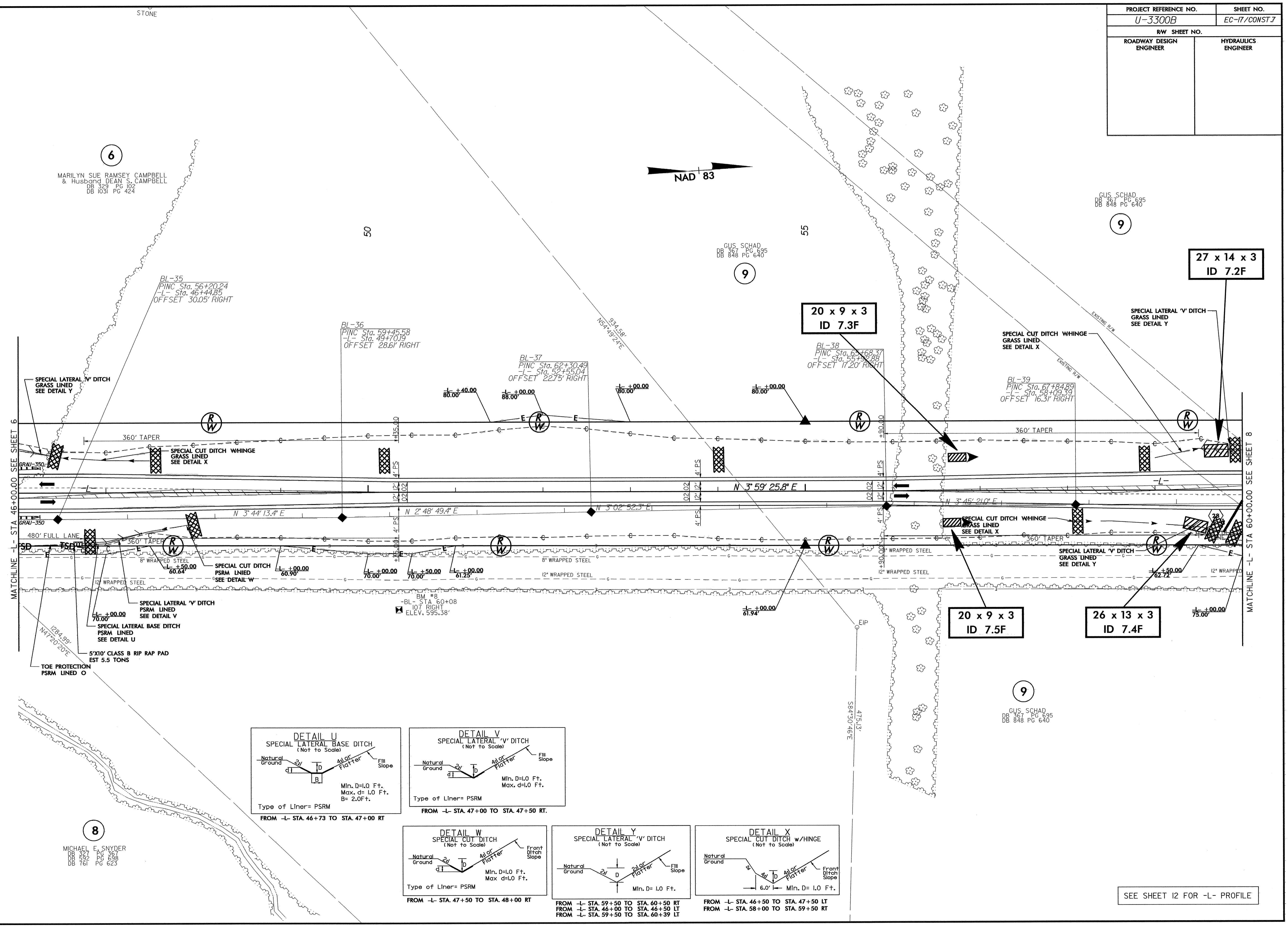
PROJECT REFERENCE NO. U-3300B	SHEET NO. EC-16/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



SEE SHEET 11 AND 12 FOR -L- PROFILE
SEE SHEET 14 FOR -Y2- PROFILE

PROJECT REFERENCE NO. U-3300B	SHEET NO. EC-17/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

8/17/99
AT-RENV21502



6
MARILYN SUE RAMSEY CAMPBELL
& Husband DEAN S. CAMPBELL
DB 329 PG 102
DB 1031 PG 424

BL-35
PINC Sta. 56+20.24
-L- Sta. 46+44.85
OFFSET 30.05' RIGHT

BL-36
PINC Sta. 59+45.58
-L- Sta. 49+70.19
OFFSET 28.61' RIGHT

BL-37
PINC Sta. 62+30.49
-L- Sta. 52+55.04
OFFSET 22.73' RIGHT

20 x 9 x 3
ID 7.3F

BL-38
PINC Sta. 62+69.31
-L- Sta. 55+22.88
OFFSET 17.20' RIGHT

BL-39
PINC Sta. 67+84.89
-L- Sta. 58+09.39
OFFSET 16.31' RIGHT

9
GUS SCHAD
DB 367 PG 695
DB 848 PG 640

27 x 14 x 3
ID 7.2F

MATCHLINE -L- STA. 46+00.00 SEE SHEET 6

MATCHLINE -L- STA. 60+00.00 SEE SHEET 8

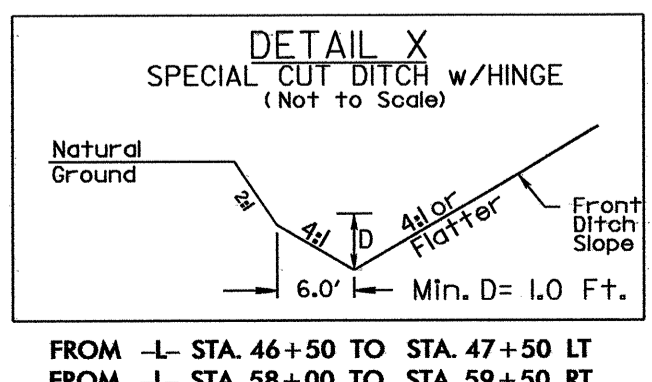
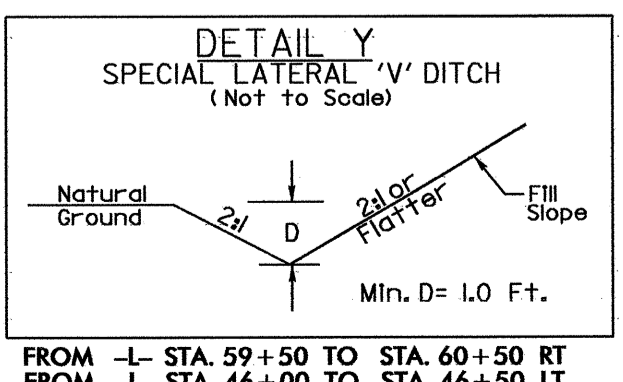
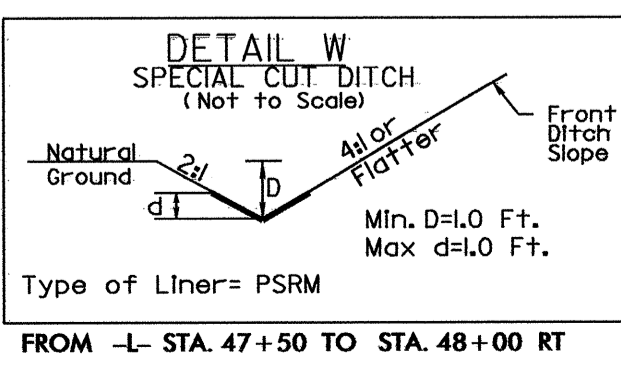
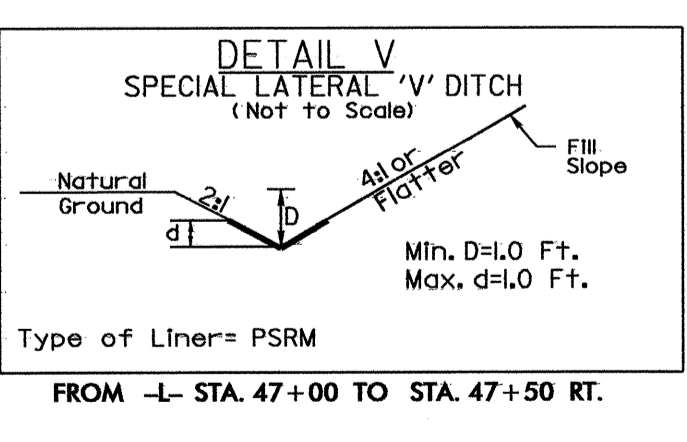
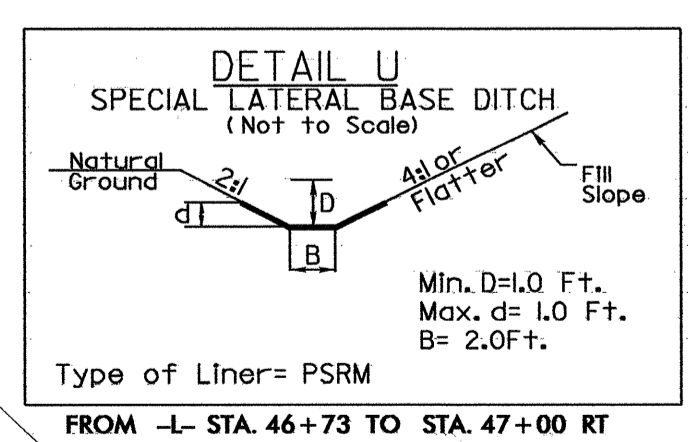
SPECIAL LATERAL 'V' DITCH
PSRM LINED
SEE DETAIL V

SPECIAL LATERAL BASE DITCH
PSRM LINED
SEE DETAIL U

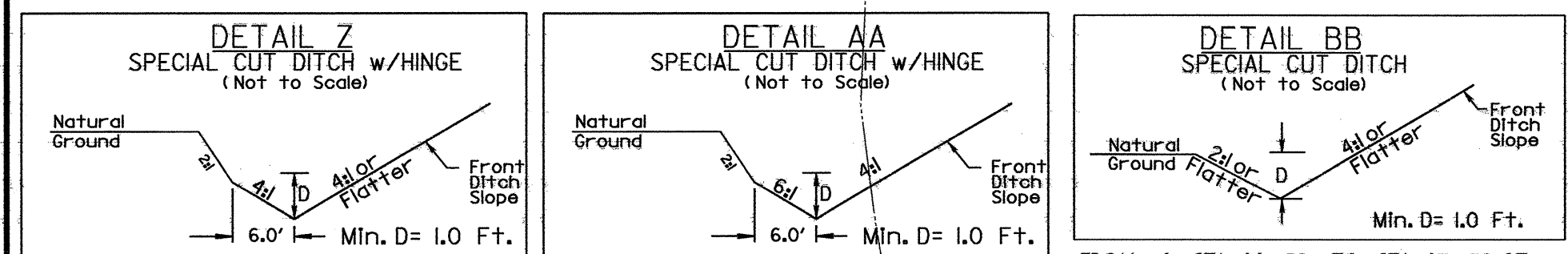
5'x10' CLASS B RIP RAP PAD
EST 5.5 TONS

TOE PROTECTION
PSRM LINED O

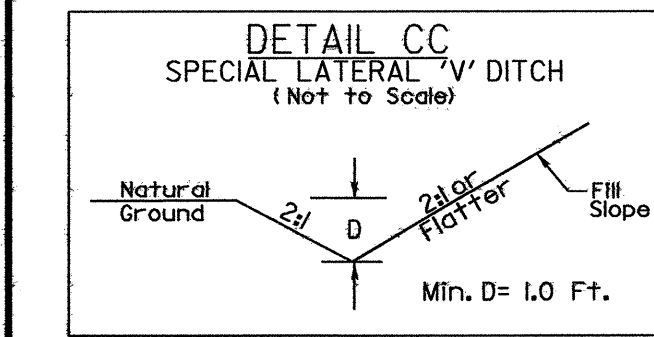
8
MICHAEL E. SNYDER
DB 327 PG 367
DB 592 PG 698
DB 761 PG 623



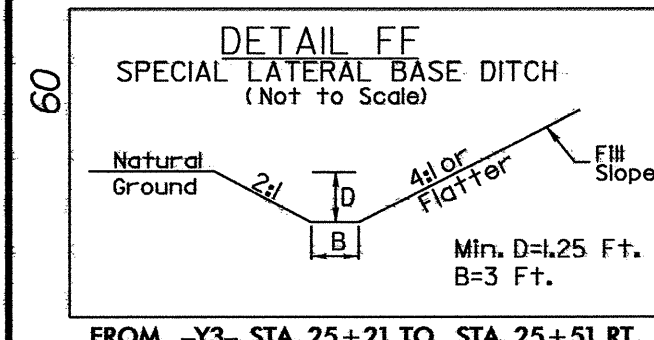
SEE SHEET 12 FOR -L- PROFILE



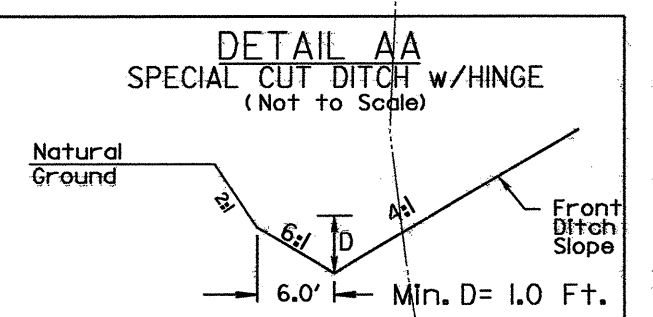
FROM -L- STA. 60+50 TO STA. 63+50 RT
FROM -L- STA. 66+50 TO STA. 68+17.44 LT



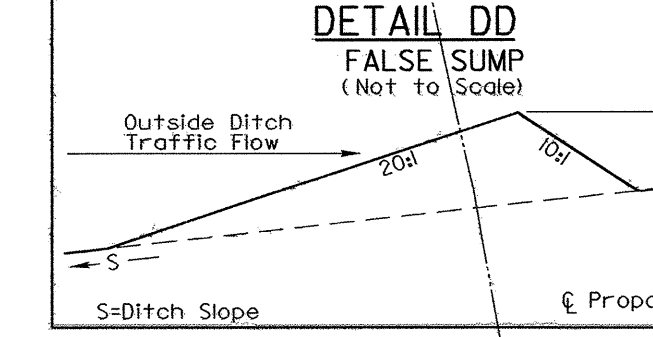
FROM -L- STA. 63+50 TO STA. 64+06.54 RT
FROM -L- STA. 63+00 TO STA. 63+50 LT
FROM -L- STA. 64+00 LT TO -Y3- STA. 19+50 RT
FROM -Y3- STA. 25+50 TO STA. 26+06 LT
FROM -Y3- STA. 25+51 TO STA. 26+00 RT



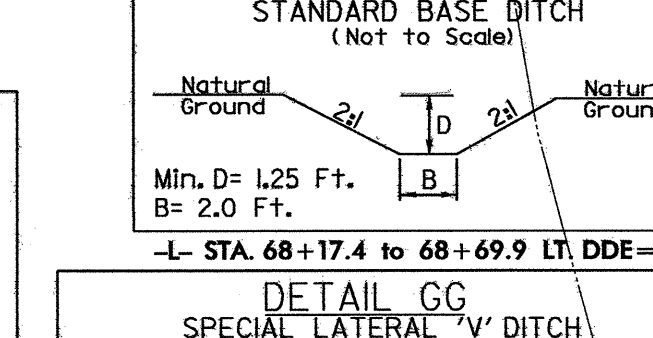
FROM -Y3- STA. 25+21 TO STA. 25+51 RT.
GUS. SCHAD
DB 367 PG 695
DB 848 PG 640



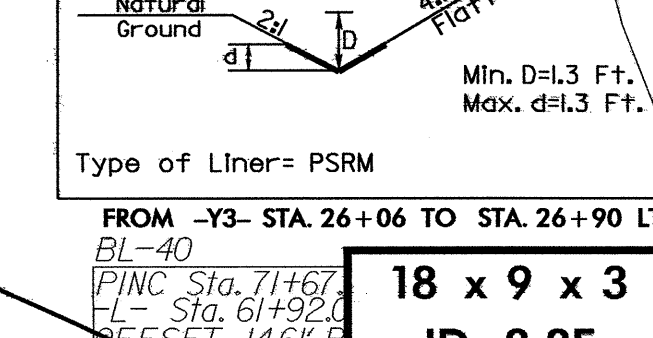
FROM -L- STA. 61+50 TO STA. 63+00 LT



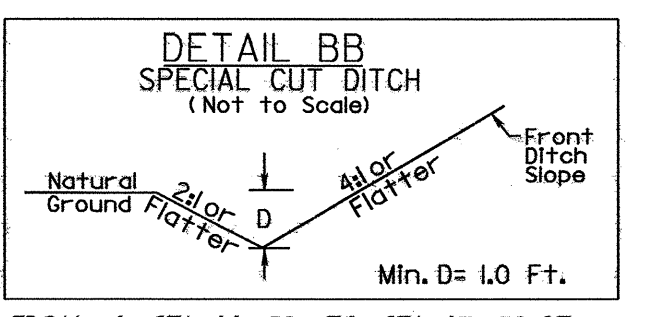
FROM -L- STA. 62+00 RT, TOP EL.=589.38



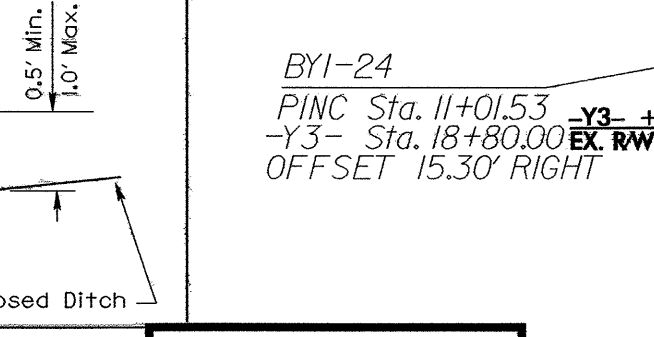
-L- STA. 68+17.4 to 68+69.9 LT, DDE=16 CY



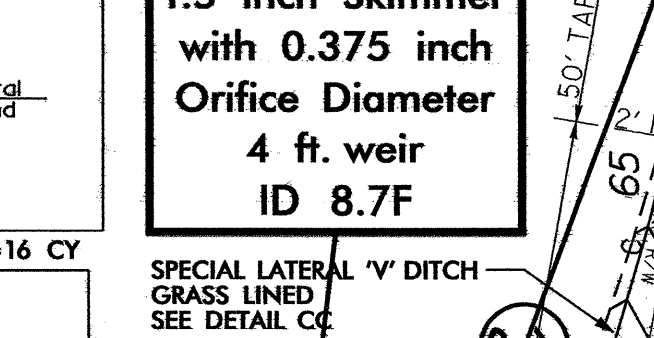
FROM -Y3- STA. 26+06 TO STA. 26+90 LT.
BL-40
PINC Sta. 71+67
-L- Sta. 61+92.0
OFFSET 14.61' R



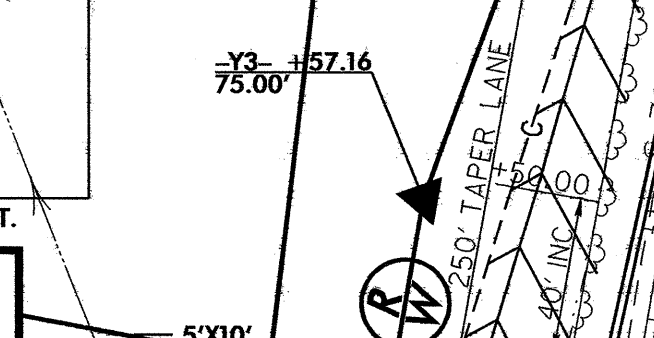
FROM -L- STA. 66+50 TO STA. 67+50 RT
FROM -L- STA. 69+00 TO STA. 70+50 RT
FROM -Y3- STA. 24+50 TO STA. 25+50 LT



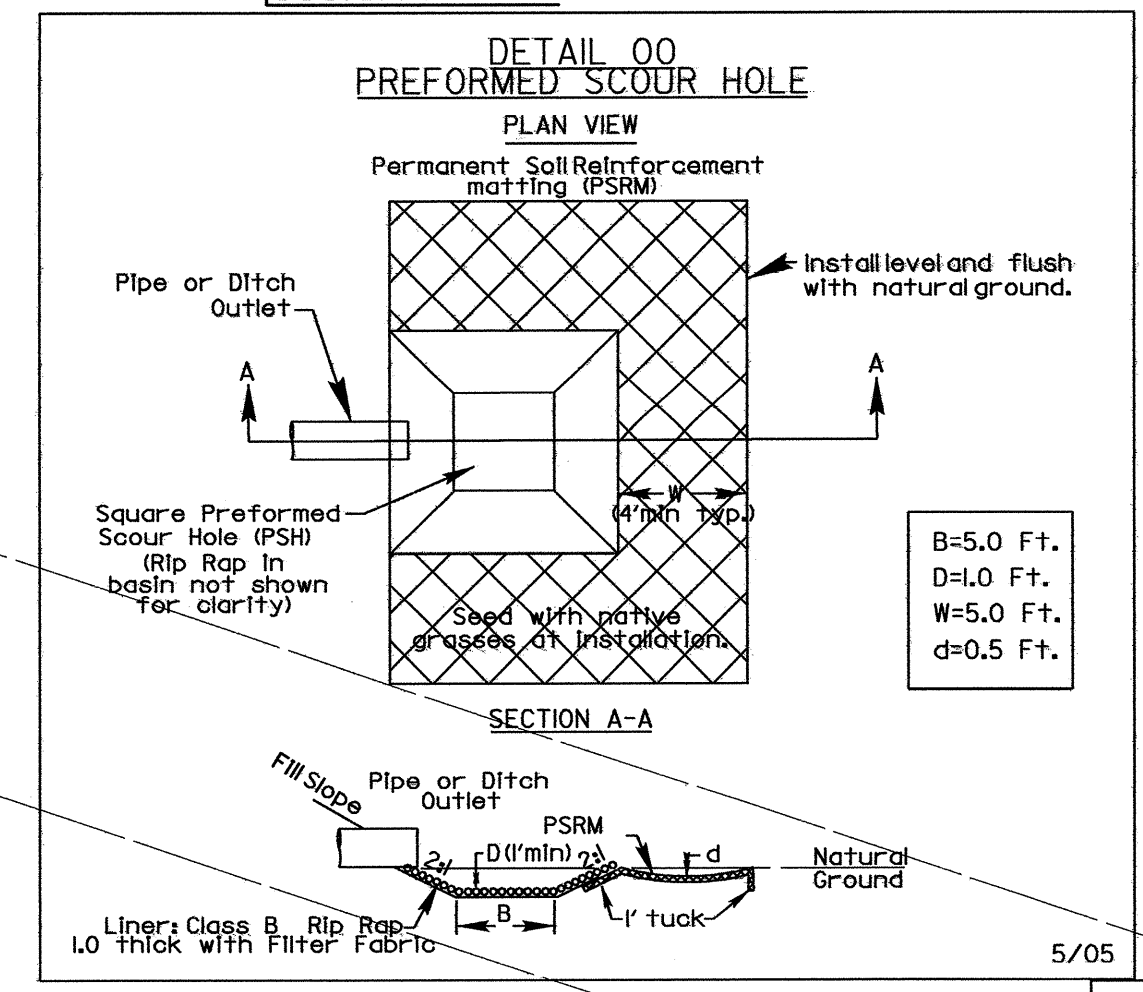
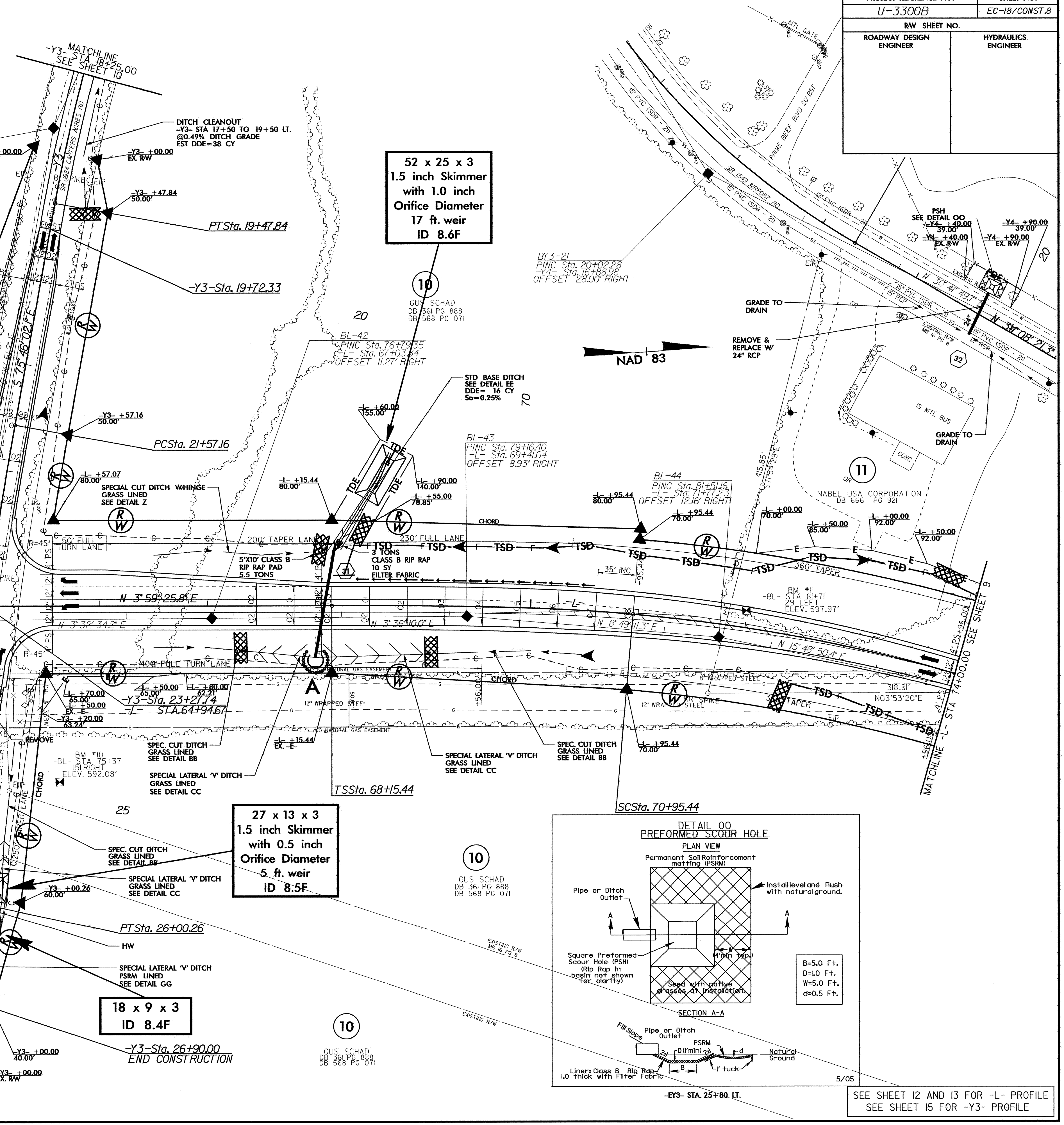
BY1-24
PINC Sta. 11+01.53
-Y3- Sta. 18+80.00 EX. RW
OFFSET 15.30' RIGHT



SPECIAL LATERAL 'V' DITCH
GRASS LINED
SEE DETAIL CC



FROM -Y3- STA. 26+06 TO STA. 26+90 LT.
BL-40
PINC Sta. 71+67
-L- Sta. 61+92.0
OFFSET 14.61' R



SEE SHEET 12 AND 13 FOR -L- PROFILE
SEE SHEET 15 FOR -Y3- PROFILE

8/17/99 AT: RENV221502

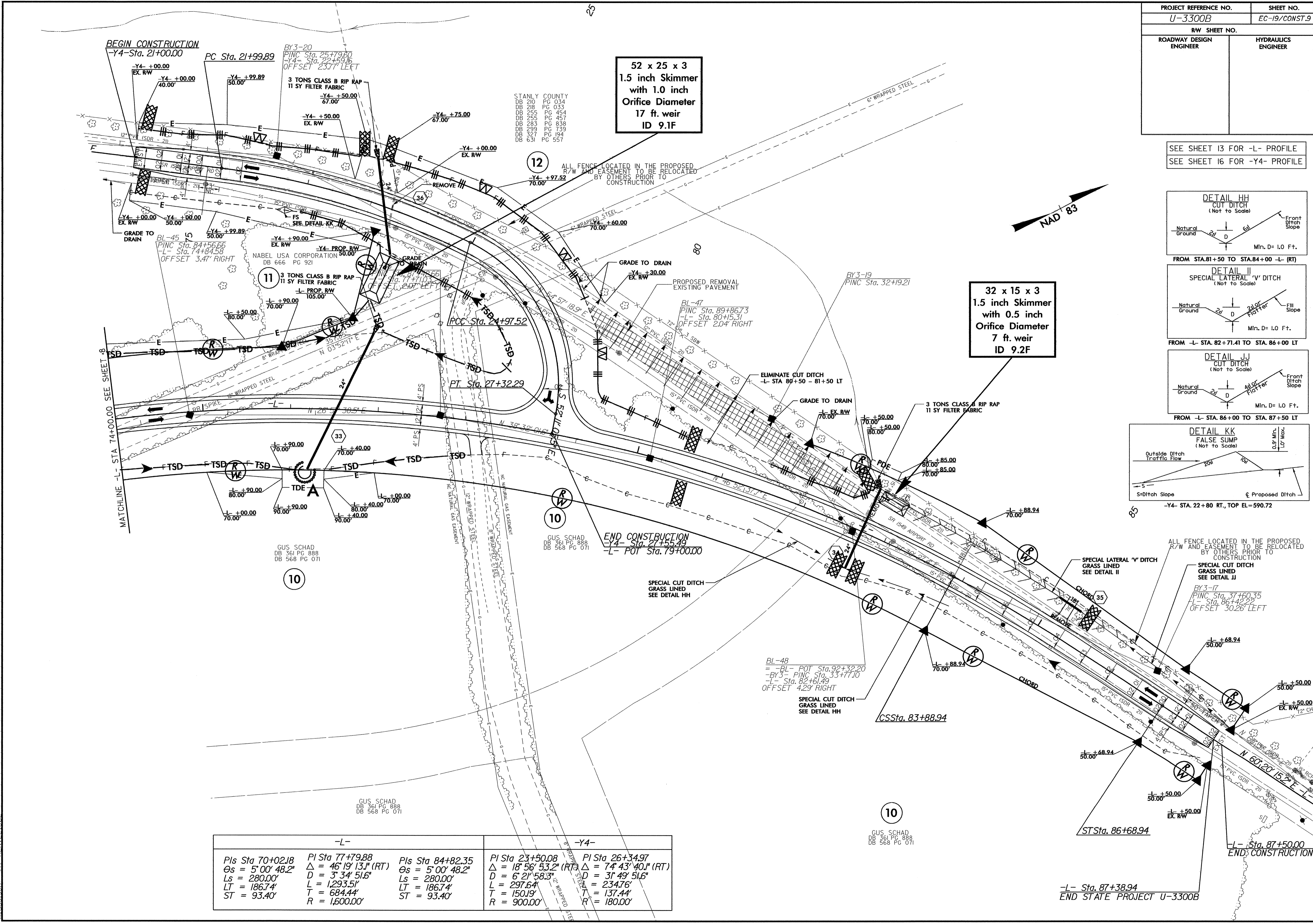
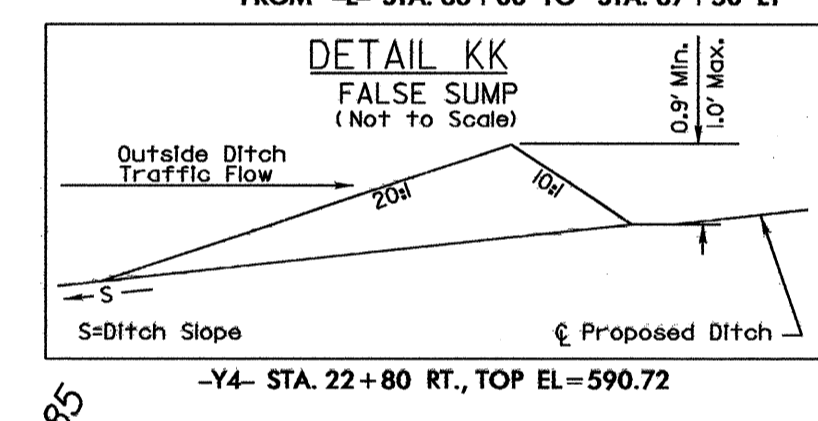
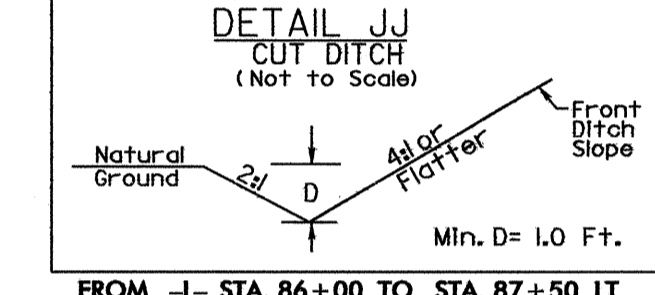
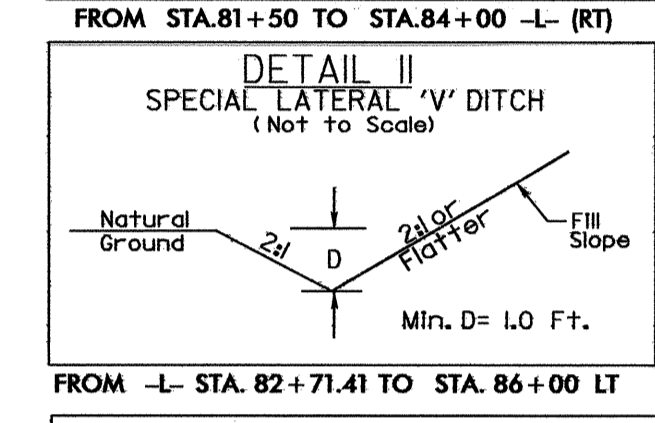
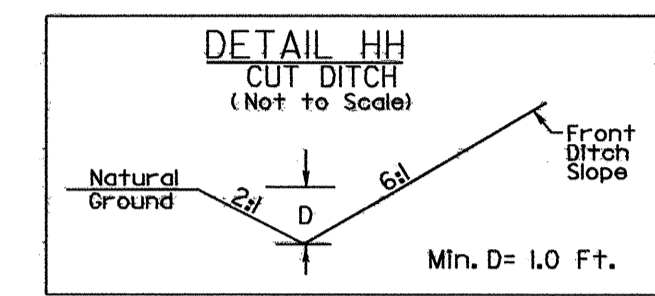
MICHAEL E. SNYDER
DB 327 PG 361
DB 592 PG 698
DB 761 PG 623

GUS. SCHAD
DB 361 PG 888
DB 568 PG 071

8/17/99

PROJECT REFERENCE NO. U-3300B	SHEET NO. EC-19/CONST.9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SEE SHEET 13 FOR -L- PROFILE
SEE SHEET 16 FOR -Y4- PROFILE



REVISIONS

-L-			-Y4-		
PIs Sta 70+02.18	PI Sta 77+79.88	PIs Sta 84+82.35	PI Sta 23+50.08	PI Sta 26+34.97	
$\Delta = 5' 00'' 48.2''$	$\Delta = 46' 19'' 13.1'' (RT)$	$\Delta = 5' 00'' 48.2''$	$\Delta = 18' 56'' 53.2'' (RT)$	$\Delta = 74' 43'' 40.1'' (RT)$	
$Ls = 280.00'$	$D = 3' 34'' 51.6''$	$Ls = 280.00'$	$D = 6' 21'' 58.3''$	$D = 31' 49'' 51.6''$	
$LT = 186.74'$	$L = 1,293.51'$	$LT = 186.74'$	$L = 297.64'$	$L = 234.76'$	
$ST = 93.40'$	$T = 684.44'$	$ST = 93.40'$	$T = 150.19'$	$T = 137.44'$	
	$R = 1,600.00'$		$R = 900.00'$	$R = 180.00'$	

AT-RENV21502

