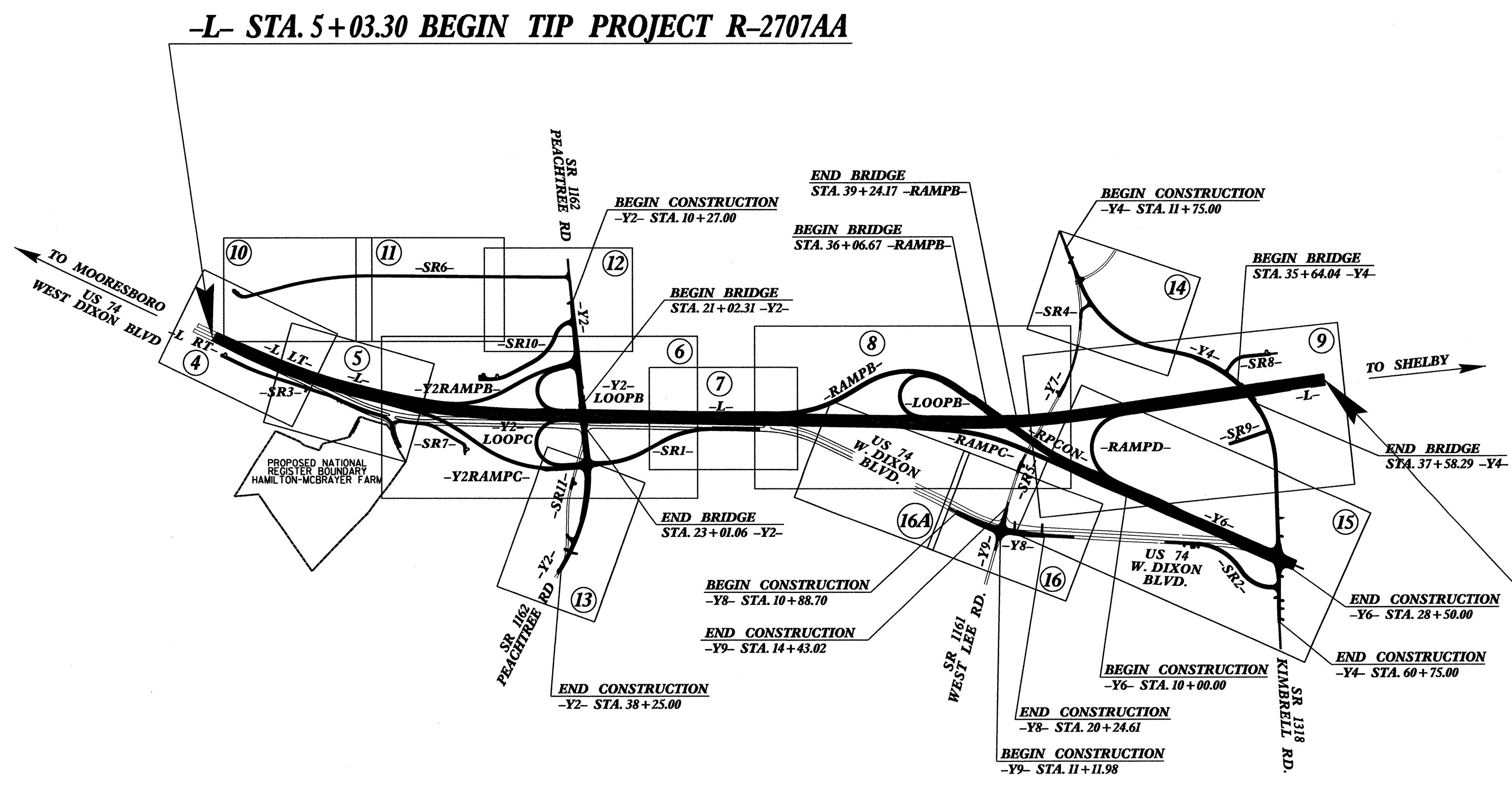
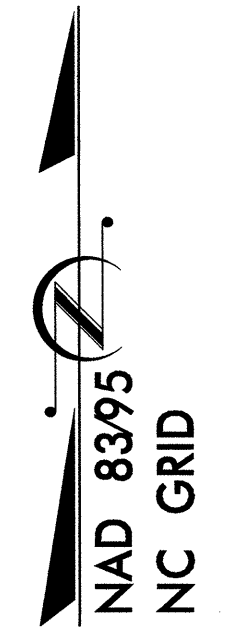


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-2707AA	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

**TIP PROJECT: R-2707AA**

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

**LOCATION: US 74 (SHELBY BYPASS) FROM WEST OF SR 1162 (PEACHTREE ROAD) TO EAST OF SR 1318 (KIMBRELL ROAD)**  
**TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND STRUCTURES**



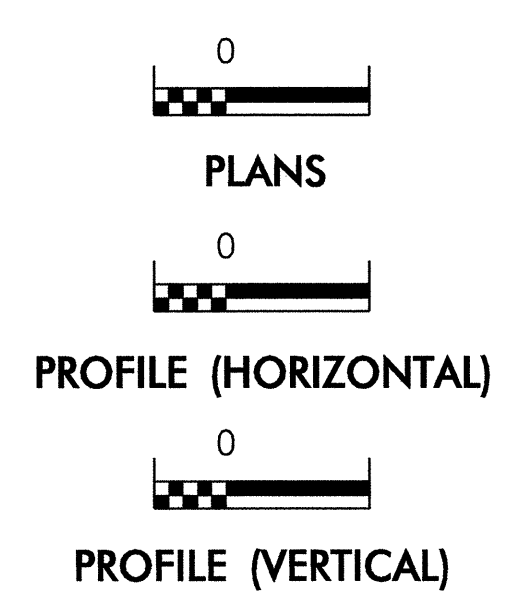
**EROSION AND SEDIMENT CONTROL MEASURES**

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	--- TSD ---
1630.05	Temporary Diversion	--- TD ---
1605.01	Temporary Silt Fence	--- TSF ---
1606.01	Special Sediment Control Fence	--- SSF ---
1622.01	Temporary Berms and Slope Drains	--- TBSD ---
1630.02	Silt Basin Type B	--- SB B ---
1633.01	Temporary Rock Silt Check Type-A	--- TRSC A ---
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	--- TRSC A PAM ---
1633.02	Temporary Rock Silt Check Type-B	--- TRSC B ---
	Wattle/Coir Fiber Wattle	--- WCFW ---
	Wattle/Coir Fiber Wattle with Polyacrylamide (PAM)	--- WCFW PAM ---
1634.01	Temporary Rock Sediment Dam Type-A	--- TRSD A ---
1634.02	Temporary Rock Sediment Dam Type-B	--- TRSD B ---
1635.01	Rock Pipe Inlet Sediment Trap Type-A	--- RPIS T A ---
1635.02	Rock Pipe Inlet Sediment Trap Type-B	--- RPIS T B ---
1630.04	Stilling Basin	--- SB ---
1630.06	Special Stilling Basin	--- SSB ---
	Rock Inlet Sediment Trap:	
1632.01	Type A	--- RIST A ---
1632.02	Type B	--- RIST B ---
1632.03	Type C	--- RIST C ---
	Skimmer Basin	--- SB SK ---
	Tiered Skimmer Basin	--- TSB SK ---
	Infiltration Basin	--- IB ---

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

**STA. 119+00.00 -L- END TIP PROJECT R-2707AA**  
**STA. 119+00.00 -L- BEG. TIP PROJECT R-2707AB**

**GRAPHIC SCALE**



ROADSIDE ENVIRONMENTAL UNIT  
DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

**THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.**

Prepared In the Office of:  
**ROADSIDE ENVIRONMENTAL UNIT**  
1 South Wilmington St.  
Raleigh, NC 27611  
**2012 STANDARD SPECIFICATIONS**

Roadway Standard Drawings

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

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Baffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

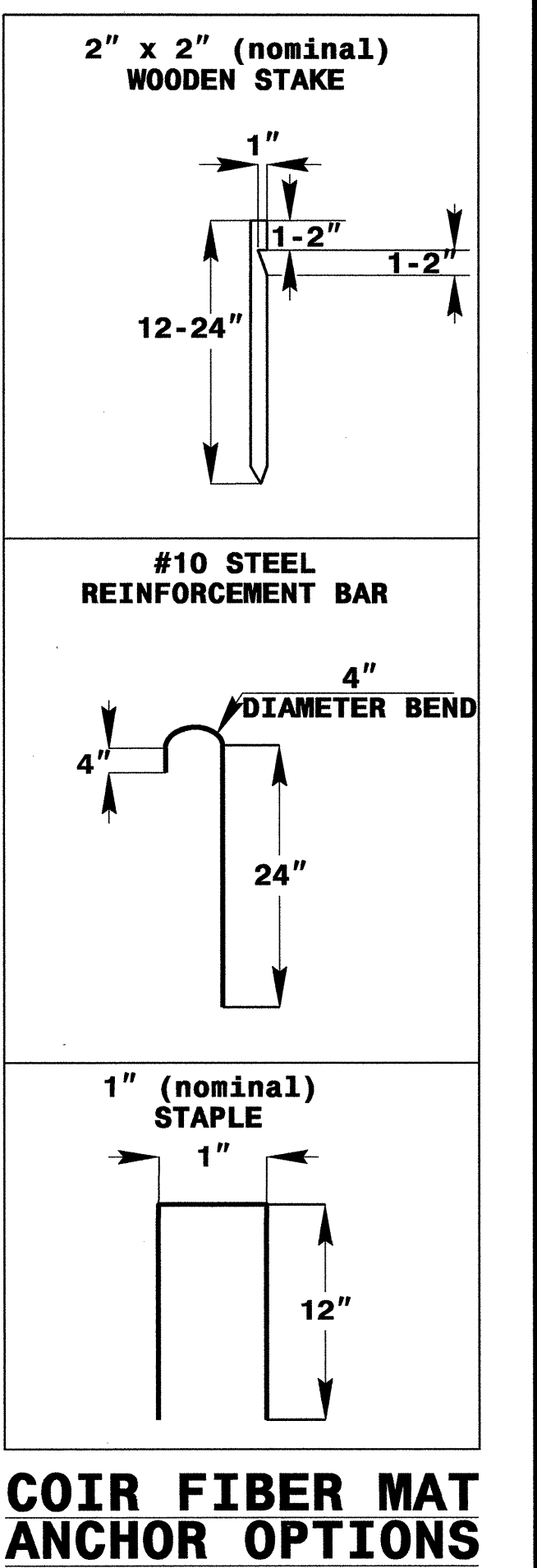
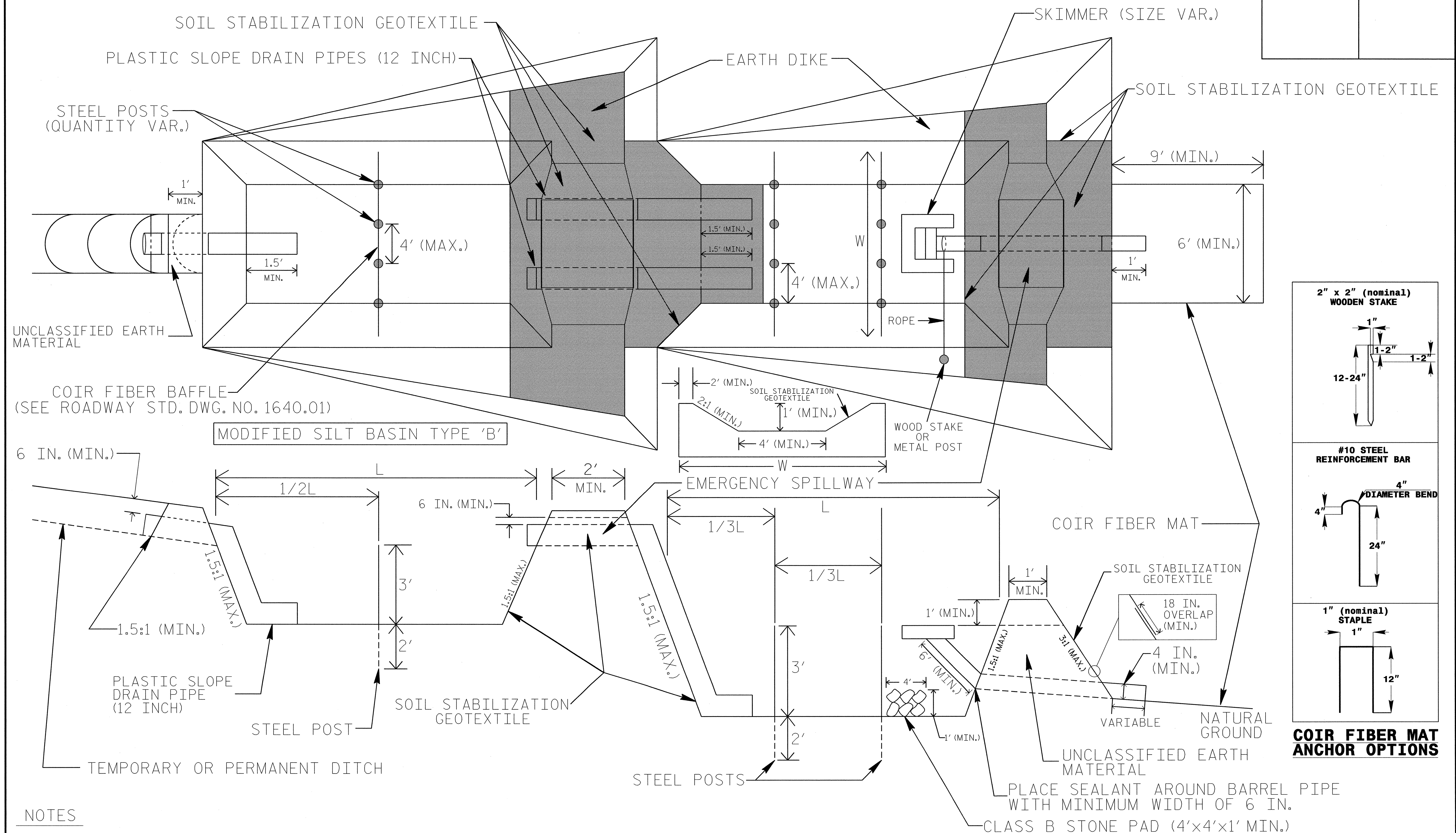
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# TIERED SKIMMER BASIN DETAIL

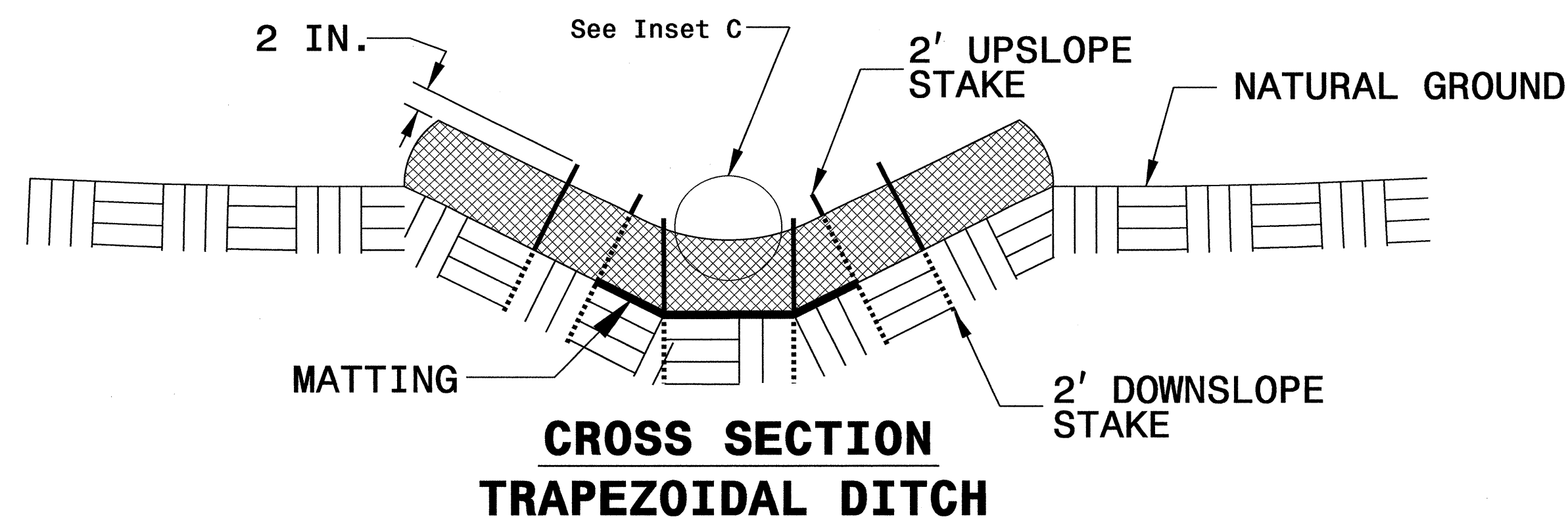
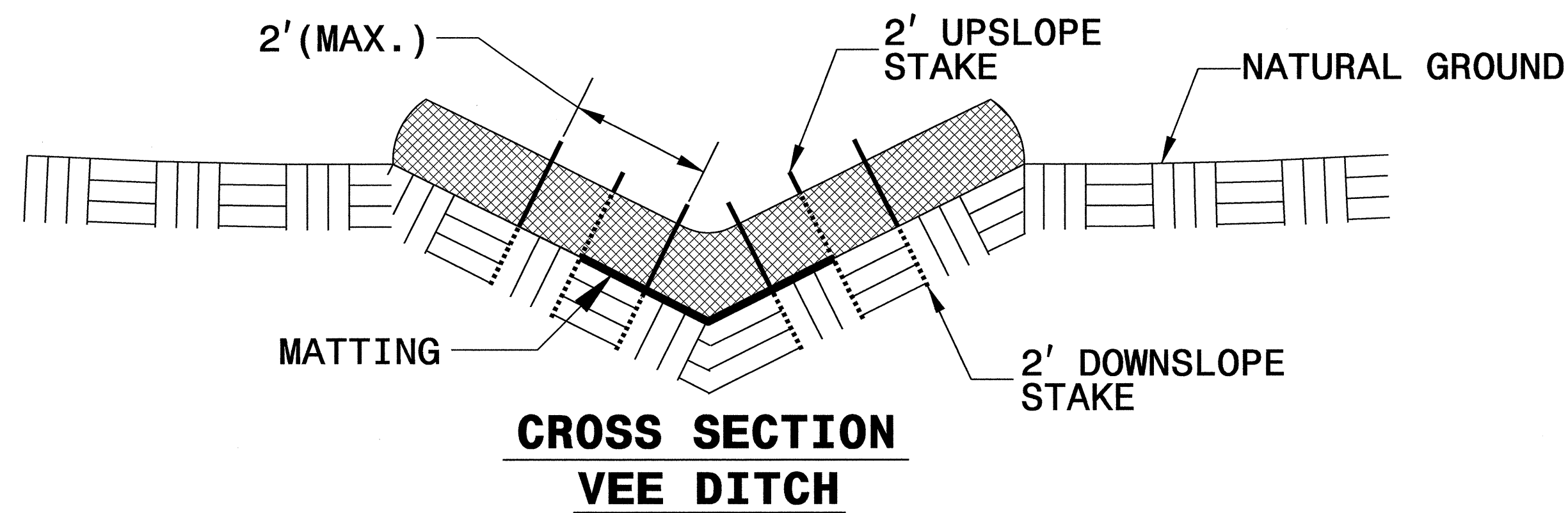
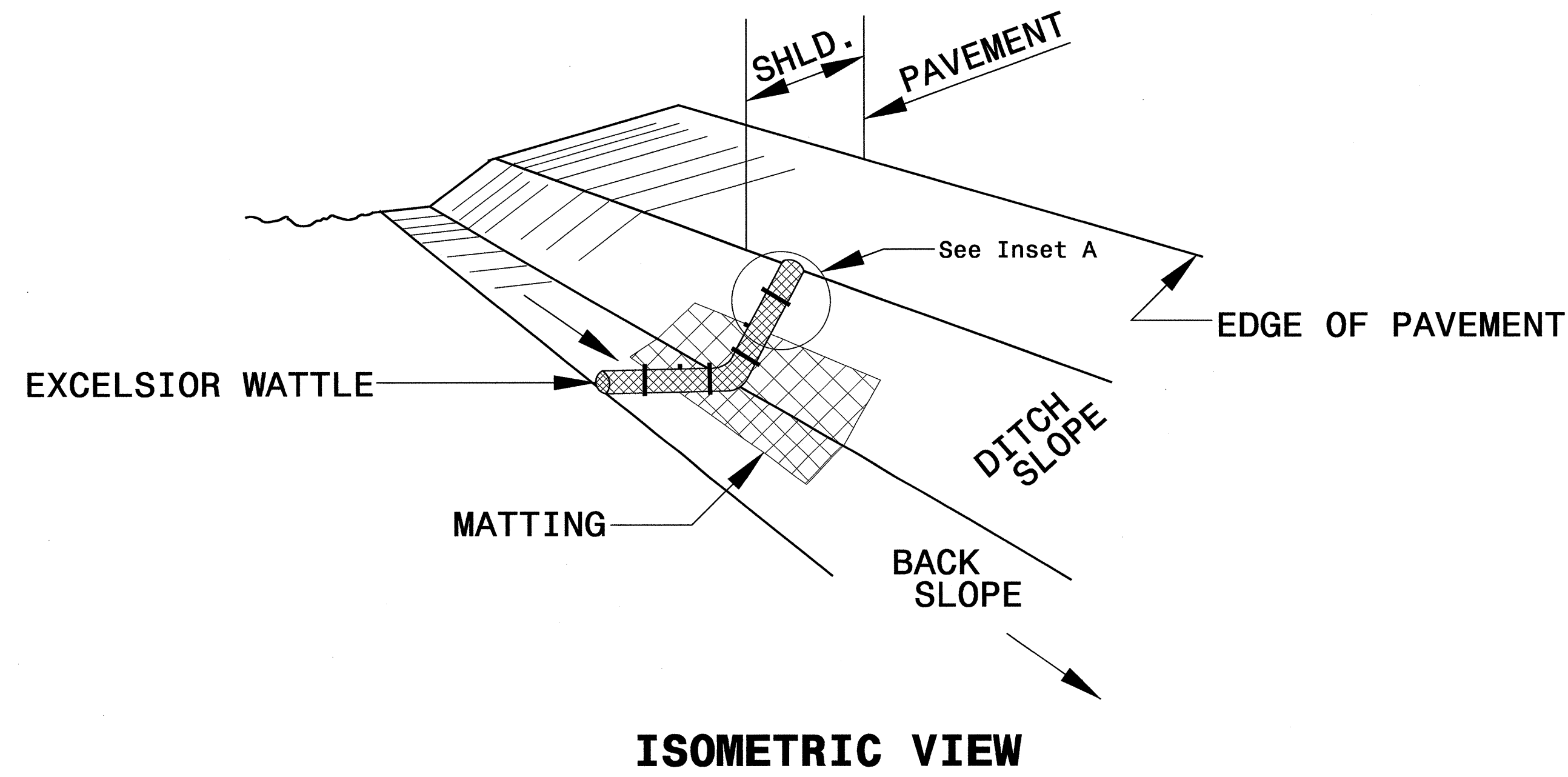
PROJECT REFERENCE NO. R-2707AA	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



- NOTES**
1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES OF BASINS.
  2. LIMIT HEIGHT OF EARTH DIKES TO 5 FT.
  3. ADDITIONAL MODIFIED SILT BASINS TYPE 'B' MAY BE NEEDED DEPENDING ON SLOPE.
  4. FOR BASIN DEPTHS OF 3FT., THE MINIMUM BASIN WIDTHS SHALL BE 9 FT.
  5. DETERMINE EMERGENCY SPILLWAY LENGTHS (FT.) USING  $Q/0.8$ , WHERE Q IS FLOW RATE (CFS) INTO UPPER BASIN.
  6. SOIL STABILIZATION GEOTEXTILE FOR EMERGENCY SPILLWAYS SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).
- NOT TO SCALE

PROJECT REFERENCE NO. R-2707AA	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



**NOTES:**

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

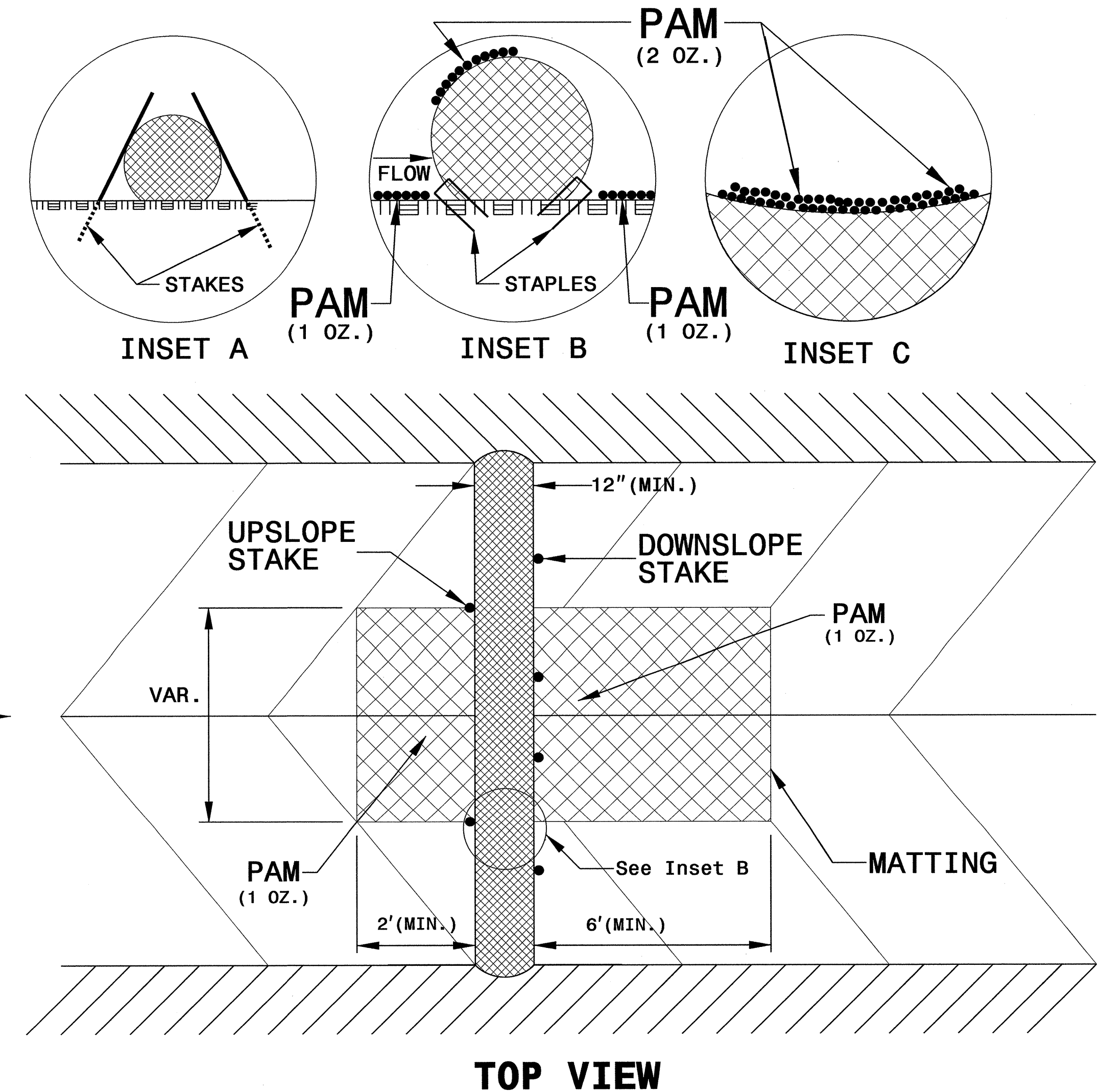
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

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

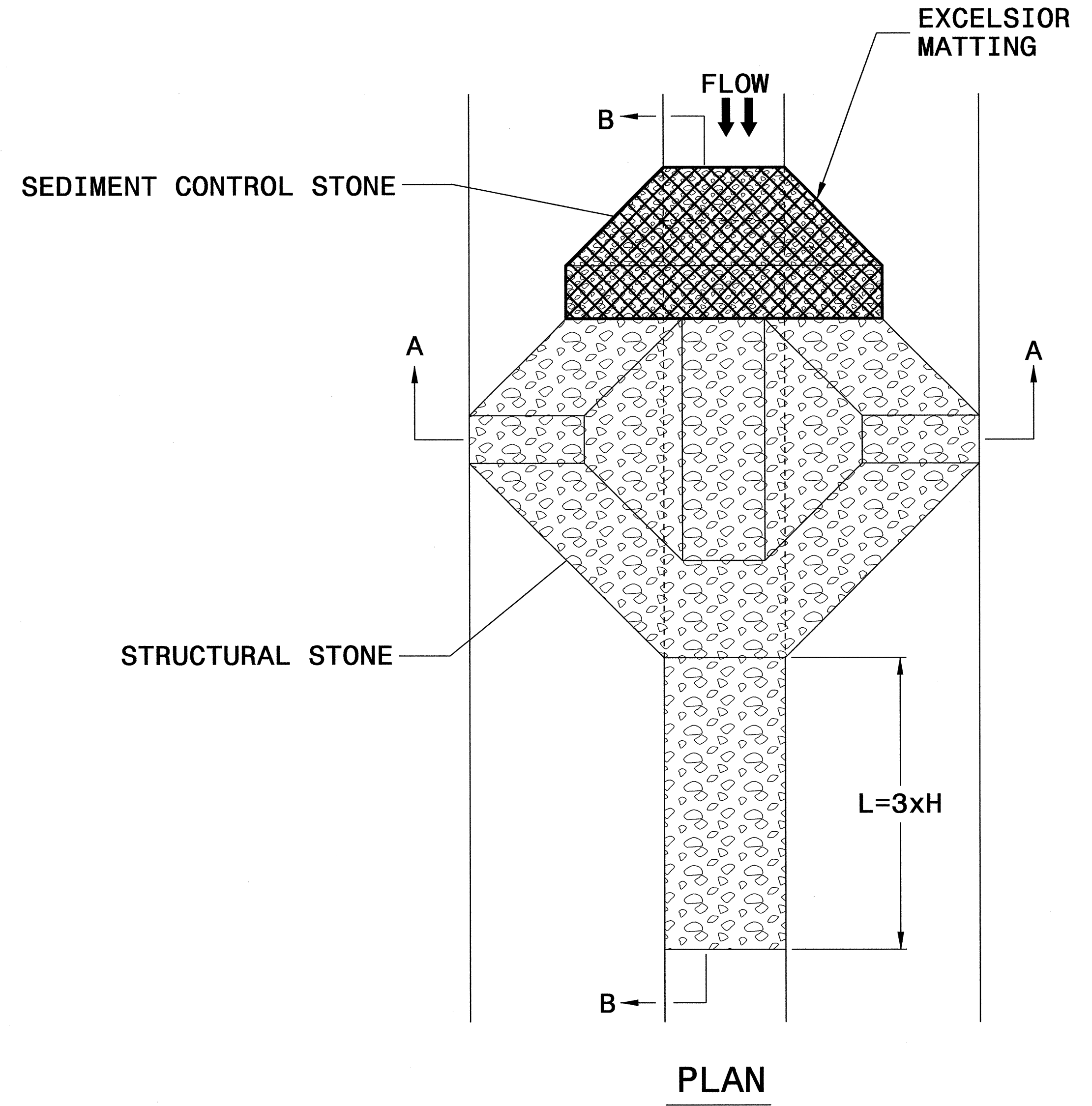
INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.





PROJECT REFERENCE NO. R-2707AA	SHEET NO. EC-2C
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

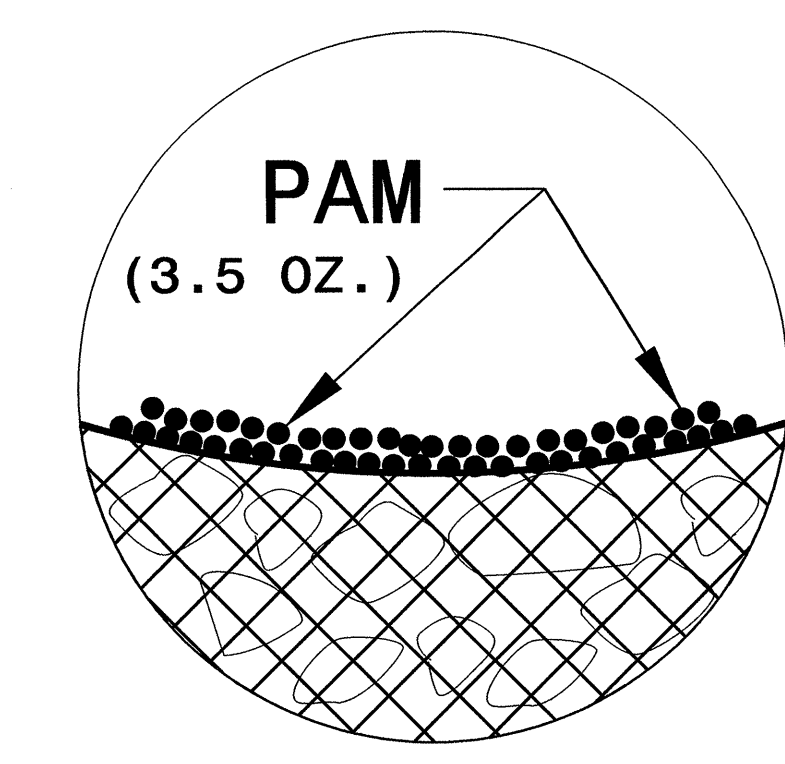


## NOTES

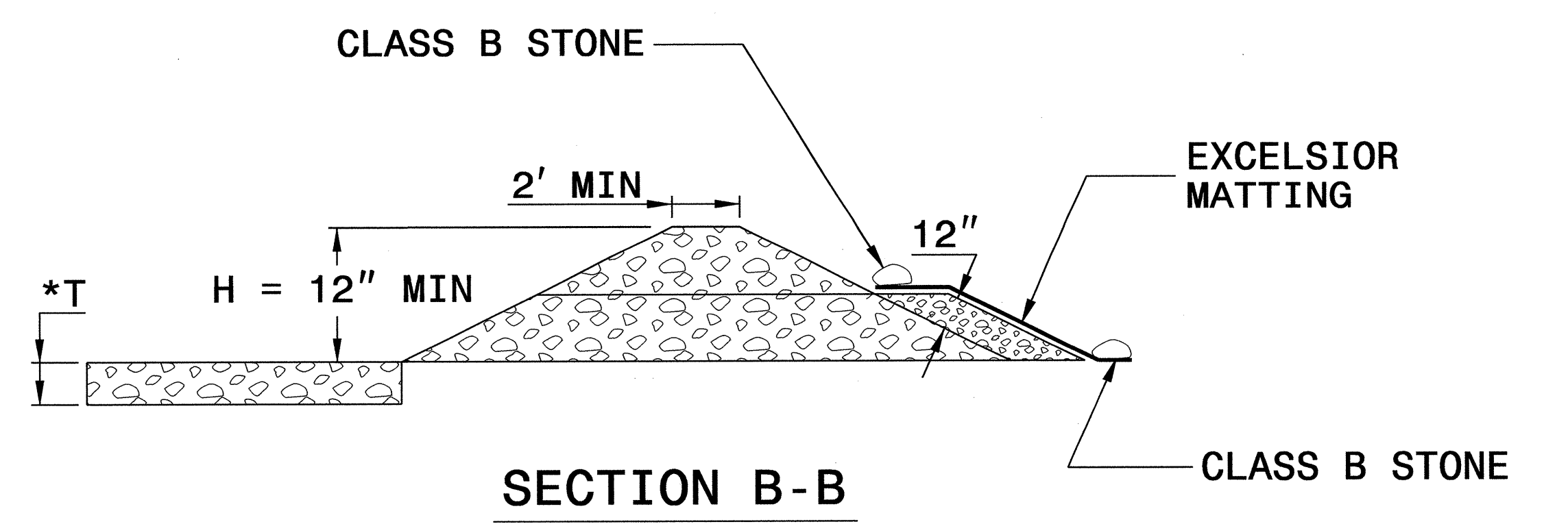
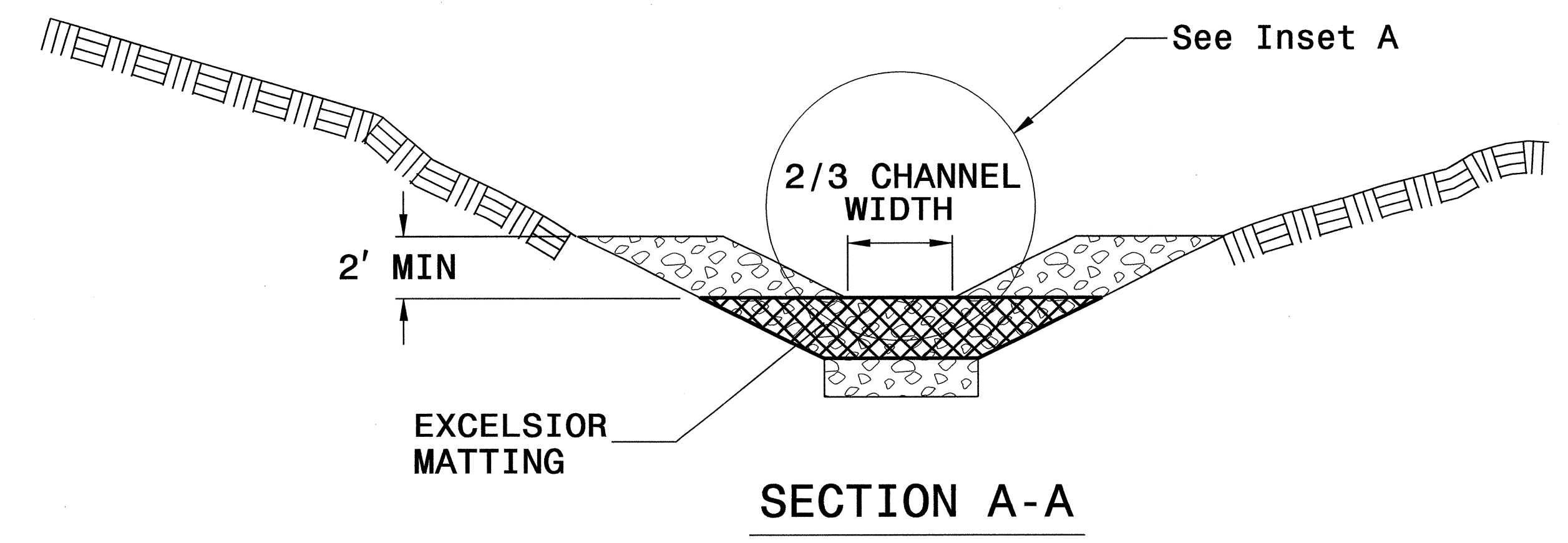
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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

INITIALLY APPLY 3.5 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



NOT TO SCALE

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. <i>R-2707AA</i>	SHEET NO. <i>EC-03</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**SOIL STABILIZATION SUMMARY SHEET**

**MATTING FOR EROSION CONTROL**

**MATTING FOR EROSION CONTROL**

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
5	-L-	21+50	24+00	RT	335
5	-L-	25+50	26+50	MED	270
5	-GR3-	18+66.26	20+49.13	RT	130
5	-L-	25+50	26+50	MED	270
6	-Y2RAMPC-	18+11.99	23+79.67	LT	765
6	-Y2RAMPC-	24+41.74	26+46.74	LT	235
6	-Y2RAMPC-	27+46.74	28+96.74	LT	140
6	-L-	30+50	32+50	RT	405
6	-L-	29+50	31+00	LT	195
6	-L-	42+00	42+50	RT	65
6	-L-	44+50	45+00	LT	335
6	-L-	43+00	55+50	MED	2510
6	-L-	45+00	53+50	RT	1140
6	-L-	50+00	52+50	LT	335
6	-L-	10+80	21+00	LT	1075
6	-L-	10+80	21+00	RT	1075
6	-Y2RAMPB-	24+00	24+50	LT	35
6	-Y2LOOPB-	13+39.03	15+33.24	LT	265
6	-Y2LOOPC-	13+90	14+51.56	RT	85
7	-L-	56+00	56+50	LT	70
7	-GR1-	21+60	23+60	RT	280
8	-L-	62+00	66+00	LT	540
8	-L-	63+00	94+00	MED	9335
8	-L-	64+00	65+50	RT	205
8	-LOOPB-	12+65	13+50	LT	175
8	-LOOPB-	14+00	14+50	LT	70
8	-L-	69+00	75+50	LT	1305
8	-L-	70+00	75+50	RT	740
8	-L-	76+50	80+00	RTBERM	300
8	-L-	79+00	93+50	LT	605

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
8	-L-	79+00	82+50	RT	470
8	-RAMPC-	20+46.7	23+16.43	LT	365
8	-L-	82+00	86+50	RT	605
8	-L-	86+50	93+00	LT	870
8	-L-	89+00	93+00	RT	540
9	-L-	99+00	101+00	RT	270
9	-L-	101+50	104+00	LT	335
9	-L-	106+50	109+00	LT	335
9	-L-	106+50	112+00	MED	1475
9	-L-	107+00	108+00	RT	135
9	-L-	110+50	112+00	LT	205
9	-L-	112+00	113+00	RT	135
9	-Y4-	44+00	53+00	LT	1205
9	-Y4-	45+50	53+00	RT	690
11	-GR6-	24+50	27+50	LT	210
12	-GR6-	41+00	44+00	RT	210
12	-GR6-	43+00	44+00	LT	70
12	-Y2-	10+50	12+00	RT	205
12	-Y2-	13+00	15+50	RT	230
13	-Y2-	37+50	38+00	RT	45
15	-RAMPB-	50+50	51+50	LT	135
15	-Y4-	56+50	58+50	RT	270
15	-Y6-	10+00	18+50	LT	1140
15	-Y6-	10+00	19+00	MED	1810
15	-Y6-	10+00	18+50	RT	1140
15	-Y6-	24+00	25+00	LT	135
15	-Y6-	27+00	28+00	LT	135
15	-Y6-	26+50	27+00	MED	65
15	-GR2-	12+00	13+45	LT	105
15	-GR2-	12+00	13+45	RT	135









DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

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PROJECT REFERENCE NO. <i>R-2707AA</i>	SHEET NO. <i>EC-3C</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# ***SOIL STABILIZATION TIMEFRAMES***

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

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.

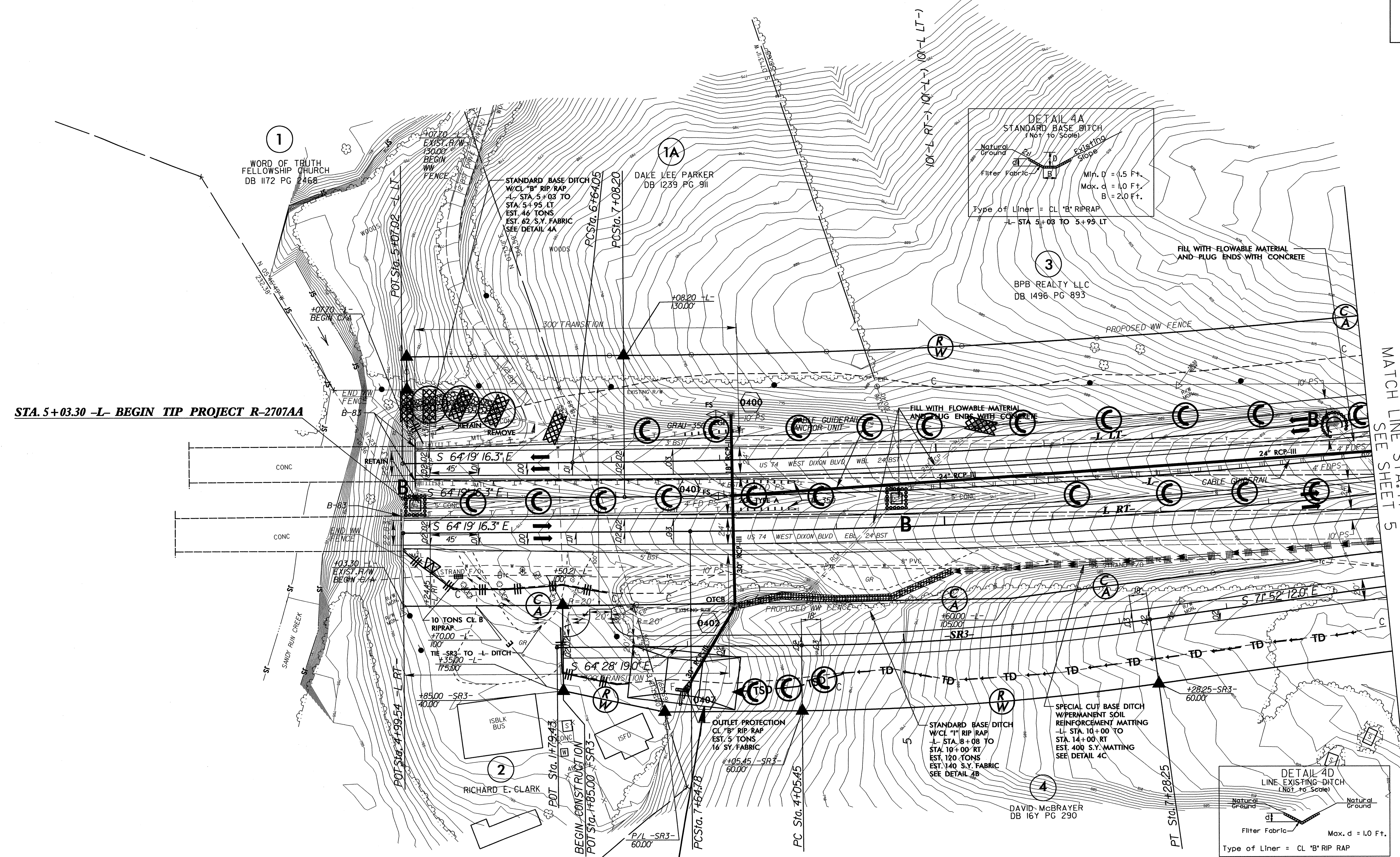
PROJECT REFERENCE NO.	SHEET NO.
R-2707AA	EC-4/CONST.4
RW SHEET NO.	4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

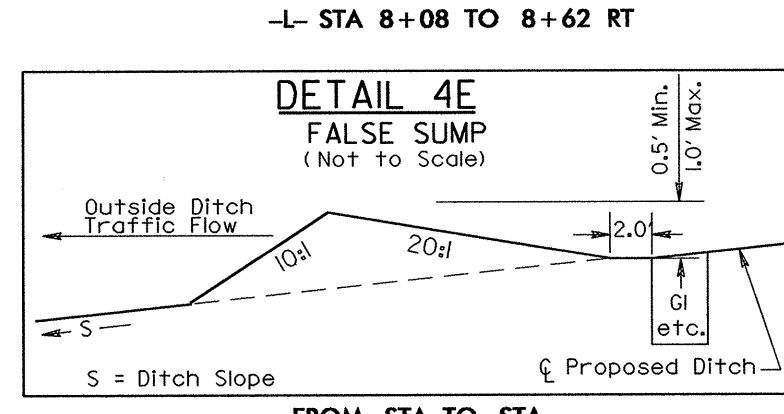
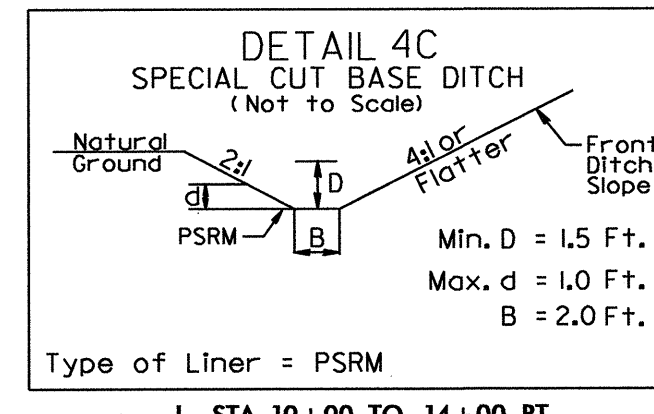
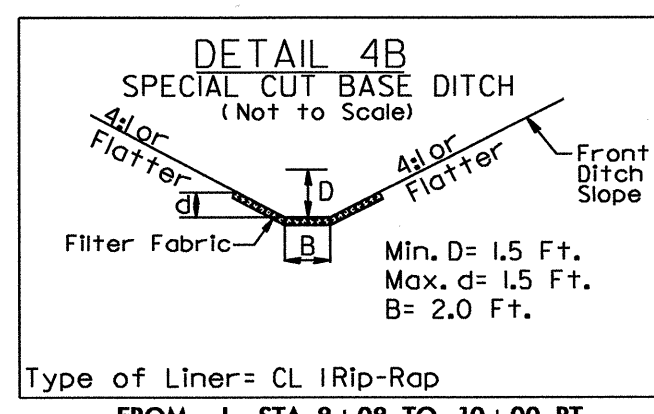
STA. 5+03.30 -L- BEGIN TIP PROJECT R-2707AA

MATCH LINE STA. 14+00.00 -L-  
SEE SHEET 5

NC GRID NAD 83/95



**48 x 100 x 3**  
**2.0 inch Skimmer**  
**with 1.875 inch**  
**Orifice Diameter**  
**28 ft. weir**  
**ID 4.1**



PAVEMENT REMOVAL



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.

PROJECT REFERENCE NO. R-2707AA	SHEET NO. EC-5/CONST.5
R/W SHEET NO. 5	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

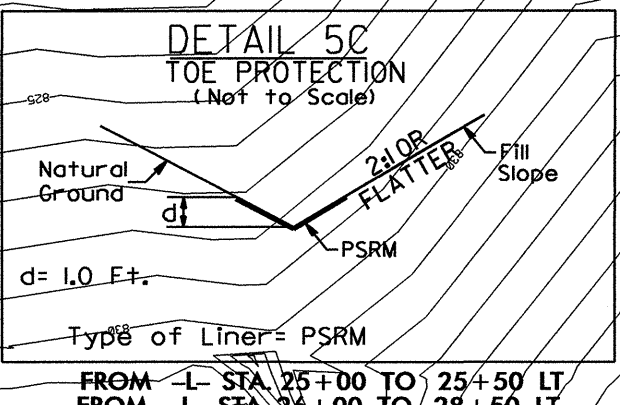
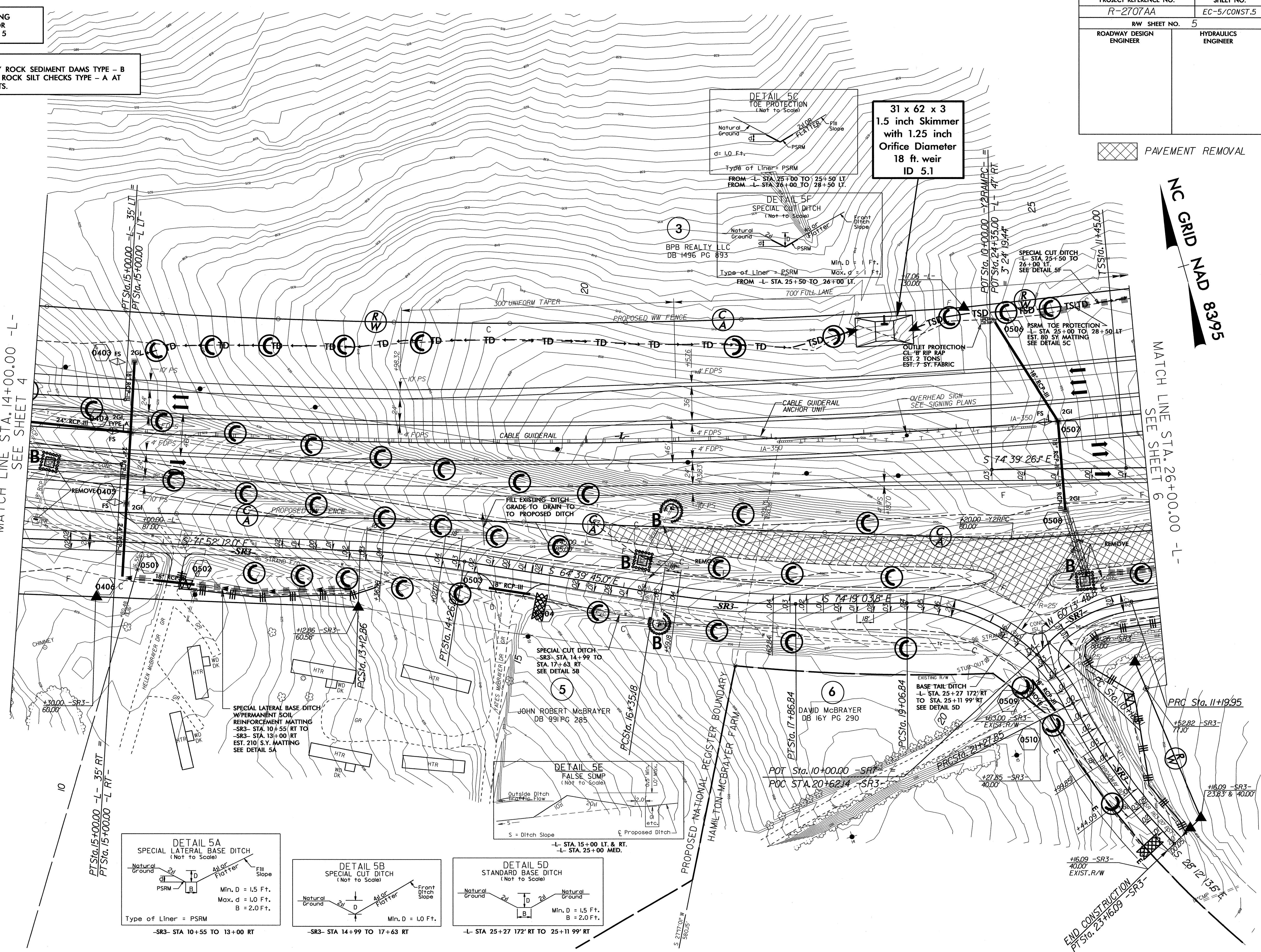
PAVEMENT REMOVAL

NC GRID NAD 8395

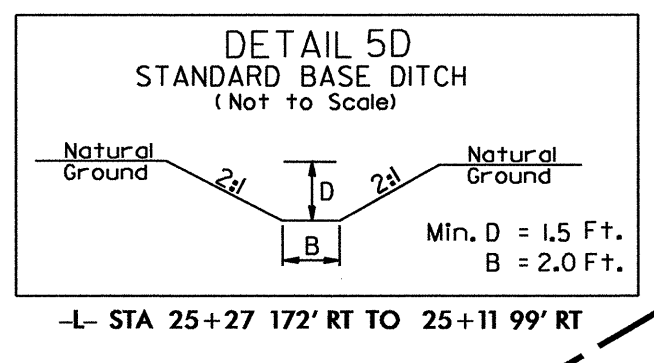
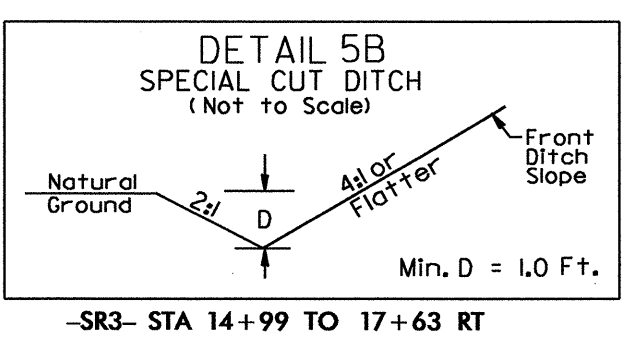
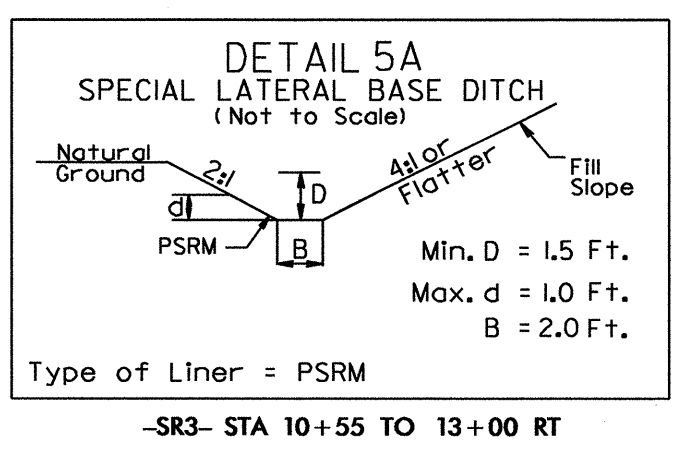
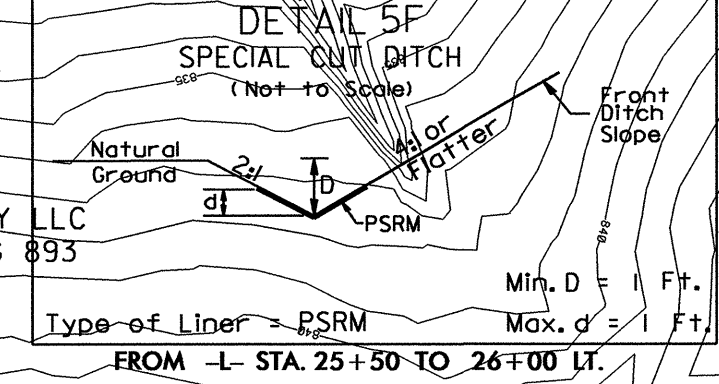
MATCH LINE STA. 14+00.00 -L-  
SEE SHEET 4

MATCH LINE STA. 26+00.00 -L-  
SEE SHEET 6

REVISIONS



31 x 62 x 3  
1.5 inch Skimmer  
with 1.25 inch  
Orifice Diameter  
18 ft. weir  
ID 5.1



**5**  
SPECIAL CUT DITCH  
-SR3- STA. 14+99 TO  
STA. 17+63 RT  
SEE DETAIL 5B

JOHN ROBERT McBRAYER  
DB 99 PG 285

**6**  
DAVID McBRAYER  
DB 16Y PG 290

E.M.D. CONSTRUCTION  
PT Sta. 23+16.09 -SR3-



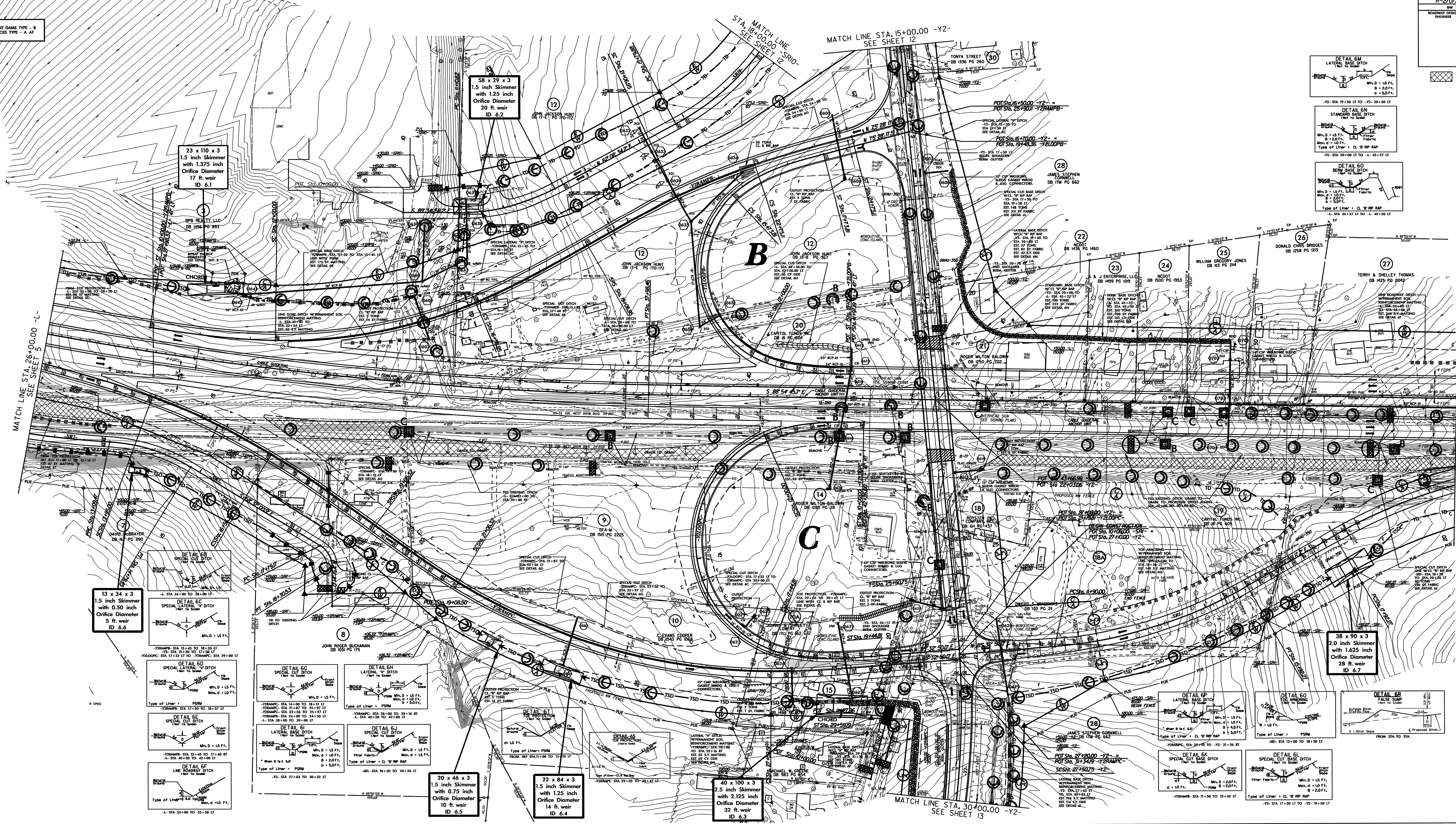
CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 6

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

PROJECT REFERENCE NO. R-2707AA	SHEET NO. EC-6-0206T.6
RDW SHEET NO. 6	HYDRAULICS PROGRAM

PAVEMENT REMOVAL

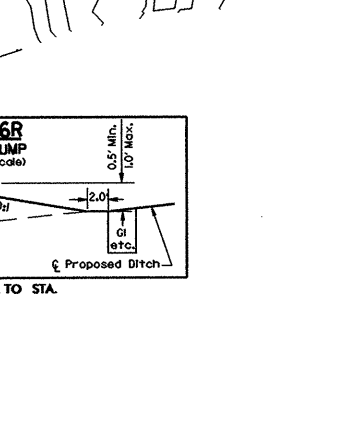
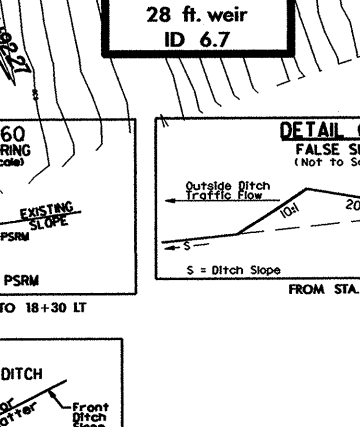
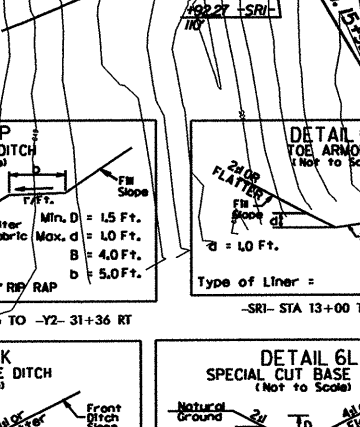
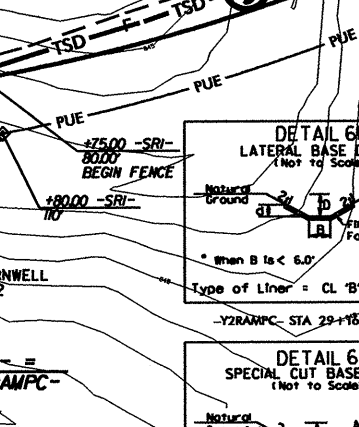
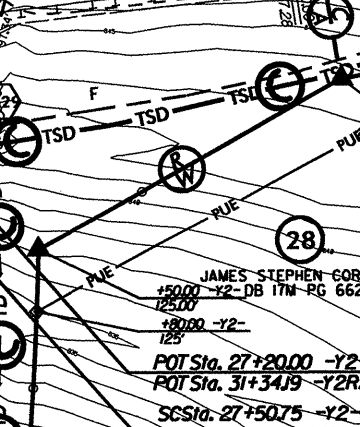
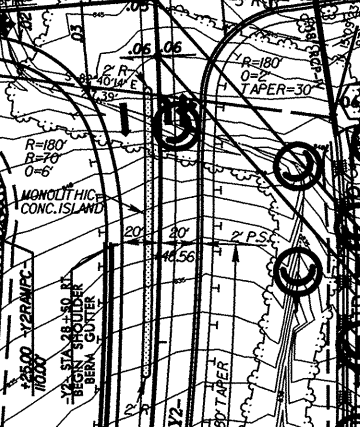
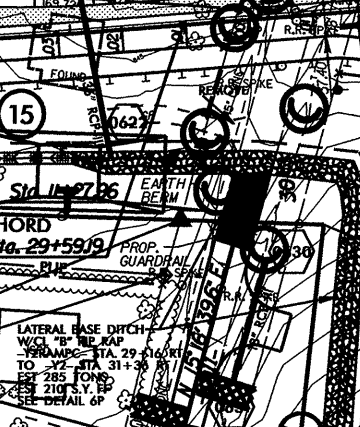
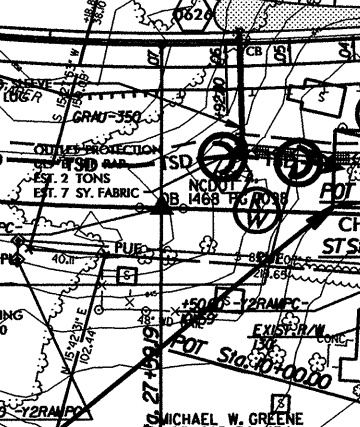
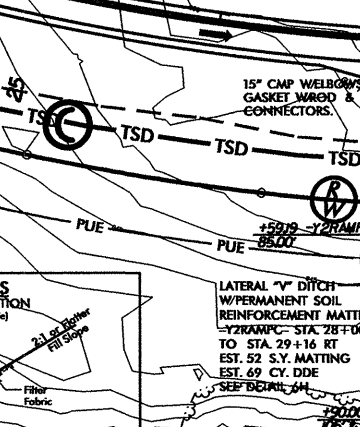
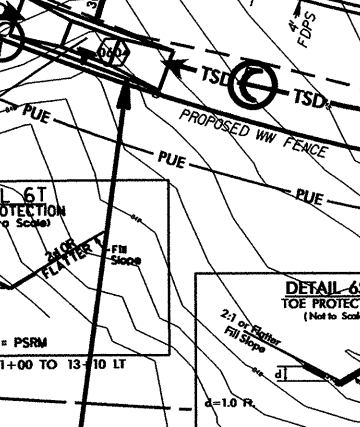
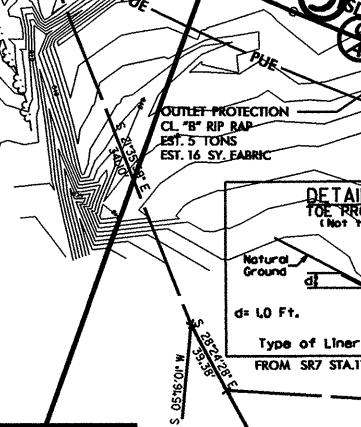
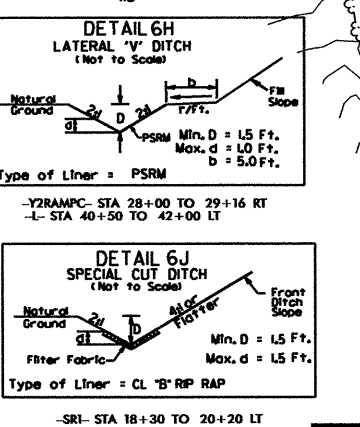
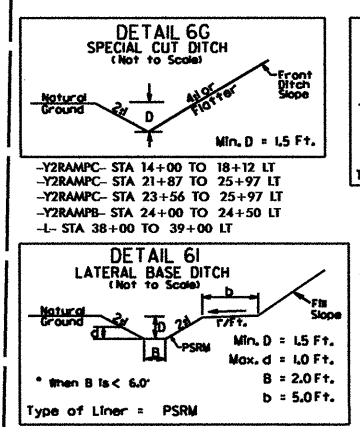
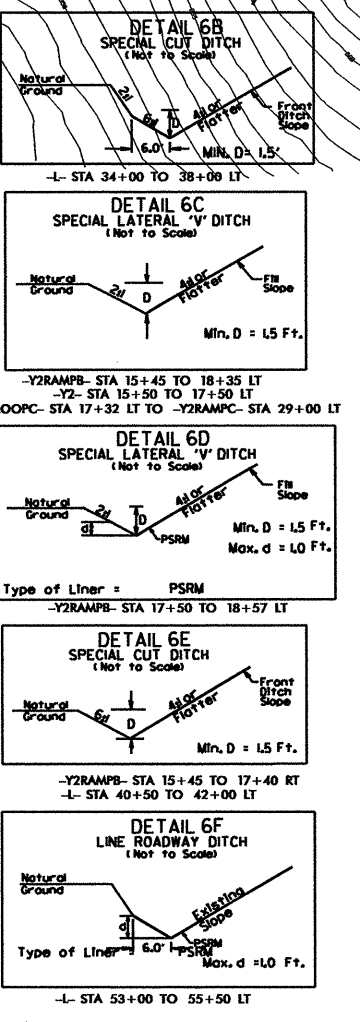
NC GRID NAD 8395



MATCH LINE STA. 14+26+00.00 -L-  
SEE SHEET 5

MATCH LINE STA. 14+00.00 -L-  
SEE SHEET 7

13 x 24 x 3  
1.5 inch Skimmer  
with 0.50 inch  
Orifice Diameter  
5 ft. weir  
ID 6.6



20 x 46 x 3  
1.5 inch Skimmer  
with 0.75 inch  
Orifice Diameter  
10 ft. weir  
ID 6.5

22 x 84 x 3  
1.5 inch Skimmer  
with 1.25 inch  
Orifice Diameter  
14 ft. weir  
ID 6.4

40 x 100 x 3  
2.5 inch Skimmer  
with 2.125 inch  
Orifice Diameter  
32 ft. weir  
ID 6.3

38 x 90 x 3  
2.0 inch Skimmer  
with 1.625 inch  
Orifice Diameter  
28 ft. weir  
ID 6.7

DATE: 11/15/11  
DRAWN: J. HARRIS  
CHECKED: J. HARRIS

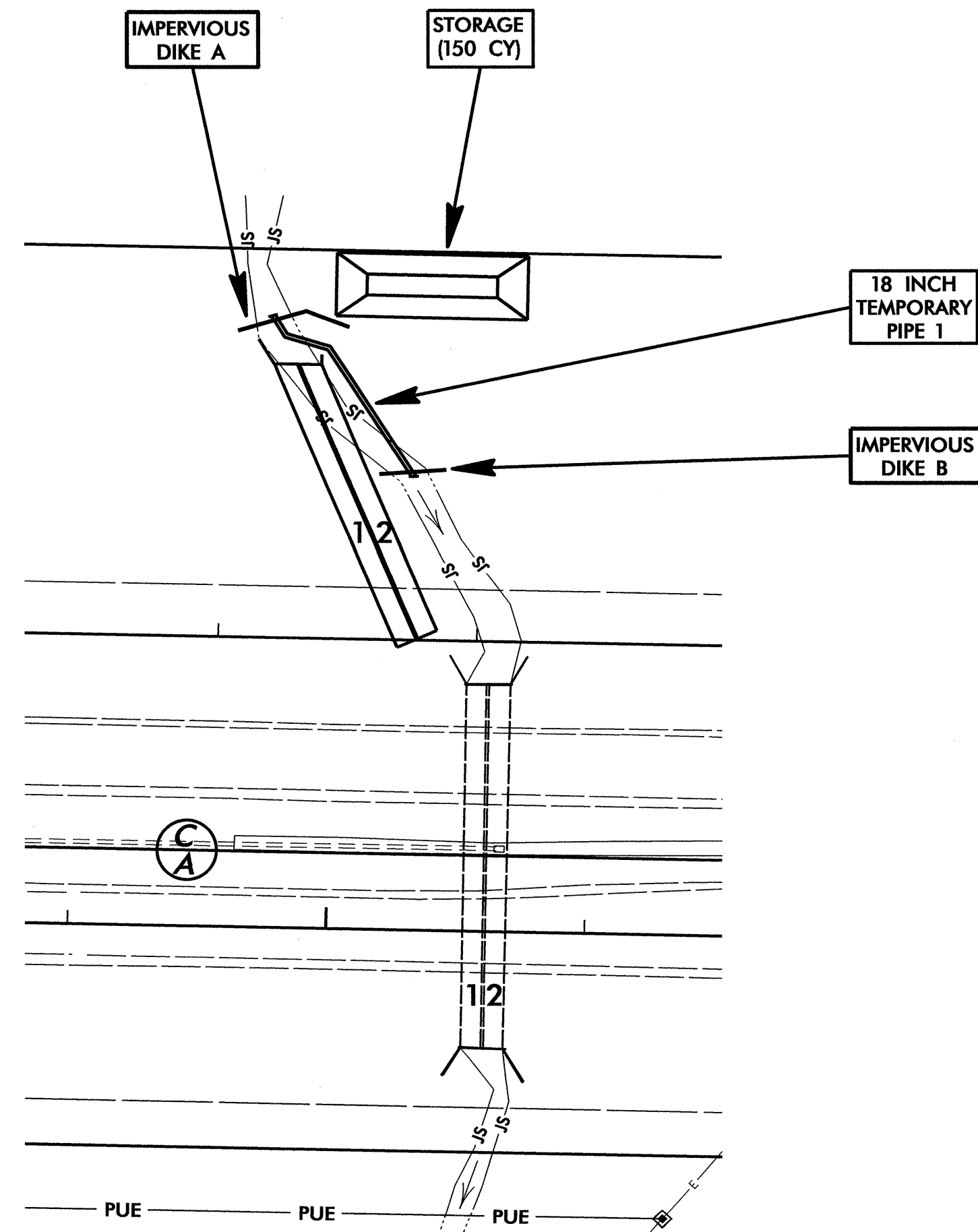


PROJECT REFERENCE NO. R-2707AA	SHEET NO. EC-8/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# CULVERT CONSTRUCTION SEQUENCE STA. 58+77 -L- (SHEET 1 OF 2)

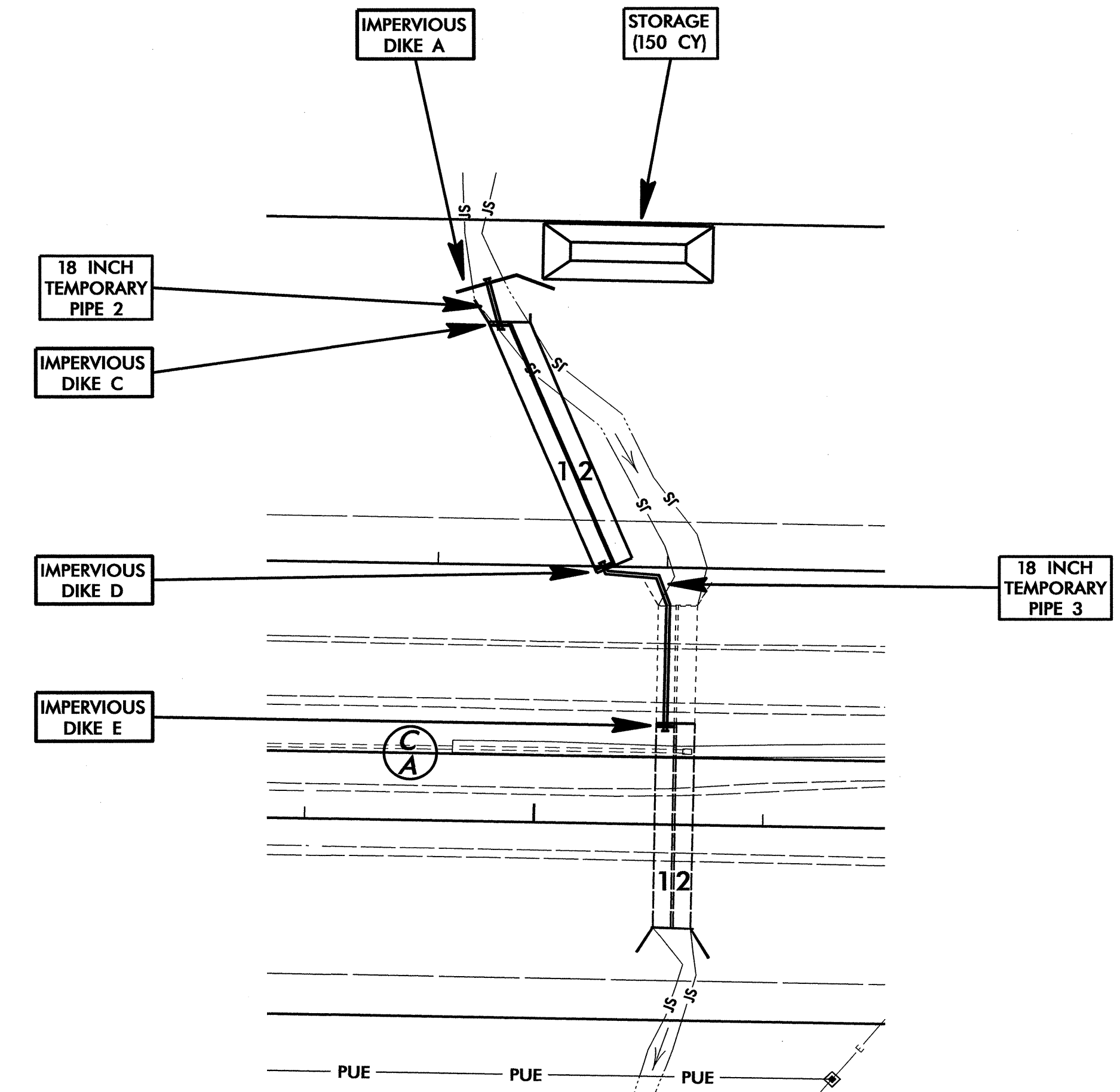
## PHASE I

1. CONSTRUCT STILLING BASIN (150 CY).
2. CONSTRUCT IMPERVIOUS DIKES A AND B AND INSTALL 18" TEMPORARY PIPE 1, DIVERTING FLOW.
3. CONSTRUCT APPROXIMATELY 116 FEET OF BOTH BARRELS ON THE UPSTREAM END OF THE PROPOSED CULVERT EXTENSION.
4. REMOVE IMPERVIOUS DIKE B AND TEMPORARY PIPE 1.



## PHASE II

5. CONSTRUCT IMPERVIOUS DIKES C, D AND E AND INSTALL 18" TEMPORARY PIPES 2 AND 3, DIVERTING FLOW THROUGH THE COMPLETED PORTION OF THE PROPOSED CULVERT EXTENSION AND JUST BEYOND THE PROPOSED CONSTRUCTION JOINT IN THE EXISTING CULVERT.
6. BACKFILL THE COMPLETED PORTION OF THE PROPOSED CULVERT EXTENSION.
7. REMOVE A PORTION OF THE EXISTING CULVERT AND EXCAVATE THE ROADWAY EMBANKMENT FOR THE PROPOSED CULVERT EXTENSION.

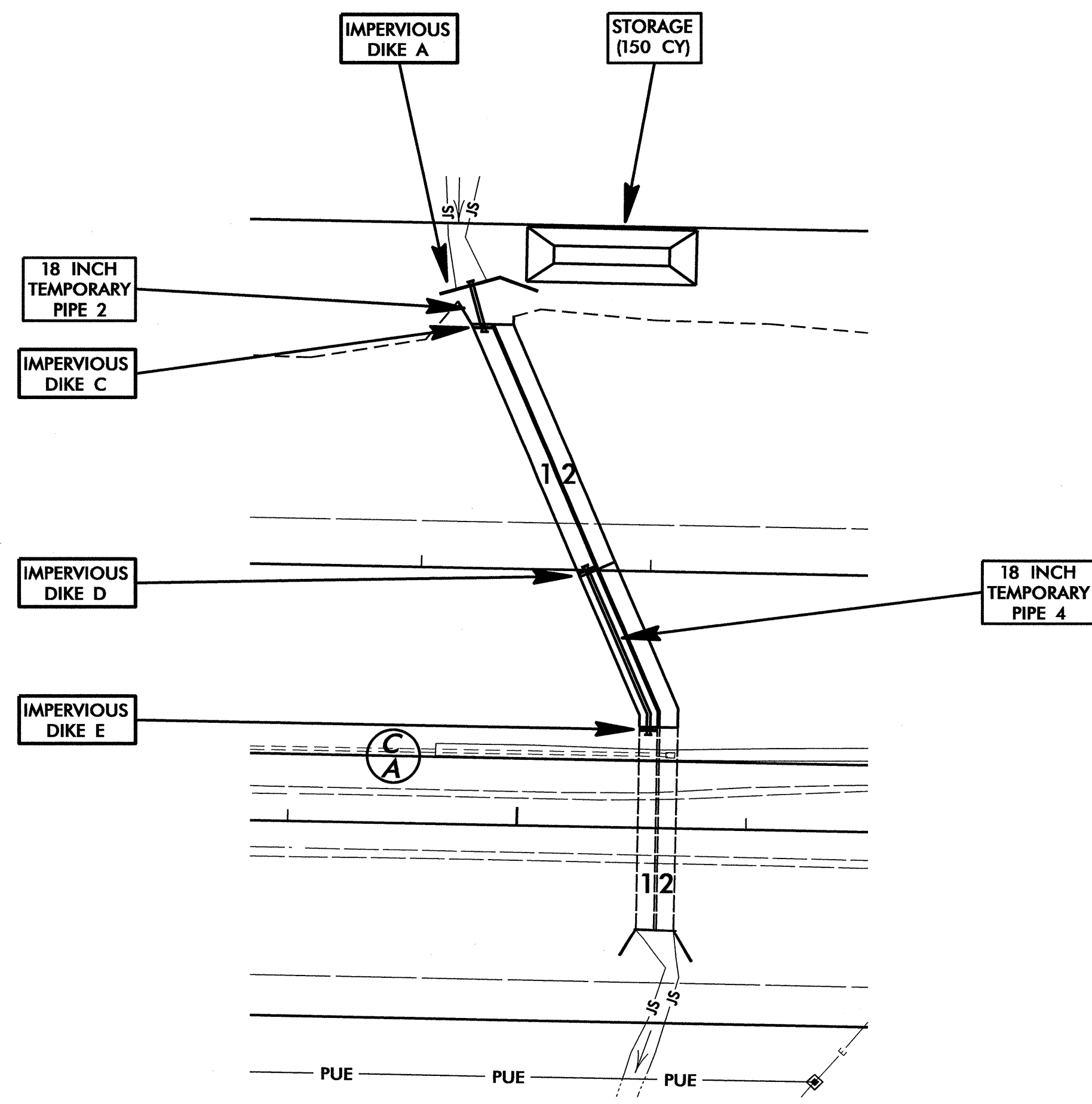


PROJECT REFERENCE NO. R-2707AA	SHEET NO. EC-9/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# CULVERT CONSTRUCTION SEQUENCE STA. 58+77 -L- (SHEET 2 OF 2)

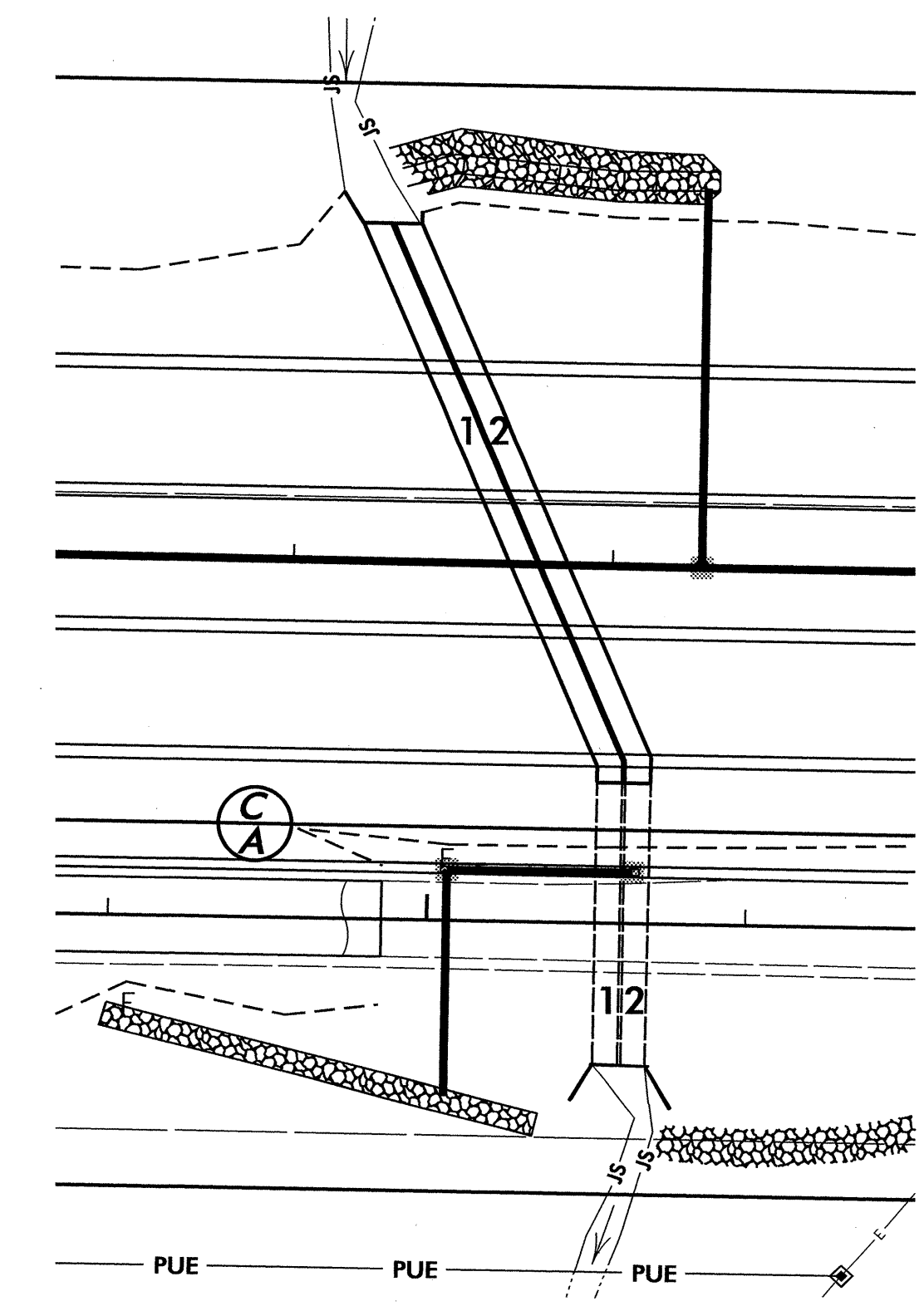
## PHASE III

8. REMOVE TEMPORARY PIPE 3 AND INSTALL 18" TEMPORARY PIPE 4, DIVERTING FLOW ALONG THE PROPOSED CULVERT EXTENSION ALIGNMENT.
9. CONSTRUCT THE REMAINDER OF THE PROPOSED CULVERT EXTENSION, AND ANY NECESSARY INLET CHANNEL IMPROVEMENTS.



## PHASE IV

10. REMOVE ALL REMAINING IMPERVIOUS DIKES AND TEMPORARY PIPES, ALLOWING NORMAL FLOW THROUGH THE CULVERT.
11. REMOVE STILLING BASIN.
12. COMPLETE ROADWAY.





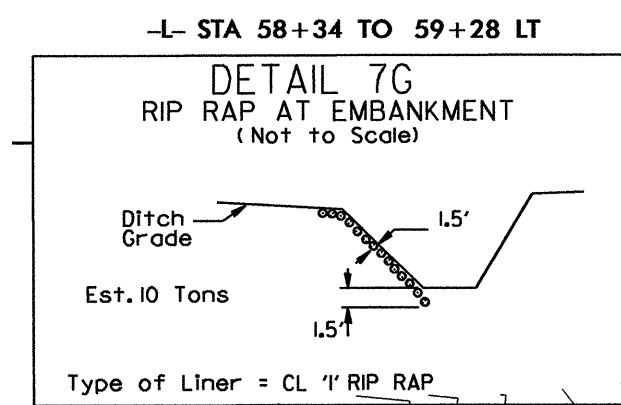
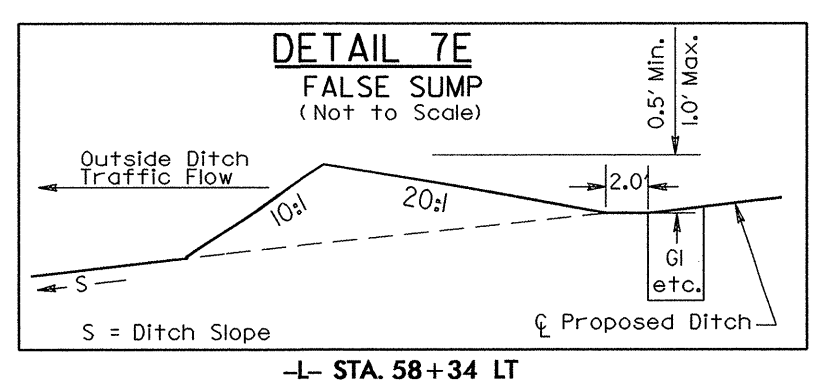
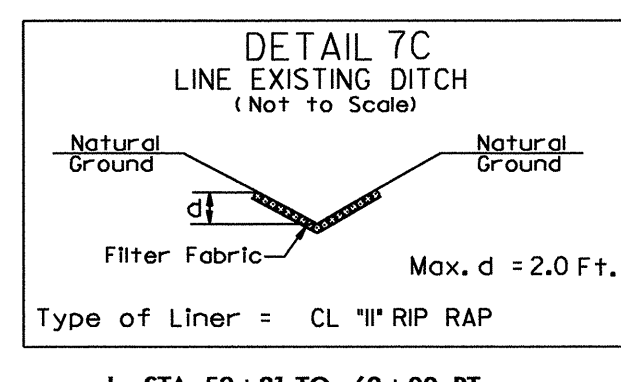
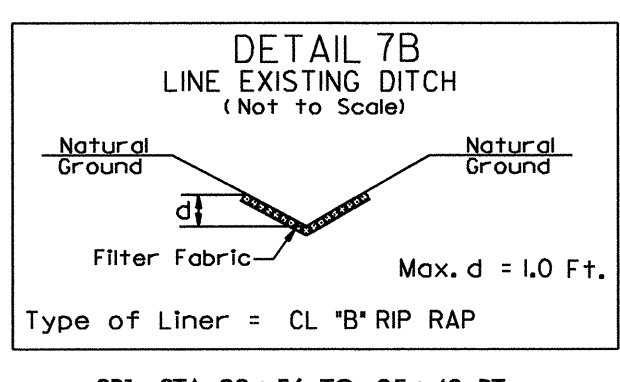
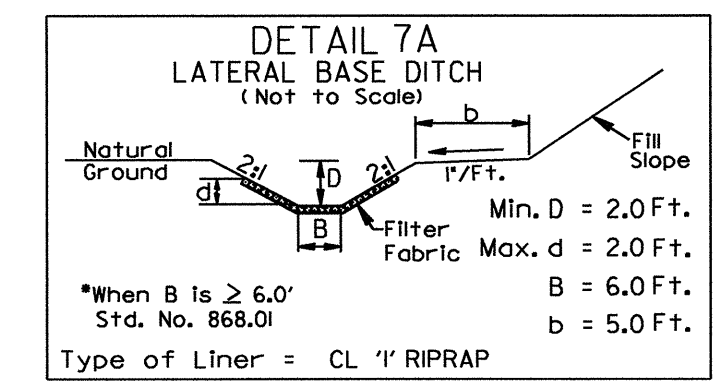
PROJECT REFERENCE NO.	SHEET NO.
R-2707AA	EC-7/CONST.7
RW SHEET NO. 7	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PAVEMENT REMOVAL

NC GRID NAD 8395

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 7



28  
JAMES STEPHEN CORNWELL  
DB 17M PG 662

33 x 15 x 3  
1.5 inch Skimmer  
with 0.50 inch  
Orifice Diameter  
6 ft. weir  
ID 7.3

72 x 28 x 3  
1.5 inch Skimmer  
with 1.375 inch  
Orifice Diameter  
20 ft. weir  
ID 7.4

64 x 22 x 3  
1.5 inch Skimmer  
with 1.0 inch  
Orifice Diameter  
14 ft. weir  
ID 7.1

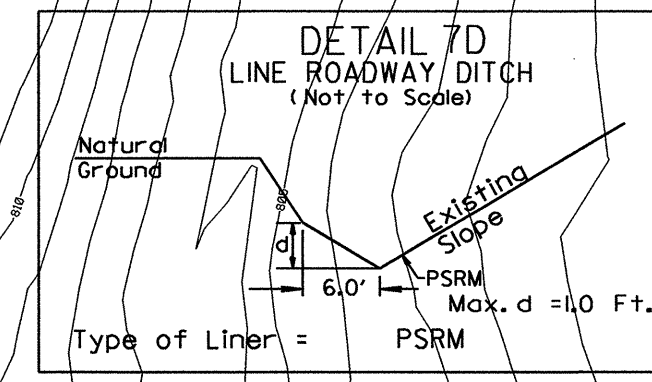
LINE ROADWAY DITCH  
W/PERMANENT SOIL  
REINFORCEMENT MATTING  
-L- STA. 53+00 LT  
TO STA. 55+50 LT  
EST. 340 S.Y. MATTING  
SEE DETAIL 7D

LATERAL "BASE" DITCH  
W/CL '1' RIP RAP  
-L- STA. 58+34  
TO STA. 59+28 LT  
EST. 45 TONS  
EST. 95 S.Y. FABRIC  
EST. 106 CY. DDE  
SEE DETAIL 7A

MATCH LINE STA. 54+00.00 -L-  
SEE SHEET 6

MATCH LINE STA. 62+00.00 -L-  
SEE SHEET 8

PI Sta 13+94.55 Δ = 25° 36' 32.8" (LT) D = 6' 21" 58.3" L = 402.27' T = 204.55' R = 900.00' DS = 50 MPH  
PI Sta 20+70.89 Δ = 31° 08' 18.8" (RT) D = 5' 43" 46.5" L = 543.47' T = 278.63' R = 1,000.00' DS = 50 MPH



38 x 16 x 3  
1.5 inch Skimmer  
with 0.625 inch  
Orifice Diameter  
8 ft. weir  
ID 7.2

28A  
CHARLES CORNWELL  
DB 94E PG 665

REVISIONS



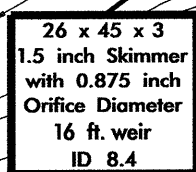
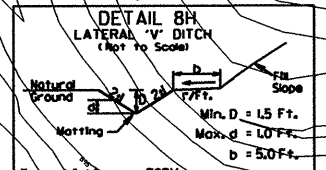
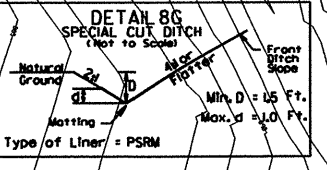
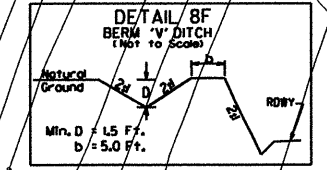
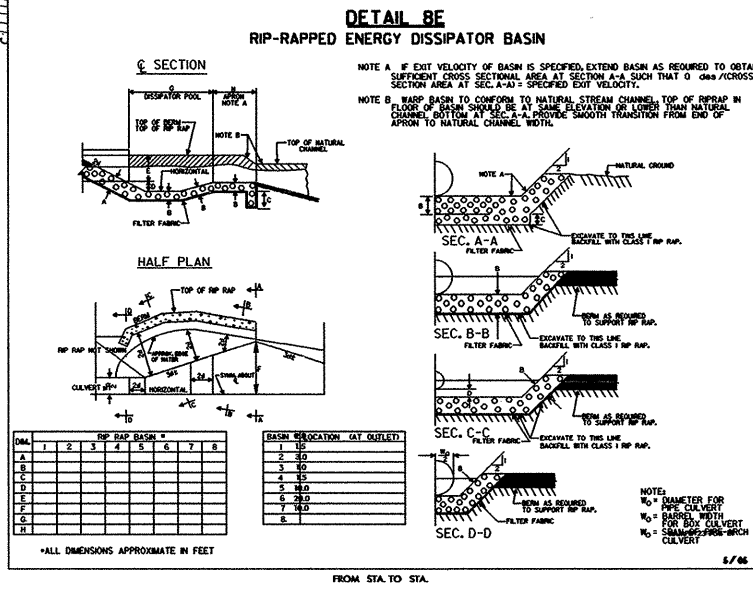
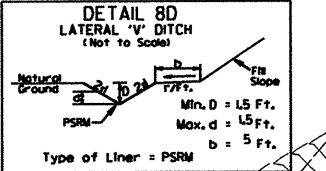
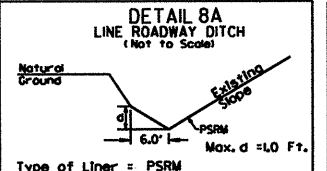
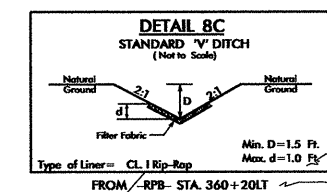
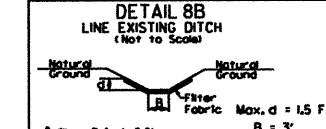
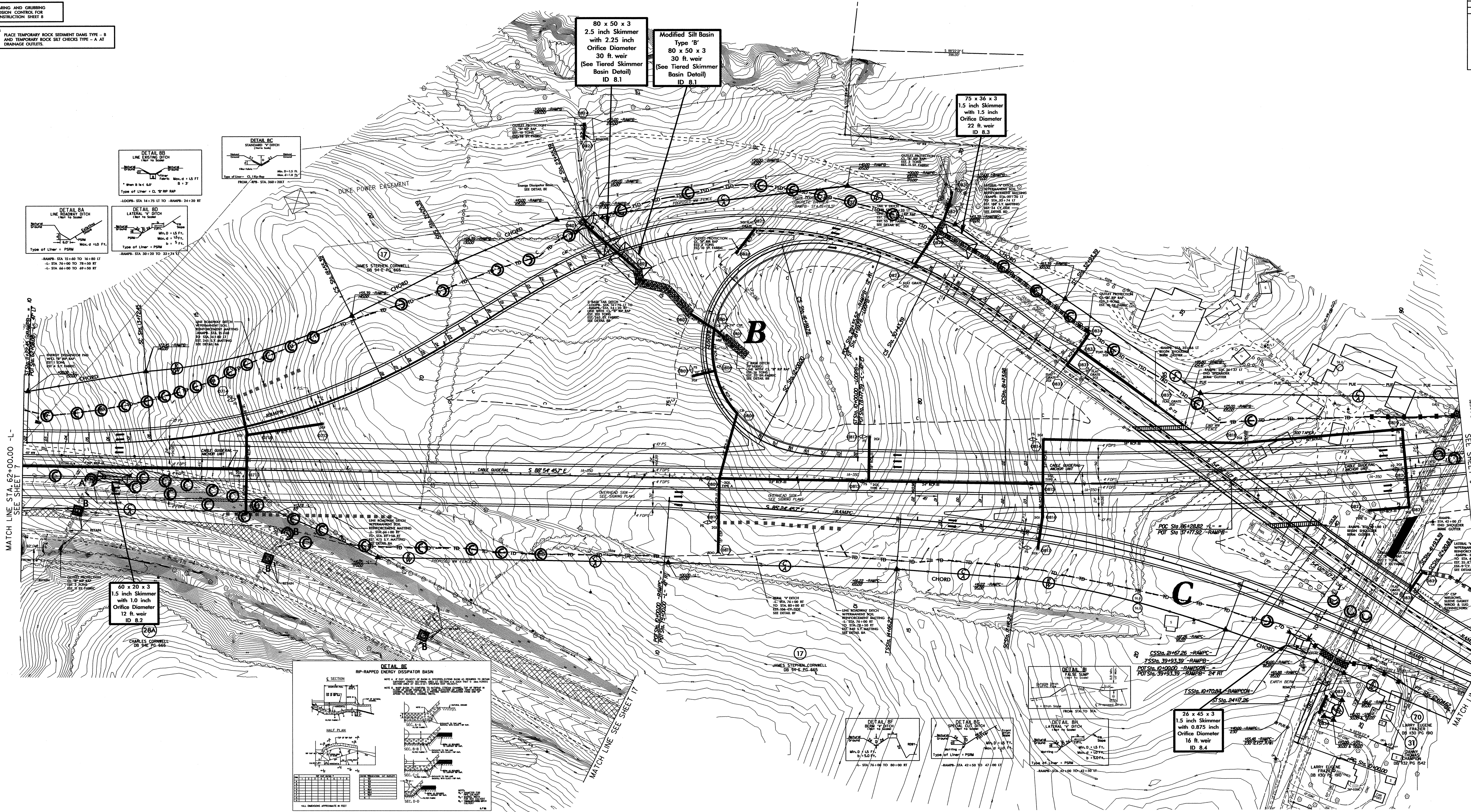
CLEANING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET B

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

PROJECT REFERENCE NO.	SHEET NO.
R-2707AA	EC-10/CONST.B
ENGINEER	HYDRAULICS ENGINEER

PAVEMENT REMOVAL

NC GRID NAD 83/95



80 x 50 x 3  
2.5 inch Skimmer  
with 2.25 inch  
Orifice Diameter  
30 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 8.1

Modified Silt Basin  
Type 'B'  
80 x 50 x 3  
30 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 8.1

75 x 36 x 3  
1.5 inch Skimmer  
with 1.5 inch  
Orifice Diameter  
22 ft. weir  
ID 8.3

60 x 20 x 3  
1.5 inch Skimmer  
with 1.0 inch  
Orifice Diameter  
12 ft. weir  
ID 8.2

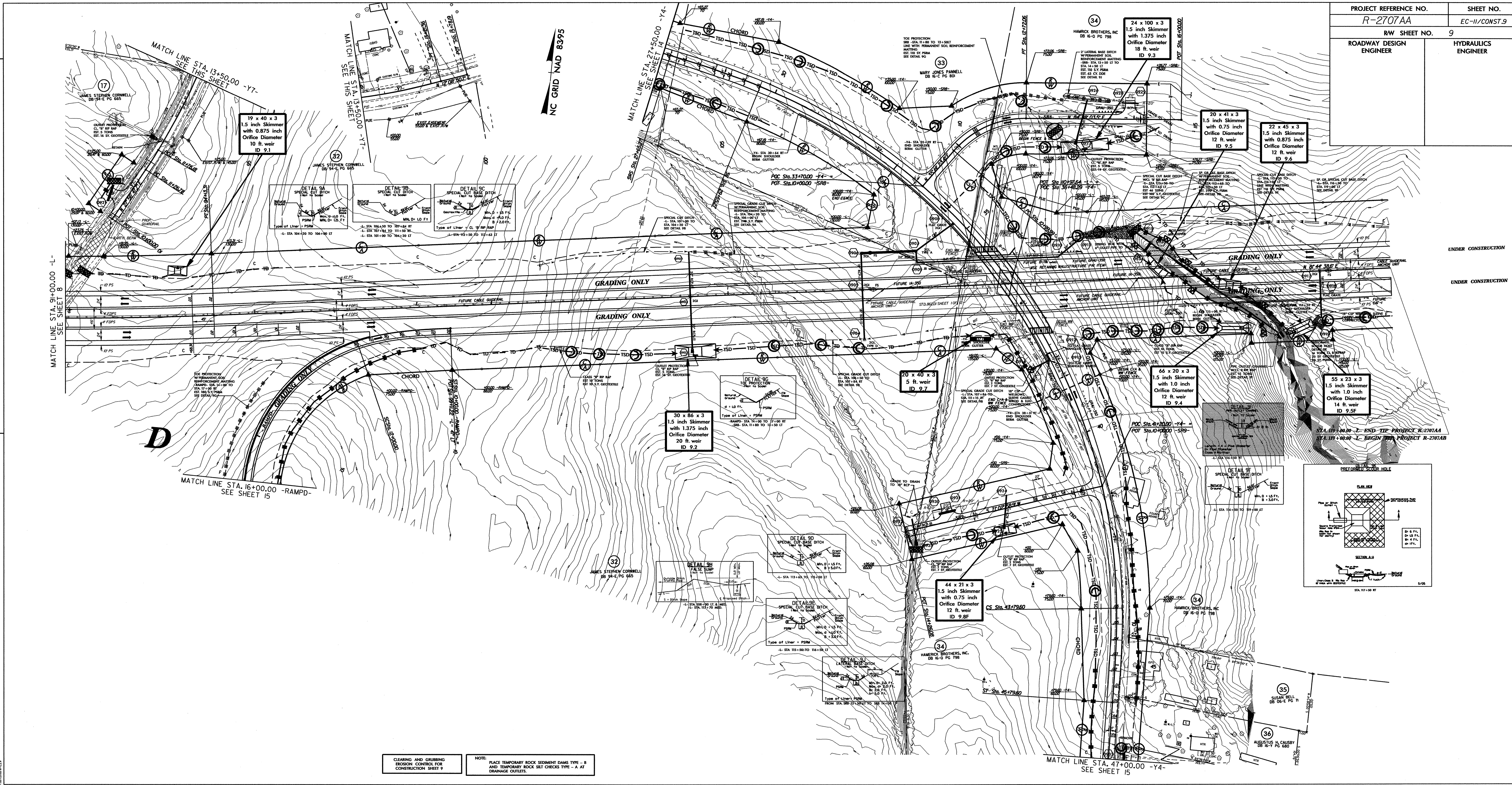
26 x 43 x 3  
1.5 inch Skimmer  
with 0.875 inch  
Orifice Diameter  
16 ft. weir  
ID 8.4

DATE: 05/10/00  
DRAWN: J. W. HARRIS

SCALE: AS SHOWN  
ALL DIMENSIONS APPROXIMATE IN FEET  
FROM STA TO STA



PROJECT REFERENCE NO.	SHEET NO.
R-2707AA	EC-11/CONST.9
R/W SHEET NO.	9
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

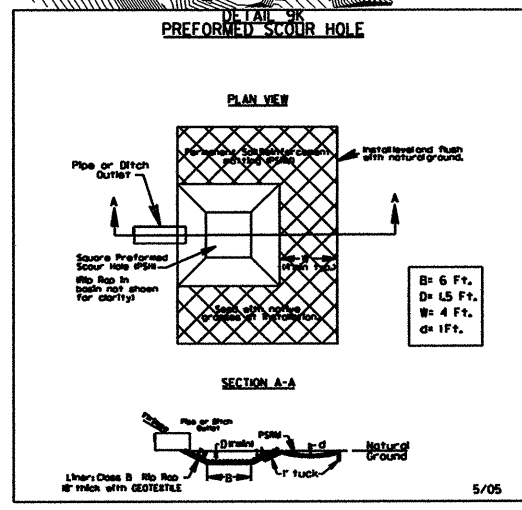


CLEARING AND GRUBBING PROVISION CONTROL FOR CONSTRUCTION SHEET 9

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

UNDER CONSTRUCTION

UNDER CONSTRUCTION



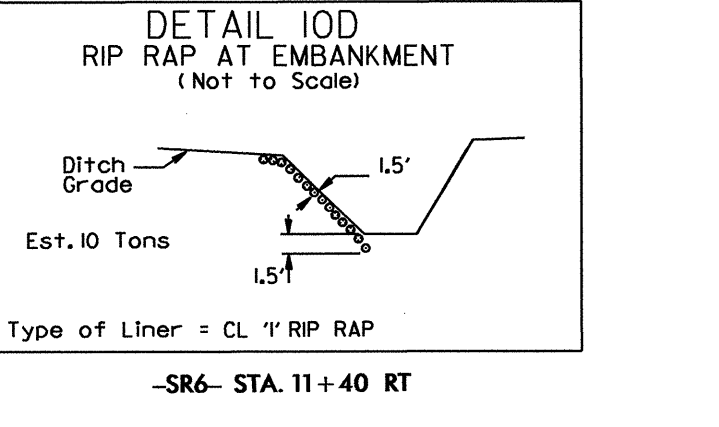
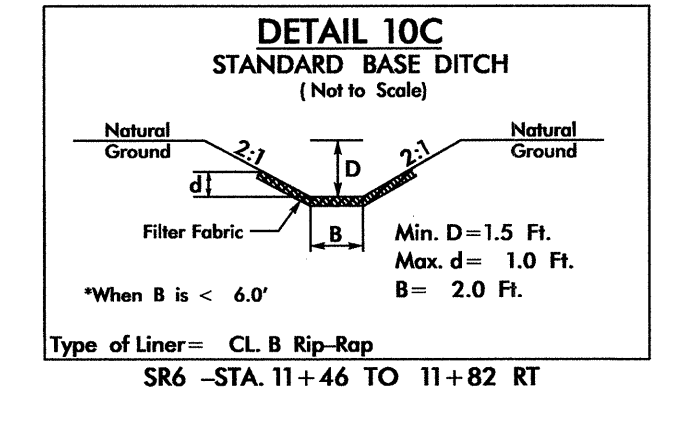
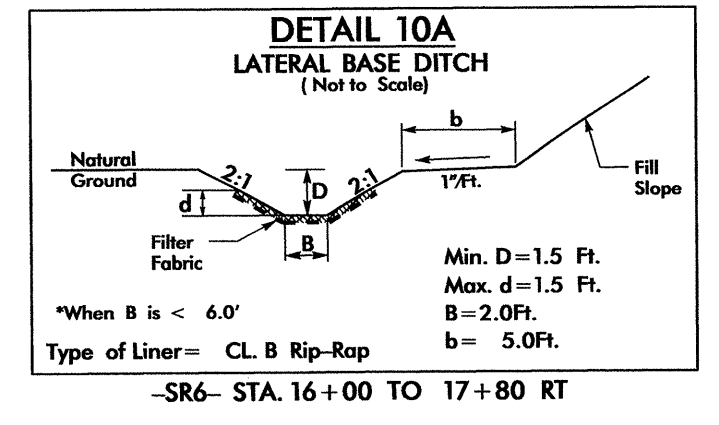
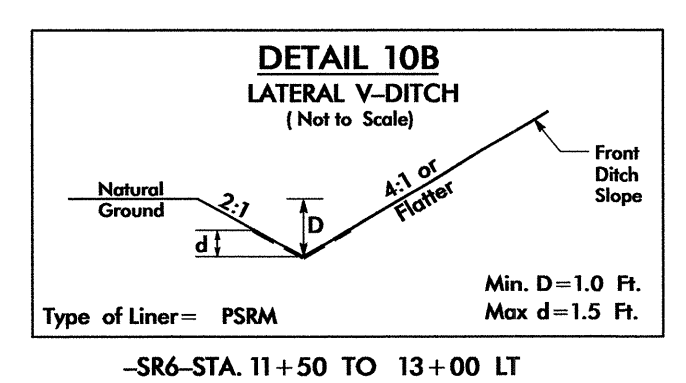
DRAWING DATE: 11/18/88



PROJECT REFERENCE NO.	SHEET NO.
R-2707AA	EC-12/CONST.10
RW SHEET NO. 23	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 10**

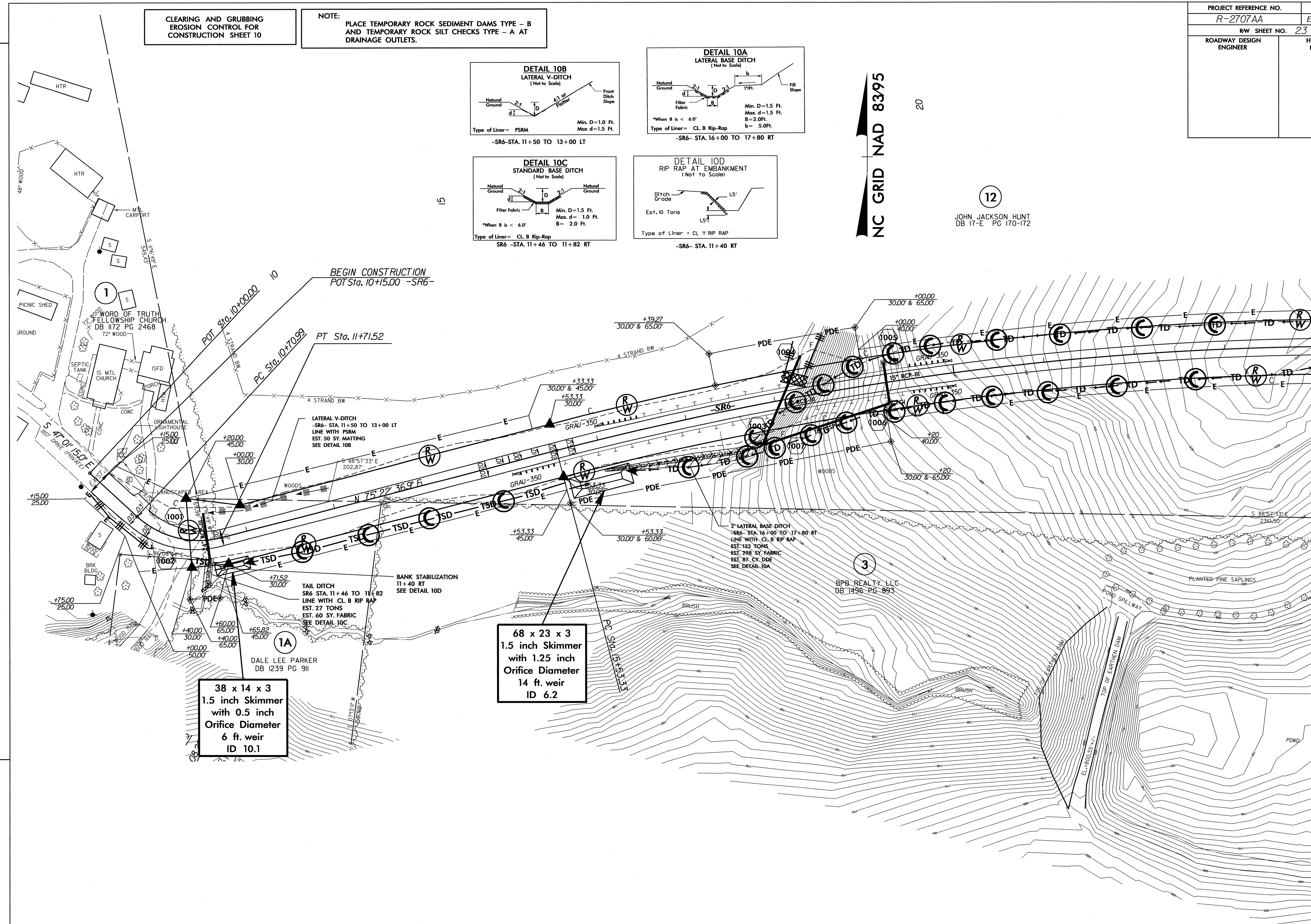
**NOTE:** PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.



NC GRID NAD 8395

12  
JOHN JACKSON HUNT  
DB 17-E PG 170-172

REVISIONS



**38 x 14 x 3**  
1.5 inch Skimmer  
with 0.5 inch  
Orifice Diameter  
6 ft. weir  
ID 10.1

**68 x 23 x 3**  
1.5 inch Skimmer  
with 1.25 inch  
Orifice Diameter  
14 ft. weir  
ID 6.2

MATCH LINE STA. 24+00.00 -SR6-  
SEE SHEET 11



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 11

25

30

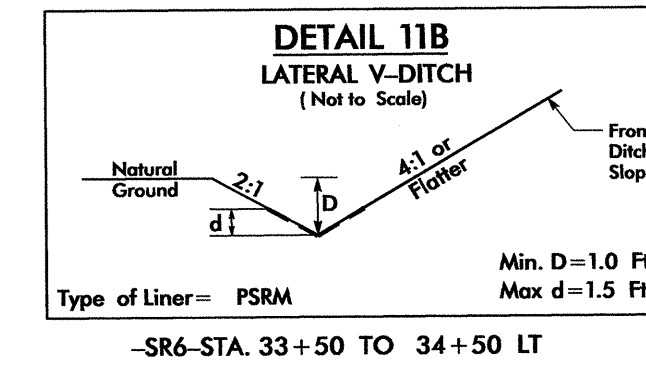
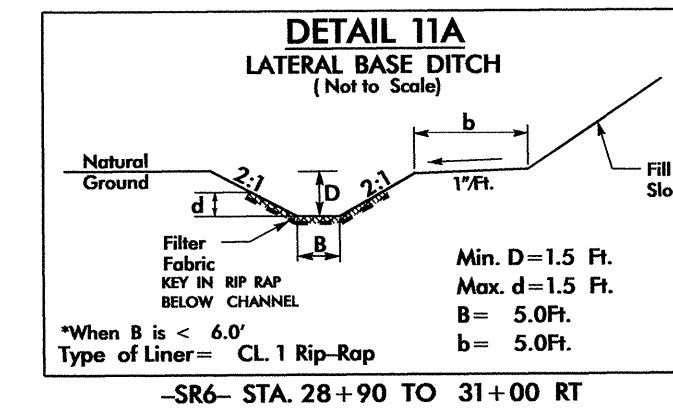
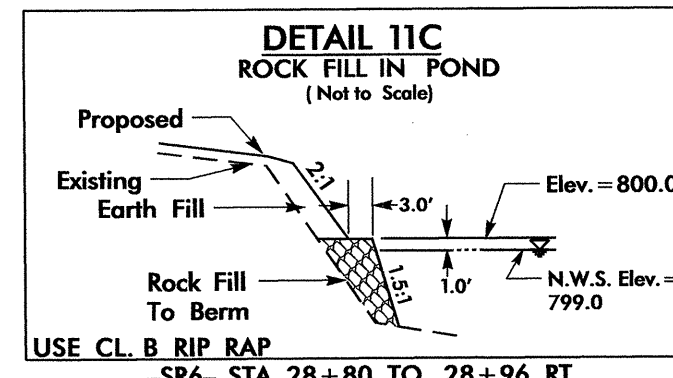
35

PROJECT REFERENCE NO. R-2707AA	SHEET NO. EC-13/CONST.11
RW SHEET NO. 24	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-SR6-  
PI Sta 20+16.41  
 $\Delta = 15^{\circ}04'26.3"$  (RT)  
 $D = 1^{\circ}38'13.3"$   
 $L = 920.82'$   
 $T = 463.08'$   
 $R = 3,500.00'$   
 $DS = 40$  MPH

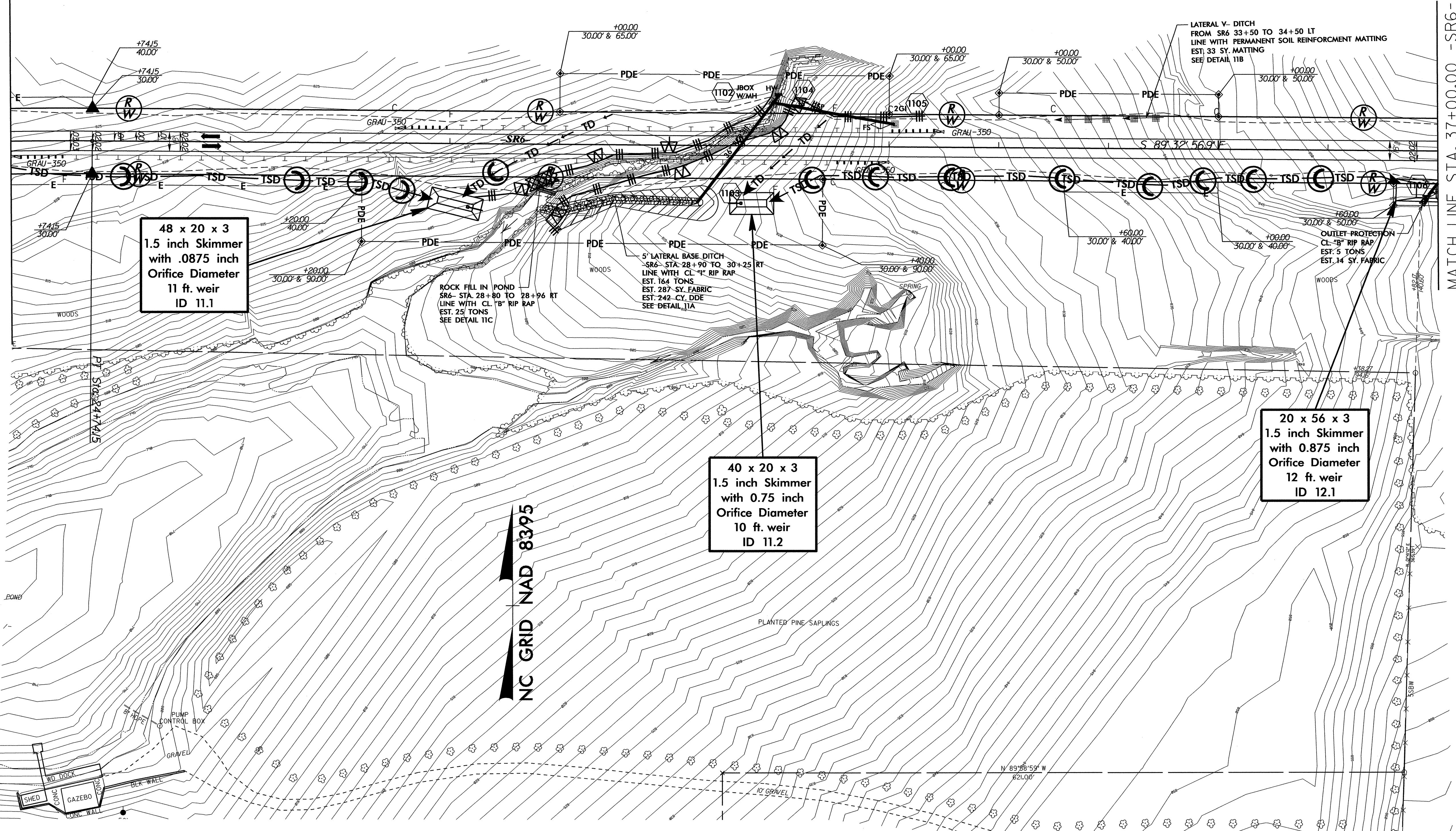
12

JOHN JACKSON HUNT  
DB 17-E PG 170-172



MATCH LINE STA. 24+00.00 -SR6-  
SEE SHEET 10

MATCH LINE STA. 37+00.00 -SR6-  
SEE SHEET 12



REVISIONS



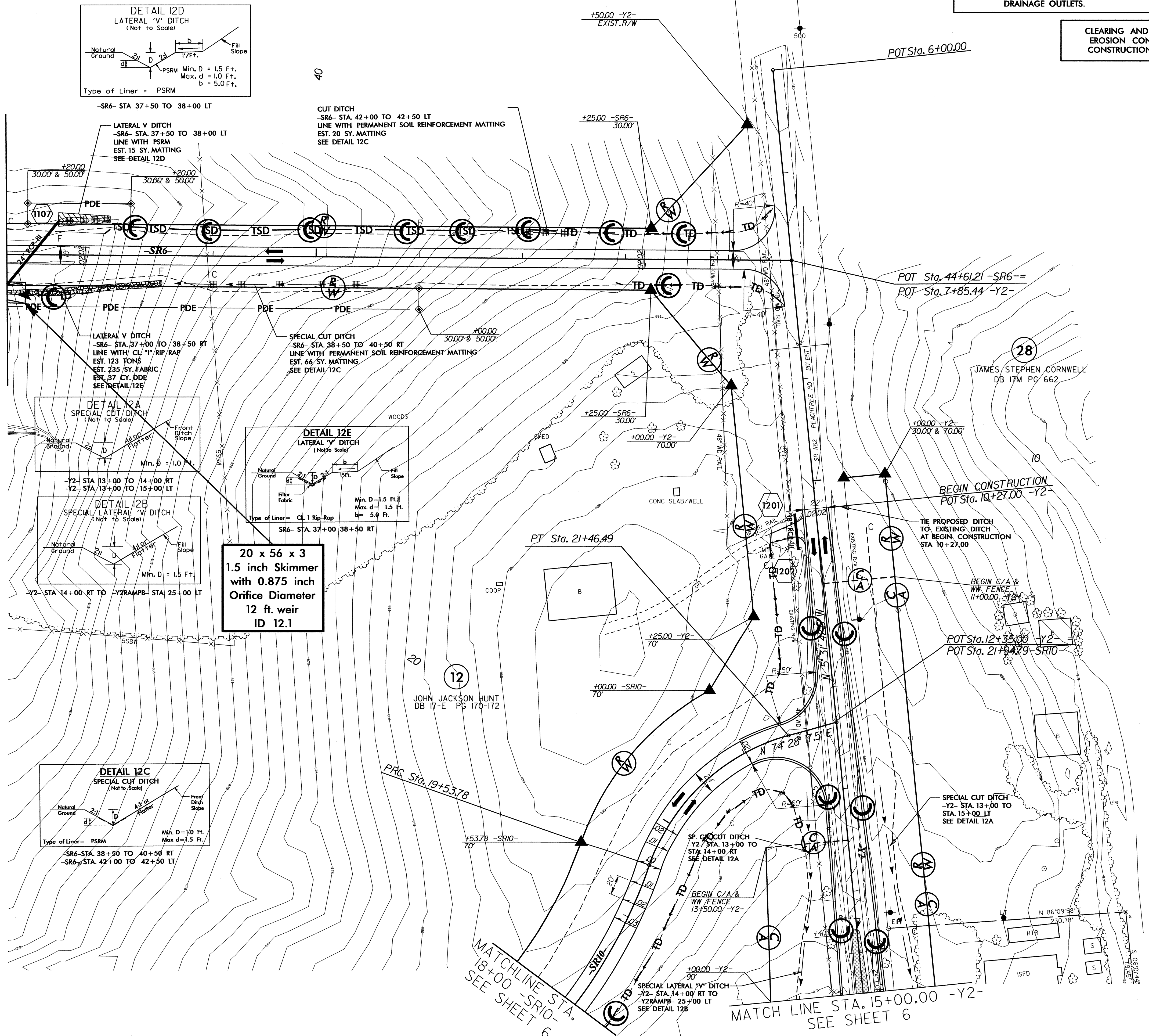
PROJECT REFERENCE NO.	SHEET NO.
R-2707AA	EC-14/CONST.12
RW SHEET NO. 18	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

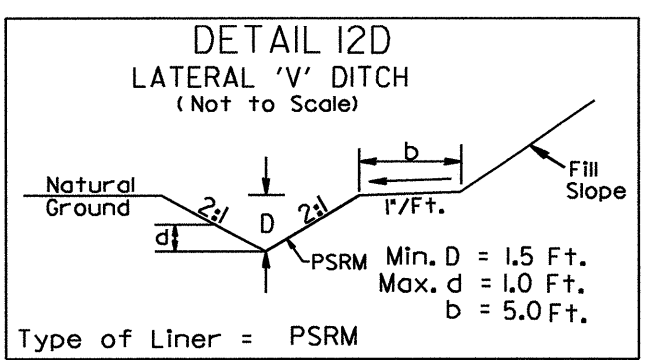
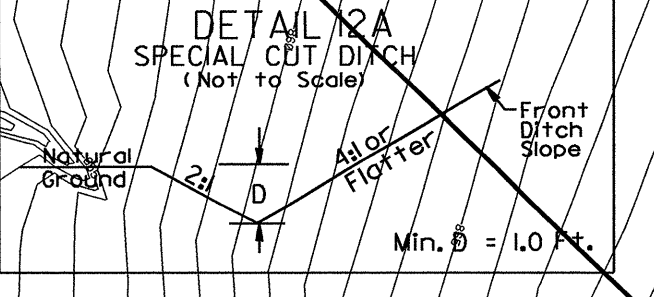
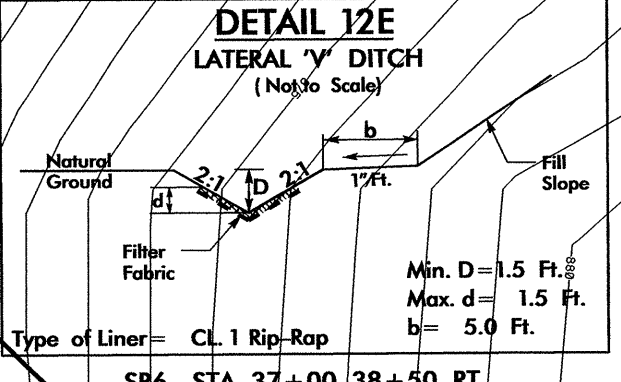
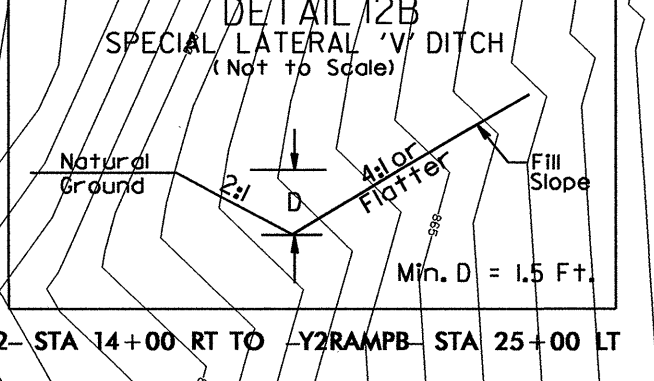
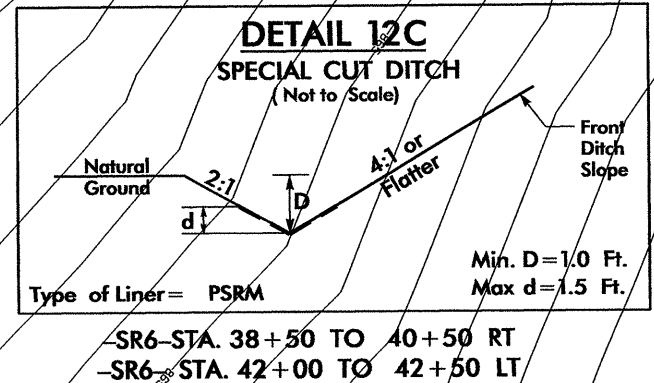
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 12

NC GRID NAD 83/95

MATCH LINE STA. 37+00.00 -SR6-  
SEE SHEET 11



**20 x 56 x 3  
1.5 inch Skimmer  
with 0.875 inch  
Orifice Diameter  
12 ft. weir  
ID 12.1**



REVISIONS

MATCHLINE STA. 18+00 -SR10-  
SEE SHEET 6

MATCH LINE STA. 15+00.00 -Y2-  
SEE SHEET 6

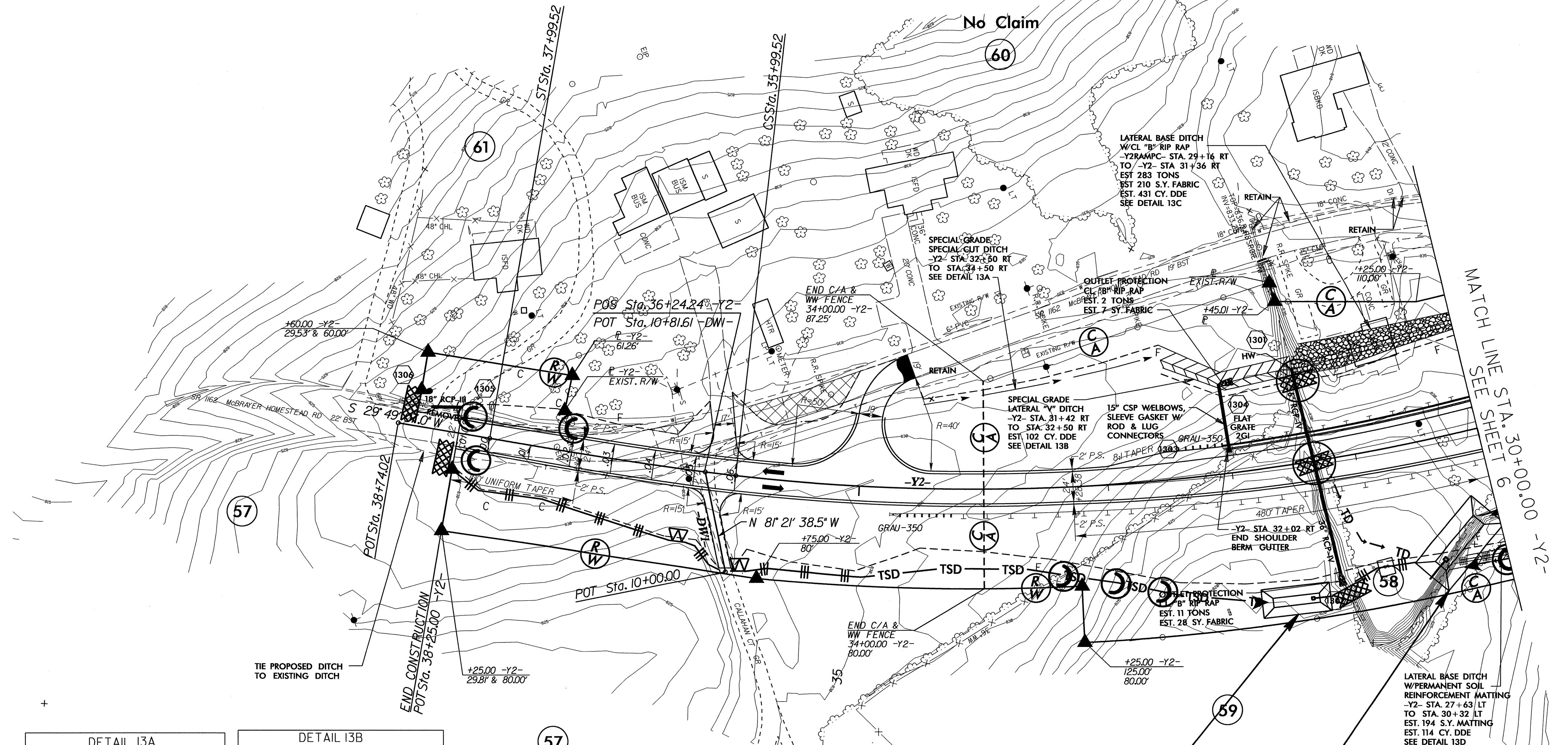


**CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 13**

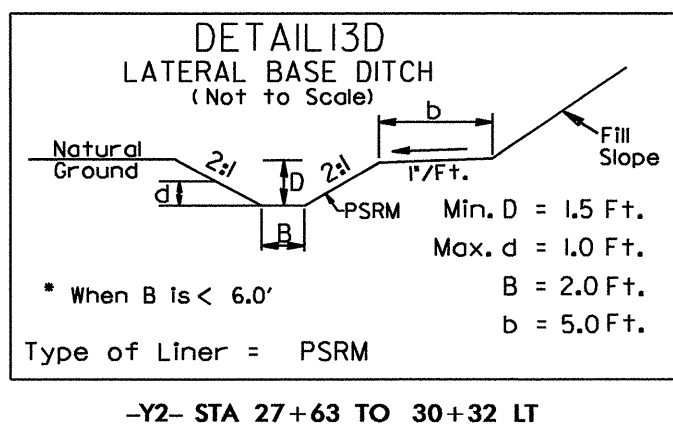
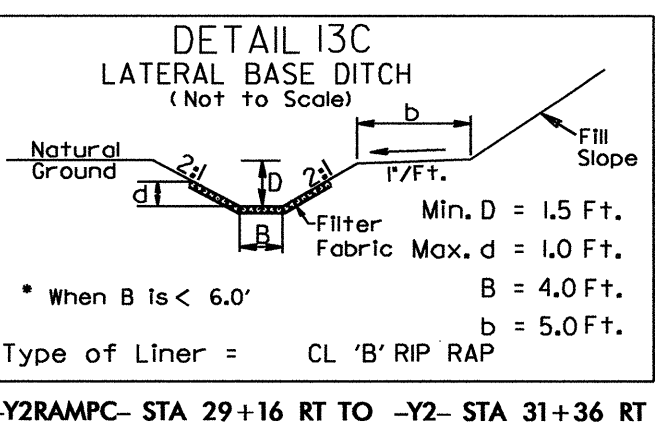
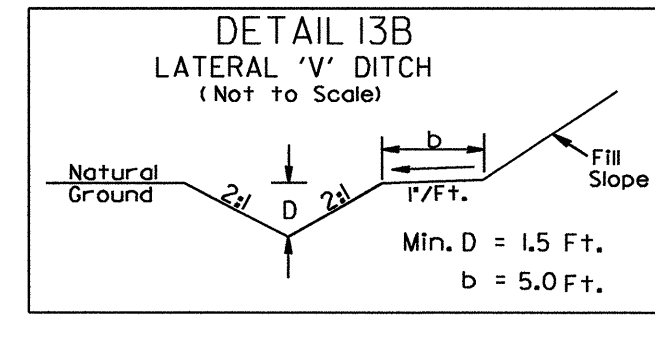
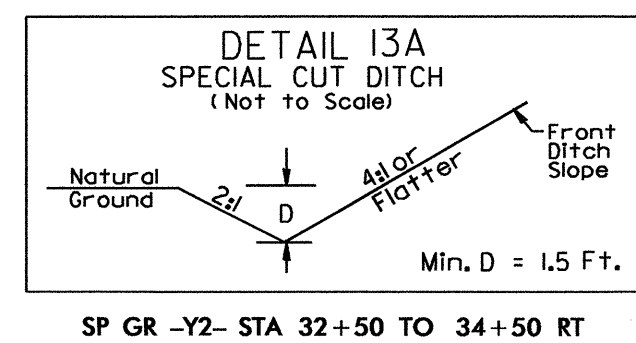
**NOTE:**  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

PROJECT REFERENCE NO. R-2707AA	SHEET NO. EC-15/CONST.13
RW SHEET NO. 19	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**NC GRID NAD 8395**



REVISIONS



**55 x 23 x 3  
1.5 inch Skimmer  
with 1.0 inch  
Orifice Diameter  
14 ft. weir  
ID 6.2**

**70 x 35 x 3  
1.5 inch Skimmer  
with 1.375 inch  
Orifice Diameter  
22 ft. weir  
ID 13.1**

30







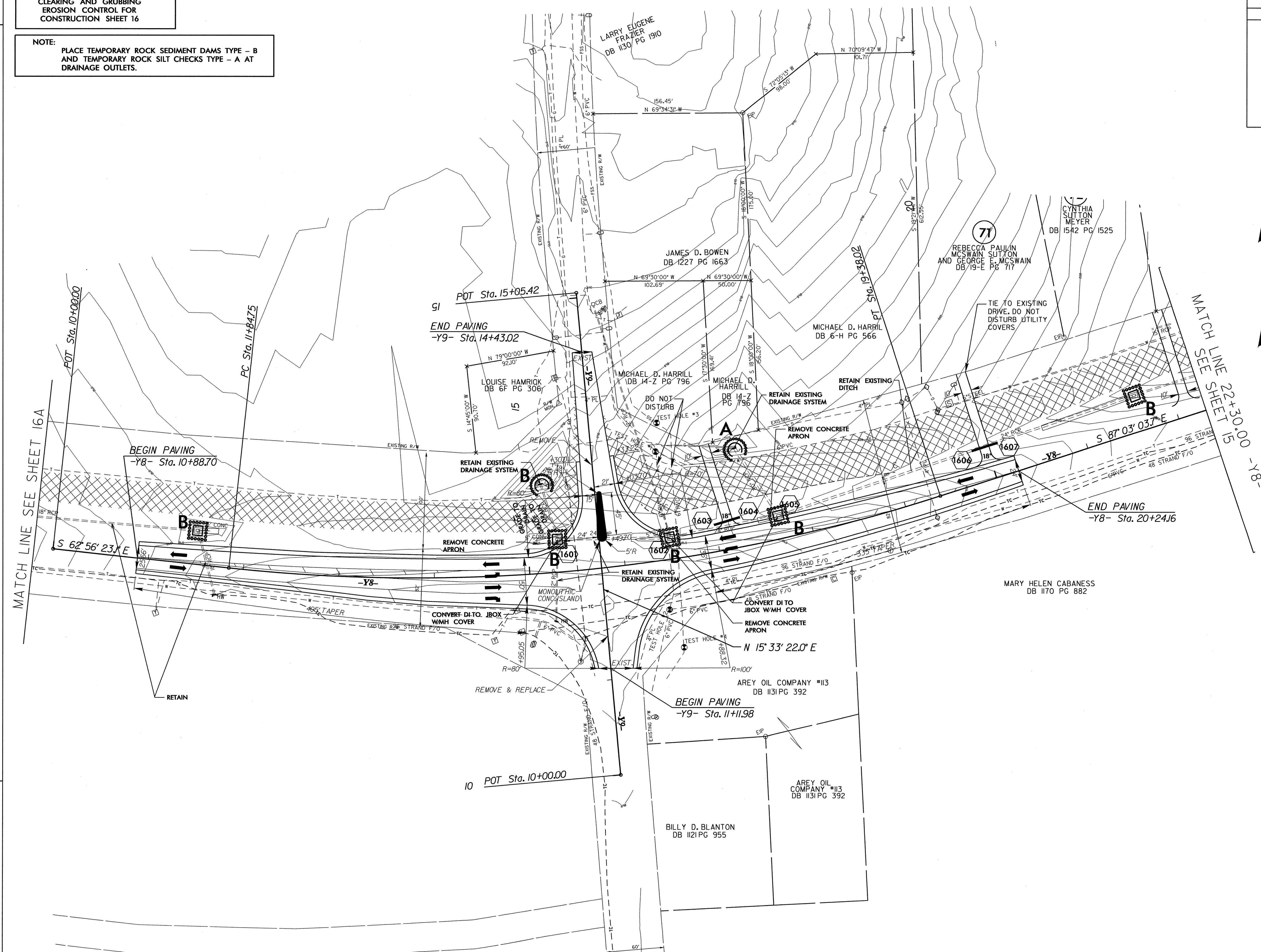


**CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 16**

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

PROJECT REFERENCE NO. R-2707AA	SHEET NO. EC-18/CONST.16
RW SHEET NO. 21A	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**NC GRID NAD 83/95**



REVISIONS

PAVEMENT REMOVAL

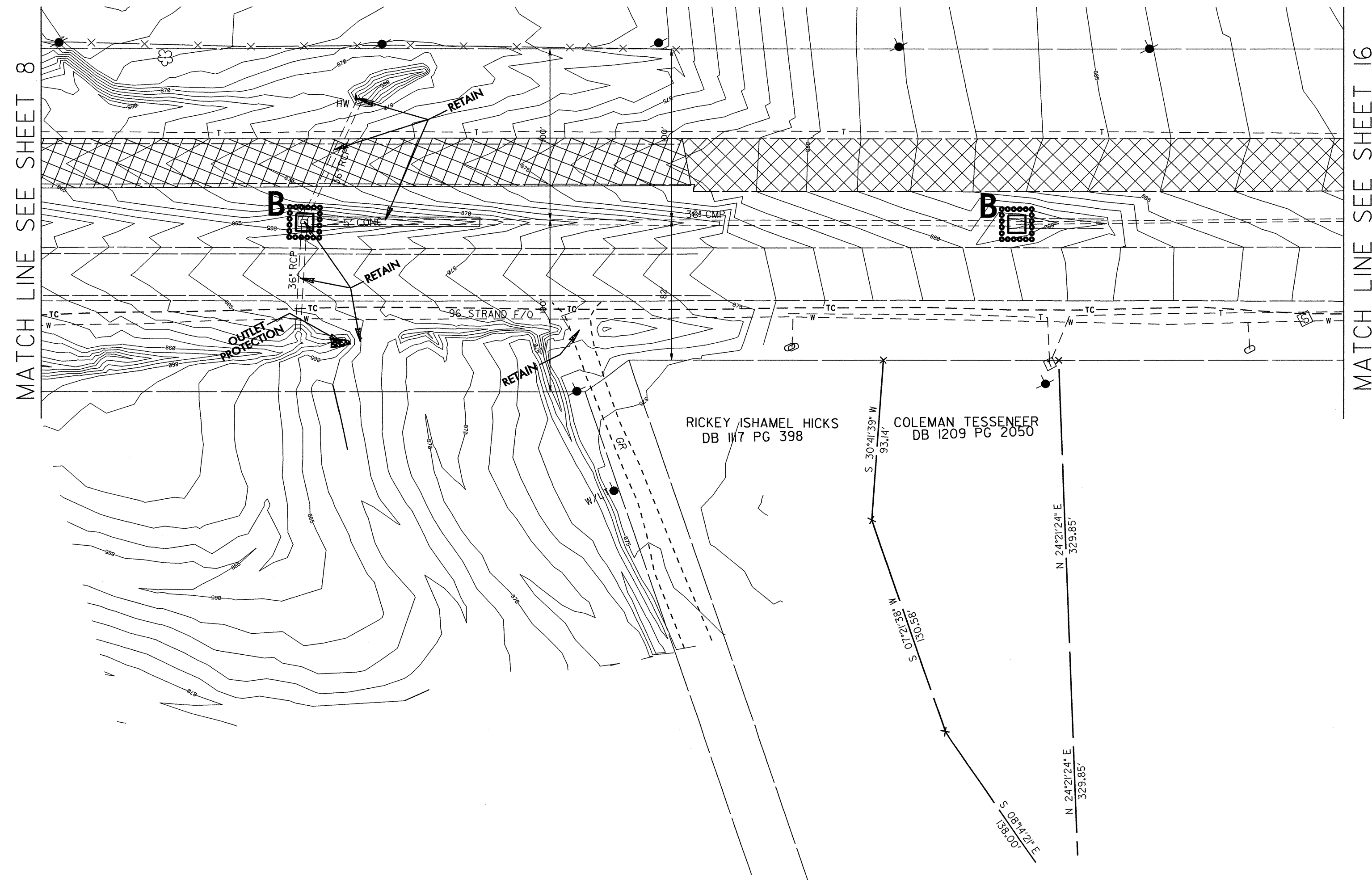


CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 16A

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

PROJECT REFERENCE NO. <i>R-2707AA</i>	SHEET NO. <i>EC-19/CONST.16A</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

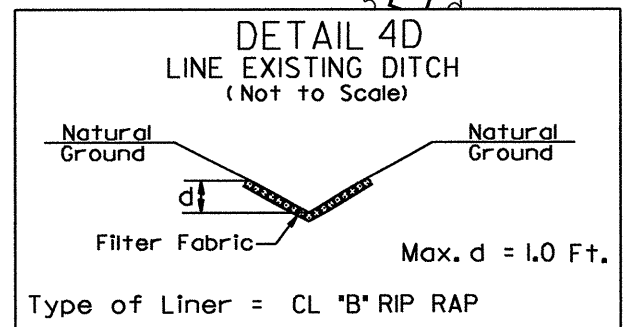
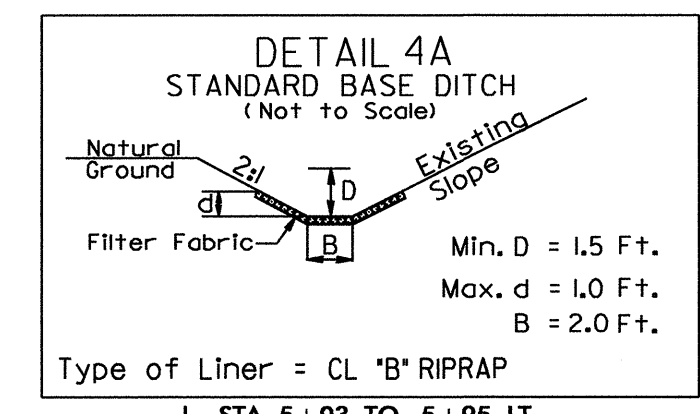
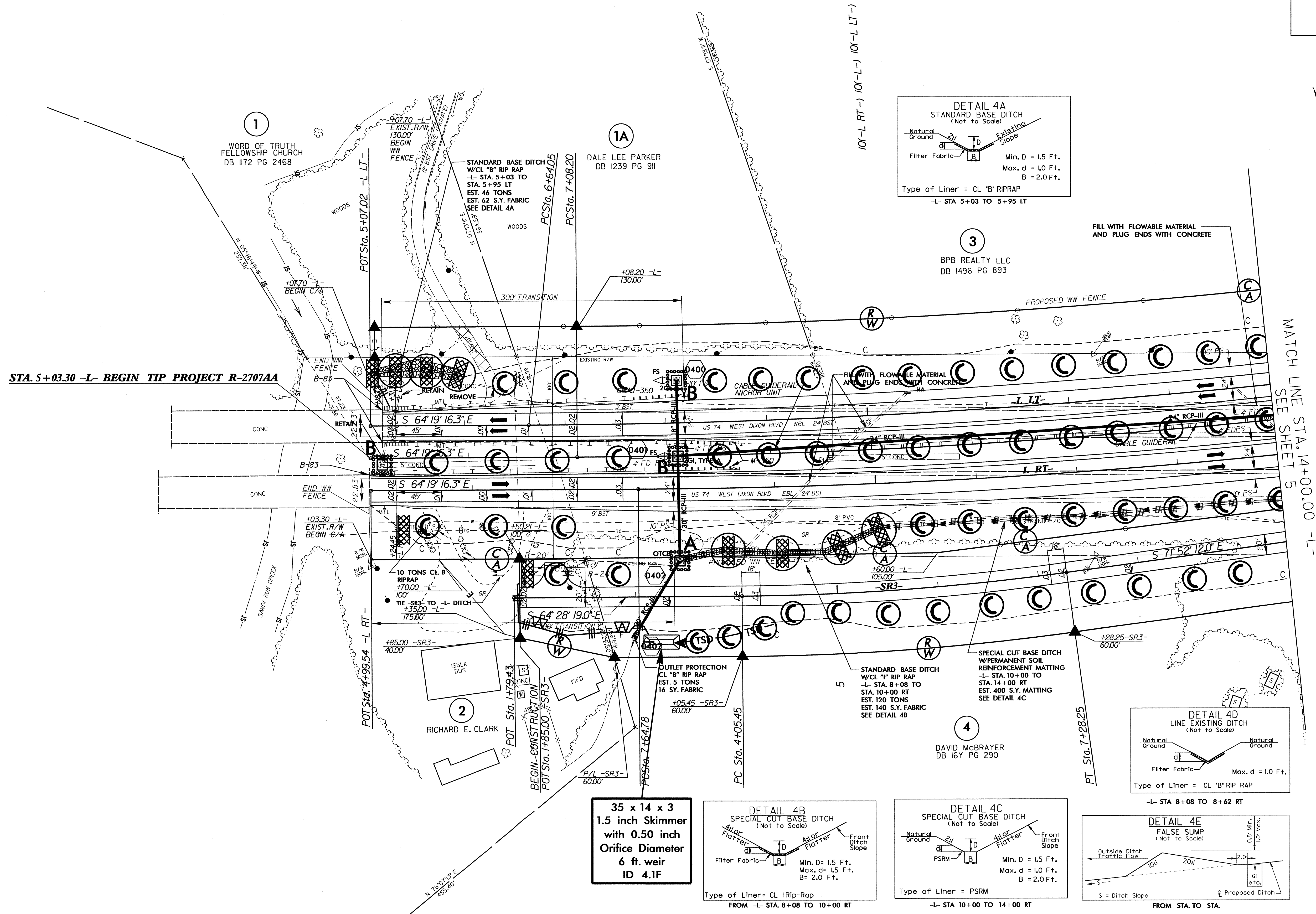


NC GRID NAD 83/95

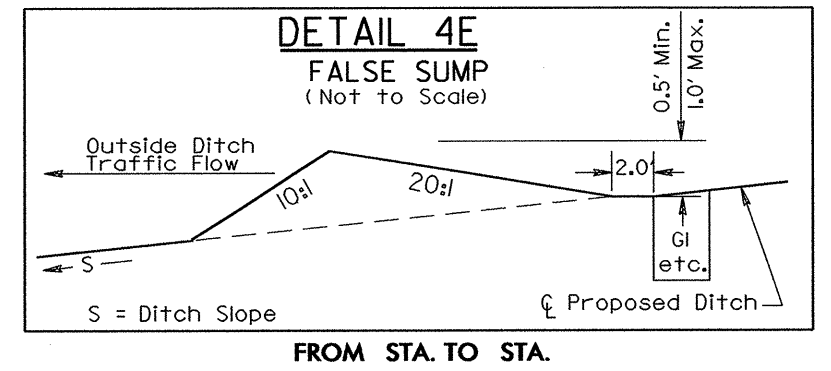
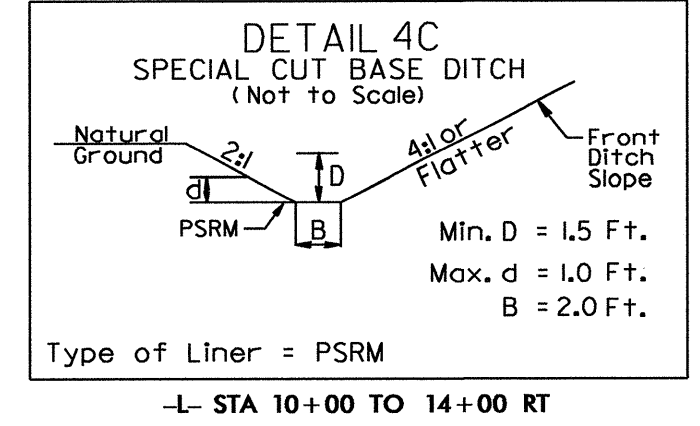
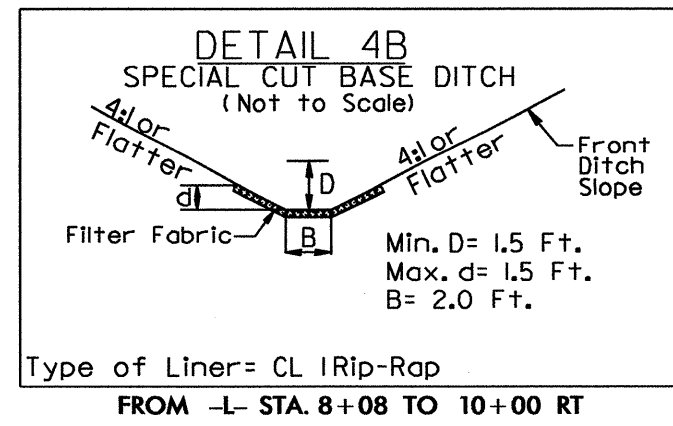
PAVEMENT REMOVAL

PROJECT REFERENCE NO.	SHEET NO.
R-2707AA	EC-20/CONST.4
RW SHEET NO. 4	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS



**35 x 14 x 3**  
1.5 inch Skimmer  
with 0.50 inch  
Orifice Diameter  
6 ft. weir  
ID 4.1F



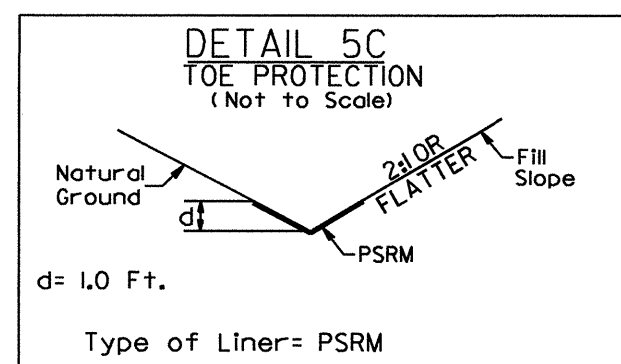
NC GRID NAD 8395

MATCH LINE STA. 14+00.00 -L-  
SEE SHEET 5

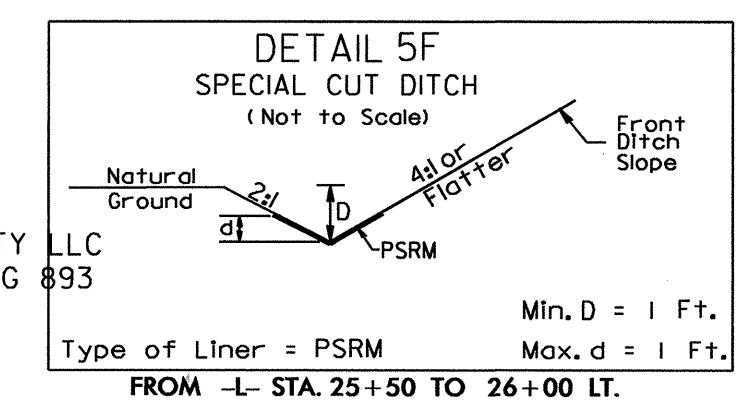
PAVEMENT REMOVAL



PROJECT REFERENCE NO. R-2707AA	SHEET NO. EC-21/CONST.5
RW SHEET NO. 5	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



40 x 19 x 4  
1.5 inch Skimmer  
with 0.875 inch  
Orifice Diameter  
11 ft. weir  
ID 5.1F



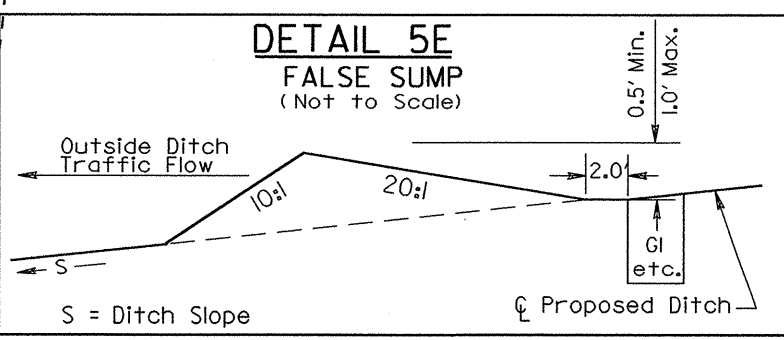
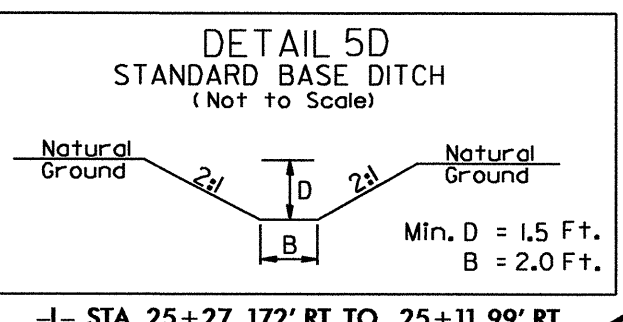
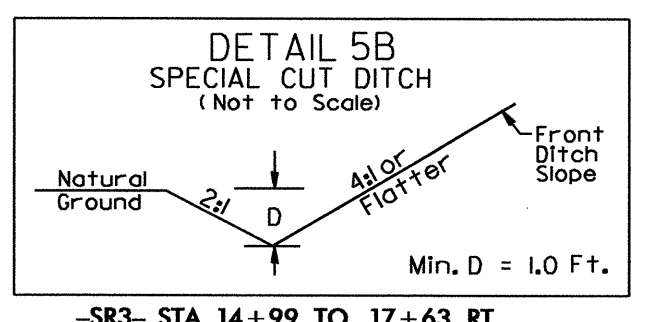
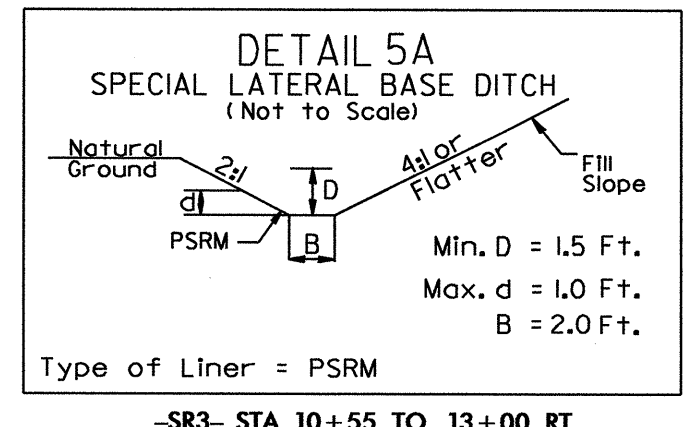
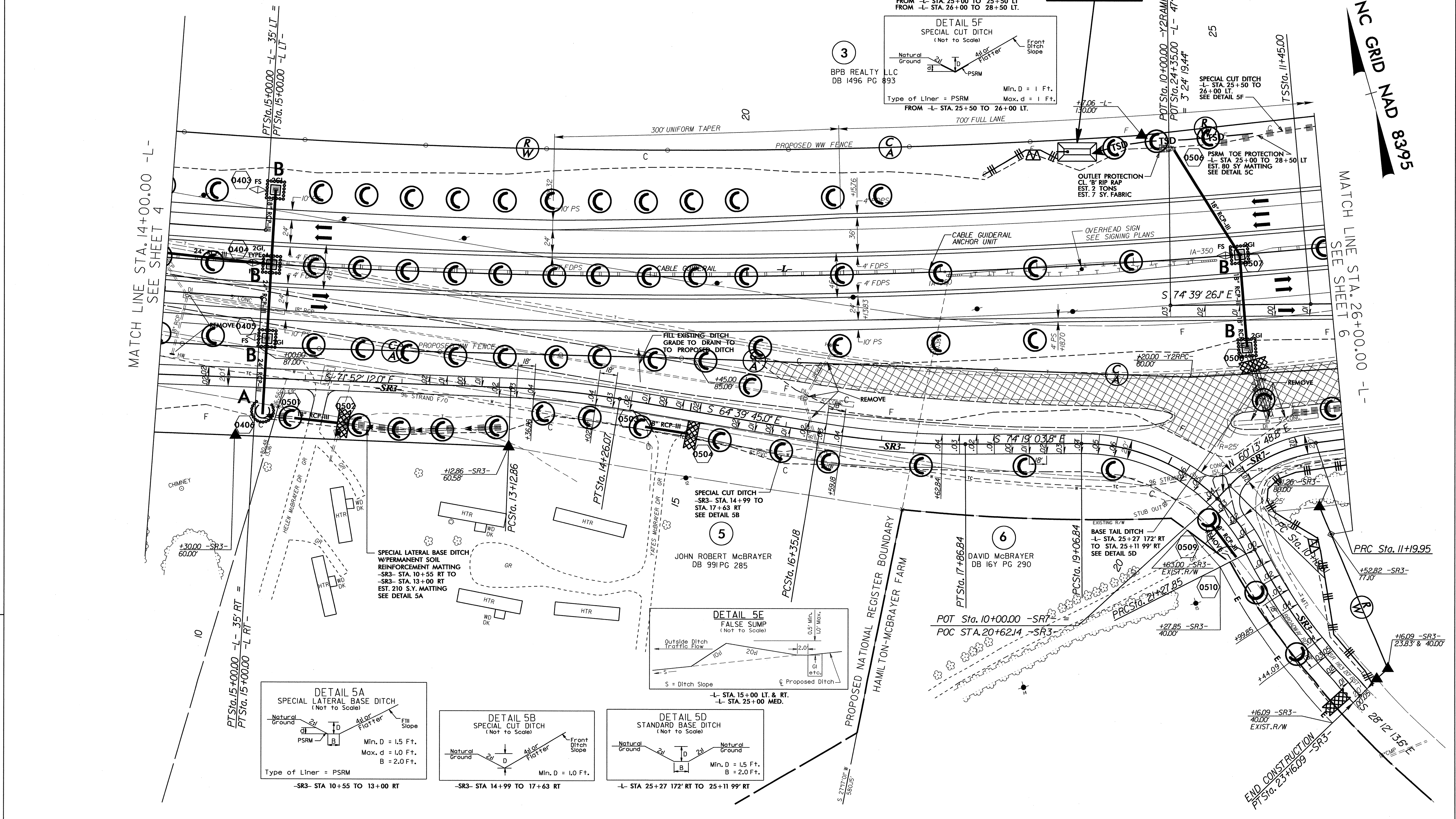
PAVEMENT REMOVAL

N/C GRID NAD 8395

MATCH LINE STA. 14+00.00 -L-  
SEE SHEET 4

MATCH LINE STA. 26+00.00 -L-  
SEE SHEET 6

REVISIONS

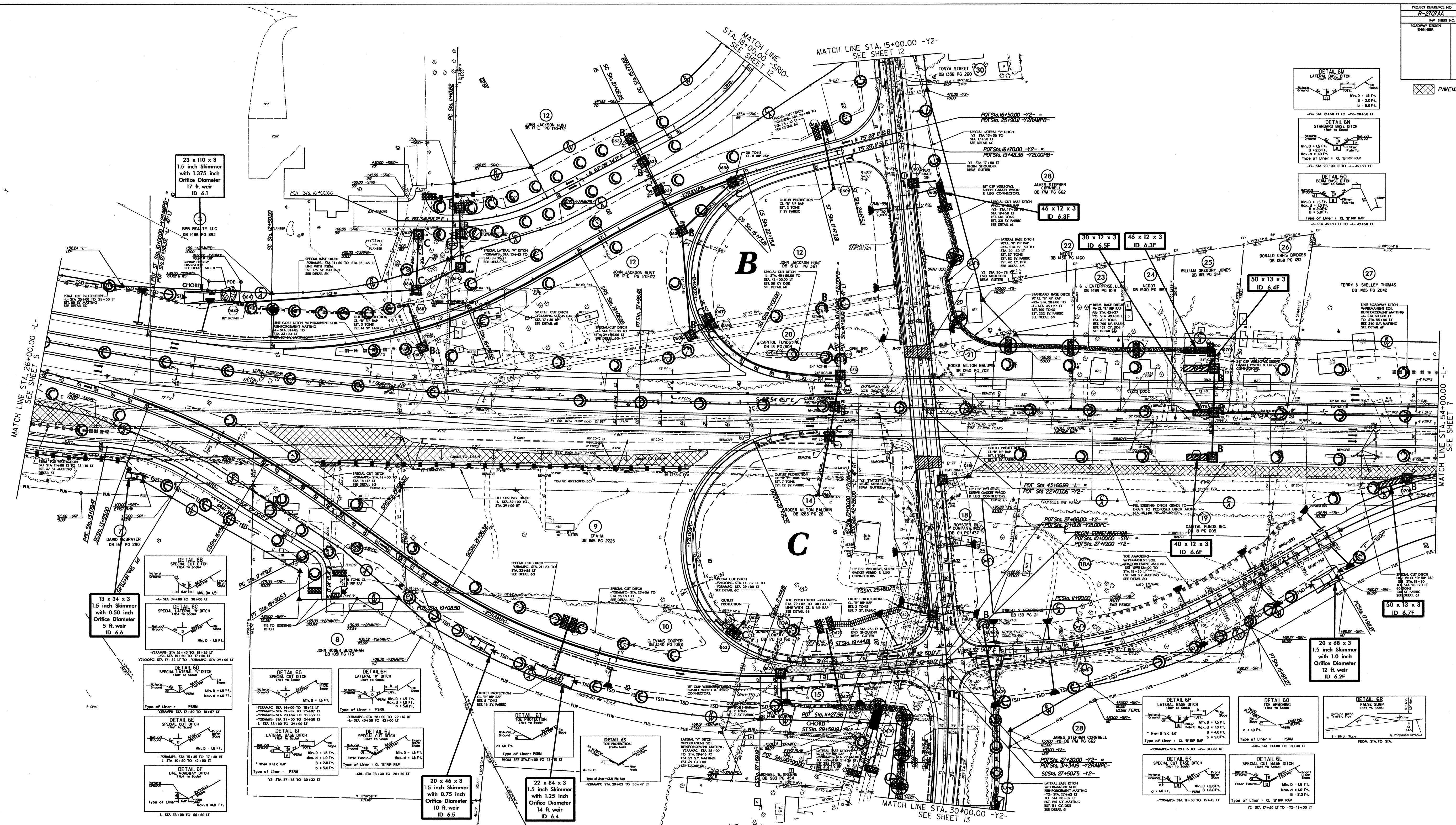


END CONSTRUCTION  
PT Sta. 23+16.09 -SR3-



PAVEMENT REMOVAL

NC GRID NAD 83/95



MATCH LINE STA. 26+00.00 -L-  
 SEE SHEET 5

MATCH LINE STA. 15+00.00 -Y2-  
 SEE SHEET 12

MATCH LINE STA. 30+00.00 -Y2-  
 SEE SHEET 13

23 x 110 x 3  
 1.5 inch Skimmer  
 with 1.375 inch  
 Orifice Diameter  
 17 ft. weir  
 ID 6.1

13 x 34 x 3  
 1.5 inch Skimmer  
 with 0.50 inch  
 Orifice Diameter  
 5 ft. weir  
 ID 6.6

20 x 46 x 3  
 1.5 inch Skimmer  
 with 0.75 inch  
 Orifice Diameter  
 10 ft. weir  
 ID 6.5

22 x 84 x 3  
 1.5 inch Skimmer  
 with 1.25 inch  
 Orifice Diameter  
 14 ft. weir  
 ID 6.4

46 x 12 x 3  
 ID 6.3F

30 x 12 x 3  
 ID 6.5F

46 x 12 x 3  
 ID 6.3F

50 x 13 x 3  
 ID 6.4F

40 x 12 x 3  
 ID 6.6F

50 x 13 x 3  
 ID 6.7F

20 x 68 x 3  
 1.5 inch Skimmer  
 with 1.0 inch  
 Orifice Diameter  
 12 ft. weir  
 ID 6.2F

DETAIL 6B  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6C  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6D  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6E  
 LATERAL BASE DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6G  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6H  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6I  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6J  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6K  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6L  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6M  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6N  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6O  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6P  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6Q  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6R  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6S  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6T  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6U  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6V  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6W  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6X  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6Y  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6Z  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6AA  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6AB  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6AC  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6AD  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6AE  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6AF  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6AG  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6AH  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6AI  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6AJ  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

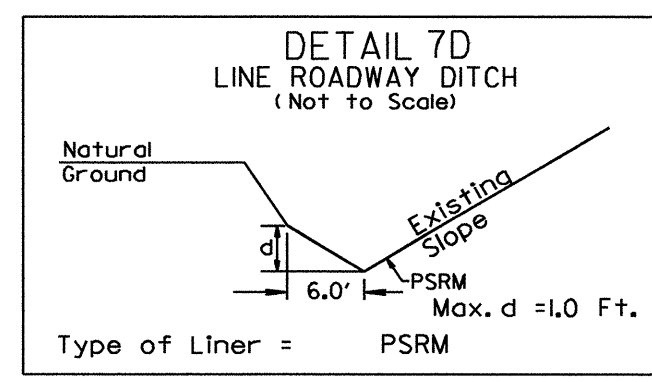
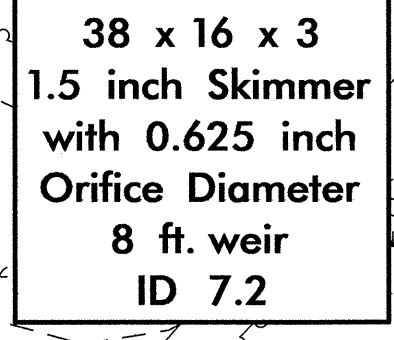
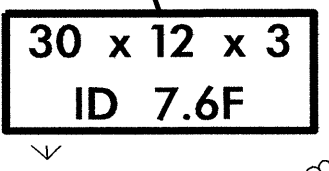
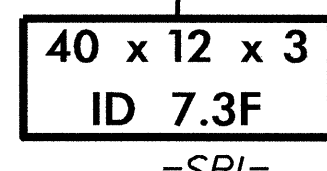
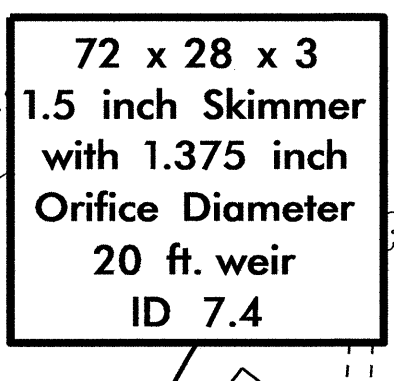
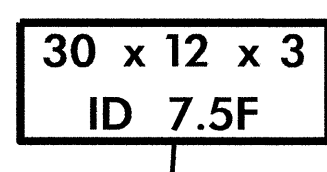
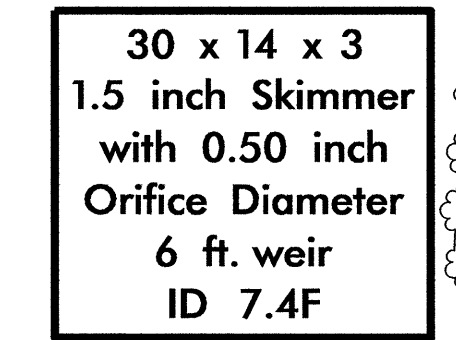
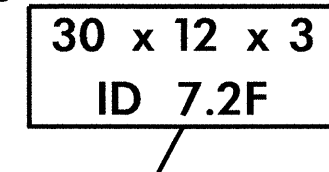
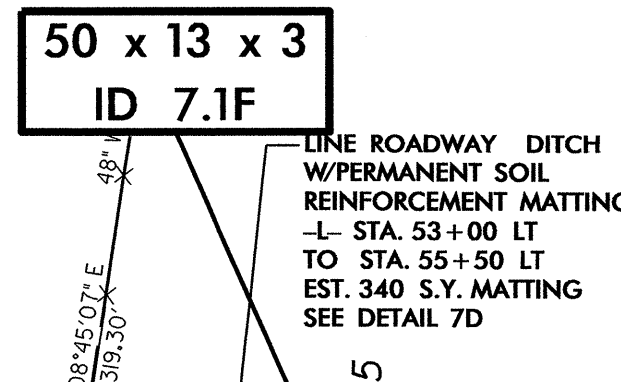
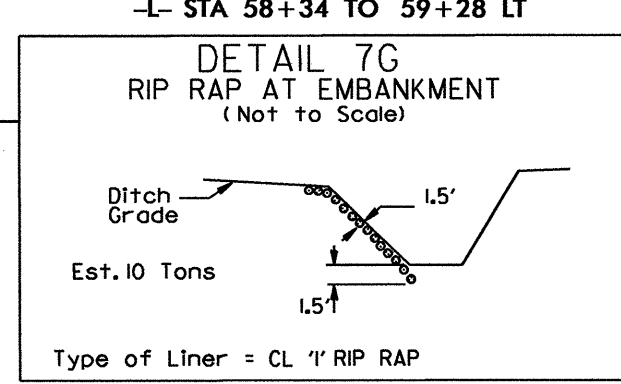
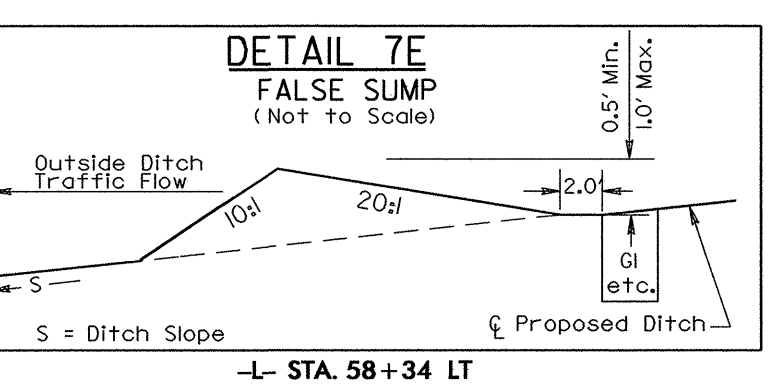
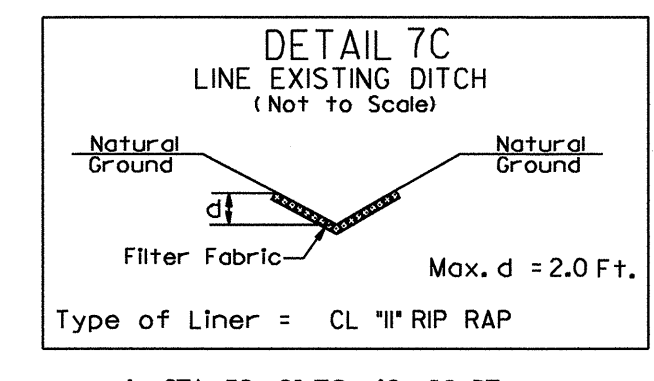
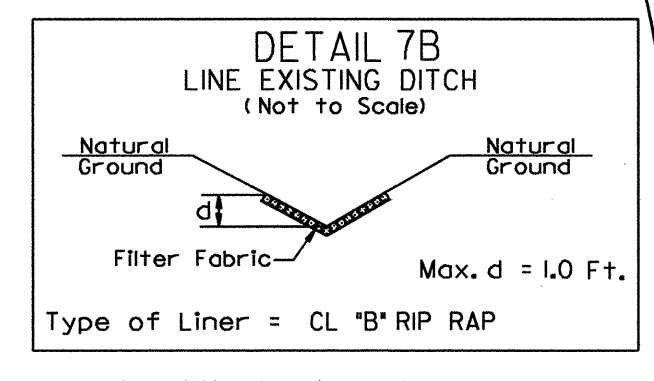
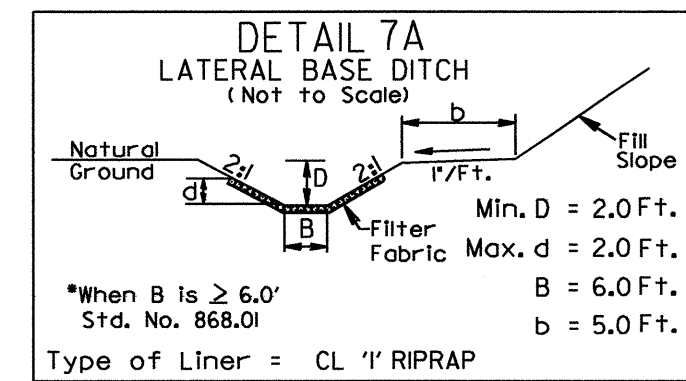
DETAIL 6AK  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM

DETAIL 6AL  
 SPECIAL CUT DITCH  
 1:1 to 1:1  
 MIN. D = 1.5 FT.  
 MIN. W = 1.5 FT.  
 Type of Liner = PSJM



PROJECT REFERENCE NO. R-2707AA	SHEET NO. EC-23/CONST.7
RW SHEET NO. 7	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NC GRID NAD 8395



PI Sta 13+94.55 Δ = 25° 36' 32.8" (LT) D = 6' 21" 58.3" L = 402.27' T = 204.55' R = 900.00' DS = 50 MPH

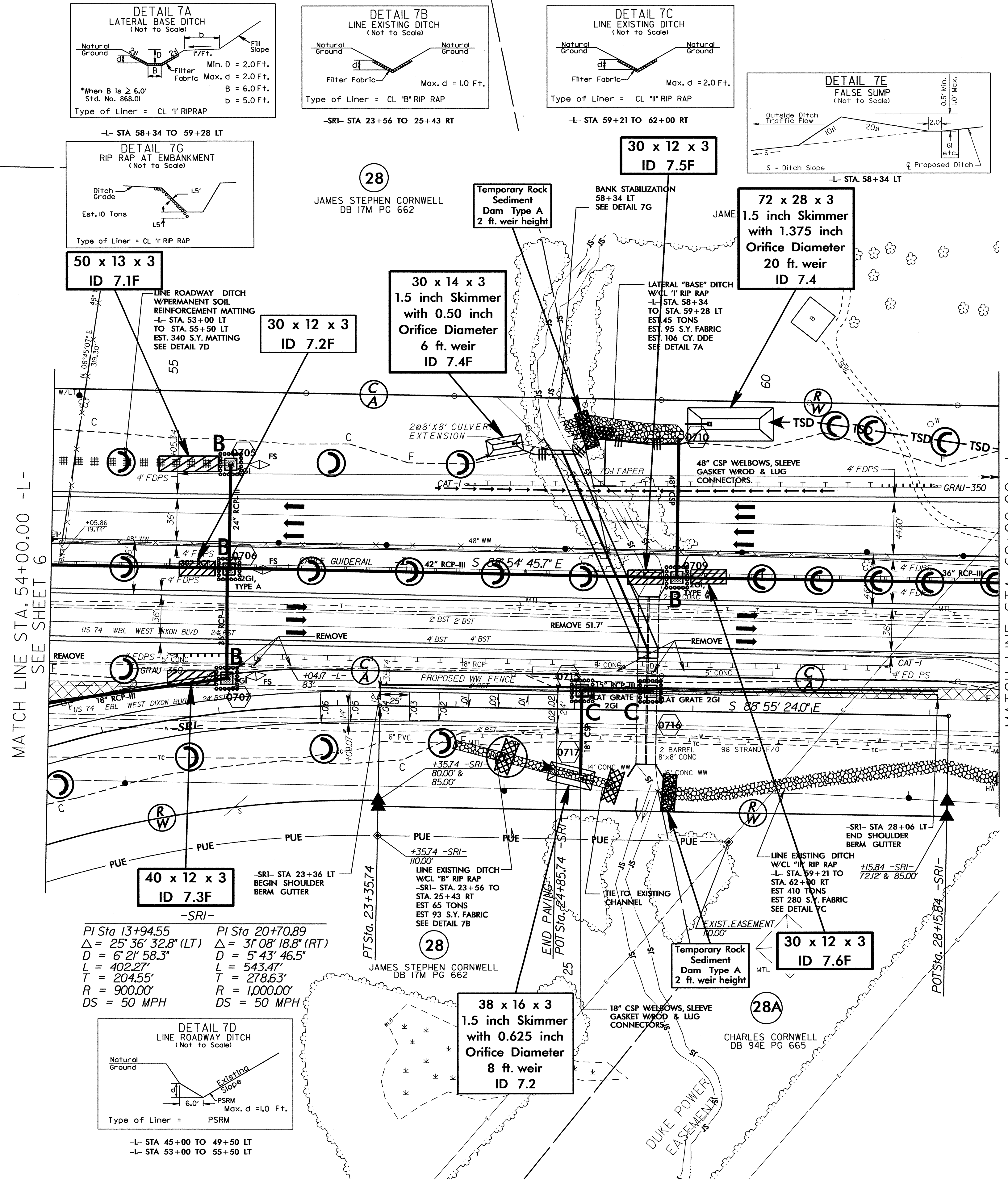
PI Sta 20+70.89 Δ = 31° 08' 18.8" (RT) D = 5' 43" 46.5" L = 543.47' T = 278.63' R = 1,000.00' DS = 50 MPH

MATCH LINE STA. 54+00.00 -L- SEE SHEET 6

MATCH LINE STA. 62+00.00 -L- SEE SHEET 8

PAVEMENT REMOVAL

REVISIONS



JAMES STEPHEN CORNWELL DB 17M PG 662

JAMES STEPHEN CORNWELL DB 17M PG 662

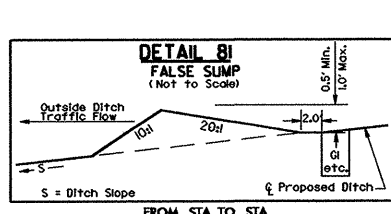
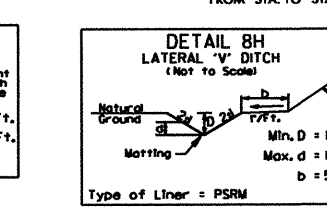
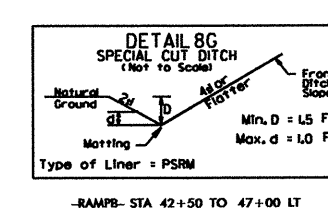
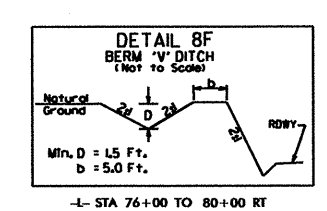
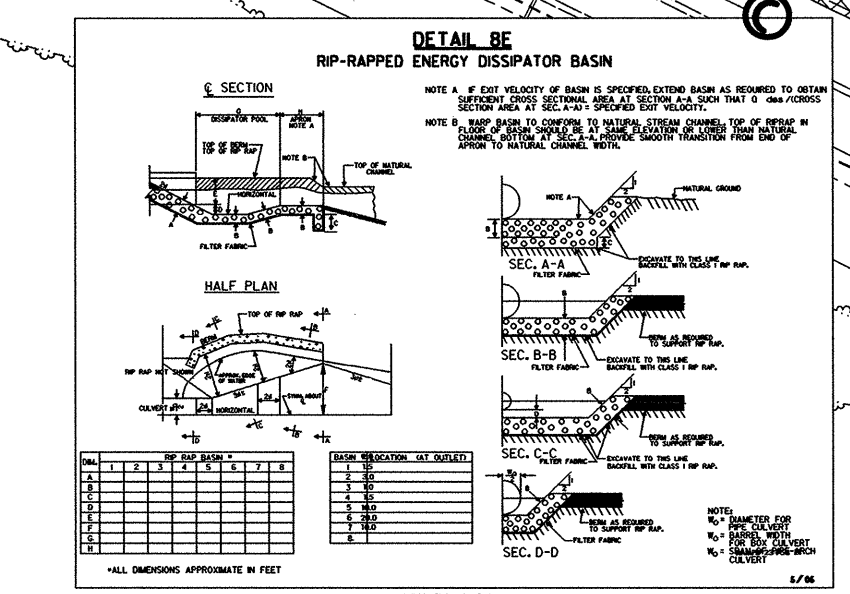
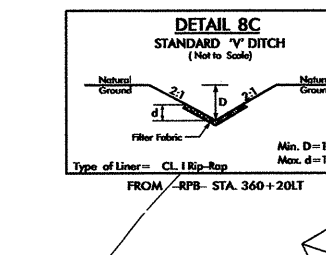
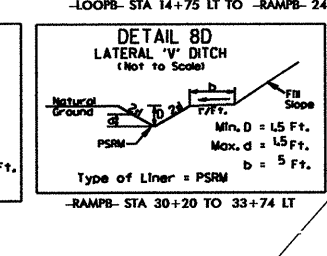
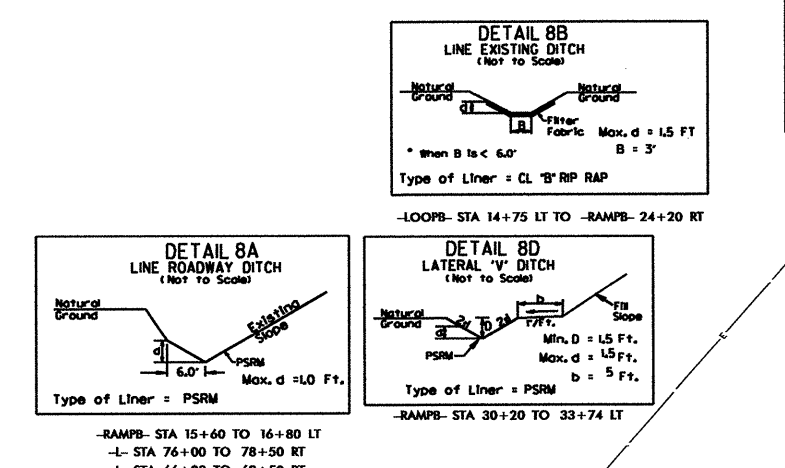
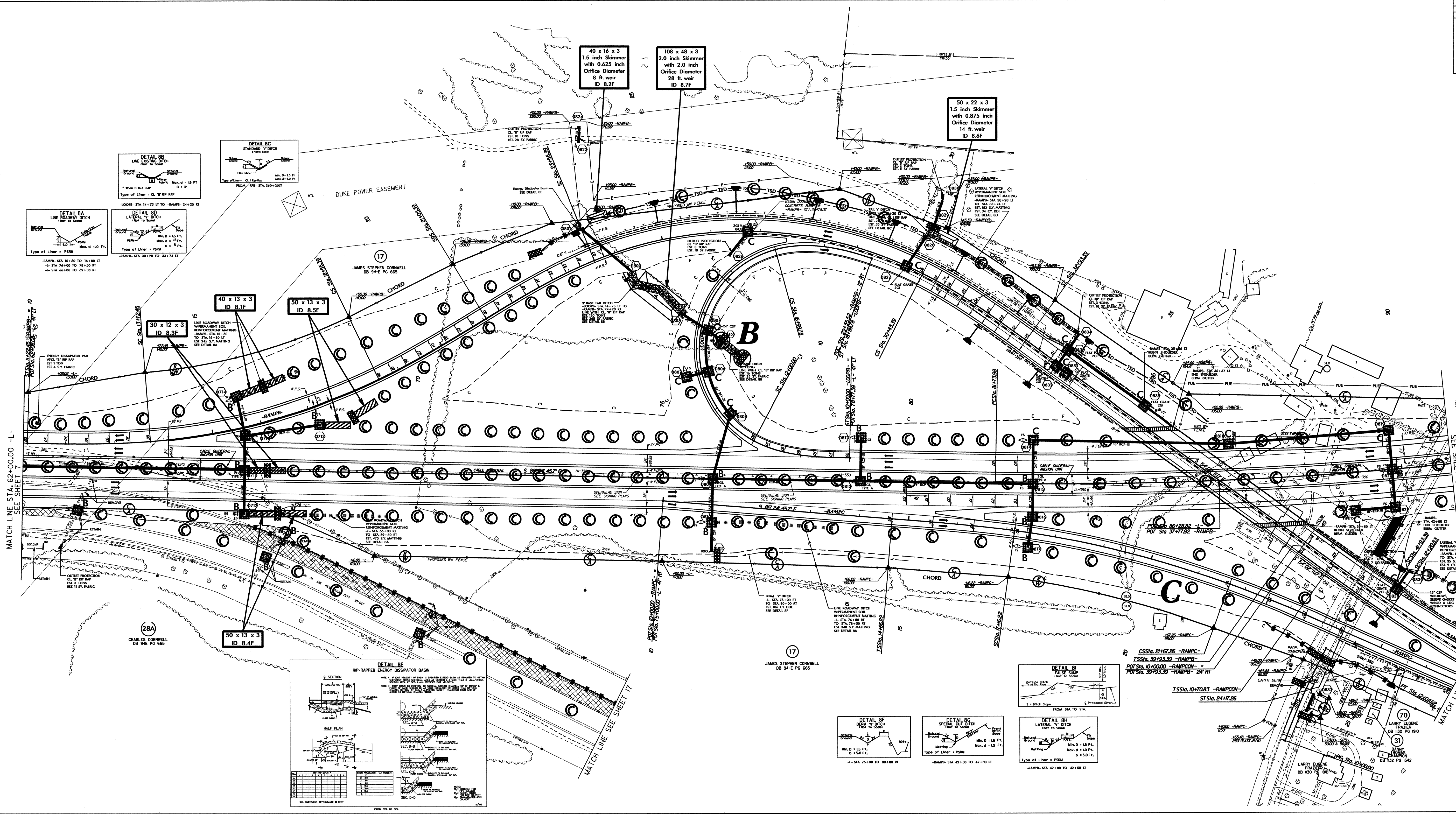
CHARLES CORNWELL DB 94E PG 665

DUKE POWER EASEMENT



PAVEMENT REMOVAL

NC GRID NAD 8395



MATCH LINE STA. 62+00.00 -L-

MATCH LINE STA. 91+00.00 -L-

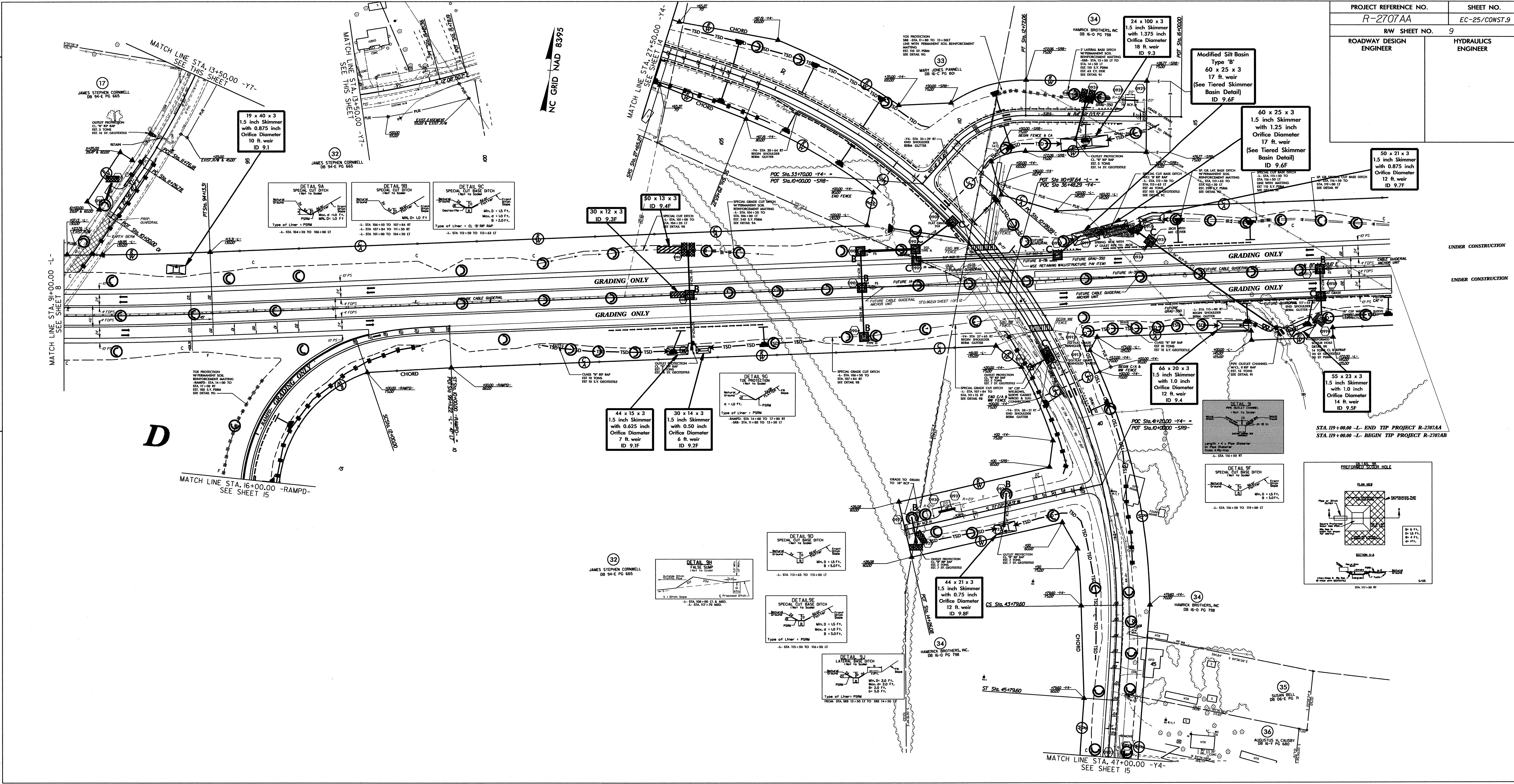
MATCH LINE STA. 44+00.00 -L-

REVISIONS

DATE: 05/14/14  
DRAWN: J. W. WILSON  
CHECKED: J. W. WILSON  
APPROVED: J. W. WILSON



PROJECT REFERENCE NO.	SHEET NO.
R-2707AA	EC-25/CONST.9
RW SHEET NO. 9	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



19 x 40 x 3  
1.5 inch Skimmer  
with 0.875 inch  
Orifice Diameter  
10 ft. weir  
ID 9.1

30 x 12 x 3  
ID 9.3F

50 x 13 x 3  
ID 9.4F

44 x 15 x 3  
1.5 inch Skimmer  
with 0.625 inch  
Orifice Diameter  
7 ft. weir  
ID 9.1F

30 x 14 x 3  
1.5 inch Skimmer  
with 0.50 inch  
Orifice Diameter  
6 ft. weir  
ID 9.2F

24 x 100 x 3  
1.5 inch Skimmer  
with 1.375 inch  
Orifice Diameter  
18 ft. weir  
ID 9.3

Modified Silt Basin  
Type 'B'  
60 x 25 x 3  
17 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 9.6F

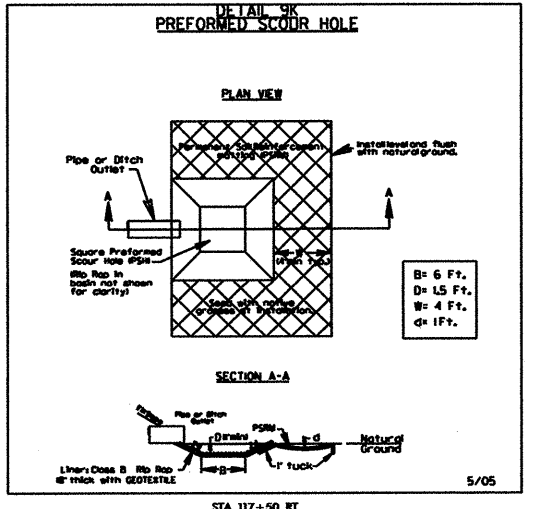
60 x 25 x 3  
1.5 inch Skimmer  
with 1.25 inch  
Orifice Diameter  
17 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 9.6F

50 x 21 x 3  
1.5 inch Skimmer  
with 0.875 inch  
Orifice Diameter  
12 ft. weir  
ID 9.7F

64 x 20 x 3  
1.5 inch Skimmer  
with 1.0 inch  
Orifice Diameter  
12 ft. weir  
ID 9.4

55 x 23 x 3  
1.5 inch Skimmer  
with 1.0 inch  
Orifice Diameter  
14 ft. weir  
ID 9.5F

44 x 21 x 3  
1.5 inch Skimmer  
with 0.75 inch  
Orifice Diameter  
12 ft. weir  
ID 9.8F



STA. 119+00.00 -L- END TIP PROJECT R-2707AA  
STA. 119+00.00 -L- BEGIN TIP PROJECT R-2707AB

MATCH LINE STA. 9+00.00 -L-  
SEE SHEET 8

**D**

MATCH LINE STA. 16+00.00 -RAMPD-  
SEE SHEET 15

MATCH LINE STA. 27+50.00 -Y4-  
SEE SHEET 14

MATCH LINE STA. 47+00.00 -Y4-  
SEE SHEET 15

UNDER CONSTRUCTION

UNDER CONSTRUCTION

DATE: 01/14/14  
DRAWN BY: JSC  
CHECKED BY: JSC







PROJECT REFERENCE NO.	SHEET NO.
R-2707AA	EC-27/CONST.II
RW SHEET NO. 24	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

25

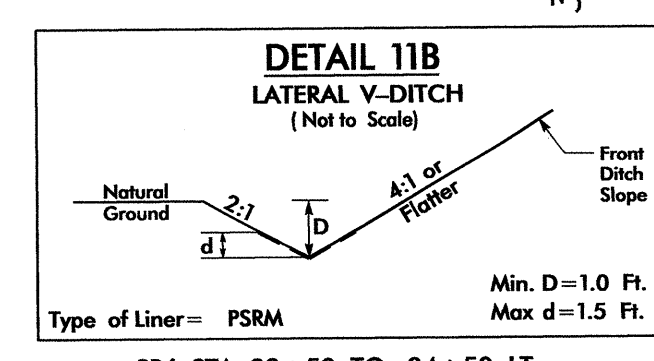
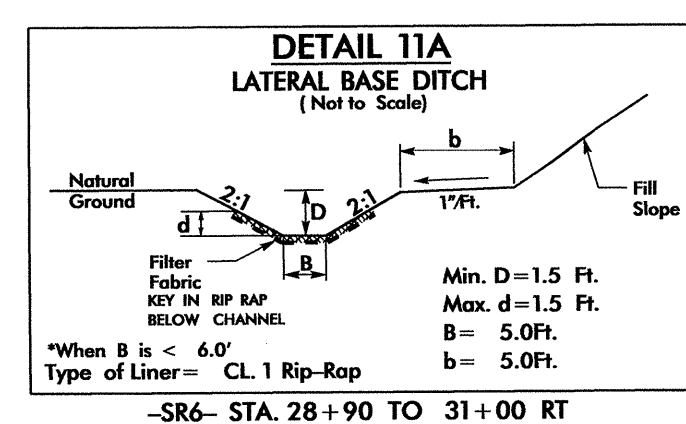
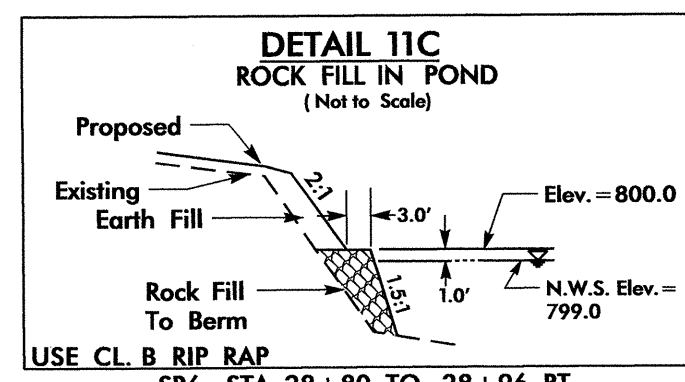
30

35

-SR6-  
 PI Sta 20+16.41  
 $\Delta = 15^{\circ}04'26.3"$  (RT)  
 $D = 1^{\circ}38'13.3"$   
 $L = 920.82'$   
 $T = 463.08'$   
 $R = 3,500.00'$   
 $DS = 40$  MPH

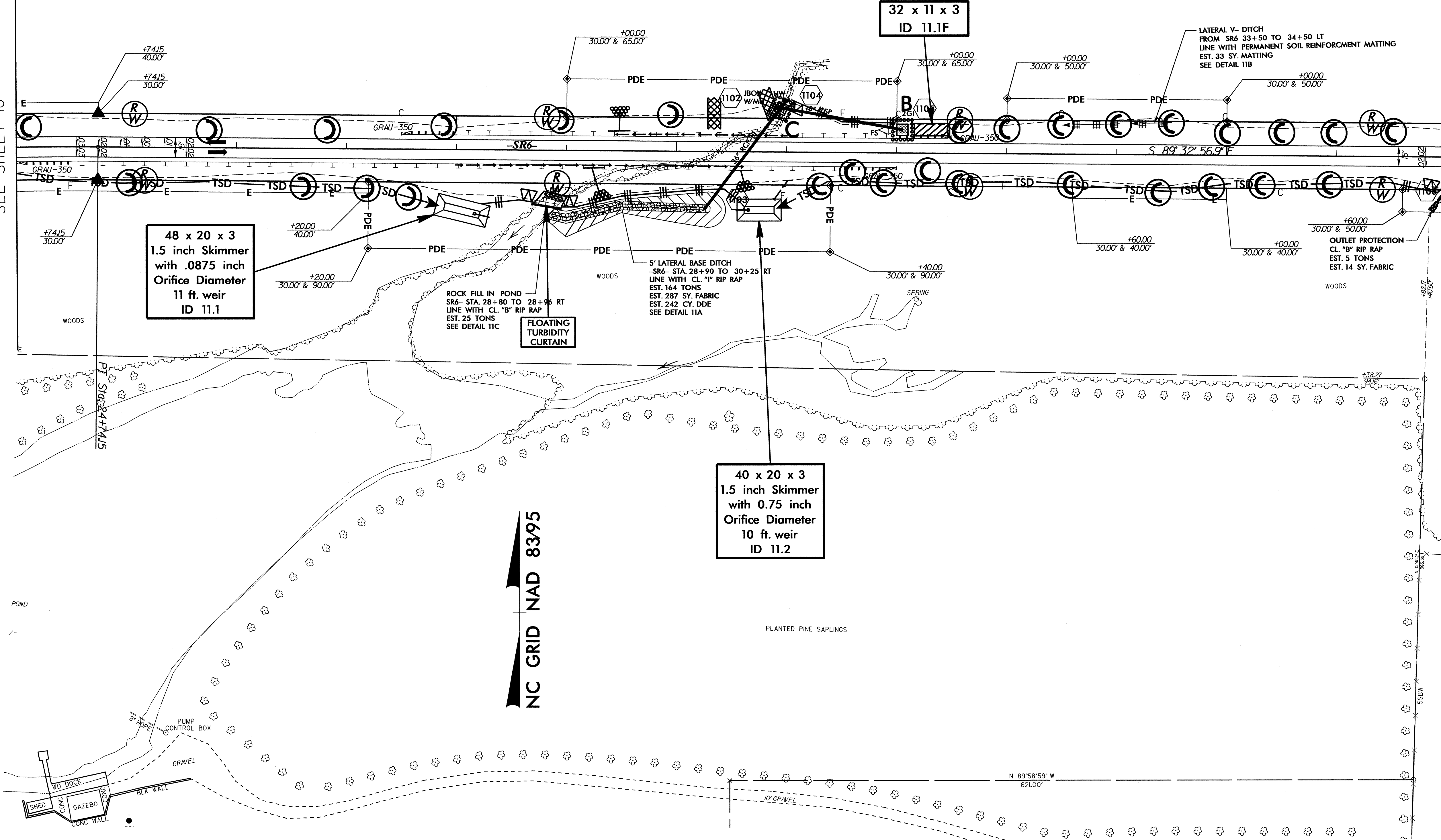
12

JOHN JACKSON HUNT  
 DB 17-E PG 170-172



MATCH LINE STA. 24+00.00 -SR6-  
 SEE SHEET 10

MATCH LINE STA. 37+00.00 -SR6-  
 SEE SHEET 12

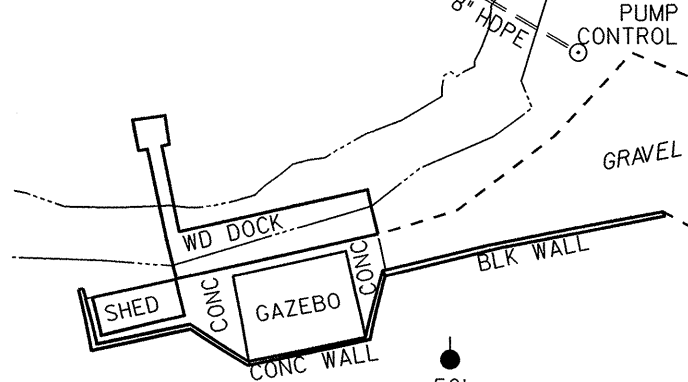


REVISIONS

NC GRID NAD 83/95

PLANTED PINE SAPPLINGS

N 89°58'59" W  
 621.00'

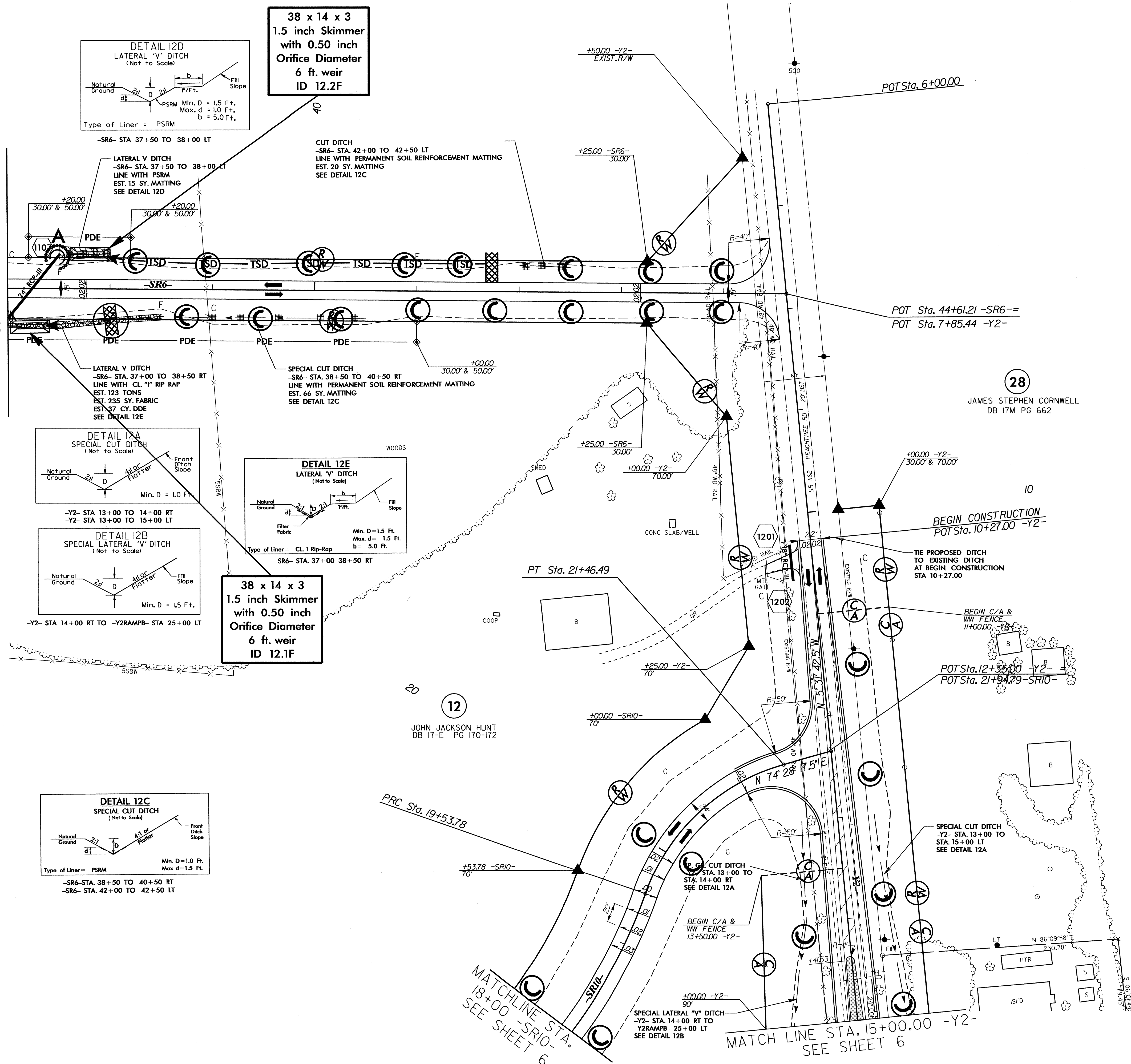




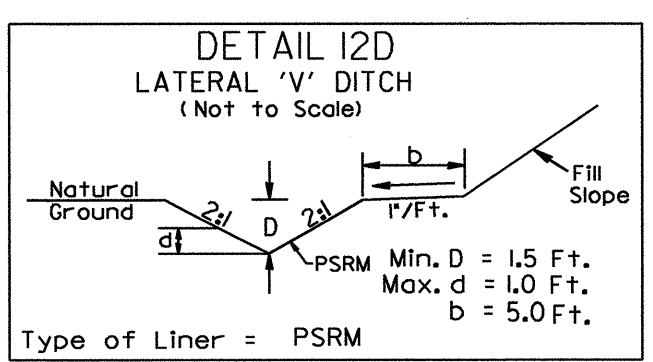
PROJECT REFERENCE NO.	SHEET NO.
R-2707AA	EC-28/CONST J2
RW SHEET NO. 18	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NC GRID NAD 8395

MATCH LINE STA. 37+00.00 -SR6-  
SEE SHEET 11



**38 x 14 x 3**  
1.5 inch Skimmer  
with 0.50 inch  
Orifice Diameter  
6 ft. weir  
ID 12.2F



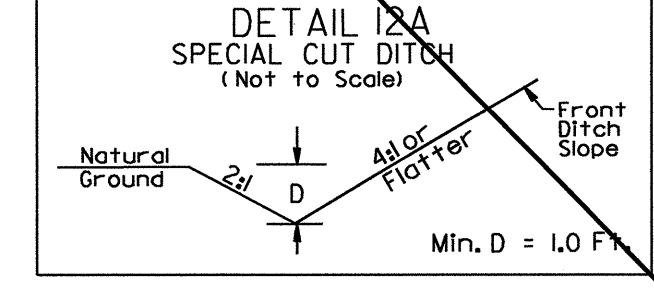
-SR6- STA 37+50 TO 38+00 LT  
LATERAL V DITCH  
-SR6- STA. 37+50 TO 38+00 LT  
LINE WITH PSRM  
EST. 15 SY. MATTING  
SEE DETAIL 12D

CUT DITCH  
-SR6- STA. 42+00 TO 42+50 LT  
LINE WITH PERMANENT SOIL REINFORCEMENT MATTING  
EST. 20 SY. MATTING  
SEE DETAIL 12C

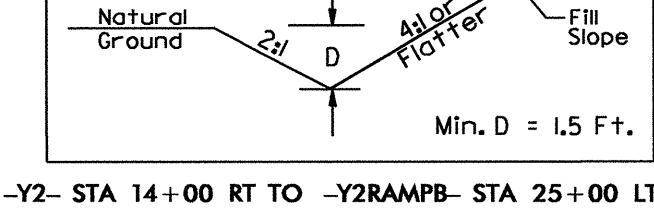
+20.00  
30.00' & 50.00'  
PDE  
LSD  
TSD  
SR6

LATERAL V DITCH  
-SR6- STA. 37+00 TO 38+50 RT  
LINE WITH CL. 1" RIP RAP  
EST. 235 SY. FABRIC  
EST. 37 CY. DDE  
SEE DETAIL 12E

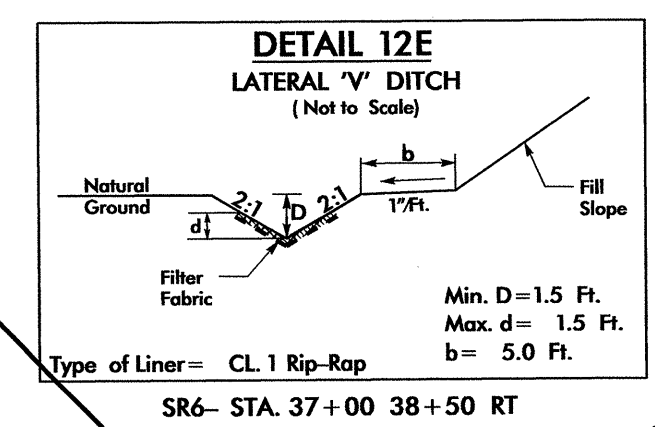
SPECIAL CUT DITCH  
-SR6- STA. 38+50 TO 40+50 RT  
LINE WITH PERMANENT SOIL REINFORCEMENT MATTING  
EST. 66 SY. MATTING  
SEE DETAIL 12C



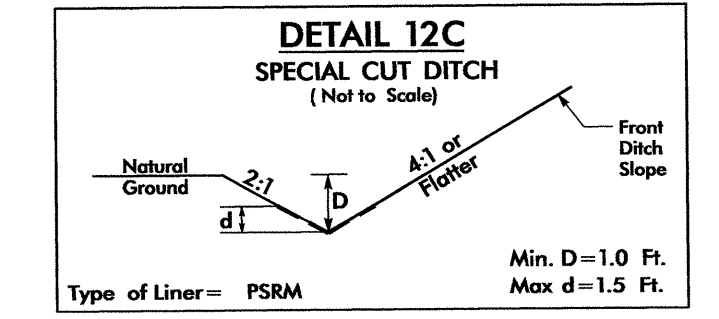
-Y2- STA 13+00 TO 14+00 RT  
-Y2- STA 13+00 TO 15+00 LT



-Y2- STA 14+00 RT TO -Y2RAMPB- STA 25+00 LT



**38 x 14 x 3**  
1.5 inch Skimmer  
with 0.50 inch  
Orifice Diameter  
6 ft. weir  
ID 12.1F



-SR6- STA. 38+50 TO 40+50 RT  
-SR6- STA. 42+00 TO 42+50 LT

MATCHLINE STA. 18+00 -SR10-  
SEE SHEET 6

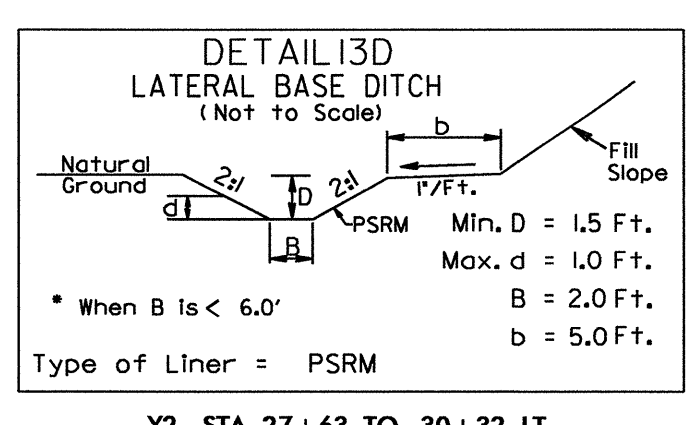
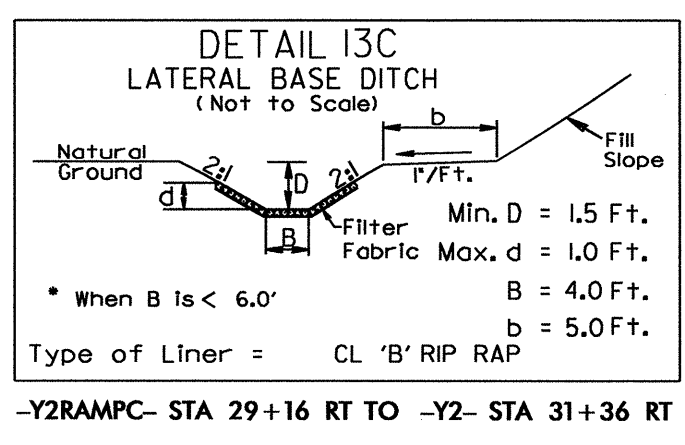
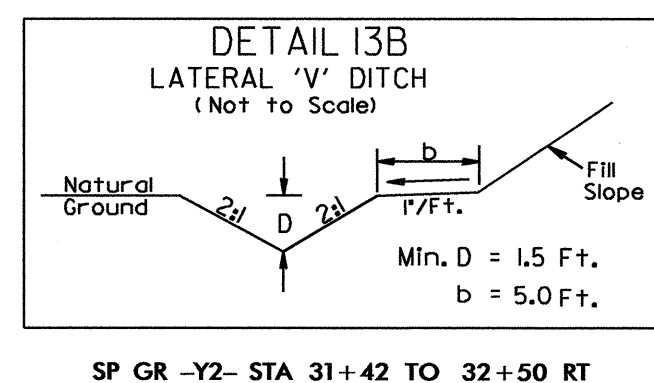
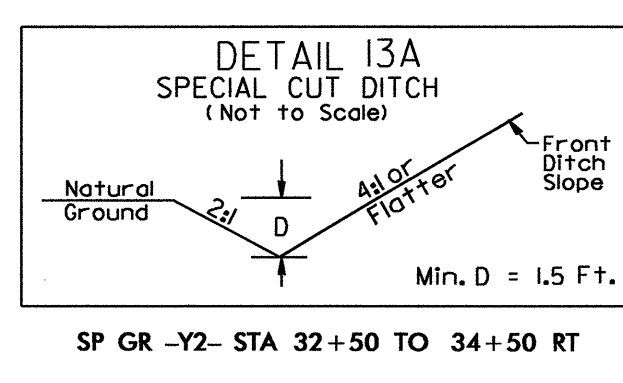
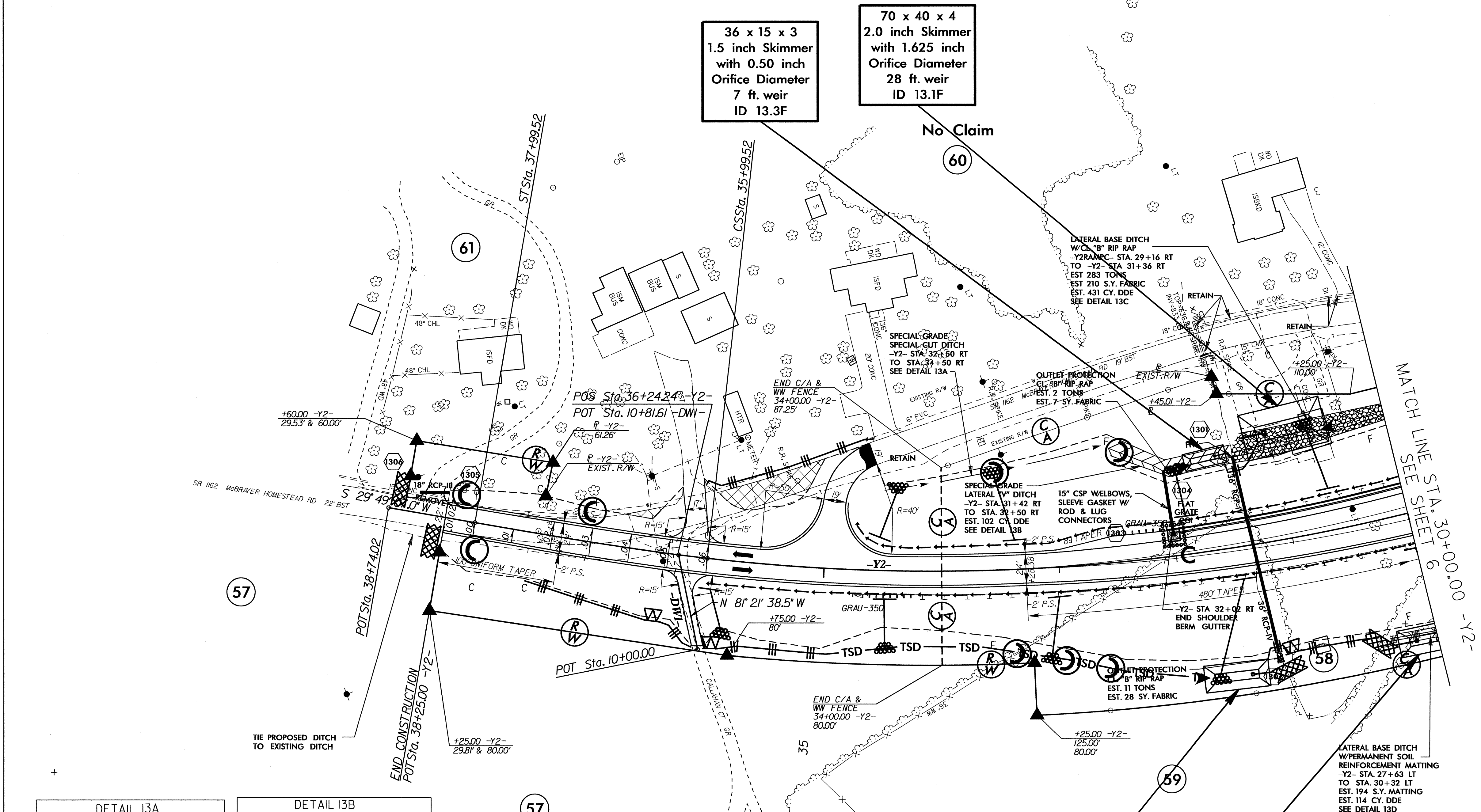
MATCH LINE STA. 15+00.00 -Y2-  
SEE SHEET 6

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
R-2707AA	EC-29/CONST.13
RW SHEET NO. 19	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NC GRID NAD 8395

REVISIONS



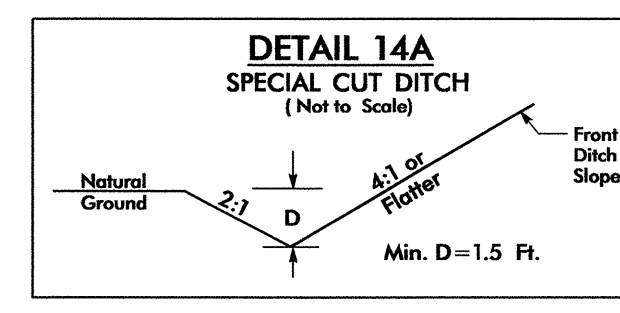
30



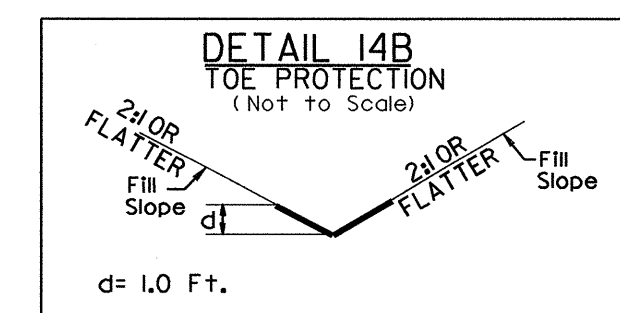
PROJECT REFERENCE NO. R-2707AA	SHEET NO. EC-30/CONST.4
RW SHEET NO. 20	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

 PAVEMENT REMOVAL

NC GRID NAD 8395

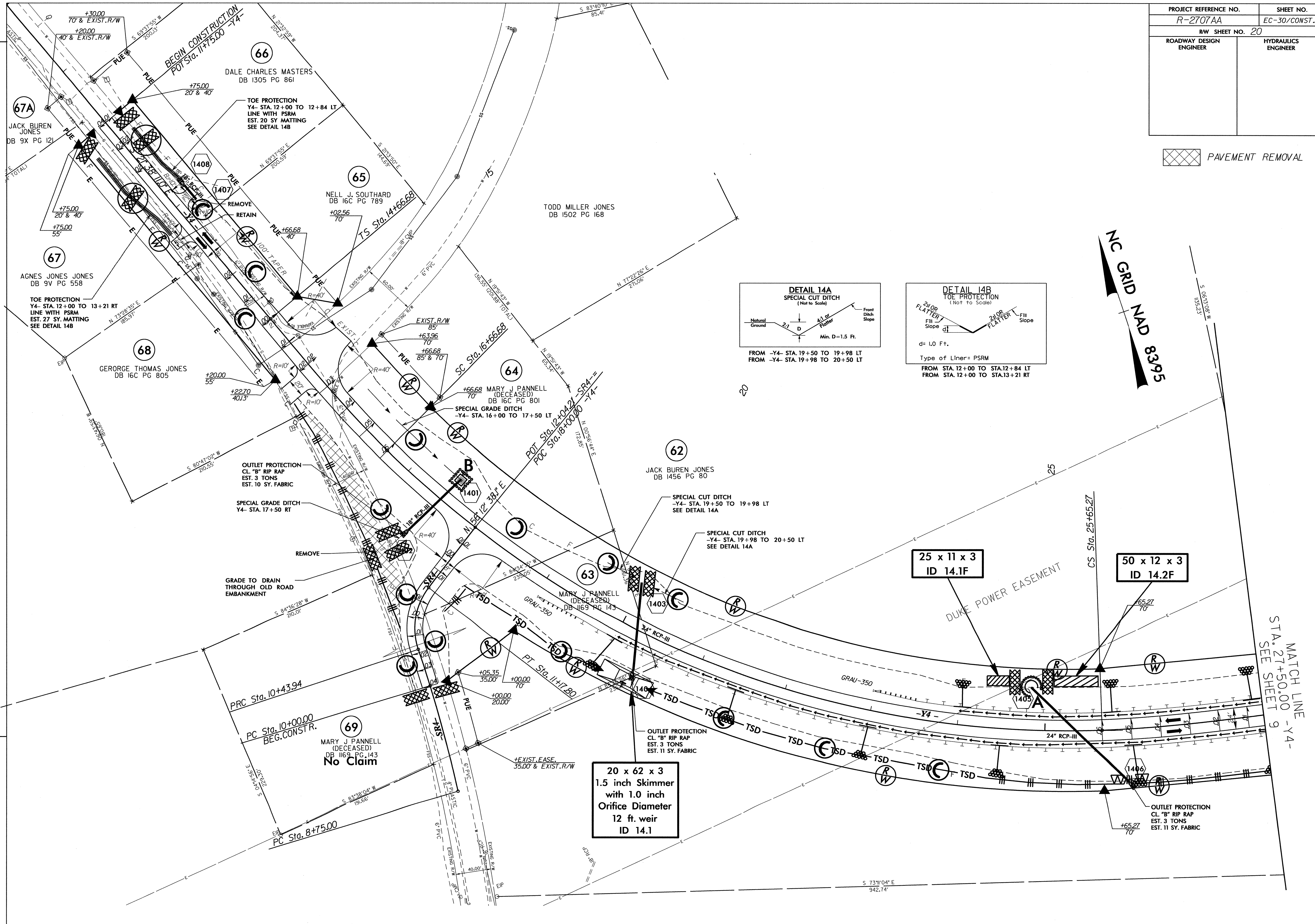


FROM -Y4- STA. 19+50 TO 19+98 LT  
FROM -Y4- STA. 19+98 TO 20+50 LT



FROM STA. 12+00 TO STA. 12+84 LT  
FROM STA. 12+00 TO STA. 13+21 RT

REVISIONS



MATCH LINE -Y4- STA. 27+50.00  
SEE SHEET 9

20 x 62 x 3  
1.5 inch Skimmer  
with 1.0 inch  
Orifice Diameter  
12 ft. weir  
ID 14.1

25 x 11 x 3  
ID 14.1F

50 x 12 x 3  
ID 14.2F

DUKE POWER EASEMENT

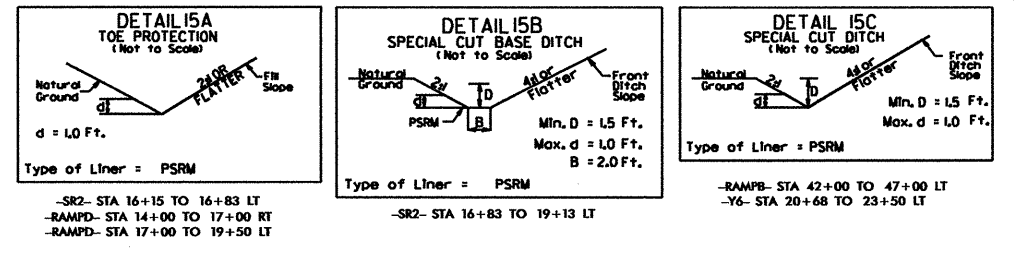
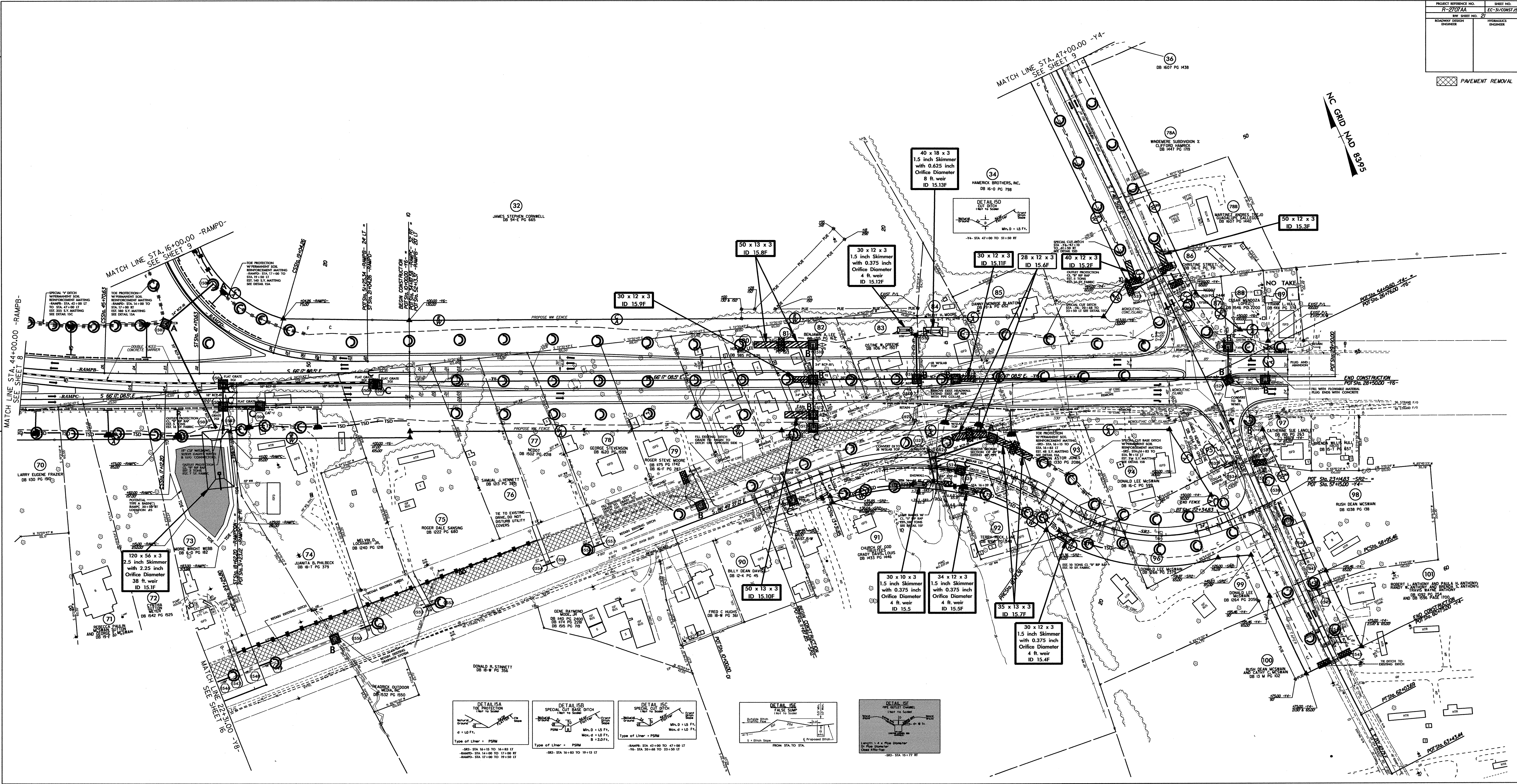
CS Sta. 25+65.27

S 73°11'04\"/>



PAVEMENT REMOVAL

NC GRID NAD 83-95



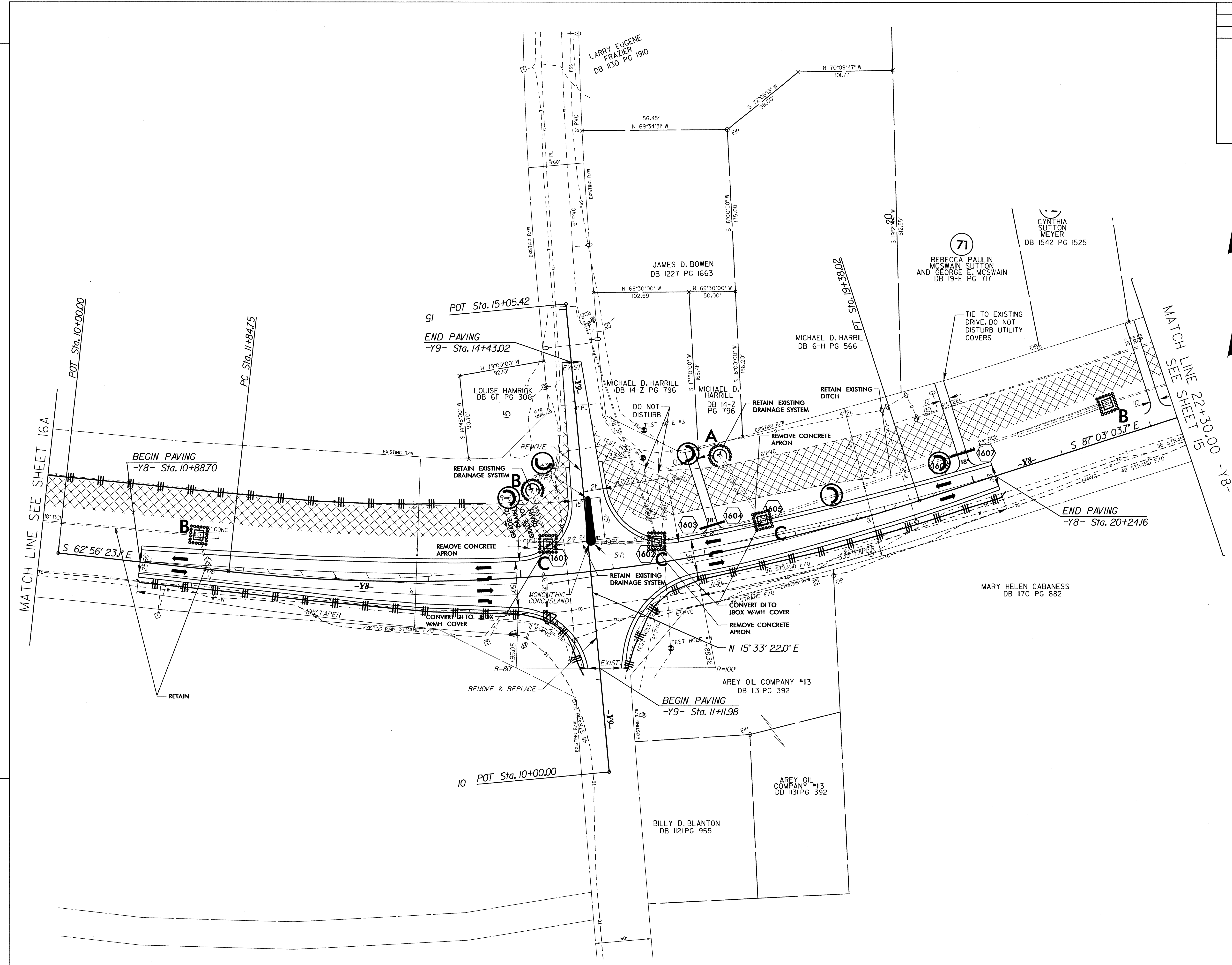
DATE: 05/11/11  
DRAWN: J. H. HARRIS  
CHECKED: J. H. HARRIS



PROJECT REFERENCE NO. R-2707AA	SHEET NO. EC-32/CONST.16
R/W SHEET NO. 21A	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NC GRID NAD 83/95

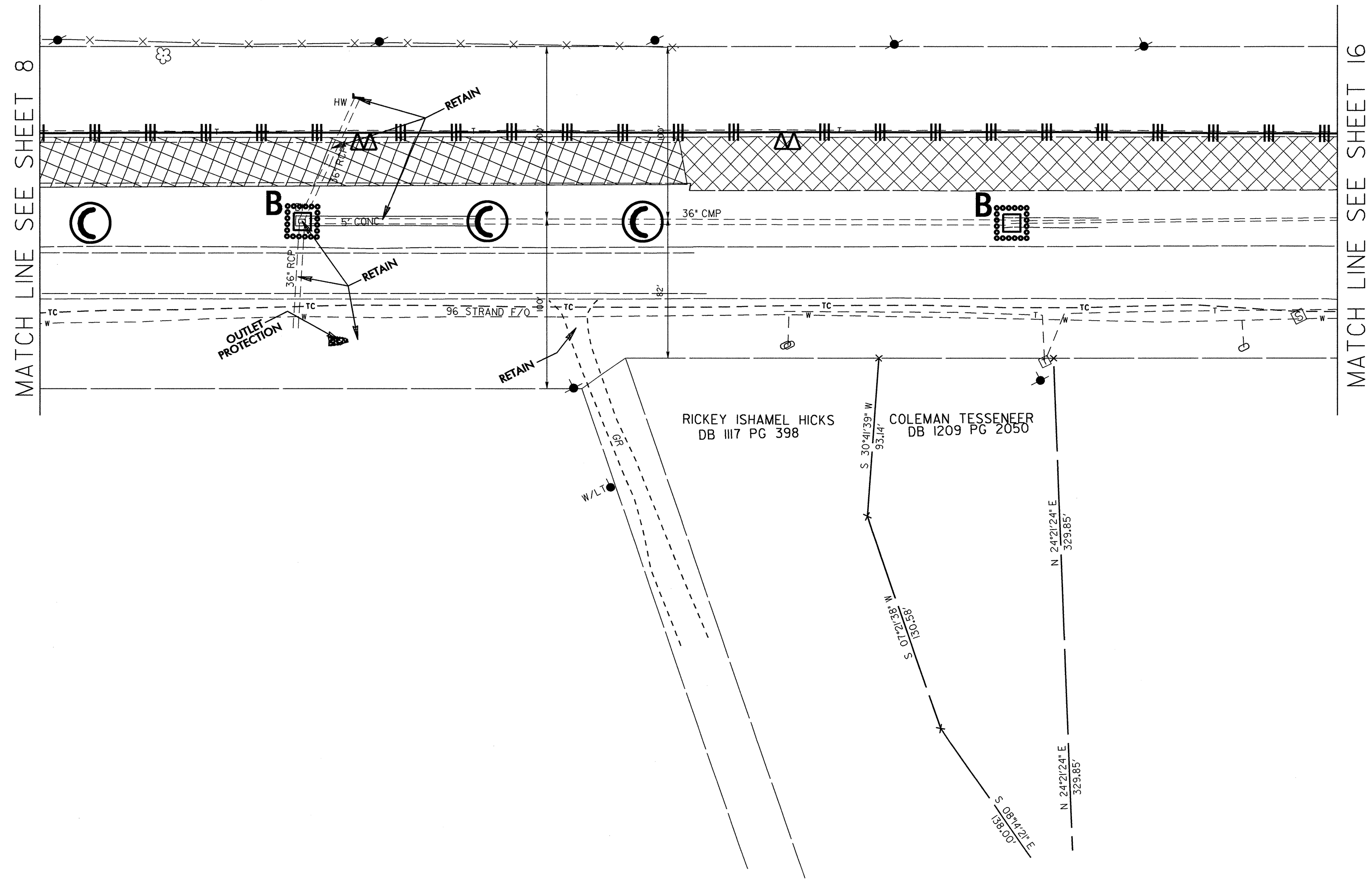
REVISIONS



PAVEMENT REMOVAL

PROJECT REFERENCE NO.	SHEET NO.
R-2707AA	EC-33/CONST.16A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS



NC GRID NAD 83/95

PAVEMENT REMOVAL