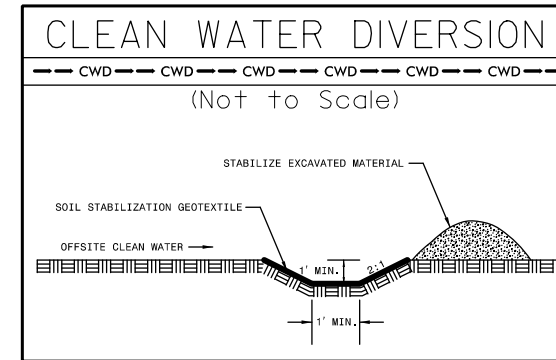


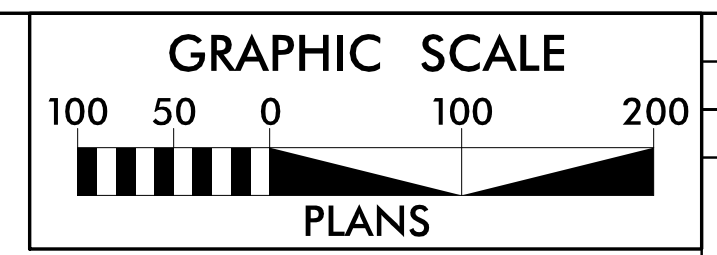
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**The documents contained herein were originally issued  
and sealed by the individuals whose names and license  
numbers appear on each page, on the dates appearing  
with their signature on that page.**

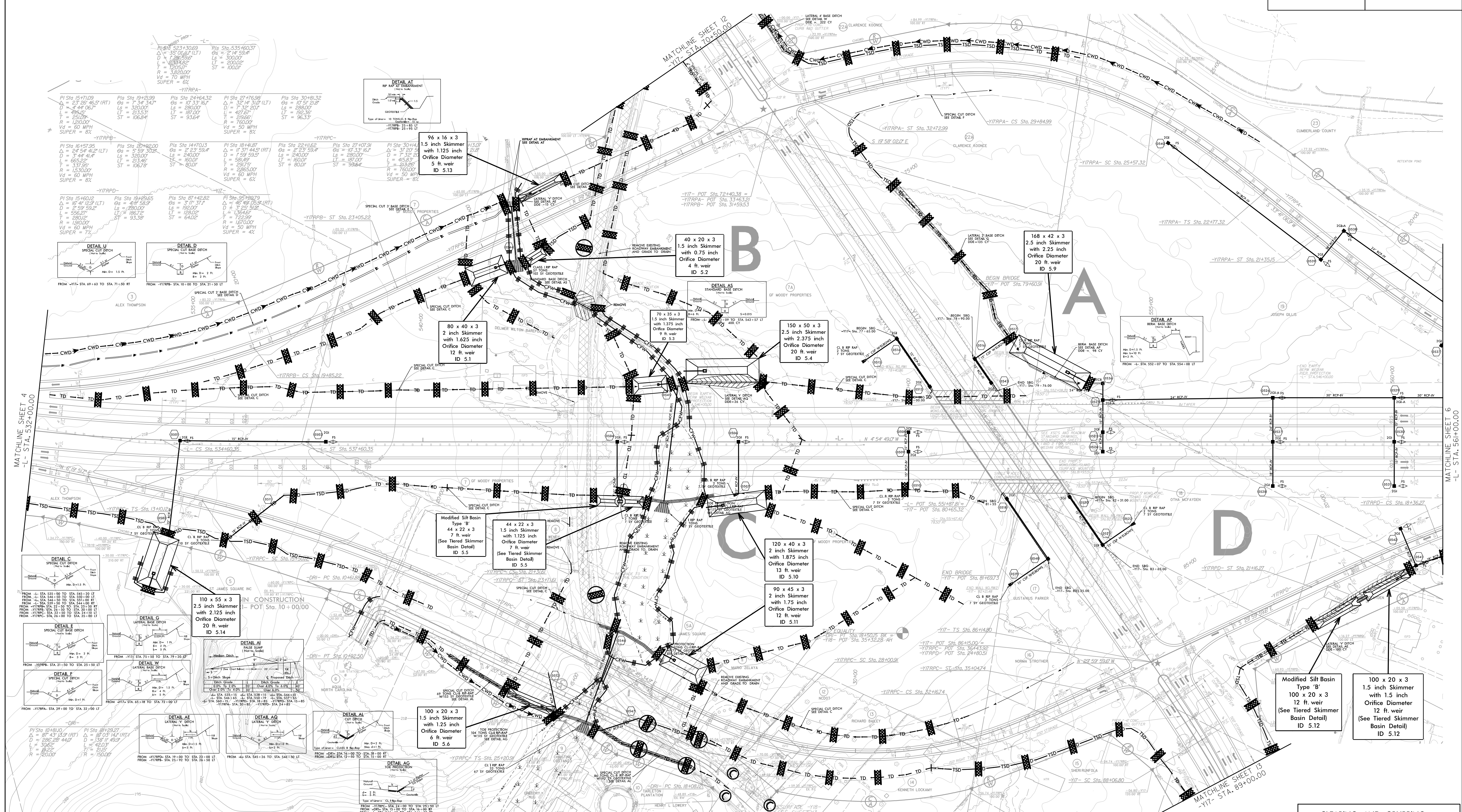
**This file or an individual page  
shall not be considered a certified document.**



NAD 83/95



PROJECT REFERENCE NO. <i>U-2519BB</i>	SHEET NO. <i>EC-05/CONST.5</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



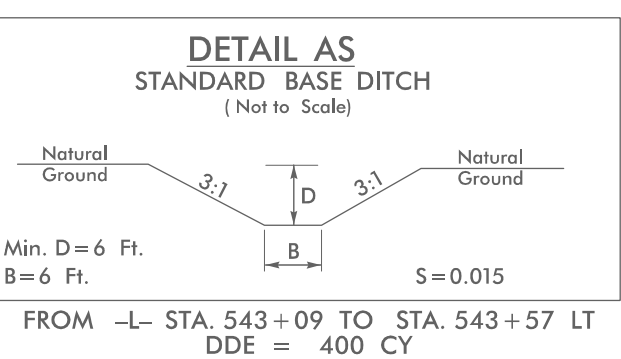
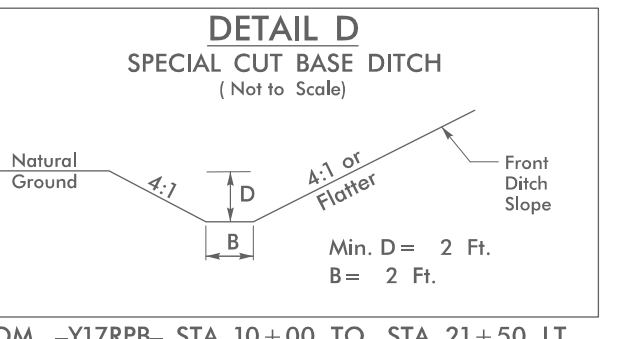
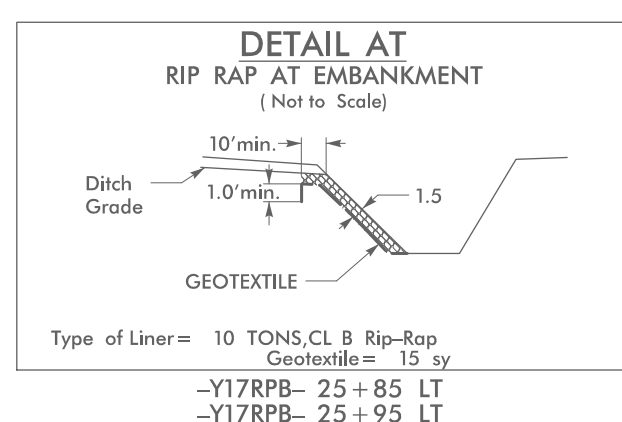
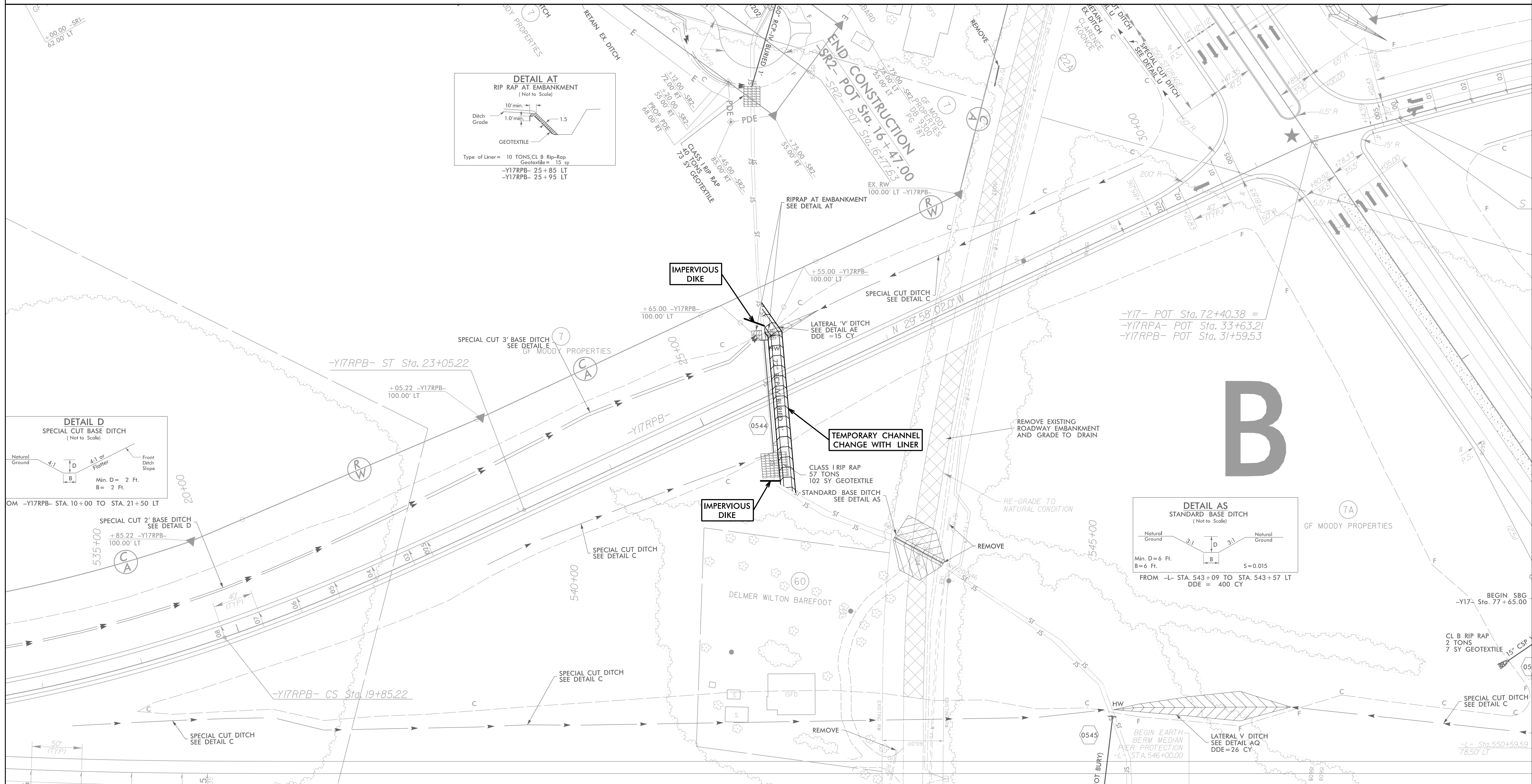
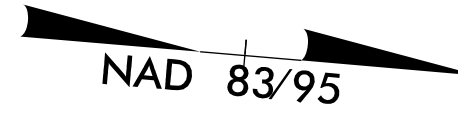
**NOTE:**  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

**CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5**

PROJECT REFERENCE NO.	SHEET NO.
U-2519BB	EC-06/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# PIPE CONSTRUCTION SEQUENCE STA. 25+70 -Y17RPB-

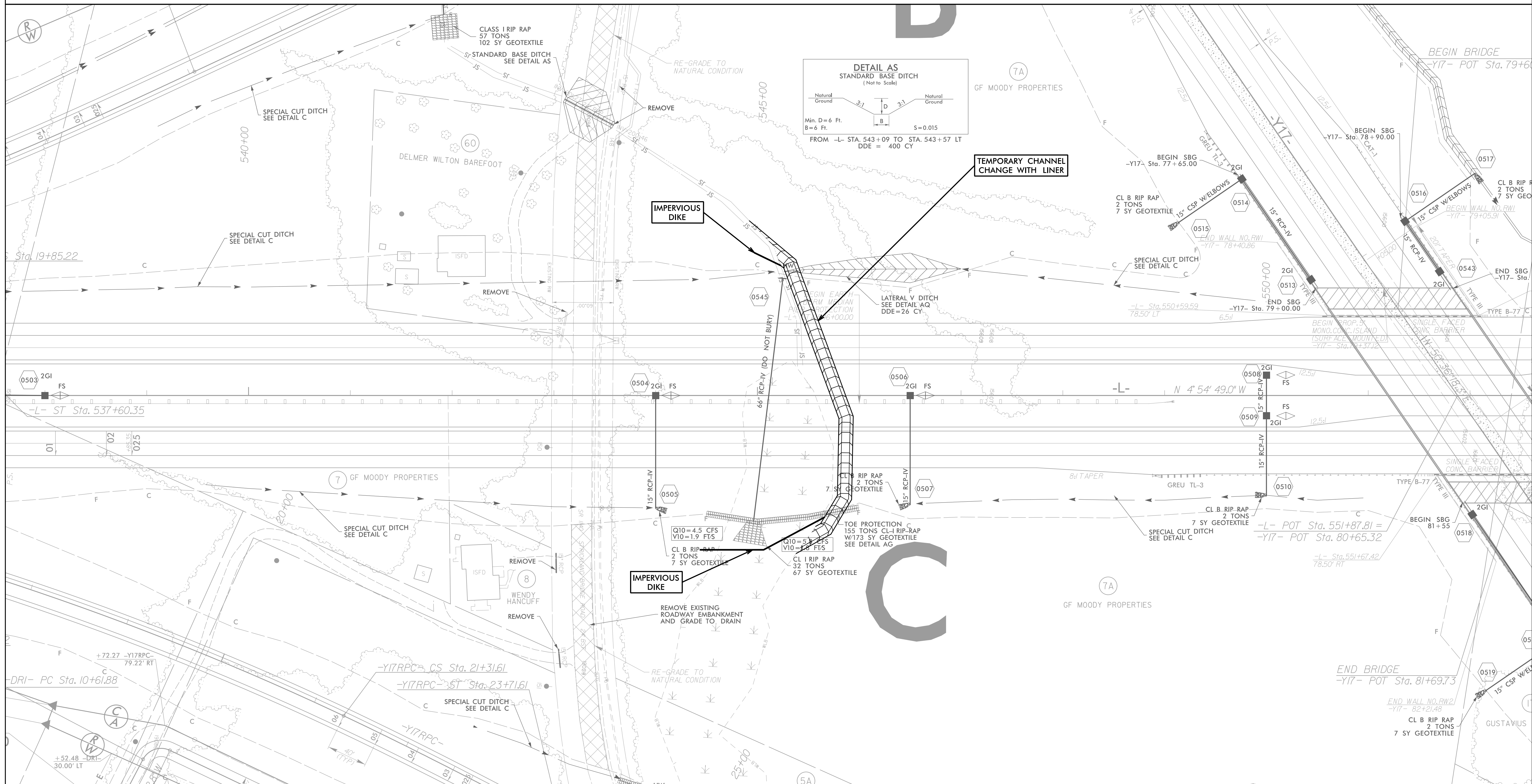
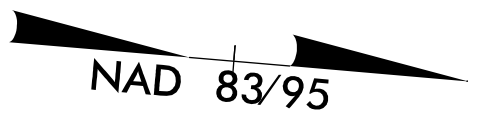
1. UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED THROUGHOUT PIPE CONSTRUCTION.
2. INSTALL IMPERVIOUS DIKES AND TEMPORARY CHANNEL CHANGE WITH LINER (8 FT. BASE, 2. FT DEEP, 1.5:1 SIDE SLOPES), DIVERTING FLOW.
3. CONSTRUCT PROPOSED 72" RCP-IV PIPE AND ANY NECESSARY INLET/OUTLET CHANNEL IMPROVEMENTS.
4. REMOVE IMPERVIOUS DIKES AND TEMPORARY CHANNEL CHANGE WITH LINER, ALLOWING FLOW THROUGH PROPOSED PIPE.
5. REMOVE ANY REMAINING SPECIAL STILLING BASIN(S) AND COMPLETE ROADWAY.



PROJECT REFERENCE NO.	SHEET NO.
U-2519BB	EC-07/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

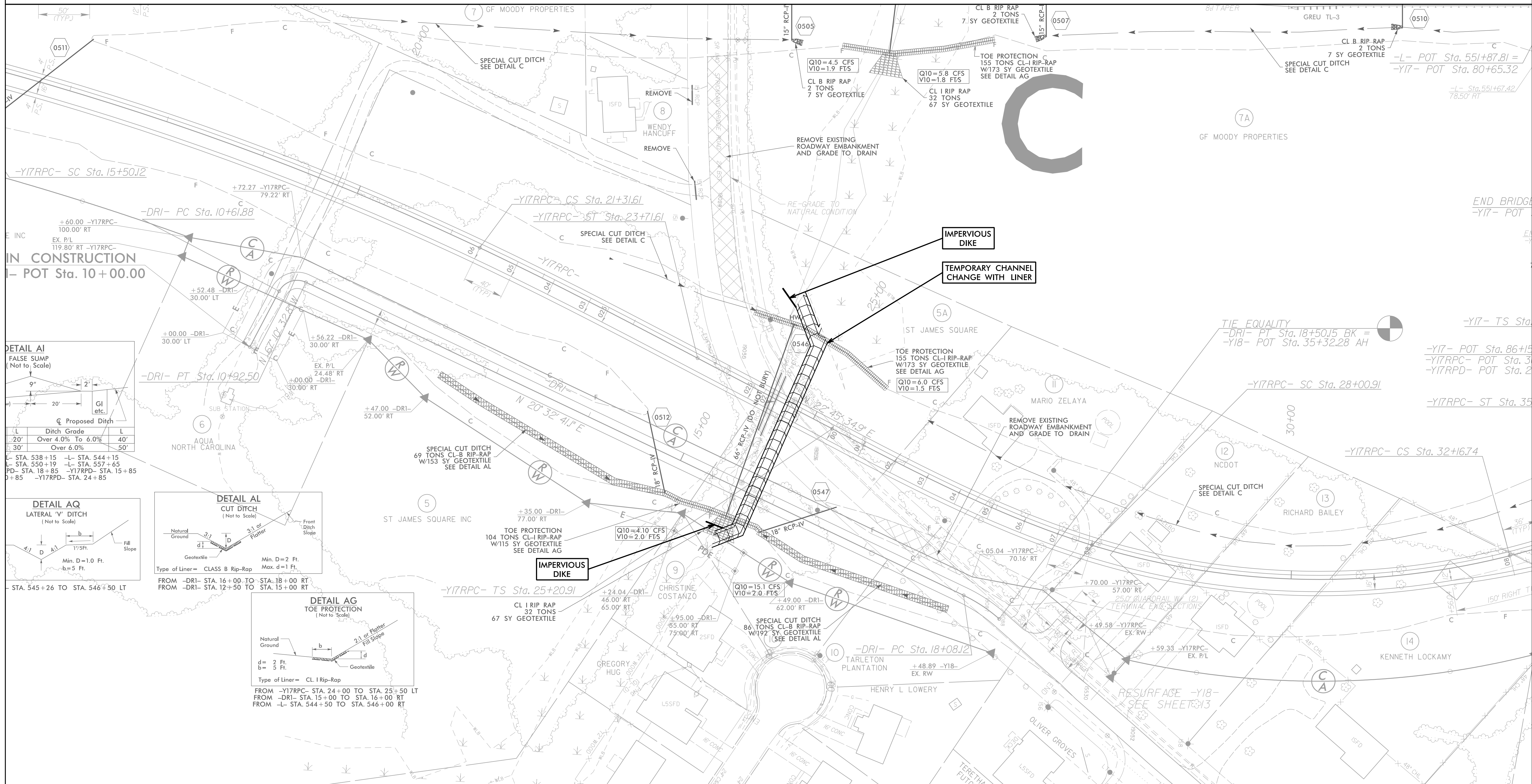
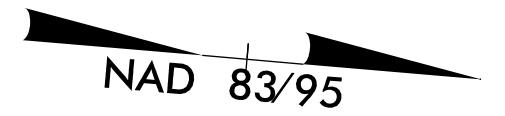
# PIPE CONSTRUCTION SEQUENCE STA. 545+11 -L-

1. UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED THROUGHOUT PIPE CONSTRUCTION.
2. INSTALL IMPERVIOUS DIKES AND TEMPORARY CHANNEL CHANGE WITH LINER (8 FT. BASE, 2. FT DEEP, 1.5:1 SIDE SLOPES), DIVERTING FLOW.
3. CONSTRUCT PROPOSED 66" RCP-IV PIPE AND ANY NECESSARY INLET/OUTLET CHANNEL IMPROVEMENTS.
4. REMOVE IMPERVIOUS DIKES AND TEMPORARY CHANNEL CHANGE WITH LINER, ALLOWING FLOW THROUGH PROPOSED PIPE.
5. REMOVE ANY REMAINING SPECIAL STILLING BASIN(S) AND COMPLETE ROADWAY.



# PIPE CONSTRUCTION SEQUENCE STA. 24+51 -Y17RPC-

1. UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED THROUGHOUT PIPE CONSTRUCTION.
2. INSTALL IMPERVIOUS DIKES AND TEMPORARY CHANNEL CHANGE WITH LINER (8 FT. BASE, 2. FT DEEP, 1.5:1 SIDE SLOPES), DIVERTING FLOW.
3. CONSTRUCT PROPOSED 66" RCP-IV PIPE AND ANY NECESSARY INLET/OUTLET CHANNEL IMPROVEMENTS.
4. REMOVE IMPERVIOUS DIKES AND TEMPORARY CHANNEL CHANGE WITH LINER, ALLOWING FLOW THROUGH PROPOSED PIPE.
5. REMOVE ANY REMAINING SPECIAL STILLING BASIN(S) AND COMPLETE ROADWAY.

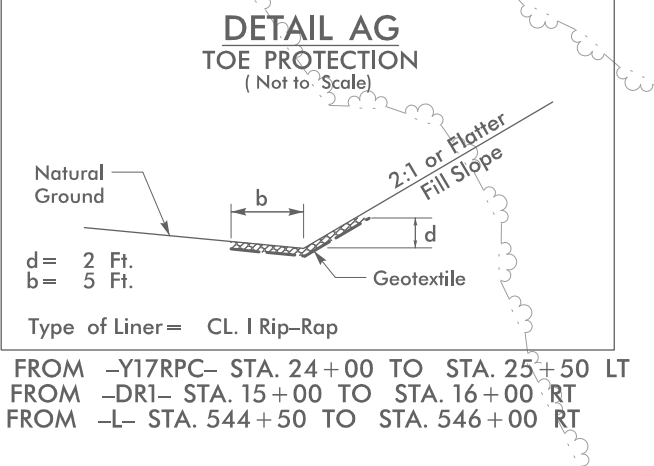
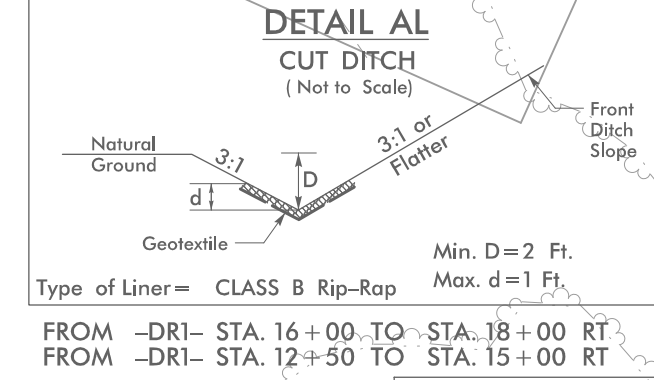
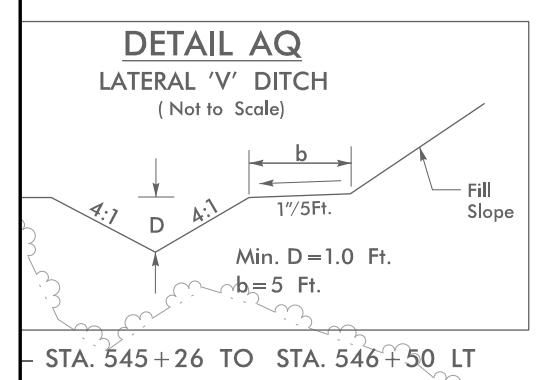


**IN CONSTRUCTION**  
- POT Sta. 10+00.00

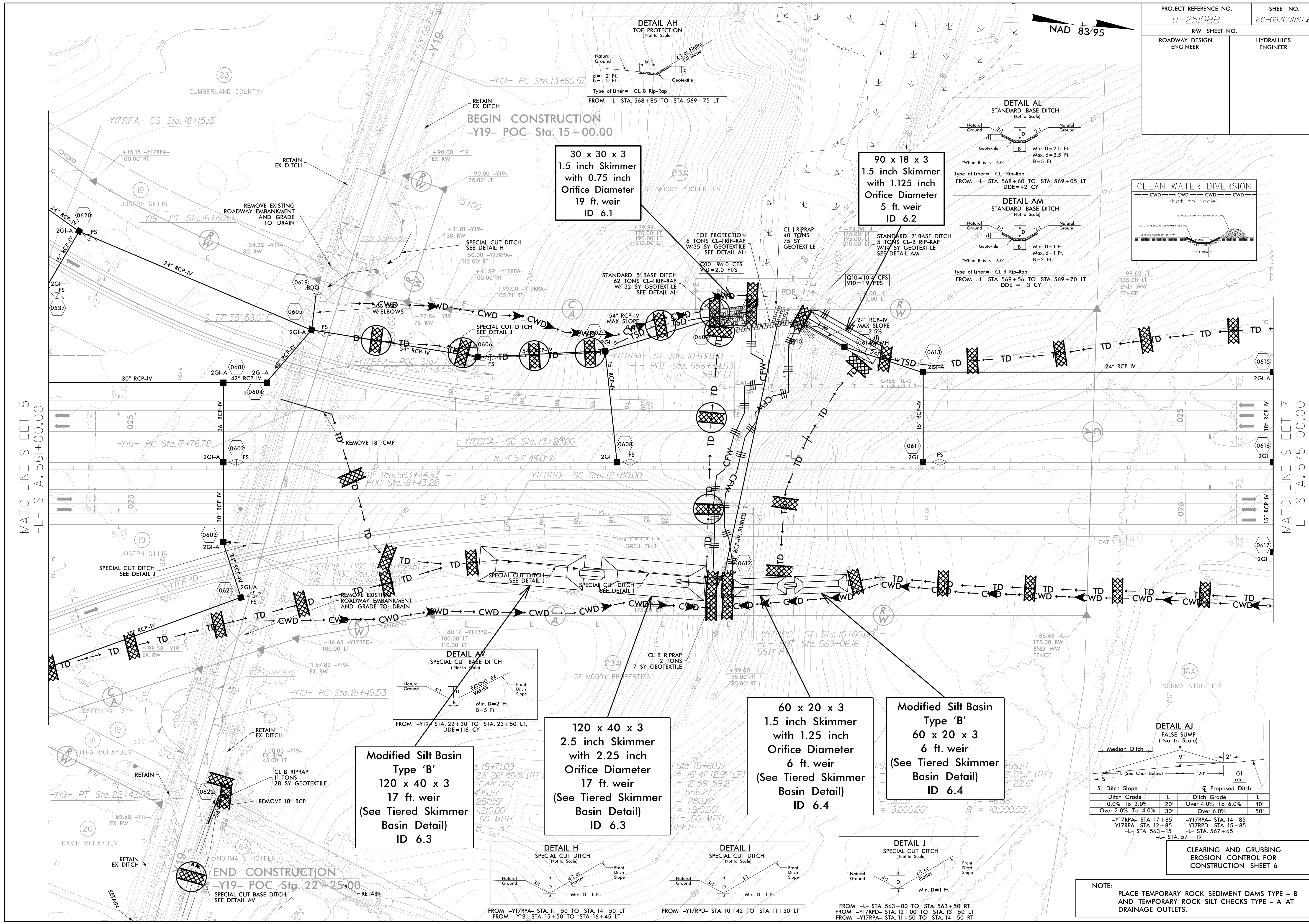
**DETAIL AI**  
FALSE SUMP  
(Not to Scale)

L	Ditch Grade	L
20'	Over 4.0% To 6.0%	40'
30'	Over 6.0%	50'

- STA. 538+15 - STA. 544+15  
 - STA. 550+19 - STA. 557+65  
 PD- STA. 18+85 -Y17RPD- STA. 15+85  
 PD+85 -Y17RPD- STA. 24+85

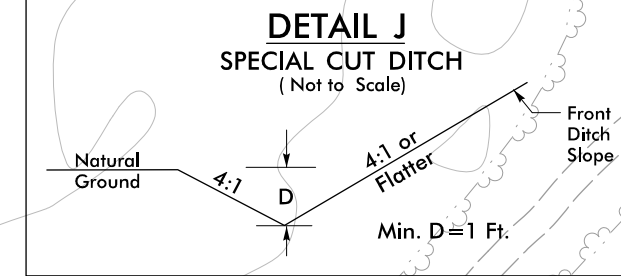
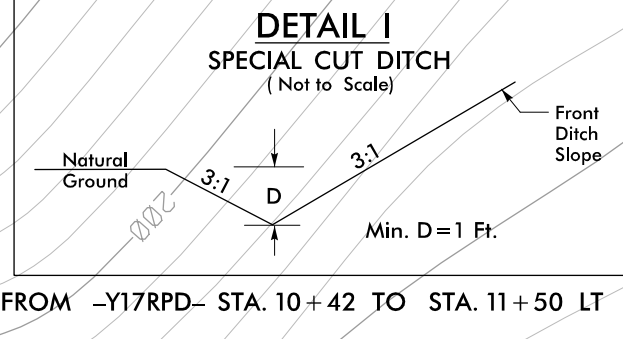
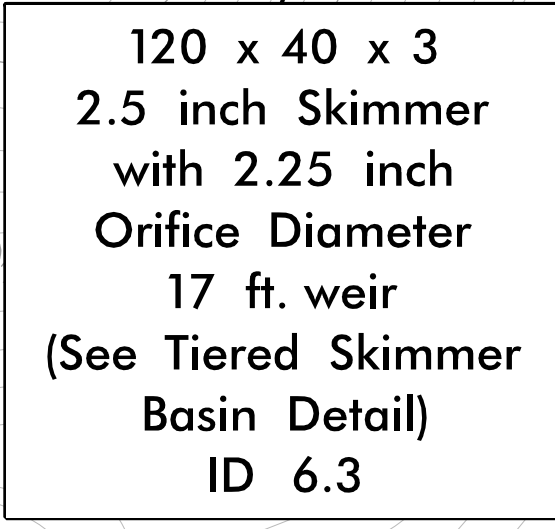
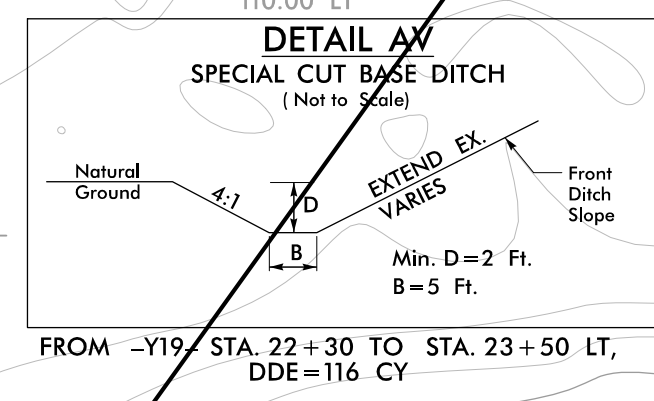
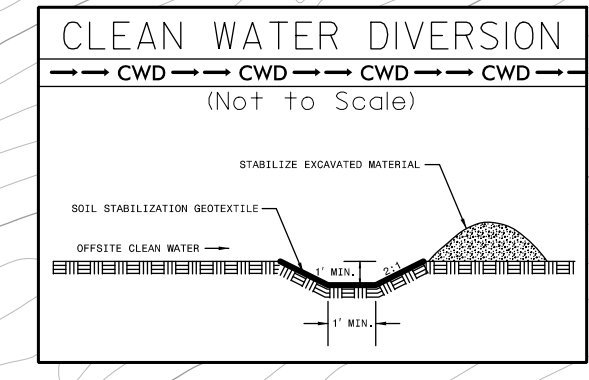
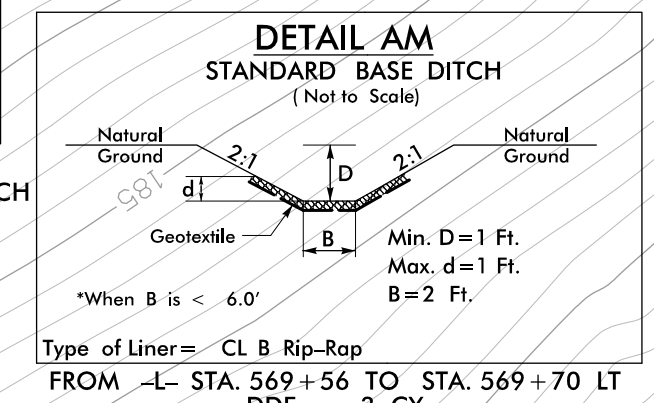
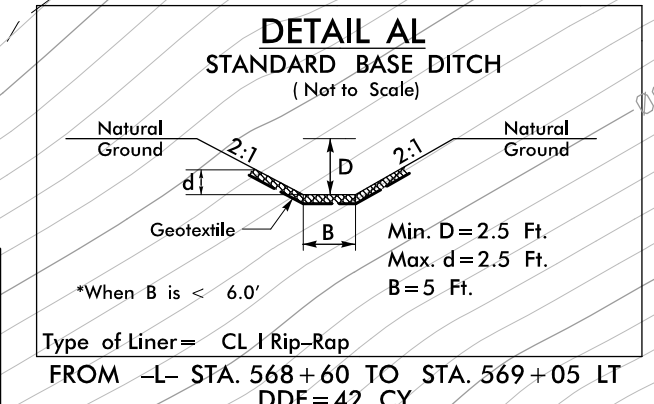
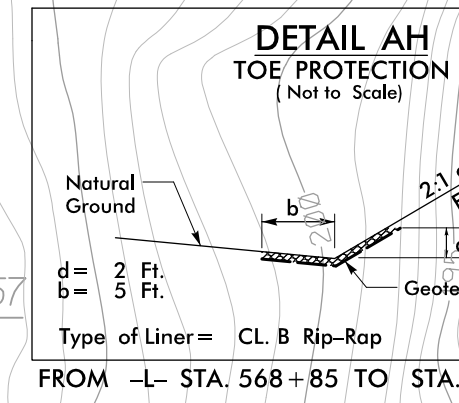


NAD 83/95



MATCHLINE SHEET 5  
-L- STA. 56+00.00

MATCHLINE SHEET 7  
-L- STA. 575+00.00



**DETAIL AJ FALSE SUMP (Not to Scale)**

S = Ditch Slope, L = Length, C = Proposed Ditch

Ditch Grade	L	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'

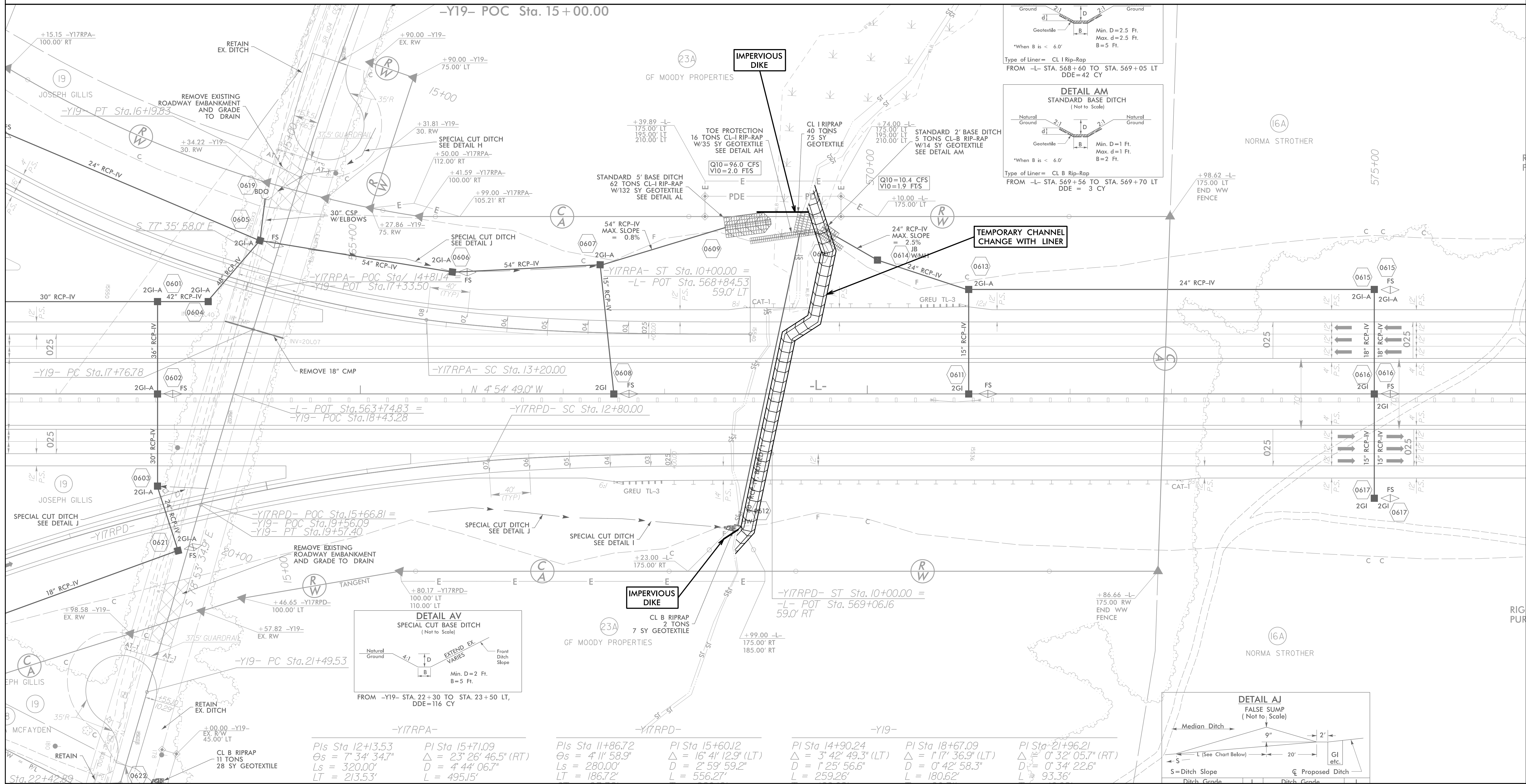
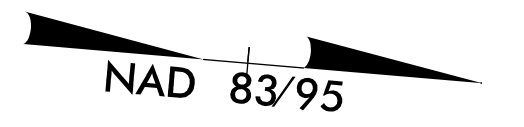
-Y17RPA- STA. 17+85  
 -Y17RPA- STA. 12+85  
 -L- STA. 563+15  
 -L- STA. 571+19

**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

# PIPE CONSTRUCTION SEQUENCE STA. 569+00 -L-

1. UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED THROUGHOUT PIPE CONSTRUCTION.
2. INSTALL IMPERVIOUS DIKES AND TEMPORARY CHANNEL CHANGE WITH LINER (8 FT. BASE, 2. FT DEEP, 1.5:1 SIDE SLOPES), DIVERTING FLOW.
3. CONSTRUCT PROPOSED 60" RCP-IV PIPE AND ANY NECESSARY INLET/OUTLET CHANNEL IMPROVEMENTS.
4. REMOVE IMPERVIOUS DIKES AND TEMPORARY CHANNEL CHANGE WITH LINER, ALLOWING FLOW THROUGH PROPOSED PIPE.
5. REMOVE ANY REMAINING SPECIAL STILLING BASIN(S) AND COMPLETE ROADWAY.



PROJECT REFERENCE NO.	SHEET NO.
U-2519BB	EC-II/CONST.07
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

ALL EROSION CONTROLS MEASURES FROM  
-L- STA. 585+00 TO -L- STA. 604+39 WERE  
DESIGNED BY OTHERS AS PART OF U-2519CA.

NAD 83/95

80 x 40 x 3  
2.0 inch Skimmer  
with 1.875 inch  
Orifice Diameter  
24 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 5.1B

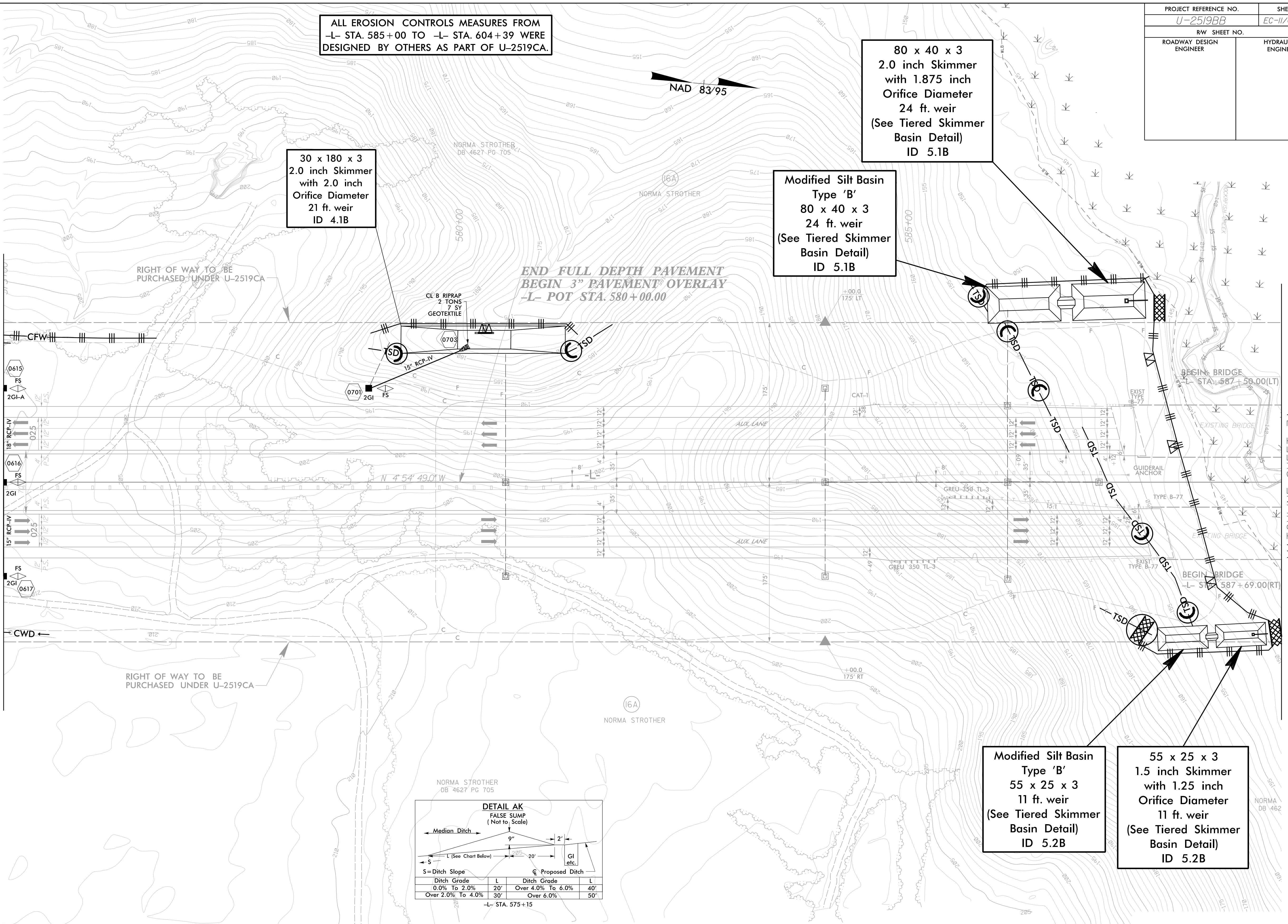
30 x 180 x 3  
2.0 inch Skimmer  
with 2.0 inch  
Orifice Diameter  
21 ft. weir  
ID 4.1B

Modified Silt Basin  
Type 'B'  
80 x 40 x 3  
24 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 5.1B

END FULL DEPTH PAVEMENT  
BEGIN 3" PAVEMENT OVERLAY  
-L- POT STA. 580+00.00

MATCHLINE SHEET 6  
-L- STA. 575+00.00

MATCHLINE SHEET 7A  
-L- STA. 589+00.00



NORMA STROTHER  
DB 4627 PG 705

**DETAIL AK  
FALSE SUMP  
(Not to Scale)**

Median Ditch

L (See Chart Below)

S = Ditch Slope

Q Proposed Ditch

Ditch Grade	L	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'

-L- STA. 575+15

Modified Silt Basin  
Type 'B'  
55 x 25 x 3  
11 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 5.2B

55 x 25 x 3  
1.5 inch Skimmer  
with 1.25 inch  
Orifice Diameter  
11 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 5.2B

NOTE:  
CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 07

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

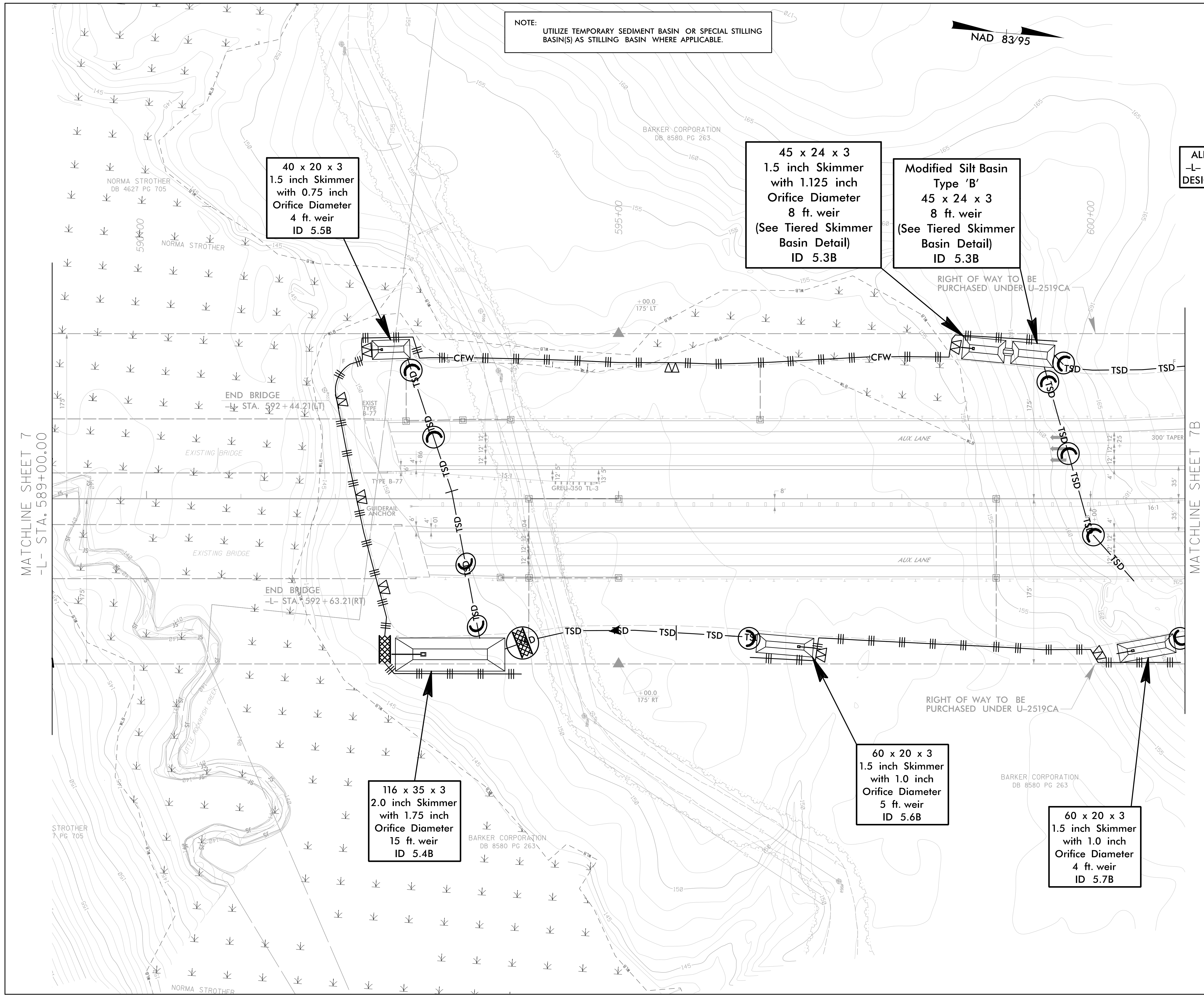


PROJECT REFERENCE NO.	SHEET NO.
U-2519BB	EC-HIA/CONST.07A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE: UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

NAD 83/95

ALL EROSION CONTROLS MEASURES FROM -L- STA. 585+00 TO -L- STA. 604+39 WERE DESIGNED BY OTHERS AS PART OF U-2519CA.



MATCHLINE SHEET 7  
-L- STA. 589+00.00

MATCHLINE SHEET 7B  
-L- STA. 601+00.00

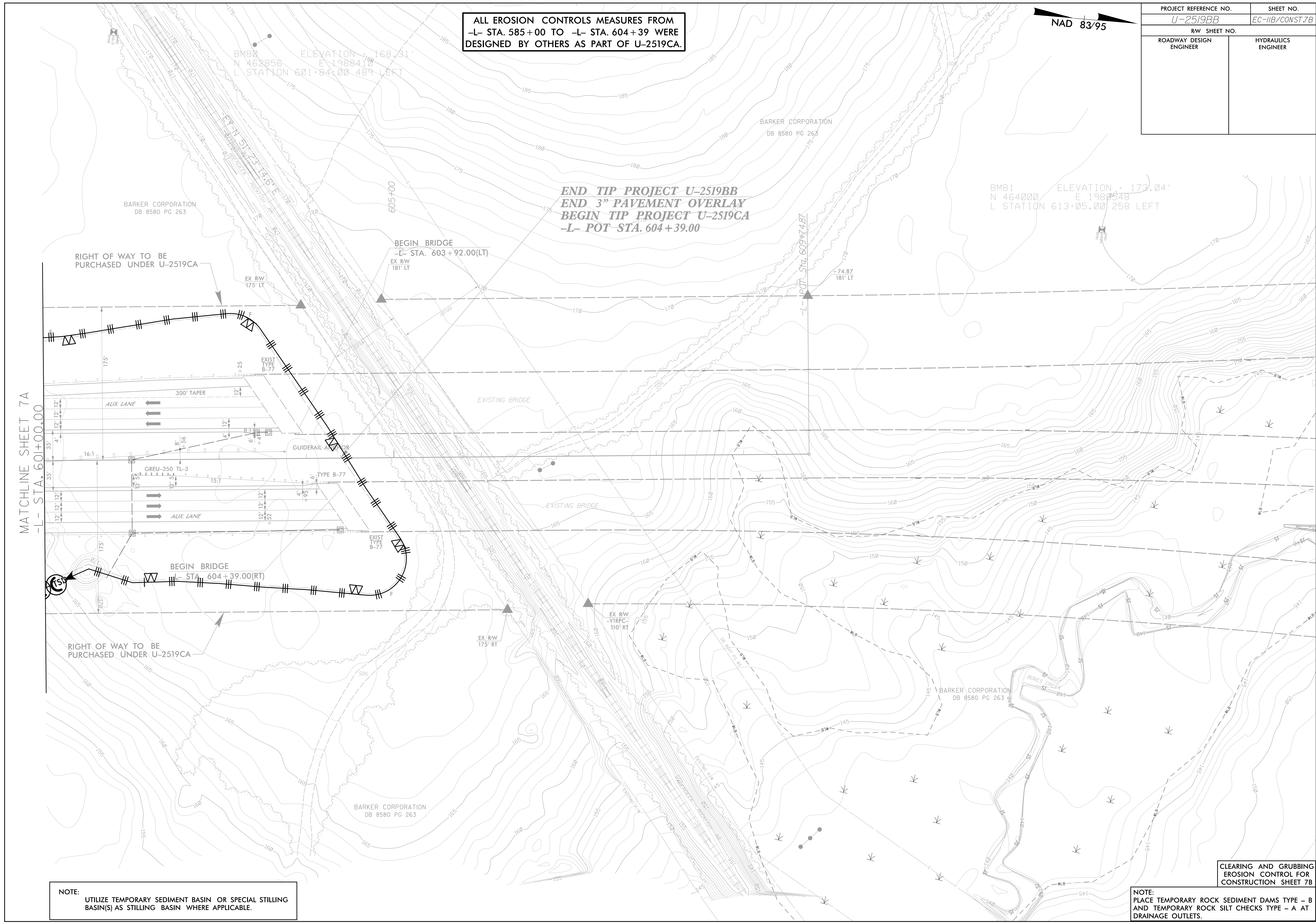
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 07A

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

PROJECT REFERENCE NO.	SHEET NO.
U-2519BB	EC-11B/CONST.7B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

ALL EROSION CONTROLS MEASURES FROM  
-L- STA. 585+00 TO -L- STA. 604+39 WERE  
DESIGNED BY OTHERS AS PART OF U-2519CA.

NAD 83/95



MATCHLINE SHEET 7A  
-L- STA. 601+00.00

**END TIP PROJECT U-2519BB**  
**END 3" PAVEMENT OVERLAY**  
**BEGIN TIP PROJECT U-2519CA**  
**-L- POT STA. 604+39.00**

BM80 ELEVATION = 168.31'  
N 462856 E 198841  
L STATION 601+84.00 489 LEFT

BM81 ELEVATION = 173.04'  
N 464000 E 1988548  
L STATION 613+05.00 258 LEFT

BEGIN BRIDGE  
-L- STA. 604+39.00(RT)

BEGIN BRIDGE  
-L- STA. 603+92.00(LT)

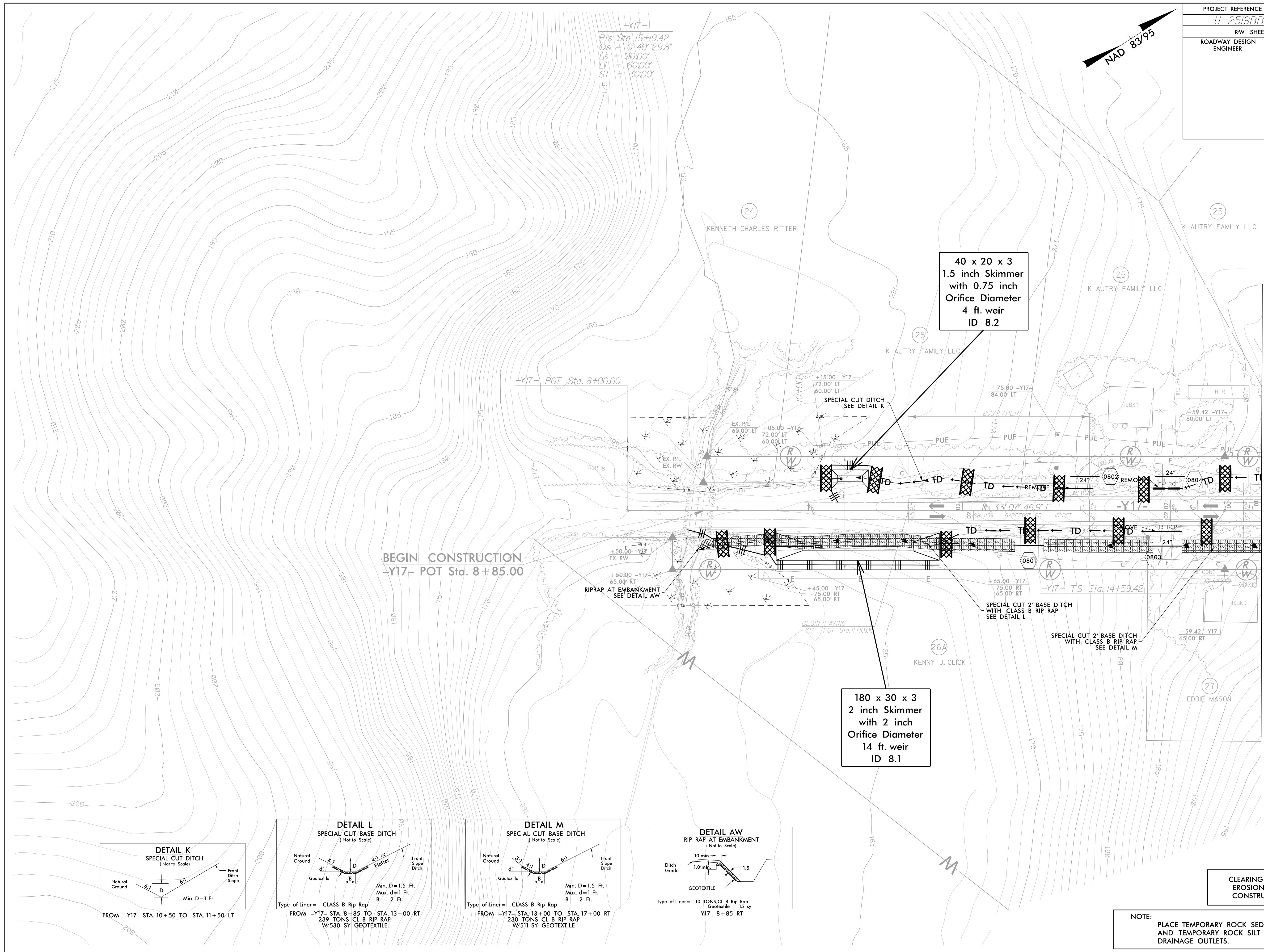
RIGHT OF WAY TO BE PURCHASED UNDER U-2519CA

NOTE:  
UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 7B

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

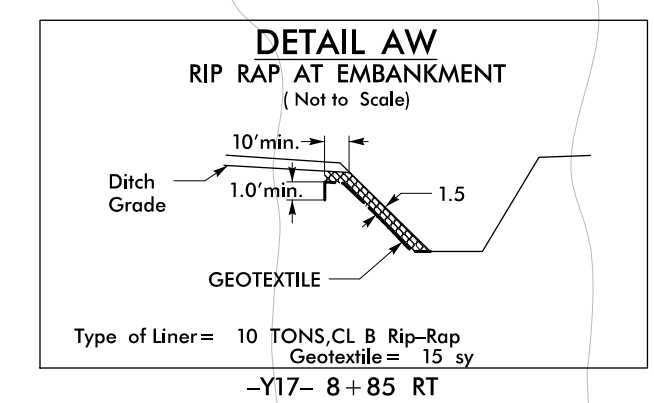
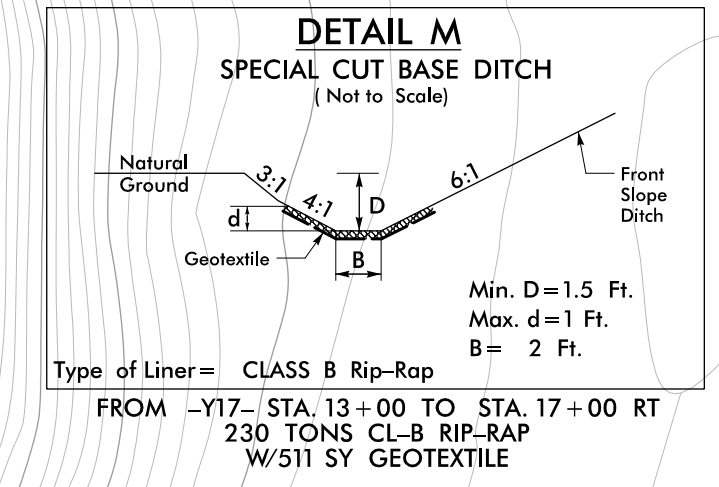
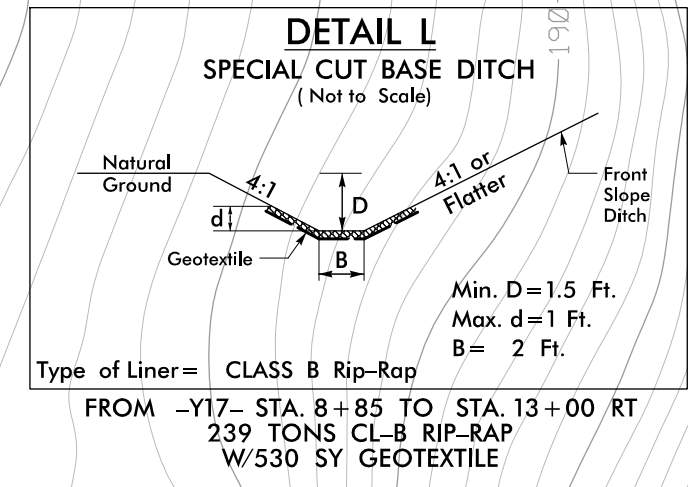
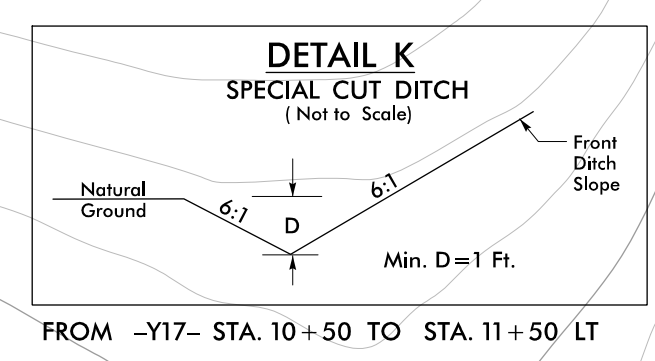
PROJECT REFERENCE NO.	SHEET NO.
U-2519BB	EC-12/CONST.8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



-Y17-  
 Pts Sta 15+19.42  
 Δs = 0° 40' 29.8"  
 Ls = 90.00'  
 LT = 60.00'  
 ST = 30.00'

40 x 20 x 3  
 1.5 inch Skimmer  
 with 0.75 inch  
 Orifice Diameter  
 4 ft. weir  
 ID 8.2

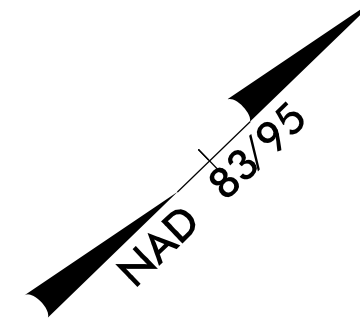
180 x 30 x 3  
 2 inch Skimmer  
 with 2 inch  
 Orifice Diameter  
 14 ft. weir  
 ID 8.1



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

MATCHLINE SHEET 9  
 -Y17- STA. 15+00.00

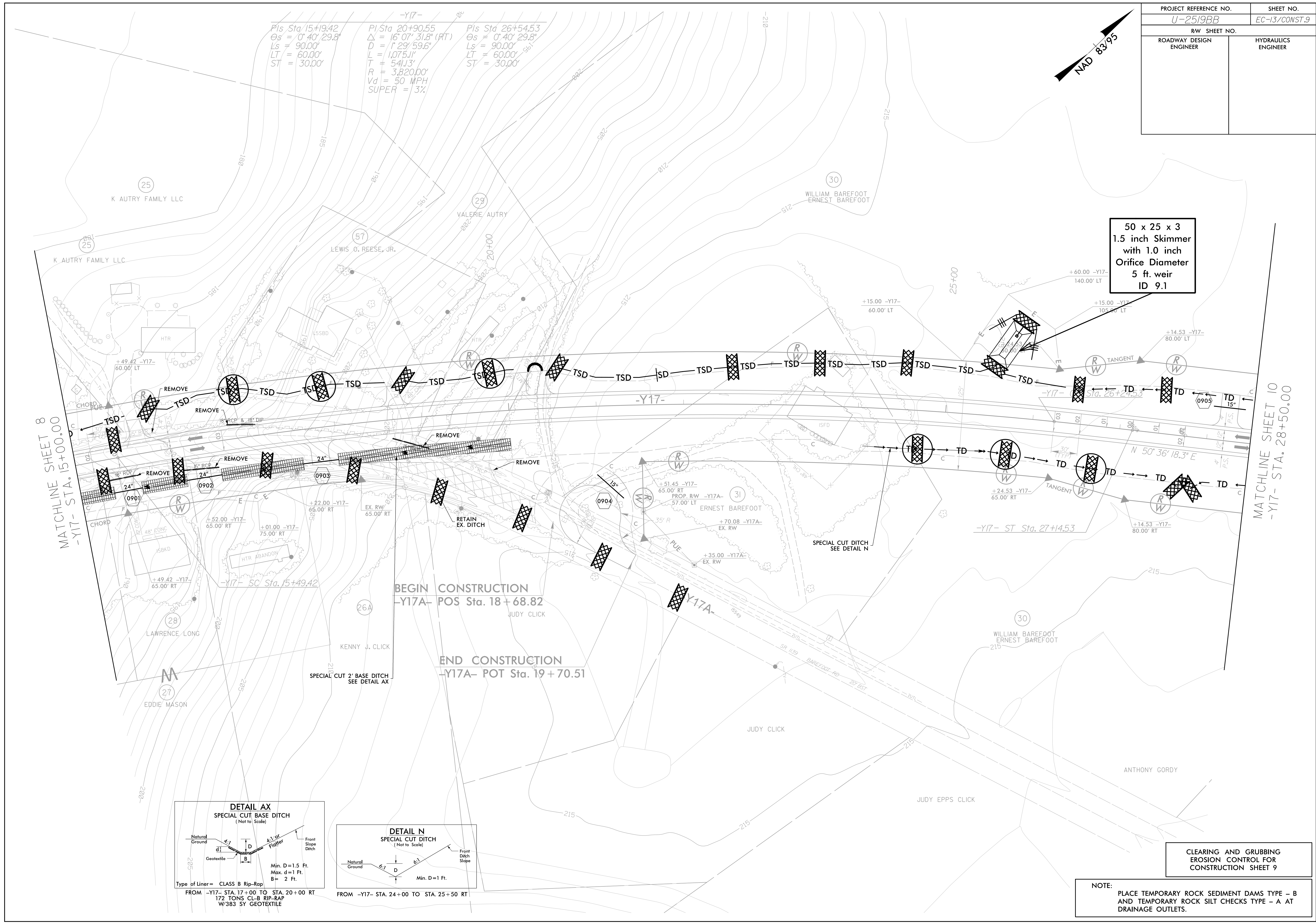
PROJECT REFERENCE NO.	SHEET NO.
U-2519BB	EC-13/CONST.9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



-Y17-  
 PI Sta 15+19.42  
 $\Delta_s = 0^\circ 40' 29.8''$   
 $L_s = 90.00'$   
 $LT = 60.00'$   
 $ST = 30.00'$

PI Sta 20+90.55  
 $\Delta = 16^\circ 07' 31.8''$  (RT)  
 $D = 1^\circ 29' 59.6''$   
 $L = 1,075.11'$   
 $T = 541.3'$   
 $R = 3,820.00'$   
 $V_d = 50$  MPH  
 $SUPER = 3\%$

PI Sta 26+54.53  
 $\Delta_s = 0^\circ 40' 29.8''$   
 $L_s = 90.00'$   
 $LT = 60.00'$   
 $ST = 30.00'$



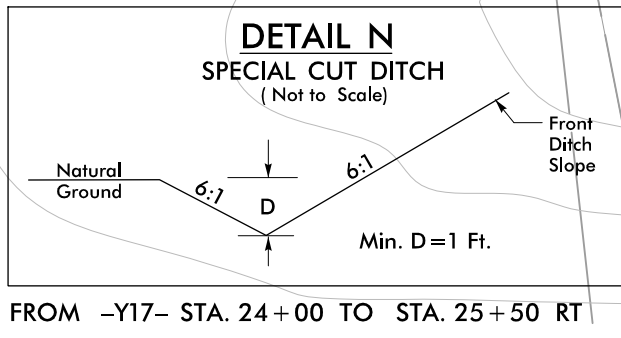
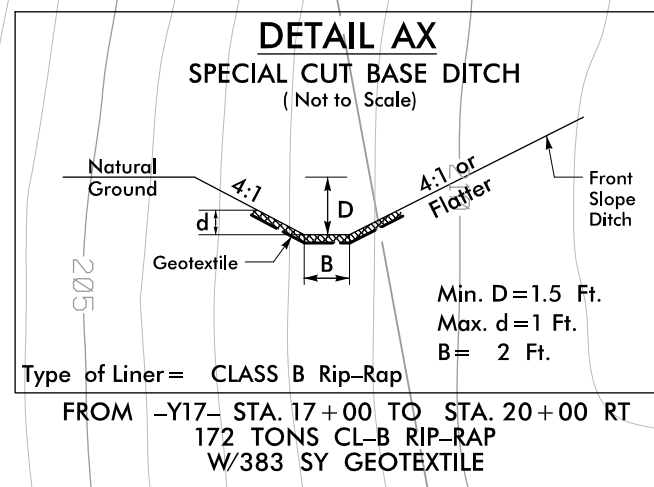
50 x 25 x 3  
 1.5 inch Skimmer  
 with 1.0 inch  
 Orifice Diameter  
 5 ft. weir  
 ID 9.1

MATCHLINE SHEET 8  
 -Y17- STA. 15+00.00

MATCHLINE SHEET 10  
 -Y17- STA. 28+50.00

**BEGIN CONSTRUCTION**  
 -Y17A- POS Sta. 18 + 68.82

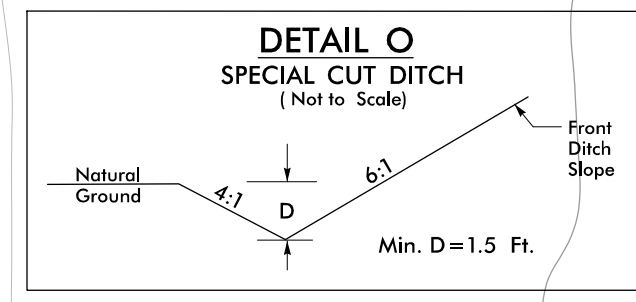
**END CONSTRUCTION**  
 -Y17A- POT Sta. 19 + 70.51



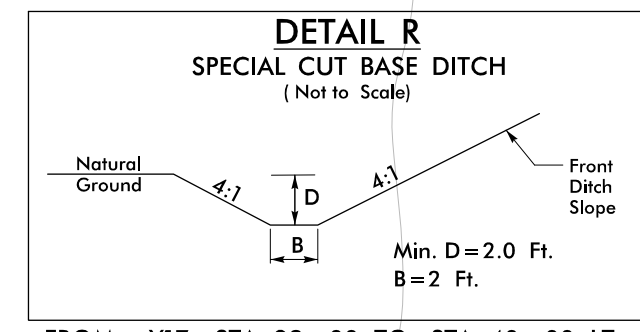
CLEARING AND GRUBBING  
 EROSION CONTROL FOR  
 CONSTRUCTION SHEET 9

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

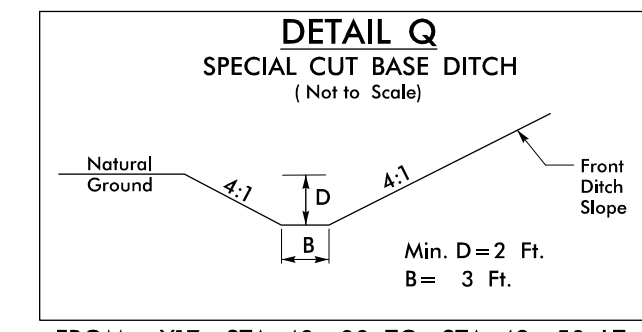
PROJECT REFERENCE NO.	SHEET NO.
U-2519BB	EC-14/CONST.10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



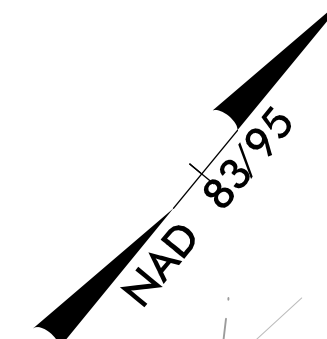
FROM -Y17- STA. 38+00 TO STA. 40+00 RT



FROM -Y17- STA. 38+00 TO STA. 40+00 LT  
FROM -Y17- STA. 40+00 TO STA. 43+50 RT



FROM -Y17- STA. 40+00 TO STA. 43+50 LT

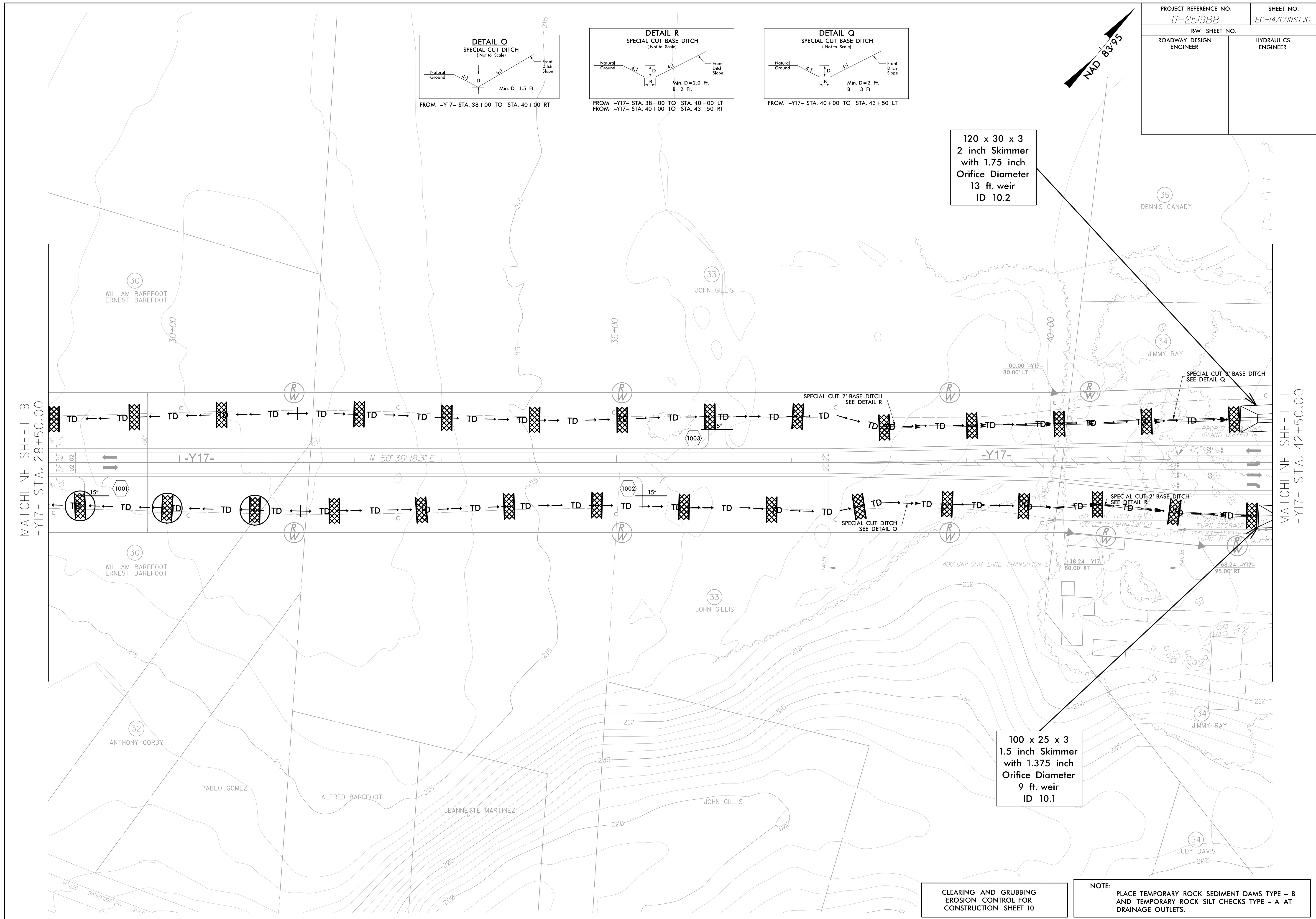


120 x 30 x 3  
2 inch Skimmer  
with 1.75 inch  
Orifice Diameter  
13 ft. weir  
ID 10.2

100 x 25 x 3  
1.5 inch Skimmer  
with 1.375 inch  
Orifice Diameter  
9 ft. weir  
ID 10.1

MATCHLINE SHEET 9  
-Y17- STA. 28+50.00

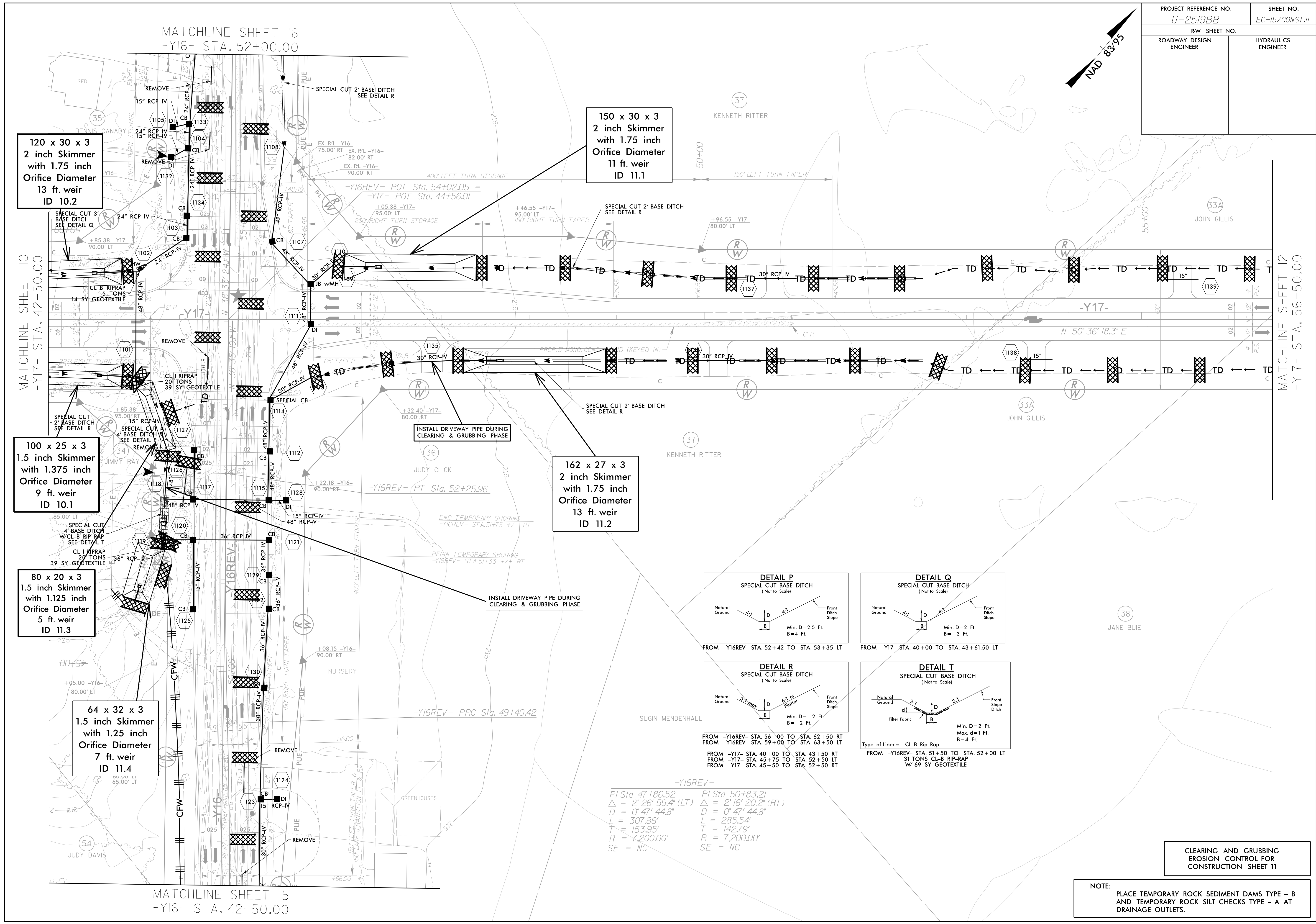
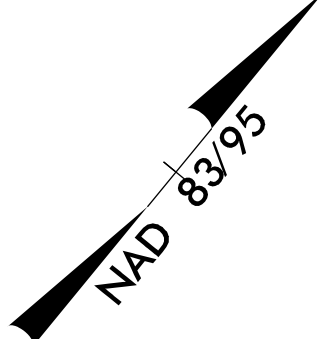
MATCHLINE SHEET 11  
-Y17- STA. 42+50.00



CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 10

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

PROJECT REFERENCE NO. U-2519BB	SHEET NO. EC-15/CONST/11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



120 x 30 x 3  
2 inch Skimmer  
with 1.75 inch  
Orifice Diameter  
13 ft. weir  
ID 10.2

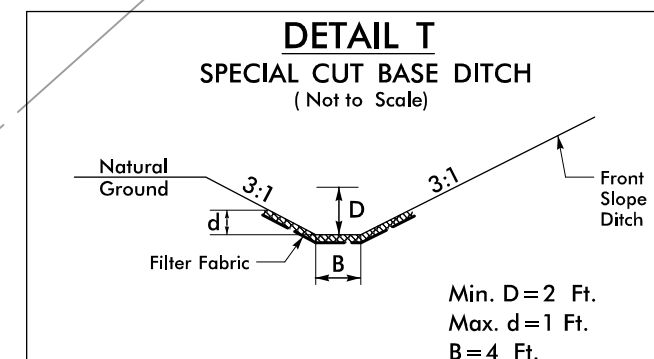
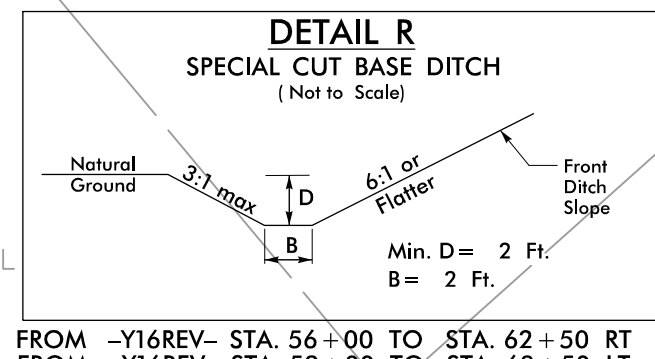
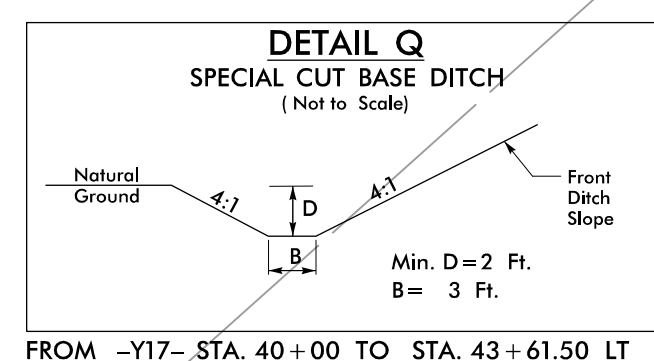
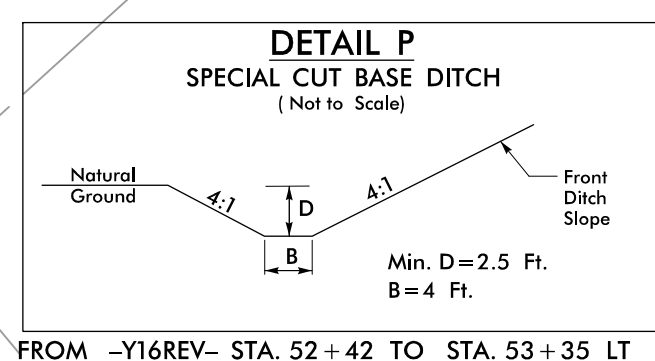
100 x 25 x 3  
1.5 inch Skimmer  
with 1.375 inch  
Orifice Diameter  
9 ft. weir  
ID 10.1

80 x 20 x 3  
1.5 inch Skimmer  
with 1.125 inch  
Orifice Diameter  
5 ft. weir  
ID 11.3

64 x 32 x 3  
1.5 inch Skimmer  
with 1.25 inch  
Orifice Diameter  
7 ft. weir  
ID 11.4

150 x 30 x 3  
2 inch Skimmer  
with 1.75 inch  
Orifice Diameter  
11 ft. weir  
ID 11.1

162 x 27 x 3  
2 inch Skimmer  
with 1.75 inch  
Orifice Diameter  
13 ft. weir  
ID 11.2



-Y16REV-  
PI Sta 47+86.52 PI Sta 50+83.21  
Δ = 2' 26' 59.4" (LT) Δ = 2' 16' 20.2" (RT)  
D = 0' 47' 44.8" D = 0' 47' 44.8"  
L = 307.86' L = 285.54'  
T = 153.95' T = 142.79'  
R = 7,200.00' R = 7,200.00'  
SE = NC SE = NC

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 11

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

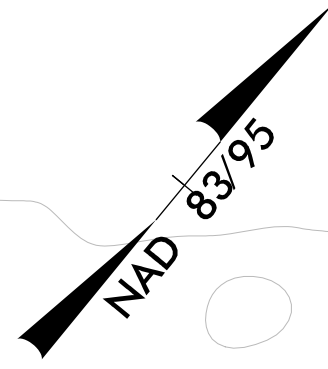
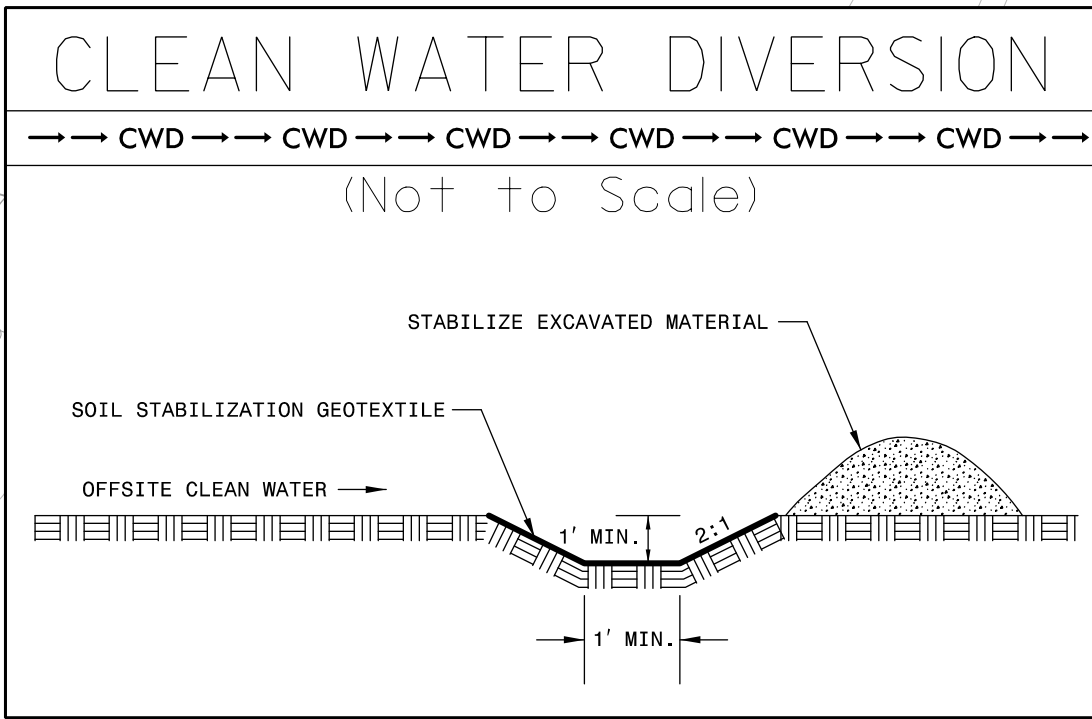
MATCHLINE SHEET 16  
-Y16- STA. 52+00.00

MATCHLINE SHEET 10  
-Y17- STA. 42+50.00

MATCHLINE SHEET 15  
-Y16- STA. 42+50.00

MATCHLINE SHEET 12  
-Y17- STA. 56+50.00

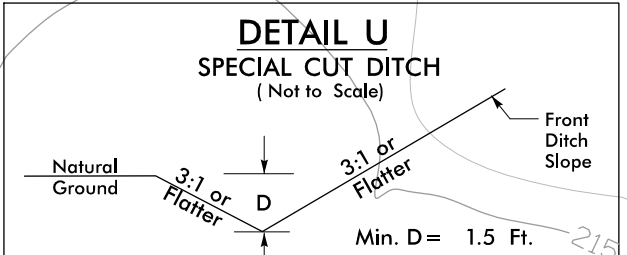
PROJECT REFERENCE NO.	SHEET NO.
U-2519BB	EC-16/CONSTJ2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



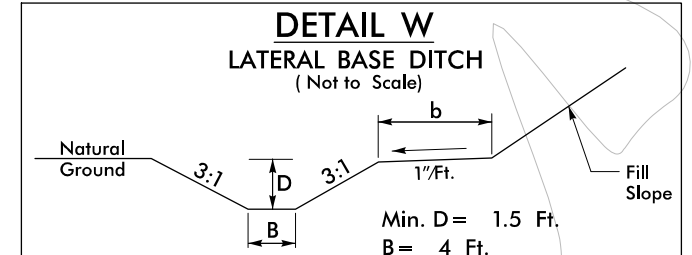
MATCHLINE SHEET II  
-Y17- STA. 56+50.00

MATCHLINE SHEET 5  
-Y17- STA. 70+50.00

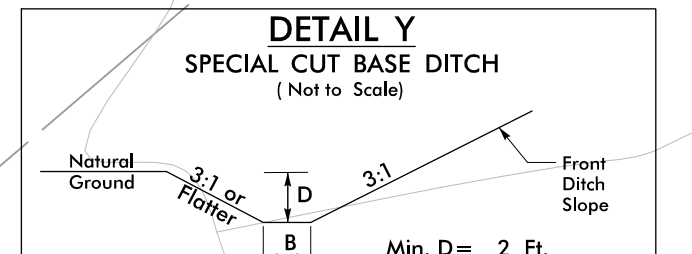
-DR2-  
 PI Sta 10+13.87    PI Sta 11+27.40  
 $\Delta = 49^\circ 51' 52.3''$  (LT)     $\Delta = 41^\circ 07' 02.9''$  (LT)  
 $D = 286' 28'' 44.0''$      $D = 76' 23'' 39.7''$   
 $L = 17.4'$      $L = 53.82'$   
 $T = 9.30'$      $T = 28.13'$   
 $R = 20.00'$      $R = 75.00'$   
 $SE = NC$      $SE = NC$



FROM -Y17- STA. 59+00 TO STA. 65+18 LT  
 FROM -Y17- STA. 59+00 TO STA. 61+00 RT  
 FROM -Y17- STA. 65+00 TO STA. 66+38 RT  
 FROM -Y17- STA. 66+38 TO STA. 68+63 RT  
 FROM -Y17- STA. 69+00 TO STA. 69+63 RT  
 FROM -Y17- STA. 69+63 TO STA. 71+50 RT



FROM -Y17- STA. 65+18 TO STA. 72+00 LT



FROM -SRI- STA. 10+50 TO STA. 20+00 LT  
 FROM -SR2- STA. 10+50 TO STA. 16+38 RT

100 x 20 x 3  
 1.5 inch Skimmer  
 with 1.25 inch  
 Orifice Diameter  
 7 ft. weir  
 ID 12.7

50 x 25 x 3  
 1.5 inch Skimmer  
 with 1 inch  
 Orifice Diameter  
 4 ft. weir  
 ID 12.1

44 x 22 x 3  
 1.5 inch Skimmer  
 with 0.875 inch  
 Orifice Diameter  
 4 ft. weir  
 ID 12.8

60 x 12 x 3  
 1.5 inch Skimmer  
 with 0.625 inch  
 Orifice Diameter  
 4 ft. weir  
 ID 12.3

90 x 15 x 3  
 1.5 inch Skimmer  
 with 1 inch  
 Orifice Diameter  
 4 ft. weir  
 ID 12.5

60 x 20 x 3  
 1.5 inch Skimmer  
 with 1.25 inch  
 Orifice Diameter  
 8 ft. weir  
 (See Tiered Skimmer  
 Basin Detail)  
 ID 12.2

Modified Silt Basin  
 Type 'B'  
 60 x 20 x 3  
 8 ft. weir  
 (See Tiered Skimmer  
 Basin Detail)  
 ID 12.2

44 x 22 x 3  
 1.5 inch Skimmer  
 with 0.875 inch  
 Orifice Diameter  
 4 ft. weir  
 ID 12.4

80 x 20 x 3  
 1.5 inch Skimmer  
 with 1.125 inch  
 Orifice Diameter  
 6 ft. weir  
 ID 12.6

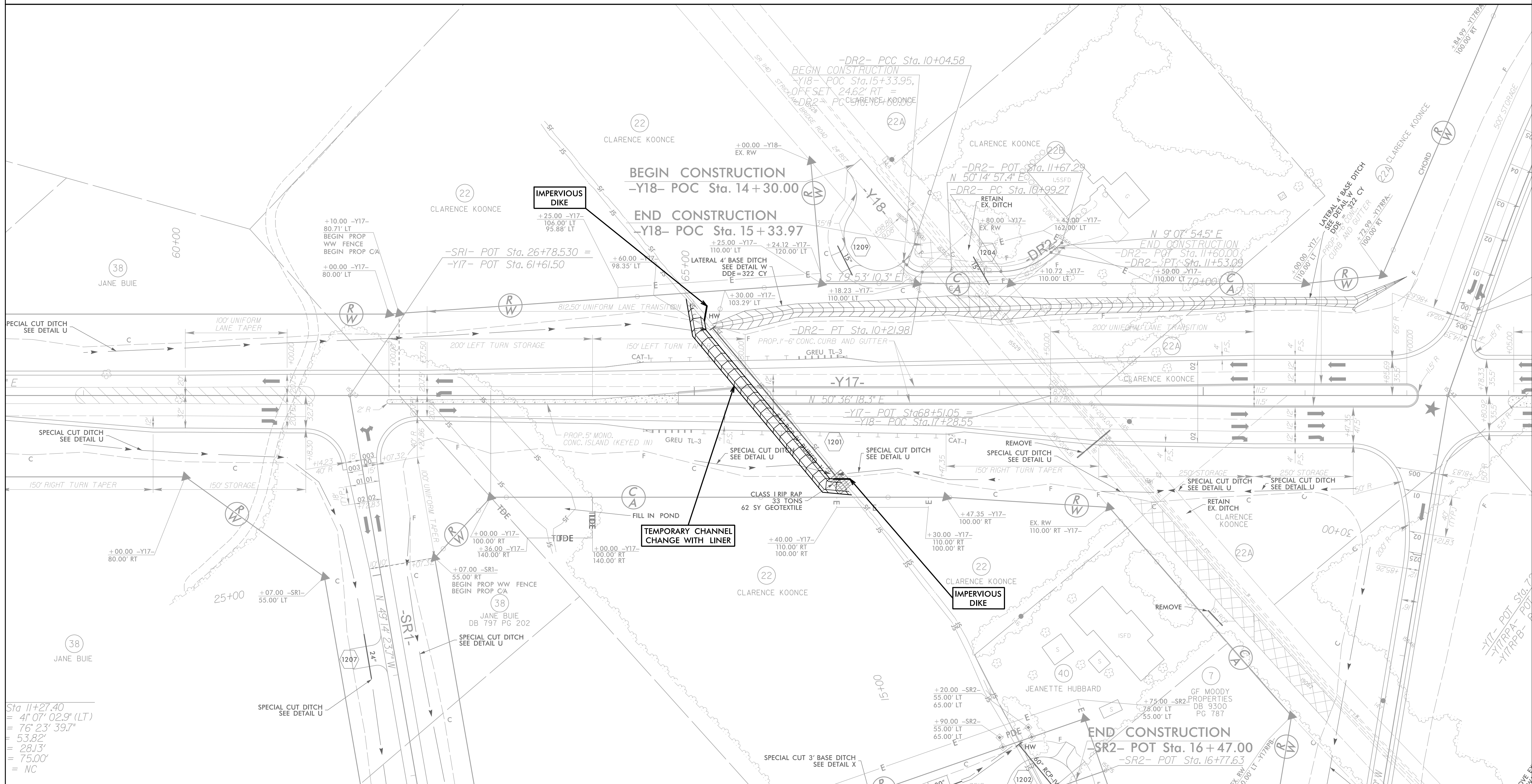
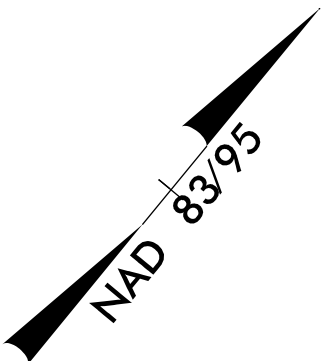
NOTE:  
 PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
 AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
 DRAINAGE OUTLETS.

MATCHLINE SHEET 17  
 -SRI- STA. 20+00.00

PROJECT REFERENCE NO.	SHEET NO.
U-2519BB	EC-17/CONST.2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# PIPE CONSTRUCTION SEQUENCE STA. 65+73 -Y17-

1. UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED THROUGHOUT PIPE CONSTRUCTION.
2. INSTALL IMPERVIOUS DIKES AND TEMPORARY CHANNEL CHANGE WITH LINER (8 FT. BASE, 2. FT DEEP, 1.5:1 SIDE SLOPES), DIVERTING FLOW.
3. CONSTRUCT PROPOSED 54" RCP-IV PIPE AND ANY NECESSARY INLET/OUTLET CHANNEL IMPROVEMENTS.
4. REMOVE IMPERVIOUS DIKES AND TEMPORARY CHANNEL CHANGE WITH LINER, ALLOWING FLOW THROUGH PROPOSED PIPE.
5. REMOVE ANY REMAINING SPECIAL STILLING BASIN(S) AND COMPLETE ROADWAY.



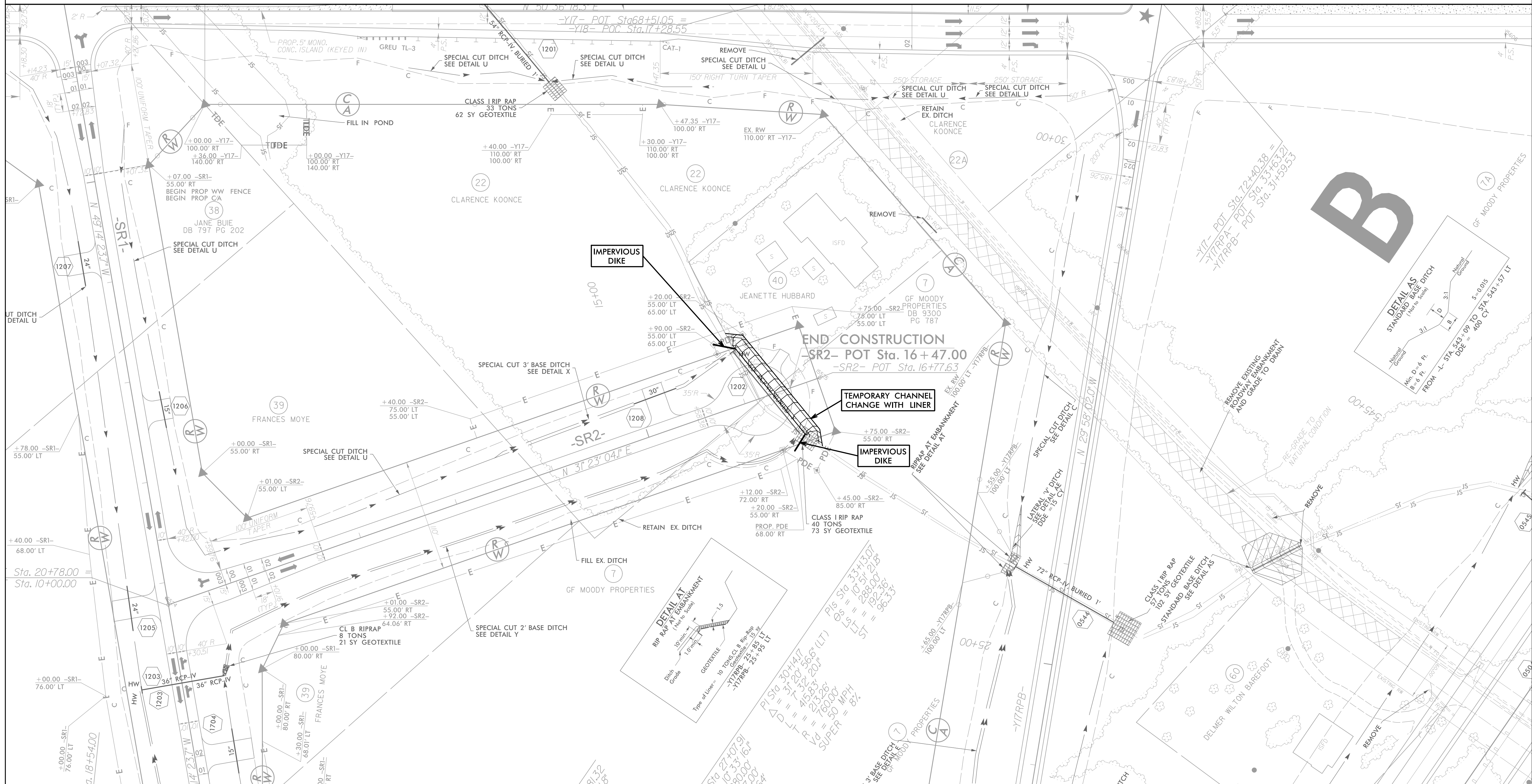
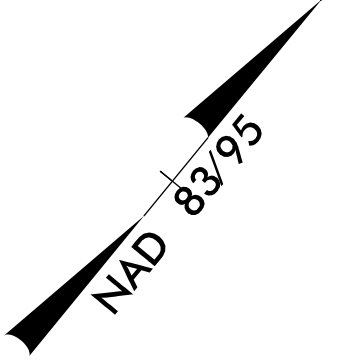
Sta 11+27.40  
 = 41° 07' 02.9" (LT)  
 = 76° 23' 39.7"  
 = 53.82'  
 = 284.3'  
 = 75.00'  
 = NC



PROJECT REFERENCE NO.	SHEET NO.
U-2519BB	EC-18/CONSTJ2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

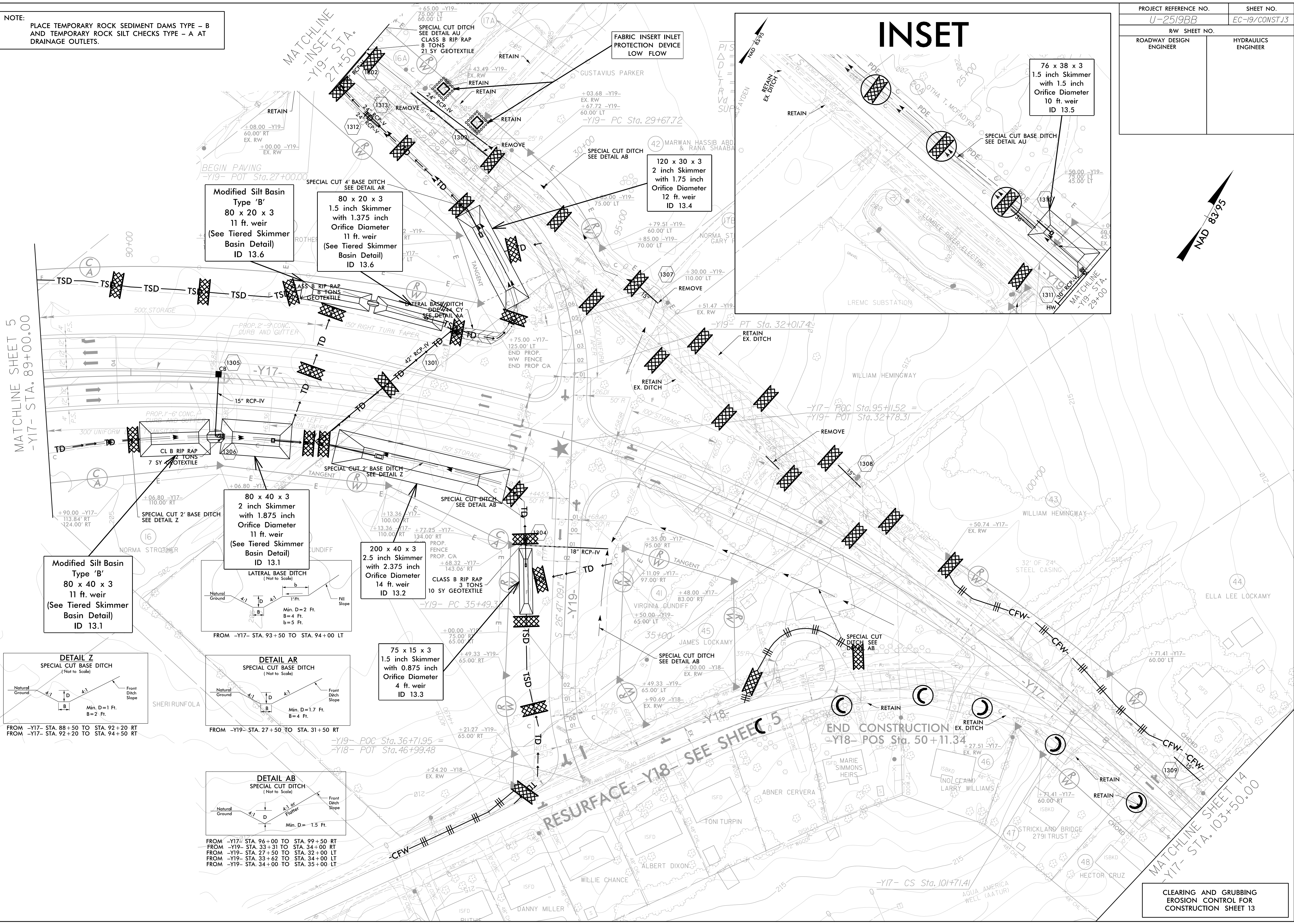
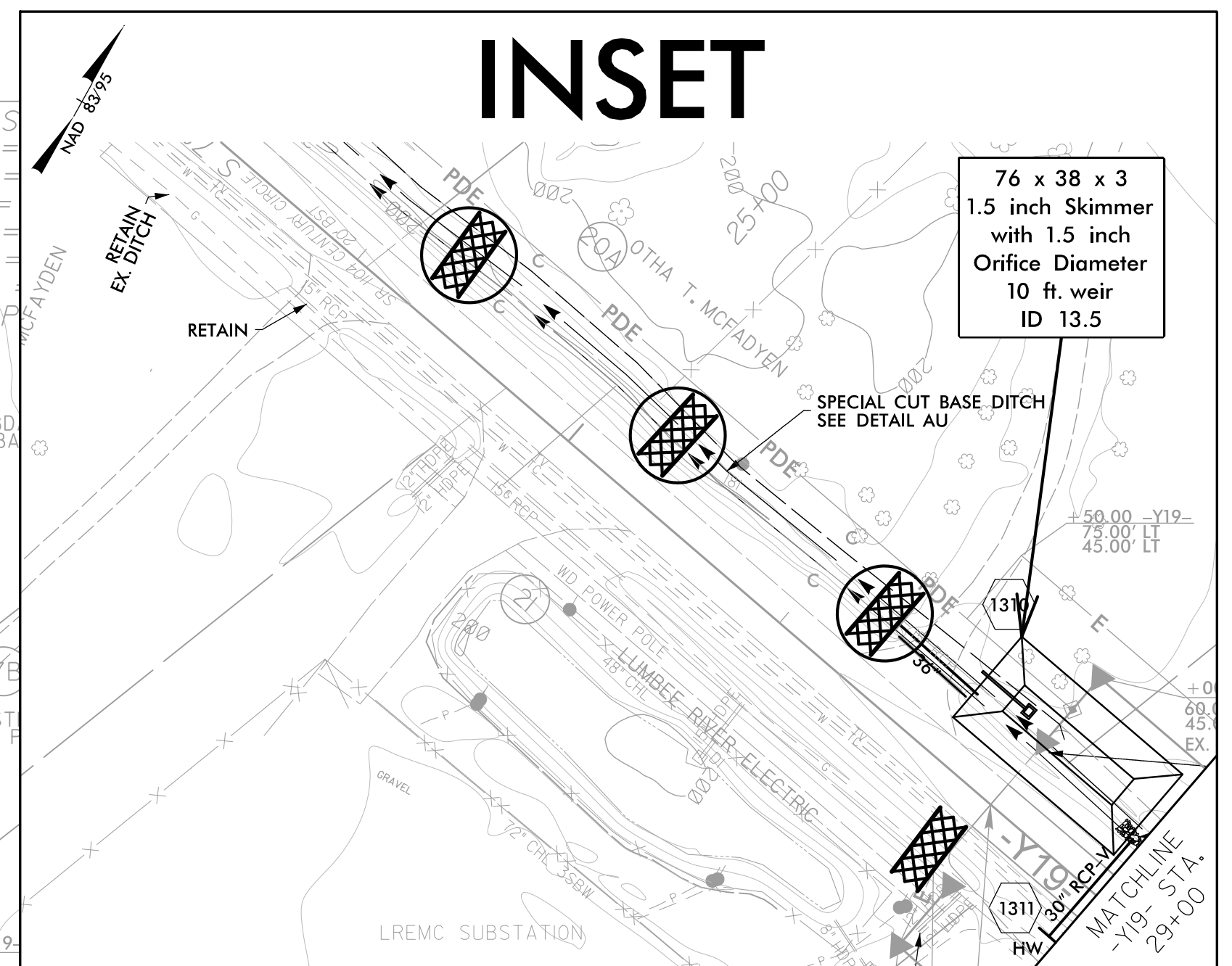
# PIPE CONSTRUCTION SEQUENCE STA. 16+25 -SR2-

1. UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED THROUGHOUT PIPE CONSTRUCTION.
2. INSTALL IMPERVIOUS DIKES AND TEMPORARY CHANNEL CHANGE WITH LINER (8 FT. BASE, 2. FT DEEP, 1.5:1 SIDE SLOPES), DIVERTING FLOW.
3. CONSTRUCT PROPOSED 60" RCP-IV PIPE AND ANY NECESSARY INLET/OUTLET CHANNEL IMPROVEMENTS.
4. REMOVE IMPERVIOUS DIKES AND TEMPORARY CHANNEL CHANGE WITH LINER, ALLOWING FLOW THROUGH PROPOSED PIPE.
5. REMOVE ANY REMAINING SPECIAL STILLING BASIN(S) AND COMPLETE ROADWAY.



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

PROJECT REFERENCE NO.	SHEET NO.
U-2519BB	EC-19/CONSTJ3
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



Modified Silt Basin  
Type 'B'  
80 x 20 x 3  
11 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 13.6

80 x 20 x 3  
1.5 inch Skimmer  
with 1.375 inch  
Orifice Diameter  
11 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 13.6

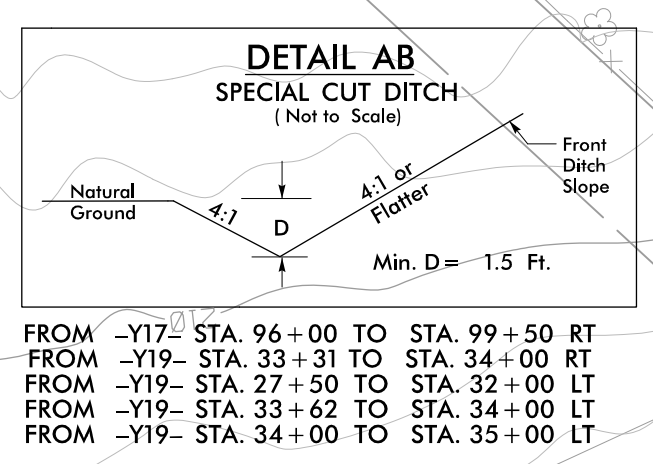
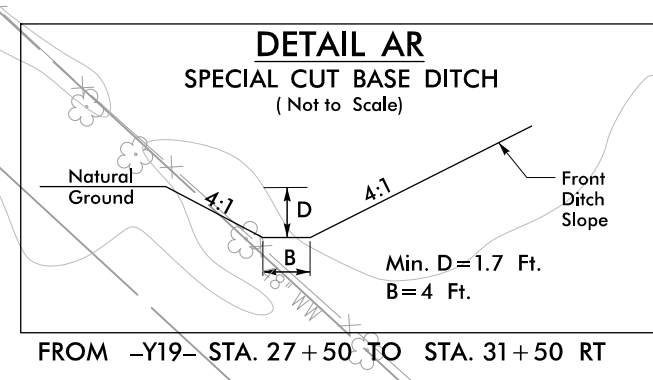
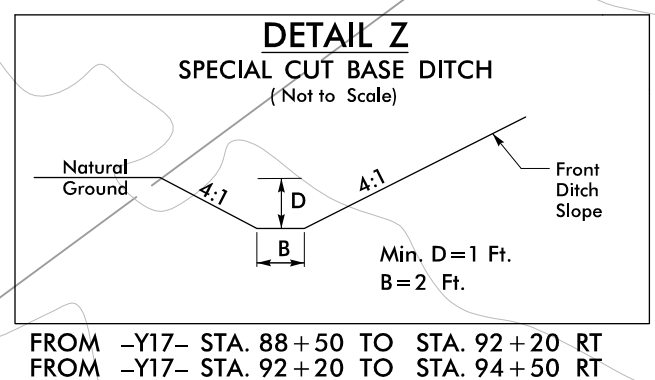
120 x 30 x 3  
2 inch Skimmer  
with 1.75 inch  
Orifice Diameter  
12 ft. weir  
ID 13.4

Modified Silt Basin  
Type 'B'  
80 x 40 x 3  
11 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 13.1

80 x 40 x 3  
2 inch Skimmer  
with 1.875 inch  
Orifice Diameter  
11 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 13.1

200 x 40 x 3  
2.5 inch Skimmer  
with 2.375 inch  
Orifice Diameter  
14 ft. weir  
ID 13.2

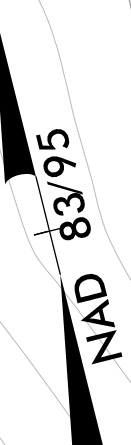
75 x 15 x 3  
1.5 inch Skimmer  
with 0.875 inch  
Orifice Diameter  
4 ft. weir  
ID 13.3



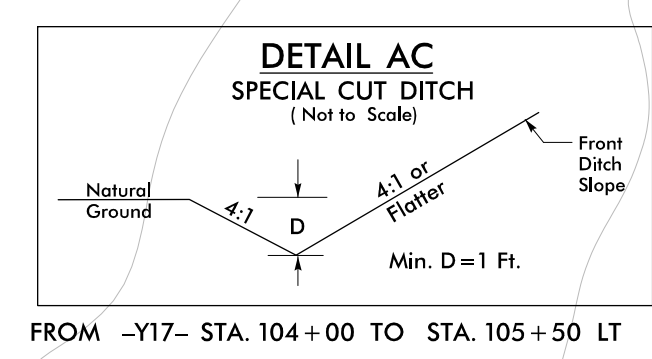
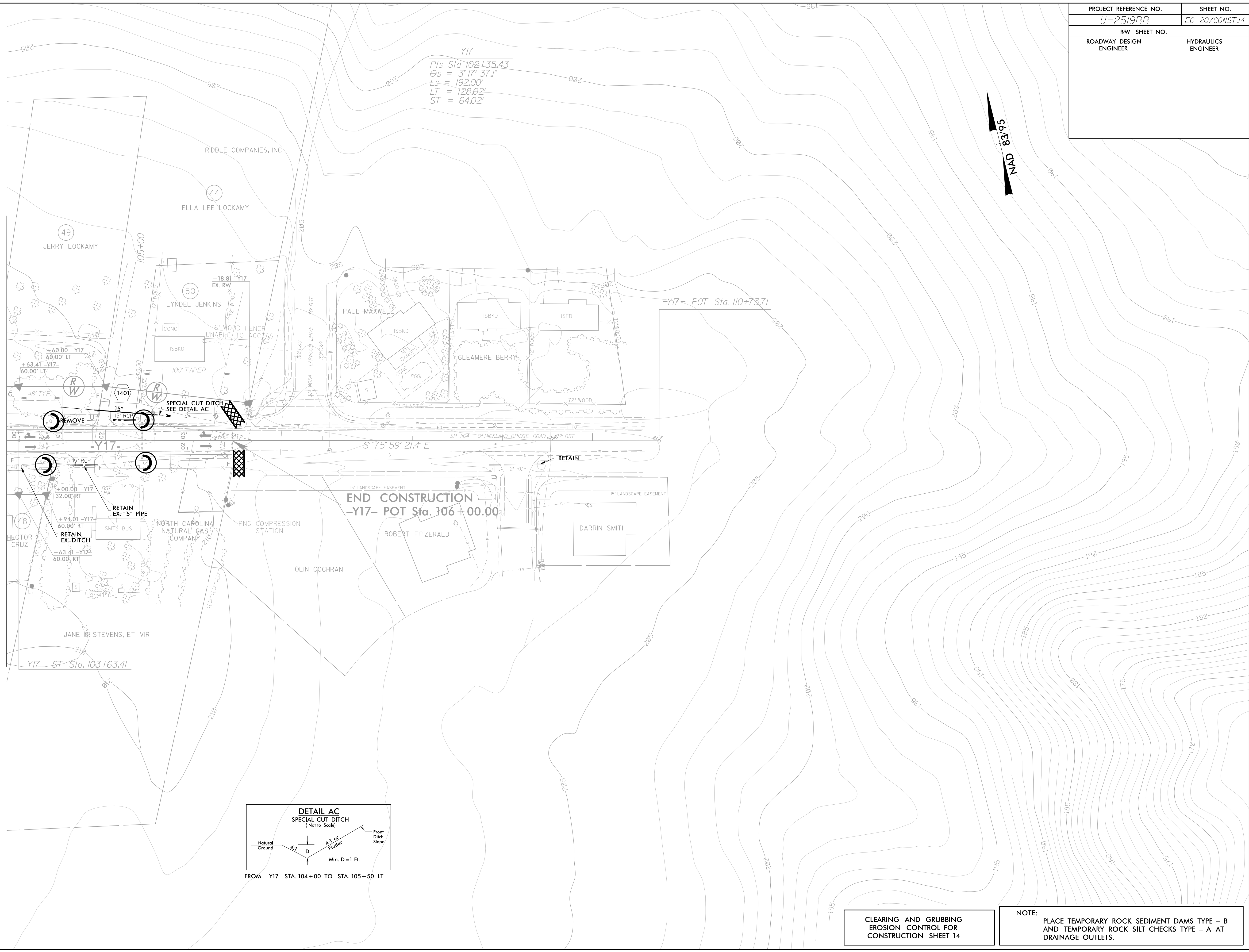
CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 13

PROJECT REFERENCE NO.	SHEET NO.
U-2519BB	EC-20/CONST.14
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-Y17-  
 PIs Sta 102+35.43  
 Os = 3' 17' 37.1"  
 Ls = 192.00'  
 LT = 128.02'  
 ST = 64.02'



MATCHLINE SHEET 13  
 -Y17- STA. 103+50.00

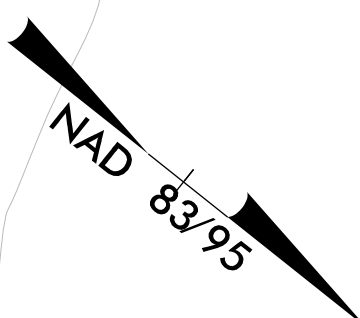


CLEARING AND GRUBBING  
 EROSION CONTROL FOR  
 CONSTRUCTION SHEET 14

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



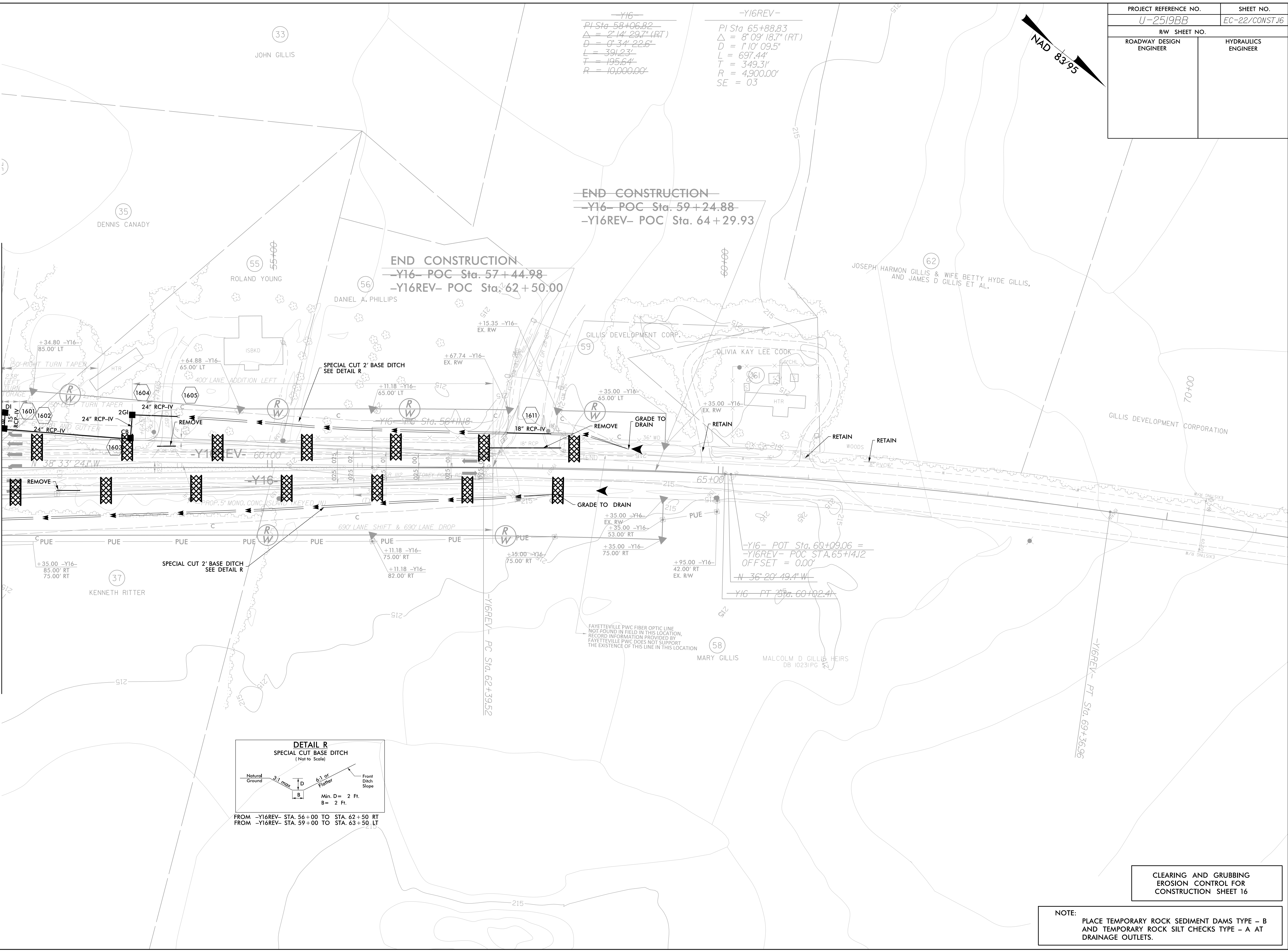
PROJECT REFERENCE NO.	SHEET NO.
U-2519BB	EC-22/CONST.16
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



~~-Y16-~~  
~~PI Sta. 58+06.82~~  
~~Δ = 2°14'29.7" (RT)~~  
~~D = 0°34'22.6"~~  
~~L = 391.23'~~  
~~T = 195.64'~~  
~~R = 10,000.00'~~

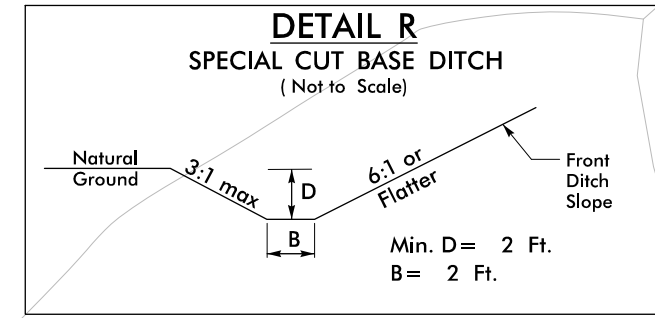
~~-Y16REV-~~  
~~PI Sta. 65+88.83~~  
~~Δ = 8°09'18.7" (RT)~~  
~~D = 1°10'09.5"~~  
~~L = 697.44'~~  
~~T = 349.31'~~  
~~R = 4,900.00'~~  
~~SE = 03~~

MATCHLINE SHEET II  
 -Y16- STA. 52+00.00



**END CONSTRUCTION**  
~~-Y16- POC Sta. 57+44.98~~  
~~-Y16REV- POC Sta. 62+50.00~~

-Y16- POT Sta. 60+09.06 =  
 -Y16REV- POC Sta. 65+14.12  
 OFFSET = 0.00'  
 N 36°20'49.1\" W  
 -Y16- PT Sta. 60+02.41



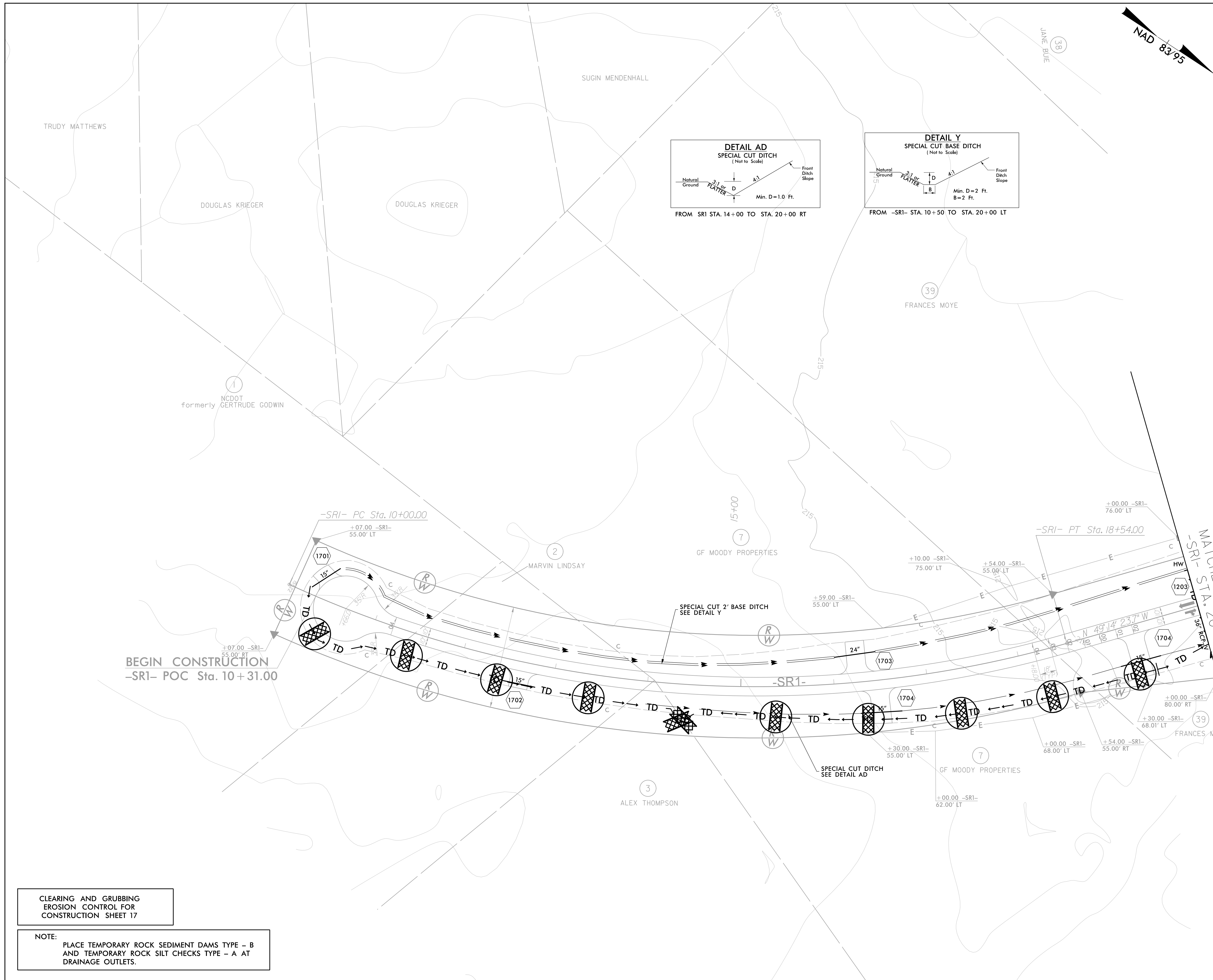
FROM -Y16REV- STA. 56+00 TO STA. 62+50 RT  
 FROM -Y16REV- STA. 59+00 TO STA. 63+50 LT

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.	SHEET NO.
U-2519BB	EC-23/CONST.17
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83 95



BEGIN CONSTRUCTION  
-SRI- POC Sta. 10+31.00

MATCHLINE SHEET 12  
-SRI- STA. 20+00.00

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 17

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



Place Matting for Erosion Control on Slope as Work Allows.  
 -L- Sta. 534+50 to 538+00 RT  
 -L- Sta. 544+50 to 546+00 RT

Place Matting for Erosion Control on Slope as Work Allows.  
 -DRI- Sta. 15+00 to 16+50 LT

Place Matting for Erosion Control on Slope as Work Allows.  
 -Y17- Sta. 65+50 to 72+00 LT  
 -Y17- Sta. 72+50 to 79+00 RT  
 -Y17- Sta. 73+00 to 79+00 LT  
 -Y17- Sta. 82+50 to 88+00 RT  
 -Y17- Sta. 82+50 to 94+50 LT

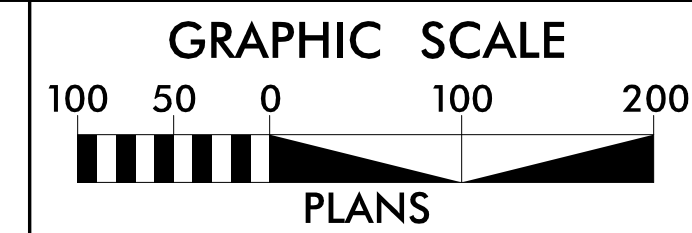
Place Matting for Erosion Control on Slope as Work Allows.  
 -Y17RPA- Sta. 29+50 to 33+50 RT  
 -Y17RPA- Sta. 32+50 to 33+50 LT

Place Matting for Erosion Control on Slope as Work Allows.  
 -Y17RPA- Sta. 25+50 to 31+00 RT  
 -Y17RPA- Sta. 30+50 to 31+00 LT

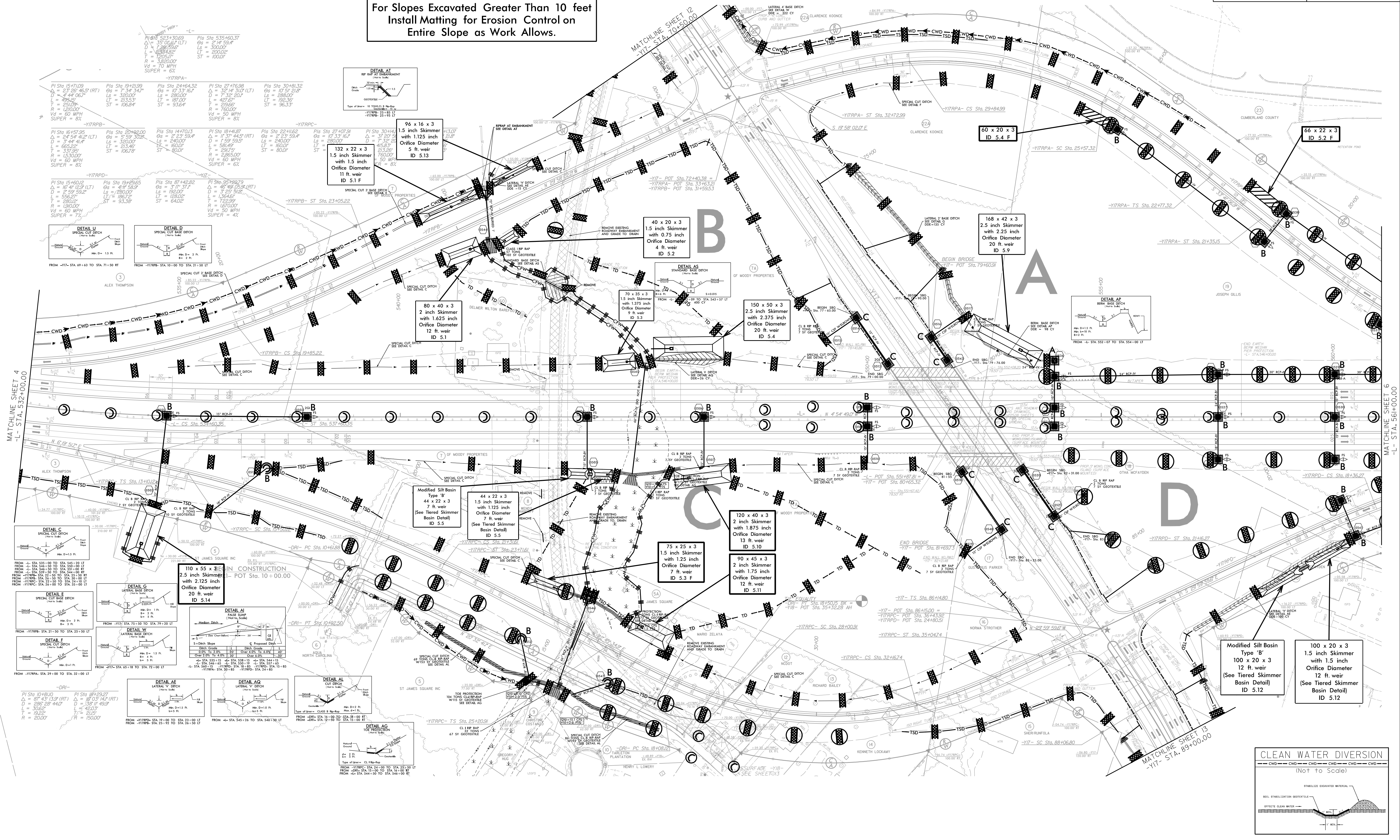
Place Matting for Erosion Control on Slope as Work Allows.  
 -Y17RPC- Sta. 10+00 to 18+00 RT  
 -Y17RPC- Sta. 15+00 to 19+00 LT  
 -Y17RPC- Sta. 23+00 to 25+50 LT  
 -Y17RPC- Sta. 23+00 to 26+50 RT  
 -Y17RPC- Sta. 32+50 to 36+00 RT  
 -Y17RPC- Sta. 35+50 to 36+00 LT

Place Matting for Erosion Control on Slope as Work Allows.  
 -Y17RPD- Sta. 19+50 to 24+00 LT  
 -Y17RPD- Sta. 20+00 to 24+00 RT

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.



PROJECT REFERENCE NO. <i>U-2519BB</i>	SHEET NO. <i>EC-25/CONST.5</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



For Slopes Excavated Greater Than 10 feet Install Matting for Erosion Control on Entire Slope as Work Allows.

PI Sta. 523+30.69 $\Delta = 23.50' 46.51'$ (RT) $D = 44.06'$ $L = 655.22'$ $T = 120.00'$ $R = 153.00'$ $Vd = 70$ MPH $SUPER = 6\%$	PI Sta. 535+60.37 $\Delta = 27.00' 00.00'$ (LT) $D = 30.00'$ $L = 200.00'$ $T = 20.00'$ $R = 153.00'$ $Vd = 70$ MPH $SUPER = 6\%$
PI Sta. 19+29.99 $\Delta = 7.54' 34.7'$ $D = 44.06'$ $L = 655.22'$ $T = 120.00'$ $R = 153.00'$ $Vd = 70$ MPH $SUPER = 6\%$	PI Sta. 24+64.32 $\Delta = 17.33' 37.4'$ $D = 30.00'$ $L = 180.00'$ $T = 18.00'$ $R = 153.00'$ $Vd = 70$ MPH $SUPER = 6\%$
PI Sta. 27+76.98 $\Delta = 32.14' 51.0'$ (LT) $D = 7.32' 20.1'$ $L = 167.50'$ $T = 29.75'$ $R = 160.00'$ $Vd = 50$ MPH $SUPER = 8\%$	PI Sta. 30+81.32 $\Delta = 17.33' 37.4'$ $D = 30.00'$ $L = 200.00'$ $T = 20.00'$ $R = 153.00'$ $Vd = 70$ MPH $SUPER = 6\%$

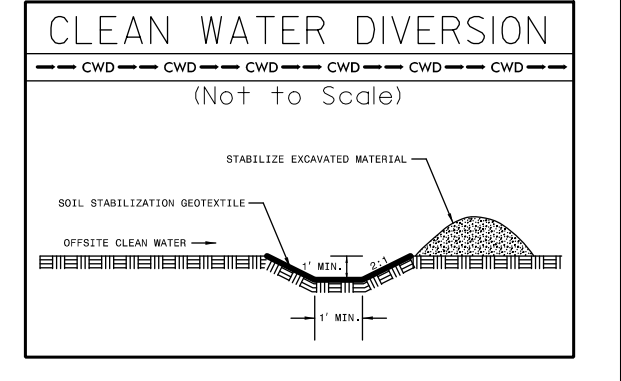
PI Sta. 16+57.95 $\Delta = 24.54' 41.2'$ (LT) $D = 3.44' 41.4'$ $L = 655.22'$ $T = 120.00'$ $R = 153.00'$ $Vd = 70$ MPH $SUPER = 6\%$	PI Sta. 20+92.00 $\Delta = 2.70' 37.4'$ $D = 30.00'$ $L = 180.00'$ $T = 18.00'$ $R = 153.00'$ $Vd = 70$ MPH $SUPER = 6\%$
PI Sta. 19+41.87 $\Delta = 17.33' 37.4'$ (RT) $D = 3.44' 41.4'$ $L = 655.22'$ $T = 120.00'$ $R = 153.00'$ $Vd = 70$ MPH $SUPER = 6\%$	PI Sta. 22+41.82 $\Delta = 46.29' 51.0'$ (LT) $D = 7.32' 20.1'$ $L = 167.50'$ $T = 29.75'$ $R = 160.00'$ $Vd = 50$ MPH $SUPER = 8\%$
PI Sta. 15+00.00 $\Delta = 25.59' 59.2'$ $D = 1.80' 00.0'$ $L = 150.00'$ $T = 20.00'$ $R = 153.00'$ $Vd = 70$ MPH $SUPER = 6\%$	PI Sta. 17+42.82 $\Delta = 3.29' 51.2'$ $D = 182.00'$ $L = 182.00'$ $T = 722.59'$ $R = 153.00'$ $Vd = 70$ MPH $SUPER = 4\%$

PI Sta. 19+29.99 $\Delta = 7.54' 34.7'$ $D = 44.06'$ $L = 655.22'$ $T = 120.00'$ $R = 153.00'$ $Vd = 70$ MPH $SUPER = 6\%$	PI Sta. 24+64.32 $\Delta = 17.33' 37.4'$ $D = 30.00'$ $L = 180.00'$ $T = 18.00'$ $R = 153.00'$ $Vd = 70$ MPH $SUPER = 6\%$
PI Sta. 27+76.98 $\Delta = 32.14' 51.0'$ (LT) $D = 7.32' 20.1'$ $L = 167.50'$ $T = 29.75'$ $R = 160.00'$ $Vd = 50$ MPH $SUPER = 8\%$	PI Sta. 30+81.32 $\Delta = 17.33' 37.4'$ $D = 30.00'$ $L = 200.00'$ $T = 20.00'$ $R = 153.00'$ $Vd = 70$ MPH $SUPER = 6\%$

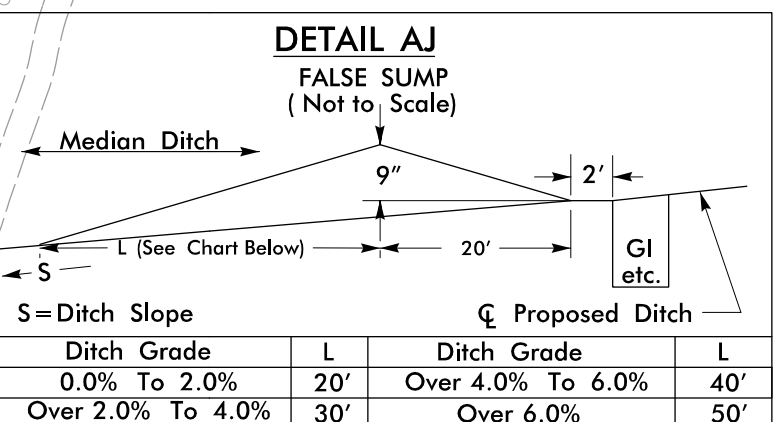
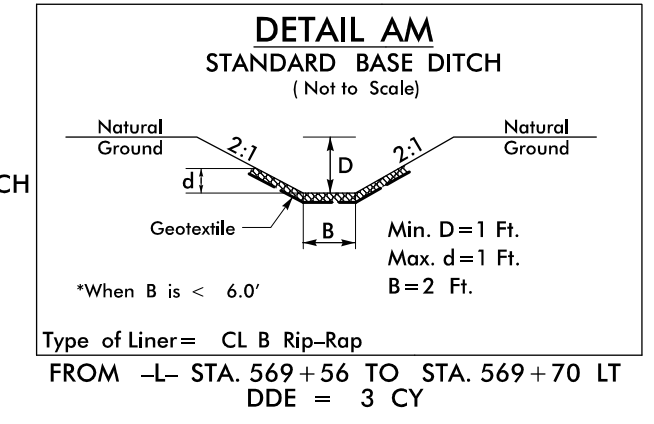
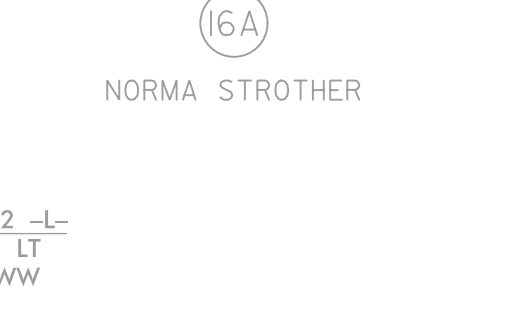
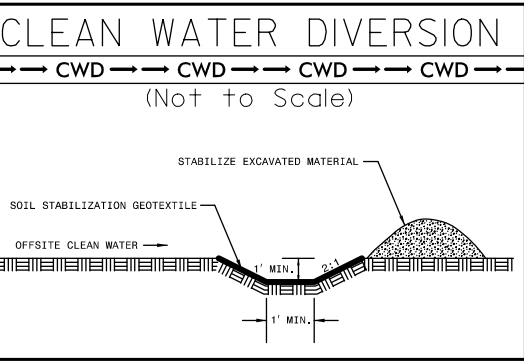
PI Sta. 16+57.95 $\Delta = 24.54' 41.2'$ (LT) $D = 3.44' 41.4'$ $L = 655.22'$ $T = 120.00'$ $R = 153.00'$ $Vd = 70$ MPH $SUPER = 6\%$	PI Sta. 20+92.00 $\Delta = 2.70' 37.4'$ $D = 30.00'$ $L = 180.00'$ $T = 18.00'$ $R = 153.00'$ $Vd = 70$ MPH $SUPER = 6\%$
PI Sta. 19+41.87 $\Delta = 17.33' 37.4'$ (RT) $D = 3.44' 41.4'$ $L = 655.22'$ $T = 120.00'$ $R = 153.00'$ $Vd = 70$ MPH $SUPER = 6\%$	PI Sta. 22+41.82 $\Delta = 46.29' 51.0'$ (LT) $D = 7.32' 20.1'$ $L = 167.50'$ $T = 29.75'$ $R = 160.00'$ $Vd = 50$ MPH $SUPER = 8\%$

PI Sta. 15+00.00 $\Delta = 25.59' 59.2'$ $D = 1.80' 00.0'$ $L = 150.00'$ $T = 20.00'$ $R = 153.00'$ $Vd = 70$ MPH $SUPER = 6\%$	PI Sta. 17+42.82 $\Delta = 3.29' 51.2'$ $D = 182.00'$ $L = 182.00'$ $T = 722.59'$ $R = 153.00'$ $Vd = 70$ MPH $SUPER = 4\%$
--	--

PI Sta. 19+29.99 $\Delta = 7.54' 34.7'$ $D = 44.06'$ $L = 655.22'$ $T = 120.00'$ $R = 153.00'$ $Vd = 70$ MPH $SUPER = 6\%$	PI Sta. 24+64.32 $\Delta = 17.33' 37.4'$ $D = 30.00'$ $L = 180.00'$ $T = 18.00'$ $R = 153.00'$ $Vd = 70$ MPH $SUPER = 6\%$
PI Sta. 27+76.98 $\Delta = 32.14' 51.0'$ (LT) $D = 7.32' 20.1'$ $L = 167.50'$ $T = 29.75'$ $R = 160.00'$ $Vd = 50$ MPH $SUPER = 8\%$	PI Sta. 30+81.32 $\Delta = 17.33' 37.4'$ $D = 30.00'$ $L = 200.00'$ $T = 20.00'$ $R = 153.00'$ $Vd = 70$ MPH $SUPER = 6\%$





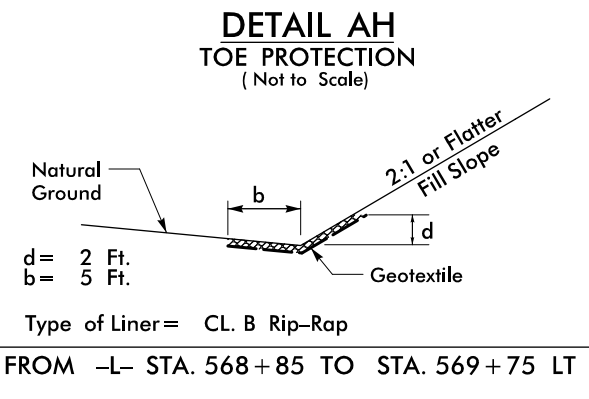


Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

For Slopes Excavated Greater Than 10 feet Install Matting for Erosion Control on Entire Slope as Work Allows.

NAD 83/95

Place Matting for Erosion Control on Slope as Work Allows.  
-L- Sta. 569+50 to 570+50 LT



30 x 30 x 3  
1.5 inch Skimmer  
with 0.75 inch  
Orifice Diameter  
19 ft. weir  
ID 6.1

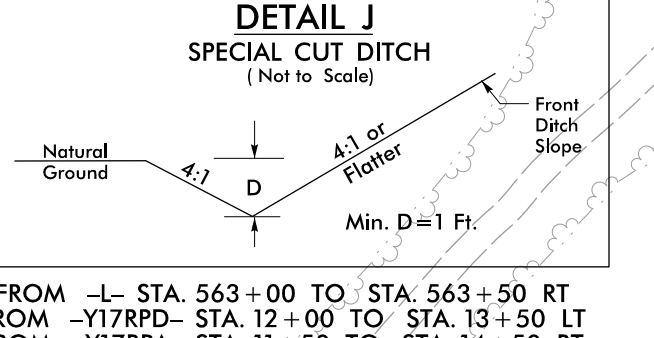
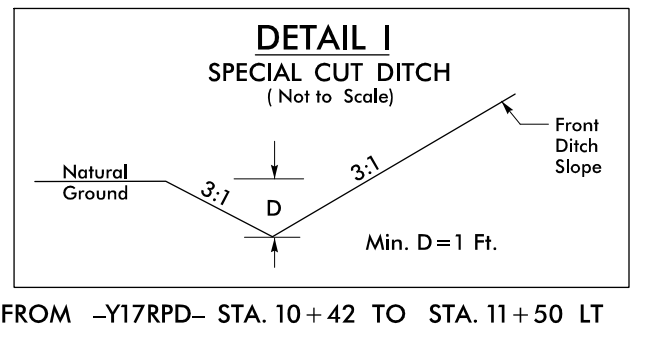
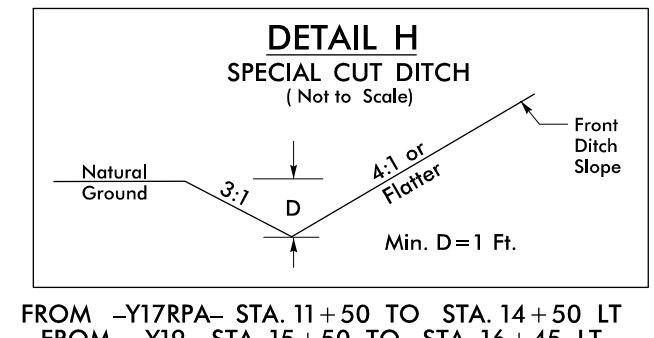
Place Matting for Erosion Control on Slope as Work Allows.  
-Y17RPD- Sta. 10+00 to 10+50 LT

Modified Silt Basin  
Type 'B'  
60 x 20 x 3  
6 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 6.4

60 x 20 x 3  
1.5 inch Skimmer  
with 1.25 inch  
Orifice Diameter  
6 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 6.4

120 x 40 x 3  
2.5 inch Skimmer  
with 2.25 inch  
Orifice Diameter  
17 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 6.3

Modified Silt Basin  
Type 'B'  
120 x 40 x 3  
17 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 6.3



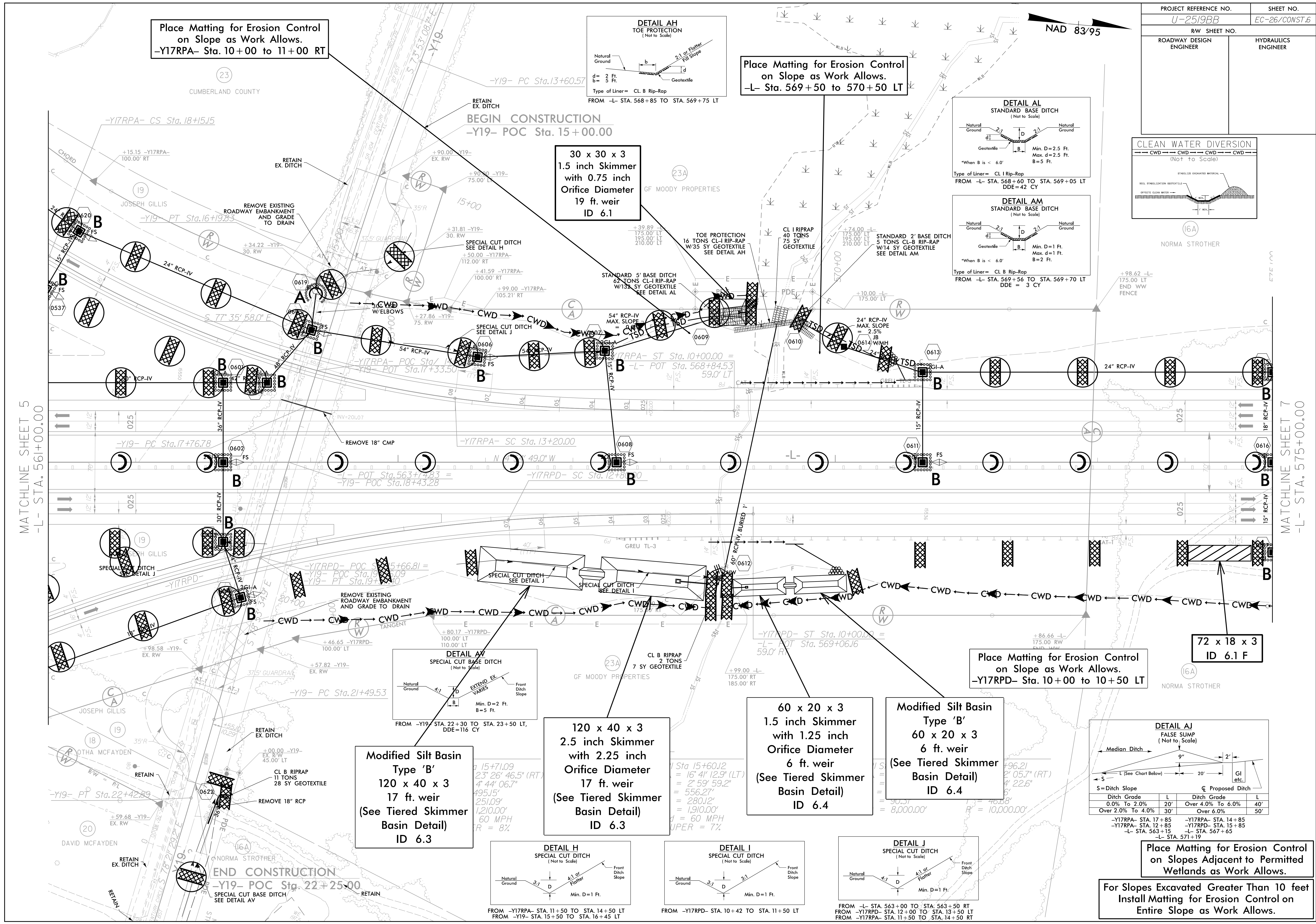
Place Matting for Erosion Control on Slope as Work Allows.  
-Y17RPA- Sta. 10+00 to 11+00 RT

BEGIN CONSTRUCTION  
-Y19- POC Sta. 15+00.00

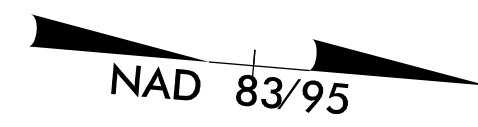
END CONSTRUCTION  
-Y19- POC Sta. 22+25.00

MATCHLINE SHEET 5  
-L- STA. 56+00.00

MATCHLINE SHEET 7  
-L- STA. 575+00.00



ALL EROSION CONTROLS MEASURES FROM  
-L- STA. 585+00 TO -L- STA. 604+39 WERE  
DESIGNED BY OTHERS AS PART OF U-2519CA.



80 x 40 x 3  
2.0 inch Skimmer  
with 1.875 inch  
Orifice Diameter  
24 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 5.1B

30 x 180 x 3  
2.0 inch Skimmer  
with 2.0 inch  
Orifice Diameter  
21 ft. weir  
ID 4.1B

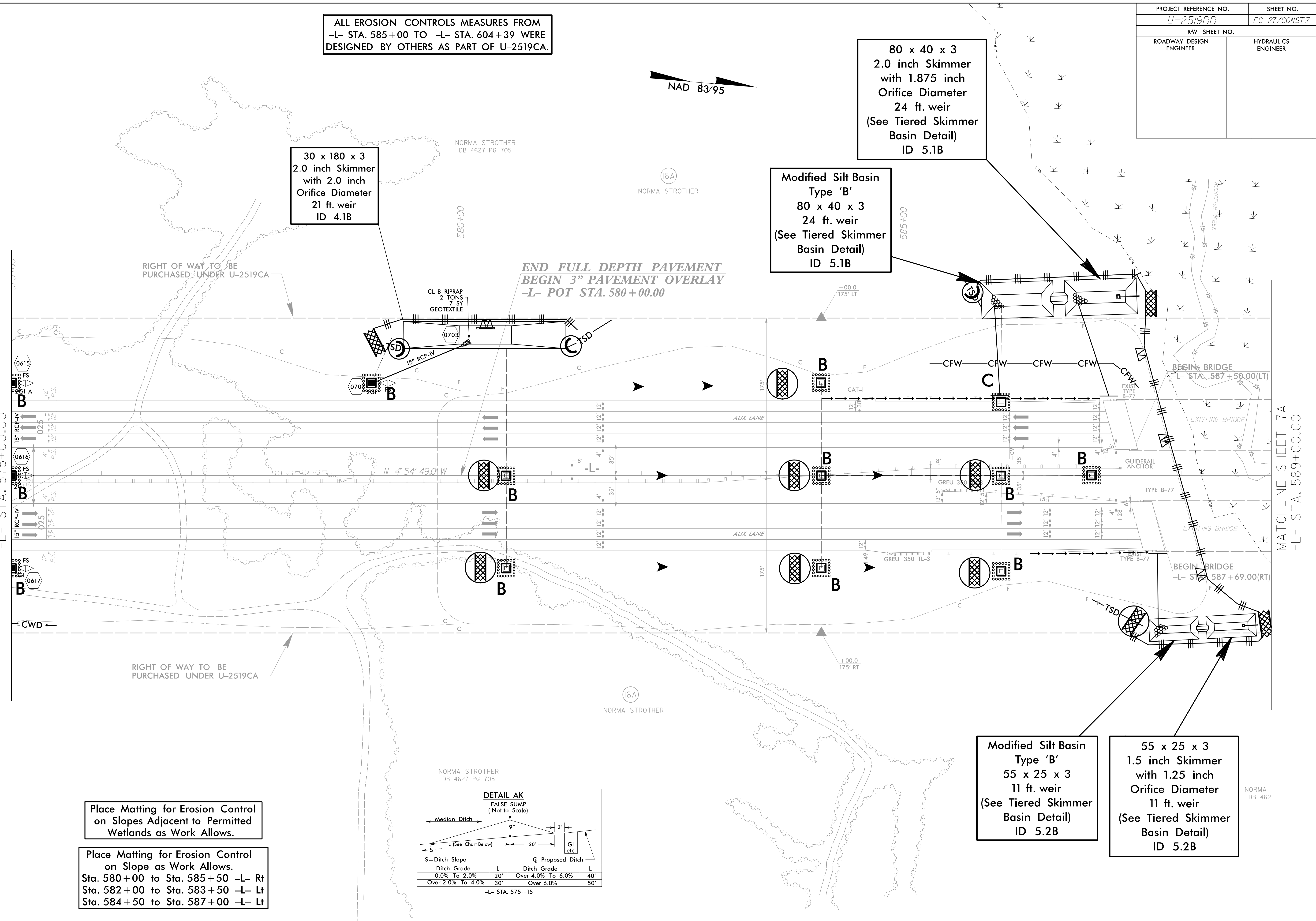
Modified Silt Basin  
Type 'B'  
80 x 40 x 3  
24 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 5.1B

Modified Silt Basin  
Type 'B'  
55 x 25 x 3  
11 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 5.2B

55 x 25 x 3  
1.5 inch Skimmer  
with 1.25 inch  
Orifice Diameter  
11 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 5.2B

MATCHLINE SHEET 6  
-L- STA. 575+00.00

MATCHLINE SHEET 7A  
-L- STA. 589+00.00



Place Matting for Erosion Control  
on Slopes Adjacent to Permitted  
Wetlands as Work Allows.

Place Matting for Erosion Control  
on Slope as Work Allows.  
Sta. 580+00 to Sta. 585+50 -L- Rt  
Sta. 582+00 to Sta. 583+50 -L- Lt  
Sta. 584+50 to Sta. 587+00 -L- Lt

NORMA STROTHER  
DB 4627 PG 705

**DETAIL AK**  
FALSE SUMP  
(Not to Scale)

S=Ditch Slope		G=Proposed Ditch	
Ditch Grade	L	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'

-L- STA. 575+15

NORMA  
DB 462

PROJECT REFERENCE NO.	SHEET NO.
U-2519BB	EC-27A/CONST.07A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

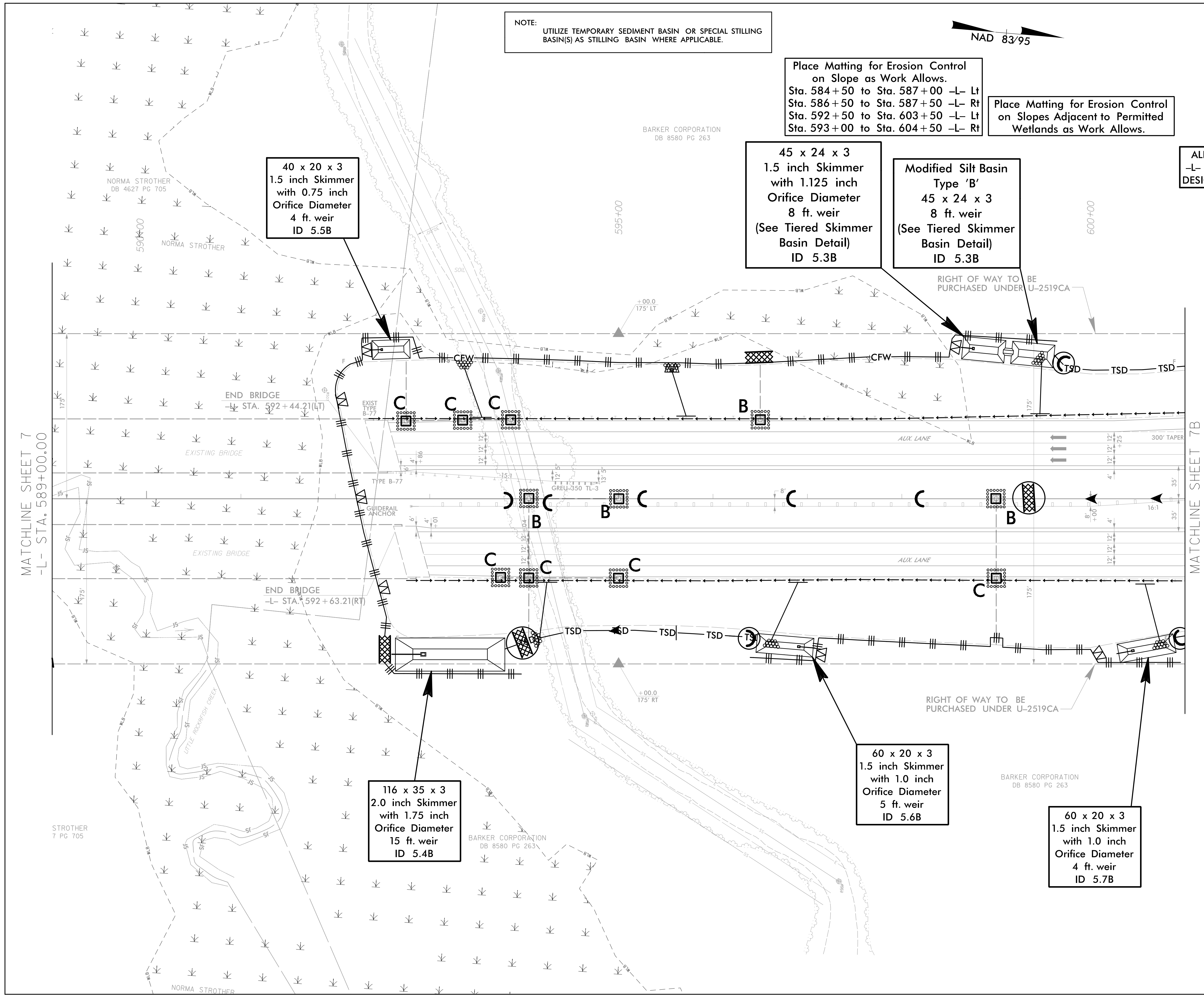
NOTE: UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

NAD 83/95

Place Matting for Erosion Control on Slope as Work Allows.  
 Sta. 584+50 to Sta. 587+00 -L- Lt  
 Sta. 586+50 to Sta. 587+50 -L- Rt  
 Sta. 592+50 to Sta. 603+50 -L- Lt  
 Sta. 593+00 to Sta. 604+50 -L- Rt

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

ALL EROSION CONTROLS MEASURES FROM -L- STA. 585+00 TO -L- STA. 604+39 WERE DESIGNED BY OTHERS AS PART OF U-2519CA.



40 x 20 x 3  
 1.5 inch Skimmer  
 with 0.75 inch  
 Orifice Diameter  
 4 ft. weir  
 ID 5.5B

45 x 24 x 3  
 1.5 inch Skimmer  
 with 1.125 inch  
 Orifice Diameter  
 8 ft. weir  
 (See Tiered Skimmer  
 Basin Detail)  
 ID 5.3B

Modified Silt Basin  
 Type 'B'  
 45 x 24 x 3  
 8 ft. weir  
 (See Tiered Skimmer  
 Basin Detail)  
 ID 5.3B

116 x 35 x 3  
 2.0 inch Skimmer  
 with 1.75 inch  
 Orifice Diameter  
 15 ft. weir  
 ID 5.4B

60 x 20 x 3  
 1.5 inch Skimmer  
 with 1.0 inch  
 Orifice Diameter  
 5 ft. weir  
 ID 5.6B

60 x 20 x 3  
 1.5 inch Skimmer  
 with 1.0 inch  
 Orifice Diameter  
 4 ft. weir  
 ID 5.7B

MATCHLINE SHEET 7  
 -L- STA. 589+00.00

MATCHLINE SHEET 7B  
 -L- STA. 601+00.00

STROTHER  
 7 PG 705

BARKER CORPORATION  
 DB 8580 PG 263

BARKER CORPORATION  
 DB 8580 PG 263

PROJECT REFERENCE NO.	SHEET NO.
U-2519BB	EC-27B/CONST.7B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

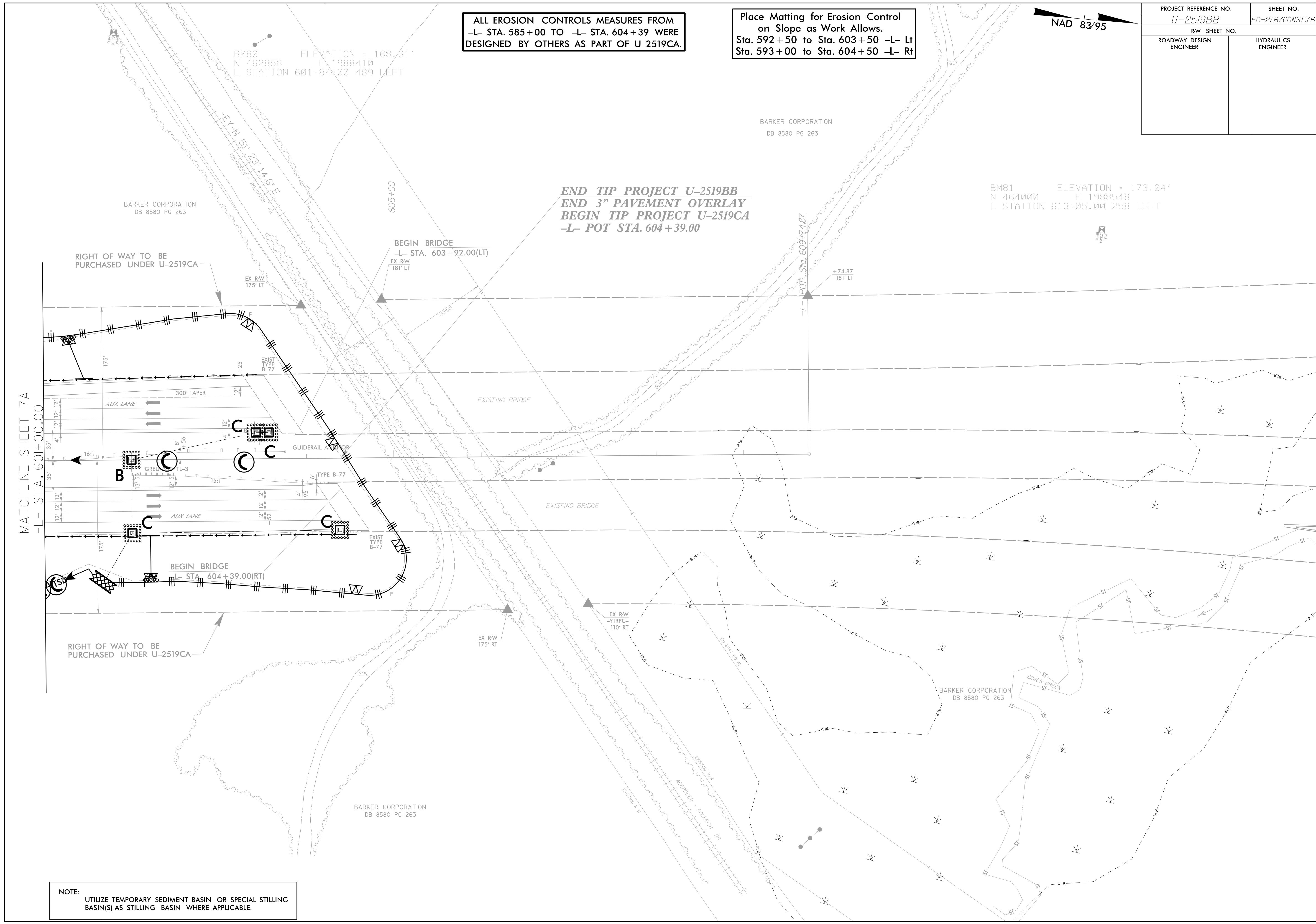
ALL EROSION CONTROLS MEASURES FROM  
-L- STA. 585+00 TO -L- STA. 604+39 WERE  
DESIGNED BY OTHERS AS PART OF U-2519CA.

Place Matting for Erosion Control  
on Slope as Work Allows.  
Sta. 592+50 to Sta. 603+50 -L- Lt  
Sta. 593+00 to Sta. 604+50 -L- Rt

NAD 83/95

BM80 ELEVATION = 168.31'  
N 462856 E 1988410  
L STATION 601+84.00 489 LEFT

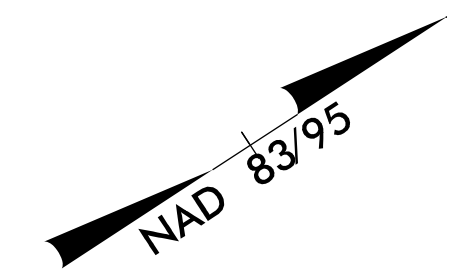
BM81 ELEVATION = 173.04'  
N 464000 E 1988548  
L STATION 613+05.00 258 LEFT



NOTE:  
UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING  
BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

PROJECT REFERENCE NO.	SHEET NO.
U-2519BB	EC-28/CONST.8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-Y17-  
 PIs Sta 15+19.42  
 $\theta_s = 0^\circ 40' 29.8''$   
 $L_s = 90.00'$   
 $LT = 60.00'$   
 $ST = 30.00'$



Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

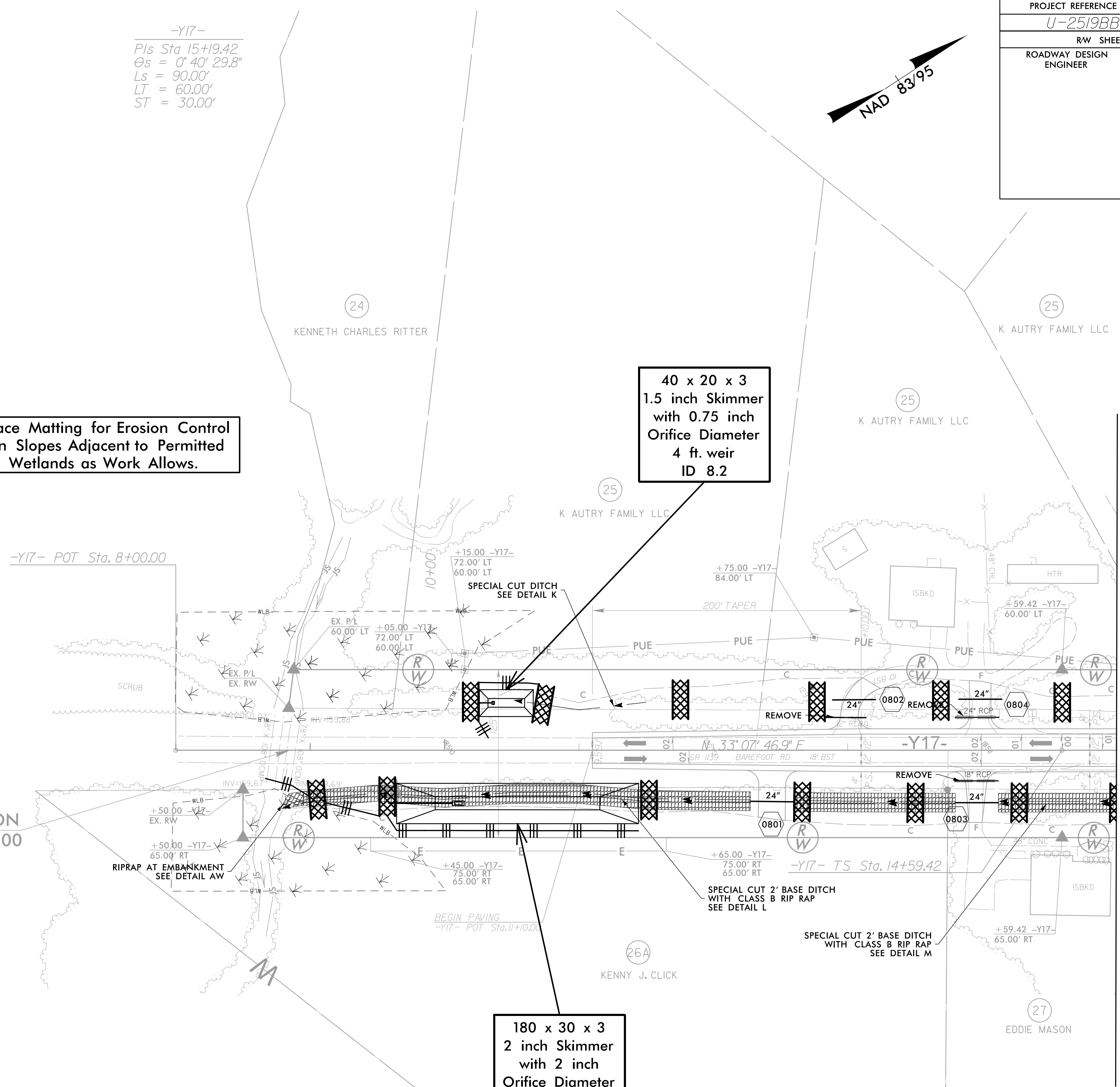
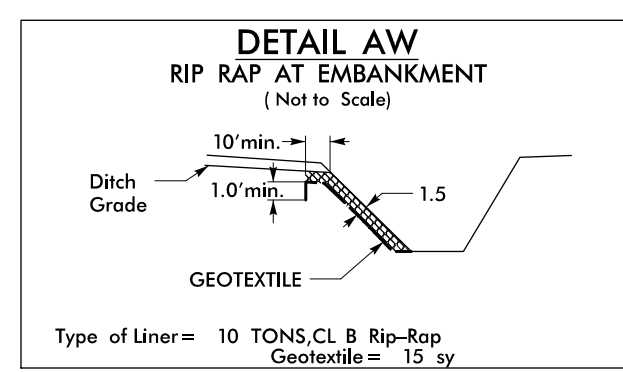
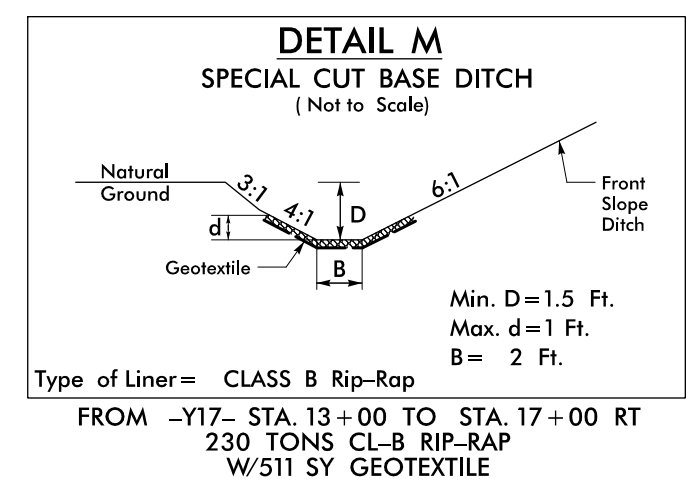
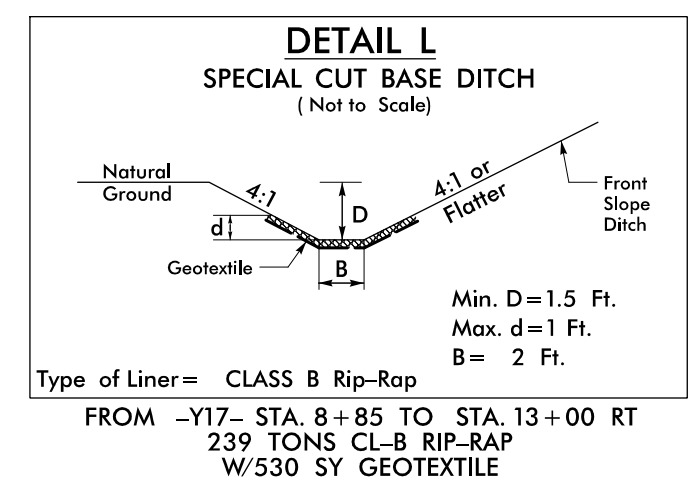
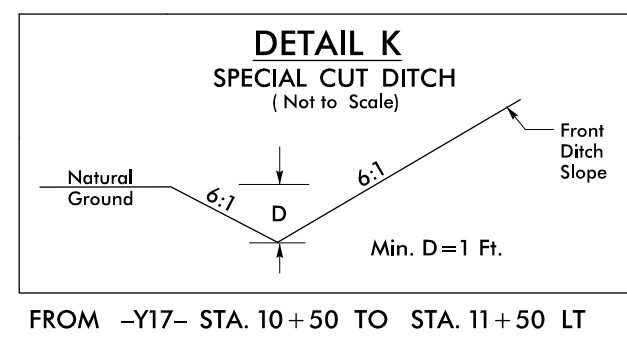
40 x 20 x 3  
 1.5 inch Skimmer  
 with 0.75 inch  
 Orifice Diameter  
 4 ft. weir  
 ID 8.2

180 x 30 x 3  
 2 inch Skimmer  
 with 2 inch  
 Orifice Diameter  
 14 ft. weir  
 ID 8.1

BEGIN CONSTRUCTION  
 -Y17- POT Sta. 8+85.00

BEGIN PAVING  
 -Y17- POT Sta. 11+10.00

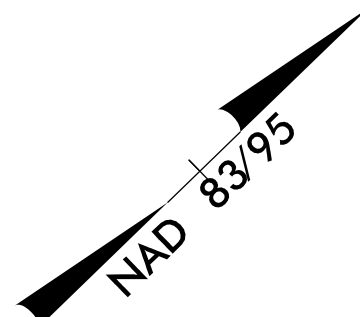
MATCHLINE SHEET 9  
 -Y17- STA. 15+00.00



PROJECT REFERENCE NO.	SHEET NO.
U-2519BB	EC-29/CONST.9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-Y17-

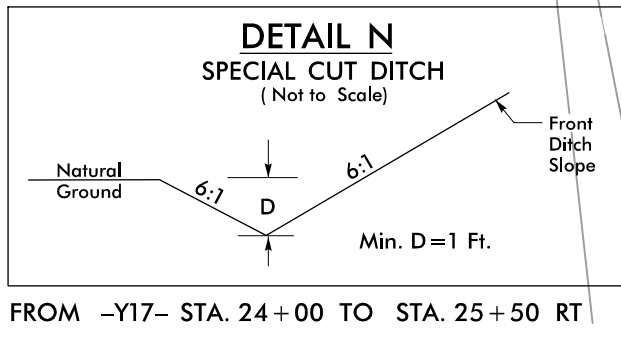
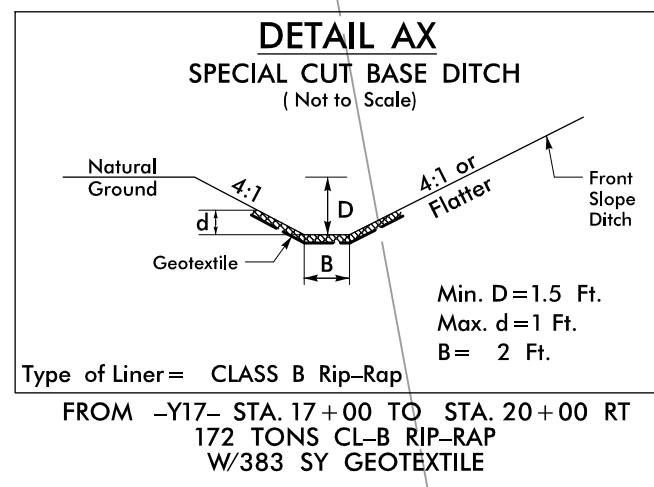
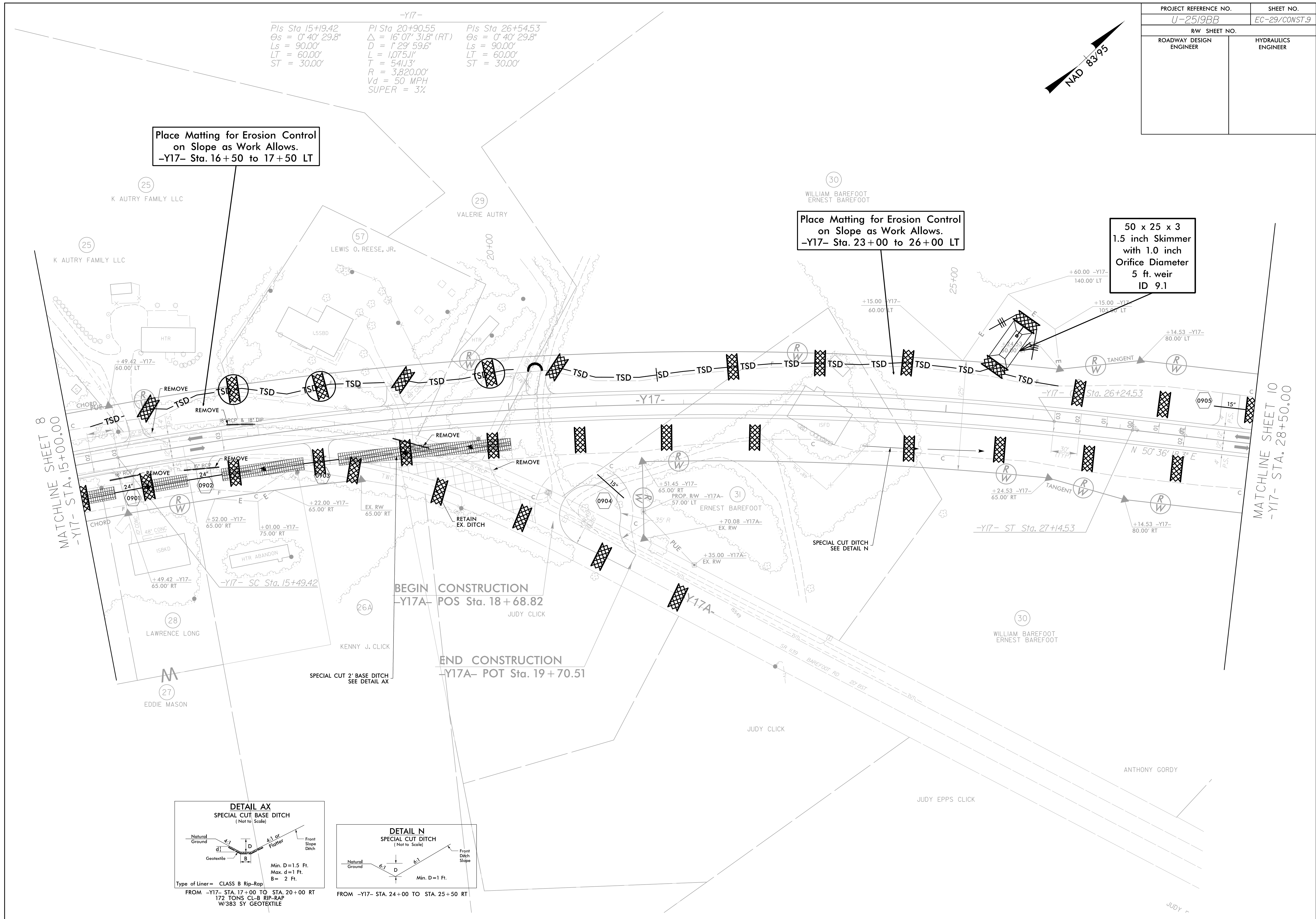
PIs Sta 15+19.42 θs = 0° 40' 29.8" Ls = 90.00' LT = 60.00' ST = 30.00'	PI Sta 20+90.55 Δ = 16° 07' 31.8" (RT) D = 129° 59.6" L = 1,075.11' T = 541.3' R = 3,820.00' Vd = 50 MPH SUPER = 3%	PIs Sta 26+54.53 θs = 0° 40' 29.8" Ls = 90.00' LT = 60.00' ST = 30.00'
--	--	--



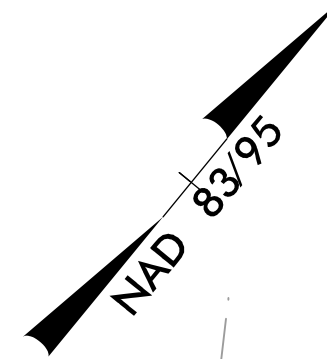
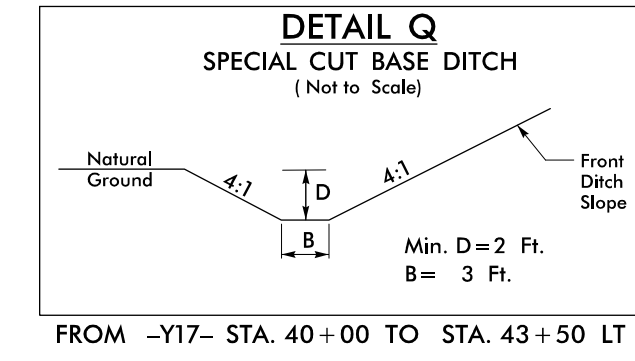
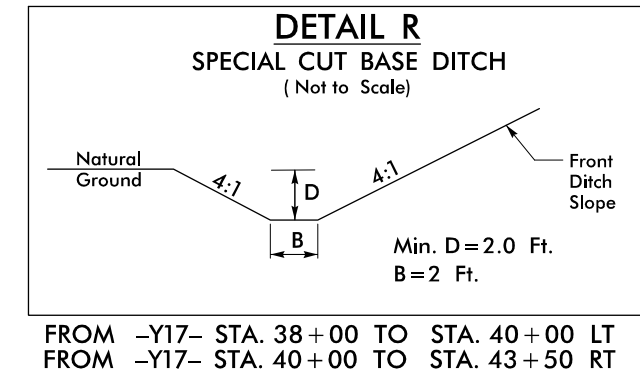
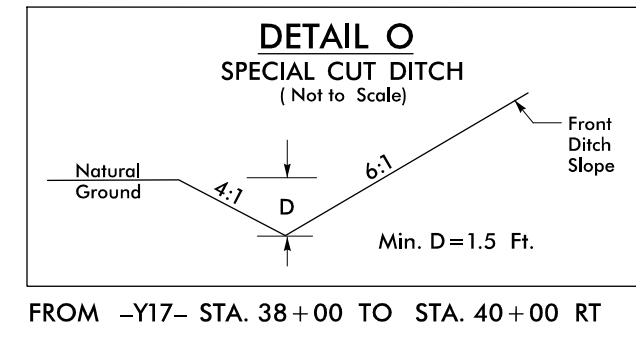
Place Matting for Erosion Control  
on Slope as Work Allows.  
-Y17- Sta. 16+50 to 17+50 LT

Place Matting for Erosion Control  
on Slope as Work Allows.  
-Y17- Sta. 23+00 to 26+00 LT

50 x 25 x 3  
1.5 inch Skimmer  
with 1.0 inch  
Orifice Diameter  
5 ft. weir  
ID 9.1

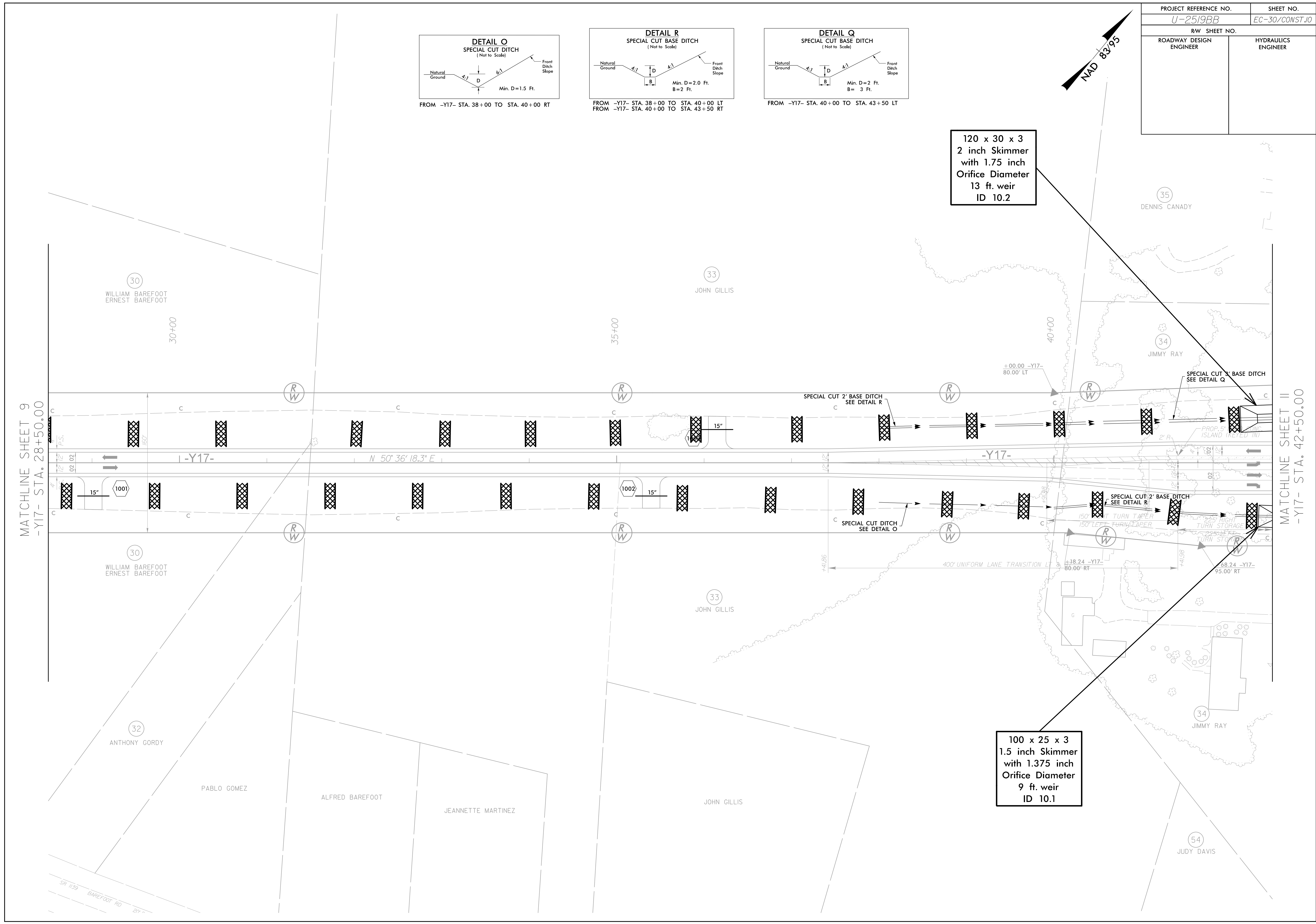


PROJECT REFERENCE NO.	SHEET NO.
U-2519BB	EC-30/CONST.10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCHLINE SHEET 9  
-Y17- STA. 28+50.00

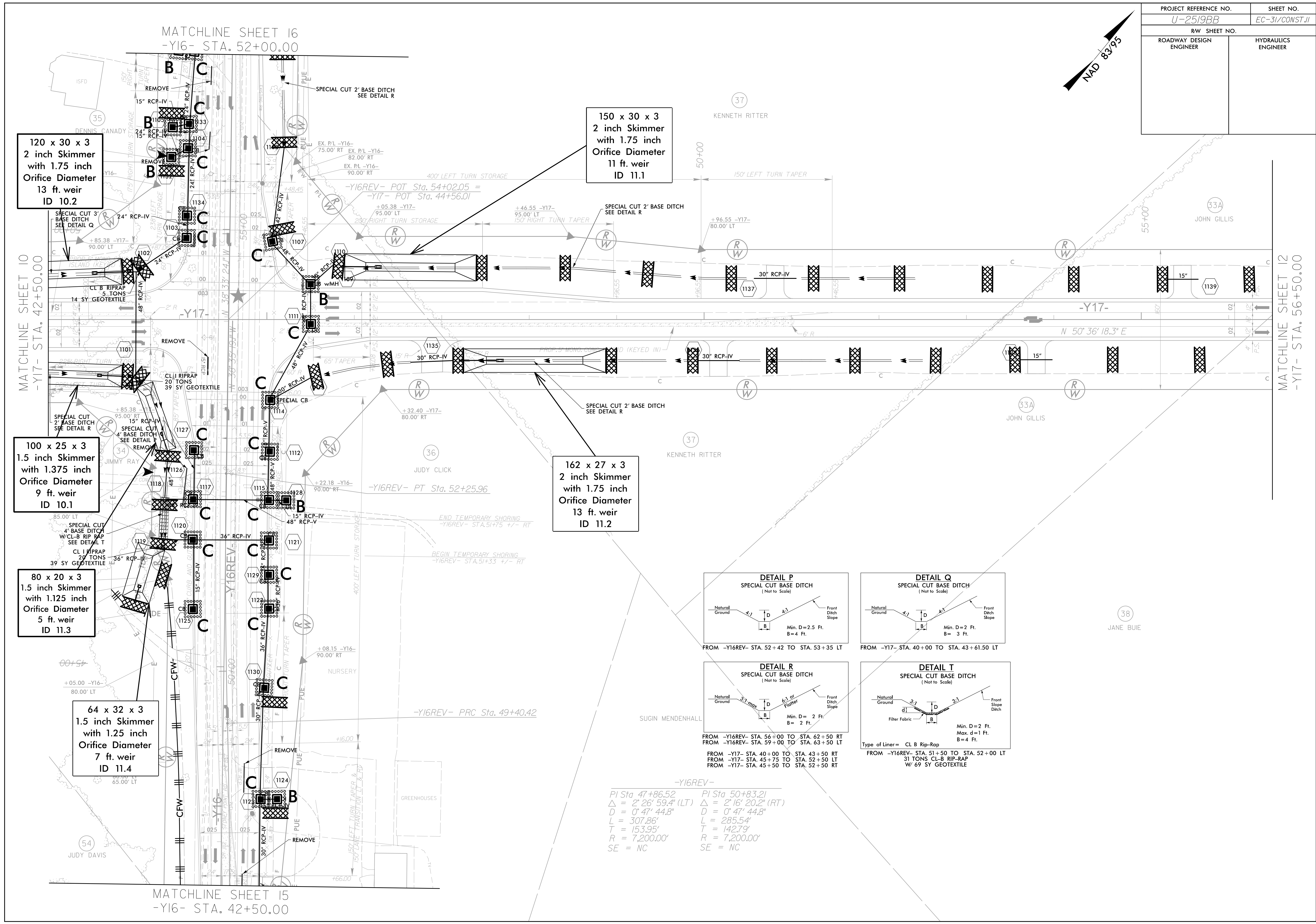
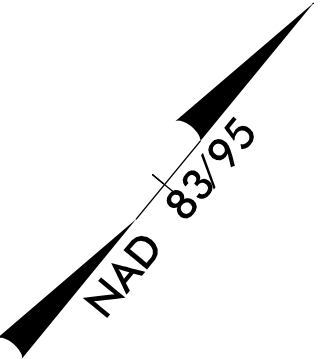
MATCHLINE SHEET 11  
-Y17- STA. 42+50.00



120 x 30 x 3  
2 inch Skimmer  
with 1.75 inch  
Orifice Diameter  
13 ft. weir  
ID 10.2

100 x 25 x 3  
1.5 inch Skimmer  
with 1.375 inch  
Orifice Diameter  
9 ft. weir  
ID 10.1

PROJECT REFERENCE NO.	SHEET NO.
U-2519BB	EC-31/CONST/II
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



120 x 30 x 3  
2 inch Skimmer  
with 1.75 inch  
Orifice Diameter  
13 ft. weir  
ID 10.2

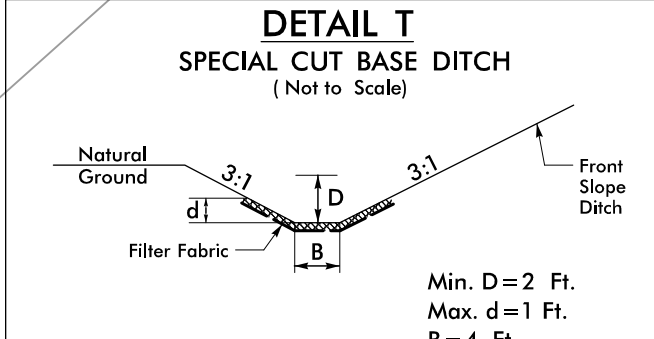
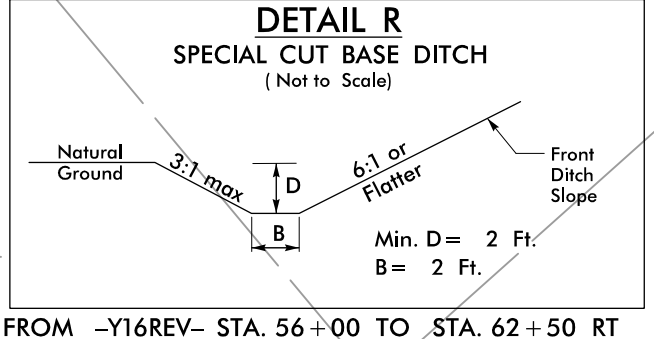
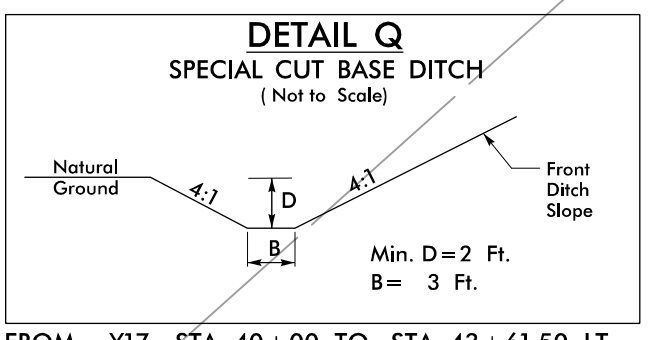
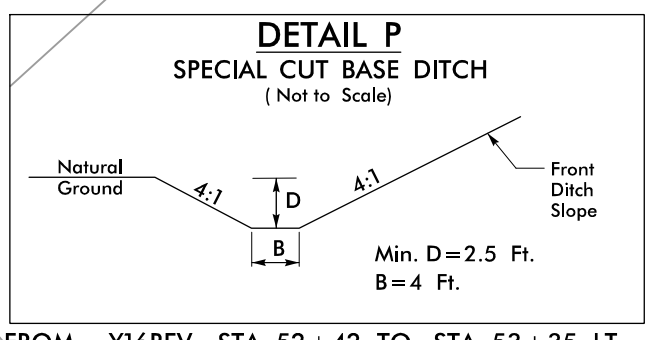
150 x 30 x 3  
2 inch Skimmer  
with 1.75 inch  
Orifice Diameter  
11 ft. weir  
ID 11.1

100 x 25 x 3  
1.5 inch Skimmer  
with 1.375 inch  
Orifice Diameter  
9 ft. weir  
ID 10.1

162 x 27 x 3  
2 inch Skimmer  
with 1.75 inch  
Orifice Diameter  
13 ft. weir  
ID 11.2

80 x 20 x 3  
1.5 inch Skimmer  
with 1.125 inch  
Orifice Diameter  
5 ft. weir  
ID 11.3

64 x 32 x 3  
1.5 inch Skimmer  
with 1.25 inch  
Orifice Diameter  
7 ft. weir  
ID 11.4



-Y16REV-  
PI Sta 47+86.52 PI Sta 50+83.21  
Δ = 2' 26" 59.4" (LT) Δ = 2' 16" 20.2" (RT)  
D = 0' 47" 44.8" D = 0' 47" 44.8"  
L = 307.86' L = 285.54'  
T = 153.95' T = 142.79'  
R = 7,200.00' R = 7,200.00'  
SE = NC SE = NC

MATCHLINE SHEET 16  
-Y16- STA. 52+00.00

MATCHLINE SHEET 10  
-Y17- STA. 42+50.00

MATCHLINE SHEET 15  
-Y16- STA. 42+50.00

MATCHLINE SHEET 12  
-Y17- STA. 56+50.00



PROJECT REFERENCE NO.	SHEET NO.
U-2519BB	EC-32/CONST.12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Place Matting for Erosion Control on Slope as Work Allows.  
 -Y17- Sta. 63+00 to 64+50 RT  
 -Y17- Sta. 65+50 to 72+00 LT

50 x 25 x 3  
 1.5 inch Skimmer  
 with 1 inch  
 Orifice Diameter  
 4 ft. weir  
 ID 12.1

60 x 20 x 3  
 1.5 inch Skimmer  
 with 1.25 inch  
 Orifice Diameter  
 8 ft. weir  
 (See Tiered Skimmer  
 Basin Detail)  
 ID 12.2

Modified Silt Basin  
 Type 'B'  
 60 x 20 x 3  
 8 ft. weir  
 (See Tiered Skimmer  
 Basin Detail)  
 ID 12.2

44 x 22 x 3  
 1.5 inch Skimmer  
 with 0.875 inch  
 Orifice Diameter  
 4 ft. weir  
 ID 12.4

60 x 12 x 3  
 1.5 inch Skimmer  
 with 0.625 inch  
 Orifice Diameter  
 4 ft. weir  
 ID 12.3

90 x 15 x 3  
 1.5 inch Skimmer  
 with 1 inch  
 Orifice Diameter  
 4 ft. weir  
 ID 12.5

44 x 22 x 3  
 1.5 inch Skimmer  
 with 0.875 inch  
 Orifice Diameter  
 4 ft. weir  
 ID 12.8

100 x 20 x 3  
 1.5 inch Skimmer  
 with 1.25 inch  
 Orifice Diameter  
 7 ft. weir  
 ID 12.7

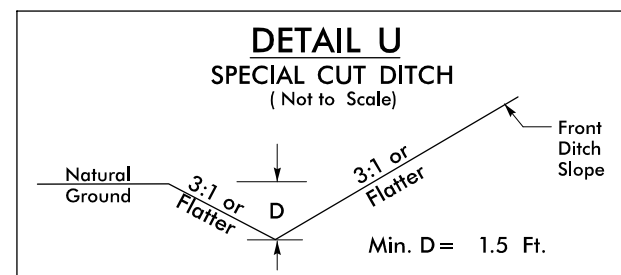
80 x 20 x 3  
 1.5 inch Skimmer  
 with 1.125 inch  
 Orifice Diameter  
 6 ft. weir  
 ID 12.6

MATCHLINE SHEET II  
 -Y17- STA. 56+50.00

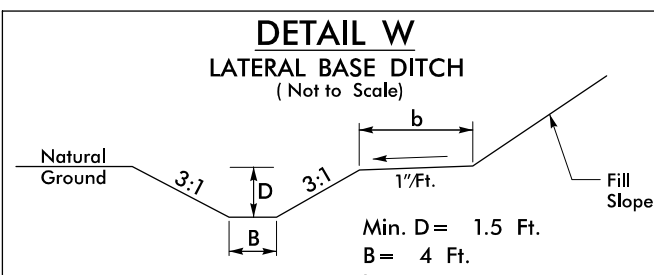
MATCHLINE SHEET 5  
 -Y17- STA. 70+50.00

-DR2-

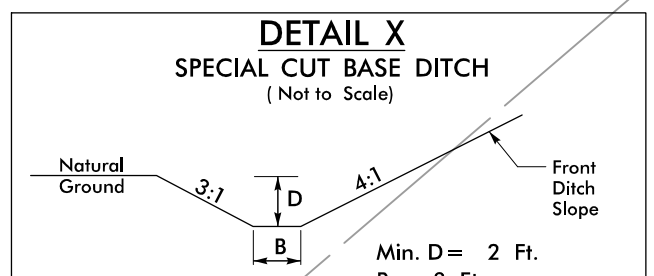
PI Sta 10+13.87	PI Sta 11+27.40
$\Delta = 49^\circ 51' 52.3" (LT)$	$\Delta = 41^\circ 07' 02.9" (RT)$
$D = 286' 28" 44.0"$	$D = 76' 23" 39.7"$
$L = 17.4'$	$L = 53.82'$
$T = 9.30'$	$T = 28.13'$
$R = 20.00'$	$R = 75.00'$
SE = NC	SE = NC



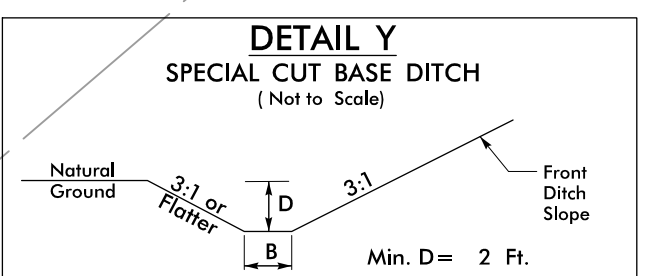
FROM -Y17- STA. 59+00 TO STA. 65+18 LT  
 FROM -Y17- STA. 59+00 TO STA. 61+00 RT  
 FROM -Y17- STA. 65+00 TO STA. 66+38 RT  
 FROM -Y17- STA. 66+38 TO STA. 68+63 RT  
 FROM -Y17- STA. 69+00 TO STA. 69+63 RT  
 FROM -Y17- STA. 69+63 TO STA. 71+50 RT



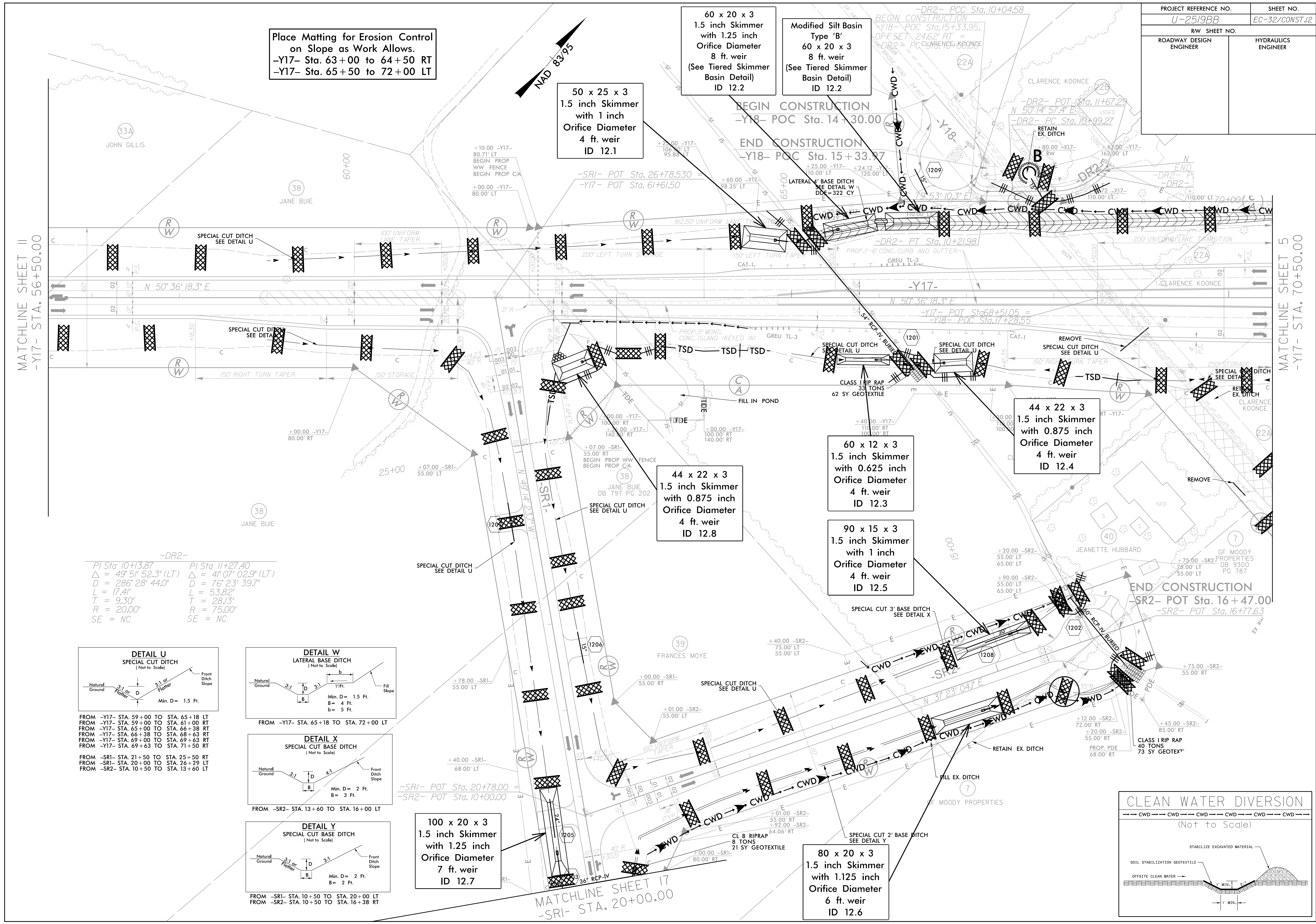
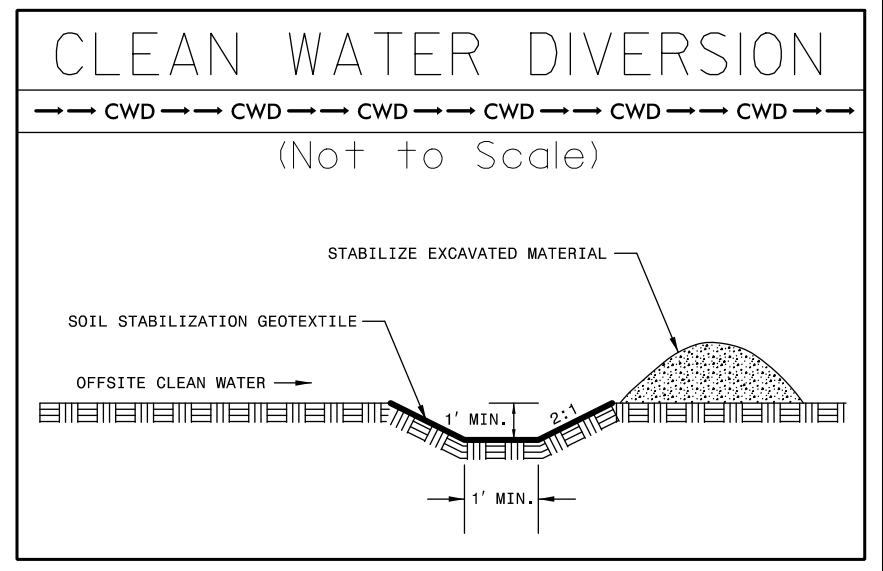
FROM -Y17- STA. 65+18 TO STA. 72+00 LT



FROM -SR2- STA. 13+60 TO STA. 16+00 LT



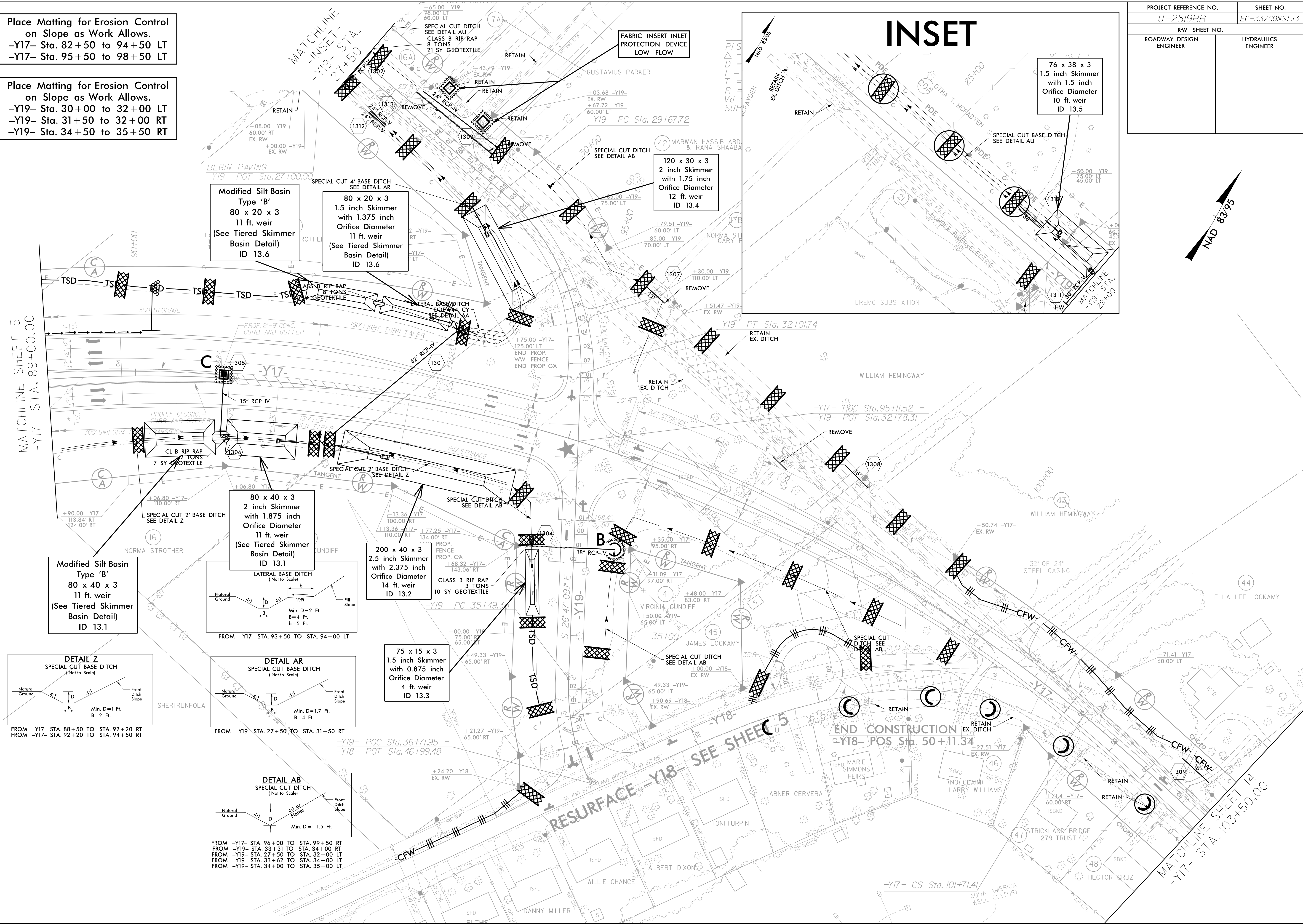
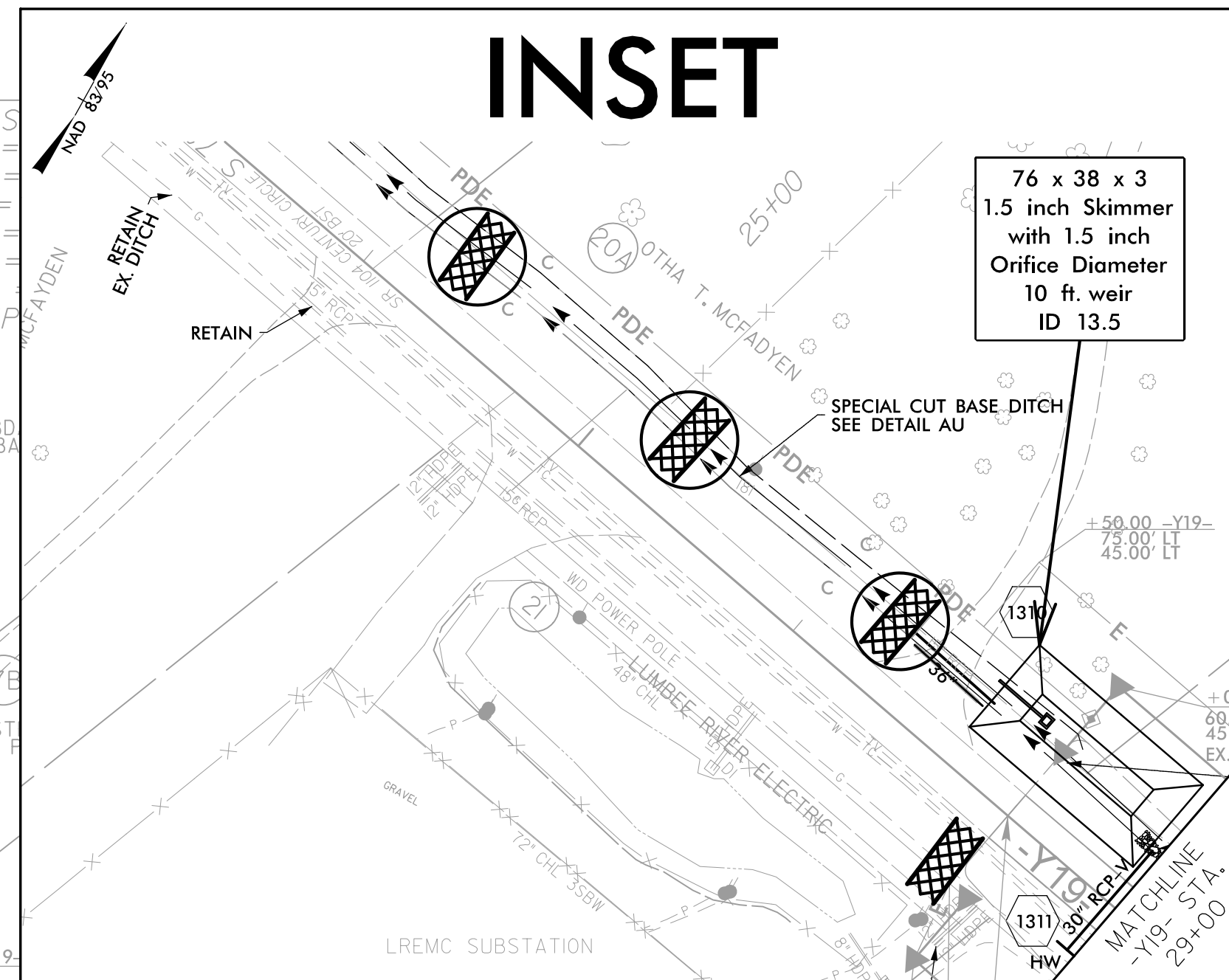
FROM -SR1- STA. 10+50 TO STA. 20+00 LT  
 FROM -SR2- STA. 10+50 TO STA. 16+38 RT



Place Matting for Erosion Control on Slope as Work Allows.  
 -Y17- Sta. 82+50 to 94+50 LT  
 -Y17- Sta. 95+50 to 98+50 LT

Place Matting for Erosion Control on Slope as Work Allows.  
 -Y19- Sta. 30+00 to 32+00 LT  
 -Y19- Sta. 31+50 to 32+00 RT  
 -Y19- Sta. 34+50 to 35+50 RT

PROJECT REFERENCE NO.	SHEET NO.
U-2519BB	EC-33/CONST.13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



Modified Silt Basin Type 'B'  
 80 x 20 x 3  
 1.5 inch Skimmer  
 11 ft. weir  
 (See Tiered Skimmer Basin Detail)  
 ID 13.6

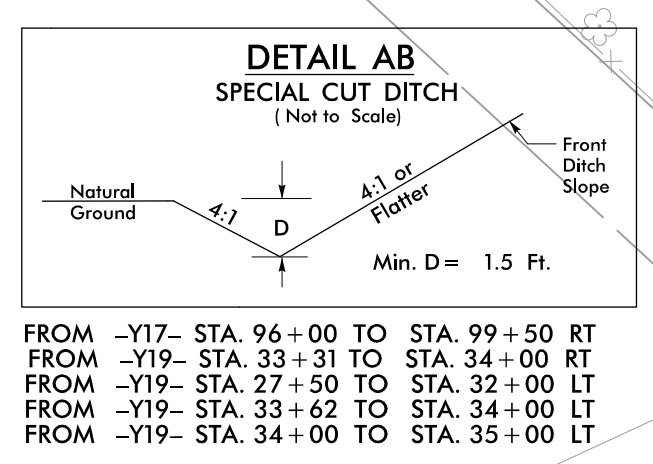
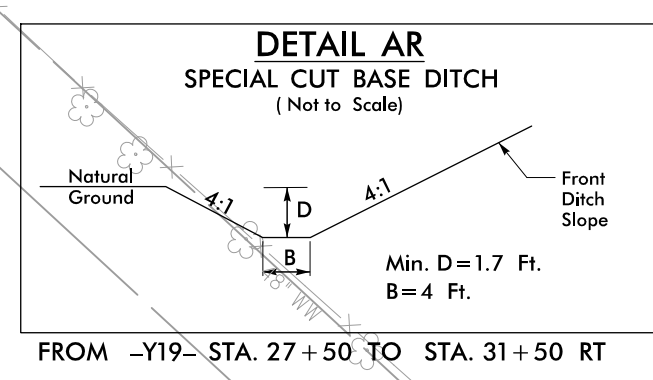
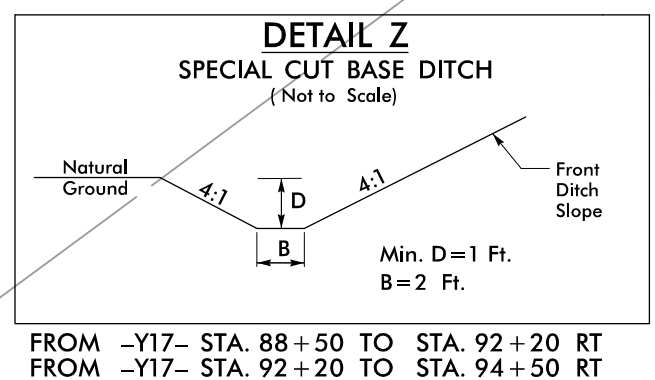
80 x 20 x 3  
 1.5 inch Skimmer  
 with 1.375 inch Orifice Diameter  
 11 ft. weir  
 (See Tiered Skimmer Basin Detail)  
 ID 13.6

120 x 30 x 3  
 2 inch Skimmer  
 with 1.75 inch Orifice Diameter  
 12 ft. weir  
 ID 13.4

80 x 40 x 3  
 2 inch Skimmer  
 with 1.875 inch Orifice Diameter  
 11 ft. weir  
 (See Tiered Skimmer Basin Detail)  
 ID 13.1

200 x 40 x 3  
 2.5 inch Skimmer  
 with 2.375 inch Orifice Diameter  
 14 ft. weir  
 ID 13.2

75 x 15 x 3  
 1.5 inch Skimmer  
 with 0.875 inch Orifice Diameter  
 4 ft. weir  
 ID 13.3



FROM -Y17- STA. 96+00 TO STA. 99+50 RT  
 FROM -Y19- STA. 33+31 TO STA. 34+00 RT  
 FROM -Y19- STA. 27+50 TO STA. 32+00 LT  
 FROM -Y19- STA. 33+62 TO STA. 34+00 LT  
 FROM -Y19- STA. 34+00 TO STA. 35+00 LT