

5/14/99

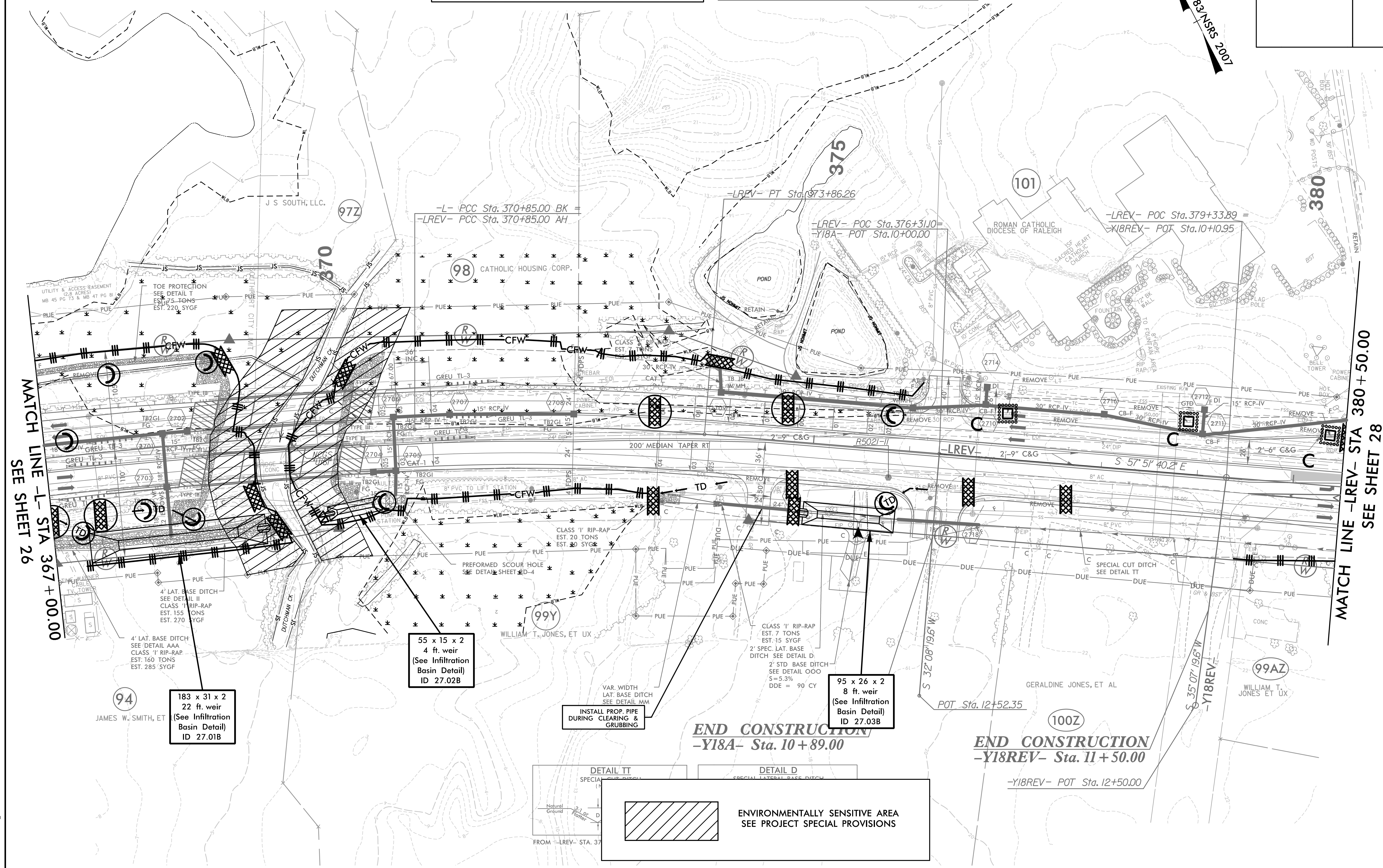
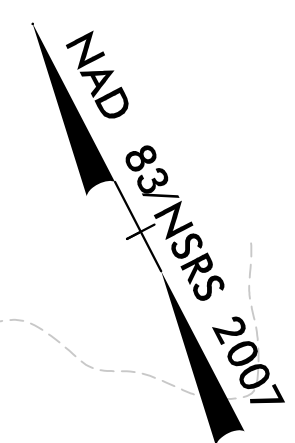
PROJECT REFERENCE NO.	SHEET NO.
R-5021	EC-27/CONST.27
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE:
 UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS / JURISDICTIONAL AREAS, AND AS DIRECTED

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 27

NOTE:
 UTILIZE SPECIAL STILLING BASIN(S) AND / OR INFILTRATION BASINS AS STILLING BASINS WHERE APPLICABLE.

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



MATCH LINE - L- STA 367 + 00.00
SEE SHEET 26

MATCH LINE - LREV- STA 380 + 50.00
SEE SHEET 28

DETAIL TT
 SPECIAL LATERAL BASE DITCH

DETAIL D
 SPECIAL LATERAL BASE DITCH

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

FROM - LREV- STA. 37

4/21/2021 EC.PSH27.dgn

5/14/99

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 29

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343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

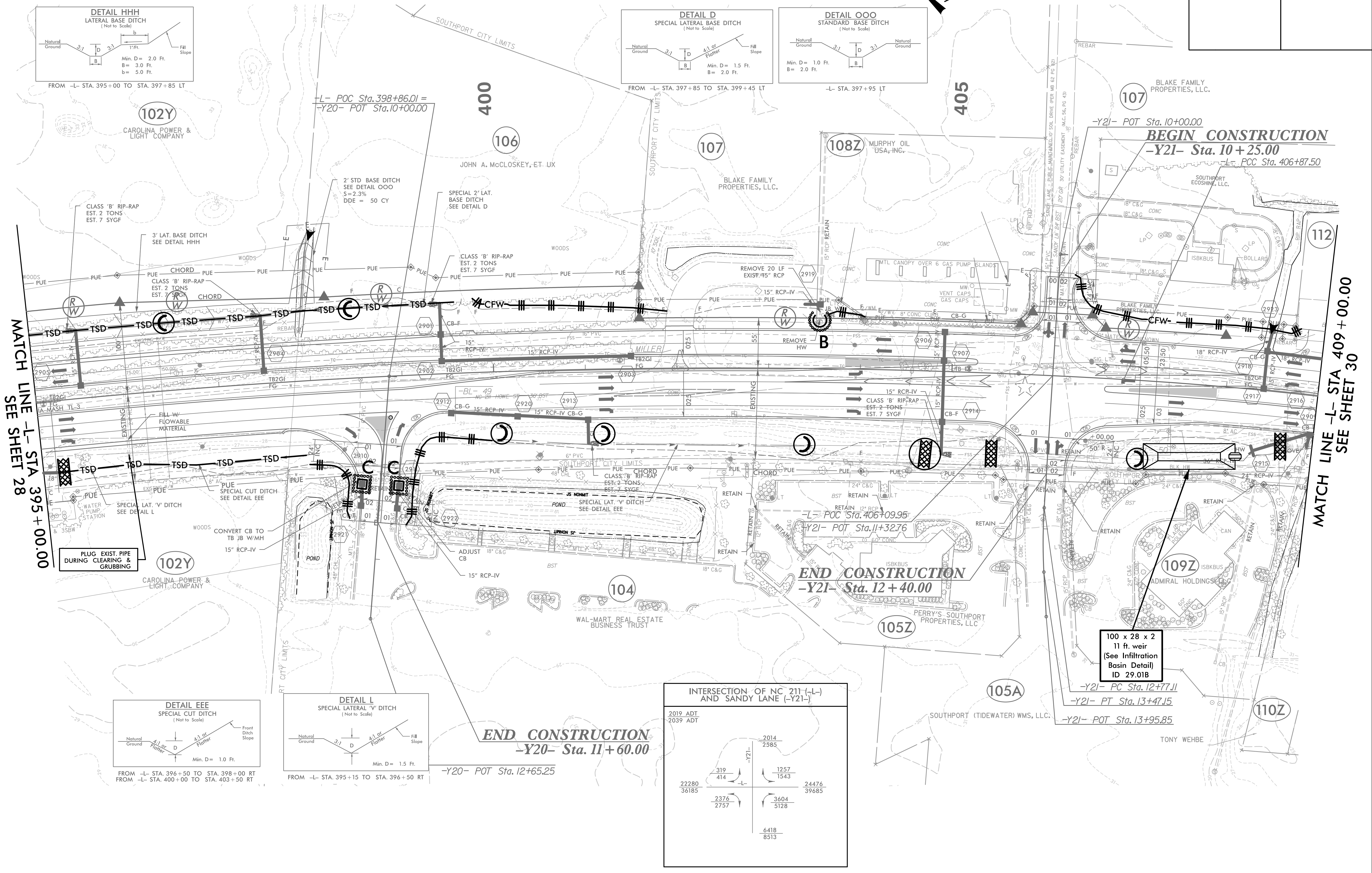
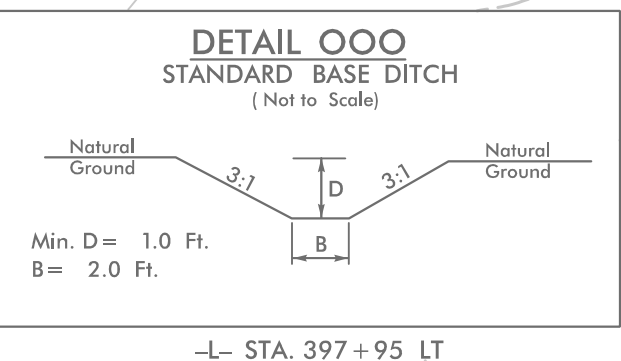
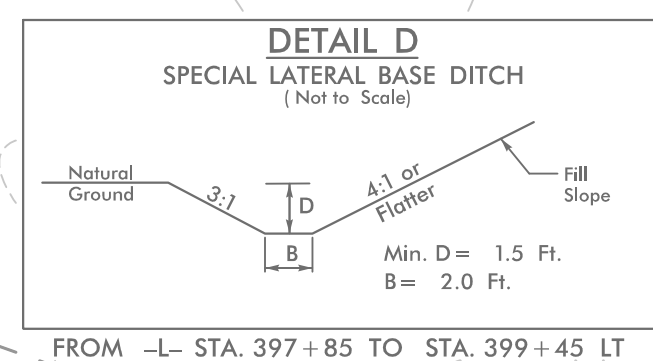
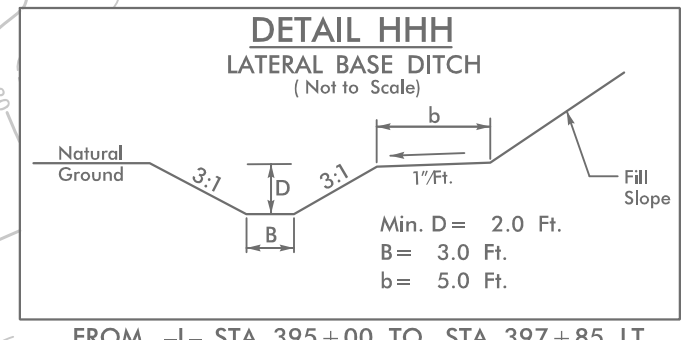
PROJECT REFERENCE NO.	SHEET NO.
R-5021	EC-29/CONST.29
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE: UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS /JURISDICTIONAL AREAS, AND AS DIRECTED

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

NAD 83 NSRS 2007

EXISTING TRAFFIC SIGNAL



5/14/2021_EC_PSH29.dgn

5/14/99

DO NOT DISTURB THE MONUMENT "NCGS K216".

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 31

NAD 83/NRS 2007

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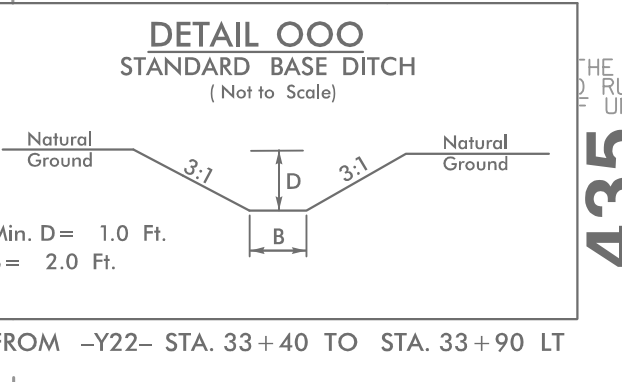
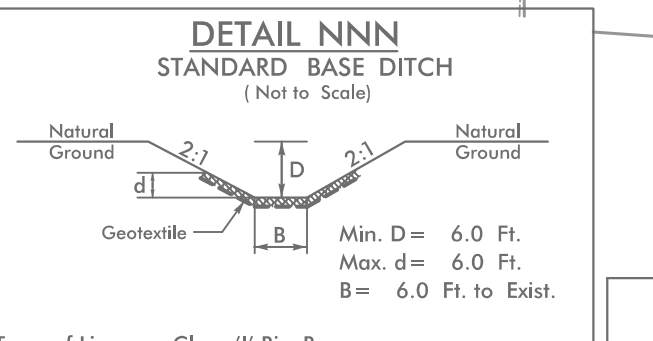
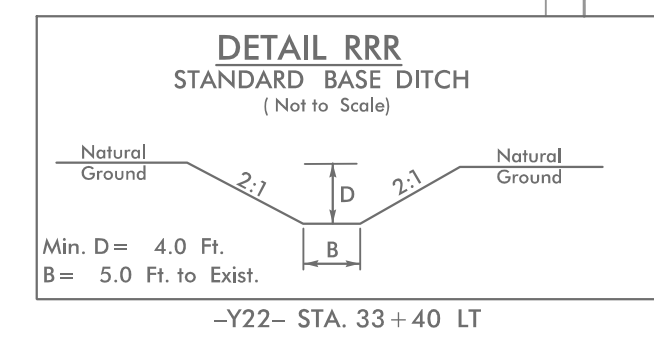
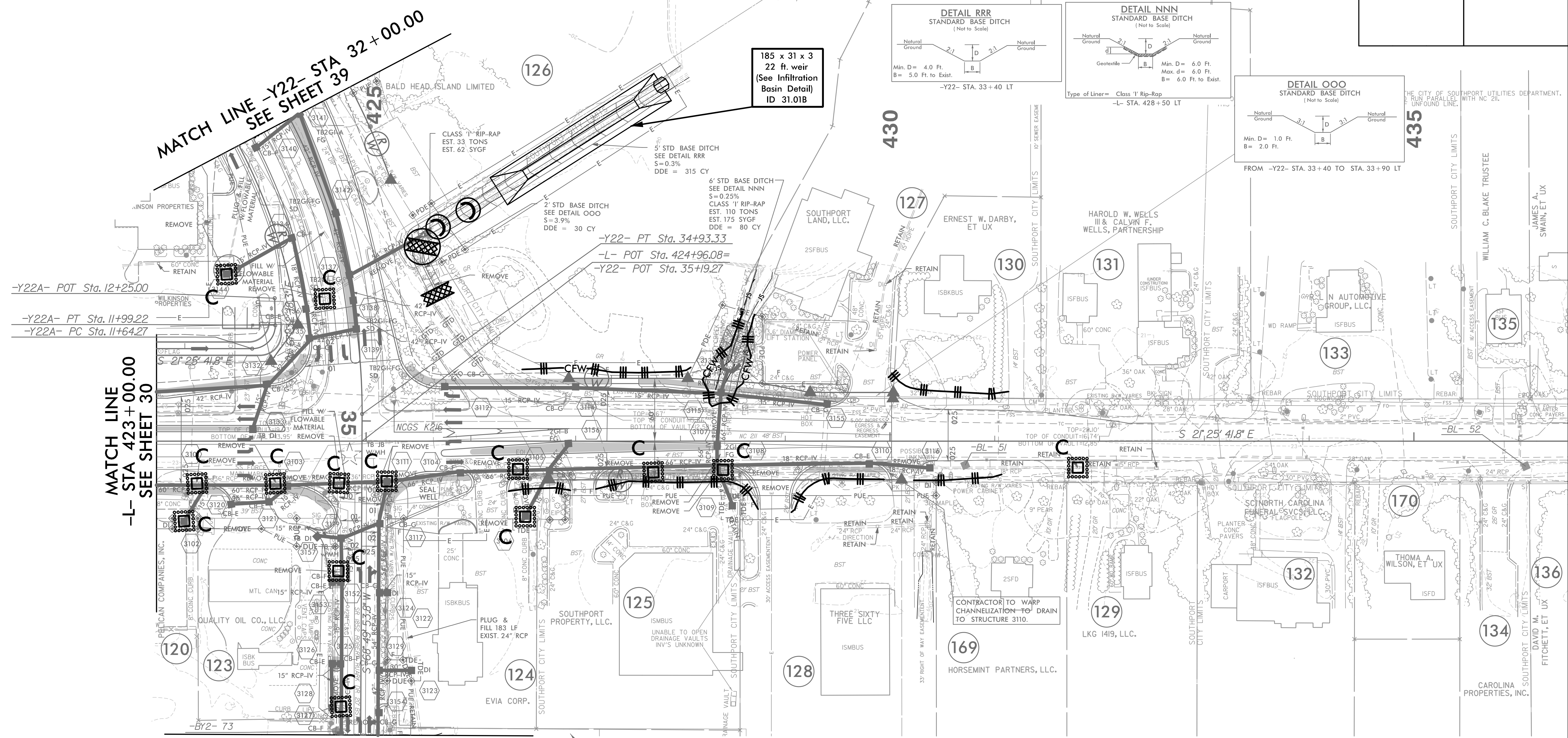
PROJECT REFERENCE NO.	SHEET NO.
R-5021	EC-31/CONST.31
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE: INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED.

NOTE: UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS /JURISDICTIONAL AREAS, AND AS DIRECTED

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

EXISTING TRAFFIC SIGNAL

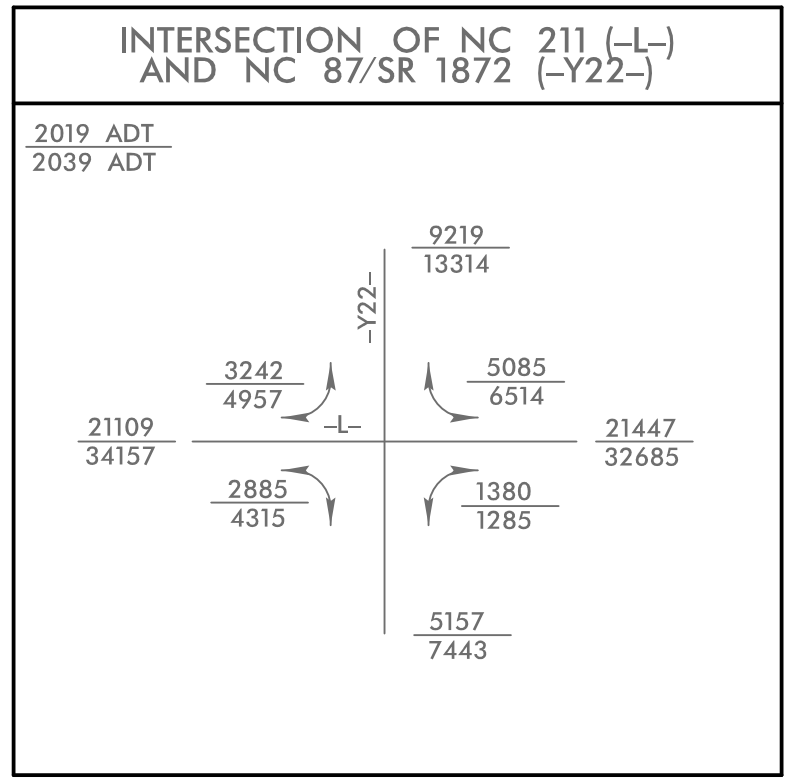


185 x 31 x 3 22 ft weir (See Infiltration Basin Detail) ID 31.01B

-Y22A- POT Sta. 12+25.00
-Y22A- PT Sta. 11+99.22
-Y22A- PC Sta. 11+64.27

MATCH LINE -L- STA 423+00.00 SEE SHEET 30

MATCH LINE -Y22- STA 38+00.00 SEE SHEET 40

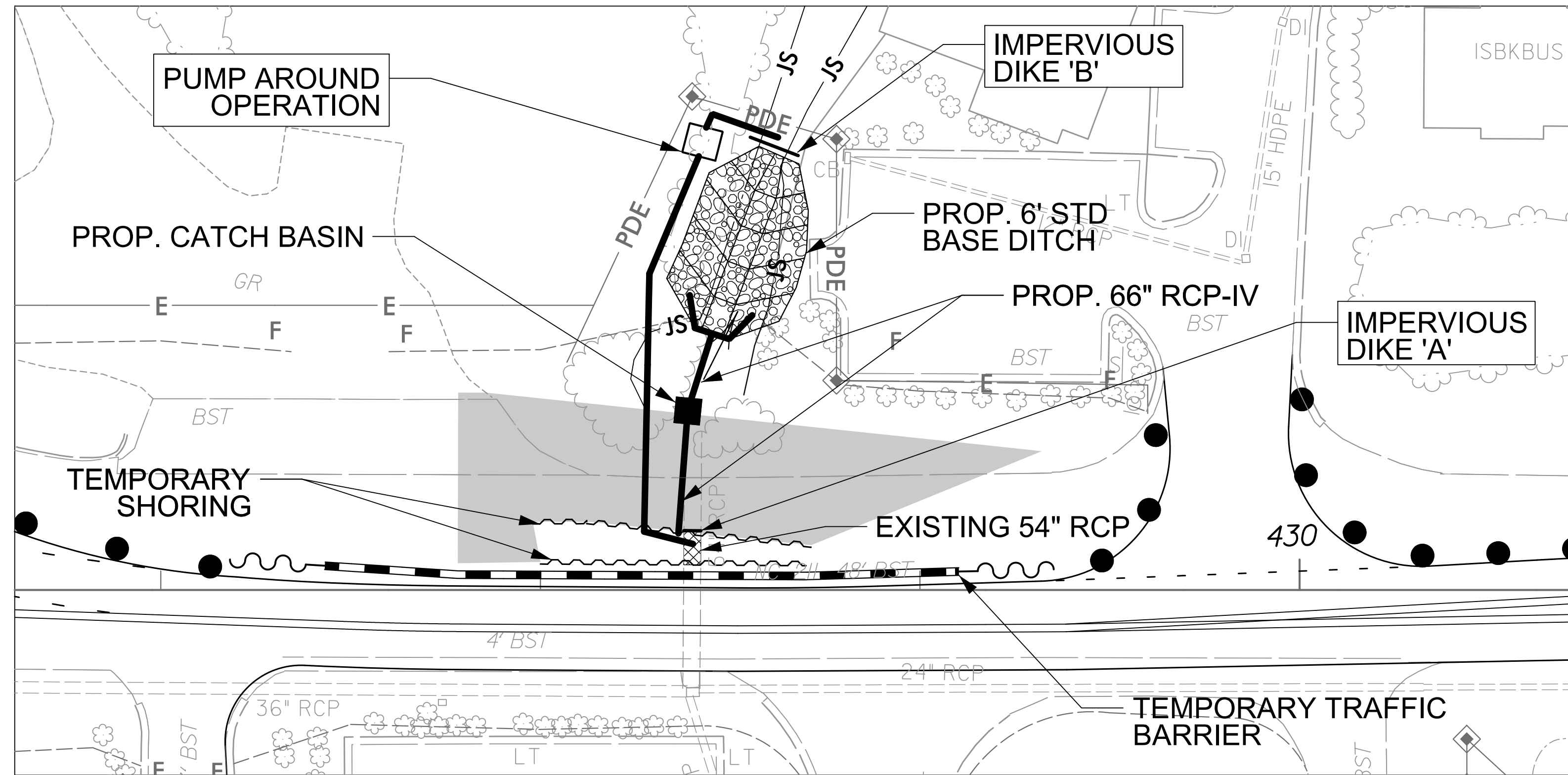


SMITHVILLE CROSSING, LLC. DB 2503 PG 425 MB 13 PG 7 MB 36 PG 107 MB 22 PG 75 MB U PG 346

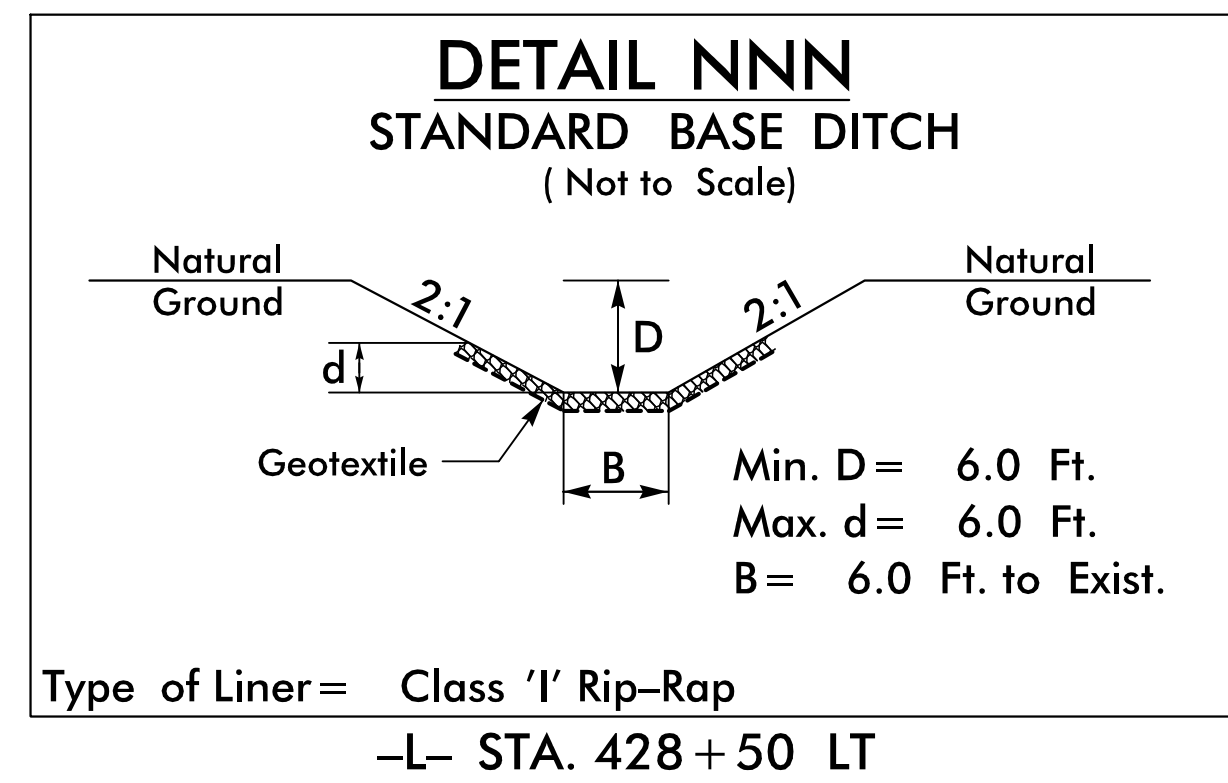
5/17/2021 EC_PSH31.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-5021	EC-31A/CONST.31
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

R-5021 PIPE PHASING 5 OF 6
 NC 211 OVER UT TO PRICE CREEK
 BRUNSWICK COUNTY
 -L- 428+35



- PHASE I**
1. UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED DURING PIPE INSTALLATION.
 2. INSTALL TRAFFIC BARRIER AND TEMPORARY SHORING AND SHIFT TRAFFIC TO RIGHT OF -L-.
 3. REMOVE EXISTING 54" RCP BETWEEN SHORING AND INSTALL IMPERVIOUS DIKES 'A', 'B' AND PUMP AROUND OPERATION.
 4. DEWATER CONSTRUCTION AREA INTO SPECIAL STILLING BASIN(S).
 5. CONSTRUCT PROPOSED 66" RCP-IV, HEADWALLS, 6' STD BASE DITCH AND CATCH BASIN.
 6. REMOVE IMPERVIOUS DIKES 'A', 'B', PUMP AROUND OPERATION AND ANY REMAINING SPECIAL STILLING BASIN(S).
 7. REMOVE TRAFFIC BARRIER AND TEMPORARY SHORING.
 8. CONSTRUCT WIDENING LEFT OF -L- AND COMPLETE ROADWAY.



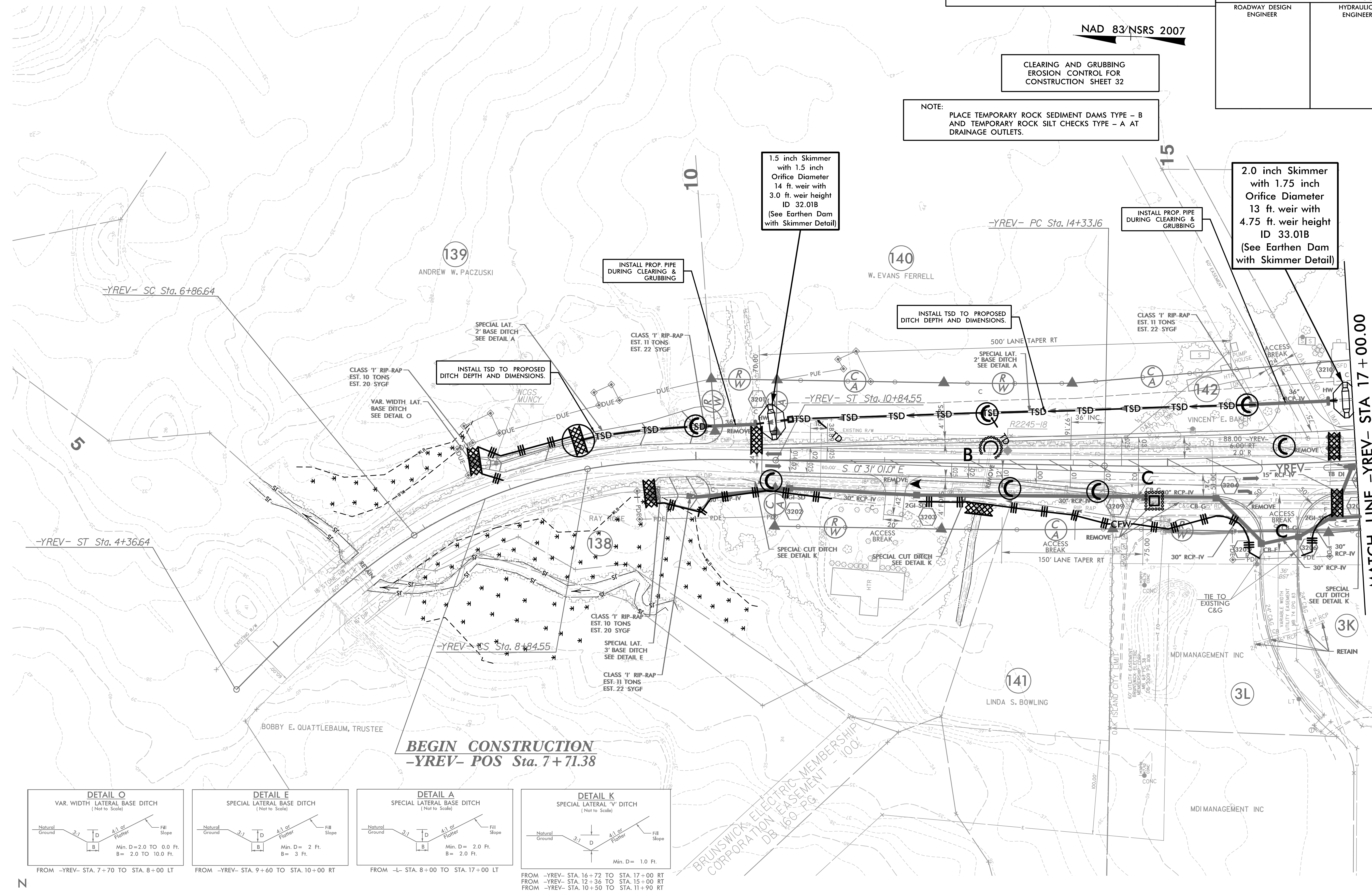
5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-5021	EC-32/CONST.32
RW SHEET NO.	33
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

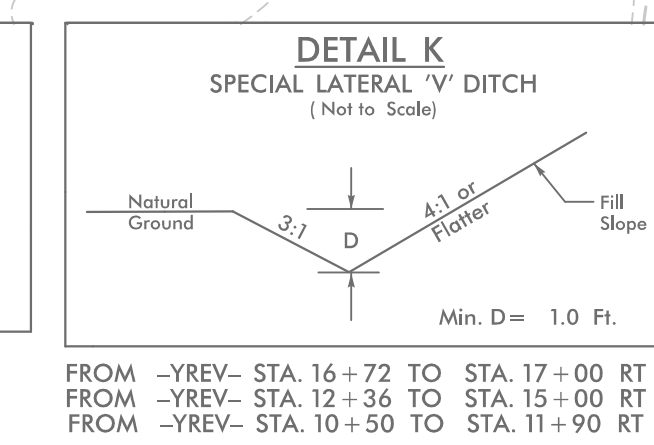
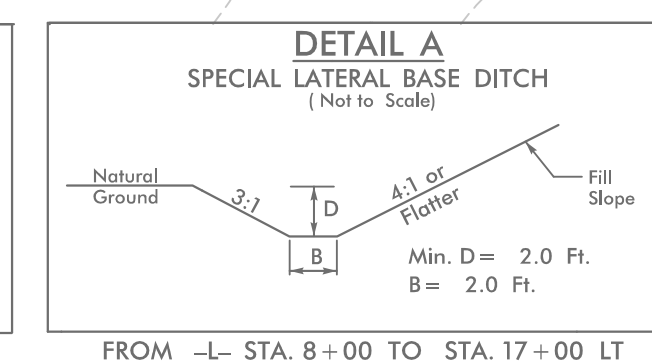
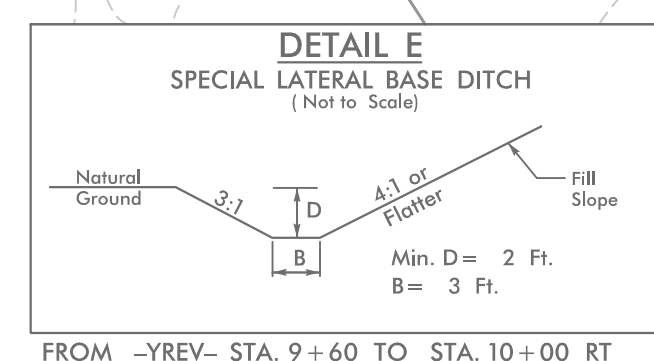
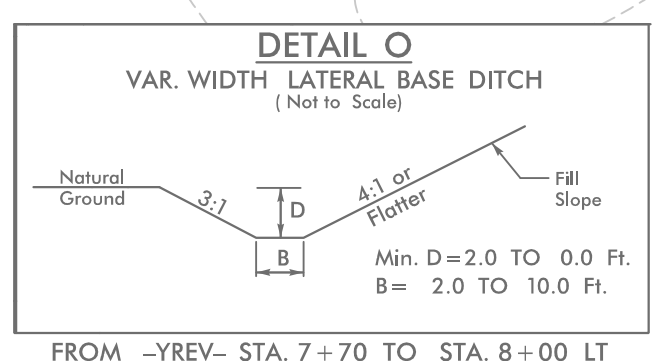
NAD 83/NSRS 2007

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 32

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



MATCH LINE -YREV- STA 17+00.00
SEE SHEET 33



1. ALL DRIVEWAY RADII ARE 20' UNLESS NOTED ON PLANS.
2. PAVED TURNOUTS FOR SHOULDER SECTION SHOULD EXTEND 50' UNLESS NOTED ON PLANS.

5/14/2021_EC_PSH32.dgn

UTILITY EASEMENT
1-100-RT

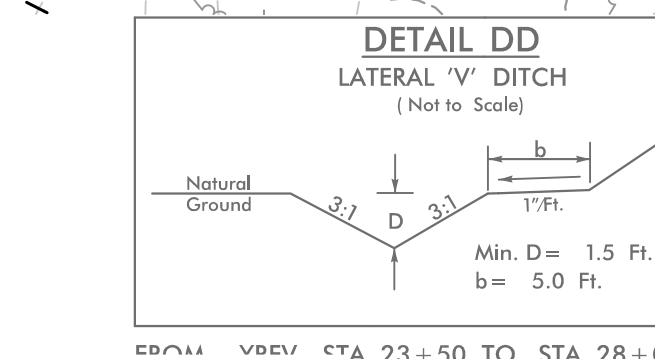
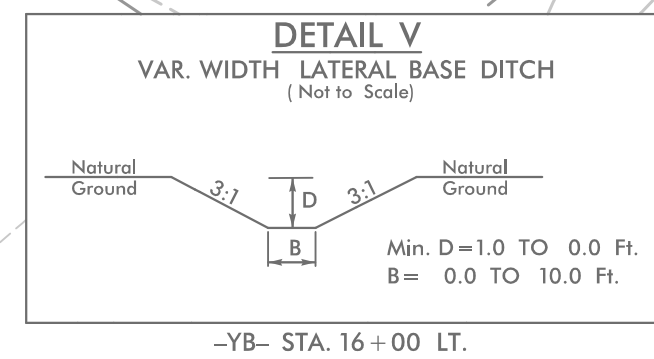
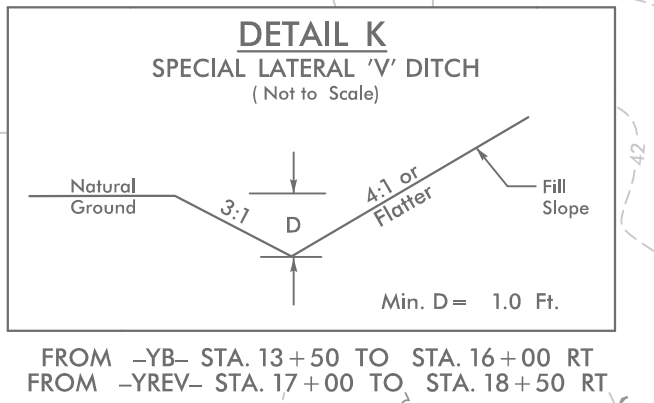
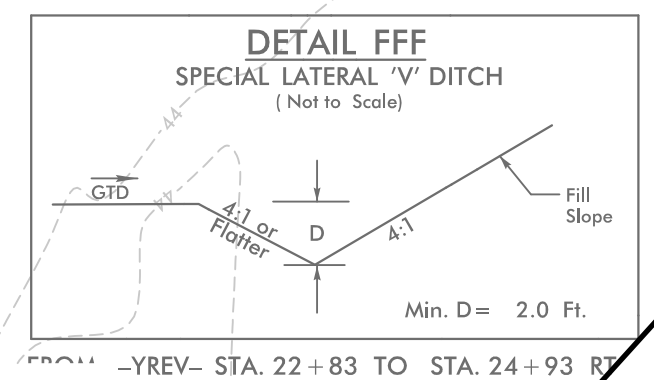
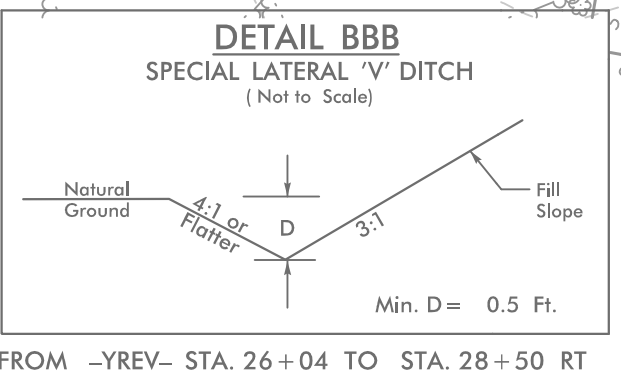
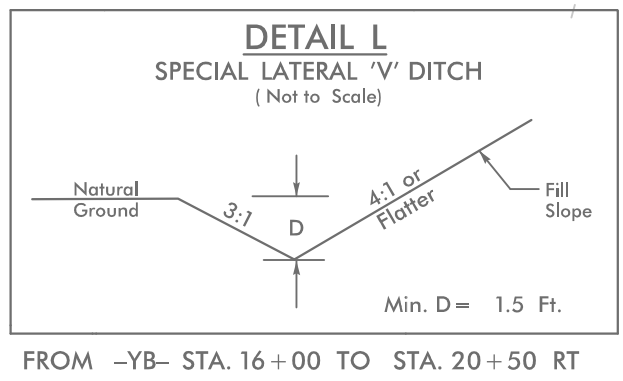
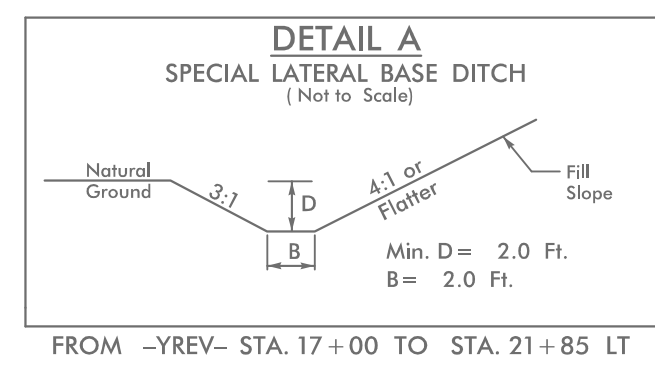
5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-5021	EC-33/CONST.33
RW SHEET NO.	34
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 33

NOTE: UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS /JURISDICTIONAL AREAS, AND AS DIRECTED

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



**60 x 22 x 2
4 ft. weir
(See Infiltration
Basin Detail)
ID 33.05B**

**83 x 12 x 2
4 ft. weir
(See Infiltration
Basin Detail)
ID 33.03B**

**65 x 10 x 2
4 ft. weir
(See Infiltration
Basin Detail)
ID 33.04B**

**2.0 inch Skimmer
with 1.75 inch
Orifice Diameter
13 ft. weir with
4.75 ft. weir height
ID 33.01B
(See Earthen Dam
with Skimmer Detail)**

**INSTALL PROP. PIPE
DURING CLEARING &
GRUBBING**

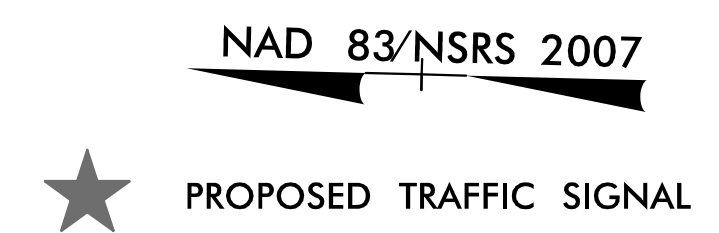
**INSTALL TSD TO PROPOSED
DITCH DEPTH AND DIMENSIONS.**

**120 x 37 x 3
17 ft. weir
(See Infiltration
Basin Detail)
ID 33.02C**

**MATCH LINE -YREV- STA 17+00.00
SEE SHEET 32**

**MATCH LINE -YB- STA 20+50.00
SEE SHEET 6**

**MATCH LINE -YREV- STA 28+50.00
SEE SHEET 6**



**BEGIN CONSTRUCTION
-DRW01- Sta. 11+40.00**

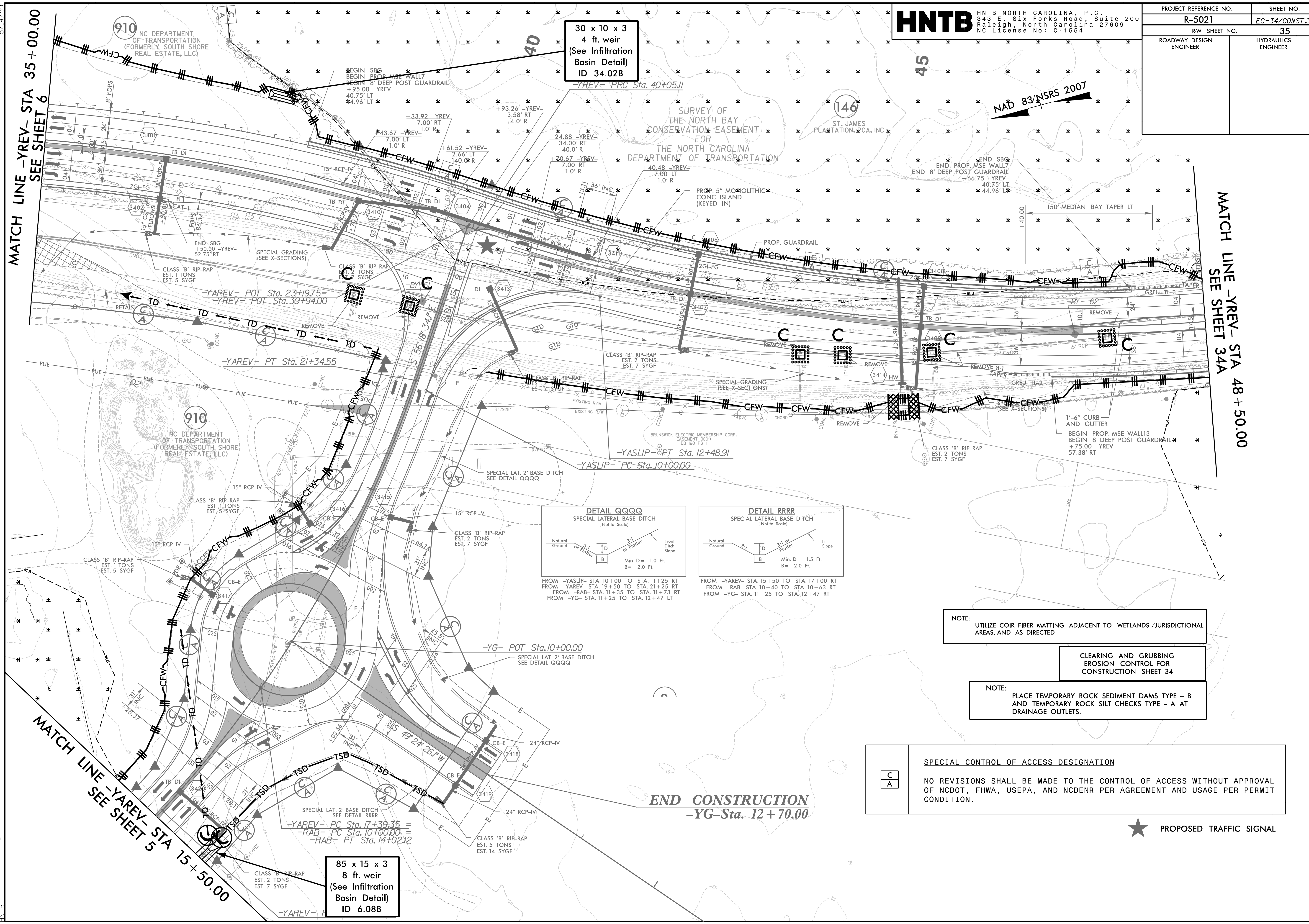
**BEGIN CONSTRUCTION
-YD- Sta. 10+25.00
-YD- POT Sta. 10+00.00**

**BEGIN CONSTRUCTION
-YC- Sta. 10+25.00**

5/14/2021-EC_PSH33.dgn

5/14/2009

9/13/2009
34021-EC_PSH34.dgn
HNTB



MATCH LINE -YREV- STA 35+00.00
SEE SHEET 6

MATCH LINE -YREV- STA 48+50.00
SEE SHEET 34A

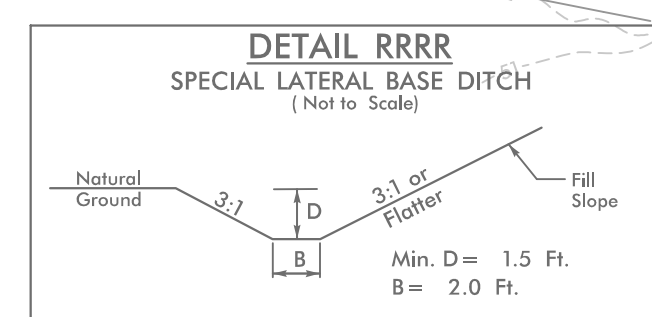
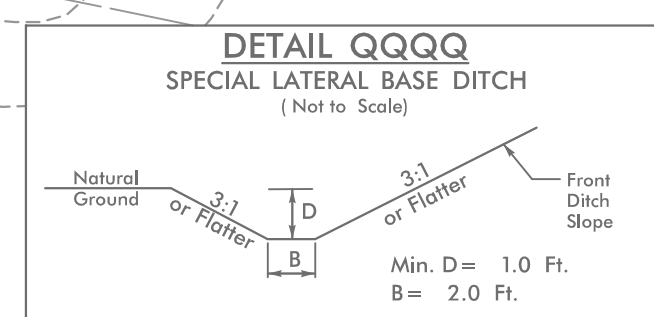
HNTB

HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
R-5021	EC-34/CONST.34
R/W SHEET NO.	35
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

30 x 10 x 3
4 ft. weir
(See Infiltration
Basin Detail)
ID 34.02B

85 x 15 x 3
8 ft. weir
(See Infiltration
Basin Detail)
ID 6.08B



NOTE:
UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS / JURISDICTIONAL AREAS, AND AS DIRECTED

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 34

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

SPECIAL CONTROL OF ACCESS DESIGNATION

C	NO REVISIONS SHALL BE MADE TO THE CONTROL OF ACCESS WITHOUT APPROVAL OF NCDOT, FHWA, USEPA, AND NCDENR PER AGREEMENT AND USAGE PER PERMIT CONDITION.
A	

★ PROPOSED TRAFFIC SIGNAL

END CONSTRUCTION
-YG- Sta. 12+70.00

MATCH LINE -YAREV- STA 15+50.00
SEE SHEET 5

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-5021	EC-34A/CONST.34A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

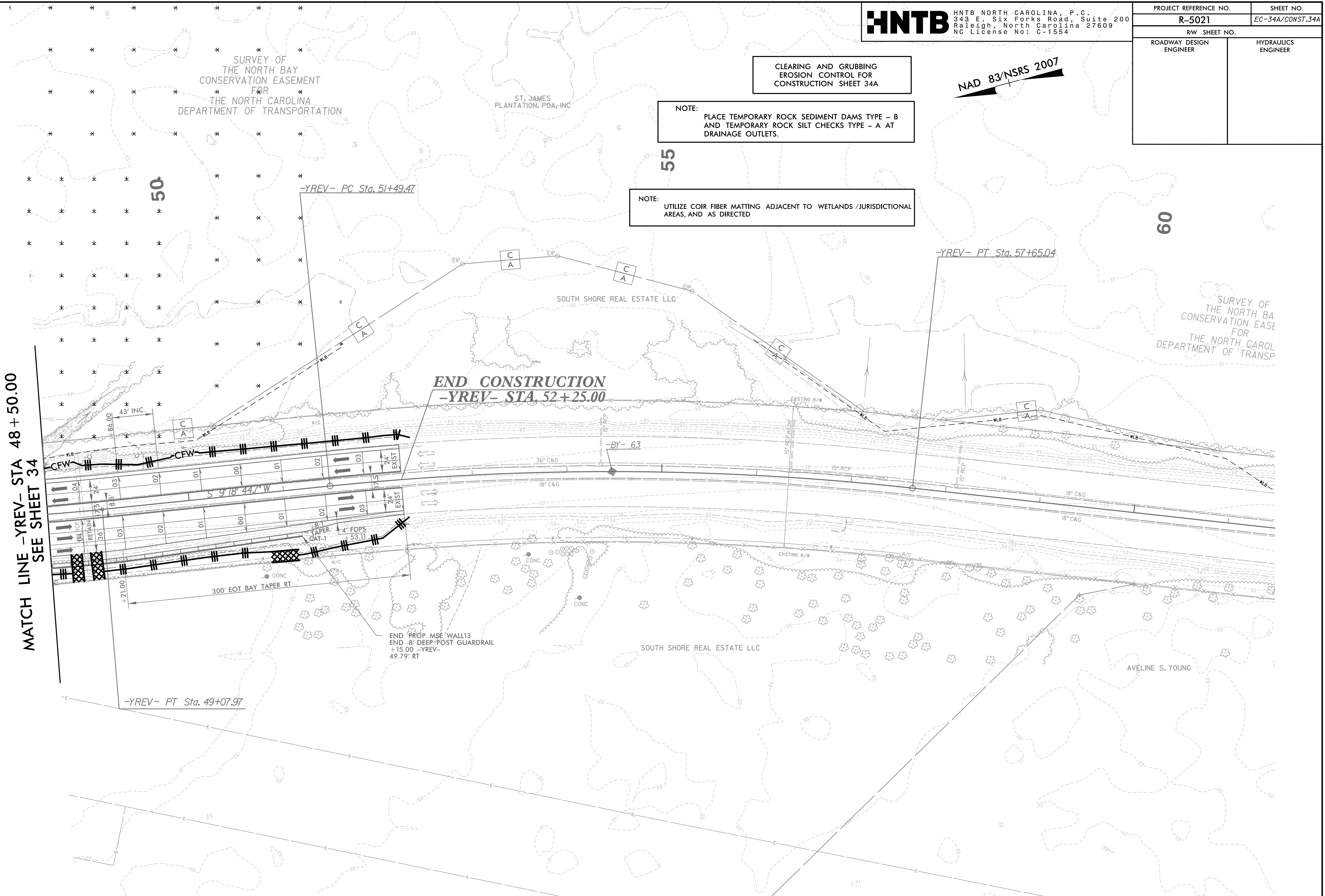
CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 34A

NAD 83/NSRS 2007

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

NOTE:
 UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS /JURISDICTIONAL
 AREAS, AND AS DIRECTED

MATCH LINE -YREV- STA 48 + 50.00
 SEE SHEET 34



END CONSTRUCTION
 -YREV- STA. 52 + 25.00

SPECIAL CONTROL OF ACCESS DESIGNATION

C
A

NO REVISIONS SHALL BE MADE TO THE CONTROL OF ACCESS WITHOUT APPROVAL OF NCDOT, FHWA, USEPA, AND NCDENR PER AGREEMENT AND USAGE PER PERMIT CONDITION.

FOR -YREV- PROFILE, SEE SHEET 56
 FOR DRAINAGE DETAILS, SEE SHEETS 2D-1 THRU 2D-3
 FOR RETAINING WALL PLANS, SEE SHEETS W- THRU W-

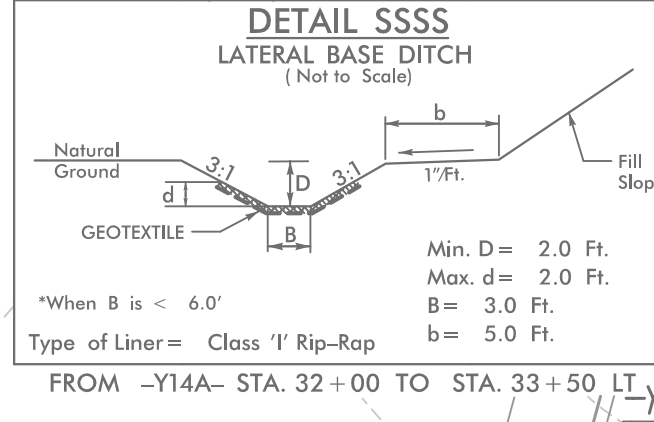
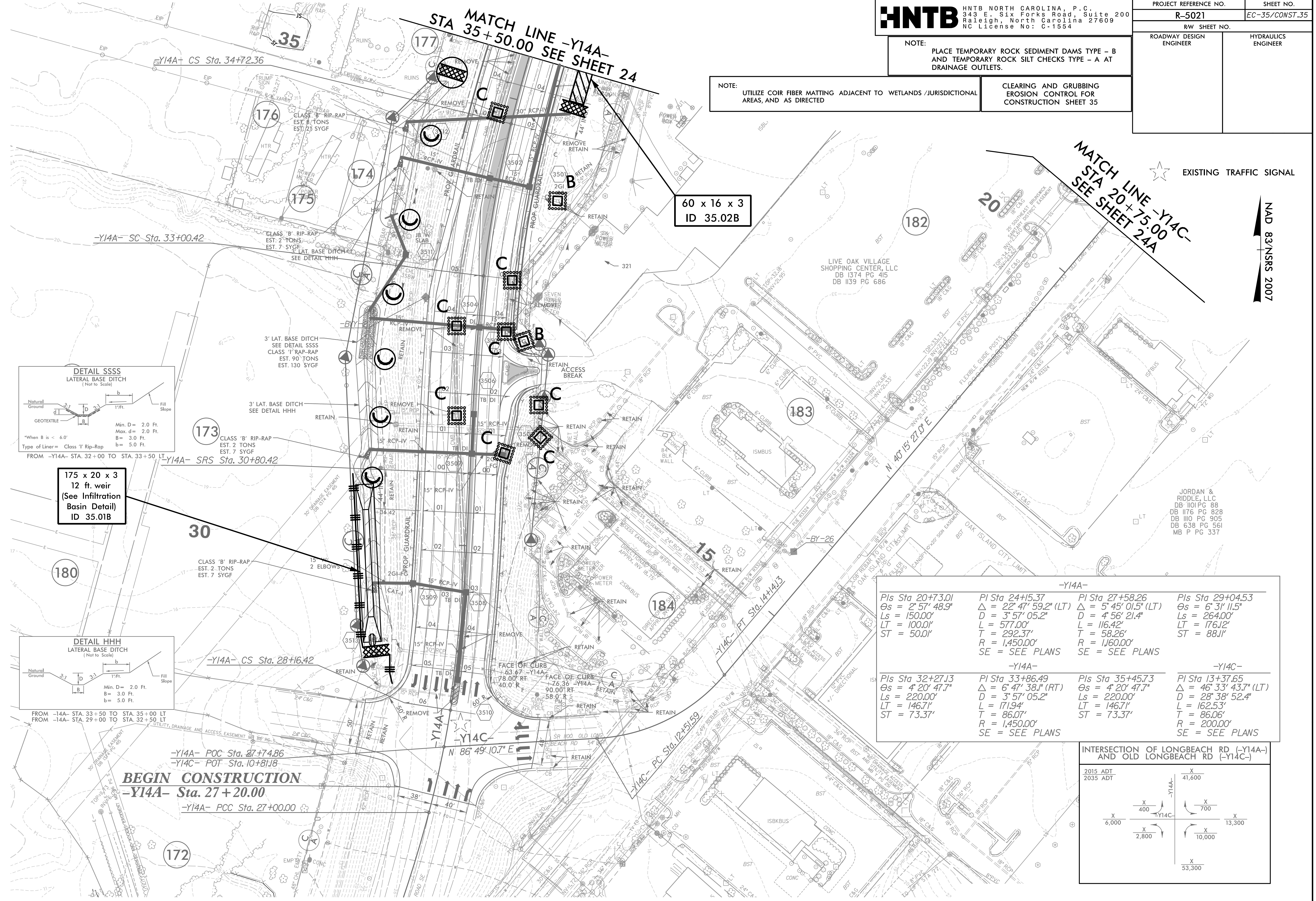
11/27/2008
 IVCR-6021.LC.PSH34A.dgn
 HNTB

PROJECT REFERENCE NO.	SHEET NO.
R-5021	EC-35/CONST.35
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

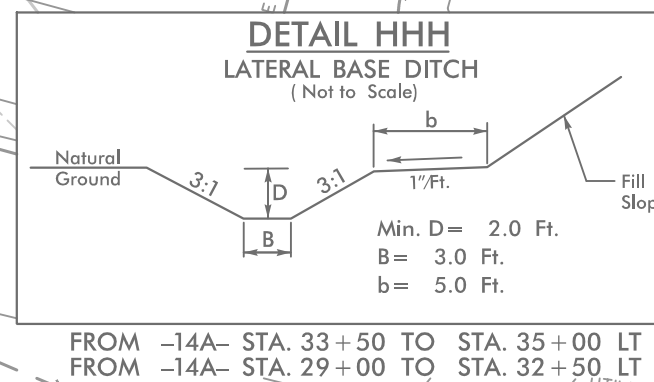
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

NOTE: UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS /JURISDICTIONAL AREAS, AND AS DIRECTED

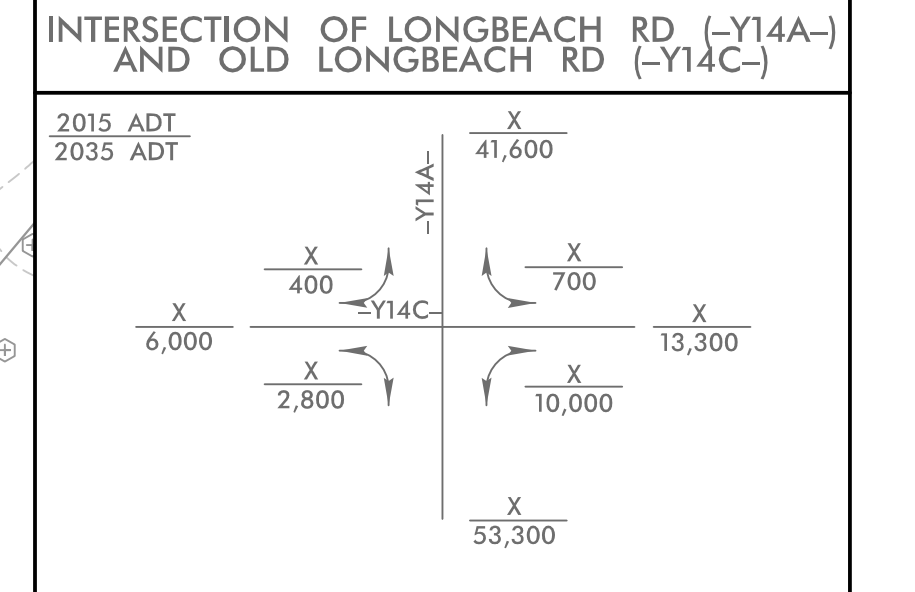
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 35



175 x 20 x 3
12 ft. weir
(See Infiltration Basin Detail)
ID 35.01B



-Y14A-			
Pls Sta 20+73.01 θs = 2° 57' 48.9" Ls = 150.00' LT = 100.01' ST = 50.01'	Pls Sta 24+15.37 Δ = 22° 47' 59.2" (LT) D = 3° 57' 05.2" L = 577.00' T = 292.37' R = 1,450.00' SE = SEE PLANS	Pls Sta 27+58.26 Δ = 5° 45' 01.5" (LT) D = 4° 56' 21.4" L = 116.42' T = 58.26' R = 1,160.00' SE = SEE PLANS	Pls Sta 29+04.53 θs = 6° 31' 11.5" D = 264.00' LT = 176.12' ST = 88.11'
-Y14A-			
Pls Sta 32+27.13 θs = 4° 20' 47.7" Ls = 220.00' LT = 146.71' ST = 73.37'	Pls Sta 33+86.49 Δ = 6° 47' 38.1" (RT) D = 3° 57' 05.2" L = 171.94' T = 86.07' R = 1,450.00' SE = SEE PLANS	Pls Sta 35+45.73 θs = 4° 20' 47.7" Ls = 220.00' LT = 146.71' ST = 73.37'	Pls Sta 13+37.65 Δ = 46° 33' 43.7" (LT) D = 28° 38' 52.4" L = 162.53' T = 86.06' R = 200.00' SE = SEE PLANS



-Y14A- POC Sta. 27+74.86
-Y14C- POT Sta. 10+81.18
BEGIN CONSTRUCTION
-Y14A- Sta. 27+20.00
-Y14A- PCC Sta. 27+00.00

5/14/99

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 36

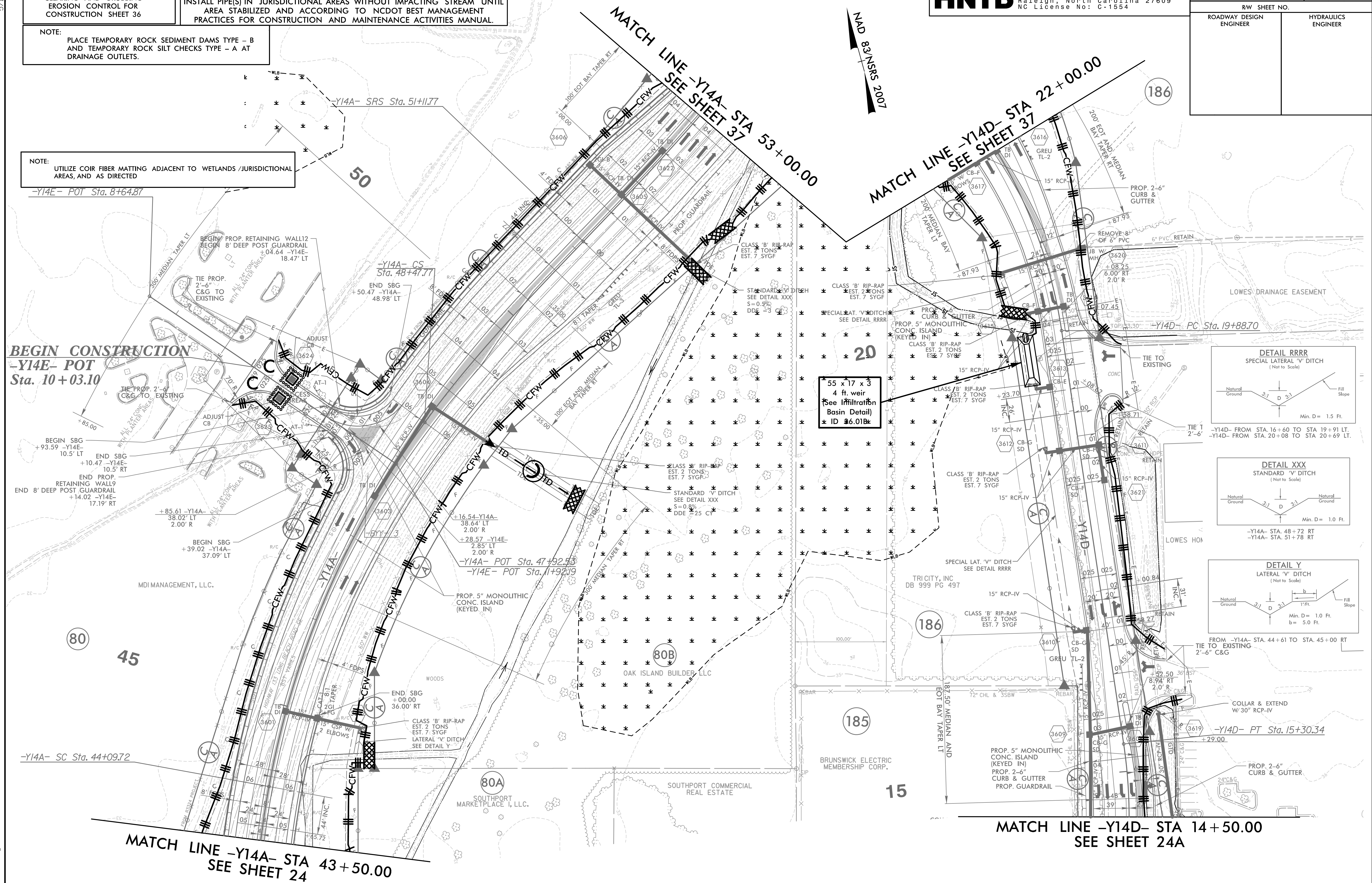
INSTALL PIPE(S) IN JURISDICTIONAL AREAS WITHOUT IMPACTING STREAM UNTIL
AREA STABILIZED AND ACCORDING TO NCDOT BEST MANAGEMENT
PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

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

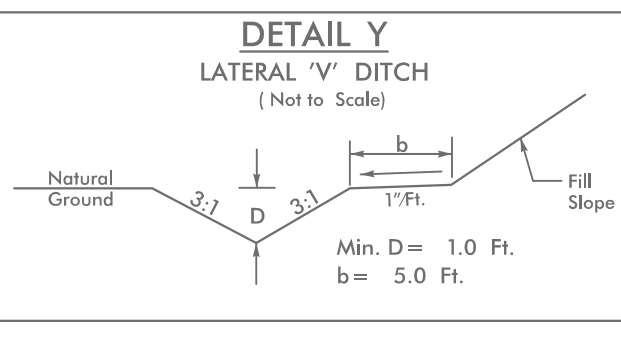
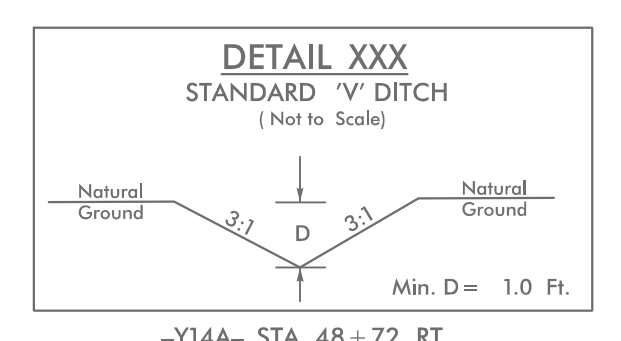
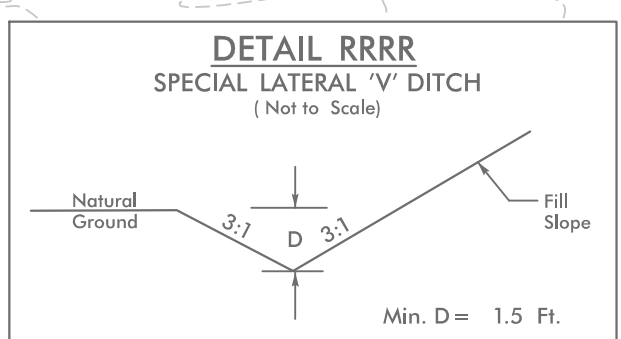
NOTE:
UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS /JURISDICTIONAL
AREAS, AND AS DIRECTED

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343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
R-5021	EC-36/CONST.36
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



55 x 17 x 3
4 ft. weir
(See Infiltration
Basin Detail)
ID 36.01Bz

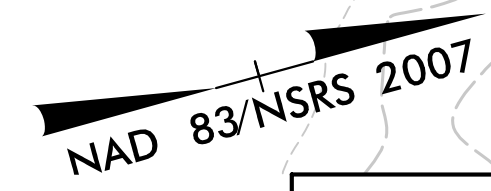


DO NOT DISTURB FENCE AROUND
BRUNSWICK ELECTRIC PARCEL

10/28/2021 EC_PSH36.dgn

5/14/99

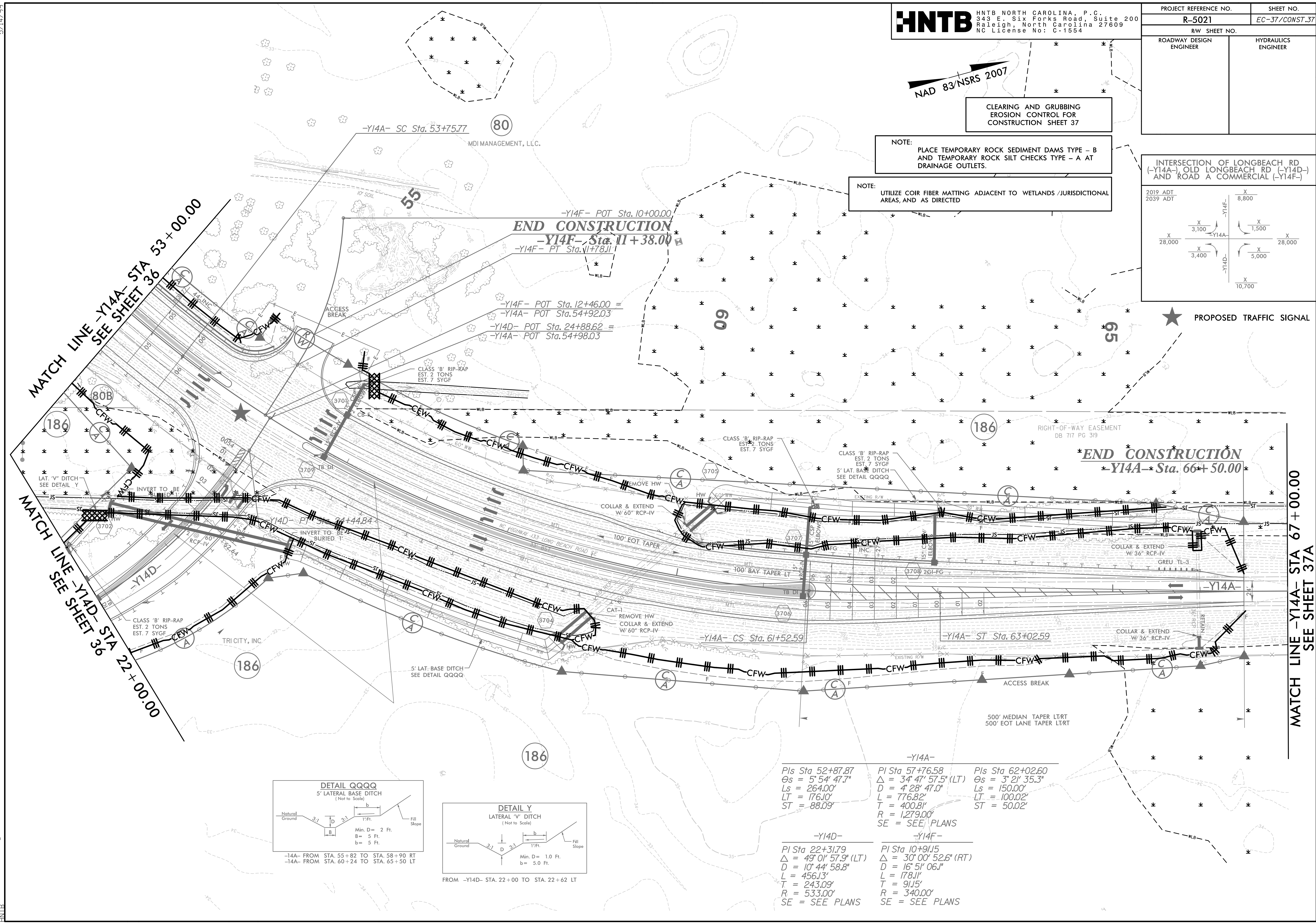
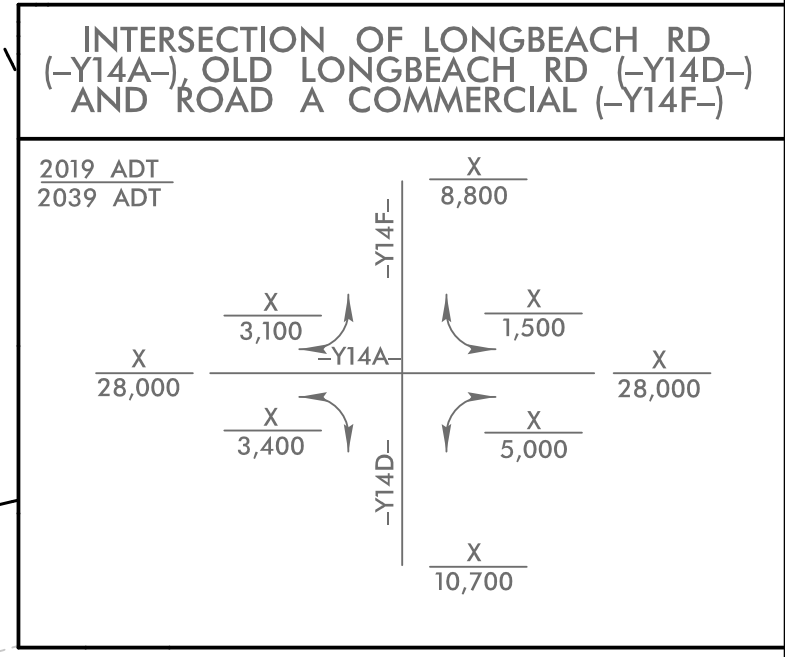
PROJECT REFERENCE NO.	SHEET NO.
R-5021	EC-37/CONST.37
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 37

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

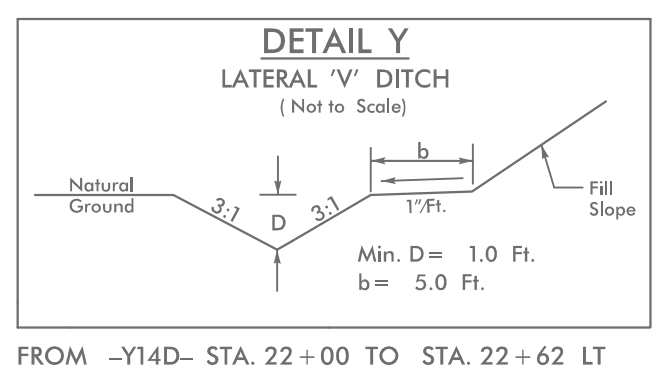
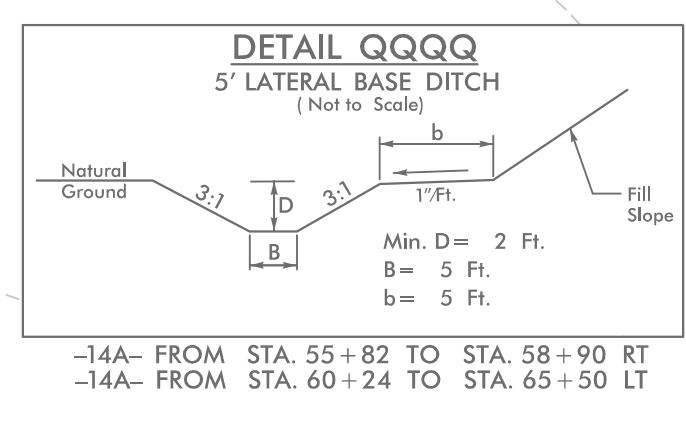
NOTE: UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS / JURISDICTIONAL AREAS, AND AS DIRECTED



MATCH LINE -Y14A- STA 53+00.00
 SEE SHEET 36

MATCH LINE -Y14D- STA 22+00.00
 SEE SHEET 36

MATCH LINE -Y14A- STA 67+00.00
 SEE SHEET 37A

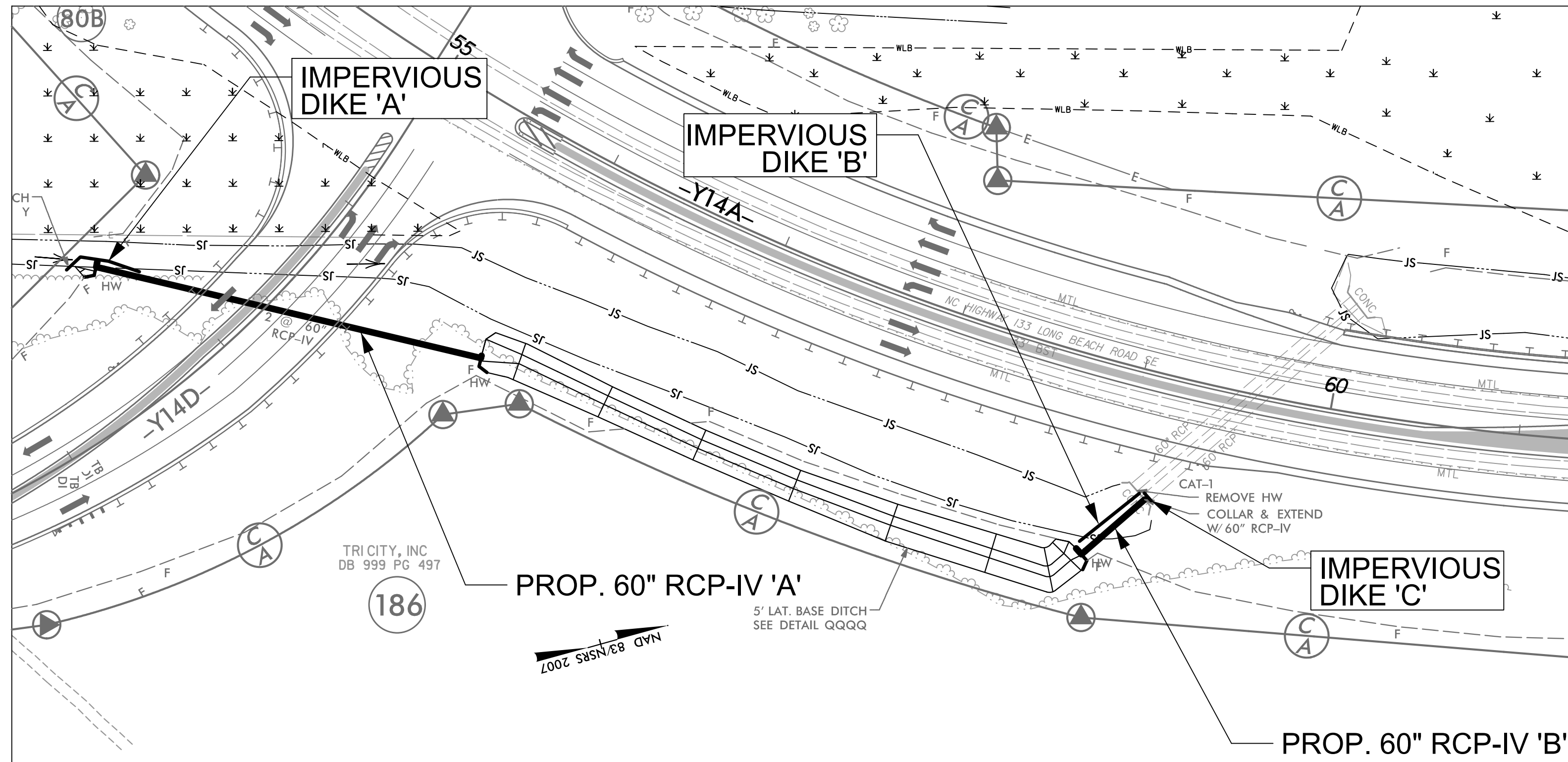


<p>-Y14A-</p> <p>PIs Sta 52+87.87 $\theta_s = 5^\circ 54' 47.7''$ $L_s = 264.00'$ $LT = 176.10'$ $ST = 88.09'$</p>	<p>-Y14A-</p> <p>PI Sta 57+76.58 $\Delta = 34^\circ 47' 57.5''$ (LT) $D = 4^\circ 28' 47.0''$ $L = 776.82'$ $T = 400.81'$ $R = 1,279.00'$ $SE = SEE PLANS$</p>	<p>-Y14A-</p> <p>PIs Sta 62+02.60 $\theta_s = 3^\circ 21' 35.3''$ $L_s = 150.00'$ $LT = 100.02'$ $ST = 50.02'$</p>
<p>-Y14D-</p> <p>PI Sta 22+31.79 $\Delta = 49^\circ 01' 57.9''$ (LT) $D = 10^\circ 44' 58.8''$ $L = 456.13'$ $T = 243.09'$ $R = 533.00'$ $SE = SEE PLANS$</p>	<p>-Y14F-</p> <p>PI Sta 10+91.15 $\Delta = 30^\circ 00' 52.6''$ (RT) $D = 16^\circ 51' 06.1''$ $L = 178.11'$ $T = 91.15'$ $R = 340.00'$ $SE = SEE PLANS$</p>	

4/22/2021
 4/22/2021
 EC_PSH37.dgn

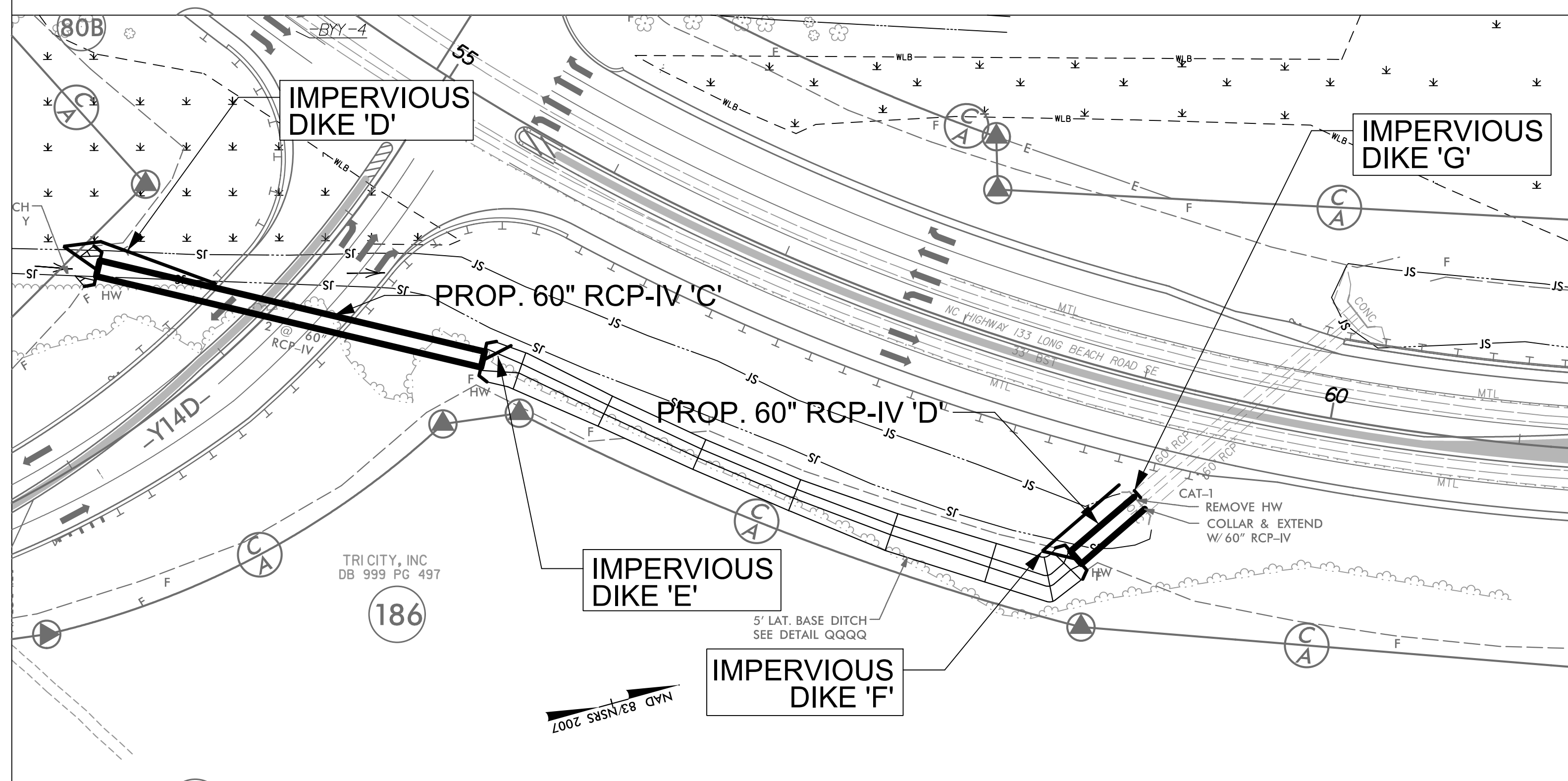
PROJECT REFERENCE NO.	SHEET NO.
R-5021	EC-37A/CONST.37
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**R-5021 CULVERT PHASING 6 OF 6
 OLD LONG BEACH ROAD OVER UT TO DUTCHMAN CREEK
 BRUNSWICK COUNTY
 -Y14D- 23+35**



PHASE I

1. UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED DURING CULVERT CONSTRUCTION.
2. INSTALL IMPERVIOUS DIKES 'A', 'B' AND 'C'
3. DEWATER CONSTRUCTION AREA(S) INTO SPECIAL STILLING BASIN(S).
4. INSTALL PROPOSED 60" RCP-IV 'A' AND 'B' AND HEADWALLS.
5. CONSTRUCT PROPOSED 5' LATERAL BASE DITCH SOUTH OF Y14A (NC HIGHWAY 133 LONG BEACH ROAD SE).

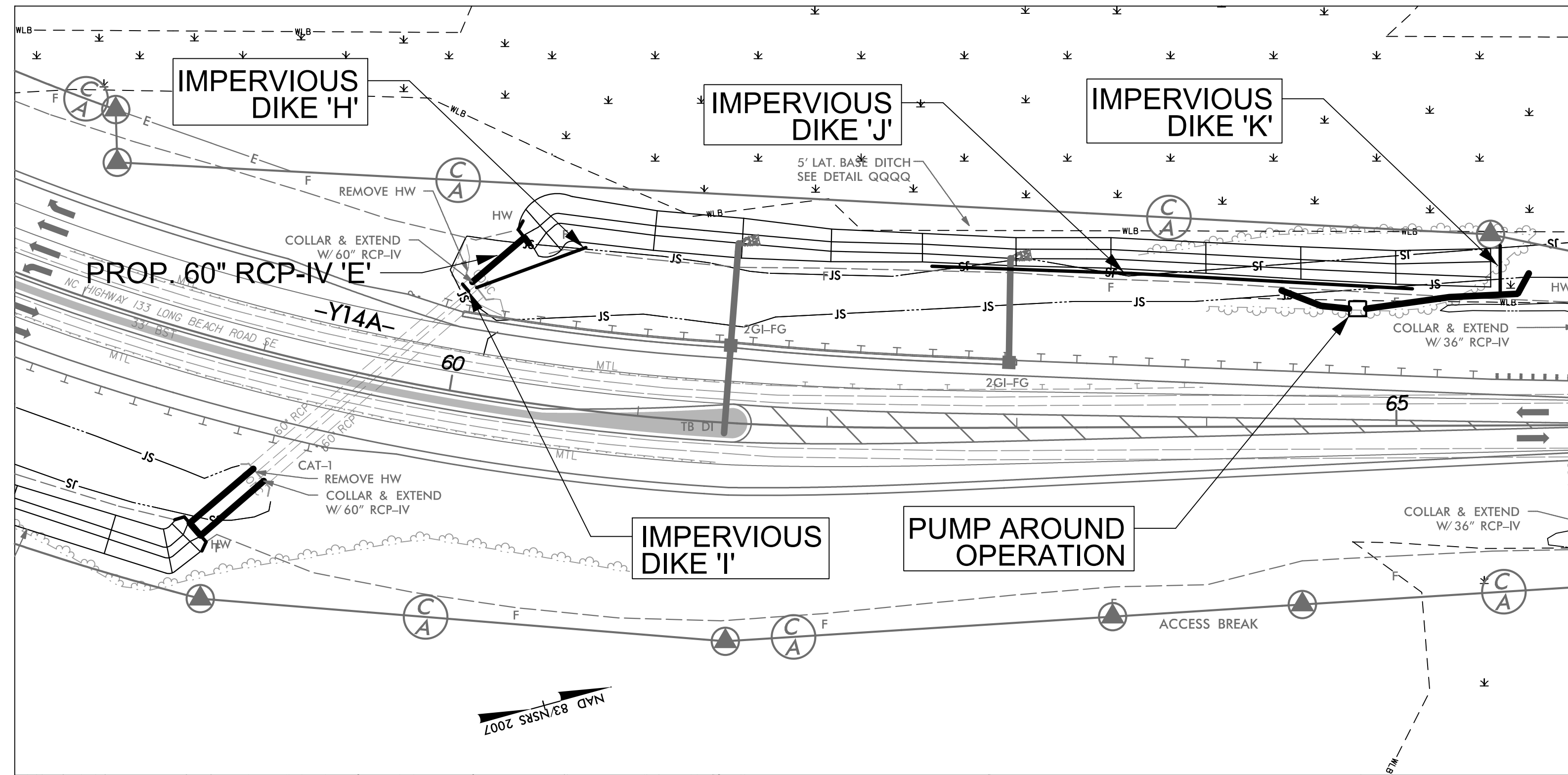


PHASE II

1. REMOVE IMPERVIOUS DIKES 'A', 'B' AND 'C'.
2. INSTALL IMPERVIOUS DIKES 'D', 'E', 'F' AND 'G'.
3. DEWATER CONSTRUCTION AREA(S) INTO SPECIAL STILLING BASIN(S).
4. DIVERT FLOW TO NEWLY CONSTRUCTED 60" RCP-IV 'A' AND 'B'.
5. INSTALL PROPOSED 60" RCP-IV 'C' AND 'D' AND HEADWALLS.
6. REMOVE IMPERVIOUS DIKES 'D', 'E', 'F' AND 'G'.
7. CONSTRUCT PROPOSED FILL SLOPE SOUTH SIDE OF Y14A (NC HIGHWAY 133 LONG BEACH ROAD SE).

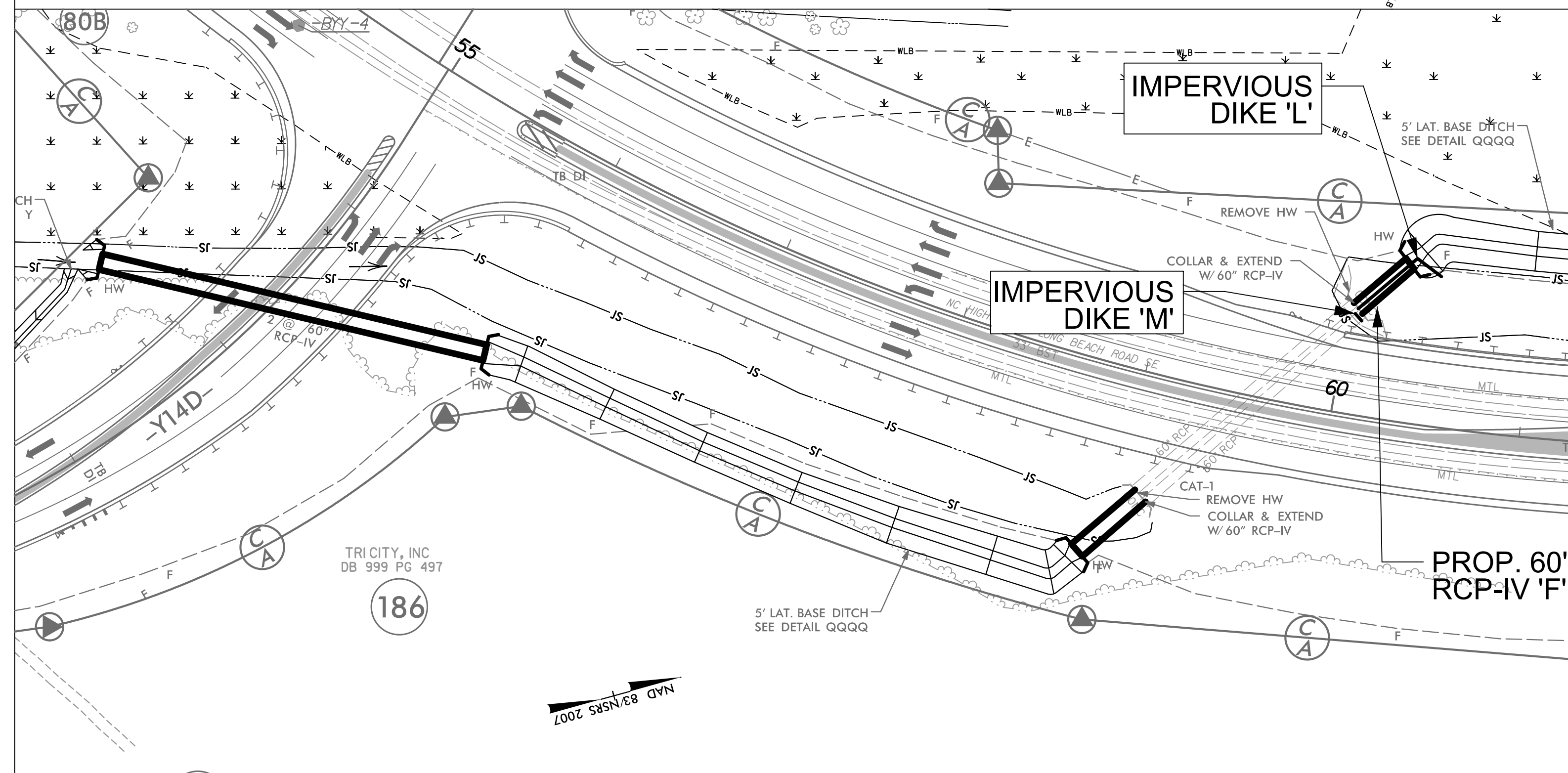
PROJECT REFERENCE NO.	SHEET NO.
R-5021	EC-37B/CONST.37
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**R-5021 CULVERT PHASING 6 OF 6
 NC HIGHWAY 133 LONG BEACH ROAD SE OVER UT TO DUTCHMAN CREEK
 BRUNSWICK COUNTY
 -14A- 59+59**



PHASE III

1. INSTALL IMPERVIOUS DIKES 'H' AND 'I'.
2. DEWATER CONSTRUCTION AREA(S) INTO SPECIAL STILLING BASIN(S).
3. INSTALL PROPOSED 60" RCP-IV 'E' AND HEADWALL.
4. INSTALL IMPERVIOUS DIKE 'J', 'K' AND PUMP AROUND OPERATION.
5. DEWATER CONSTRUCTION AREA(S) INTO SPECIAL STILLING BASIN(S).
6. CONSTRUCT PROPOSED 5' LATERAL BASE DITCH NORTH OF Y14A (NC HIGHWAY 133 LONG BEACH ROAD SE).

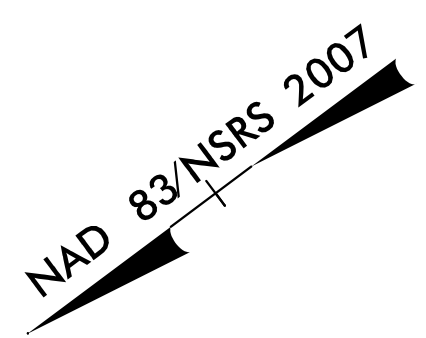


PHASE IV

1. REMOVE IMPERVIOUS DIKES 'H', 'I', 'J' AND 'K'.
2. INSTALL IMPERVIOUS DIKES 'L' AND 'M'.
3. DIVERT FLOW TO NEWLY CONSTRUCTED 60" RCP-IV 'E'.
4. DEWATER CONSTRUCTION AREA(S) INTO SPECIAL STILLING BASIN(S).
5. INSTALL PROPOSED 60" RCP-IV 'F' AND HEADWALL.
6. REMOVE IMPERVIOUS DIKES 'L', 'M' AND ANY REMAINING SPECIAL STILLING BASIN(S).
7. COMPLETE ROADWAY.

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-5021	EC-39/CONST.39
RW SHEET NO.	37
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

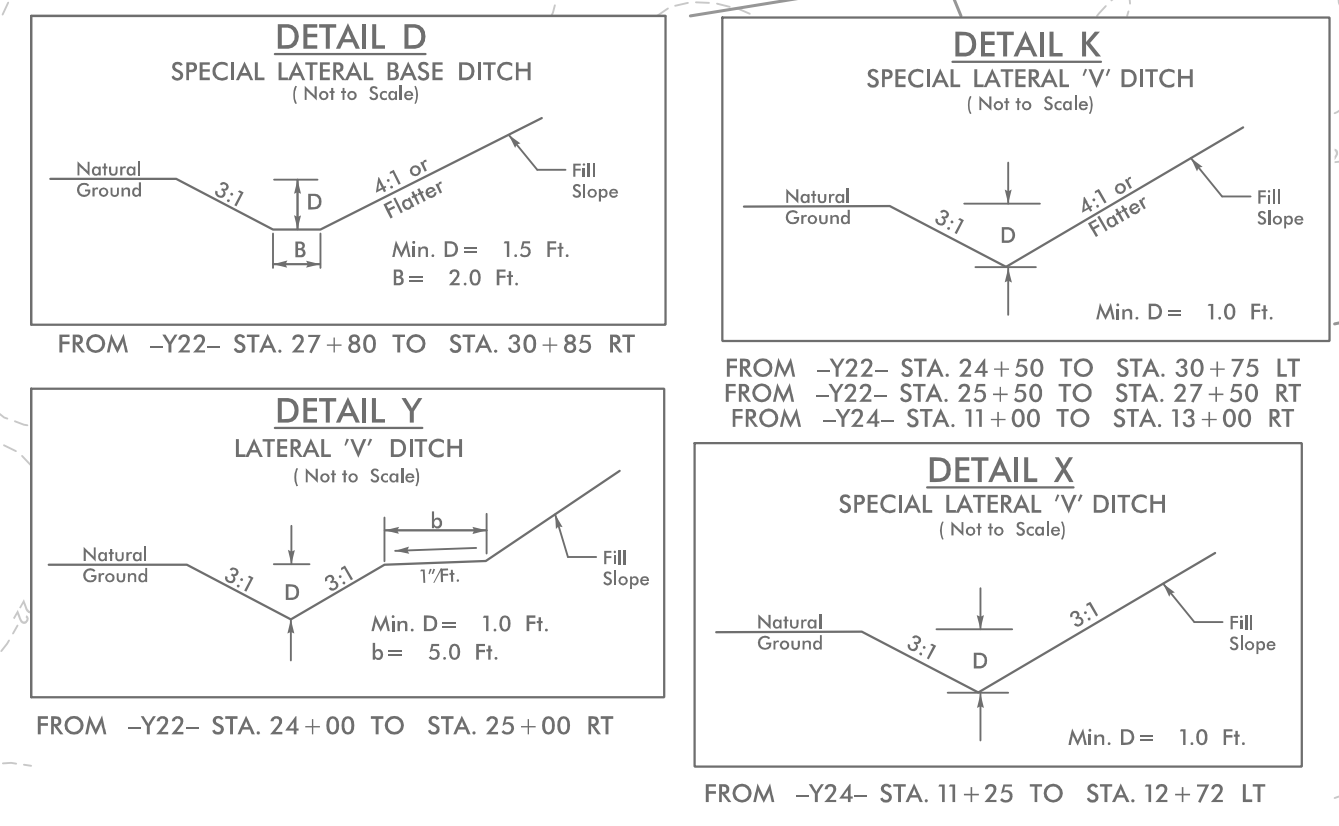


CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 39

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

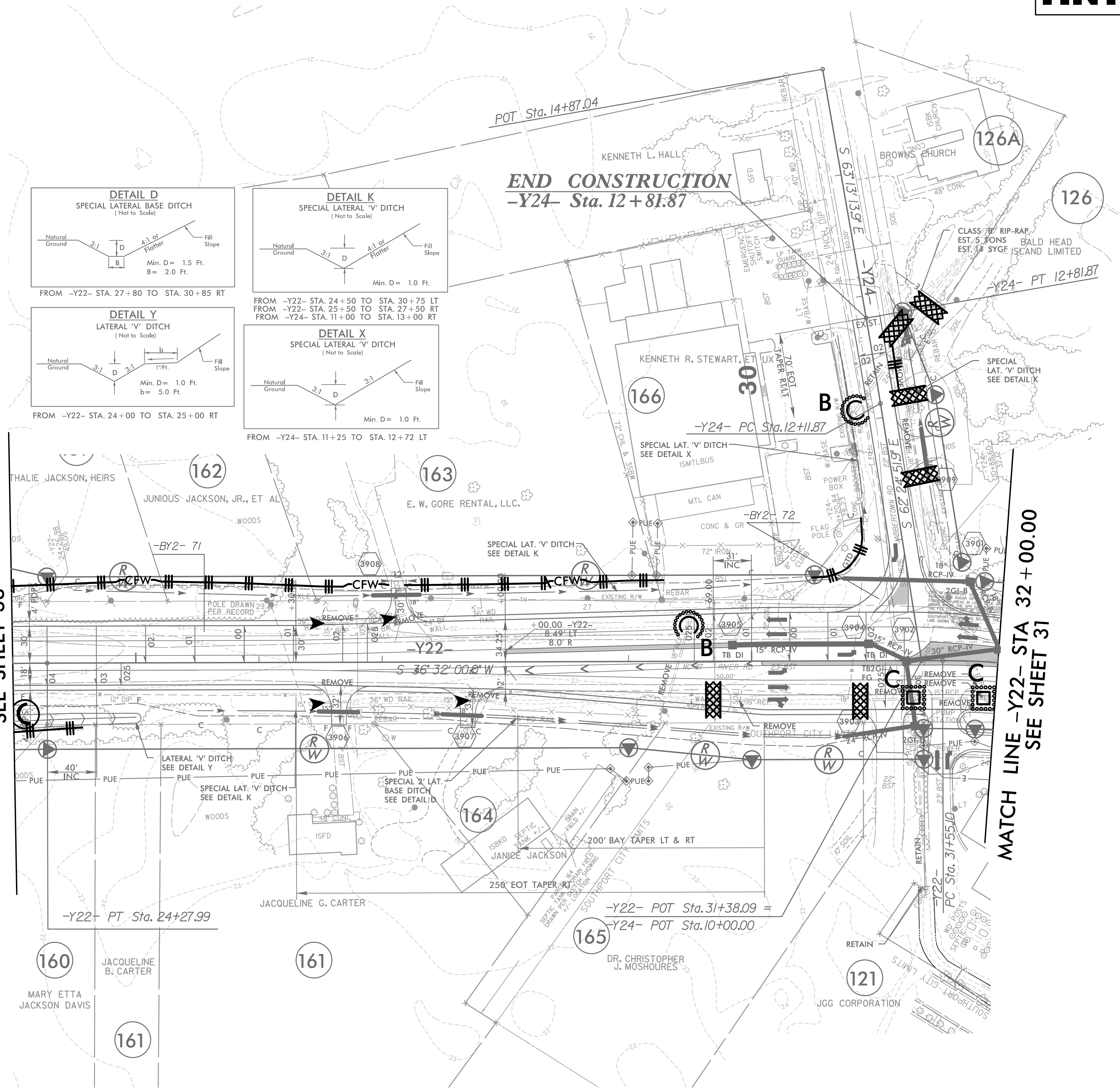
NOTE:
 UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS / JURISDICTIONAL
 AREAS, AND AS DIRECTED

END CONSTRUCTION
 -Y24- Sta. 12+81.87



MATCH LINE -Y22- STA 24+00.00
 SEE SHEET 38

MATCH LINE -Y22- STA 32+00.00
 SEE SHEET 31

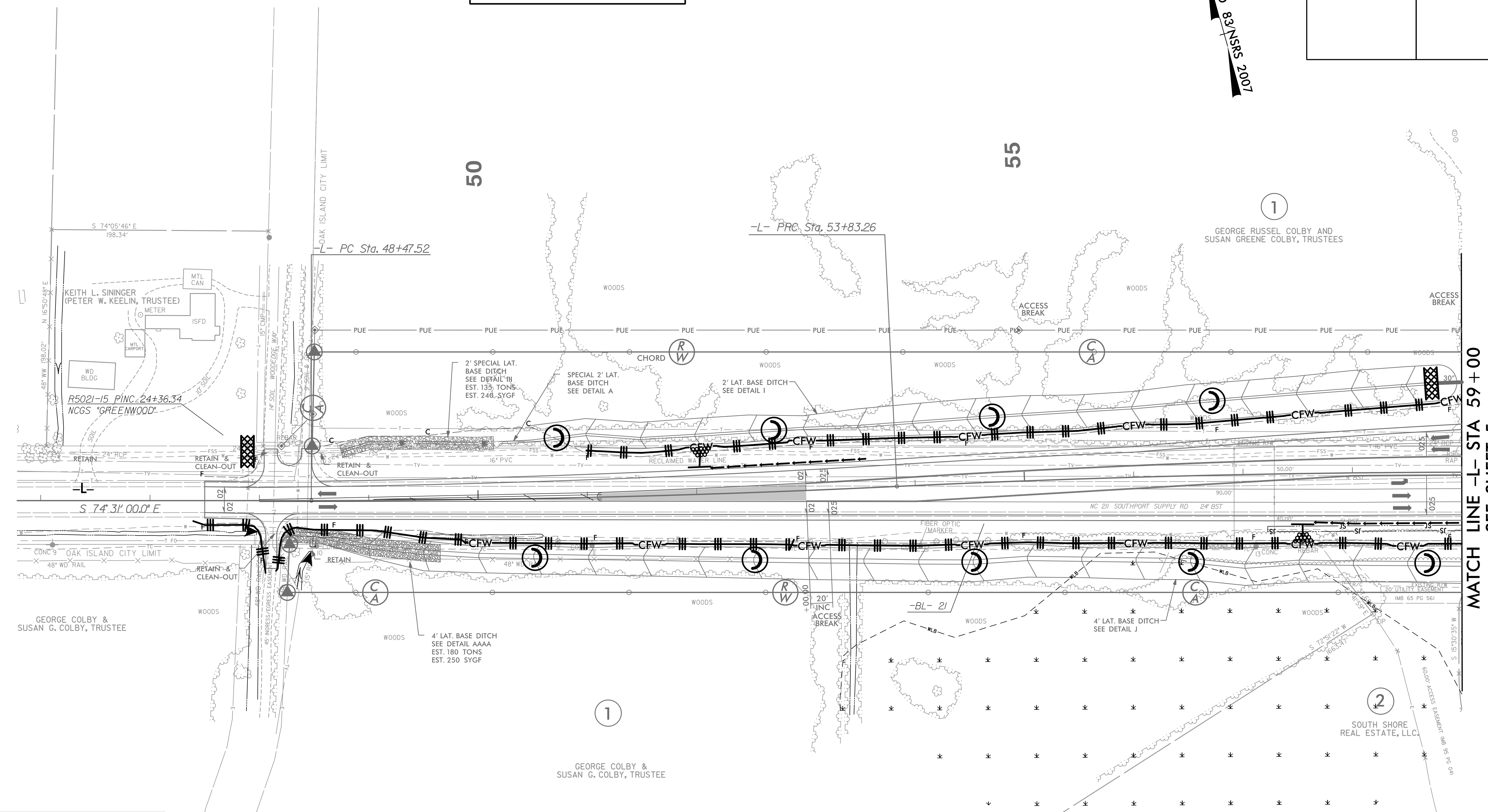
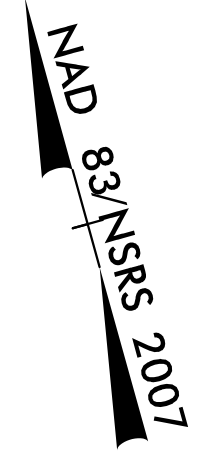


5/14/99

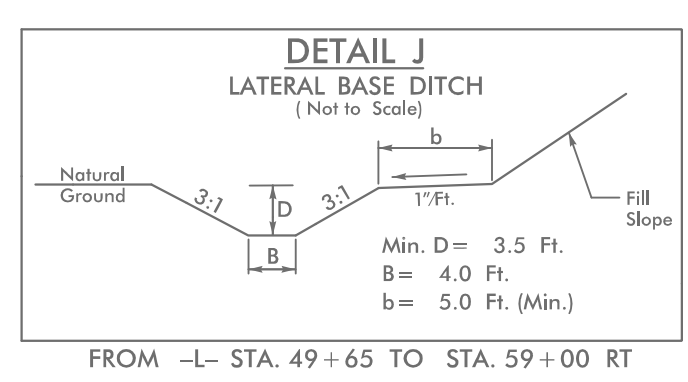
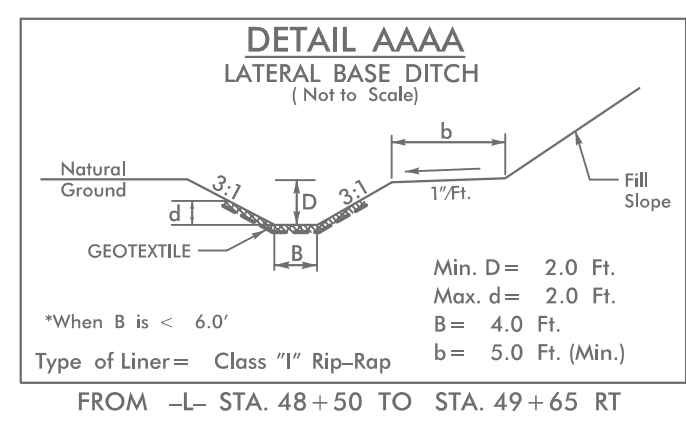
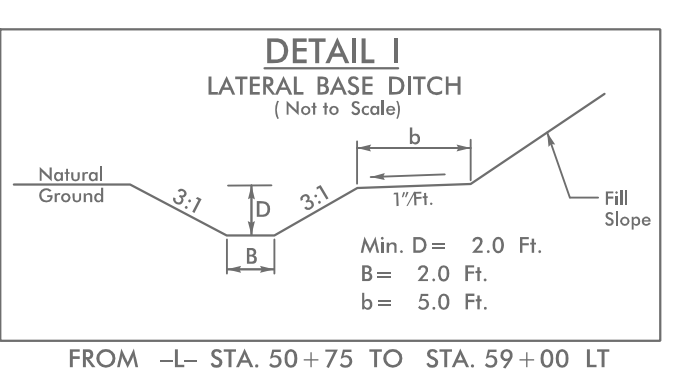
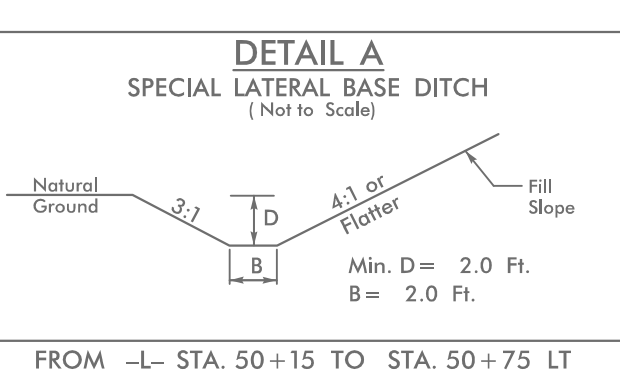
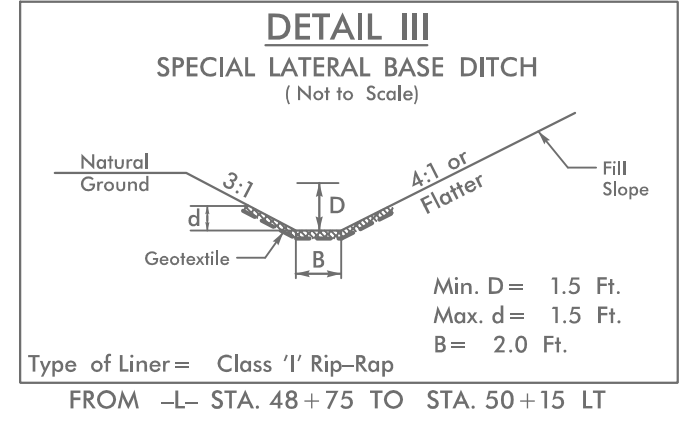
PROJECT REFERENCE NO.	SHEET NO.
R-5021	EC-41/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE:
 UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS / JURISDICTIONAL AREAS, AND AS DIRECTED

Place Matting for Erosion Control
 or Coir Fiber Mat, as directed,
 on Slope as Work Allows.
 -L- Sta. 51+50 to Sta. 59+00 LT
 -L- Sta. 57+50 to Sta. 59+00 RT



MATCH LINE -L- STA 59+00
 SEE SHEET 5



- NOTE:
1. ALL DRIVEWAY RADII ARE 20' UNLESS NOTED ON PLANS.
 2. PAVED TURNOUTS FOR SHOULDER SECTION SHOULD EXTEND 50' UNLESS NOTED ON PLANS.

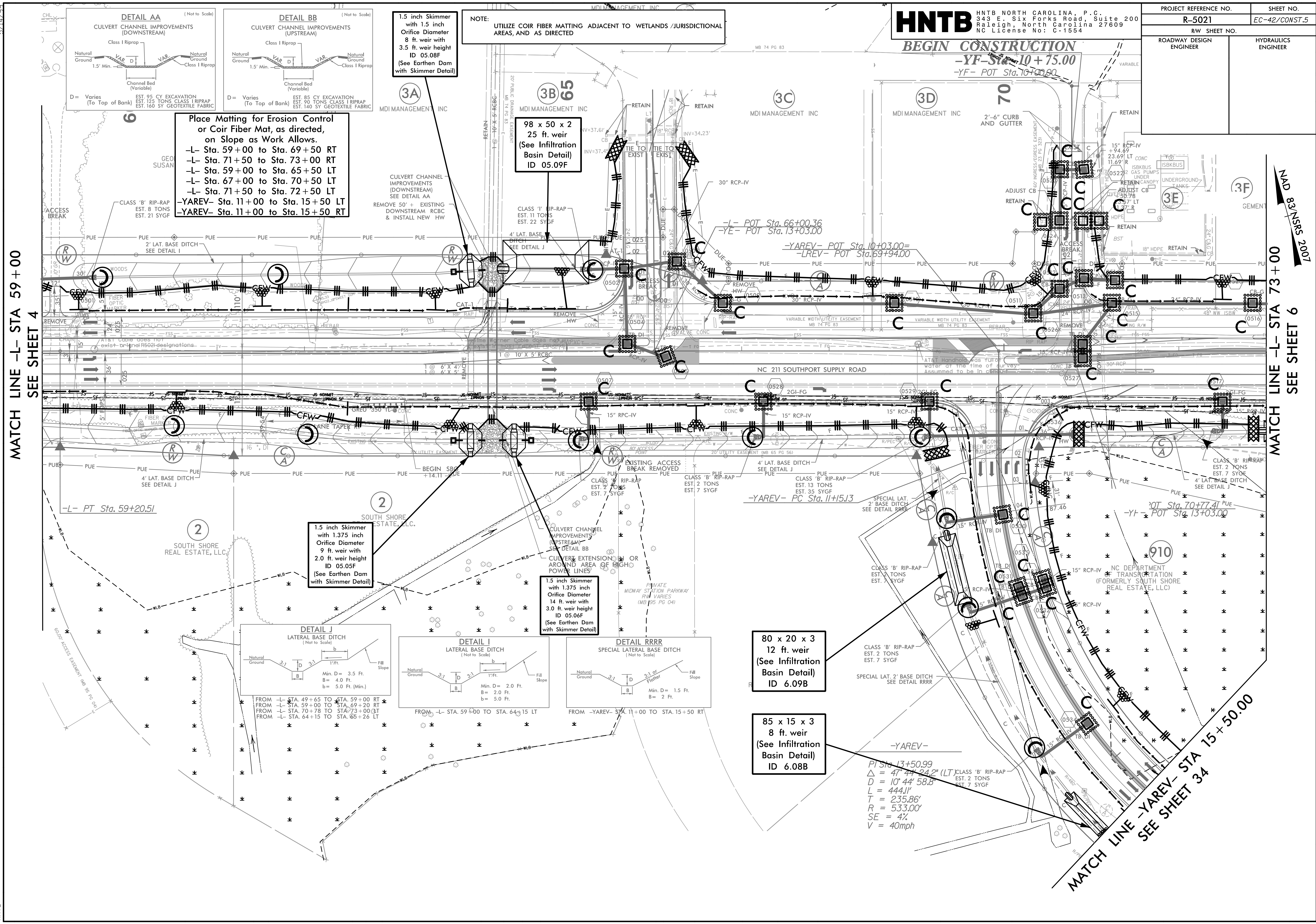
FOR -L- PROFILE, SEE SHEET 41
 FOR DRAINAGE DETAILS, SEE SHEETS 2D-1 THRU 2D-3

11/2/2008 11:50:11 EC_PSH4.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-5021	EC-42/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

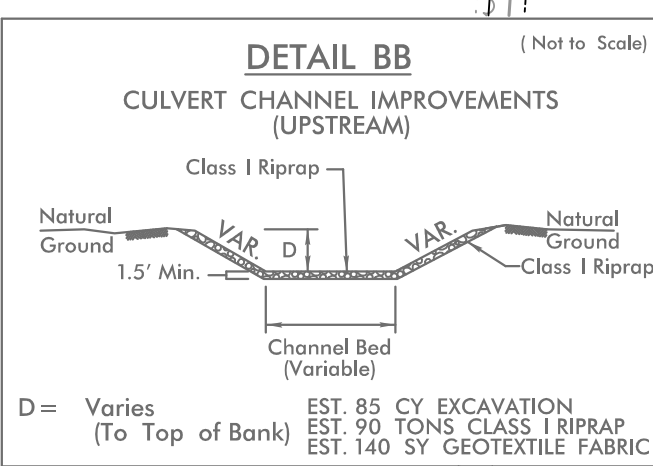
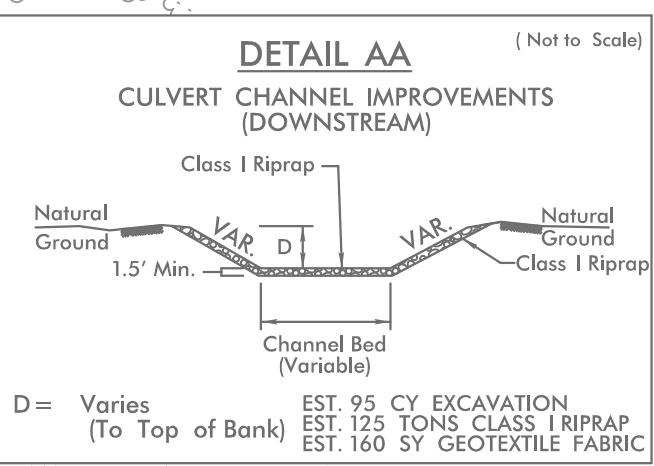
HNTB HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554

BEGIN CONSTRUCTION
 -YF- Sta. 10+75.00
 -YF- POT Sta. 10+70.90



MATCH LINE -L- STA 59+00
SEE SHEET 4

MATCH LINE -L- STA 73+00
SEE SHEET 6



Place Matting for Erosion Control or Coir Fiber Mat, as directed, on Slope as Work Allows.
 -L- Sta. 59+00 to Sta. 69+50 RT
 -L- Sta. 71+50 to Sta. 73+00 RT
 -L- Sta. 59+00 to Sta. 65+50 LT
 -L- Sta. 67+00 to Sta. 70+50 LT
 -L- Sta. 71+50 to Sta. 72+50 LT
 -YAREV- Sta. 11+00 to Sta. 15+50 LT
 -YAREV- Sta. 11+00 to Sta. 15+50 RT

1.5 inch Skimmer with 1.5 inch Orifice Diameter
 8 ft. weir with 3.5 ft. weir height
 ID 05.08F
 (See Earthen Dam with Skimmer Detail)

NOTE:
 UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS / JURISDICTIONAL AREAS, AND AS DIRECTED

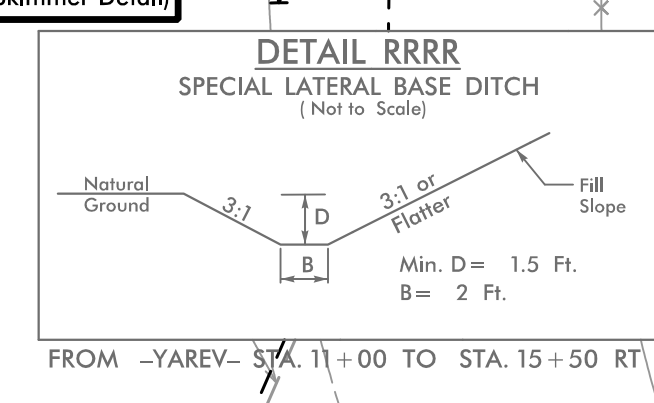
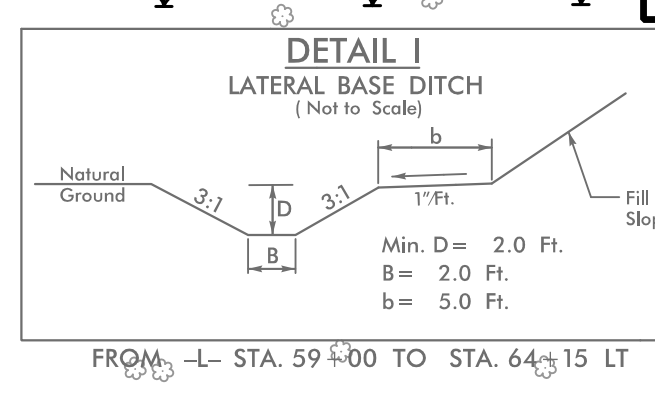
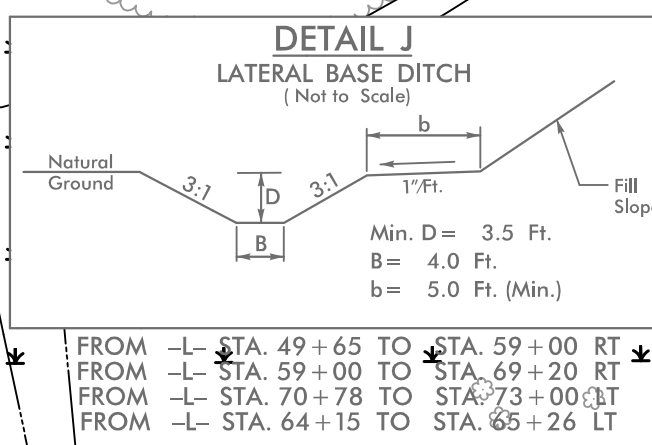
98 x 50 x 2
 25 ft. weir
 (See Infiltration Basin Detail)
 ID 05.09F

1.5 inch Skimmer with 1.375 inch Orifice Diameter
 9 ft. weir with 2.0 ft. weir height
 ID 05.05F
 (See Earthen Dam with Skimmer Detail)

1.5 inch Skimmer with 1.375 inch Orifice Diameter
 14 ft. weir with 3.0 ft. weir height
 ID 05.06F
 (See Earthen Dam with Skimmer Detail)

80 x 20 x 3
 12 ft. weir
 (See Infiltration Basin Detail)
 ID 6.09B

85 x 15 x 3
 8 ft. weir
 (See Infiltration Basin Detail)
 ID 6.08B

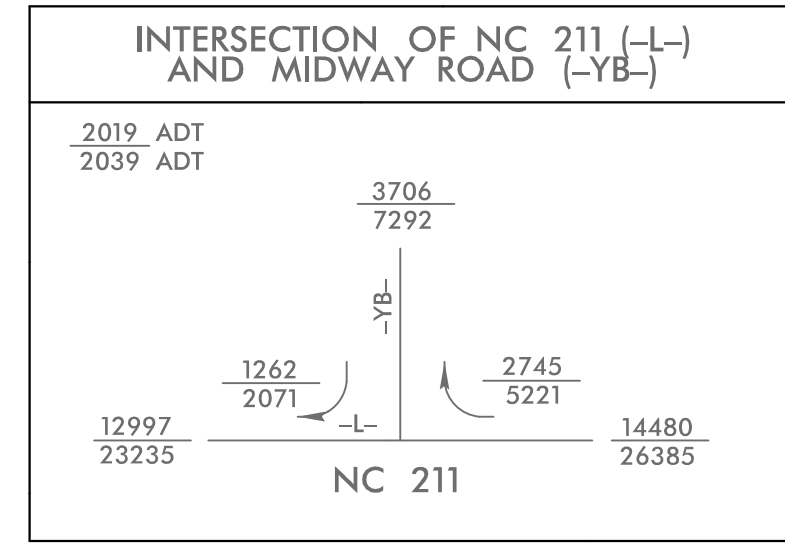


-YAREV-
 P1 Sta. 13+50.99
 Δ = 47° 44' 24.2" (LT)
 D = 10' 44" 58.8"
 L = 444.1'
 T = 235.86'
 R = 533.00'
 SE = 4%
 V = 40mph

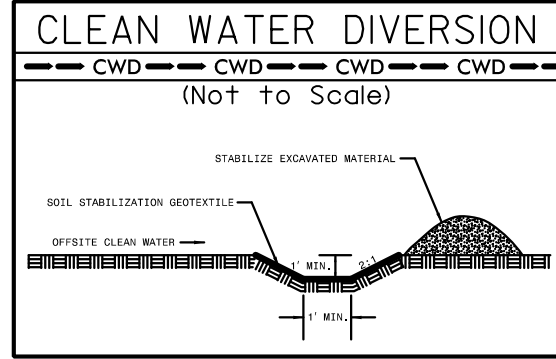
MATCH LINE -YAREV- STA 15+50.00
SEE SHEET 34

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-5021	EC-43/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MAD
8/1/NSRS 2007

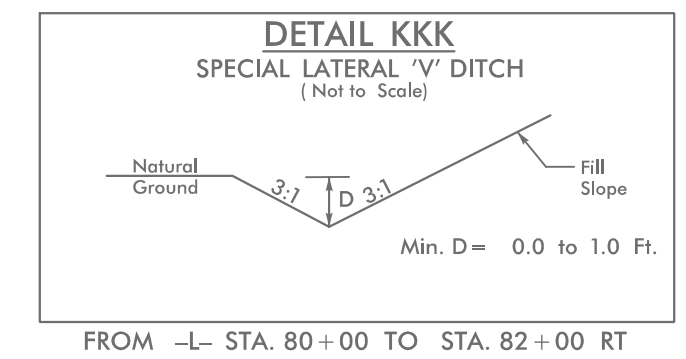


NOTE:
 UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS/JURISDICTIONAL AREAS, AND AS DIRECTED

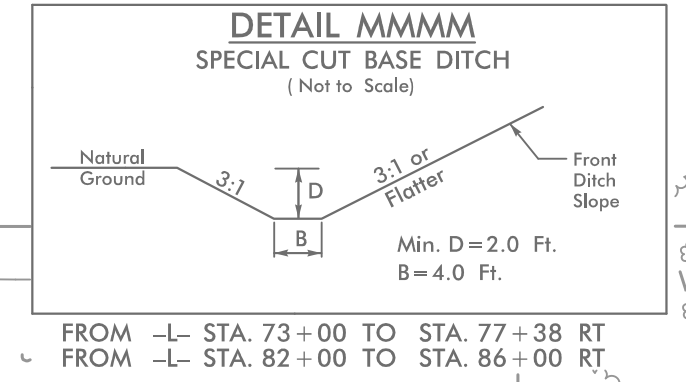
Place Matting for Erosion Control or Coir Fiber Mat, as directed, on Slope as Work Allows.
 -L- Sta. 80+00 to Sta. 86+00 RT
 -L- Sta. 73+00 to Sta. 77+00 RT
 -L- Sta. 85+50 to Sta. 86+50 LT
 -YREV- Sta. 33+50 to Sta. 35+00 RT
 -YREV- Sta. 33+50 to Sta. 35+00 LT
 -YREV- Sta. 28+50 to 30+00 LT
 -YREV- Sta. 28+50 to Sta. 30+00 RT

MATCH LINE -YB- STA 20+50.00
 SEE SHEET 33

MATCH LINE -YREV- STA 28+50
 SEE SHEET 33



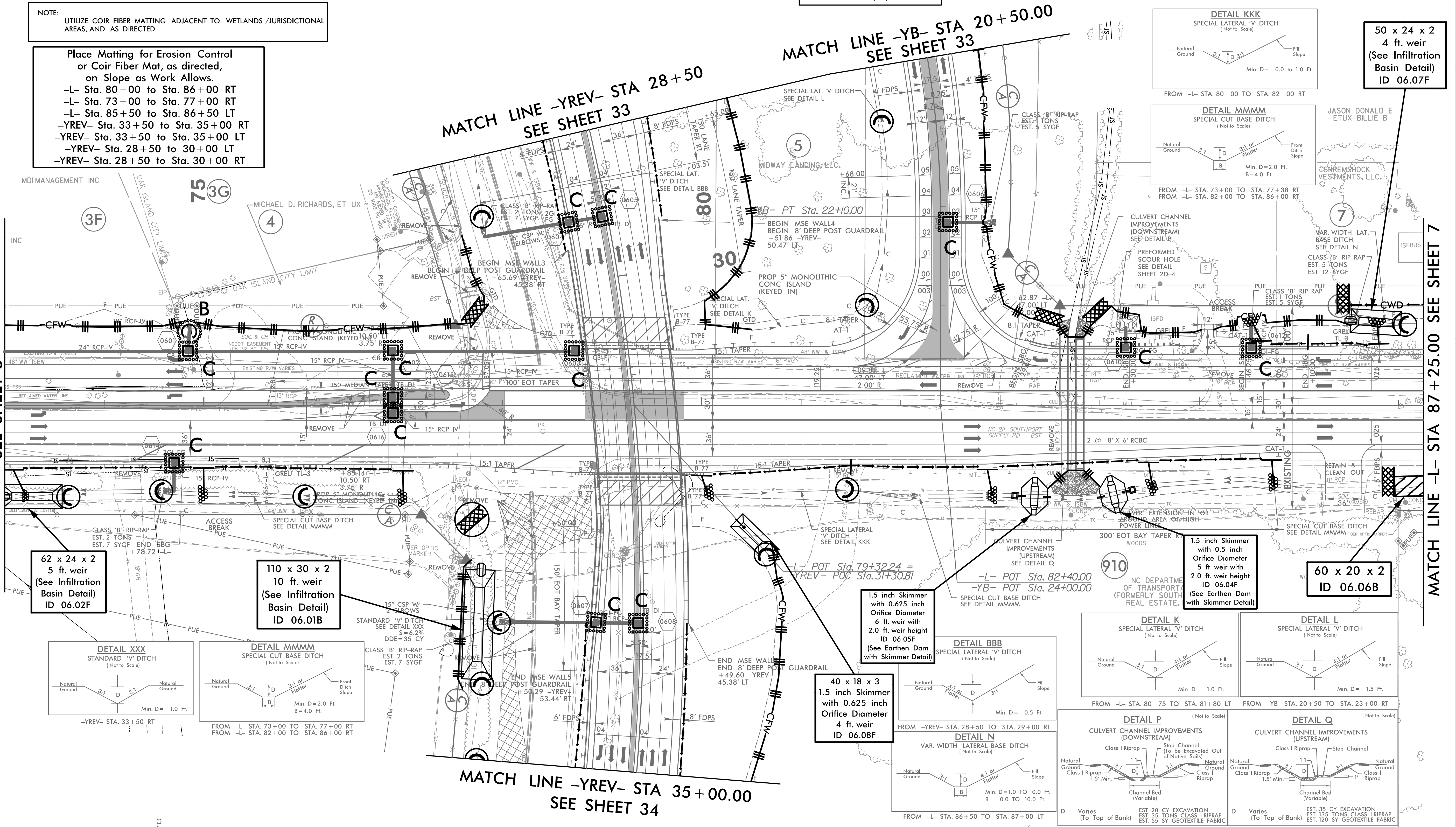
50 x 24 x 2
 4 ft. weir
 (See Infiltration Basin Detail)
 ID 06.07F



JASON DONALD E
 ETUX BILLIE B

MATCH LINE -L- STA 73+00.00
 SEE SHEET 5

MATCH LINE -L- STA 87+25.00 SEE SHEET 7



62 x 24 x 2
 5 ft. weir
 (See Infiltration Basin Detail)
 ID 06.02F

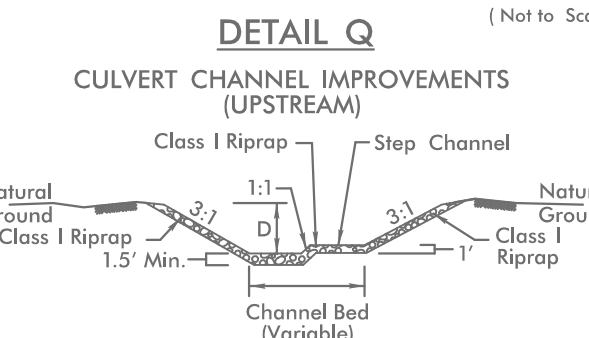
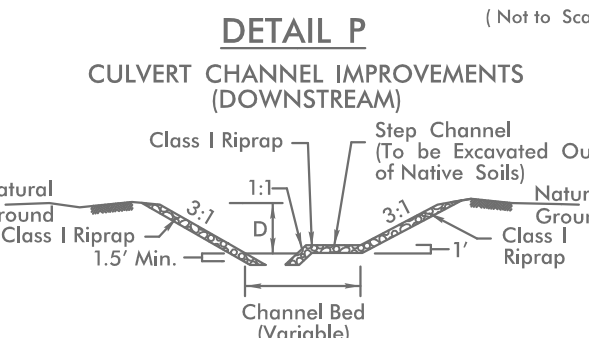
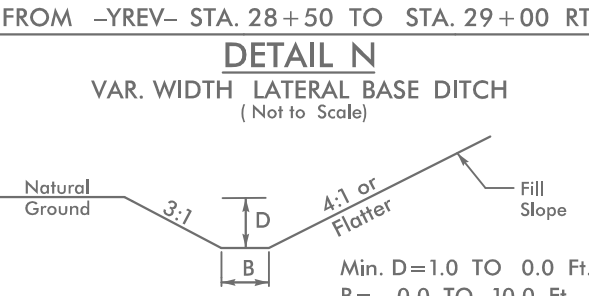
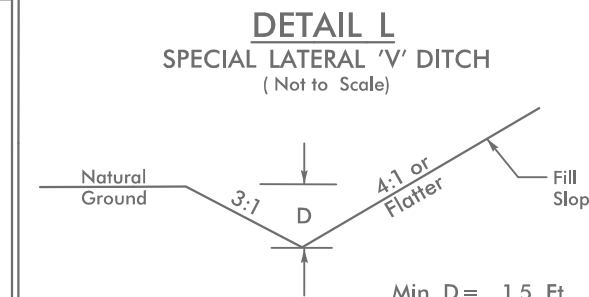
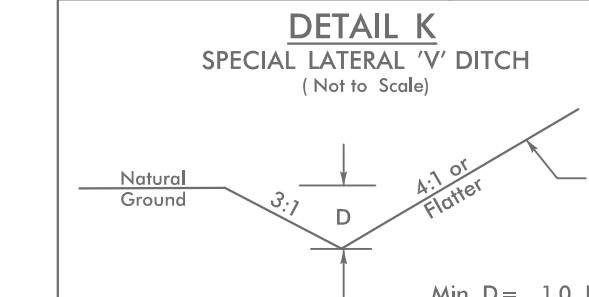
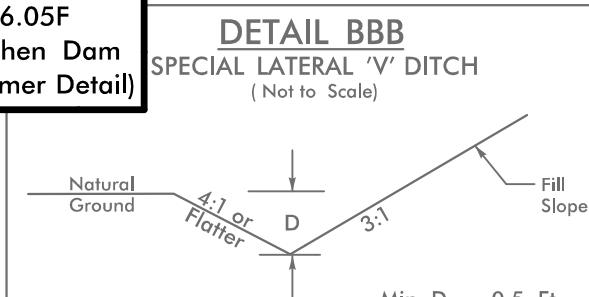
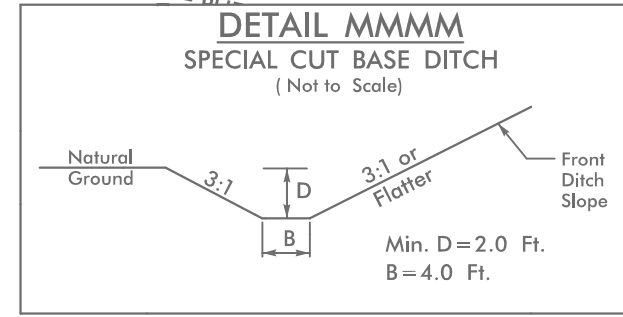
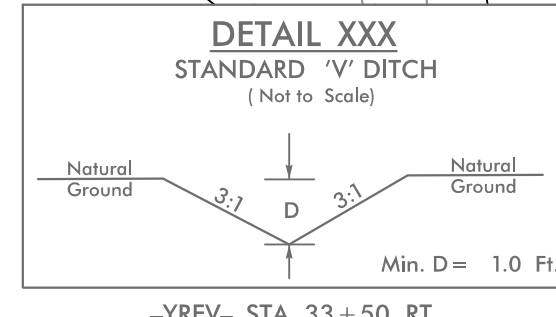
110 x 30 x 2
 10 ft. weir
 (See Infiltration Basin Detail)
 ID 06.01B

1.5 inch Skimmer
 with 0.625 inch
 Orifice Diameter
 6 ft. weir with
 2.0 ft. weir height
 ID 06.05F
 (See Earthen Dam
 with Skimmer Detail)

1.5 inch Skimmer
 with 0.5 inch
 Orifice Diameter
 5 ft. weir with
 2.0 ft. weir height
 ID 06.04F
 (See Earthen Dam
 with Skimmer Detail)

60 x 20 x 2
 ID 06.06B

40 x 18 x 3
 1.5 inch Skimmer
 with 0.625 inch
 Orifice Diameter
 4 ft. weir
 ID 06.08F

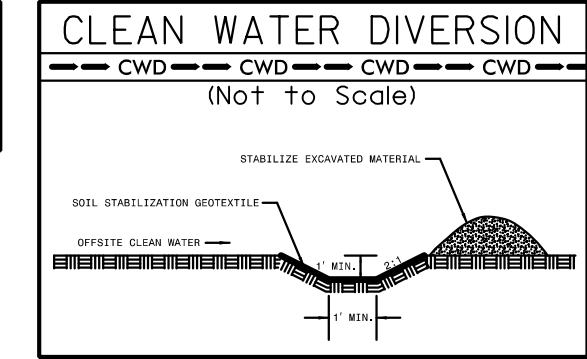


MATCH LINE -YREV- STA 35+00.00
 SEE SHEET 34

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
	EC-44/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE: UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS /JURISDICTIONAL AREAS, AND AS DIRECTED



20
PINE FOREST DEVELOPMENT COMPANY

QUAINTANCE, INC

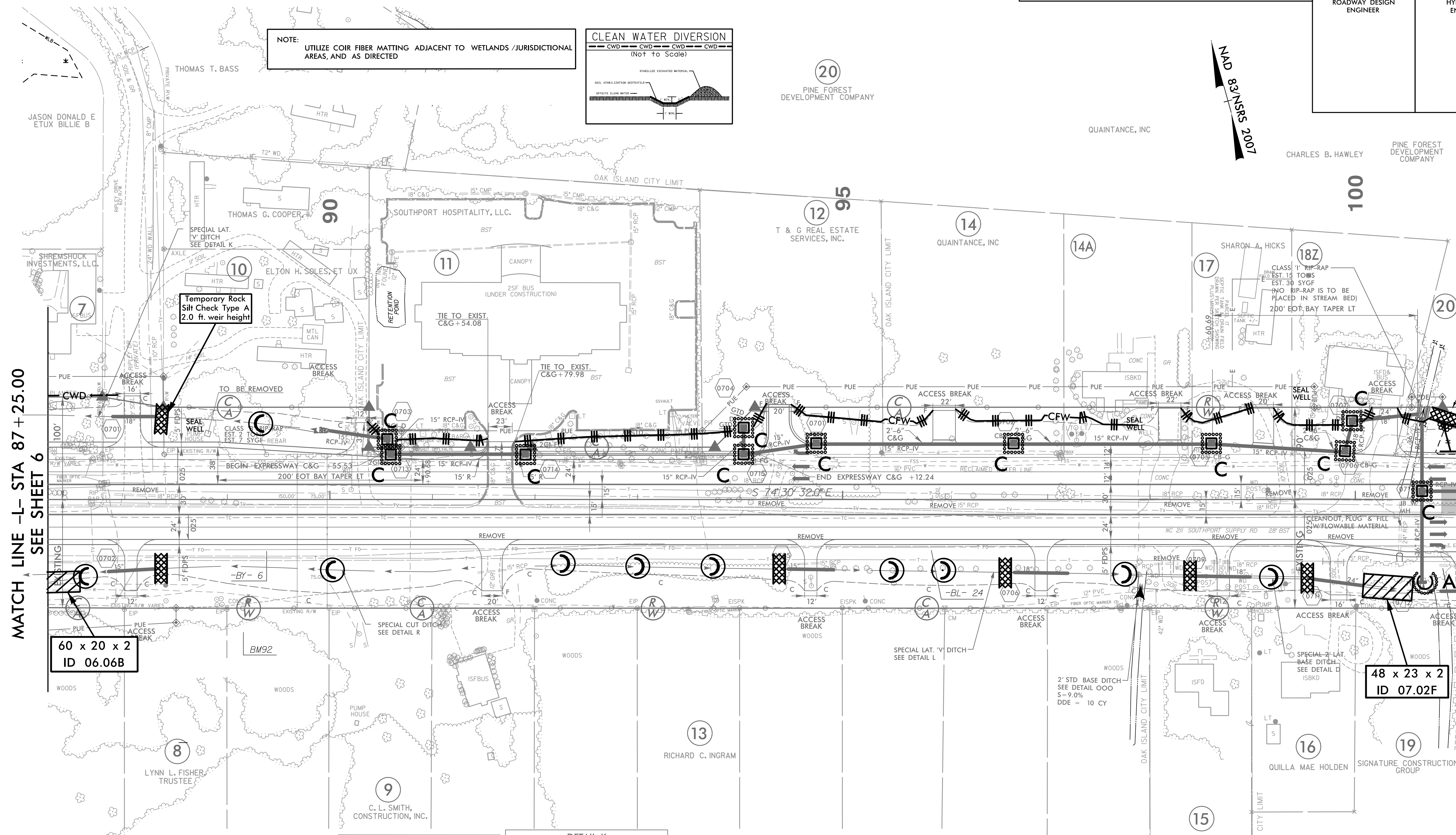
MAP 83/NSRS 2007

CHARLES B. HAWLEY

PINE FOREST DEVELOPMENT COMPANY

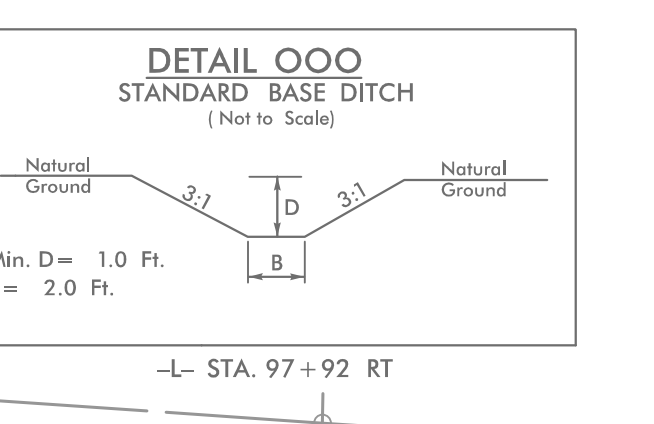
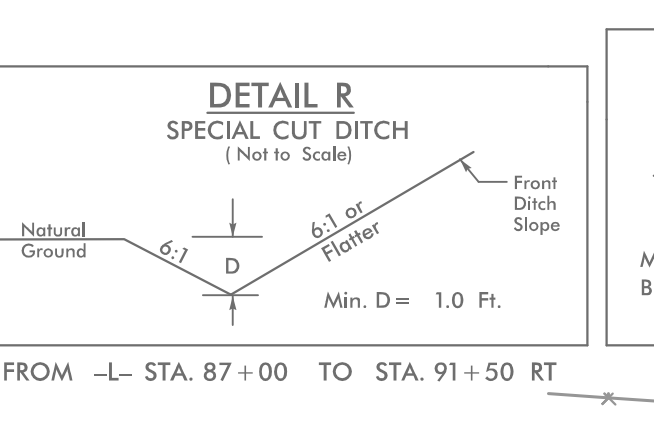
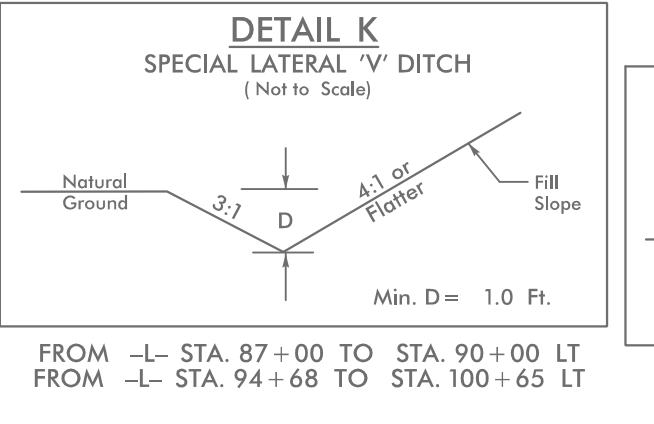
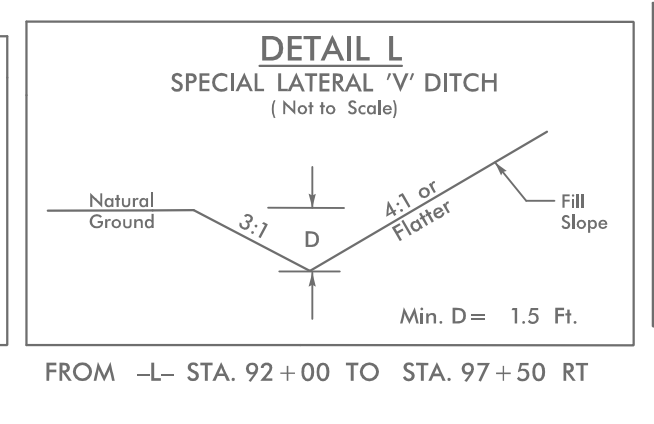
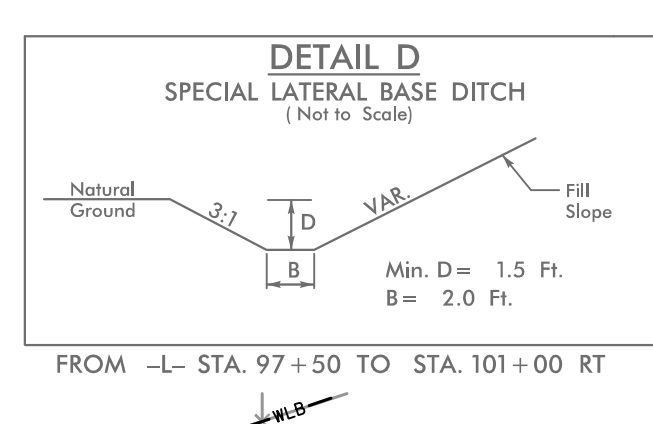
MATCH LINE -L- STA 87+25.00
SEE SHEET 6

MATCH LINE -L- STA 101+00.00
SEE SHEET 8



60 x 20 x 2
ID 06.06B

48 x 23 x 2
ID 07.02F



4/24/2021 EC_PSH7.dgn

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-5021	EC-45/CONST.B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

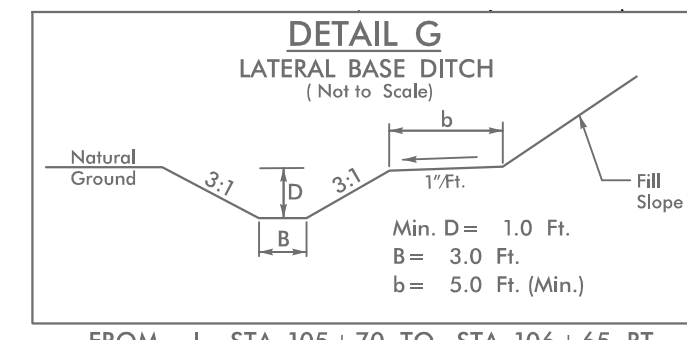
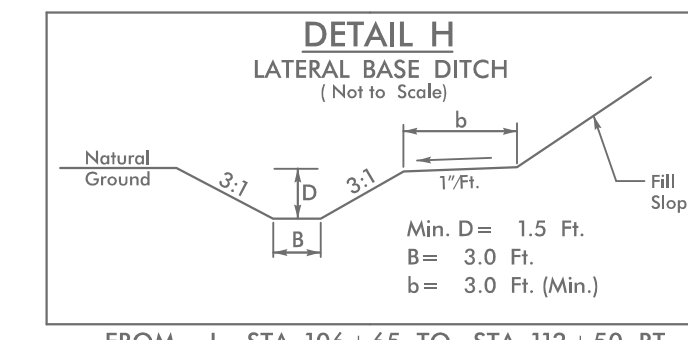
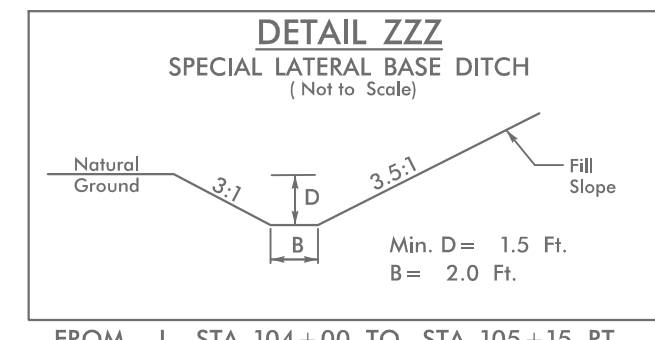
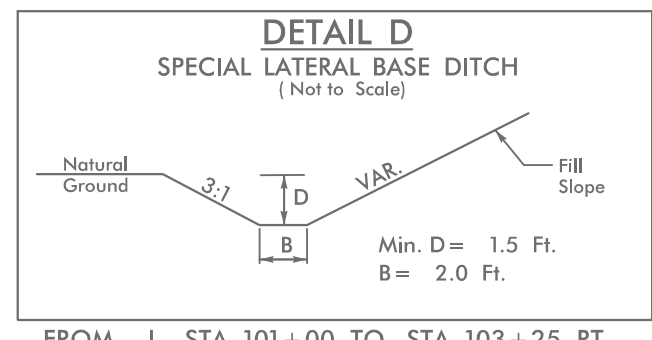
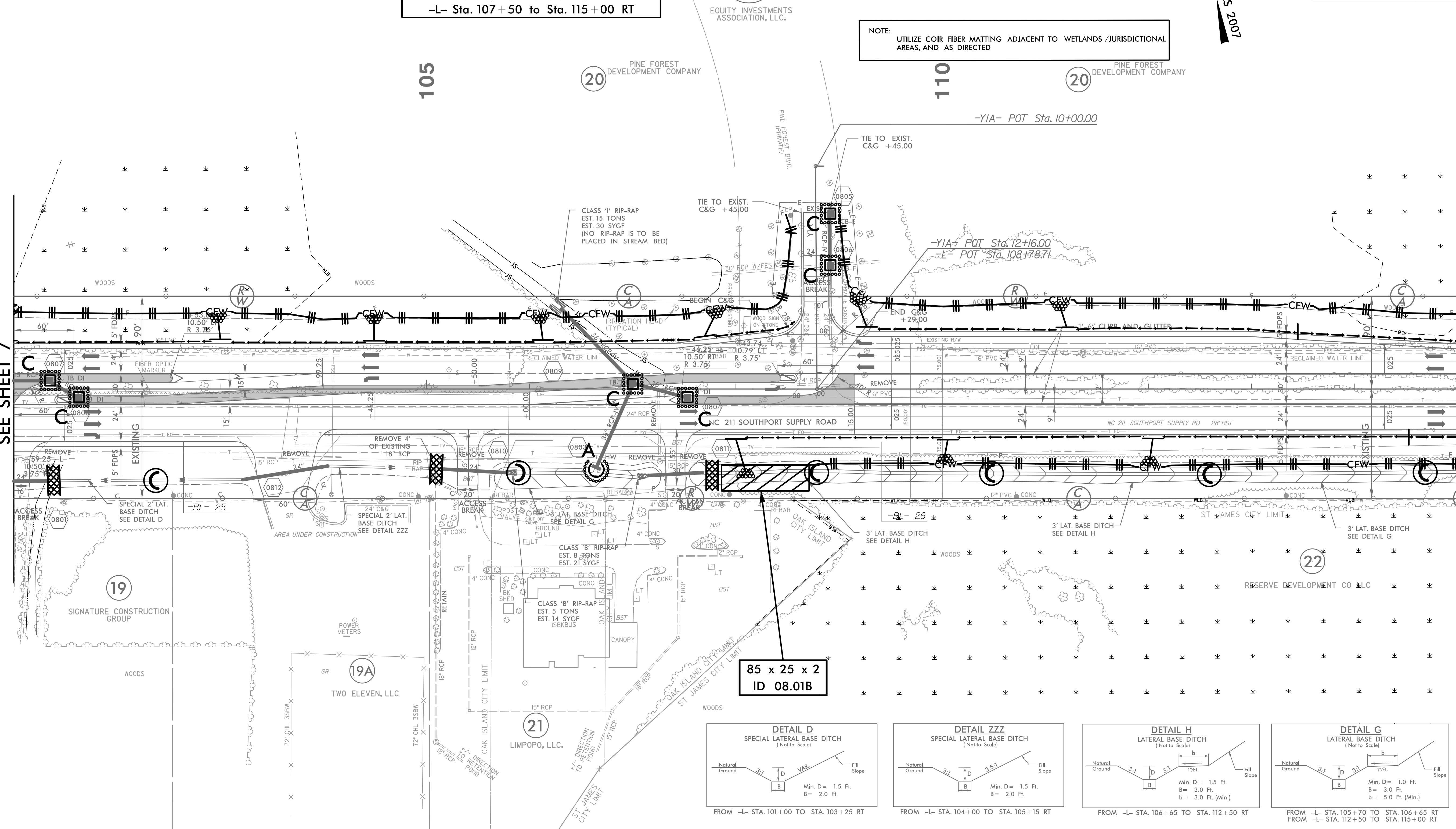
Place Matting for Erosion Control
 or Coir Fiber Mat, as directed,
 on Slope as Work Allows.
 -L- Sta. 101+00 to Sta. 107+00 LT
 -L- Sta. 109+50 to Sta. 115+00 LT
 -L- Sta. 107+50 to Sta. 115+00 RT

NOTE:
 UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS / JURISDICTIONAL
 AREAS, AND AS DIRECTED

NAD 83/NSRS 2007

MATCH LINE -L- STA 101+00.00
 SEE SHEET 7

MATCH LINE -L- STA 115+00.00
 SEE SHEET 9



11/2/2008 L.E.C._PSH8.dgn

5/14/99

NOTE: UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS / JURISDICTIONAL AREAS, AND AS DIRECTED

HNTB HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

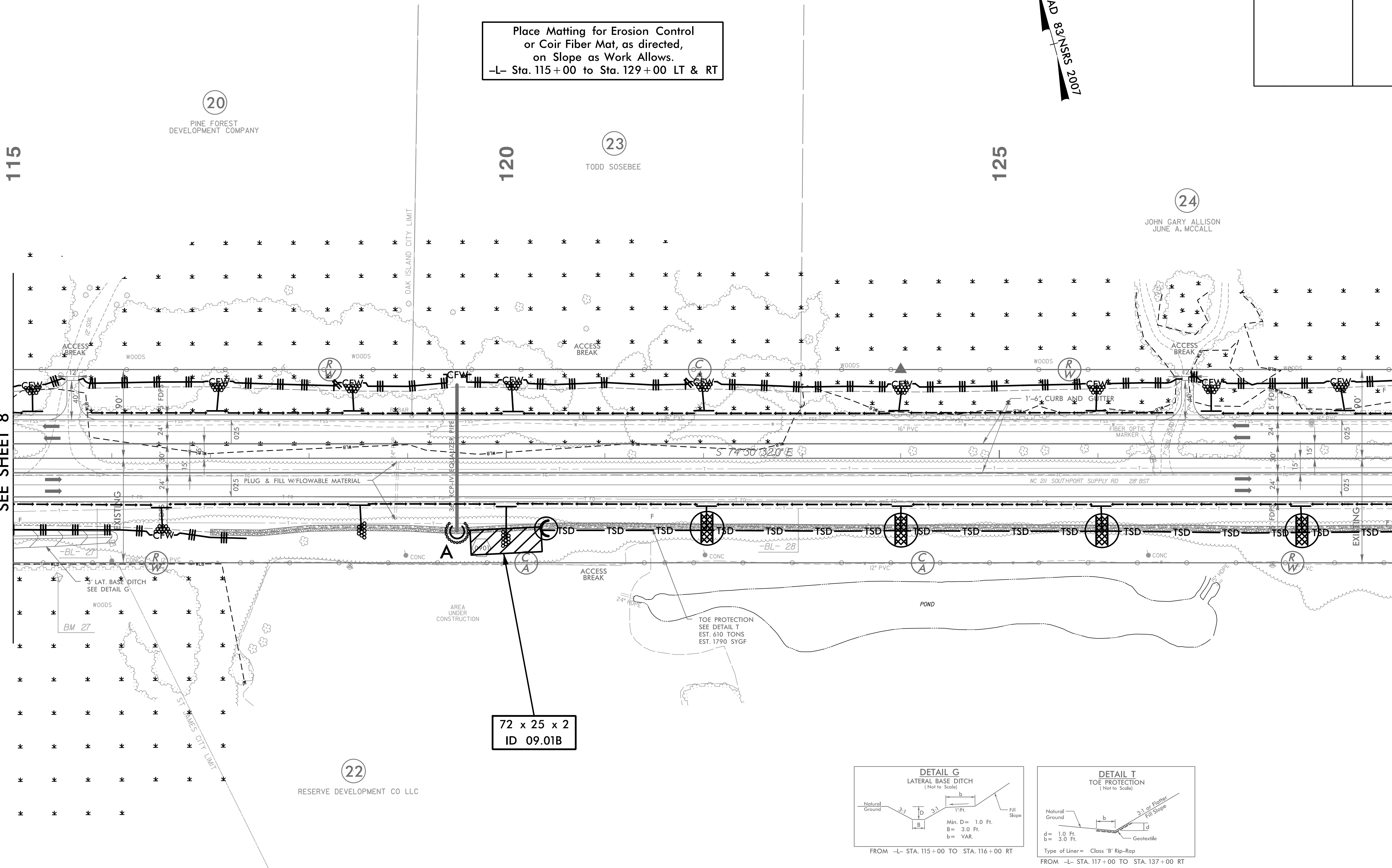
PROJECT REFERENCE NO.	SHEET NO.
R-5021	EC-46/CONST.9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Place Matting for Erosion Control
or Coir Fiber Mat, as directed,
on Slope as Work Allows.
-L- Sta. 115+00 to Sta. 129+00 LT & RT

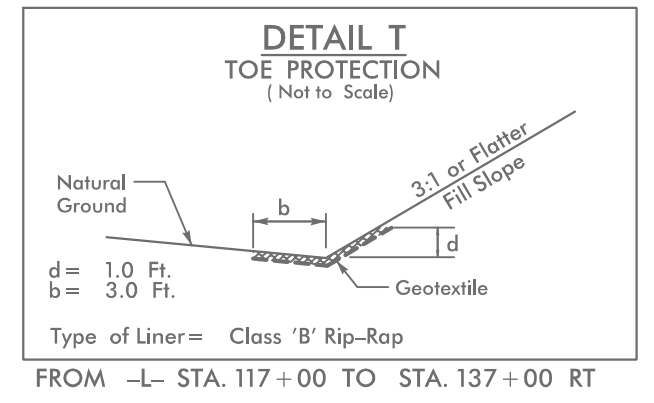
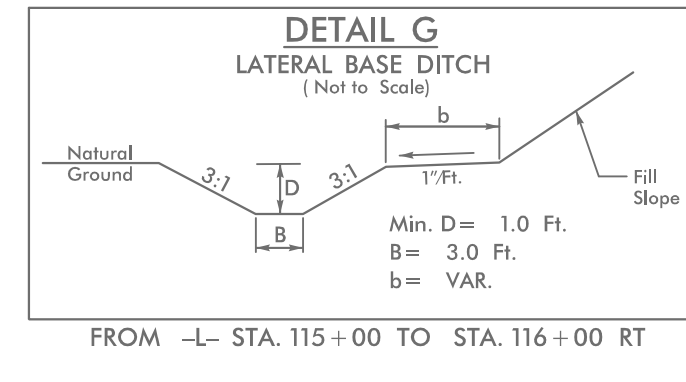
NAD 83 N/SRS 2007

115
MATCH LINE -L- STA 115+00.00
SEE SHEET 8

MATCH LINE -L- STA 129+00.00
SEE SHEET 10



72 x 25 x 2
ID 09.01B



5/17/2021 EC_PSH9.dgn

5/14/99

HNTB HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
R-5021	EC-47/CONST.10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

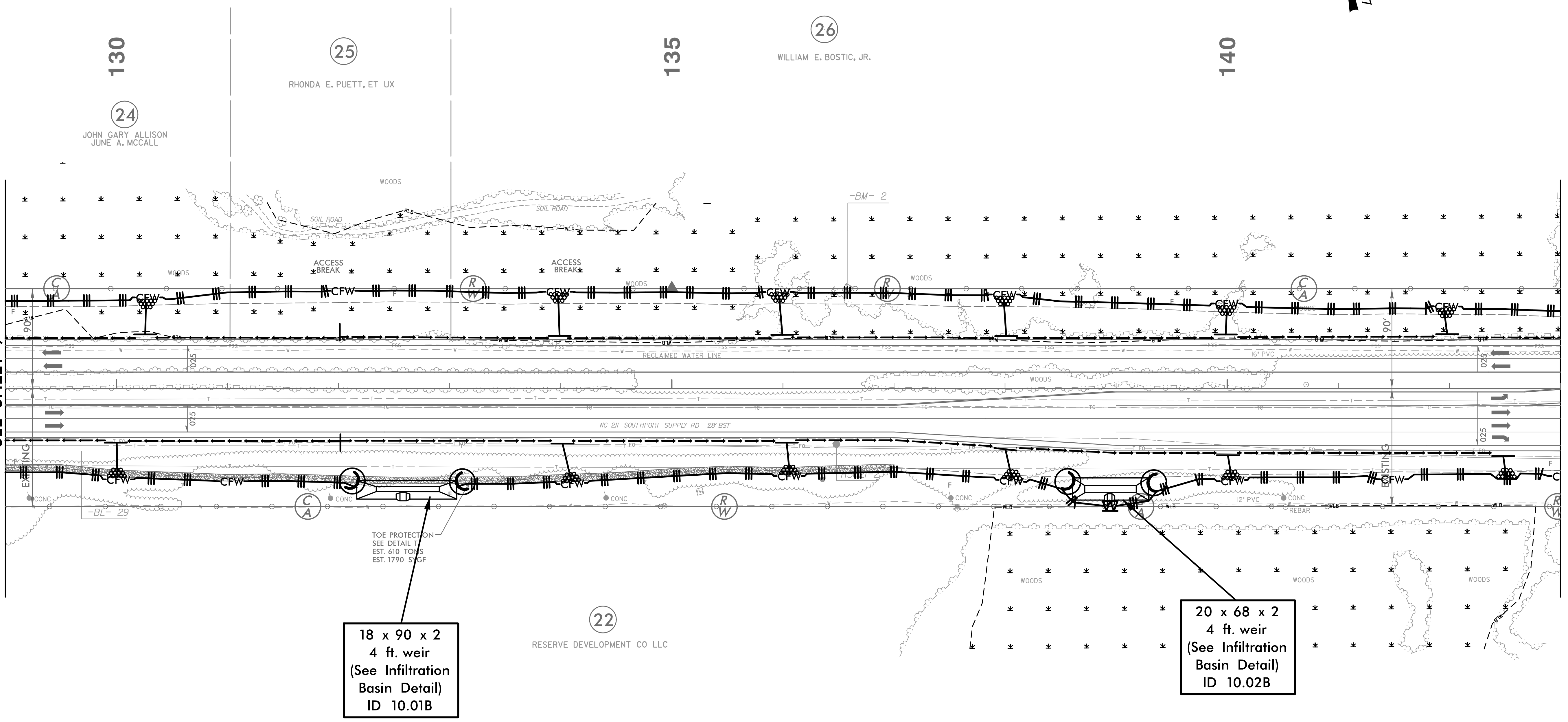
NOTE: UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS /JURISDICTIONAL AREAS, AND AS DIRECTED

Place Matting for Erosion Control or Coir Fiber Mat, as directed, on Slope as Work Allows.
-L- Sta. 129+00 to Sta. 143+00 LT
-L- Sta. 129+00 to Sta. 142+50 RT

NAD 83 NSRS 2007

MATCH LINE -L- STA 129 + 00.00
SEE SHEET 9

MATCH LINE -L- STA 143 + 00.00
SEE SHEET 11



5/17/2021 EC_PSH10.dgn

5/14/99

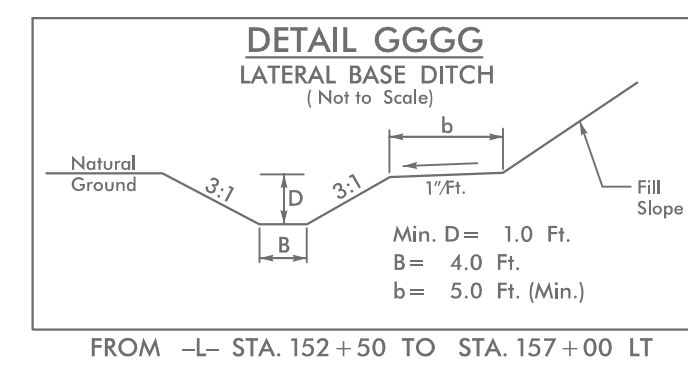
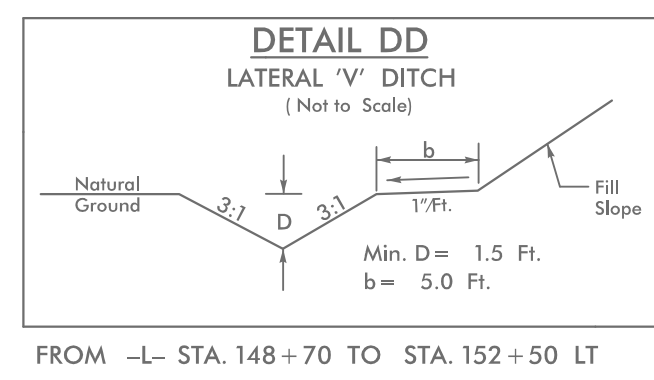
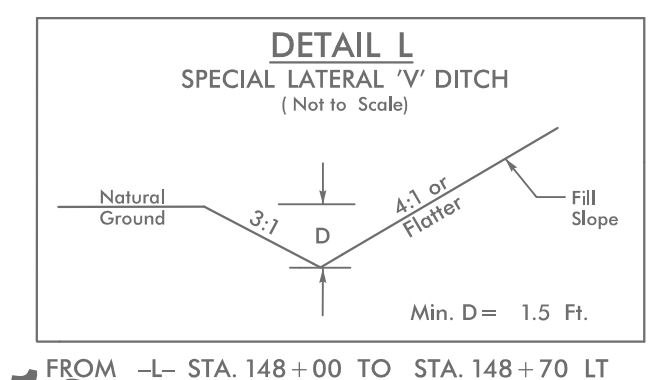
BEGIN CONSTRUCTION
-YIC- Sta. 10+00.00

-YIC- POT Sta. 9+00.00

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PROJECT REFERENCE NO.	SHEET NO.
R-5021	EC-48/CONST.II
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

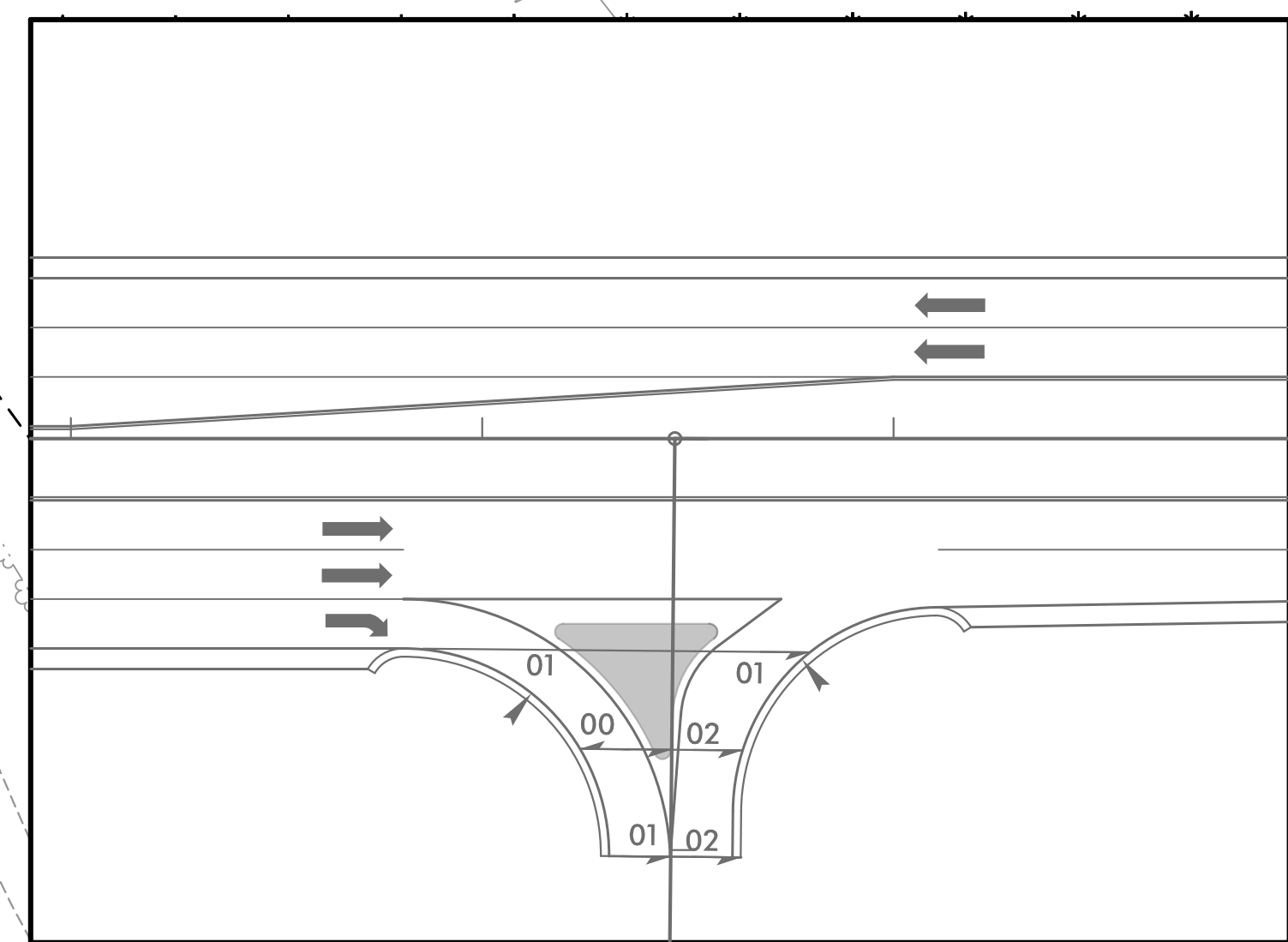
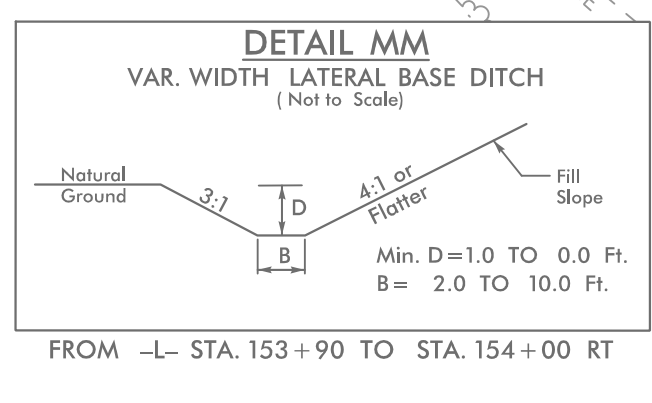
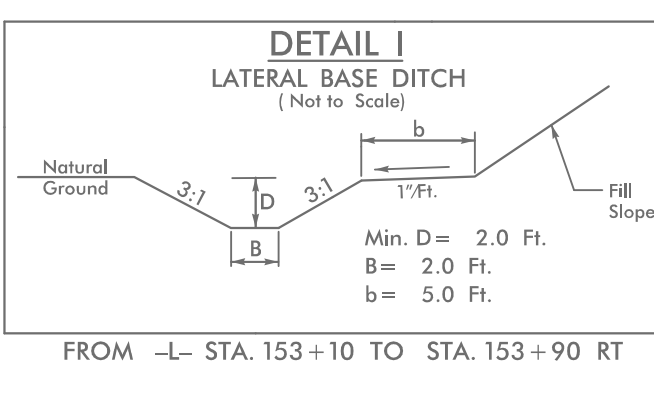
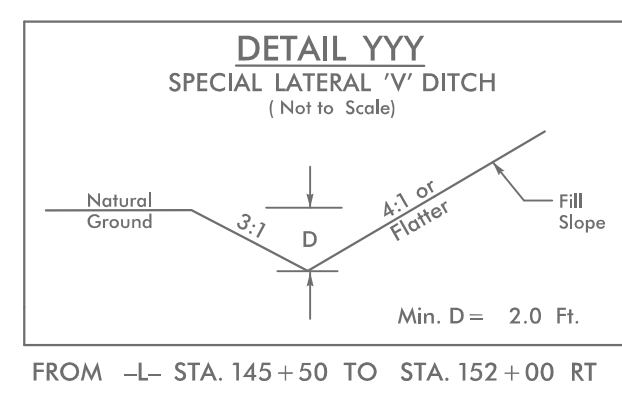
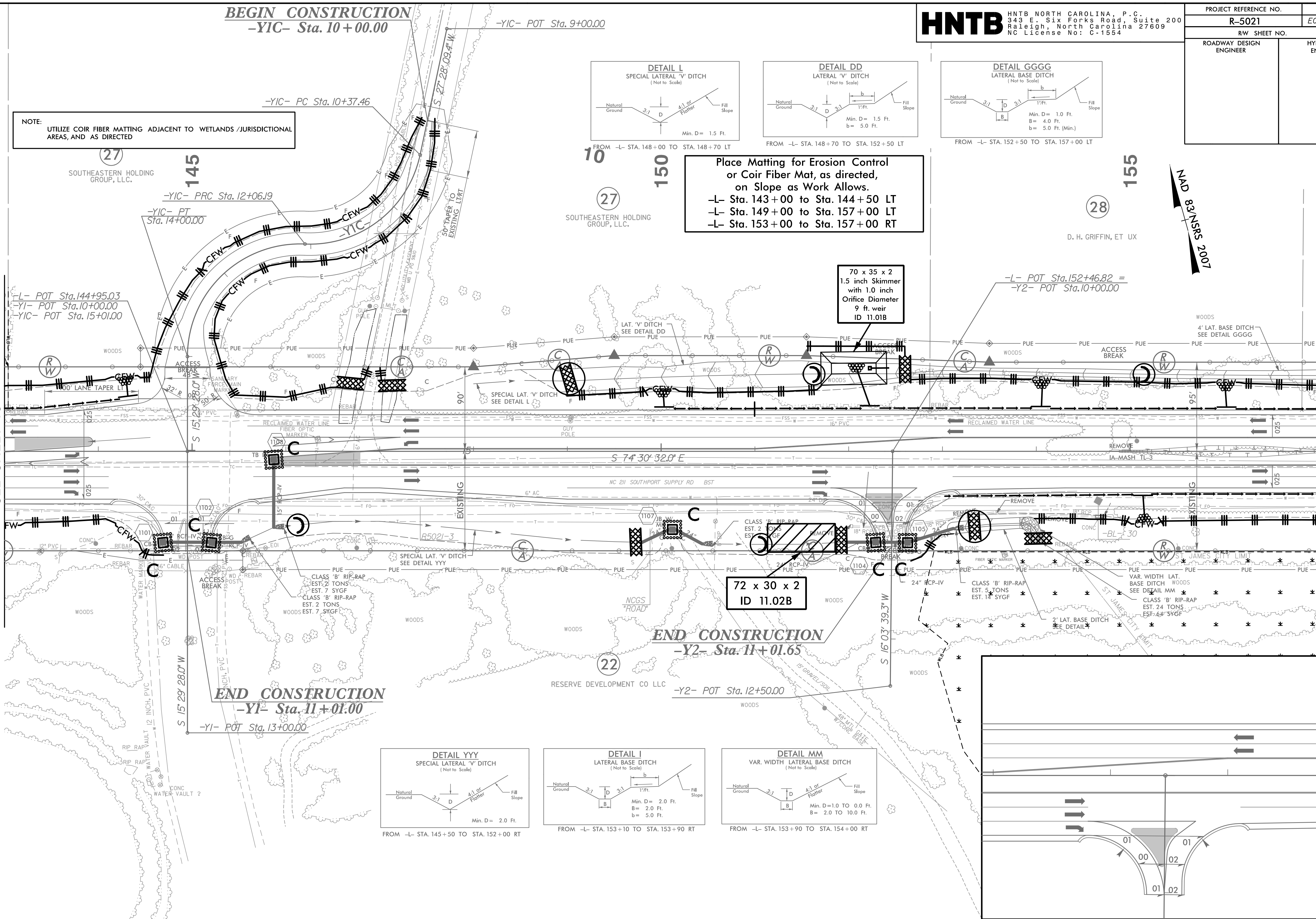
NOTE:
UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS / JURISDICTIONAL AREAS, AND AS DIRECTED



Place Matting for Erosion Control
or Coir Fiber Mat, as directed,
on Slope as Work Allows.
-L- Sta. 143+00 to Sta. 144+50 LT
-L- Sta. 149+00 to Sta. 157+00 LT
-L- Sta. 153+00 to Sta. 157+00 RT

MATCH LINE -L- STA 143+00.00
SEE SHEET 10

MATCH LINE -L- STA 157+00.00
SEE SHEET 12



5/17/2021_EC_PSH11.dgn

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-5021	EC-49/CONST.12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

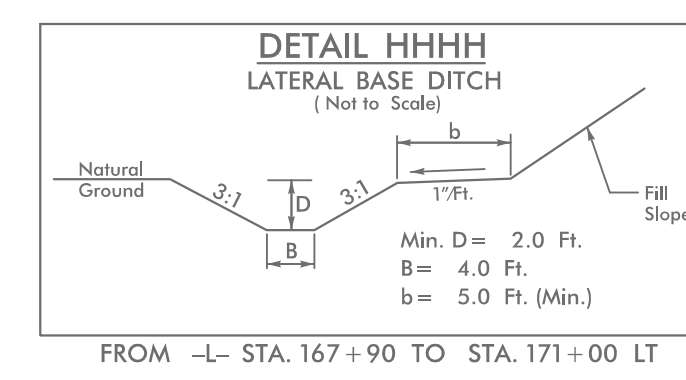
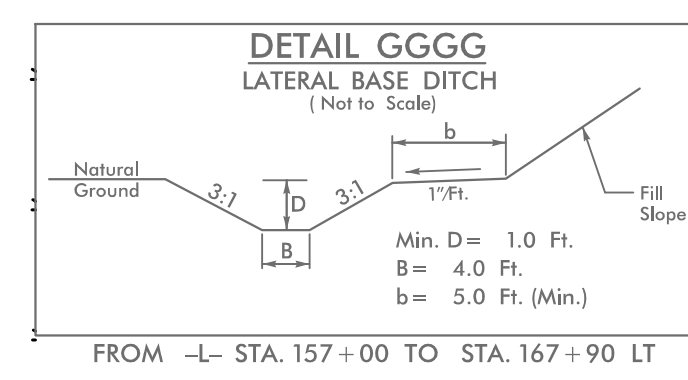
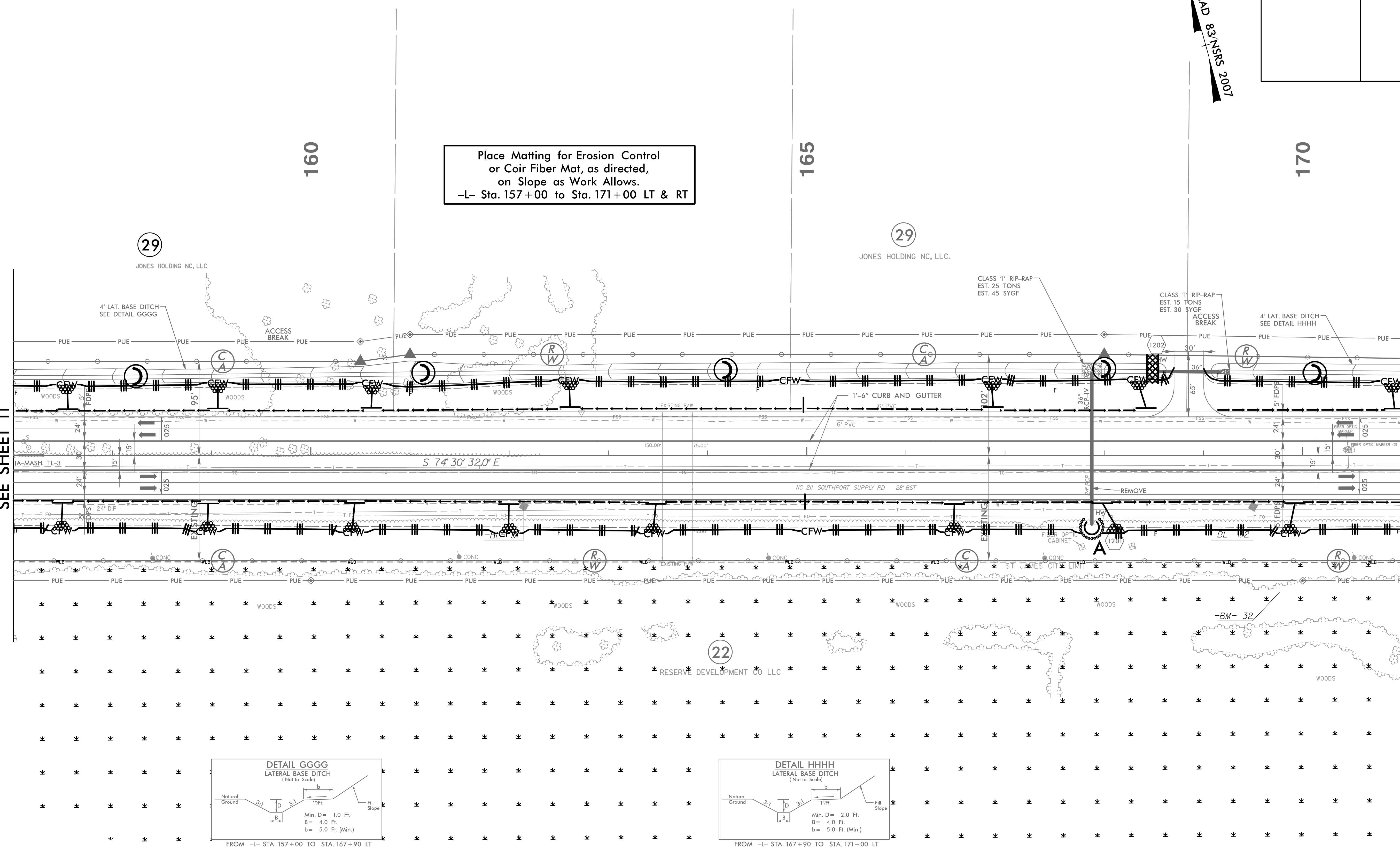
NOTE: UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS /JURISDICTIONAL AREAS, AND AS DIRECTED

Place Matting for Erosion Control or Coir Fiber Mat, as directed, on Slope as Work Allows.
 -L- Sta. 157+00 to Sta. 171+00 LT & RT

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MATCH LINE -L- STA 157+00.00
 SEE SHEET 11

MATCH LINE -L- STA 171+00.00
 SEE SHEET 13



5/14/2021 EC_PSH12.dgn

5/14/99

NOTE:
UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS /JURISDICTIONAL
AREAS, AND AS DIRECTED

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PROJECT REFERENCE NO.	SHEET NO.
R-5021	EC-50/CONST.3
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Place Matting for Erosion Control
or Coir Fiber Mat, as directed,
on Slope as Work Allows.
-L- Sta. 171+00 to Sta. 185+00 LT & RT

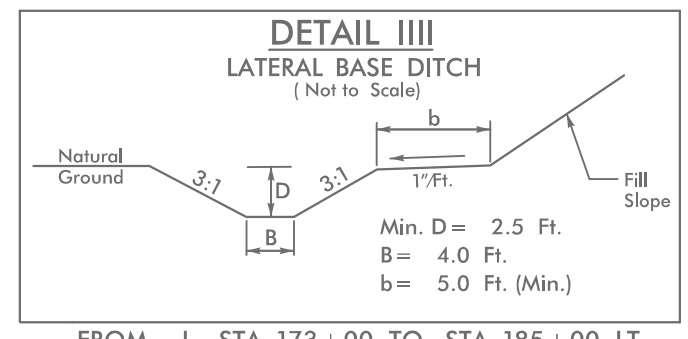
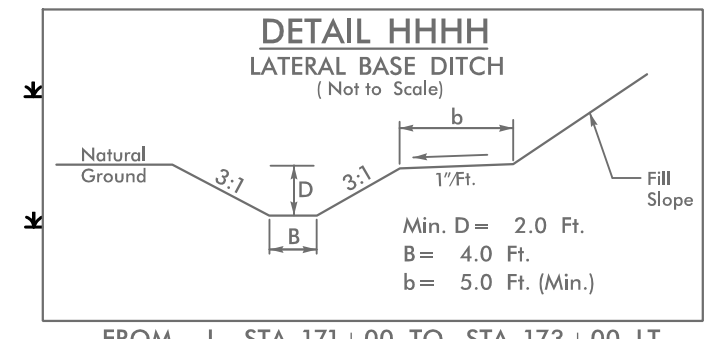
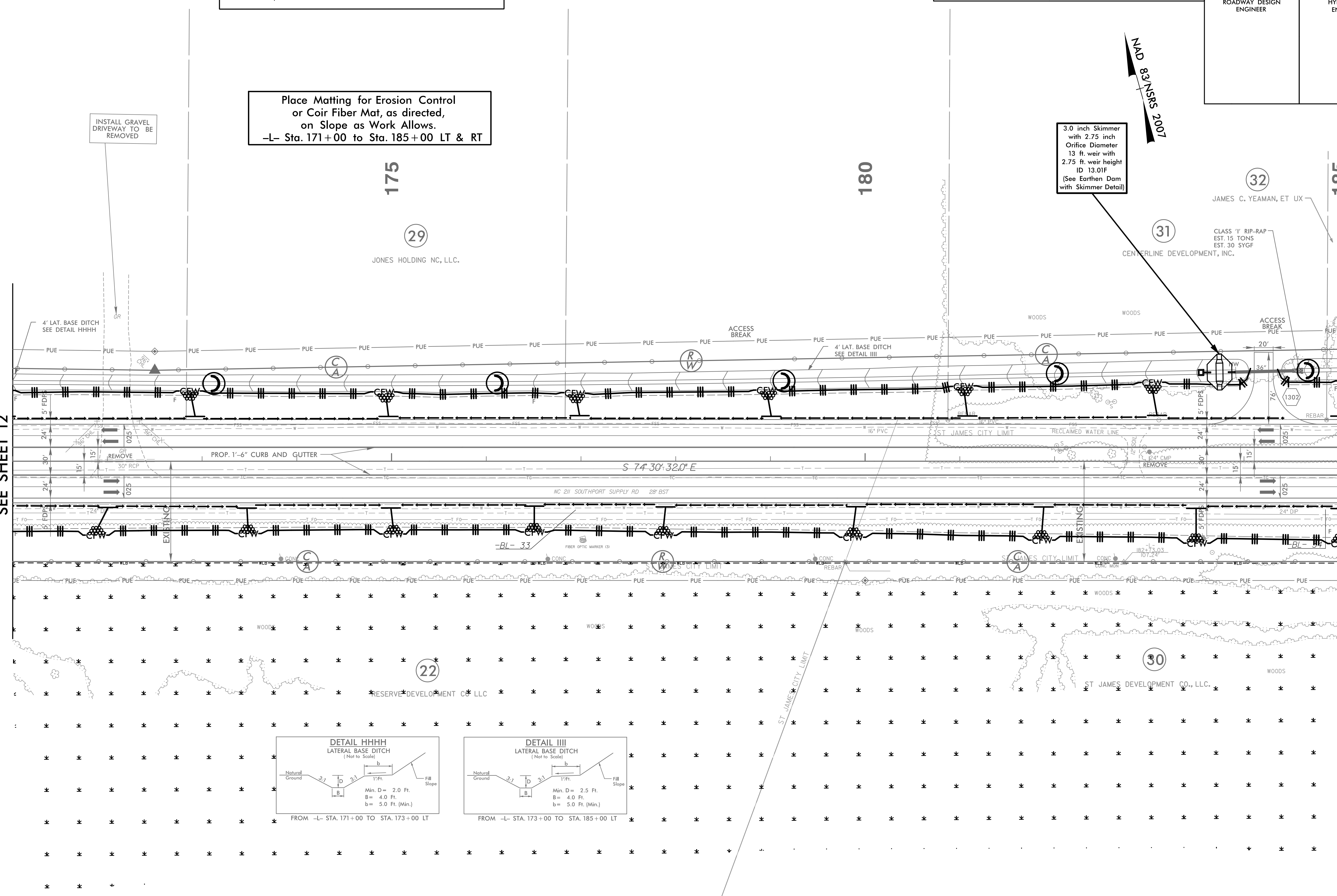
INSTALL GRAVEL
DRIVEWAY TO BE
REMOVED

3.0 inch Skimmer
with 2.75 inch
Orifice Diameter
13 ft. weir with
2.75 ft. weir height
ID 13.01F
(See Earthen Dam
with Skimmer Detail)

NAD 83 NSRS 2007

MATCH LINE -L- STA 171+00.00
SEE SHEET 12

MATCH LINE -L- STA 185+00.00
SEE SHEET 14



5/14/2021_EC_PSH13.dgn

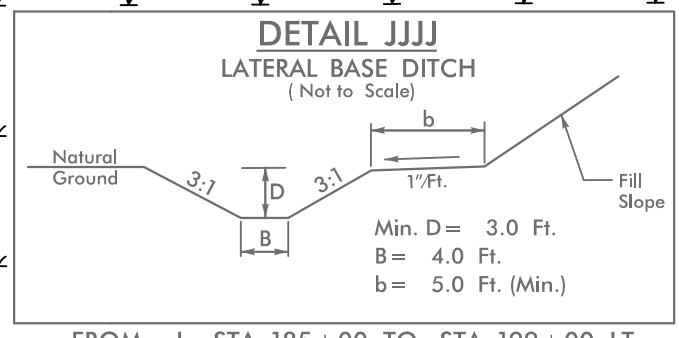
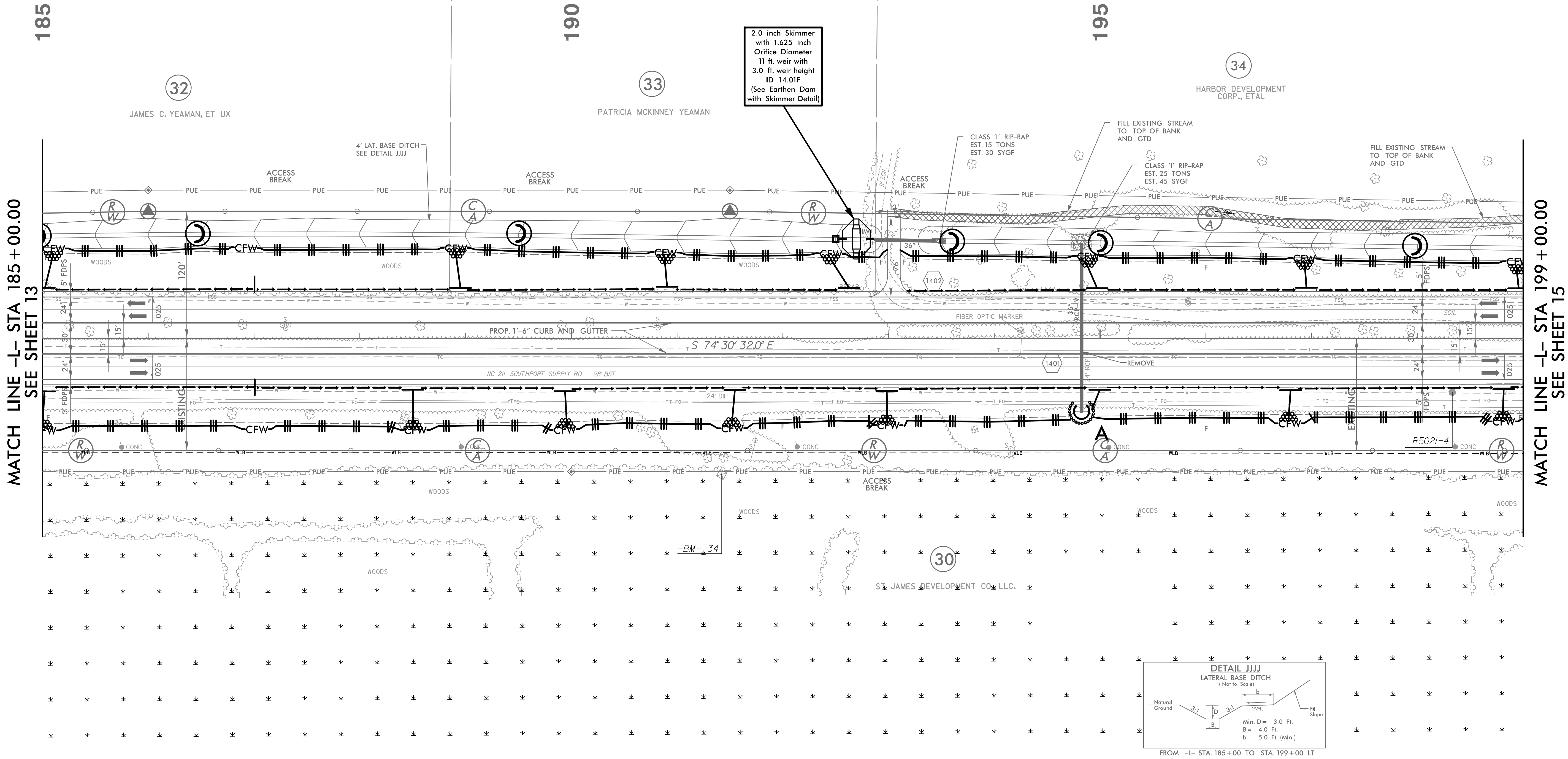
PROJECT REFERENCE NO.		SHEET NO.	
R-5021		EC-51/CONST.14	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

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 Raleigh, North Carolina 27609
 NC License No: C-1554

NOTE: UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS / JURISDICTIONAL AREAS, AND AS DIRECTED

Place Matting for Erosion Control
 or Coir Fiber Mat, as directed,
 on Slope as Work Allows.
 -L- Sta. 185+00 to Sta. 199+00 LT & RT

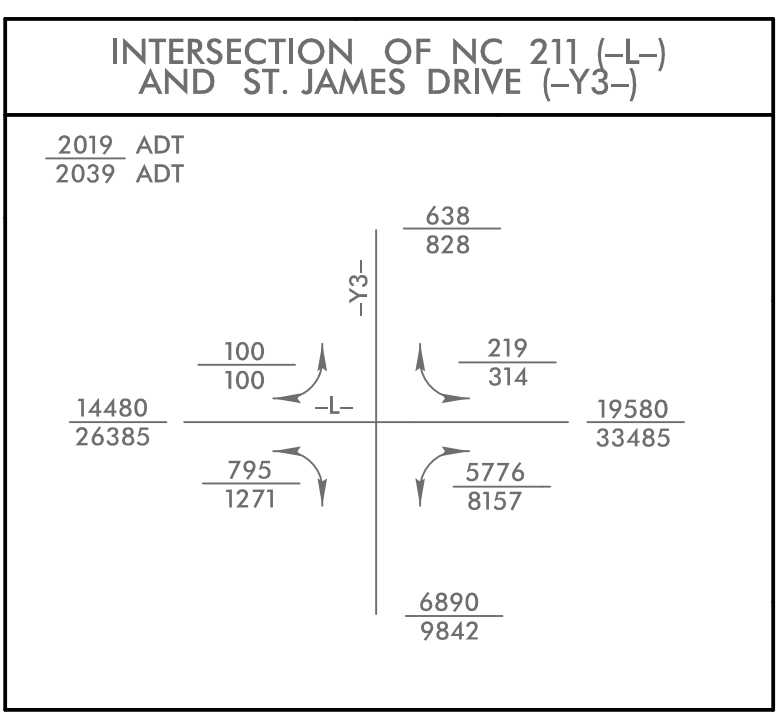
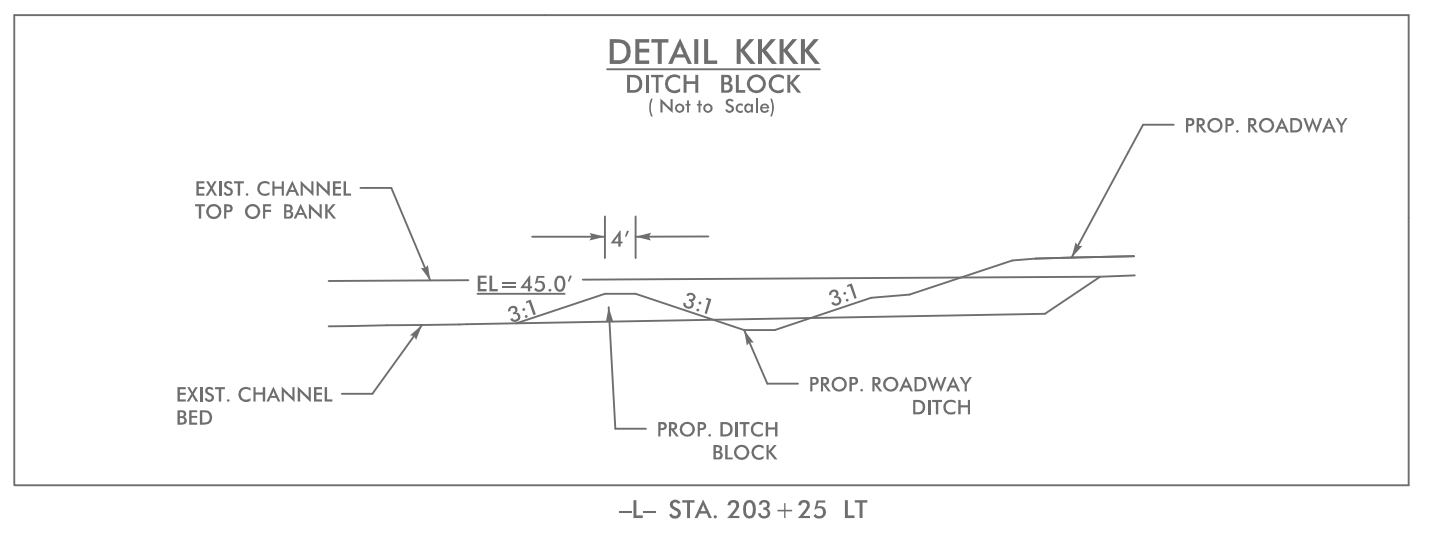
NAD
 83/NSRS 2007



FROM -L- STA. 185+00 TO STA. 199+00 LT

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NOTE: UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS / JURISDICTIONAL AREAS, AND AS DIRECTED



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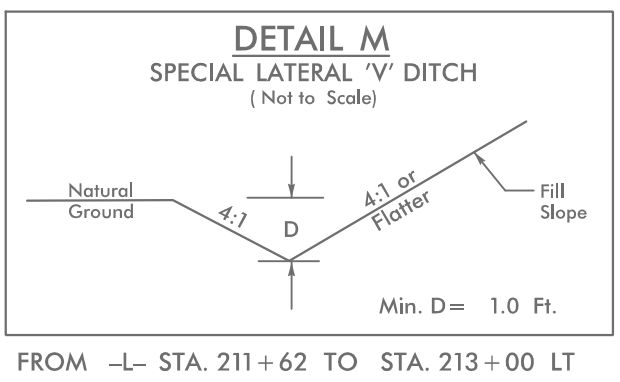
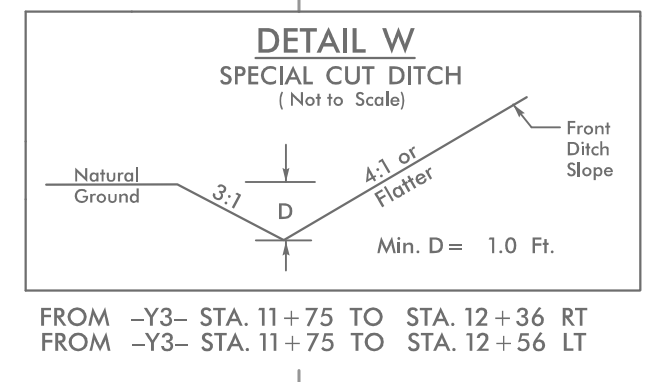
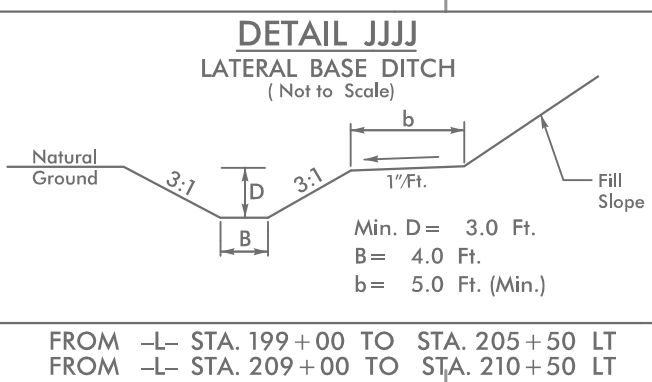
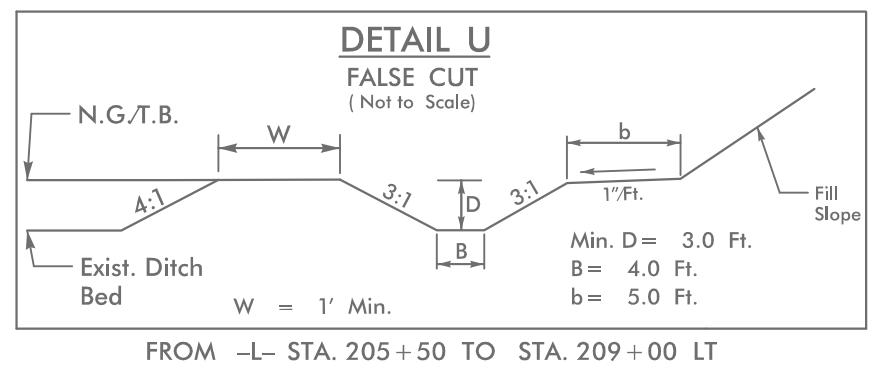
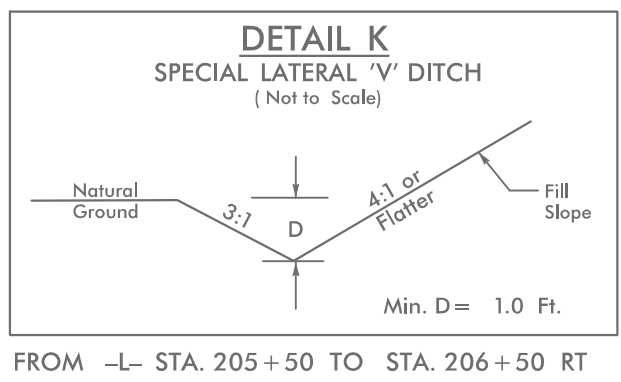
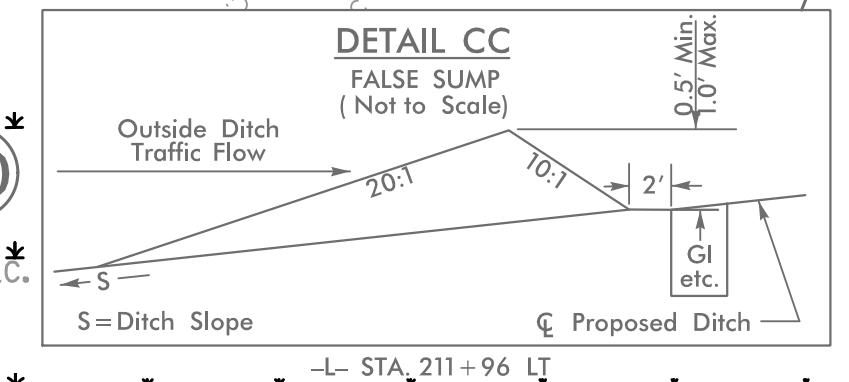
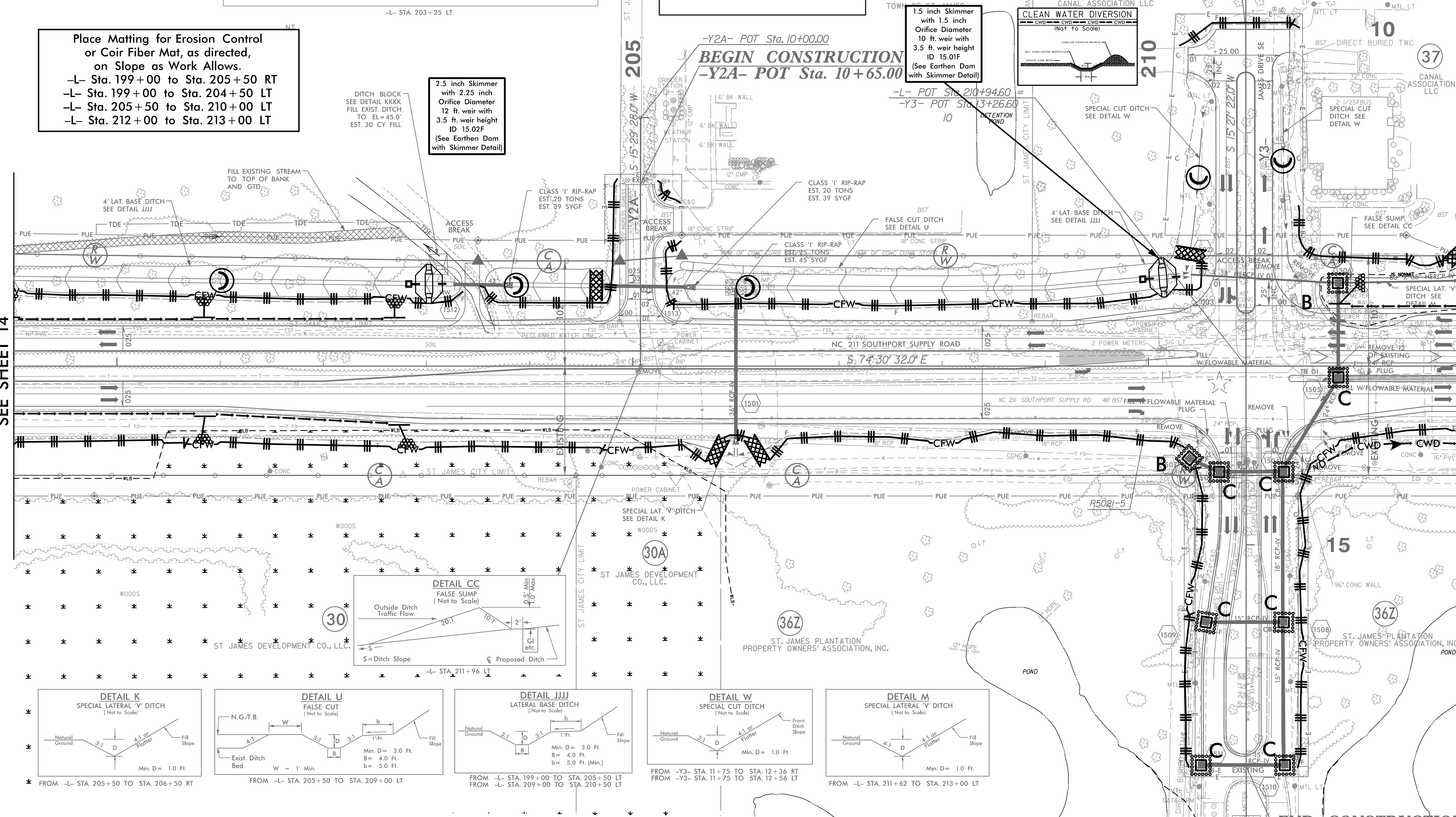
PROJECT REFERENCE NO.	SHEET NO.
R-5021	EC-52/CONST.15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Place Matting for Erosion Control or Coir Fiber Mat, as directed, on Slope as Work Allows.

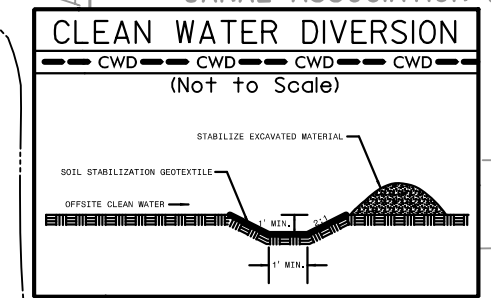
- L- Sta. 199+00 to Sta. 205+50 RT
- L- Sta. 199+00 to Sta. 204+50 LT
- L- Sta. 205+50 to Sta. 210+00 LT
- L- Sta. 212+00 to Sta. 213+00 LT

2.5 inch Skimmer with 2.25 inch Orifice Diameter 12 ft. weir with 3.5 ft. weir height ID 15.02F (See Earthen Dam with Skimmer Detail)

MATCH LINE -L- STA 199+00.00 SEE SHEET 14



1.5 inch Skimmer with 1.5 inch Orifice Diameter 10 ft. weir with 3.5 ft. weir height ID 15.01F (See Earthen Dam with Skimmer Detail)



FOR -L- PROFILE, SEE SHEET 46
 FOR -Y2A- & -Y3- PROFILES, SEE SHEET 60
 FOR INTERSECTION DETAIL, SEE SHEET 2B-1
 FOR DRAINAGE DETAILS, SEE SHEETS 2D-1 THRU 2D-3

END CONSTRUCTION -Y3- Sta. 17+15.00

MATCH LINE -L- STA 213+00.00 SEE SHEET 16

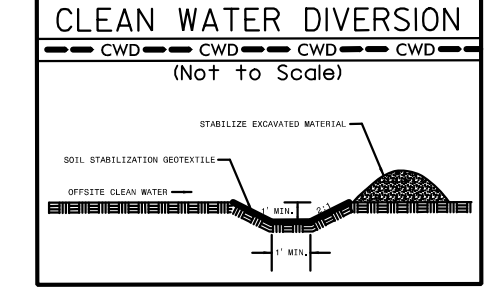
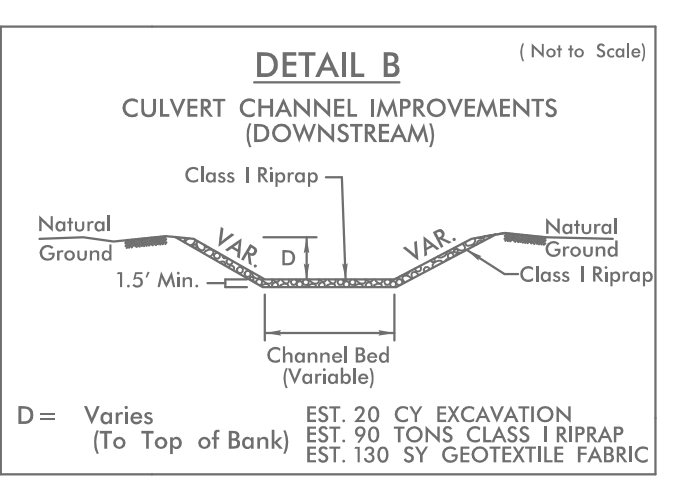
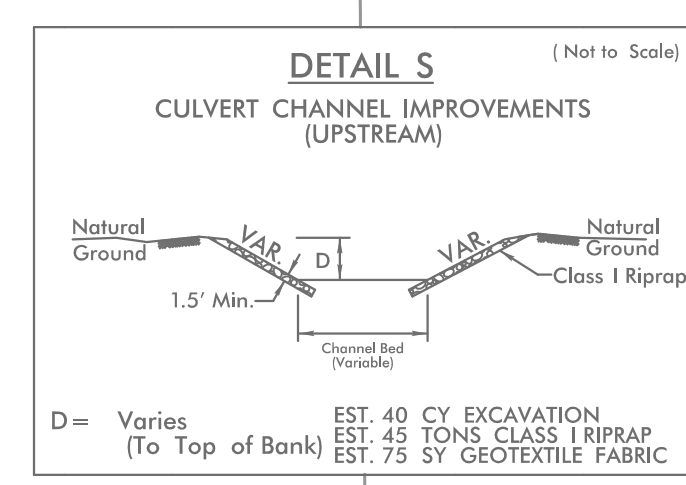
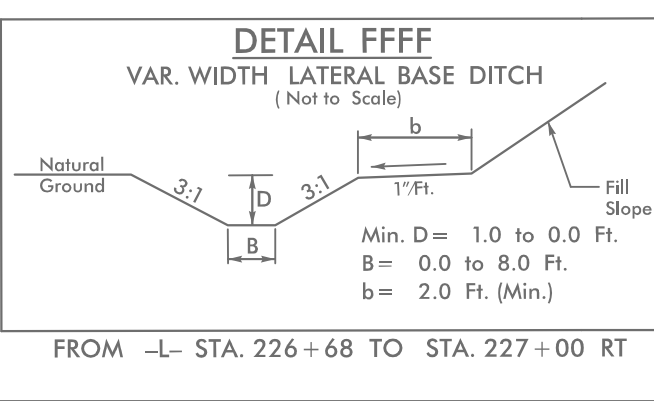
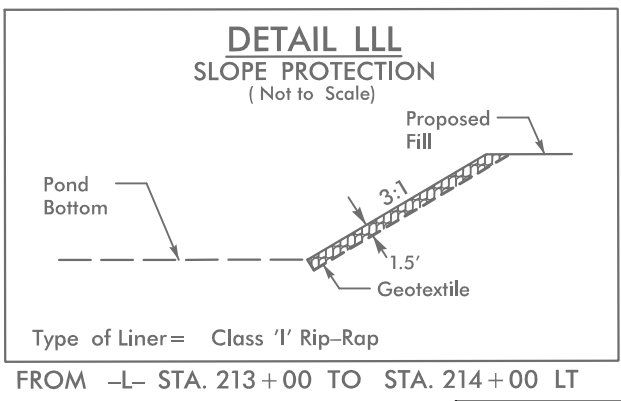
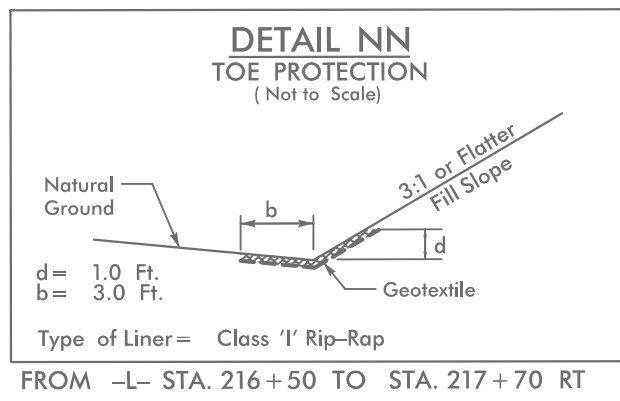
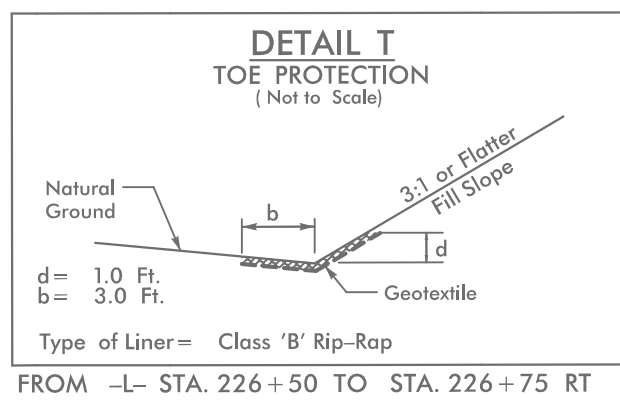
4/21/2021_EC_PSH15.dgn

5/14/99

NOTE: UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS /JURISDICTIONAL AREAS, AND AS DIRECTED

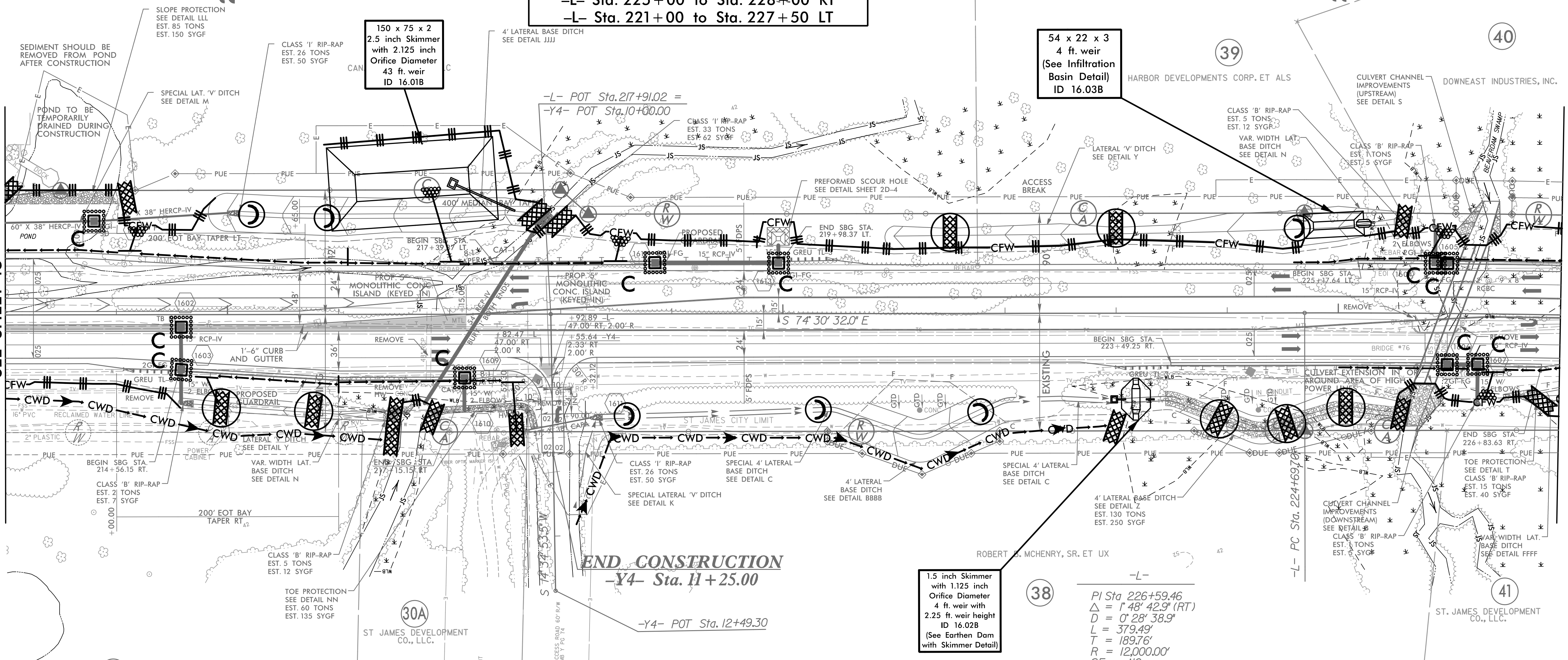
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NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
R-5021	EC-53/CONST.16
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

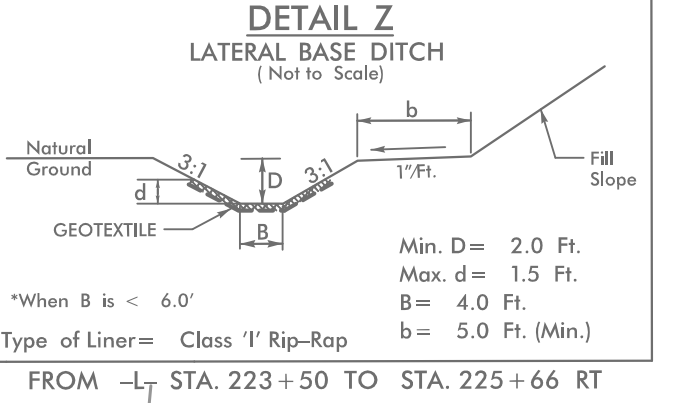
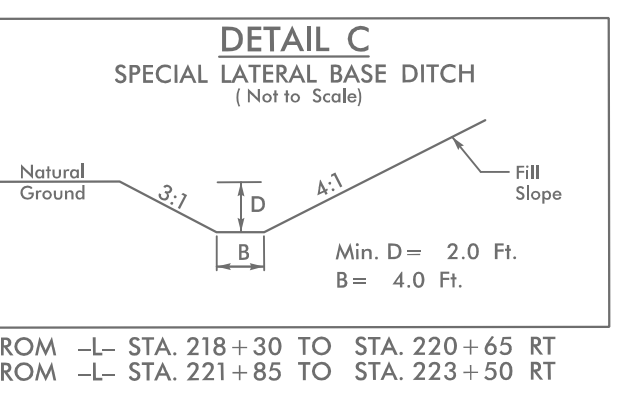
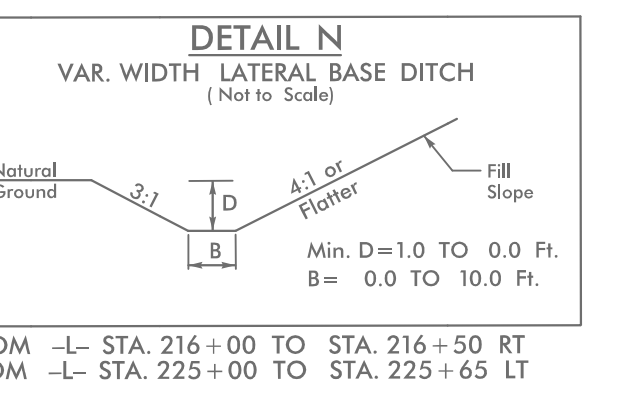
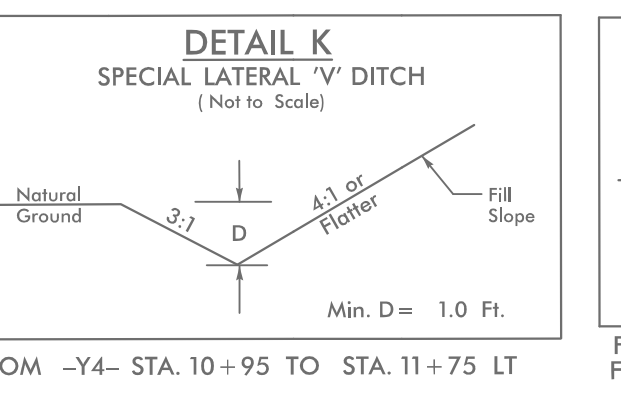
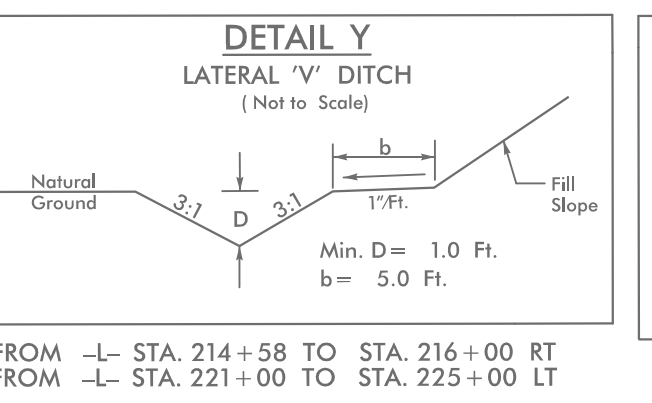
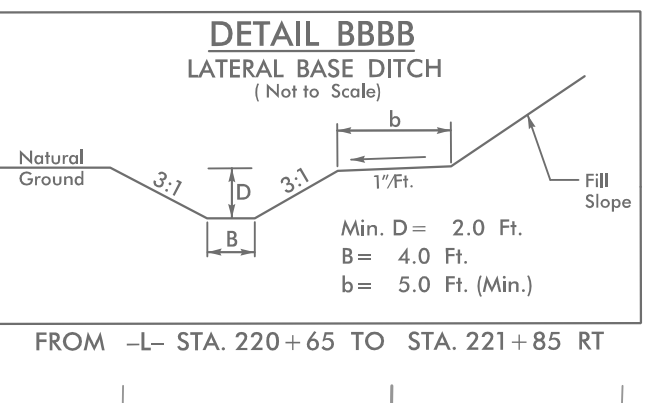
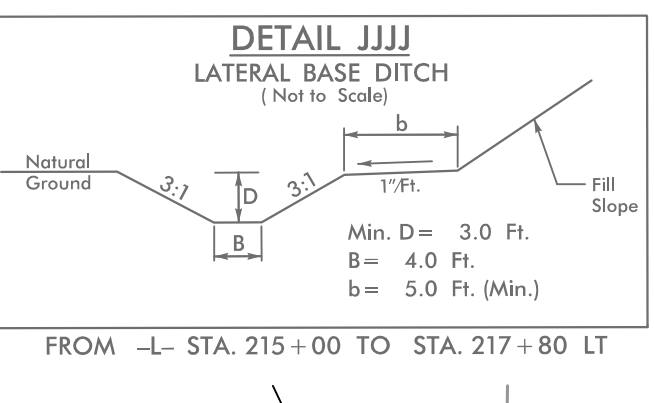
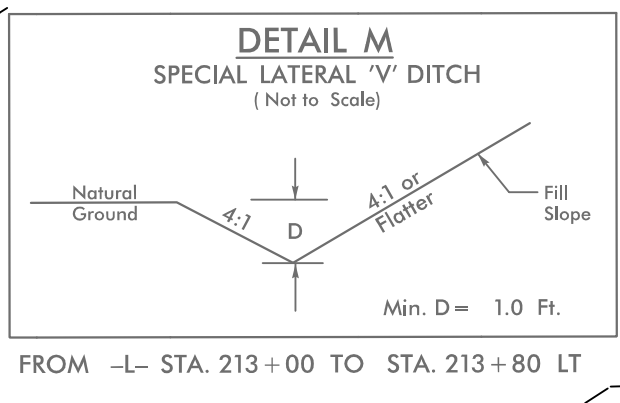


Place Matting for Erosion Control or Coir Fiber Mat, as directed, on Slope as Work Allows.
 -L- Sta. 213+00 to Sta. 219+50 LT
 -L- Sta. 214+50 to Sta. 217+50 RT
 -L- Sta. 225+00 to Sta. 228+00 RT
 -L- Sta. 221+00 to Sta. 227+50 LT

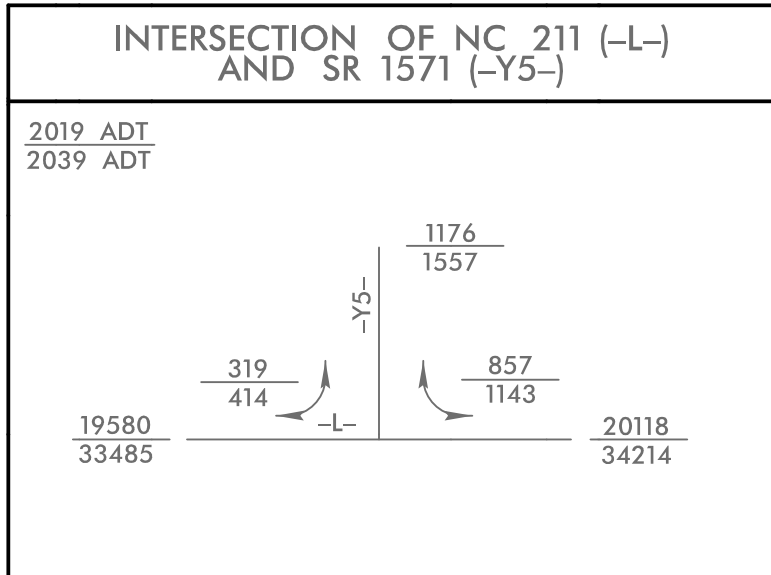
MATCH LINE -L- STA 213+00.00
SEE SHEET 15



MATCH LINE -L- STA 227+00.00
SEE SHEET 17



11/27/2008 - EC - PSH16.dgn



Place Matting for Erosion Control or Coir Fiber Mat, as directed, on Slope as Work Allows.

-L- Sta. 234+50 to Sta. 235+50 RT
 -L- Sta. 239+50 to Sta. 241+00 RT
 -L- Sta. 238+00 to Sta. 241+00 LT

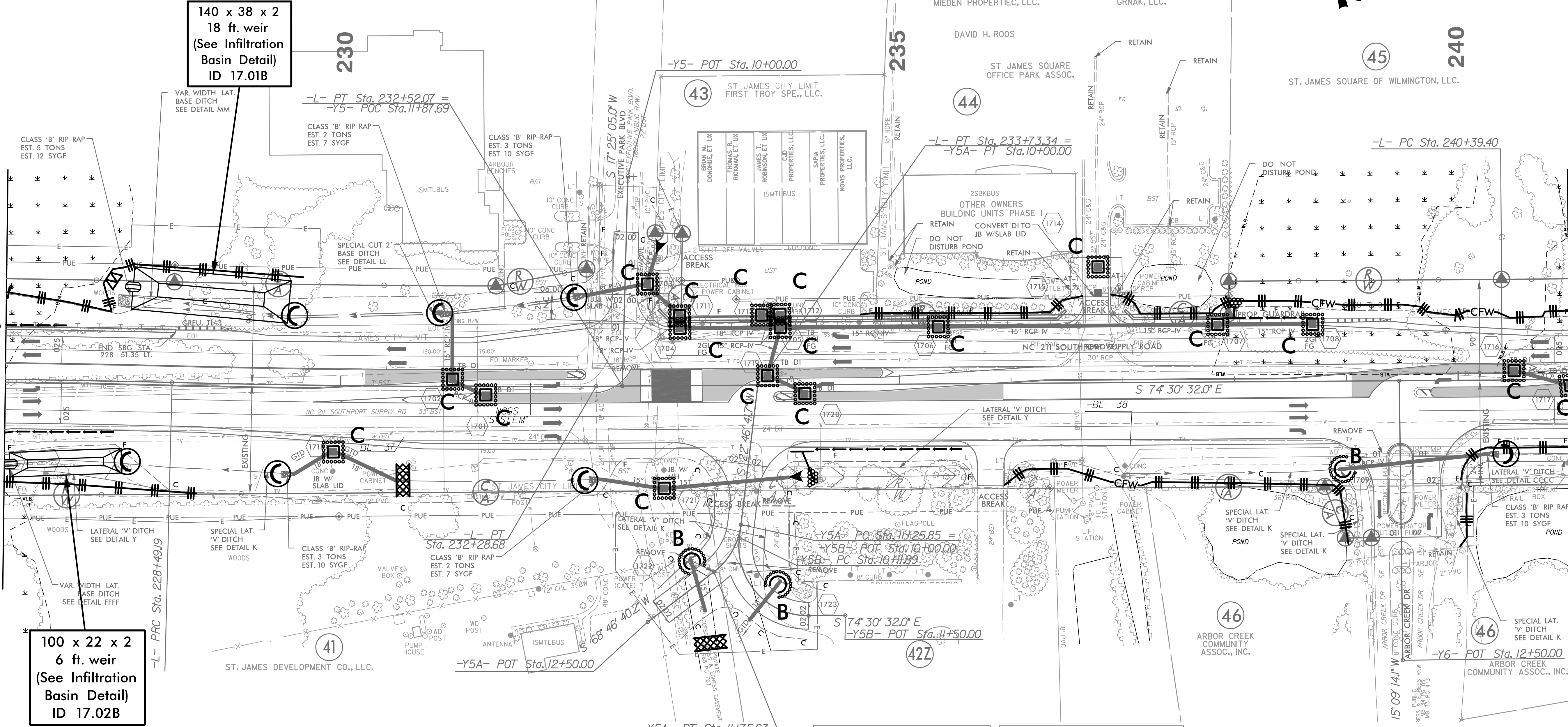
NOTE: UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS / JURISDICTIONAL AREAS, AND AS DIRECTED

NOTE: INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED.

PROJECT REFERENCE NO.	SHEET NO.
R-5021	EC-54/CONST.17
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

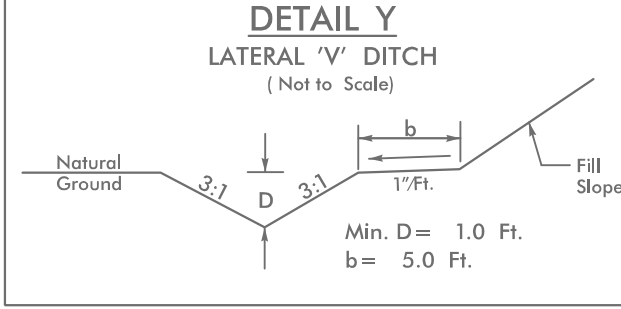
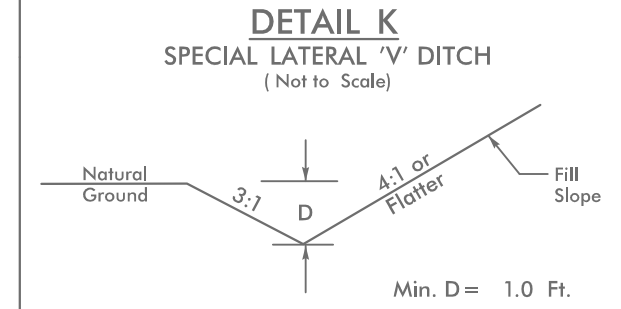
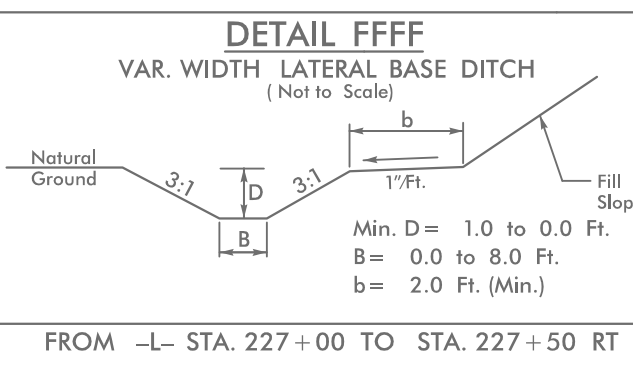
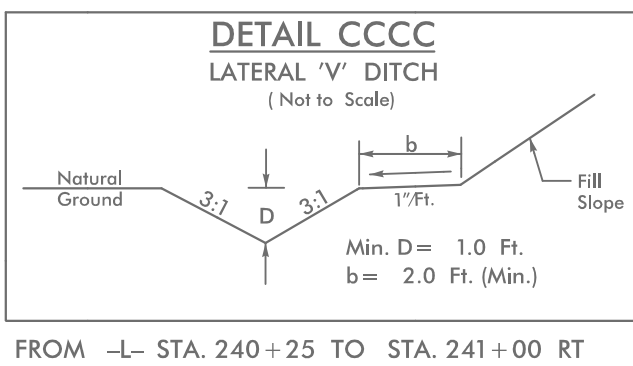
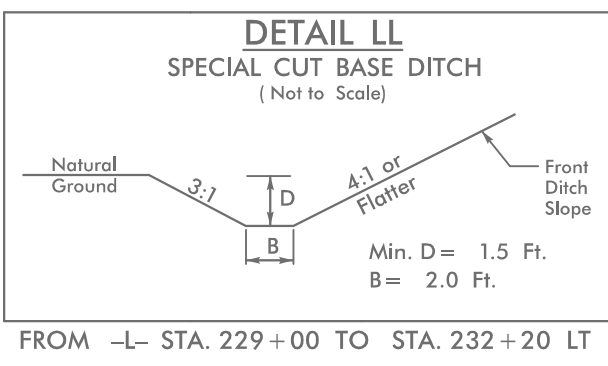
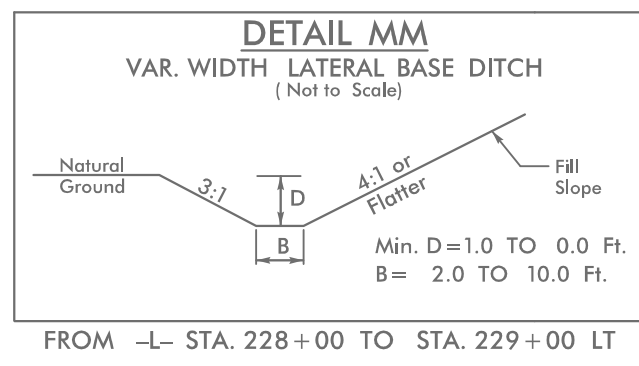
MATCH LINE -L- STA. 227+00.00 SEE SHEET 16

MATCH LINE -L- STA. 241+00.00 SEE SHEET 18



140 x 38 x 2
 18 ft. weir
 (See Infiltration Basin Detail)
 ID 17.01B

100 x 22 x 2
 6 ft. weir
 (See Infiltration Basin Detail)
 ID 17.02B



FROM -L- STA. 237+00 TO STA. 238+93 RT
 FROM -Y6- STA. 10+75 TO STA. 11+25 LT
 FROM -L- STA. 228+25 TO STA. 232+30 RT
 FROM -Y5A- STA. 11+00 TO STA. 12+25 RT
 FROM -Y5B- STA. 10+00 TO STA. 11+00 LT

FROM -L- STA. 227+50 TO STA. 228+25 RT
 FROM -L- STA. 233+25 TO STA. 235+50 RT

5/14/99

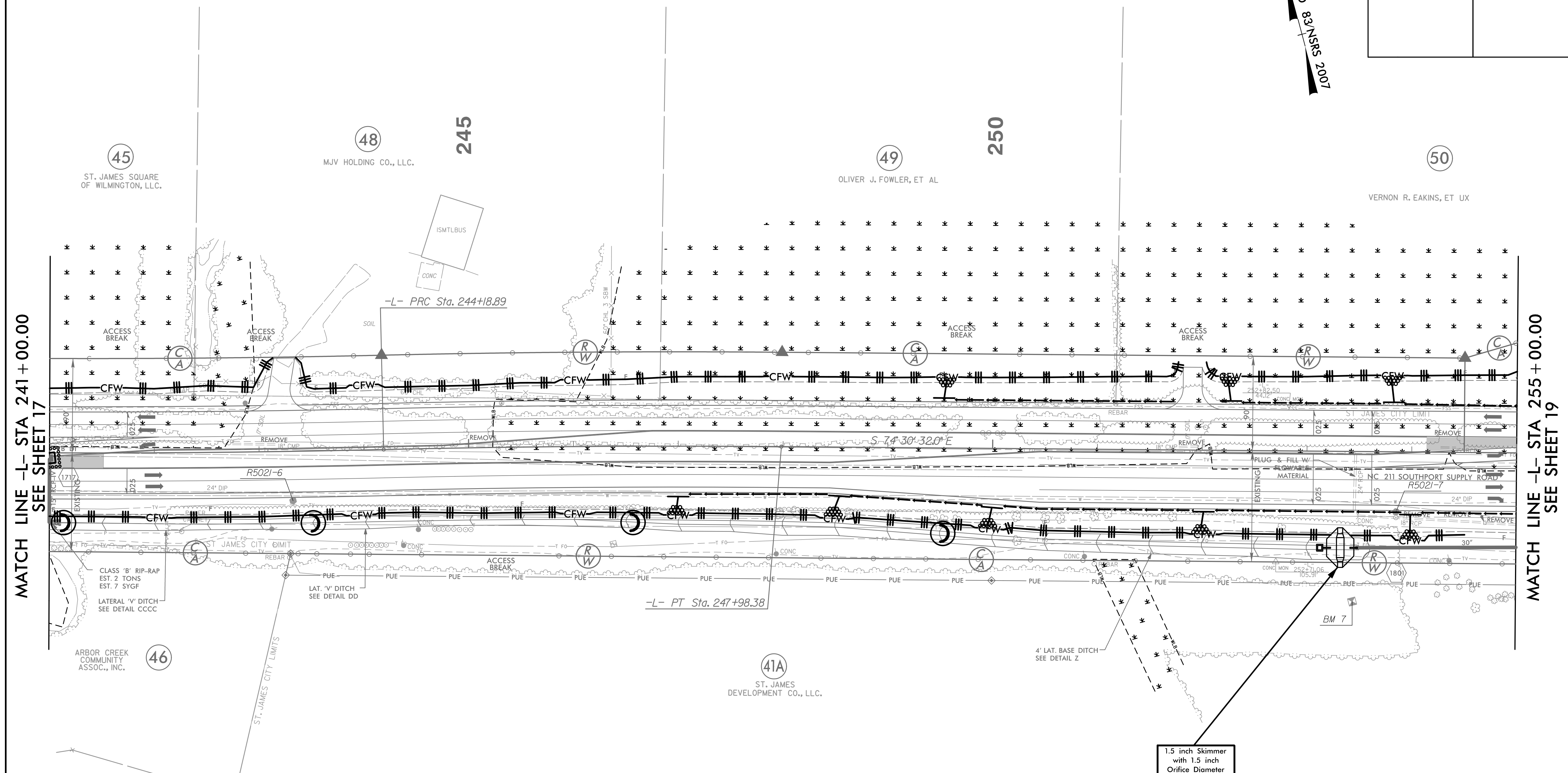
Place Matting for Erosion Control
or Coir Fiber Mat, as directed,
on Slope as Work Allows.
-L- Sta. 241+00 to Sta. 250+00 RT
-L- Sta. 252+00 to Sta. 255+00 RT

NOTE:
UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS /JURISDICTIONAL
AREAS, AND AS DIRECTED

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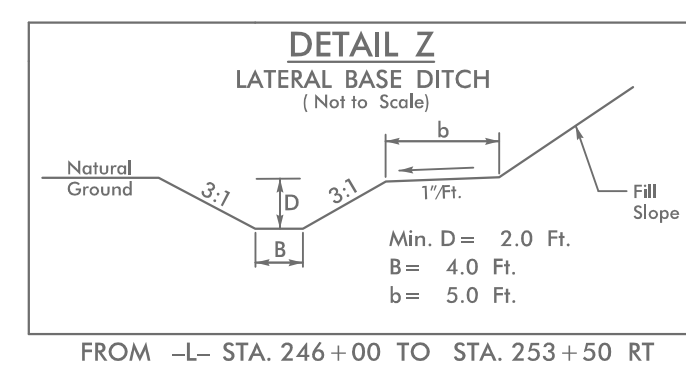
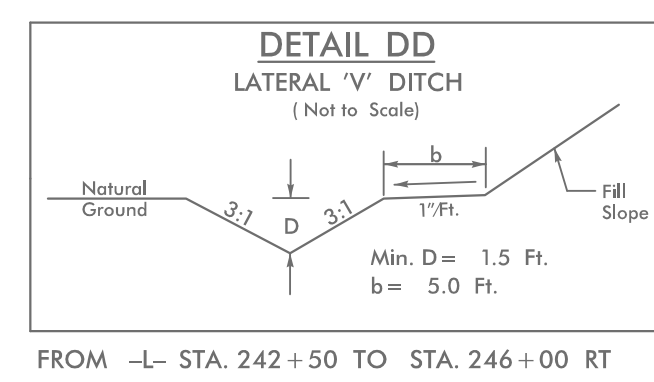
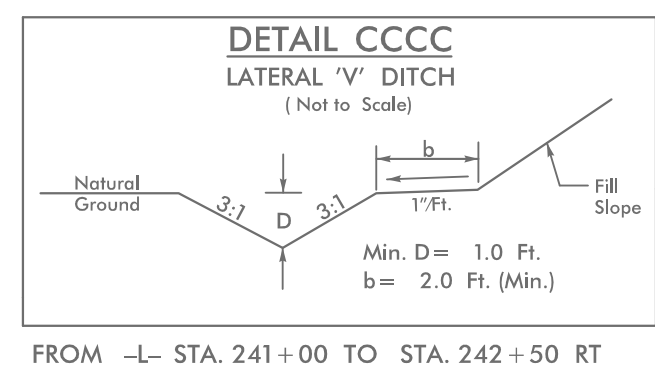
PROJECT REFERENCE NO.	SHEET NO.
R-5021	EC-55/CONST.1B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NSRS 2007



MATCH LINE -L- STA 241+00.00
SEE SHEET 17

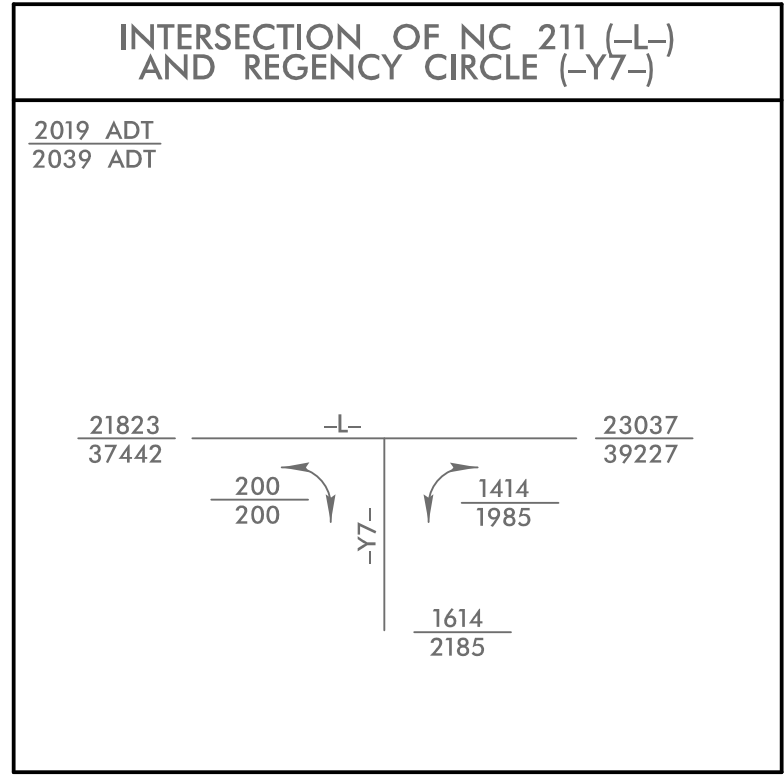
MATCH LINE -L- STA 255+00.00
SEE SHEET 19



1.5 inch Skimmer
with 1.5 inch
Orifice Diameter
10 ft. weir with
2.5 ft. weir height
ID 18.03F
(See Earthen Dam
with Skimmer Detail)

4/22/2021
L-EC_PSH18.dgn

5/14/99



Place Matting for Erosion Control
or Coir Fiber Mat, as directed,
on Slope as Work Allows.
-L- Sta. 255+00 to Sta. 269+00 RT
-L- Sta. 255+00 to Sta. 269+00 LT

NOTE:
UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS /JURISDICTIONAL
AREAS, AND AS DIRECTED

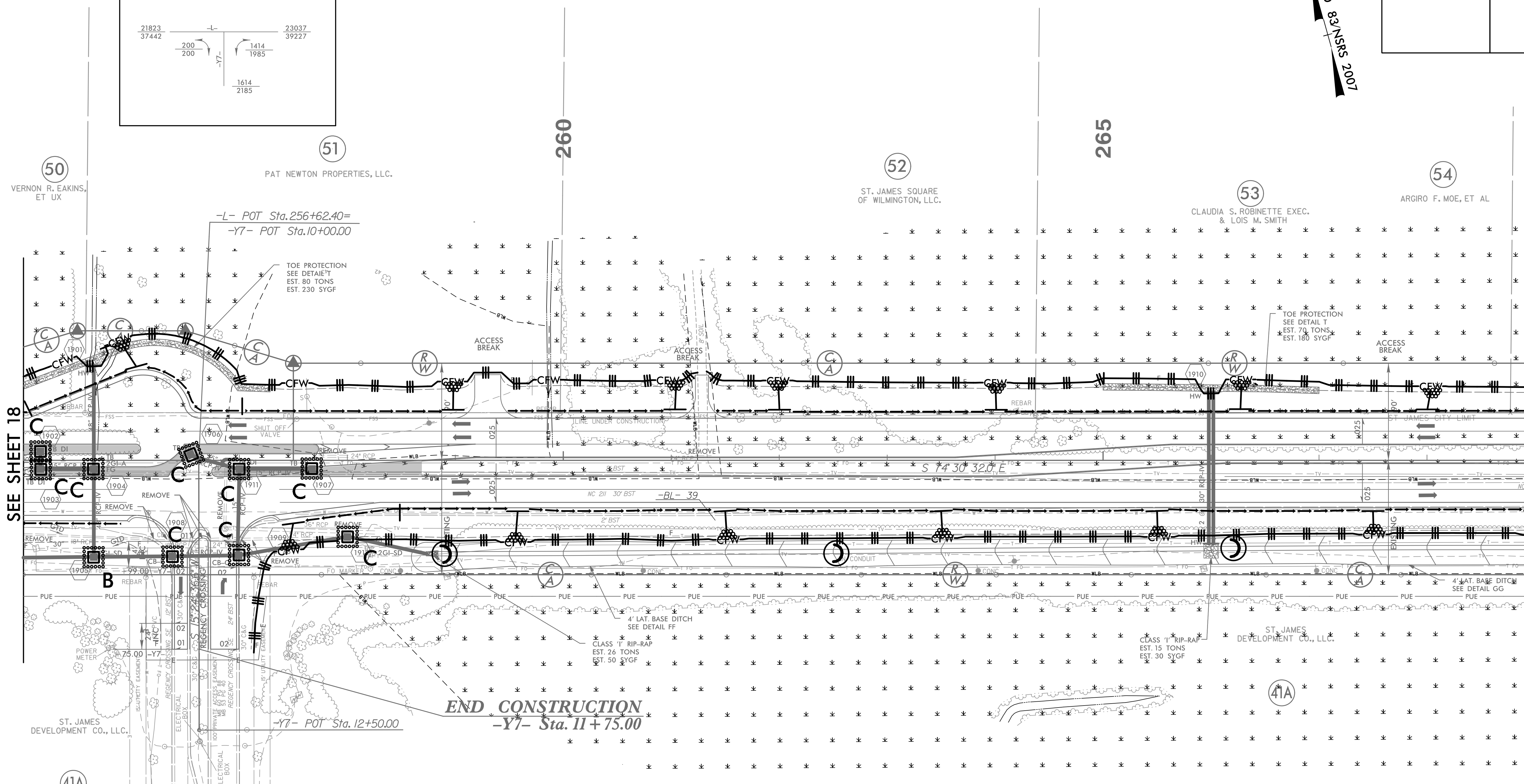
HNTB HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
R-5021	EC-56/CONST.19
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

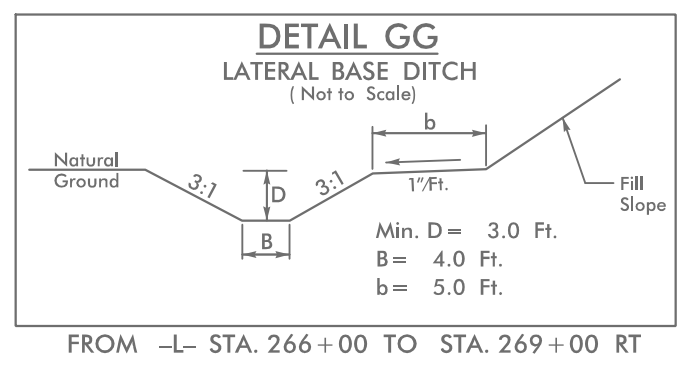
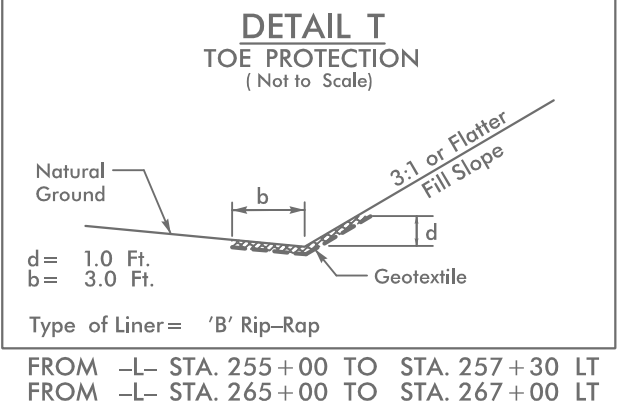
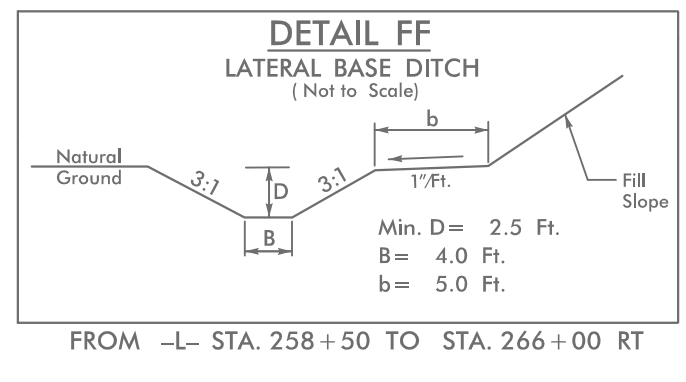
NAD
83 NSRS
2007

MATCH LINE -L- STA 255+00.00
SEE SHEET 18

MATCH LINE -L- STA 269+00.00
SEE SHEET 20



END CONSTRUCTION
-Y7- Sta. 11+75.00



11/28/2018
R-5021-EC_PSH19.dgn
HNTB

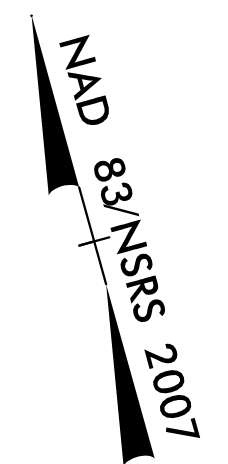
5/14/99

Place Matting for Erosion Control
or Coir Fiber Mat, as directed,
on Slope as Work Allows.
-L- Sta. 269+00 to Sta. 283+00 RT
-L- Sta. 269+00 to Sta. 283+00 LT

NOTE:
UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS /JURISDICTIONAL
AREAS, AND AS DIRECTED

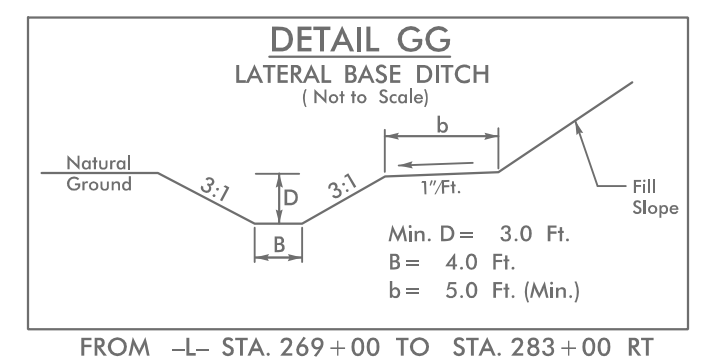
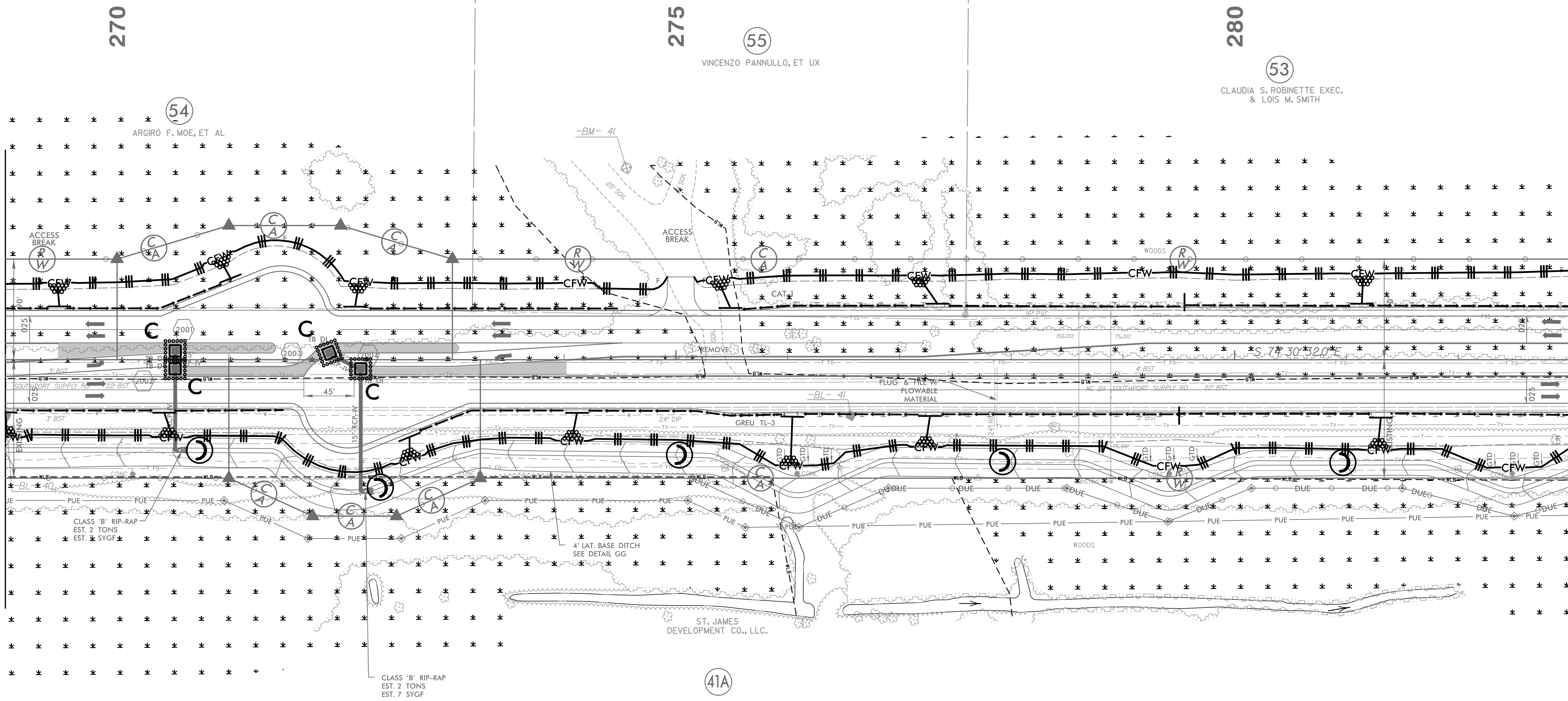
HNTB HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
R-5021	EC-57/CONST.20
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCH LINE -L- STA 269+00.00
SEE SHEET 19

MATCH LINE -L- STA 283+00.00
SEE SHEET 21



5/14/2021_EC_PSH20.dgn

