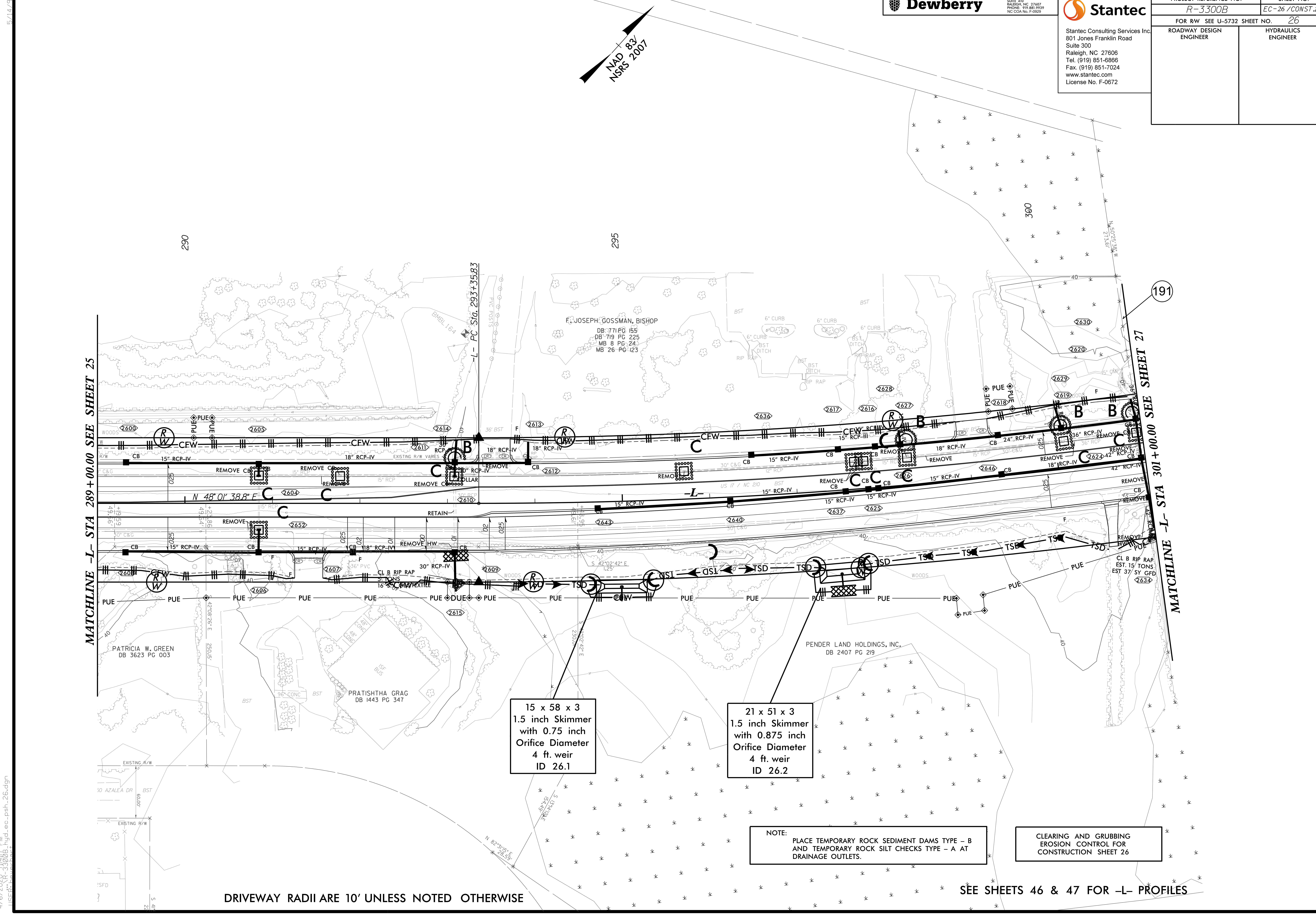
Dewberry

Stantec

Stantec Consulting Services Inc.
801 Jones Franklin Road
Suite 300
Raleigh, NC 27606
Tel. (919) 851-6866
Fax. (919) 851-7024
www.stantec.com
License No. F-0672

PROJECT REFERENCE NO.	SHEET NO.
R-3300B	EC-26 /CONST.26
FOR RW SEE U-5732 SHEET NO. 26	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



NAD 83/ NSRS 2007
MATCHLINE -L- STA 289+00.00 SEE SHEET 25
MATCHLINE -L- STA 301+00.00 SEE SHEET 27
-L- PC Sta. 293+35.83
F. JOSEPH GOSSMAN, BISHOP
DB 771 PG 155
DB 719 PG 225
MB 8 PG 24
MB 26 PG 123
N 48° 01' 38.8" E
PATRICIA W. GREEN
DB 3623 PG 003
PRATISHTHA GRAG
DB 1443 PG 347
PENDER LAND HOLDINGS, INC.
DB 2407 PG 219
15 x 58 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
4 ft. weir
ID 26.1
21 x 51 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
4 ft. weir
ID 26.2
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 26
DRIVEWAY RADII ARE 10' UNLESS NOTED OTHERWISE
SEE SHEETS 46 & 47 FOR -L- PROFILES

PROJECT REFERENCE NO.	SHEET NO.
R-3300B	EC-27/CONST.27
FOR R/W SEE U-5732 SHEET NO. 27	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Dewberry
2610 WYCLIFF ROAD SUITE 410 RALEIGH, NC 27607 PHONE: 919.881.9939 NC COA No. F-0929

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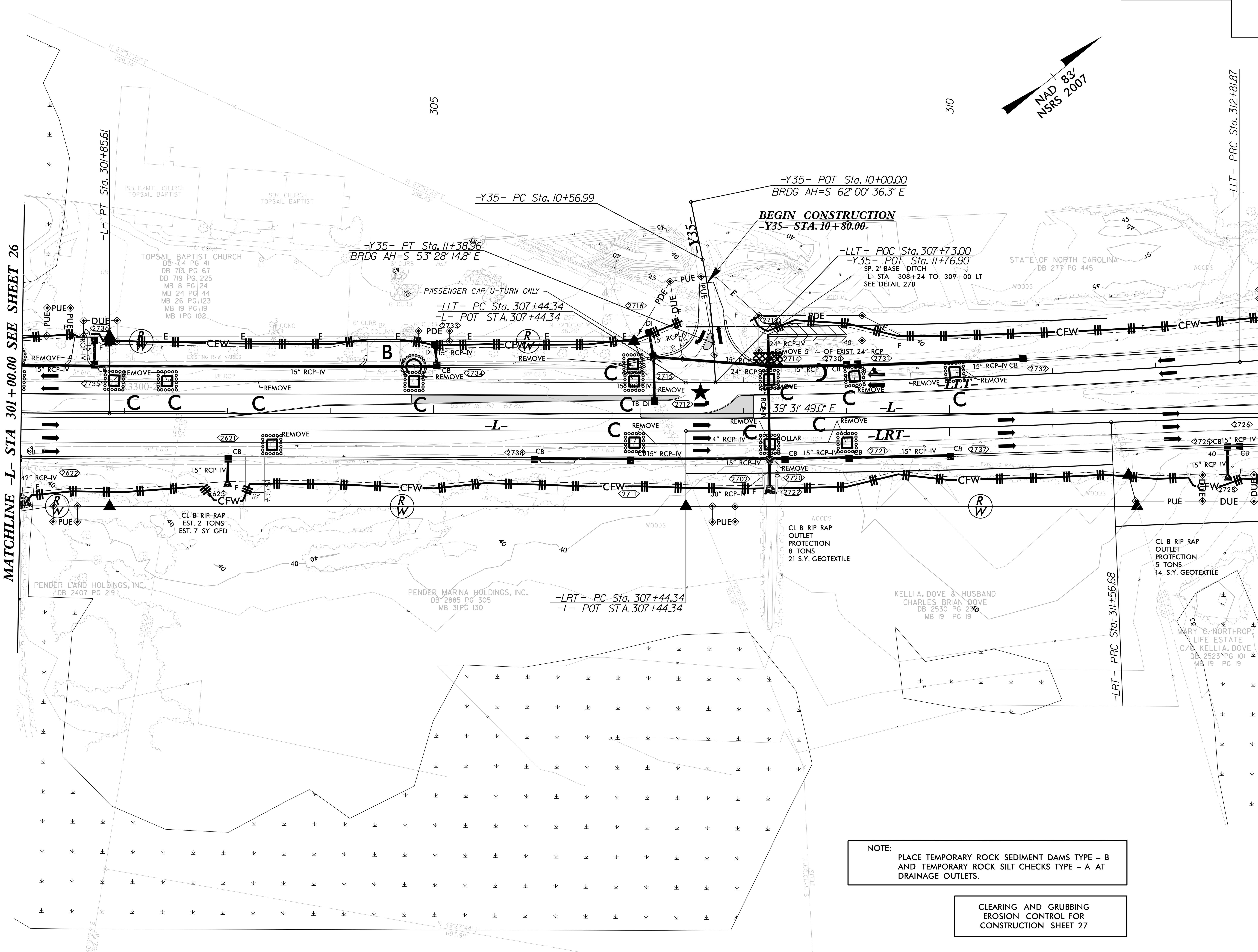
REVISIONS

11/28/2018 – R/W REVISION: ADDED PARCEL NUMBER 227. – STANTEC

5/14/99



MATCHLINE -L- STA 301+00.00 SEE SHEET 26
MATCHLINE -L- STA 313+00.00 SEE SHEET 28
NAD 83/ NSRS 2007
-L- PT Sta. 301+85.61
-Y35- PC Sta. 10+56.99
-Y35- POT Sta. 10+00.00
BRDG AH=S 62° 00' 36.3" E
BEGIN CONSTRUCTION
-Y35- STA. 10+80.00
-Y35- PT Sta. 11+38.96
BRDG AH=S 53° 28' 14.8" E
-LLT- POC Sta. 307+73.00
-Y35- POT Sta. 11+76.90
SP. 2' BASE DITCH
-L- STA 308+24 TO 309+00 LT
SEE DETAIL 27B
PASSENGER CAR U-TURN ONLY
-LLT- PC Sta. 307+44.34
-L- POT STA. 307+44.34
-LLT- PRC Sta. 312+81.87
TOPSAIL BAPTIST CHURCH
STATE OF NORTH CAROLINA
DB 277 PG 445
N 39° 31' 49.0" E
-L-
-LRT-
-LLT-
CL B RIP RAP
EST. 2 TONS
EST. 7 SY GFD
CL B RIP RAP OUTLET PROTECTION 8 TONS 21 S.Y. GEOTEXTILE
CL B RIP RAP OUTLET PROTECTION 5 TONS 14 S.Y. GEOTEXTILE
PENDER LAND HOLDINGS, INC.
DB 2407 PG 219
PENDER MARINA HOLDINGS, INC.
DB 2885 PG 305
MB 31 PG 130
-LRT- PC Sta. 307+44.34
-L- POT STA. 307+44.34
KELLI A. DOVE & HUSBAND
CHARLES BRIAN DOVE
DB 2530 PG 270
MB 19 PG 19
-LRT- PRC Sta. 311+56.68
MARY C. NORTHROP, LIFE ESTATE
C/O KELLI A. DOVE
DB 2523 PG 101
MB 19 PG 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 27

09-SEP-2021 11:58
...\Erosion Control\Plan Sheets\R-3300B_hyd_ec_psh_27.dgn
$$$$USERNAME$$$$

Dewberry
2610 WYCLIFF ROAD
SUITE 410
RALEIGH, NC 27607
PHONE: 919.881.9939
NC COA No. F-0929

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PROJECT REFERENCE NO.	SHEET NO.
R-3300B	EC-28/CONST.28
FOR R/W SEE U-5732 SHEET NO.	28
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/
NSRS 2007

5/14/99

REVISIONS

11/28/2018 – R/W REVISION: ADDED PARCEL NUMBER 227. – STANTEC
10/31/2019 – R/W REVISION: REVISED PUE AND DUE ON PARCEL NO. 196. – STANTEC

09-SEP-2021 07:54
C:\Projects\Environmental\Design Sheets\R-3300B_hyd_ec_pst_28.dgn
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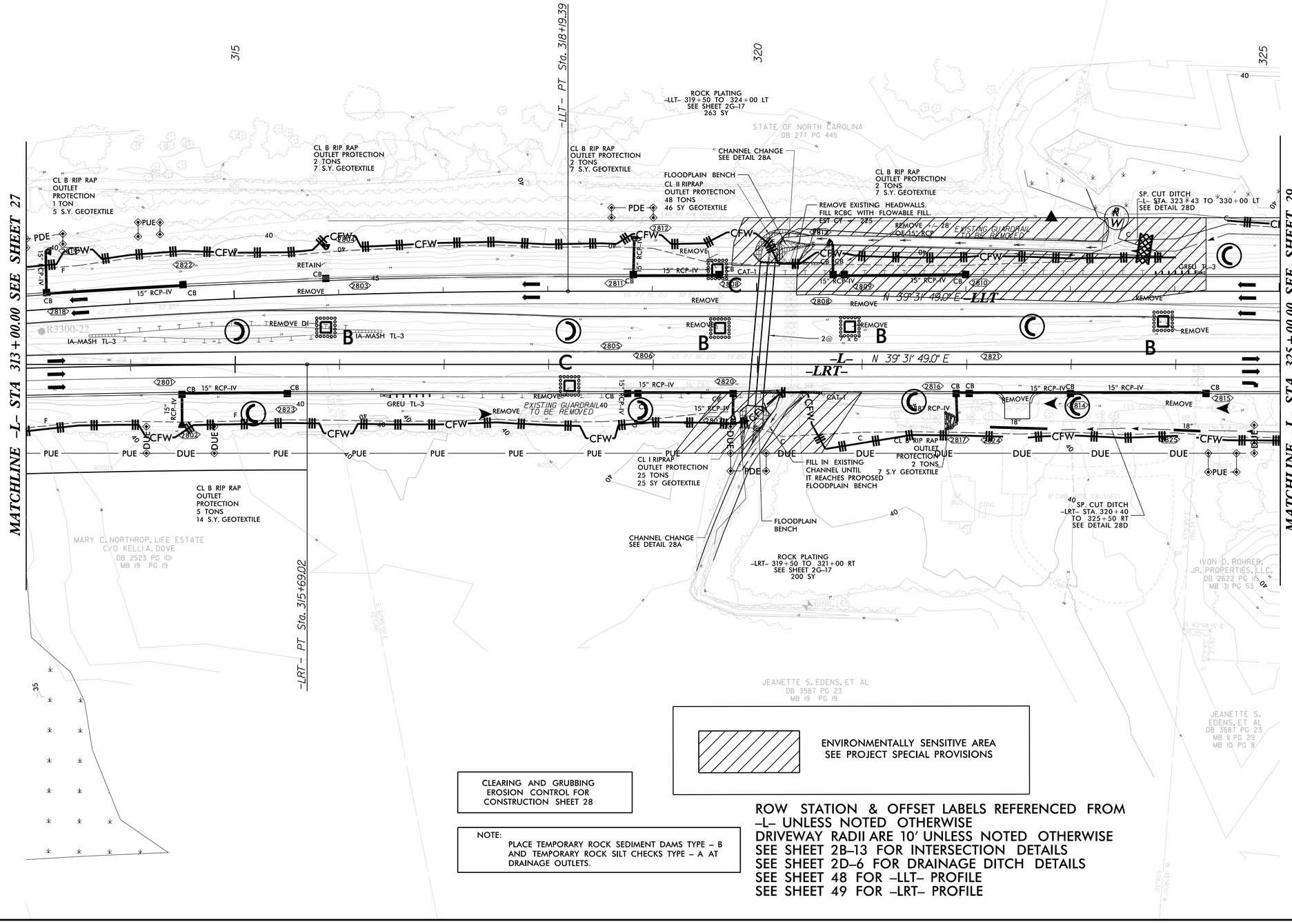


ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 28

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

ROW STATION & OFFSET LABELS REFERENCED FROM –L– UNLESS NOTED OTHERWISE
DRIVEWAY RADII ARE 10' UNLESS NOTED OTHERWISE
SEE SHEET 2B-13 FOR INTERSECTION DETAILS
SEE SHEET 2D-6 FOR DRAINAGE DITCH DETAILS
SEE SHEET 48 FOR –LLT– PROFILE
SEE SHEET 49 FOR –LRT– PROFILE

CULVERT CONSTRUCTION SEQUENCE STA. 320+01 –L–

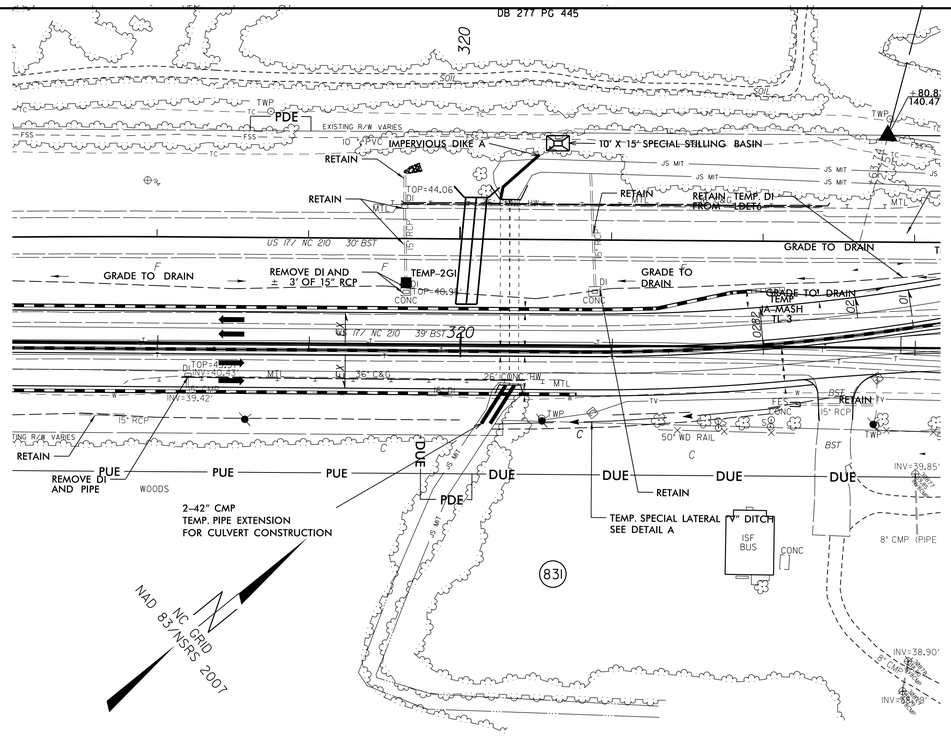
PROJECT REFERENCE NO.	SHEET NO.
R-3300B	EC-28A/CONST.28
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

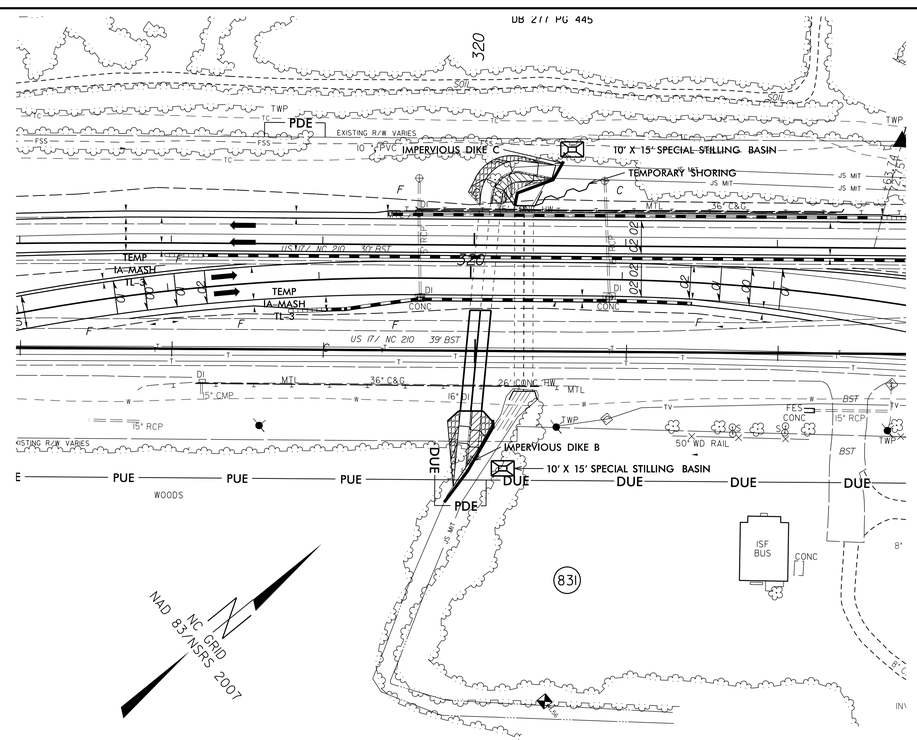
PHASE I

1. ADD TEMPORARY 42" CMP TO EXISTING RCBC. GROUT 42" PIPES TO EXISTING CULVERT. USE IMPERVIOUS DIKES ON THE UPSTREAM AND DOWNSTREAM AS NEEDED TO INSTALL ONE BARREL AT A TIME WHILE FLOW IS MAINTAINED THROUGH THE OTHER BARREL.
2. CONSTRUCT DETOUR 6 THEN SHIFT ALL TRAFFIC ONTO DETOUR 6.
3. PLACE IMPERVIOUS DIKE A AT EXISTING NW BARREL. PUMP DISCHARGE WITHIN WORK AREA TO SPECIAL STILLING BASIN.
4. REMOVE EXISTING HEADWALL AS NEEDED TO CONSTRUCT PROPOSED CULVERT HEADWALL.
5. CONSTRUCT APPROXIMATELY 71 LF OF THE NORTHERN SEGMENT OF THE PROPOSED DUAL RCBC AND HEADWALLS AS SHOWN.
6. VOLUME NEEDED FOR SPECIAL STILLING BASINS FOR TREATMENT OF DEWATERING EFFLUENT FROM CONSTRUCTION AREAS SHALL BE CAPABLE OF HANDLING 115 CY OF WATER.

PHASE II

1. CONSTRUCT DETOUR 7 THEN SHIFT ALL TRAFFIC ONTO DETOUR 7.
2. RETAIN IMPERVIOUS DIKE A AND PLACE IMPERVIOUS DIKE B AS SHOWN. PUMP DISCHARGE WITHIN WORK AREA TO SPECIAL STILLING BASINS.
3. CONSTRUCT APPROXIMATELY 67 LF OF THE SOUTHERN SEGMENT OF THE PROPOSED DUAL RCBC AND HEADWALL. CONSTRUCT AS MUCH OF THE UPSTREAM CHANNEL CHANGE AS POSSIBLE. CONSTRUCT ALL OF THE DOWNSTREAM CHANNEL CHANGE.
4. REMOVE EXISTING UPSTREAM HEADWALL. PLACE SHORING AS SHOWN AND DIVERT FLOW INTO EXISTING CULVERT. EXCAVATE FILL SLOPE AS NEEDED TO DIVERT FLOW.
5. REPLACE IMPERVIOUS DIKE A WITH DIKE C. CONSTRUCT REMAINING CHANNEL CHANGE.
6. REMOVE IMPERVIOUS DIKES AND SHORING. DIRECT FLOW INTO THE PROPOSED RCBC. REMOVE TEMPORARY 42" CMP.
7. AFTER RCBC CONSTRUCTION IS COMPLETE, FILL THE EXISTING RCBC WITH FLOWABLE FILL.
8. VOLUME NEEDED FOR SPECIAL STILLING BASINS FOR TREATMENT OF DEWATERING EFFLUENT FROM CONSTRUCTION AREAS SHALL BE CAPABLE OF HANDLING 115 CY OF WATER.





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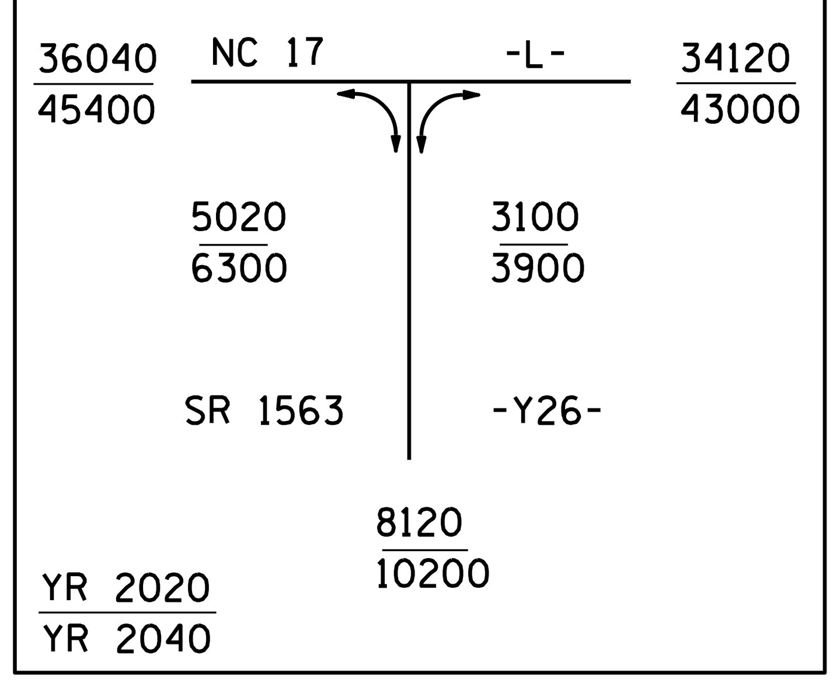
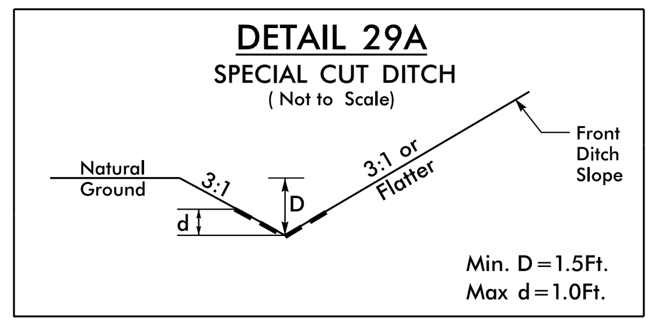
PROJECT REFERENCE NO.	SHEET NO.
R-3300B	EC-29/CONST.29
FOR R/W SEE U-5732 SHEET NO.	29
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

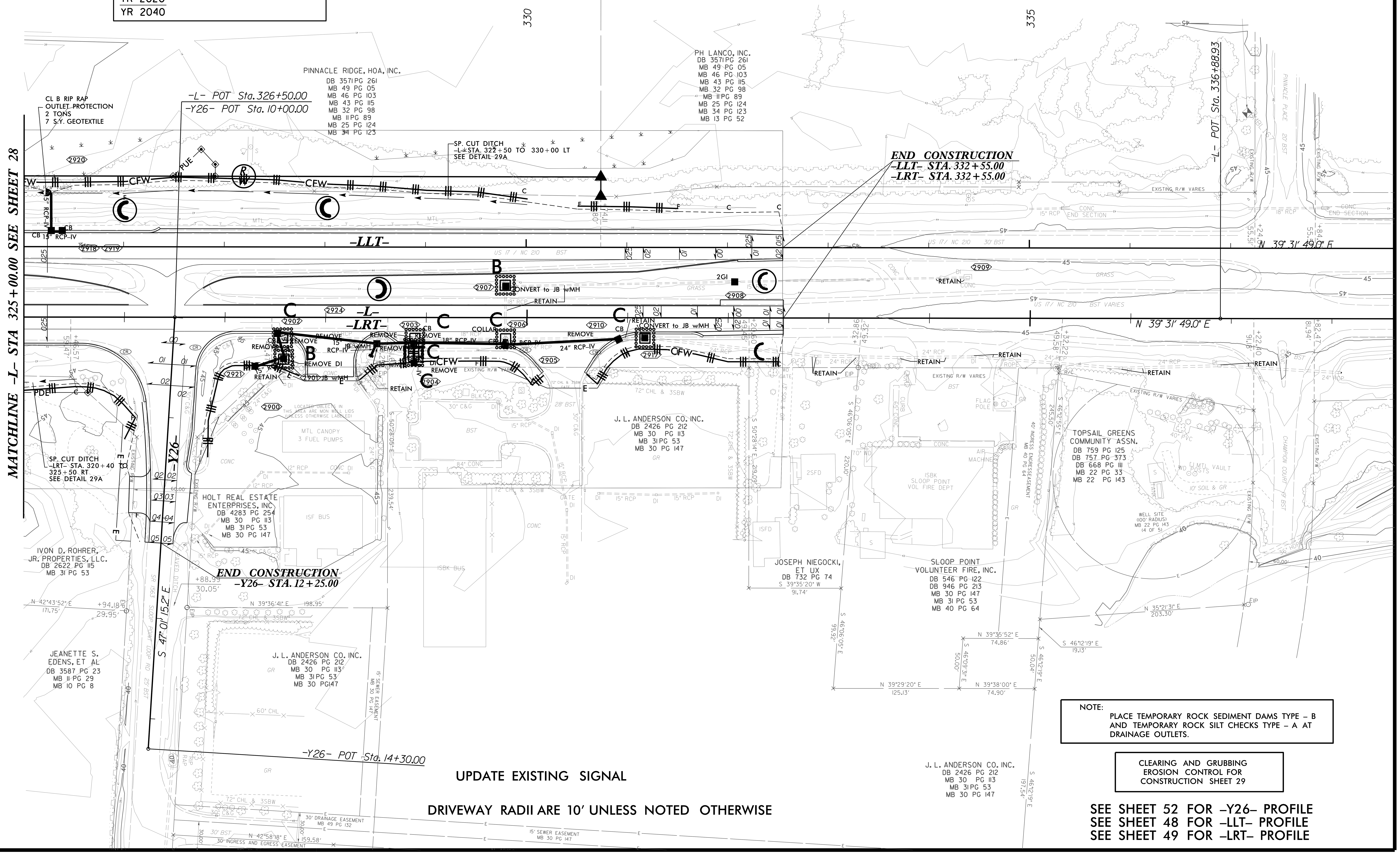
11/28/2018 - R/W REVISION: ADDED "DO NOT DISTURB" NOTES FOR THE PUMP HOUSE, LIGHT, FUEL PUMP & TIRE AIR STATION ON PARCEL 198 - STANTEC





FROM -L- STA. 322+50 TO STA. 330+00 LT
FROM -LRT- STA. 320+40 TO STA. 325+50 RT

NAD 83/ NSRS 2007



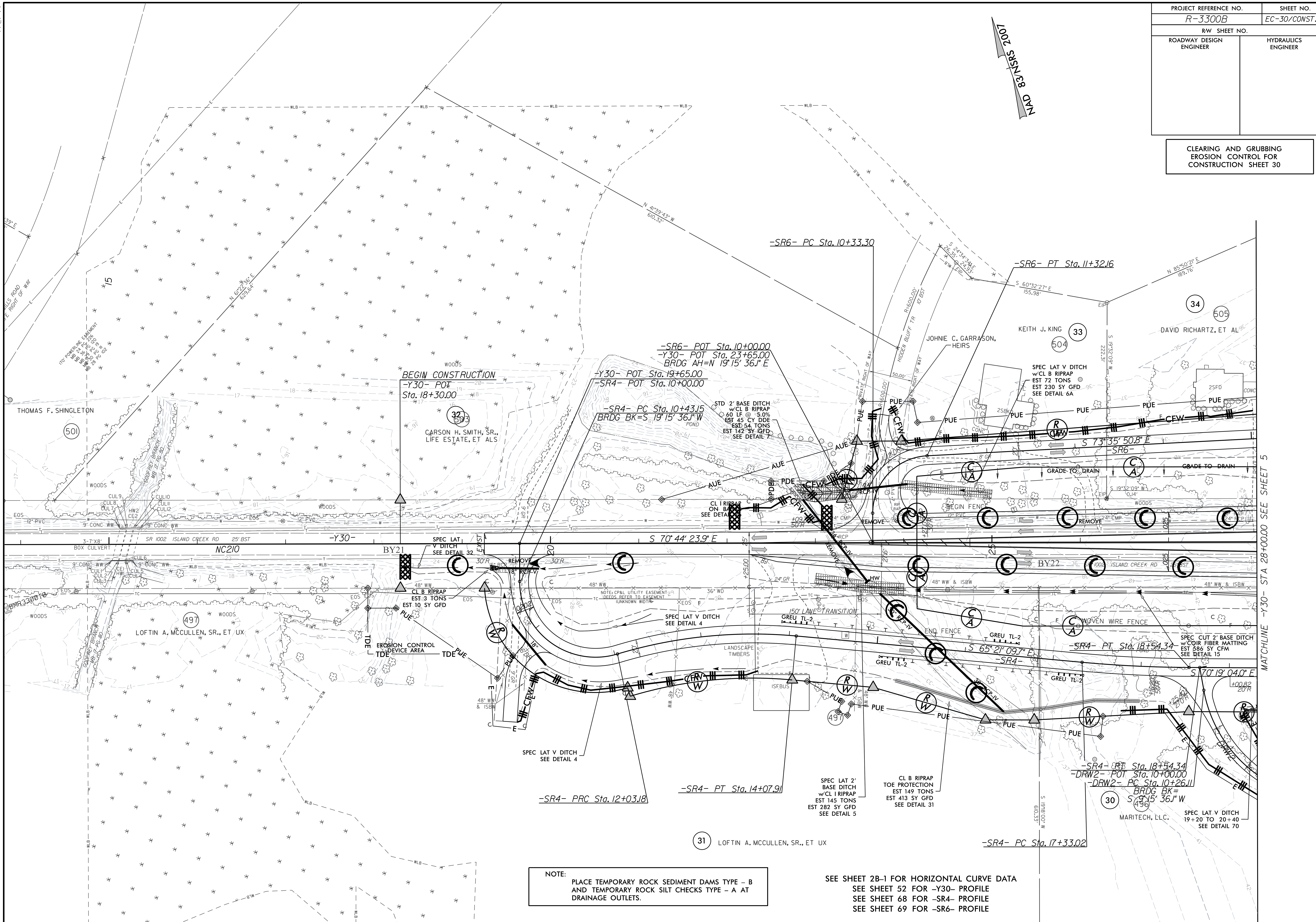
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 29

UPDATE EXISTING SIGNAL

DRIVEWAY RADII ARE 10' UNLESS NOTED OTHERWISE

SEE SHEET 52 FOR -Y26- PROFILE
SEE SHEET 48 FOR -LLT- PROFILE
SEE SHEET 49 FOR -LRT- PROFILE



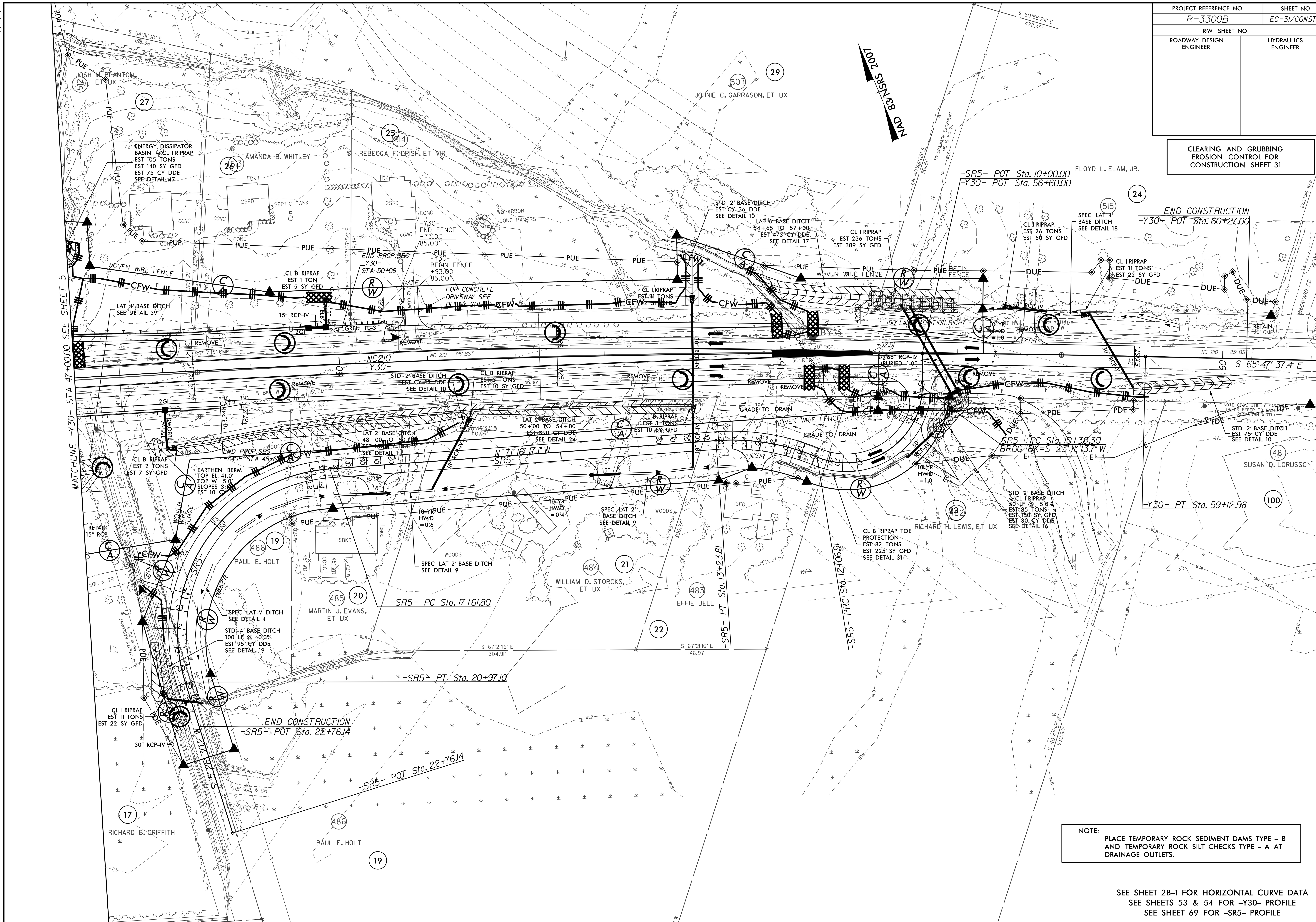
PROJECT REFERENCE NO.
R-3300B
SHEET NO.
EC-30/CONST.30
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 30
NAD 83/NSRS 2007
-SR6- PC Sta. 10+33.30
-SR6- PT Sta. 11+32.16
-SR6- POT Sta. 10+00.00
-Y30- POT Sta. 23+65.00
BRDG AH=N 19° 15' 36.1" E
-Y30- POT Sta. 19+65.00
-SR4- POT Sta. 10+00.00
-SR4- PC Sta. 10+43.15
BRDG BK=S 19° 15' 36.1" W
BEGIN CONSTRUCTION
-Y30- POT
Sta. 18+30.00
THOMAS F. SHINGLETON
CARSON H. SMITH, SR., LIFE ESTATE, ET ALS
JOHNIE C. GARRASON, HEIRS
KEITH J. KING
DAVID RICHARTZ, ET AL
LOFTIN A. MCCULLEN, SR., ET UX
MARITECH, LLC.
STD 2' BASE DITCH w/CL B RIPRAP 60 LF @ 5.0% EST 45 CY DDE EST 54 TONS EST 142 SY GFD SEE DETAIL 7
SPEC LAT V DITCH w/CL B RIPRAP EST 72 TONS EST 230 SY GFD SEE DETAIL 6A
SPEC LAT V DITCH SEE DETAIL 32
CL B RIPRAP EST 3 TONS EST 10 SY GFD
SPEC LAT V DITCH SEE DETAIL 4
EROSION CONTROL DEVICE AREA
S 70° 44' 23.9" E
S 73° 35' 50.8" E
S 65° 21' 09.7" E
S 70° 19' 04.0" E
NC210
SR 1002 ISLAND CREEK RD
3-7'X8' BOX CULVERT
GRADE TO DRAIN
BEGIN FENCE
END FENCE
WOVEN WIRE FENCE
150' LANE TRANSITION
LANDSCAPE TIMBERS
-SR4- PT Sta. 18+54.34
SPEC CUT 2' BASE DITCH w/COIR FIBER MATTING EST 586 SY CFM SEE DETAIL 15
-SR4- PRC Sta. 12+03.18
-SR4- PT Sta. 14+07.91
SPEC LAT 2' BASE DITCH w/CL I RIPRAP EST 145 TONS EST 282 SY GFD SEE DETAIL 5
CL B RIPRAP TOE PROTECTION EST 149 TONS EST 413 SY GFD SEE DETAIL 31
-SR4- PT Sta. 18+54.34
-DRW2- POT Sta. 10+00.00
-DRW2- PC Sta. 10+26.11
BRDG BK= S 19° 15' 36.1" W
SPEC LAT V DITCH 19+20 TO 20+40 SEE DETAIL 70
-SR4- PC Sta. 17+33.02
MATCHLINE -Y30- STA 28+00.00 SEE SHEET 5

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

SEE SHEET 2B-1 FOR HORIZONTAL CURVE DATA
SEE SHEET 52 FOR -Y30- PROFILE
SEE SHEET 68 FOR -SR4- PROFILE
SEE SHEET 69 FOR -SR6- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
R-3300B	EC-31/CONST.31
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 31



NAD 83/NSRS 2007
MATCHLINE -Y30- STA 47+00.00 SEE SHEET 5
NC210
-Y30-
-SR5-
END CONSTRUCTION
-Y30- POT Sta. 60+27.00
-SR5- POT Sta. 10+00.00
-Y30- POT Sta. 56+60.00
-Y30- PT Sta. 59+12.58
-SR5- PC Sta. 10+38.30
BRDG BK=S 23° N 13.7' W
-SR5- PC Sta. 17+61.80
-SR5- PT Sta. 13+23.81
-SR5- PRC Sta. 12+06.91
-SR5- PT Sta. 20+97.10
END CONSTRUCTION
-SR5- POT Sta. 22+76.14
-SR5- POT Sta. 22+76.14
S 65° 47' 37.4" E
N 71° 16' 17.1" W
JOSH M. BLANTON, ET UX
AMANDA B. WHITLEY
REBECCA F. DRISH, ET VIR
JOHNIE C. GARRASON, ET UX
FLOYD L. ELAM, JR.
SUSAN D. LORUSSO
RICHARD H. LEWIS, ET UX
EFFIE BELL
WILLIAM D. STORCKS, ET UX
MARTIN J. EVANS, ET UX
PAUL E. HOLT
RICHARD B. GRIFFITH
72" ENERGY DISSIPATOR BASIN w/ CL I RIPRAP EST 105 TONS EST 140 SY GFD EST 75 CY DDE SEE DETAIL 47
LAT 4' BASE DITCH SEE DETAIL 39
STD 2' BASE DITCH EST CY 36 DDE SEE DETAIL 10
LAT 6' BASE DITCH 54+65 TO 57+00 EST 473 CY DDE SEE DETAIL 17
CL I RIPRAP EST 236 TONS EST 389 SY GFD
CL I RIPRAP EST 26 TONS EST 50 SY GFD
SPEC LAT 4' BASE DITCH SEE DETAIL 18
CL I RIPRAP EST 11 TONS EST 22 SY GFD
STD 2' BASE DITCH EST 75 CY DDE SEE DETAIL 10
STD 2' BASE DITCH w/ CL I RIPRAP 50 LF @ 5.0% EST 85 TONS EST 150 SY GFD EST 30 CY DDE SEE DETAIL 16
CL B RIPRAP TOE PROTECTION EST 82 TONS EST 225 SY GFD SEE DETAIL 31
SPEC LAT 2' BASE DITCH SEE DETAIL 9
SPEC LAT V DITCH SEE DETAIL 4
STD 4' BASE DITCH 100 LF @ 0.3% EST 95 CY DDE SEE DETAIL 19
CL I RIPRAP EST 11 TONS EST 22 SY GFD
CL B RIPRAP EST 2 TONS EST 7 SY GFD
GRADE TO DRAIN
WOVEN WIRE FENCE

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

SEE SHEET 2B-1 FOR HORIZONTAL CURVE DATA
SEE SHEETS 53 & 54 FOR -Y30- PROFILE
SEE SHEET 69 FOR -SR5- PROFILE

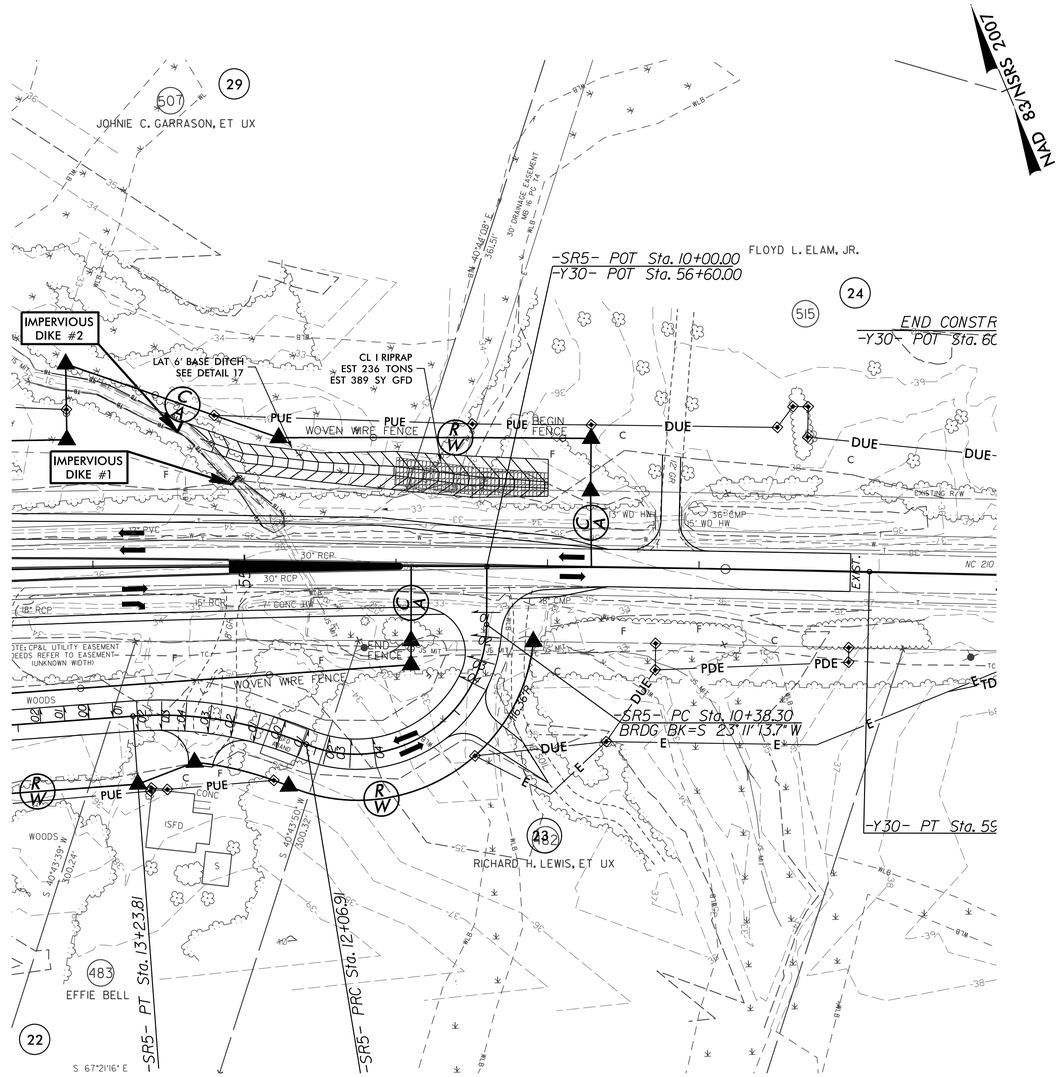
7/2/99

CULVERT CONSTRUCTION SEQUENCE
STA. 56 + 71 –Y30– UT TO HARRISONS CREEK

PROJECT REFERENCE NO.	SHEET NO.
R-3300B	EC-31A/CONST.31
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

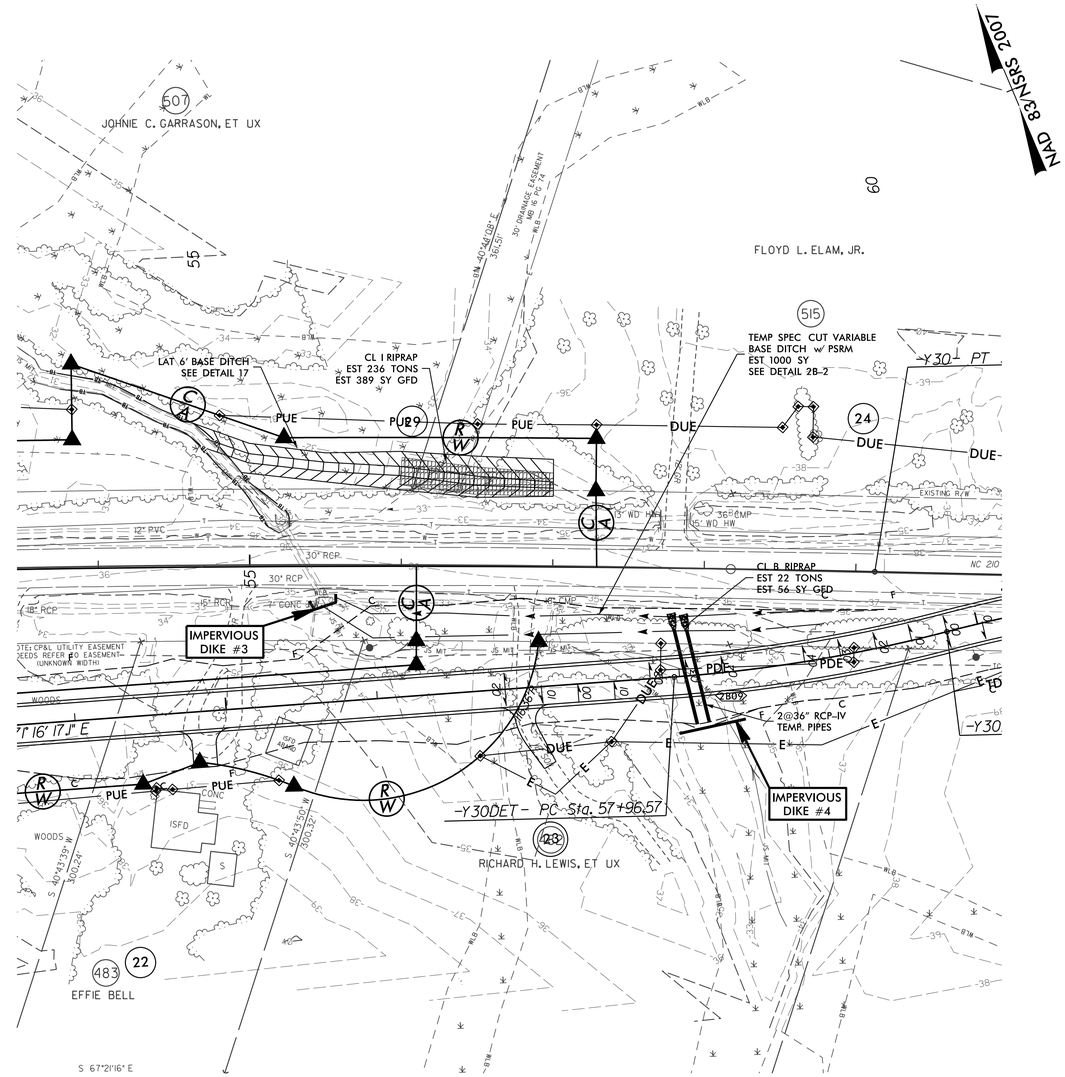
PHASE I

1.) UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED THROUGHOUT PIPE INSTALLATION.
2.) INSTALL DOWNSTREAM PUMP AND TEMPORARY FLEXIBLE HOSE.
3.) INSTALL IMPERVIOUS DIKES #1 AND #2 AND BEGIN PUMPING OPERATIONS FOR STREAM DIVERSION.
4.) DEWATER CONSTRUCTION AREA, UTILIZING SPECIAL STILLING BASIN(S) FOR PUMPED EFFLUENT.
5.) CONSTRUCT LATERAL 6' BASE DITCH.
6.) EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKES.
7.) REMOVE IMPERVIOUS DIKES #1, #2, PUMP, AND TEMPORARY FLEXIBLE HOSE.



PHASE II

1.) INSTALL UPSTREAM PUMP AND TEMPORARY FLEXIBLE HOSE.
2.) INSTALL IMPERVIOUS DIKES #3 AND #4 AND BEGIN PUMPING OPERATIONS FOR STREAM DIVERSION.
3.) DEWATER CONSTRUCTION AREA, UTILIZING SPECIAL STILLING BASIN(S) FOR PUMPED EFFLUENT.
4.) CONSTRUCT LATERAL TEMPORARY SPECIAL CUT VARIABLE BASE DITCH W/PSRM AND INSTALL 2@36" RCP-IV TEMPORARY PIPES AND CL B RIP RAP AT OUTLET.
5.) EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKES.
6.) REMOVE IMPERVIOUS DIKES #3, #4, PUMP, AND TEMPORARY FLEXIBLE HOSE.
7.) CONSTRUCT –Y30DET– AND SHIFT TRAFFIC ONTO –Y30DET–.



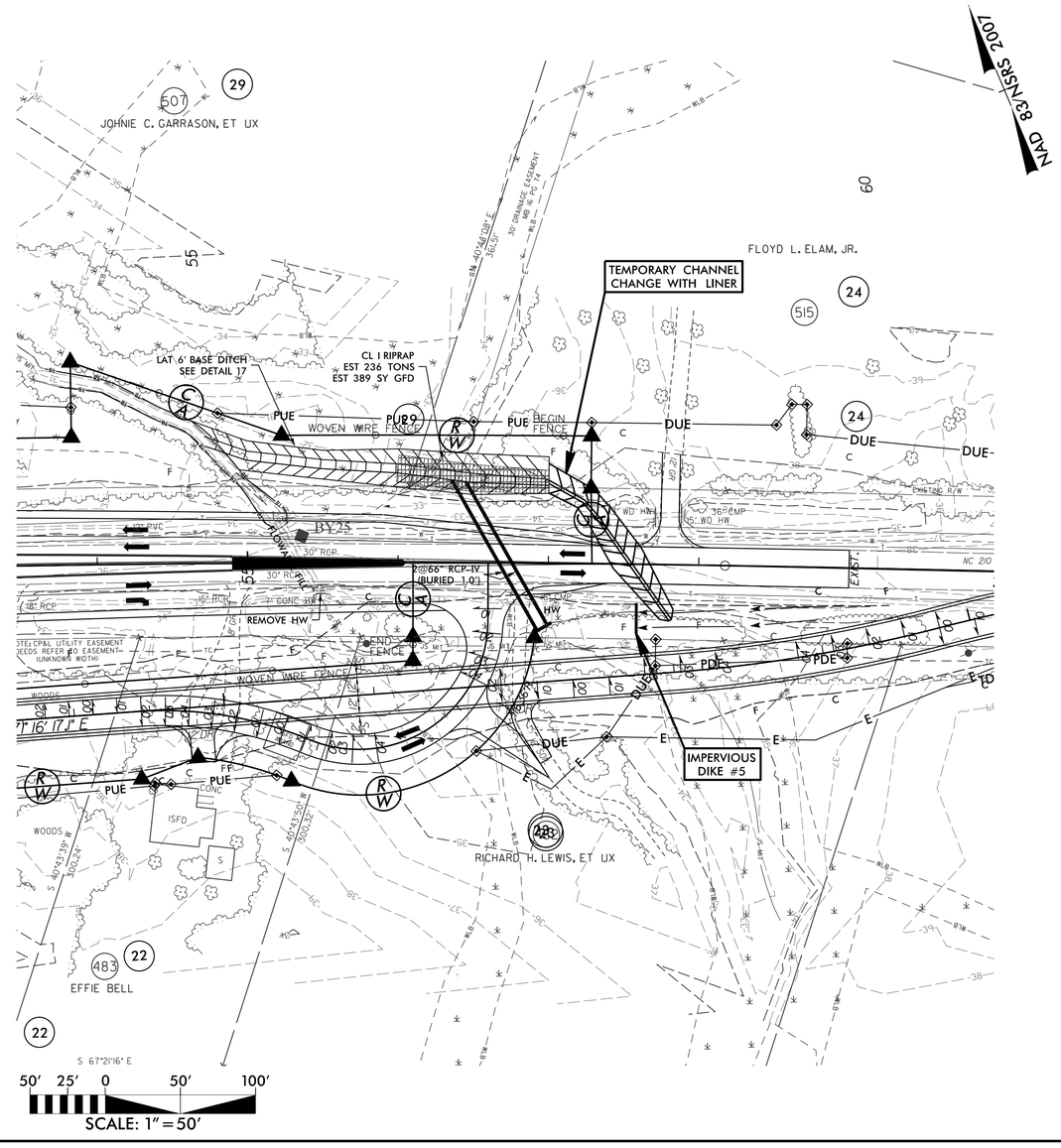
7/2/99

CULVERT CONSTRUCTION SEQUENCE
STA. 56 + 71 –Y30– UT TO HARRISONS CREEK

PROJECT REFERENCE NO.	SHEET NO.
R-3300B	EC-31B/CONST.31
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

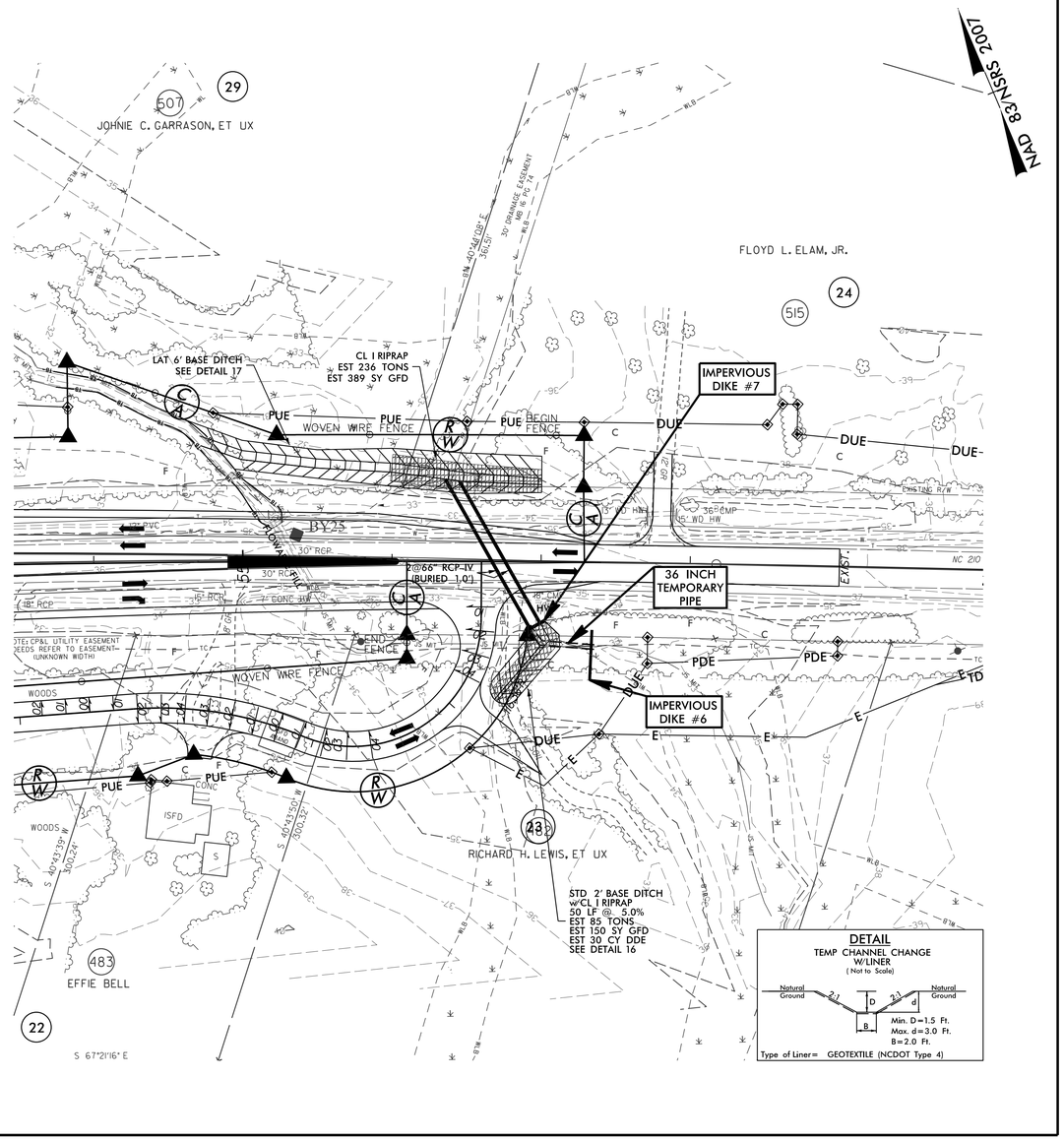
PHASE III

1.) CONSTRUCT TEMPORARY CHANNEL CHANGE W/LINER (SEE DETAIL).
2.) INSTALL IMPERVIOUS DIKE #5 AND DIVERT FLOW INTO TEMPORARY CHANNEL.
3.) DEWATER CONSTRUCTION AREA, UTILIZING SPECIAL STILLING BASIN(S) FOR PUMPED EFFLUENT.
4.) FILL EXISTING 2@30" RCP'S WITH FLOWABLE FILL.
5.) INSTALL 2@66" RCP–IV AND ASSOCIATED HEADWALL.
6.) EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKE.
7.) REMOVE IMPERVIOUS DIKE #5 AND TEMPORARY CHANNEL CHANGE W/LINER.
8.) CONSTRUCT –Y30–.



PHASE IV

1.) SHIFT TRAFFIC ONTO –Y30– AND REMOVE –Y30DET–.
2.) INSTALL IMPERVIOUS DIKES #6 AND #7 AND TEMPORARY 36" PIPE.
3.) CONSTRUCT STANDARD 2' BASE DITCH W/CL I RIP RAP.
4.) EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKES.
5.) REMOVE IMPERVIOUS DIKES, TEMPORARY 36" PIPE, AND ANY REMAINING SPECIAL STILLING BASIN(S).
6.) COMPLETE ROADWAY.



7/2/99

PROJECT REFERENCE NO.	SHEET NO.
R-3300B	EC-32/CONST.32
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 32

NAD 83/NSRS 2007

MATCHLINE -SR8- STA 24+00.00 SEE SHEET 19

-Y16- PT Sta. 23+34.89

-Y16- PC Sta. 21+13.03

-Y16- PT Sta. 20+50.50

-Y16- PC Sta. 16+16.44

-SR8- POT Sta. 32+81.37 — END CONSTRUCTION

-SR8- POT Sta. 32+93.75

-SR8- S 24°40'58.8" E

LONNIE ROBERT WILLIAMS JR.

JAMESTOWN PENDER, LP

MARY S LONDON

AMOS SHEPARD

LORETTA PORTER — NO CLAIM

JAMES LEE LONDON — NO CLAIM

WOODS

STABLE

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

SEE SHEET 2B-1 FOR HORIZONTAL CURVE DATA
SEE SHEET 73 FOR –SR8– PROFILE

7/2/99

PROJECT REFERENCE NO.	SHEET NO.
R-3300B	EC-33/CONST.33
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 33

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

SEE SHEET 2B-1 FOR HORIZONTAL CURVE DATA
SEE SHEET 50 FOR –Y19– PROFILE
SEE SHEET 52 FOR –Y20– PROFILE
SEE SHEET 62 FOR –Y32– PROFILE
SEE SHEET 66 FOR –Y40– PROFILE
SEE SHEET 67 FOR –Y41– PROFILE
SEE SHEET 67 FOR –Y42– PROFILE

NAD 83/NSRS 2007

MATCHLINE –L– STA 225+57.67 THIS SHEET

BEGIN CONSTRUCTION
–Y20– POT Sta. 10+00.00

–L– POT Sta. 226+81.39
–Y19– POT Sta. 10+00.00
BRDG AH=S 41° 58' 21.2" E

–L– POT Sta. 226+62.39
–Y20– POT Sta. 11+65.00
BRDG BK=S 41° 58' 21.2" E

–L– POT Sta. 231+00.00
–Y32– POT Sta. 10+00.00, 16.00' LT
–Y40– POT Sta. 231+00.00, 43.00' RT

–Y32– TS Sta. 12+42.96

MATCHLINE –L– STA 235+00.00 SEE SHEET 23

MATCHLINE –Y19– STA 23+50.00 SEE SHEET 23

–Y19– PC Sta. 20+29.30
–Y42– POT Sta. 10+00.00

–Y42– PC Sta. 10+16.70
BRDG BK=S 62° 05' 35.0" E

–Y42– PT Sta. 10+90.83

–Y42– PT Sta. 13+61.02
BRDG AH=N 48° 06' 56.8" E

–Y42– POT Sta. 14+01.63

–Y42– PC Sta. 12+73.64

–Y42– POT Sta. 11+40.00
END CONSTRUCTION

–Y40– PC Sta. 233+44.00

–Y19– PC Sta. 13+73.16

–Y19– PC Sta. 11+27.45

–Y19– POC Sta. 12+30.00
–Y41– POT Sta. 10+00.00

–Y41– PC Sta. 10+26.83
BRDG BK=S 9° 11' 16.2" E

–Y41– PT Sta. 10+88.04

–Y41– POT Sta. 11+30.00
END CONSTRUCTION

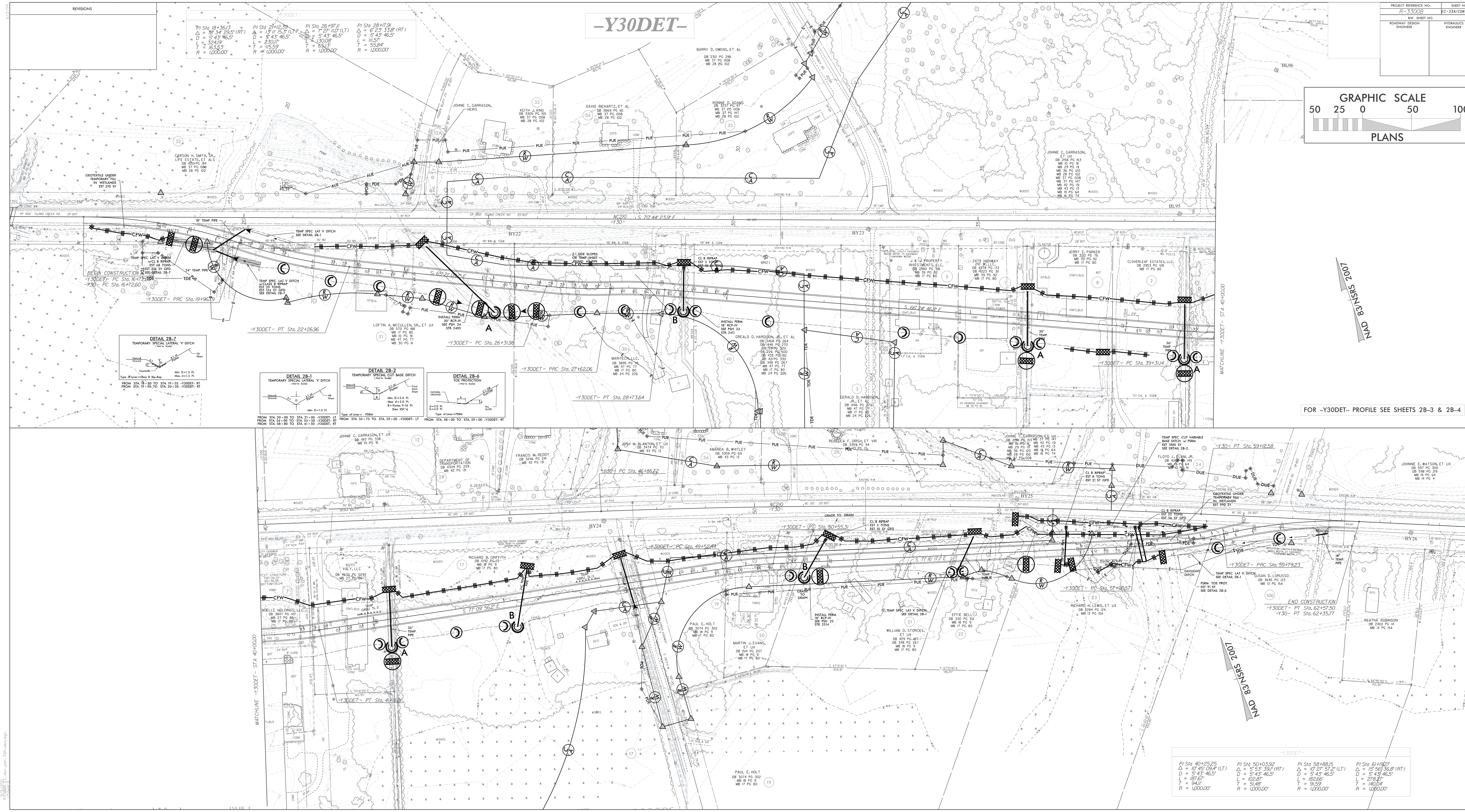
–Y41– POT Sta. 11+77.45
BRDG BK=S 67° 38' 16.8" E

–Y19– PT Sta. 12+54.80
BRDG AH=N 65° 03' 42.1" E

–Y19– PT Sta. 14+92.09

PENDER CO BOARD OF EDUCATION (175)
ROCKY POINT TOPSAIL WATER & SEWER DISTRICT (88)
JEFFERY L. MORRIS, ET UX (109)
SOUTHERN BELL TELEPHONE & TELEGRAPH, CO. (181)
THOMAS R. AMBROGI (179)
MARGARET RAE CAMPBELL NO CLAIM (116)
LUCY N. LACEY (110)
LASHONDA N. ARMSTRONG (107)
DEL-RAE D. DOPPELHEUER (110)
JEFFERY L. MORRIS, ET UX (109)
ANDREWS PROPERTIES, INC. (91)
JENNIFER P. HEYWOOD (90)
NANCY L. JONES TRUSTEE (111)
JAY PATTERSON, ET AL (177)
NATALIE B. ROULEAU, ET AL (178)
THOMAS R. AMBROGI (179)

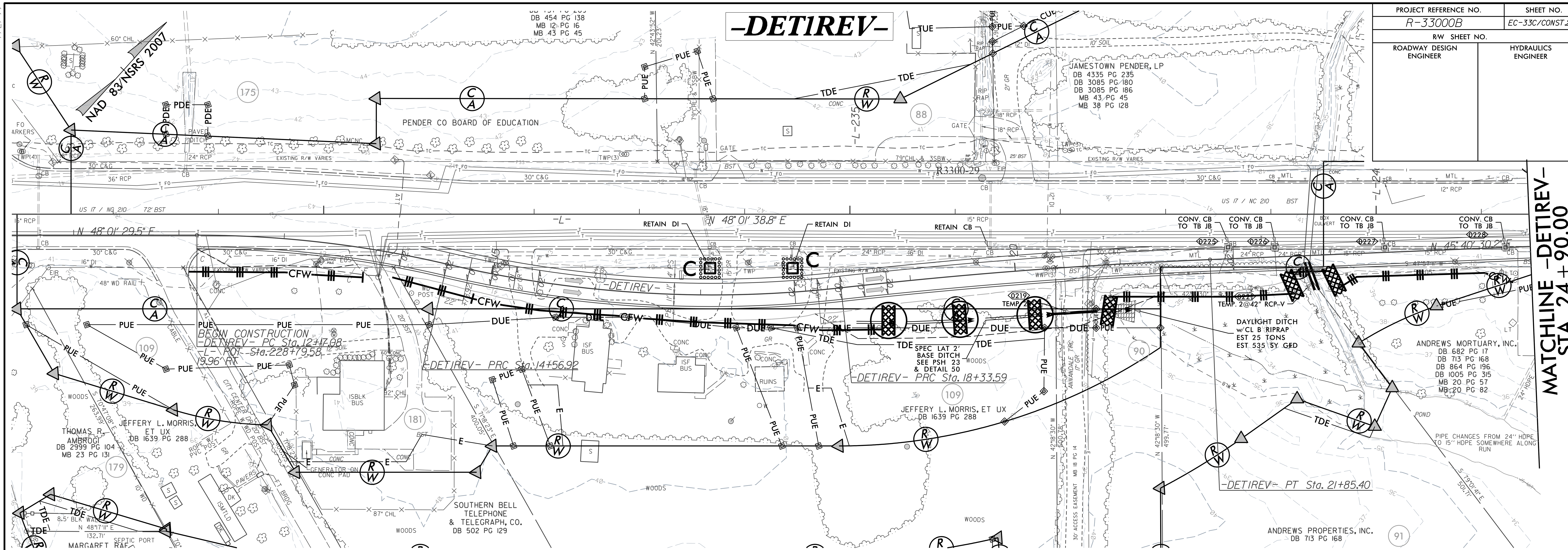
INSET



PROJECT REFERENCE NO.
R-3300B
SHEET NO.
EC-33A/CONST.2B2
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
REVISIONS
-Y30DET-
PI Sta 18+36.13 △ = 18° 34' 29.5" (RT) D = 5° 43' 46.5" L = 324.19' T = 163.53' R = 1,000.00'
PI Sta 21+12.39 △ = 13° 11' 15.3" (LT) D = 5° 43' 46.5" L = 230.17' T = 115.59' R = 1,000.00'
PI Sta 26+97.11 △ = 7° 27' 11.0" (LT) D = 5° 43' 46.5" L = 130.08' T = 65.13' R = 1,000.00'
PI Sta 28+17.91 △ = 6° 23' 33.8" (RT) D = 5° 43' 46.5" L = 111.57' T = 55.84' R = 1,000.00'
GRAPHIC SCALE
50 25 0 50 100
PLANS
NAD 83/NSRS 2007
FOR -Y30DET- PROFILE SEE SHEETS 2B-3 & 2B-4
DETAIL 2B-7
DETAIL 2B-1
DETAIL 2B-2
DETAIL 2B-6
-Y30DET- PT Sta. 22+26.96
-Y30DET- PC Sta. 26+31.98
-Y30DET- PRC Sta. 27+62.06
-Y30DET- PT Sta. 28+73.64
-Y30DET- PC Sta. 39+31.14
END CONSTRUCTION
-Y30DET- PT Sta. 62+57.50
-Y30- PT Sta. 62+35.77
-Y30DET- PRC Sta. 59+79.23
MATCHLINE -Y30DET- STA 40+00.00
PI Sta 40+25.25 △ = 10° 45' 09.4" (LT) D = 5° 43' 46.5" L = 187.67' T = 94.11' R = 1,000.00'
PI Sta 50+03.92 △ = 5° 53' 39.1" (RT) D = 5° 43' 46.5" L = 102.87' T = 51.48' R = 1,000.00'
PI Sta 58+88.15 △ = 10° 27' 57.2" (LT) D = 5° 43' 46.5" L = 182.66' T = 91.59' R = 1,000.00'
PI Sta 61+19.27 △ = 15° 56' 36.8" (RT) D = 5° 43' 46.5" L = 278.27' T = 140.04' R = 1,000.00'

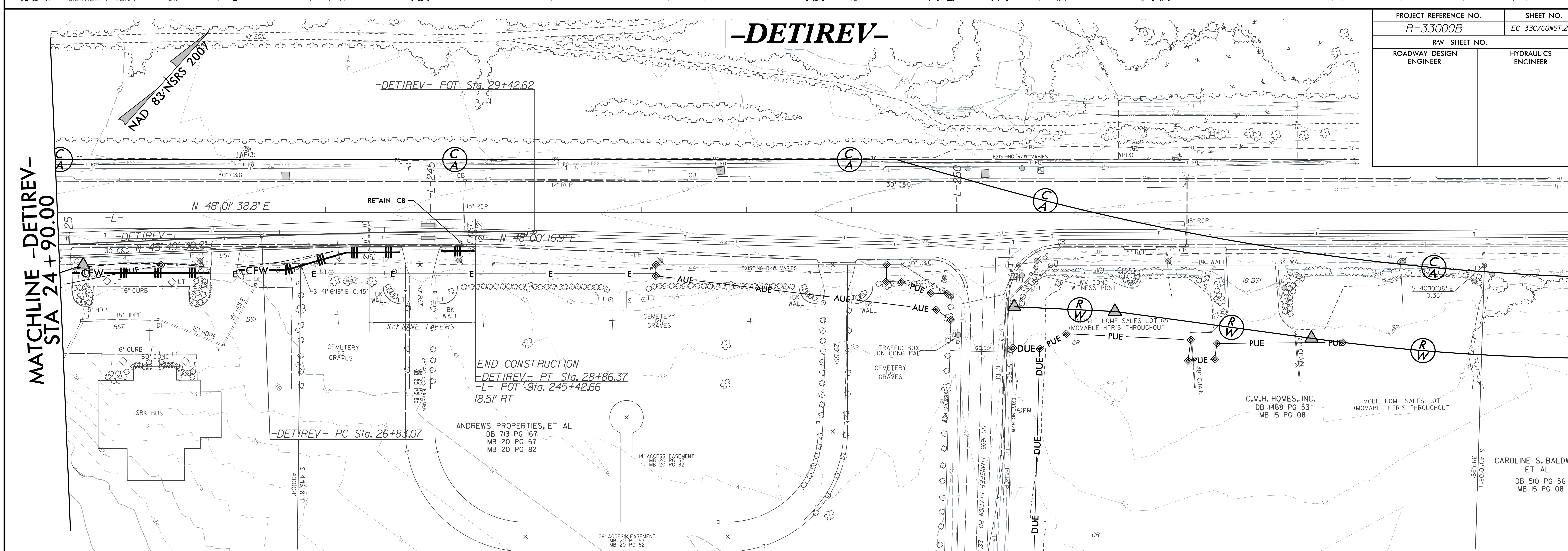

PROJECT REFERENCE NO.
R-3300B
SHEET NO.
EC-33B/CONST.2B5
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
-Y31DET-
NAD 83/NSRS 2007
-Y31-
PI Sta 16+92.05
△ = 13° 58' 40.1" (RT)
D = 5° 24' 18.9"
L = 258.60'
T = 129.94'
R = 1,060.00'
-Y31DET-
PI Sta 19+96.85
△ = 23° 52' 51.1" (RT)
D = 6° 52' 41.7"
L = 347.19'
T = 176.15'
R = 833.00'
SE = .06
RUNOFF = 132'
PI Sta 23+08.85
△ = 19° 12' 33.4" (LT)
D = 6° 52' 41.7"
L = 279.28'
T = 140.96'
R = 833.00'
SE = .06
RUNOFF = 132'
CASTLE BAY PROPERTY OWNERS, ASSOC.
DB 2955 PG 001
MB 41 PG 33
-Y31- PC Sta. 15+62.10
-Y31- PT Sta. 18+20.70
CHARLES E BRYANT
DB 4442 PG 308
ELAINE S. BROWN
DB 4338 PG 31
DB 1562 PG 228
MB 54 PG 111
MB 17 PG 10
RACHEL P. GAINES
DB 1646 PG 234
MB 17 PG 10
THOMAS E. MCFEE, ET AL, TRUSTEES
DB 4134 PG 336
DB 243 PG 19
DB 532 PG 10
MB 17 PG 10
-Y31- PC Sta. 27+13.29
GEOTEXTILE UNDER TEMPORARY FILL IN WETLANDS
EST 810 SY
BY51
BY52
SR 1569 HOOVER RD 20' BST
S 2° 22' 37.5" W
TEMP SPEC LAT V DITCH
SEE DETAIL 2B-3
TEMP STD 2' BASE DITCH
EST 7 CY DDE
SEE DETAIL 2B-4
DAYLIGHT DITCH AT NG
BEGIN CONSTRUCTION
-Y31- PT Sta. 18+20.70
-Y31DET- PC Sta. 18+20.70
-Y31DET- PRC Sta. 21+67.89
ERNEST R. LEWIS
DB 3319 PG 216
MB 5 PG 53
ERNEST D. BRYANT, JR., ET UX
DB 539 PG 90
MB 15 PG 58
ROSE S. BRYANT,ET AL
DB 4329 PG 155
MB 15 PG 58
THELMA B. LENNON
DB 2149 PG 245
MB 34 PG 141
-Y31DET-
S 7° 02' 55.2" W
-Y31DET- PT Sta. 24+47.17
MATCHLINE -Y31DET- STA 29+50.00
DETAIL 2B-3
TEMPORARY SPECIAL LATERAL 'V' DITCH
(Not to Scale)
Natural Ground
4:1 or Flatter
Fill Slope
Min. D=1.0 Ft.
FROM STA. 21+00 TO STA. 22+00 -Y31DET- LT
FROM STA. 30+50 TO STA. 34+50 -Y31DET- LT
FROM STA. 43+50 TO STA. 46+50 -Y31DET- RT
DETAIL 2B-4
TEMPORARY STANDARD BASE DITCH
(Not to Scale)
Min. D=1.0 Ft.
B=2.0 Ft.
STA. 21+50 -Y31DET- RT
STA. 43+25 -Y31DET- LT
-Y31-
PI Sta 31+36.77
△ = 8° 36' 11.5" (RT)
D = 1° 01' 03.7"
L = 845.37'
T = 423.48'
R = 5,630.00'
-Y31DET-
PI Sta 41+70.54
△ = 16° 58' 34.8" (LT)
D = 5° 24' 18.9"
L = 314.07'
T = 158.19'
R = 1,060.00'
SE = .06
RUNOFF = 132'
PI Sta 45+22.00
△ = 20° 54' 28.6" (RT)
D = 5° 24' 18.9"
L = 386.81'
T = 195.58'
R = 1,060.00'
SE = .06
RUNOFF = 132'
MICHAEL NADEAU
DB 1491 PG 004
DB 243 PG 19
DB 532 PG 10
MB 17 PG 10
-Y31- PT Sta. 35+58.66
HOOVER ROAD INVESTMENT LLC
DB 4632 PG 0943
BY53
BY54
TEMP SPEC LAT V DITCH
SEE DETAIL 2B-3
ELAINE B. SPILLER
DB 4298 PG 225
MB 15 PG 58
ELAINE S. BROWN
DB 1584 PG 98
MB 17 PG 10
PROFESSIONAL POWER GROUP INC
DB 4651 PG 1386
PROFESSIONAL POWER GROUP
DB 4617 PG 73
TOM H. JONES ET AL
DB 4607 PG 1693
MARK D. KING, ET UX
DB 1004 PG 275
HERMAN BARANOWSKI, ET
DB 834 PG
-Y31-
S 10° 58' 49.0" W
TEMP STD 2' BASE DITCH
EST 5 CY DDE
SEE DETAIL 2B-4
18" TEMP. RCP-IV
18" RCP-IV TEMP. PIPE
30" RCP-IV TEMP. PIPE
18" TEMP PIPE
CL I RIPRAP
EST 11 TONS
EST 22 SY GFD
CL B RIPRAP
EST 3 TONS
EST 10 SY GFD
BACKFILL EX. CHANNEL TO NG
STD 4' BASE DITCH
EST 432 CY DDE
SEE DETAIL 2B-5
-Y31DET- PC Sta. 40+12.35
-Y31DET- PRC Sta. 43+26.42
ALBERT W. SPILLER
DB 4298 PG 230
MB 15 PG 58
SANDRA K. POWELL
DB 2340 PG 88
MB 19 PG 98
MATCHLINE INSET -Y31DET- STA 44+00.00
DETAIL 2B-5
STANDARD BASE DITCH
(Not to Scale)
Min. D=2.5 Ft.
B=4.0 Ft.
FROM STA. 37+50 TO STA. 40+00 -Y31DET- RT
HILDUR C. SWAIN
DB 1218 PG 86
DB 22 PG 153
MB 17 PG 10
HERMAN T. BARANOWSKI, ET UX
S 10° 58' 49.0" W
R3300_15
TEMP SPEC LAT V DITCH
SEE DETAIL 2B-3
EROSION CONTROL DEVICE AREA
NORMA C. MOORE
END CONSTRUCTION
-Y31- POT Sta. 47+00.00
-Y31DET- PT Sta. 47+13.23
REVISIONS
8/17/99
8/5/2021
R3300B_EC_dsn_psh_33B_det.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-33000B	EC-33C/CONST.2B7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



-DETIREV-
7/2/99
NAD 83/NSRS 2007
DB 454 PG 138
MB 12 PG 16
MB 43 PG 45
PENDER CO BOARD OF EDUCATION
JAMESTOWN PENDER, LP
DB 4335 PG 235
DB 3085 PG 180
DB 3085 PG 186
MB 43 PG 45
MB 38 PG 128
US 17 / NC 210
N 48° 01' 29.5" E
N 48° 01' 38.8" E
N 45° 40' 30.2" E
RETAIN DI
RETAIN CB
CONV. CB TO TB JB
BEGIN CONSTRUCTION
-DETIREV- PC Sta. 12+17.08
-L- POT Sta. 228+79.58
19.96' RT
-DETIREV- PRC Sta. 14+56.92
-DETIREV- PRC Sta. 18+33.59
-DETIREV- PT Sta. 21+85.40
SPEC LAT 2' BASE DITCH
SEE PSH 23
& DETAIL 50
DAYLIGHT DITCH
w/CL B RIPRAP
EST 25 TONS
EST 535 SY GFD
TEMP. 2@42" RCP-V
JEFFERY L. MORRIS, ET UX
DB 1639 PG 288
THOMAS R. AMBROGI
DB 2999 PG 104
MB 23 PG 131
SOUTHERN BELL TELEPHONE & TELEGRAPH, CO.
DB 502 PG 129
ANDREWS MORTUARY, INC.
DB 682 PG 17
DB 713 PG 168
DB 864 PG 196
DB 1005 PG 315
MB 20 PG 57
MB 20 PG 82
PIPE CHANGES FROM 24" HDPE TO 15" HDPE SOMEWHERE ALONG RUN
ANDREWS PROPERTIES, INC.
DB 713 PG 168
30' ACCESS EASEMENT
MATCHLINE -DETIREV- STA 24+90.00

PROJECT REFERENCE NO.	SHEET NO.
R-33000B	EC-33C/CONST.2B8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



-DETIREV-
NAD 83/NSRS 2007
-DETIREV- POT Sta. 29+42.62
MATCHLINE -DETIREV- STA 24+90.00
N 48° 01' 38.8" E
N 45° 40' 30.2" E
N 48° 00' 16.9" E
RETAIN CB
END CONSTRUCTION
-DETIREV- PT Sta. 28+86.37
-L- POT Sta. 245+42.66
18.51' RT
-DETIREV- PC Sta. 26+83.07
100' LANE TAPERS
CEMETERY GRAVES
ISBK BUS
ANDREWS PROPERTIES, ET AL
DB 713 PG 167
MB 20 PG 57
MB 20 PG 82
14' ACCESS EASEMENT
28' ACCESS EASEMENT
TRAFFIC BOX ON CONC PAD
SR 1695 TRANSFER STATION RD
MOBILE HOME SALES LOT (MOVABLE HTR'S THROUGHOUT)
C.M.H. HOMES, INC.
DB 1468 PG 53
MB 15 PG 08
CAROLINE S. BALDWI ET AL
DB 510 PG 56
MB 15 PG 08

7/2/99

PROJECT REFERENCE NO.	SHEET NO.
R-33000B	EC-33D/CONST 2B9
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

–DET2REV–

NAD 83/NSRS 2007

R CO BOARD OF EDUCATION
DB 1522 PG 254
DB 757 PG 209
DB 454 PG 138
MB 12 PG 16
MB 43 PG 45

–DET2REV– POT Sta. 10+00.00

BEGIN CONSTRUCTION
–DET2REV– PC Sta. 10+64.25
–L– POT Sta. 233+64.25

–DET2REV– PRC Sta. 13+34.12

ROCKY POINT TOPSAIL WATER & SEWER DISTRICT
DB 1996 PG 159
MB 12 PG 16
MB 43 PG 45

JAMESTOWN PENDER, LLC
DB 4335 PG 235
DB 3085 PG 180
DB 3085 PG 186
MB 43 PG 45
MB 38 PG 128

JAMESTOWN PENDER, LP
DB 4335 PG 235
DB 3085 PG 180
DB 3085 PG 186
MB 43 PG 45
MB 38 PG 128

END CONSTRUCTION
–DET2REV– PT Sta. 21+43.73
–L– POT Sta. 244+36.95

–DET2REV– PRC Sta. 18+73.86

–DET2REV– POT Sta. 22+06.78

–L– Sta. 233+00

–L– Sta. 235+00

–L– Sta. 240+00

–L– Sta. 245+00

–Y19– Sta. 30+00

–Y32– +80.00 150.00' & 170.00'

–Y32– +35.00 185.00'

–Y32– +00.00 165.00'

–Y32– +20.00 144.80'

–Y19– +15.00 31.49', 40.00' & 42.00'

N 48°01'29" E 319.95'

N 48°01'38.8" E

N 48°00'16.9" E

S 47°45'45" W 28.23'

S 47°57'11" W 58.05'

S 42°18'30" E 2.96'

N 42°18'30" W 25.00'

N 42°18'30" W 495.71'

S 41°16'18" E 0.45'

N 47°39'06.5" E 25.00'

RETAIN HW & 18" RCP

RETAIN CB

RETAIN 18" RCP

REMOVE 18" RCP

REMOVE CB

TEMP. 24" RCP

TEMP. 2@42" RCP

SPEC LAT 2' BASE DITCH SEE DETAIL 2B9–1

SPEC LAT V DITCH SEE DETAIL 2B9–2

30" CMP (PIPE CRUSHED AND PATH HAS ERODED)

TEMP. 36" RCP

PIPE CHANGES FROM 24" HDPE TO 15" HDPE SOMEWHERE ALONG RUN

POND

WOODS

ISBK BUS

CEMETERY & GRAVES

JEFFERY L. MORRIS, ET UX
DB 1639 PG 288

ANDREWS MORTUARY, INC.
DB 682 PG 17
DB 713 PG 168
DB 864 PG 196
DB 1005 PG 315
MB 20 PG 57
MB 20 PG 82

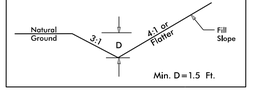
ANDREWS PROPERTIES, ET AL
DB 713 PG 167
MB 20 PG 57
MB 20 PG 82

PUE · TUE · CUE · TDE · DUE

DETAIL 2B9–1
SPECIAL LATERAL 2' BASE DITCH
(Not to Scale)

FROM STA. 14+00 TO STA. 16+50 –DET2REV– LT

DETAIL 2B9–2
SPECIAL LATERAL 'V' DITCH
(Not to Scale)



FROM STA. 16+60 TO STA. 18+00 –DET2REV– LT

8/17/99

DETOUR

-DET3- PC Sta. 11+08.58

BEGIN CONSTRUCTION
-DET3- POT Sta. 10+00.00
-Y19- POT Sta. 52+63.01

-DET3-

DEPARTMENT OF TRANSPORTATION
DB 4306 PG 107
DB 720 PG 180
DB 2290 PG 309
MB 28 PG 18
MB 28 PG 31
MB 28 PG 32
MB 52 PG 55
MB 37 PG 141

NAD 83/NSRS 2007

END CONSTRUCTION
-DET3- POT Sta. 17+00.11
-L- POT Sta. 273+56.43
40.00' RT

-DET3- PRC Sta. 13+49.99

-L-

-Y19-

-DET3- PT Sta. 16+16.34

-Y19- PC Sta. 53+27.35

-Y19- PT Sta. 54+67.07

-Y19- PT Sta. 59+31.90

N 48° 01' 38.8" E

BL161

SPECIAL CUT DITCH
-DET3- 10+02 TO 11+50 LT

TEMP. CRASH WALL
F TL-3

ROCK PLATING
-DET3- 10+00 TO 10+50 RT
SEE SHEET 2G-17
163 SY

CL B RIPRAP
2 TONS.00/
7 SY GEOTEXTILE

HAMPSTEAD INVESTORS, LLC.
DB 1829 PG 272
MB 18 PG 64
MB 20 PG 60

WEATHERSBEE PROPERTIES, INC.
DB 1347 PG 26
DB 766 PG 45
MB 43 PG 95
MB 18 PG 64
MB 10 PG 21

BELVEDERE UTILITY, CO.
DB 697 PG 289
MB 18 PG 42

PI Sta 12+29.55
Δ = 9°13'17.1" (LT)
D = 3°49' 11.0"
L = 241.42'
T = 120.97'
R = 1,500.00'
SE = .04
RUNOFF = 92

PI Sta 14+70.97
Δ = 9°13' 17.1" (RT)
D = 3°49' 11.0"
L = 241.42'
T = 120.97'
R = 1,500.00'
SE = .04
RUNOFF = 92

BEGIN GRADE
-DET3- STA. 10+00.00
ELEV = 44.62'

PI = 12+50.00
EL = 48.31'
VC = 150'
K = 192
DS = 60 mph

(+)1.4760%
(+)0.6935%

END GRADE
-DET3- STA. 17+00.11
EL. = 48.95'

PI = 15+60.00
EL = 50.46'
VC = 150'
K = 85
DS = 50 mph

(+)0.6935%
(-)1.0277%

Dewberry
2610 WYCLIFF ROAD
SUITE 410
RALEIGH, NC 27607
PHONE: 919.881.9939
NC COA No. F-0929

Stantec
Stantec Consulting Services Inc.
801 Jones Franklin Road
Suite 300
Raleigh, NC 27606
Tel. (919) 851-6866
Fax. (919) 851-7024
www.stantec.com
License No. F-0672

PROJECT REFERENCE NO.	SHEET NO.
R-3300B	EC-33E/CONST-2B-10
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

27-SEP-2011 13:59
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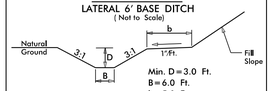
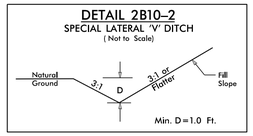




7/2/99

-Y38DET-

NAD 83/NSRS 2007

PROJECT REFERENCE NO.	SHEET NO.
R-3300B	EC-33F/CONST.2B11
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

–LDET6–

NOTE: "50 mph DESIGN SPEED BASED ON METHOD 2 SUPERELEVATION DISTRIBUTION (NCHRP-581)"

Dewberry
2610 WYCLIFF ROAD, SUITE 410, RALEIGH, NC 27607, PHONE: 919.881.9939, NC COA No. F-0929

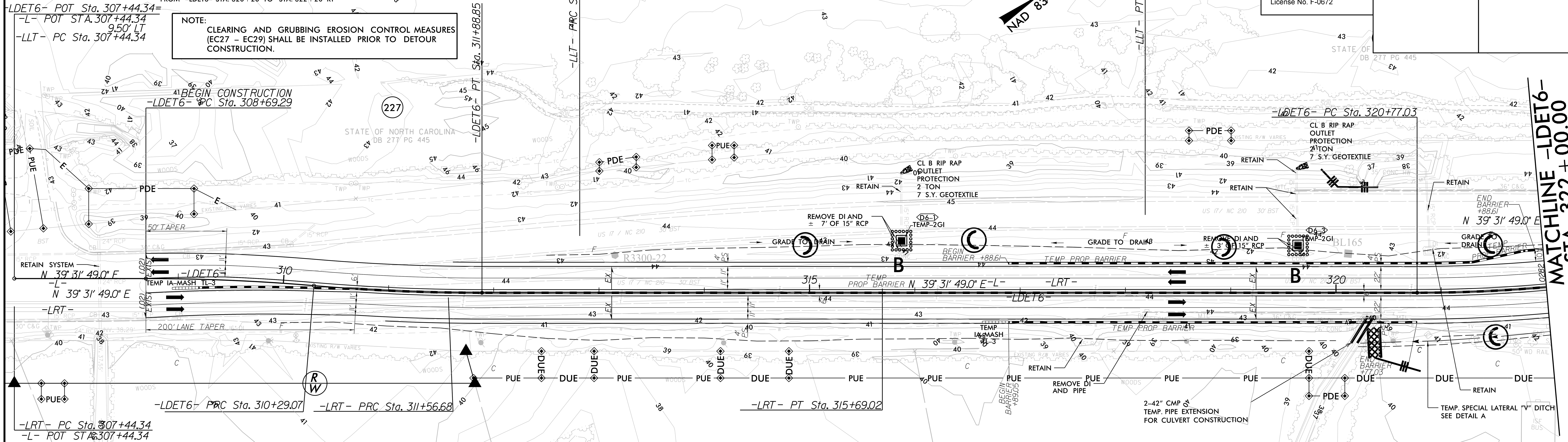
Stantec
Stantec Consulting Services Inc.
801 Jones Franklin Road
Suite 300
Raleigh, NC 27606
Tel. (919) 851-6866
Fax. (919) 851-7024
www.stantec.com
License No. F-0672

PROJECT REFERENCE NO.	SHEET NO.
R-3300B	EC33G/CONST2B-12
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DETAIL A
SPECIAL LATERAL 'V' DITCH
(Not to Scale)
Natural Ground — 3:1 — D — 3:1 — Fill Slope
Min. D = 1.0 Ft.
FROM –LDET6– STA. 320+20 TO STA. 322+20 RT

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 2B-12

NOTE:
CLEARING AND GRUBBING EROSION CONTROL MEASURES (EC27 – EC29) SHALL BE INSTALLED PRIOR TO DETOUR CONSTRUCTION.



–LDET6–

NOTE: "50 mph DESIGN SPEED BASED ON METHOD 2 SUPERELEVATION DISTRIBUTION (NCHRP-581)"

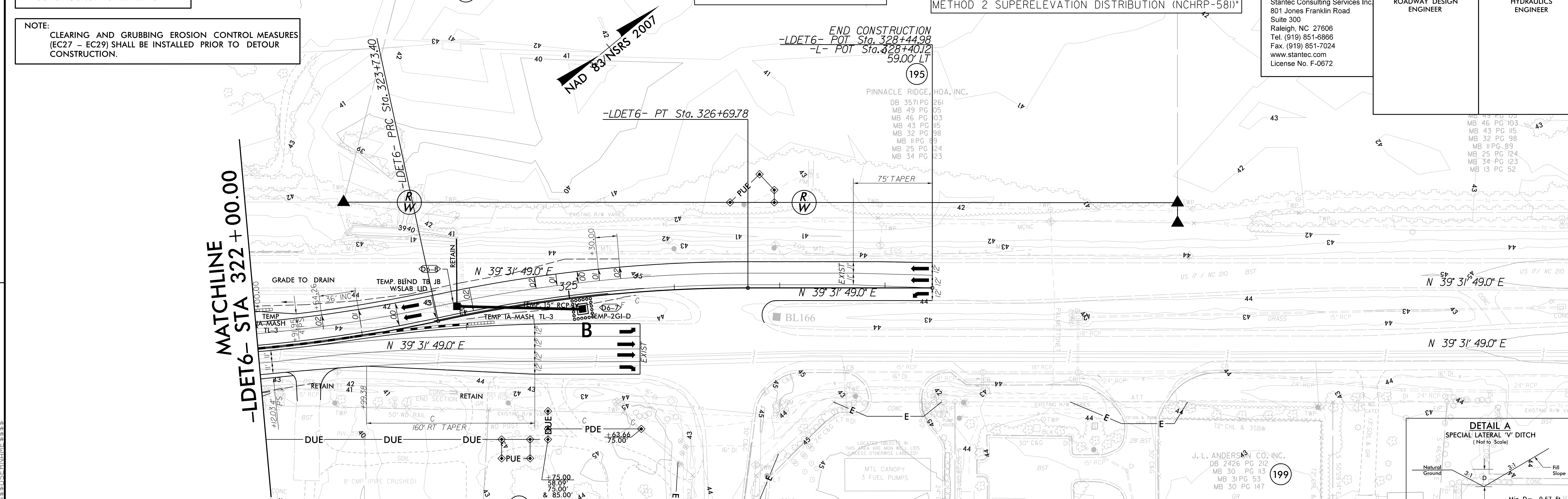
Dewberry
2610 WYCLIFF ROAD, SUITE 410, RALEIGH, NC 27607, PHONE: 919.881.9939, NC COA No. F-0929

Stantec
Stantec Consulting Services Inc.
801 Jones Franklin Road
Suite 300
Raleigh, NC 27606
Tel. (919) 851-6866
Fax. (919) 851-7024
www.stantec.com
License No. F-0672

PROJECT REFERENCE NO.	SHEET NO.
R-3300B	EC33G/CONST2B-13
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 2B-13

NOTE:
CLEARING AND GRUBBING EROSION CONTROL MEASURES (EC27 – EC29) SHALL BE INSTALLED PRIOR TO DETOUR CONSTRUCTION.



DETAIL A
SPECIAL LATERAL 'V' DITCH
(Not to Scale)
Natural Ground — 3:1 — D — 3:1 — Fill Slope
Min. D = 0.57 Ft.

REVISIONS

8/17/99

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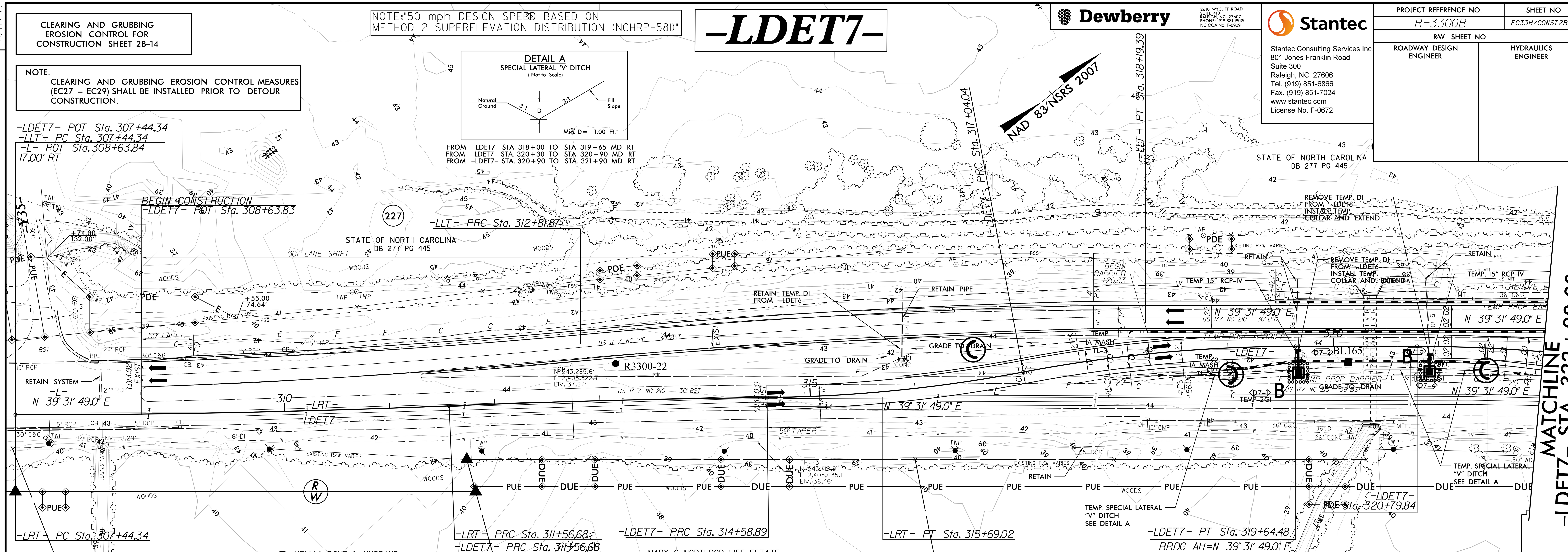

-LDET7-
NOTE: 50 mph DESIGN SPEED BASED ON METHOD 2 SUPERELEVATION DISTRIBUTION (NCHRP-581)
DETAIL A
SPECIAL LATERAL 'V' DITCH
(Not to Scale)
Natural Ground
Fill Slope
Min. D= 1.00 Ft.
FROM -LDET7- STA. 318+00 TO STA. 319+65 MD RT
FROM -LDET7- STA. 320+30 TO STA. 320+90 MD RT
FROM -LDET7- STA. 320+90 TO STA. 321+90 MD RT
-LDET7- POT Sta. 307+44.34
-LLT- PC Sta. 307+44.34
-L- POT Sta. 308+63.84
17.00' RT
BEGIN CONSTRUCTION
-LDET7- POT Sta. 308+63.83
STATE OF NORTH CAROLINA
DB 277 PG 445
-LLT- PRC Sta. 312+81.87
-LRT- PC Sta. 307+44.34
-LRT- PRC Sta. 311+56.68
-LDET7- PRC Sta. 311+56.68
-LDET7- PRC Sta. 314+58.89
-LRT- PT Sta. 315+69.02
-LDET7- PT Sta. 319+64.48
BRDG AH=N 39° 31' 49.0" E
-LDET7- POT Sta. 320+79.84
-LLT- PRC Sta. 317+04.04
-LLT- PT Sta. 318+19.39
NAD 83/NSRS 2007
N 39° 31' 49.0" E
R3300-22
RETAIN SYSTEM
RETAIN TEMP. DI FROM -LDET6-
RETAIN PIPE
GRADE TO DRAIN
REMOVE TEMP. DI FROM -LDET6- INSTALL TEMP. COLLAR AND EXTEND
TEMP. SPECIAL LATERAL "V" DITCH SEE DETAIL A
MATCHLINE -LDET7- STA 322+00.00
KELLIA DOVE & HUSBAND
MARY C. NORTHROP, LIFE ESTATE

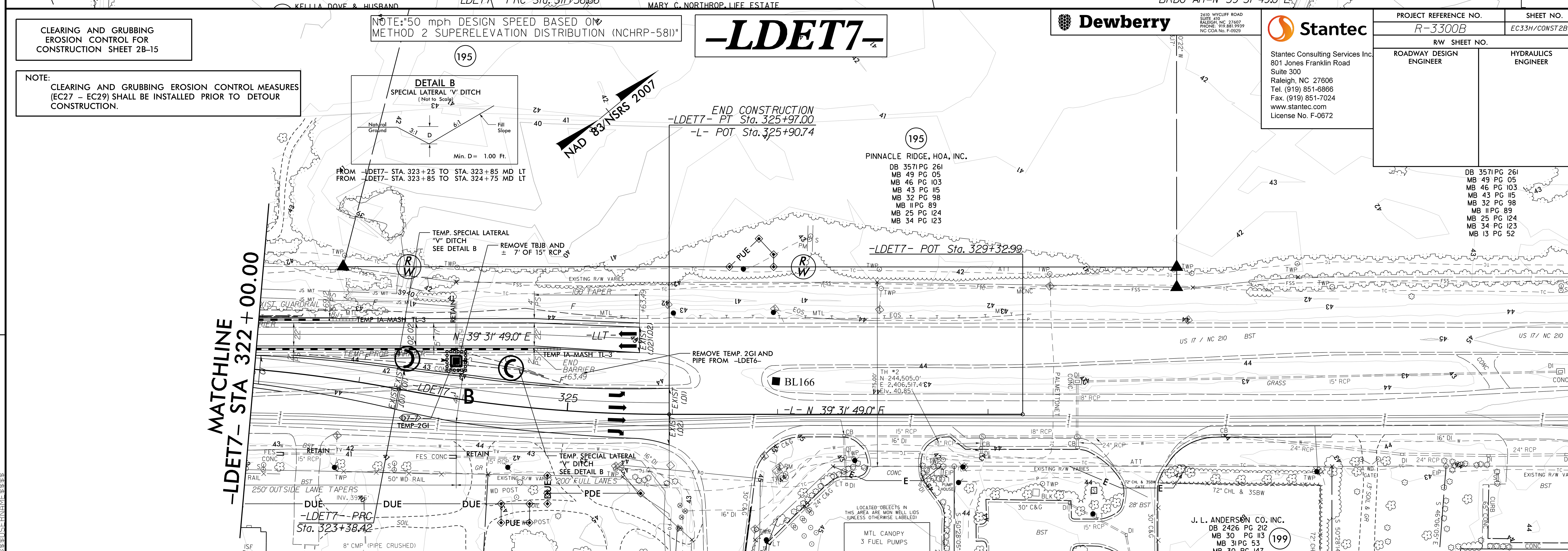
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 2B-14

NOTE:
CLEARING AND GRUBBING EROSION CONTROL MEASURES (EC27 – EC29) SHALL BE INSTALLED PRIOR TO DETOUR CONSTRUCTION.

Dewberry
2610 WYCLIFF ROAD SUITE 410 RALEIGH, NC 27607 PHONE: 919.881.9939 NC COA No. F-0929

Stantec
Stantec Consulting Services Inc.
801 Jones Franklin Road
Suite 300
Raleigh, NC 27606
Tel. (919) 851-6866
Fax. (919) 851-7024
www.stantec.com
License No. F-0672

PROJECT REFERENCE NO.	SHEET NO.
R-3300B	EC33H/CONST2B-14
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER


-LDET7-
NOTE: 50 mph DESIGN SPEED BASED ON METHOD 2 SUPERELEVATION DISTRIBUTION (NCHRP-581)
DETAIL B
SPECIAL LATERAL 'V' DITCH
(Not to Scale)
Natural Ground
Fill Slope
Min. D= 1.00 Ft.
FROM -LDET7- STA. 323+25 TO STA. 323+85 MD LT
FROM -LDET7- STA. 323+85 TO STA. 324+75 MD LT
NAD 83/NSRS 2007
END CONSTRUCTION
-LDET7- PT Sta. 325+97.00
-L- POT Sta. 325+90.74
PINNACLE RIDGE, HOA, INC.
DB 3571 PG 261
MB 49 PG 05
MB 46 PG 103
MB 43 PG 115
MB 32 PG 98
MB 11 PG 89
MB 25 PG 124
MB 34 PG 123
MB 13 PG 52
-LDET7- POT Sta. 329+32.99
TEMP. SPECIAL LATERAL "V" DITCH SEE DETAIL B
REMOVE TBJB AND ± 7' OF 15" RCP
REMOVE TEMP. 2GI AND PIPE FROM -LDET6-
BL166
-L- N 39° 31' 49.0" E
-LDET7- PRC Sta. 323+38.42
MATCHLINE -LDET7- STA 322+00.00
J. L. ANDERSON CO. INC.
DB 2426 PG 212
MB 30 PG 113
MB 31 PG 53
MB 30 PG 147
JEANETTE S. EDENS, ET AL
LOCATED OBJECTS IN THIS AREA ARE MON WELL LIDS (UNLESS OTHERWISE LABELED)
MTL CANOPY 3 FUEL PUMPS

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 2B-15

NOTE:
CLEARING AND GRUBBING EROSION CONTROL MEASURES (EC27 – EC29) SHALL BE INSTALLED PRIOR TO DETOUR CONSTRUCTION.

Dewberry
2610 WYCLIFF ROAD SUITE 410 RALEIGH, NC 27607 PHONE: 919.881.9939 NC COA No. F-0929

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PROJECT REFERENCE NO.	SHEET NO.
R-3300B	EC33H/CONST2B-15
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

8/17/99

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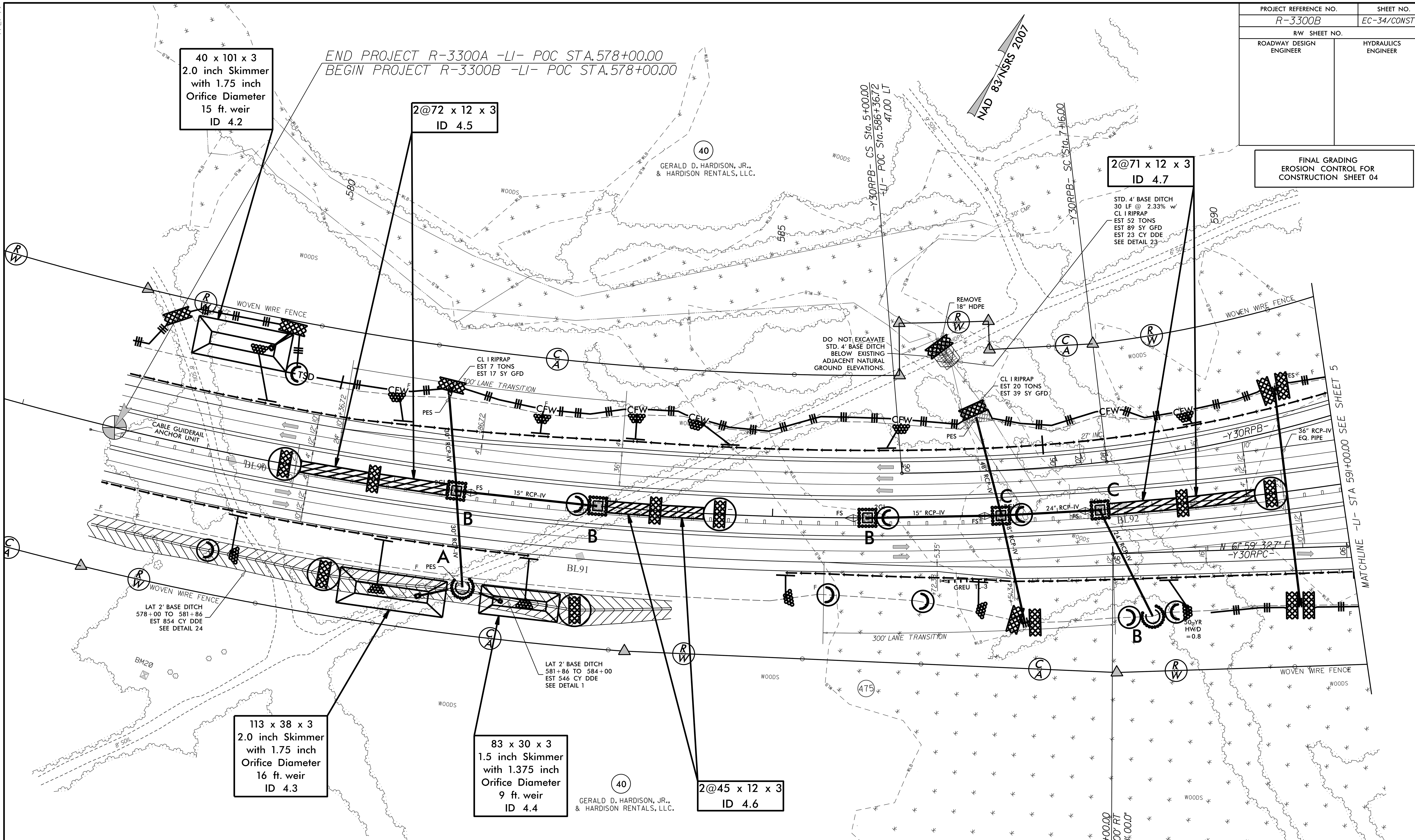
PROJECT REFERENCE NO.	SHEET NO.
R-3300B	EC-34/CONST.04
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 04



END PROJECT R-3300A -LI- POC STA.578+00.00
BEGIN PROJECT R-3300B -LI- POC STA.578+00.00
40 x 101 x 3
2.0 inch Skimmer
with 1.75 inch
Orifice Diameter
15 ft. weir
ID 4.2
2@72 x 12 x 3
ID 4.5
GERALD D. HARDISON, JR., & HARDISON RENTALS, LLC.
NAD 83/NSRS 2007
-Y30RPB- CS Sta. 5+00.00
-LI- POC Sta.586+36.72
47.00 LT
-Y30RPB- SC Sta. 7+16.00
2@71 x 12 x 3
ID 4.7
STD. 4' BASE DITCH
30 LF @ 2.33% w/
CL I RIPRAP
EST 52 TONS
EST 89 SY GFD
EST 23 CY DDE
SEE DETAIL 23
WOVEN WIRE FENCE
REMOVE
18" HDPE
DO NOT EXCAVATE
STD. 4' BASE DITCH
BELOW EXISTING
ADJACENT NATURAL
GROUND ELEVATIONS.
CL I RIPRAP
EST 7 TONS
EST 17 SY GFD
CL I RIPRAP
EST 20 TONS
EST 39 SY GFD
CABLE GUIDERAIL
ANCHOR UNIT
300' LANE TRANSITION
15" RCP-IV
24" RCP-IV
36" RCP-IV
EQ. PIPE
-Y30RPB-
-Y30RPC-
N 61° 59' 32.7" E
MATCHLINE -LI- STA 591+00.00 SEE SHEET 5
LAT 2' BASE DITCH
578+00 TO 581+86
EST 854 CY DDE
SEE DETAIL 24
LAT 2' BASE DITCH
581+86 TO 584+00
EST 546 CY DDE
SEE DETAIL 1
50-YR
HW/D
=0.8
113 x 38 x 3
2.0 inch Skimmer
with 1.75 inch
Orifice Diameter
16 ft. weir
ID 4.3
83 x 30 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
9 ft. weir
ID 4.4
2@45 x 12 x 3
ID 4.6
-Y30RPC- POT Sta. 5+00.00
-LI- POC Sta.588+55.13, 47.00' RT
Δ = 2° 34' 00.0"

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

NOTE: FOR VISUAL CLARITY, ROCK TERMINATORS ARE SHOWN NOT OVERLAPPING SILT FENCE COIR FIBER WATTLE BREAKS. ROCK TERMINATORS MUST BE PLACED AT SLOPE DRAIN OUTLETS.

Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 578+00 to Sta. 586+37 -L1- LT
Sta. 585+15 to Sta. 588+55 -L1- RT
Sta. 5+00 to Sta. 7+50 -Y30RPC- RT
Sta. 5+00 to Sta. 9+60 -Y30RPB- LT

SEE SHEET 2B-1 FOR HORIZONTAL CURVE DATA
SEE SHEET 34 FOR -L1- PROFILE
SEE SHEET 55 FOR -Y30RPB- PROFILE
SEE SHEET 56 FOR -Y30RPC- PROFILE

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-3300B	EC-35/CONST.05
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 05

Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 614+50 to Sta. 619+00 –L1– RT
Sta. 601+50 to Sta. 605+00 –L1– RT
Sta. 19+31 to Sta. 22+50 –SR4– LT
Sta. 20+50 to Sta. 22+00 –SR4– RT
Sta. 30+50 to Sta. 31+50 –SR6– RT
Sta. 31+50 to Sta. 33+50 –Y30– LT
Sta. 34+78 to Sta. 38+50 –Y30– LT
Sta. 41+00 to Sta. 44+00 –Y30– LT
Sta. 45+73 to Sta. 47+87 –Y30– LT
Sta. 29+50 to Sta. 34+00 –Y30– RT
Sta. 34+78 to Sta. 38+50 –Y30– RT
Sta. 41+00 to Sta. 44+50 –Y30– RT
Sta. 45+67 to Sta. 47+00 –Y30– RT
Sta. 6+80 to Sta. 25+40 –Y30RPA– LT
Sta. 10+00 to Sta. 24+50 –Y30RPA– RT
Sta. 9+60 to Sta. 21+50 –Y30RPB– LT
Sta. 17+00 to Sta. 25+50 –Y30RPC– LT
Sta. 7+50 to Sta. 25+50 –Y30RPC– RT
Sta. 11+25 to Sta. 23+50 –Y30RPD– LT
Sta. 23+00 to Sta. 23+50 –Y30RPD– RT

NOTE:
FOR VISUAL CLARITY, ROCK TERMINATORS ARE SHOWN NOT OVERLAPPING SILT FENCE COIR FIBER WATTLE BREAKS. ROCK TERMINATORS MUST BE PLACED AT SLOPE DRAIN OUTLETS.

SEE SHEET 2B–1 FOR HORIZONTAL CURVE DATA
SEE SHEETS 34 & 35 FOR –L1– PROFILE
SEE SHEET 53 FOR –Y30– PROFILE
SEE SHEETS 54 & 55 FOR –Y30RPA– PROFILE
SEE SHEETS 55 & 56 FOR –Y30RPB– PROFILE
SEE SHEETS 56 & 57 FOR –Y30RPC– PROFILE
SEE SHEETS 57 & 58 FOR –Y30RPD– PROFILE
SEE SHEETS 69 & 70 FOR –SR6– PROFILE

9/1/2021
R3300B_EC_dsn_psh_35_fg.dgn
rhoward

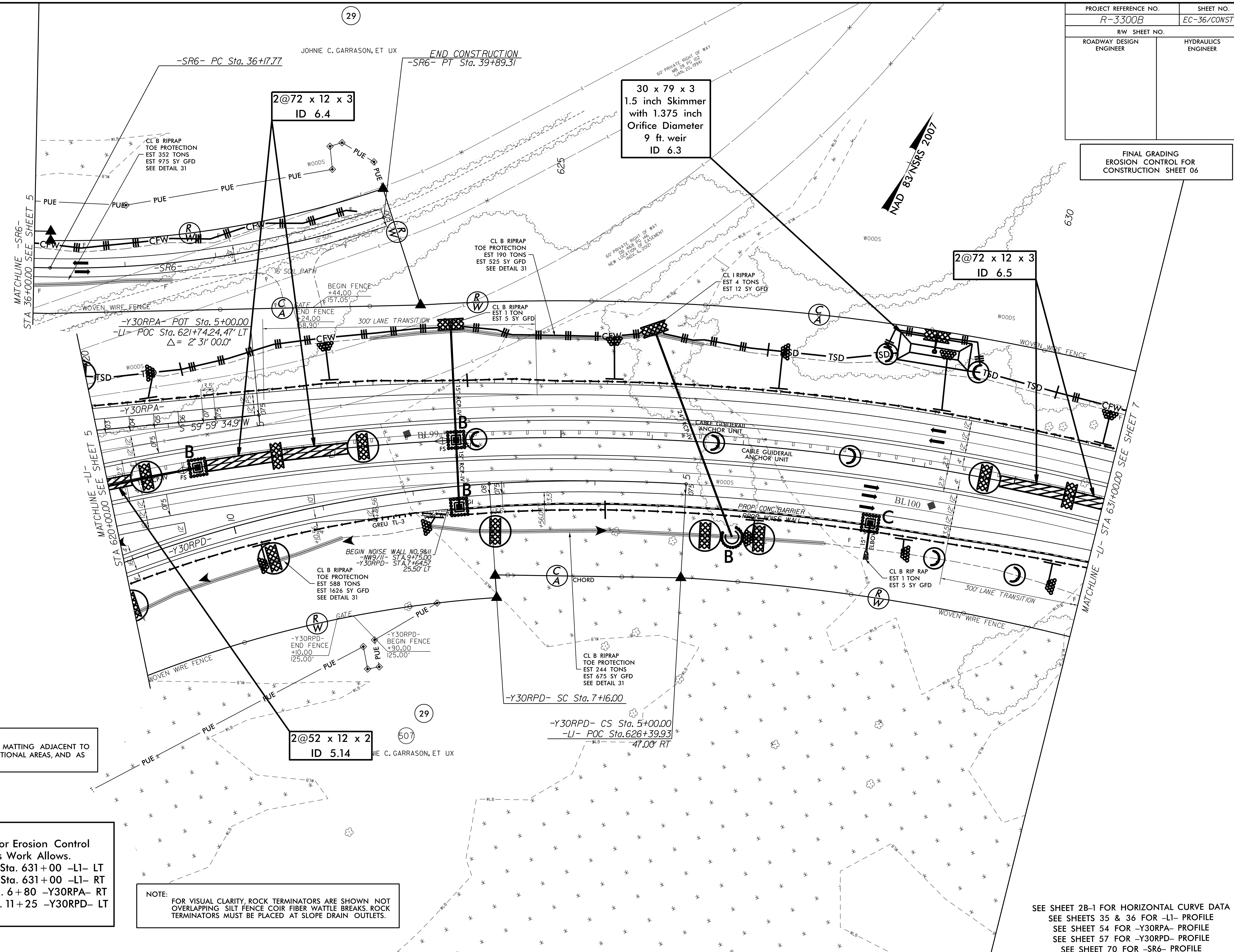
PROJECT REFERENCE NO.	SHEET NO.
R-3300B	EC-36/CONST.06

R/W SHEET NO.

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 06



29
JOHNIE C. GARRASON, ET UX
-SR6- PC Sta. 36+17.77
END CONSTRUCTION
-SR6- PT Sta. 39+89.31
2@72 x 12 x 3
ID 6.4
30 x 79 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
9 ft. weir
ID 6.3
NAD 83/NSRS 2007
CL B RIPRAP
TOE PROTECTION
EST 352 TONS
EST 975 SY GFD
SEE DETAIL 31
MATCHLINE -SR6- STA 36+00.00 SEE SHEET 5
CL B RIPRAP
TOE PROTECTION
EST 190 TONS
EST 525 SY GFD
SEE DETAIL 31
CL I RIPRAP
EST 4 TONS
EST 12 SY GFD
2@72 x 12 x 3
ID 6.5
WOODS
BEGIN FENCE
END FENCE
300' LANE TRANSITION
CL B RIPRAP
EST 1 TON
EST 5 SY GFD
-Y30RPA- POT Sta. 5+00.00
-L1- POC Sta. 621+74.24, 47' LT
△= 2° 31' 00.0"
-Y30RPA-
S 59° 59' 34.9" W
BL99
BL100
CABLE GUIDERAIL ANCHOR UNIT
PROP. CONC. BARRIER
PROP. NOISE WALL
WOVEN WIRE FENCE
MATCHLINE -L1- STA 620+00.00 SEE SHEET 5
MATCHLINE -L1- STA 631+00.00 SEE SHEET 7
-Y30RPD-
BEGIN NOISE WALL NO. 9&11
-NW9/11- STA.9+75.00
-Y30RPD- STA.7+64.57
25.50' LT
CL B RIPRAP
TOE PROTECTION
EST 588 TONS
EST 1626 SY GFD
SEE DETAIL 31
CL B RIP RAP
EST 1 TON
EST 5 SY GFD
CHORD
-Y30RPD-
END FENCE
+10.00
125.00'
-Y30RPD-
BEGIN FENCE
+90.00
125.00'
CL B RIPRAP
TOE PROTECTION
EST 244 TONS
EST 675 SY GFD
SEE DETAIL 31
-Y30RPD- SC Sta. 7+16.00
-Y30RPD- CS Sta. 5+00.00
-L1- POC Sta.626+39.93
47.00' RT
2@52 x 12 x 2
ID 5.14
JOHNIE C. GARRASON, ET UX
625
630

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

Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 621+74 to Sta. 631+00 -L1- LT
Sta. 626+40 to Sta. 631+00 -L1- RT
Sta. 5+00 to Sta. 6+80 -Y30RPA- RT
Sta. 5+00 to Sta. 11+25 -Y30RPD- LT

NOTE:
FOR VISUAL CLARITY, ROCK TERMINATORS ARE SHOWN NOT OVERLAPPING SILT FENCE COIR FIBER WATTLE BREAKS. ROCK TERMINATORS MUST BE PLACED AT SLOPE DRAIN OUTLETS.

SEE SHEET 2B-1 FOR HORIZONTAL CURVE DATA
SEE SHEETS 35 & 36 FOR -L1- PROFILE
SEE SHEET 54 FOR -Y30RPA- PROFILE
SEE SHEET 57 FOR -Y30RPD- PROFILE
SEE SHEET 70 FOR -SR6- PROFILE

7/2/99

PROJECT REFERENCE NO.	SHEET NO.
R-3300B	EC-37/CONST.07
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 07

NAD 83/NSRS 2007

30 x 100 x 3
1.5 inch Skimmer
with 1.5 inch
Orifice Diameter
12 ft. weir
ID 7.3

2@72 x 12 x 3
ID 7.4

70 x 12 x 3
ID 7.5

2@72 x 12 x 3
ID 6.5

MATCHLINE -L1- STA 631+00.00 SEE SHEET 6

MATCHLINE -L1- STA 641+50.00 SEE SHEET 8

-Y45- POT Sta. 10+00.00
BRDG AH=S 0° 05' 14.0" E

-L1- POS Sta.638+39.73
-Y38- POT Sta.12+36.51

-L1- CS Sta.636+35

-L1- ST Sta.639+95.10

-Y45- POT Sta.15+15.03

END CONSTRUCTION

BEGIN NOISE WALL NO.10
-NW10- STA 9+96.31
-L1- STA 638+07.79
60.41' LT

29 JOHNIE C. GARRASON, ET UX

37 WILLIAM D. STORCKS, ET UX

38 MICHAEL D. MCKERY, ET UX

39 MICHAEL R. DESHAIRES

41 KATIE POSTHUMA, ET AL

36 FRANK R. KRYNICK, ET UX

112 TRACY F. H. FESTA

113 JUDY L. PRIDGEN, ET VIR

LANDLOCKED PROPERTY

WOODS

WOVEN WIRE FENCE

CHORD

CL B RIPRAP
TOE PROTECTION
EST 71 TONS
EST 195 SY GFD
SEE DETAIL 31

CL I RIPRAP
EST 11 TONS
EST 22 SY GFD

CL I RIPRAP
26 TONS
50 SY GFD

CL B RIPRAP
EST 1 TON
EST 5 SY GFD

CL B RIP RAP
EST 1 TONS
EST 5 SY GFD

CL B RIPRAP
EST 2 TONS
EST 7 SY GFD

CL B RIPRAP
EST 3 TONS
EST 10 SY GFD

CL B RIPRAP
EST 20 TONS
EST 45 SY GFD

LAT 4' BASE DITCH
635+50 TO 642+75
EST 2524 CY DDE
SEE DETAIL 13

STD V DITCH
110 LF @ 0.5%
EST 27 CY DDE
SEE DETAIL 69

STD V DITCH
80 LF @ 0.5%
EST 20 CY DDE
SEE DETAIL 69

STD V DITCH
110 LF @ 0.5%
EST 11 CY DDE
SEE DETAIL 69

STD V DITCH
85 LF @ 0.5%
EST 22 CY DDE
SEE DETAIL 69

REMOVE
15" CMP

RETAIN
12" CMP

PROP. NOISE WALL
PROP CONC. BARRIER

FUTURE MAINTENANCE ACCESS POINT

10' DRAINAGE EASEMENT
MB 16 PG 74

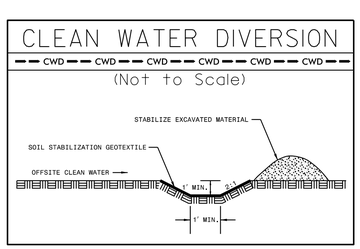
20' DRAINAGE EASEMENT
MB 16 PG 74

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

Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 631+00 to Sta. 641+50 –L1– LT
Sta. 631+00 to Sta. 634+00 –L1– RT

NOTE:
FOR VISUAL CLARITY, ROCK TERMINATORS ARE SHOWN NOT OVERLAPPING SILT FENCE COIR FIBER WATTLE BREAKS. ROCK TERMINATORS MUST BE PLACED AT SLOPE DRAIN OUTLETS.

CLEAN WATER DIVERSION
(Not to Scale)



SEE SHEET 2B-1 FOR HORIZONTAL CURVE DATA
SEE SHEET 36 FOR –L1– PROFILE

7/2/99

PROJECT REFERENCE NO.	SHEET NO.
R-3300B	EC-38/CONST.08
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 08

NAD 83/NSRS 2007

MATCHLINE -L1- STA 641+50.00 SEE SHEET 7

MATCHLINE -L1- STA 653+00.00 SEE SHEET 9

-L1- TS Sta. 652+65.80

45 x 12 x 3
ID 8.6

66 x 33 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
8 ft. weir
ID 8.3

54 x 12 x 3
ID 8.7

2@41 x 12 x 3
ID 8.4

2@72 x 12 x 3
ID 8.5

BM24

MICHAEL R. DESHAIRES (39)

PAMELA S. WARNER (42)

JORGE M. LEANDRO (539)

KATIE POSTHUMA, ET AL (529)

ROBERTO M. RODRIGUEZ, ET UX (530)

THOMAS E. ASH, ET UX (534)

FRANK GOVERNALE, ET UX (44)

RANDY W. APONTE, ET UX (43)

SIMON W. SANDERS, III, ET UX (538)

BRICK YARD BRANCH

BACKFILL EX. CHANNEL TO NG ELEV.

CHANNEL CHANGE
6' BASE w/CL I
RIPRAP KEYED-IN
90 LF @ 0.80%
EST 212 TONS
EST 354 SY GFD
EST 167 CY DDE
SEE DETAIL 28

CHANNEL CHANGE
4' BASE w/CL I
RIPRAP KEYED-IN
EST 57 TON
EST 98 SY GFD
EST 36 CY DDE
SEE DETAIL 27

WOVEN WIRE FENCE

PROP CONC BARRIER
PROP NOISE WALL

FUTURE MAINTENANCE ACCESS POINT

CABLE GUIDERAIL ANCHOR UNIT

CL I RIPRAP AT EMBANKMENT
EST 60 TONS
EST 104 SY GFD
SEE DETAIL 29

CL B RIPRAP
EST 3 TONS
EST 10 SY GFD

LAT 4' BASE DITCH
635+50 TO 642+75
EST 2524 CY DDE
SEE DETAIL 13

LAT 4' BASE DITCH
646+50 TO 654+50
EST 1849 CY DDE
SEE DETAIL 58

CL I RIPRAP
EST 11 TONS
EST 22 SY GFD

LAT 4' BASE DITCH
SEE DETAIL 58

Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 641+50 to Sta. 653+00 -L1- LT
Sta. 643+00 to Sta. 644+00 -L1- RT
Sta. 646+50 to Sta. 653+00 -L1- RT

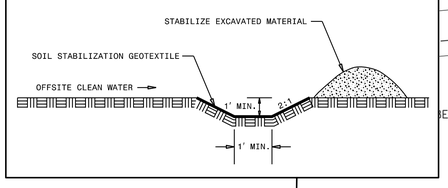
NOTE:
UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS/JURISDICTIONAL AREAS, AND AS DIRECTED.

NOTE:
FOR VISUAL CLARITY, ROCK TERMINATORS ARE SHOWN NOT OVERLAPPING SILT FENCE COIR FIBER WATTLE BREAKS. ROCK TERMINATORS MUST BE PLACED AT SLOPE DRAIN OUTLETS.

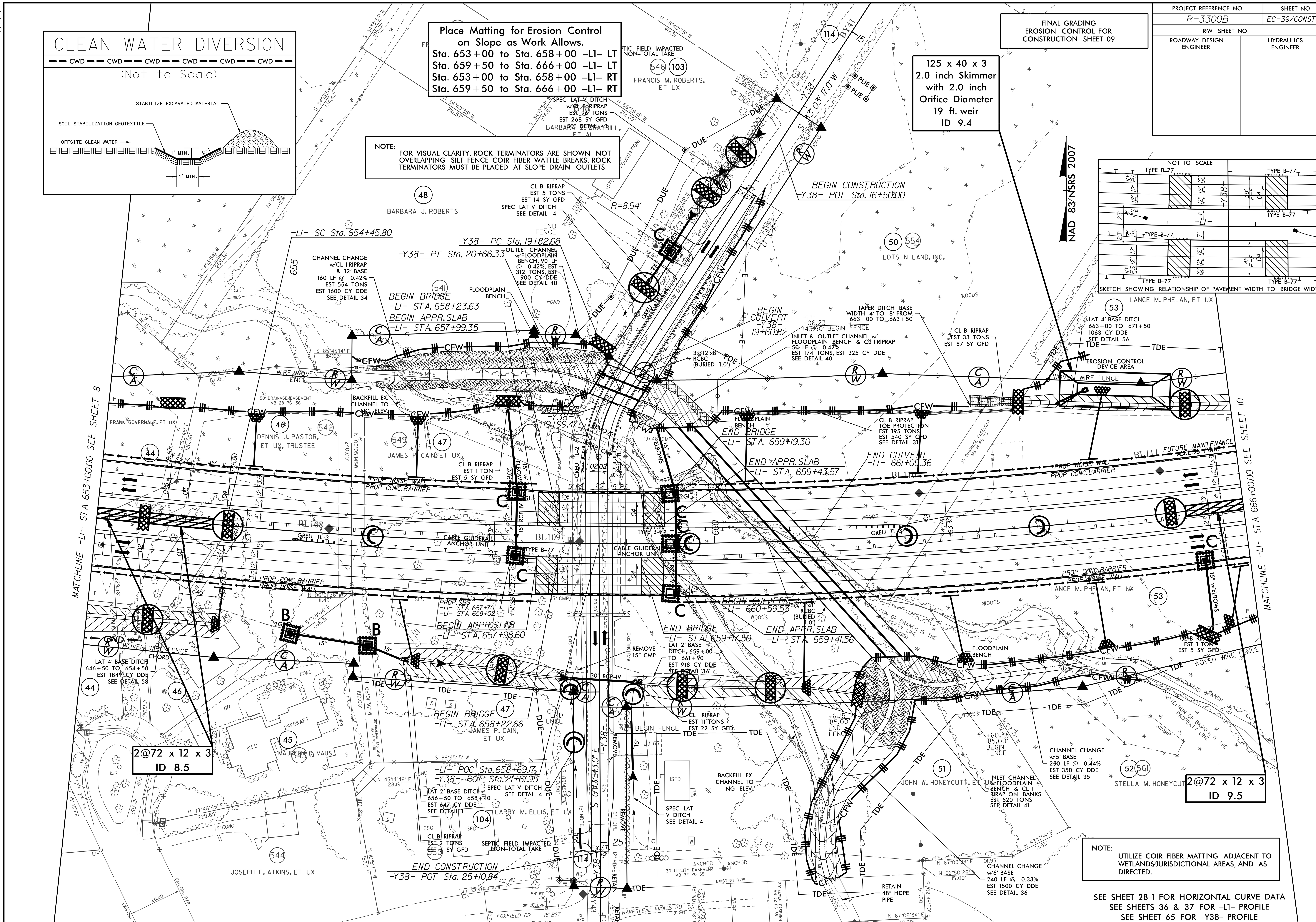
CLEAN WATER DIVERSION

CWD CWD CWD CWD CWD CWD CWD

(Not to Scale)



SEE SHEET 2B-1 FOR HORIZONTAL CURVE DATA
SEE SHEET 36 FOR -L1- PROFILE



PROJECT REFERENCE NO.
R-3300B
SHEET NO.
EC-39/CONST.09
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 09
CLEAN WATER DIVERSION
CWD
(Not to Scale)
STABILIZE EXCAVATED MATERIAL
SOIL STABILIZATION GEOTEXTILE
OFFSITE CLEAN WATER
1' MIN.
2:1
Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 653+00 to Sta. 658+00 -L1- LT
Sta. 659+50 to Sta. 666+00 -L1- LT
Sta. 653+00 to Sta. 658+00 -L1- RT
Sta. 659+50 to Sta. 666+00 -L1- RT
NOTE:
FOR VISUAL CLARITY, ROCK TERMINATORS ARE SHOWN NOT OVERLAPPING SILT FENCE COIR FIBER WATTLE BREAKS. ROCK TERMINATORS MUST BE PLACED AT SLOPE DRAIN OUTLETS.
125 x 40 x 3
2.0 inch Skimmer
with 2.0 inch
Orifice Diameter
19 ft. weir
ID 9.4
NAD 83/NSRS 2007
NOT TO SCALE
TYPE B-77
SKETCH SHOWING RELATIONSHIP OF PAVEMENT WIDTH TO BRIDGE WIDTH
BEGIN CONSTRUCTION
-Y38- POT Sta. 16+50.00
-L1- SC Sta. 654+45.80
-Y38- PC Sta. 19+82.68
-Y38- PT Sta. 20+66.33
BEGIN BRIDGE
-L1- STA. 658+23.63
BEGIN APPR. SLAB
-L1- STA. 657+99.35
END BRIDGE
-L1- STA. 659+19.30
END APPR. SLAB
-L1- STA. 659+43.57
END CULVERT
-L1- 661+09.36
BEGIN CULVERT
-Y38-
19+60.82
BEGIN CULVERT
-L1- 660+59.53
END BRIDGE
-L1- STA. 659+17.50
END APPR. SLAB
-L1- STA. 659+41.56
BEGIN APPR. SLAB
-L1- STA. 657+98.60
BEGIN BRIDGE
-L1- STA. 658+22.66
-L1- POC Sta. 658+69.17
-Y38- POT Sta. 21+61.95
END CONSTRUCTION
-Y38- POT Sta. 25+10.84
MATCHLINE -L1- STA 653+00.00 SEE SHEET 8
MATCHLINE -L1- STA 666+00.00 SEE SHEET 10
2@72 x 12 x 3
ID 8.5
2@72 x 12 x 3
ID 9.5
FRANCIS M. ROBERTS, ET UX
BARBARA J. ROBERTS
LOTS N LAND, INC.
LANCE M. PHELAN, ET UX
FRANK GOVERNALE, ET UX
DENNIS J. PASTOR, ET UX, TRUSTEE
JAMES P. CAIN, ET UX
MAUREEN C. MAUS
LARRY M. ELLIS, ET UX
JOSEPH F. ATKINS, ET UX
JOHN W. HONEYCUTT, ET UX
STELLA M. HONEYCUTT
NOTE:
UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS/JURISDICTIONAL AREAS, AND AS DIRECTED.
SEE SHEET 2B-1 FOR HORIZONTAL CURVE DATA
SEE SHEETS 36 & 37 FOR -L1- PROFILE
SEE SHEET 65 FOR -Y38- PROFILE

7/2/99

PROJECT REFERENCE NO.	SHEET NO.
R-3300B	EC-40/CONSTJO
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 10

Place Matting for Erosion Control on Slope as Work Allows.
Sta. 666+00 to Sta. 668+25 –L1– LT
Sta. 673+10 to Sta. 679+00 –L1– LT
Sta. 666+00 to Sta. 679+00 –L1– RT

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

NOTE: FOR VISUAL CLARITY, ROCK TERMINATORS ARE SHOWN NOT OVERLAPPING SILT FENCE COIR FIBER WATTLE BREAKS. ROCK TERMINATORS MUST BE PLACED AT SLOPE DRAIN OUTLETS.

MATCHLINE –L1– STA 666+00.00 SEE SHEET 9

MATCHLINE –L1– STA 679+00.00 SEE SHEET 11

NAD. 83/NSRS 2007

MICHAEL M. SPAHR

LANCE M. PHELAN, ET UX

ELIZABETH A. MOBLEY

JOSHUA D. PENNINGTON

RALPH S. PENNINGTON, ET UX

LANDLOCKED PROPERTY

STD 2' BASE DITCH w/CL I RIPRAP 90 LF @ 4.0% EST 140 TONS EST 247 SY GFD WOODS EST 88 CY DDE SEE DETAIL 16

LAT 4' BASE DITCH 663+00 TO 671+50 1063 CY DDE SEE DETAIL 5A

LAT 2' BASE DITCH 677+50 TO 683+00 EST 1822 CY DDE SEE DETAIL 24

CL B RIPRAP EST 3 TONS EST 10 SY GFD

CL B RIPRAP TOE PROTECTION EST 109 TONS EST 300 SY GFD SEE DETAIL 31

CL B RIPRAP EST 1 TON EST 5 SY GFD

END NOISE WALL NO.10 -NW10- STA 675+79.00 -L- STA 676+92.70 60.56' LT

PROP. NOISE WALL
PROP. CONC. BARRIER

WOVEN WIRE FENCE

CFW

TSD

2@72 x 12 x 3
ID 9.5

52 x 25 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
5 ft. weir
ID 10.3

28 x 163 x 3
2.0 inch Skimmer
with 1.875 inch
Orifice Diameter
17 ft. weir
ID 10.1

58 x 28 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
6 ft. weir
ID 10.2

2@72 x 12 x 3
ID 10.5

63 x 31 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
7 ft. weir
ID 10.4

BREACH DAM

ENERGY DISSIPATOR BASIN w/CL I RIPRAP EST 93 TONS EST 124 SY GFD EST 50 CY DDE SEE DETAIL 47

STD. 4' BASE DITCH 80 LF @ 4.0% EST 300 CY DDE SEE DETAIL 56

REMOVE CMP & OUTLET STRUCTURE

NOTE: RUN OF BRANCH IS THE PROPERTY LINE (FROM GIS)

SEE SHEET 2B-1 FOR HORIZONTAL CURVE DATA
SEE SHEETS 37 FOR –L1– PROFILE

7/2/99

PROJECT REFERENCE NO.	SHEET NO.
R-3300B	EC-4I/CONSTJI
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 11

NAD 83/NSRS 2007

MATCHLINE -L1- STA 679+00.00 SEE SHEET 10

MATCHLINE -L1- STA 693+00.00 SEE SHEET 12

568

57 RALPH S. PENNINGTON, ET UX

680

685

690

WOODS

-L1- CS Sta. 690+57.24

-L1- ST Sta. 692+37.24

CHORD

STD. 2' BASE DITCH
120 LF @ 1.3%
EST 250 CY DDE
SEE DETAIL 10

LAT 2' BASE DITCH
677+50 TO 683+00
EST 1822 CY DDE
SEE DETAIL 24

REMOVE
15" HDPE

WOVEN WIRE FENCE

EROSION CONTROL
DEVICE AREA

CL B RIPRAP
TOE PROTECTION
EST 455 TONS
EST 1284 SY GFD
SEE DETAIL 31

TDE

CFW

GREU TL-3

BL116

BL117

15" RCP-IV

FS

PROP. CONC. BARRIER
PROP. NOISE WALL

CABLE GUIDERAIL
ANCHOR UNIT

TSD

RIPRAP
EST 2 TON
EST 7 SY GFD

2@65 x 12 x 3
ID 11.2

38 x 176 x 3
2.5 inch Skimmer
with 2.25 inch
Orifice Diameter
26 ft. weir
ID 11.1

BM26

BM27

N 54°50'44.0" E

N 04°10'29" W
175.00

N 04°10'29" W
268.06

Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 679+00 to Sta. 680+80 –L1– LT
Sta. 685+25 to Sta. 690+90 –L1– LT
Sta. 679+00 to Sta. 693+00 –L1– RT

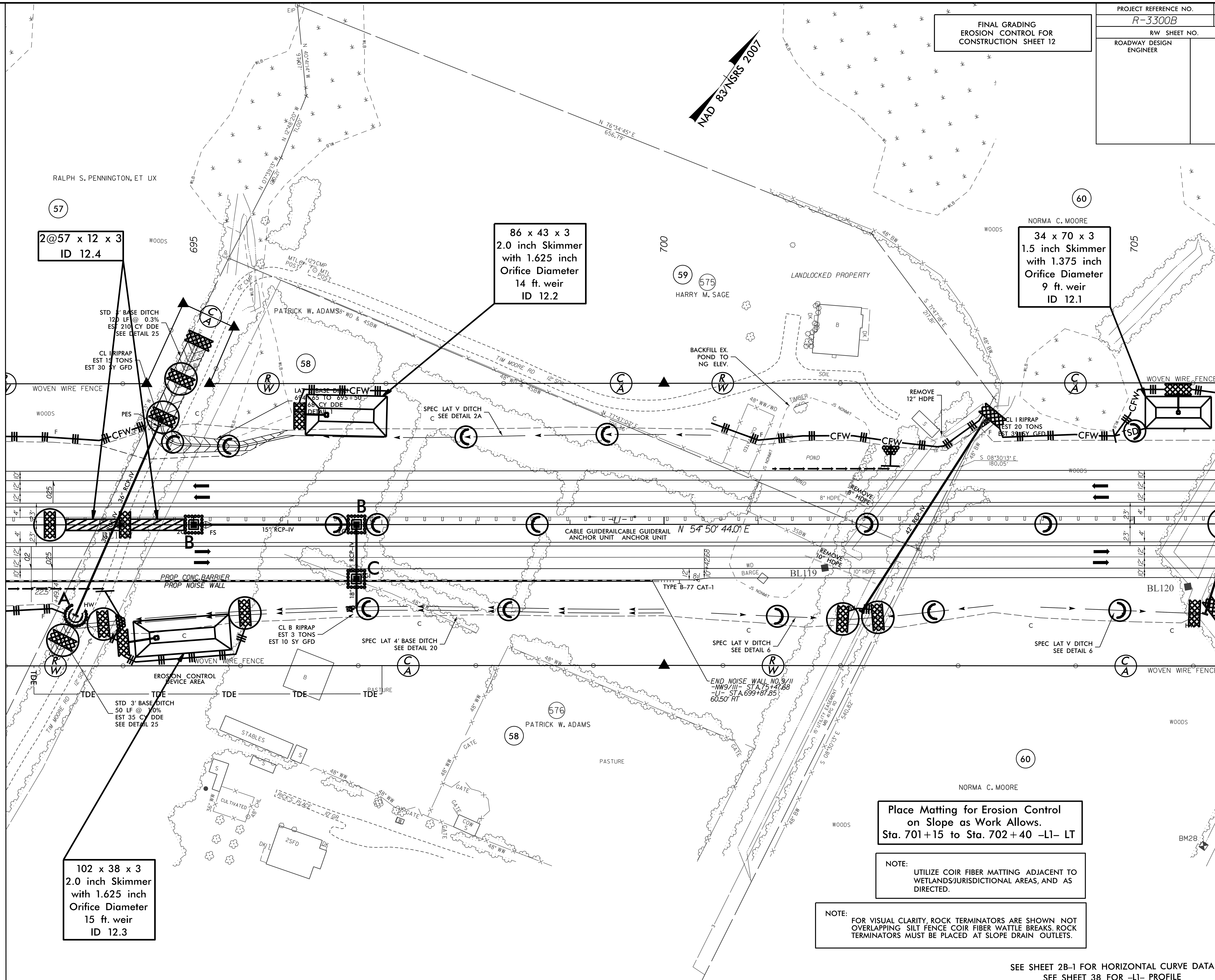
NOTE:
UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS/JURISDICTIONAL AREAS, AND AS DIRECTED.

NOTE:
FOR VISUAL CLARITY, ROCK TERMINATORS ARE SHOWN NOT OVERLAPPING SILT FENCE COIR FIBER WATTLE BREAKS. ROCK TERMINATORS MUST BE PLACED AT SLOPE DRAIN OUTLETS.

SEE SHEET 2B-1 FOR HORIZONTAL CURVE DATA
SEE SHEETS 37 & 38 FOR –L1– PROFILE

PROJECT REFERENCE NO.	SHEET NO.
R-3300B	EC-42/CONST12
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 12



NAD 83/NSRS 2007
RALPH S. PENNINGTON, ET UX
57
2@57 x 12 x 3
ID 12.4
WOODS
695
700
705
86 x 43 x 3
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
14 ft. weir
ID 12.2
59
575
HARRY M. SAGE
LANDLOCKED PROPERTY
60
NORMA C. MOORE
34 x 70 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
9 ft. weir
ID 12.1
PATRICK W. ADAMS
STD 3' BASE DITCH
120 LF @ 0.3%
EST 210 CY DDE
SEE DETAIL 25
CL I RIPRAP
EST 15 TONS
EST 30 SY GFD
58
TIM MOORE RD
BACKFILL EX. POND TO NG ELEV.
WOVEN WIRE FENCE
SPEC LAT V DITCH
SEE DETAIL 2A
REMOVE 12" HDPE
CL I RIPRAP
EST 20 TONS
POND
MATCHLINE -L1- STA 693+00.00 SEE SHEET 11
MATCHLINE -L1- STA 706+00.00 SEE SHEET 13
15" RCP-IV
CABLE GUIDERAIL ANCHOR UNIT
CABLE GUIDERAIL ANCHOR UNIT
N 54°50' 44.0" E
-L1-
PROP CONC.BARRIER
PROP NOISE WALL
TYPE B-77 CAT-1
BL119
BL120
CL B RIPRAP
EST 3 TONS
EST 10 SY GFD
SPEC LAT 4' BASE DITCH
SEE DETAIL 20
SPEC LAT V DITCH
SEE DETAIL 6
SPEC LAT V DITCH
SEE DETAIL 6
EROSION CONTROL DEVICE AREA
STD 3' BASE DITCH
50 LF @ 1.0%
EST 35 CY DDE
SEE DETAIL 25
END NOISE WALL NO.9/II
-NW9/III- STA.75+47.68
-L1- STA.699+87.85
60.50' RT
576
PATRICK W. ADAMS
58
PASTURE
STABLES
60
NORMA C. MOORE
WOODS
BM28
102 x 38 x 3
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
15 ft. weir
ID 12.3

Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 701+15 to Sta. 702+40 –L1– LT

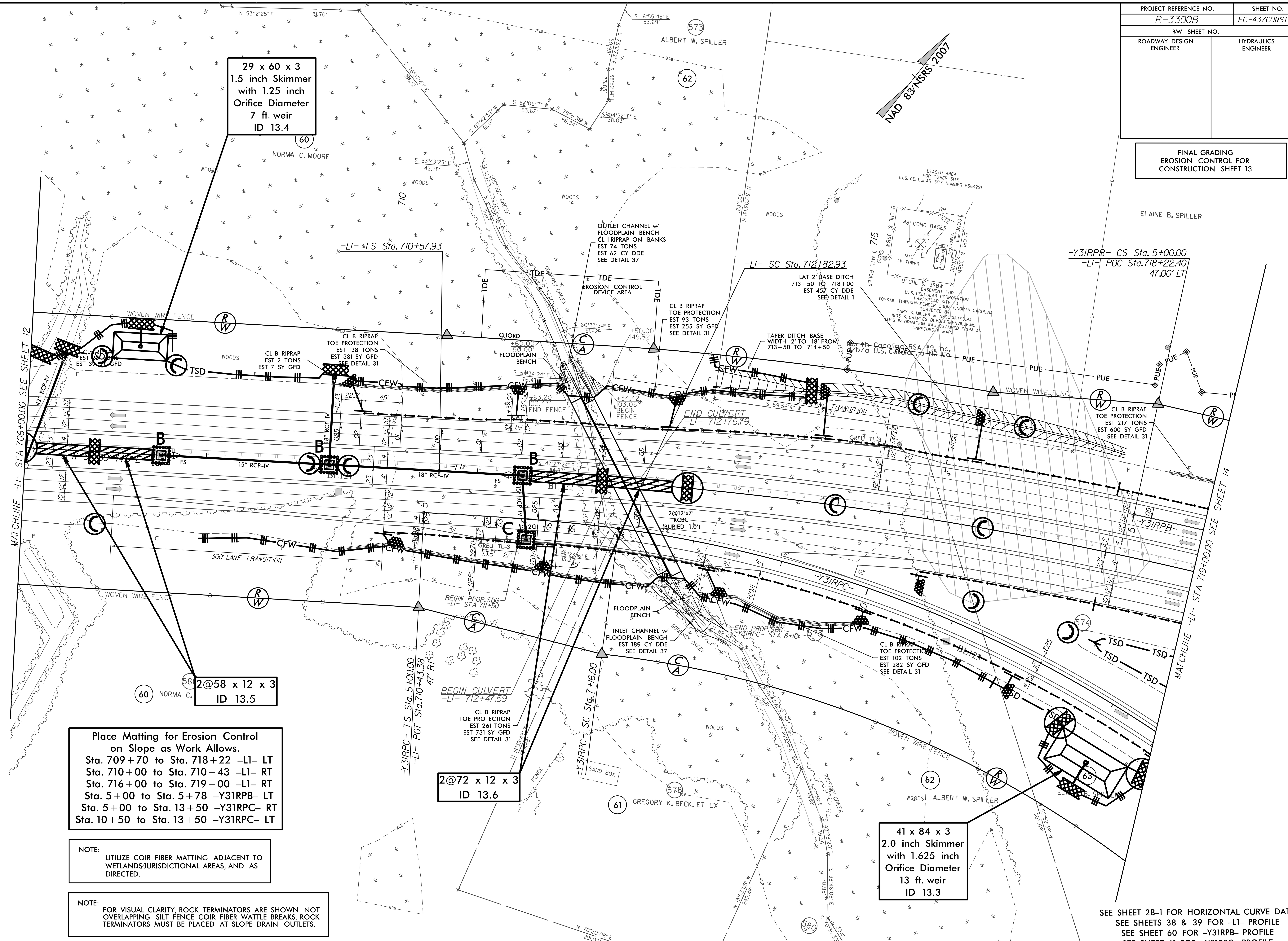
NOTE:
UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS/JURISDICTIONAL AREAS, AND AS DIRECTED.

NOTE:
FOR VISUAL CLARITY, ROCK TERMINATORS ARE SHOWN NOT OVERLAPPING SILT FENCE COIR FIBER WATTLE BREAKS. ROCK TERMINATORS MUST BE PLACED AT SLOPE DRAIN OUTLETS.

SEE SHEET 2B-1 FOR HORIZONTAL CURVE DATA
SEE SHEET 38 FOR -L1- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
R-3300B	EC-43/CONSTJ3
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 13



NAD 83/NSRS 2007
29 x 60 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
7 ft. weir
ID 13.4
NORMA C. MOORE
ALBERT W. SPILLER
ELAINE B. SPILLER
GREGORY K. BECK, ET UX
-L1- TS Sta. 710+57.93
-L1- SC Sta. 712+82.93
-Y31RPB- CS Sta. 5+00.00
-L1- POC Sta. 718+22.40
47.00' LT
OUTLET CHANNEL w/
FLOODPLAIN BENCH
CL I RIPRAP ON BANKS
EST 74 TONS
EST 62 CY DDE
SEE DETAIL 37
EROSION CONTROL
DEVICE AREA
CL B RIPRAP
TOE PROTECTION
EST 93 TONS
EST 255 SY GFD
SEE DETAIL 31
LAT 2' BASE DITCH
713+50 TO 718+00
EST 457 CY DDE
SEE DETAIL 1
TAPER DITCH BASE
WIDTH 2' TO 18' FROM
713+50 TO 714+50
CL B RIPRAP
TOE PROTECTION
EST 138 TONS
EST 381 SY GFD
SEE DETAIL 31
CL B RIPRAP
EST 2 TONS
EST 7 SY GFD
CL B RIPRAP
TOE PROTECTION
EST 217 TONS
EST 600 SY GFD
SEE DETAIL 31
END CULVERT
-L1- 712+76.79
2@12'x7'
RCBC
(BURIED 1.0')
300' LANE TRANSITION
BEGIN PROP. SBG
-L1- STA 711+50
FLOODPLAIN
BENCH
INLET CHANNEL w/
FLOODPLAIN BENCH
EST 185 CY DDE
SEE DETAIL 37
END PROP. SBG
-Y31RPC- STA 8+16
CL B RIPRAP
TOE PROTECTION
EST 102 TONS
EST 282 SY GFD
SEE DETAIL 31
MATCHLINE -L1- STA 706+00.00 SEE SHEET 12
MATCHLINE -L1- STA 719+00.00 SEE SHEET 14
2@58 x 12 x 3
ID 13.5
-Y31RPC- TS Sta. 5+00.00
-L1- POT Sta. 710+43.38
47' RT
BEGIN CULVERT
-L1- 712+47.59
CL B RIPRAP
TOE PROTECTION
EST 261 TONS
EST 731 SY GFD
SEE DETAIL 31
-Y31RPC- SC Sta. 7+16.00
2@72 x 12 x 3
ID 13.6
41 x 84 x 3
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
13 ft. weir
ID 13.3

Place Matting for Erosion Control on Slope as Work Allows.

Sta. 709+70 to Sta. 718+22 -L1- LT
Sta. 710+00 to Sta. 710+43 -L1- RT
Sta. 716+00 to Sta. 719+00 -L1- RT
Sta. 5+00 to Sta. 5+78 -Y31RPB- LT
Sta. 5+00 to Sta. 13+50 -Y31RPC- RT
Sta. 10+50 to Sta. 13+50 -Y31RPC- LT

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

NOTE: FOR VISUAL CLARITY, ROCK TERMINATORS ARE SHOWN NOT OVERLAPPING SILT FENCE COIR FIBER WATTLE BREAKS. ROCK TERMINATORS MUST BE PLACED AT SLOPE DRAIN OUTLETS.

SEE SHEET 2B-1 FOR HORIZONTAL CURVE DATA
SEE SHEETS 38 & 39 FOR -L1- PROFILE
SEE SHEET 60 FOR -Y31RPB- PROFILE
SEE SHEET 61 FOR -Y31RPC- PROFILE

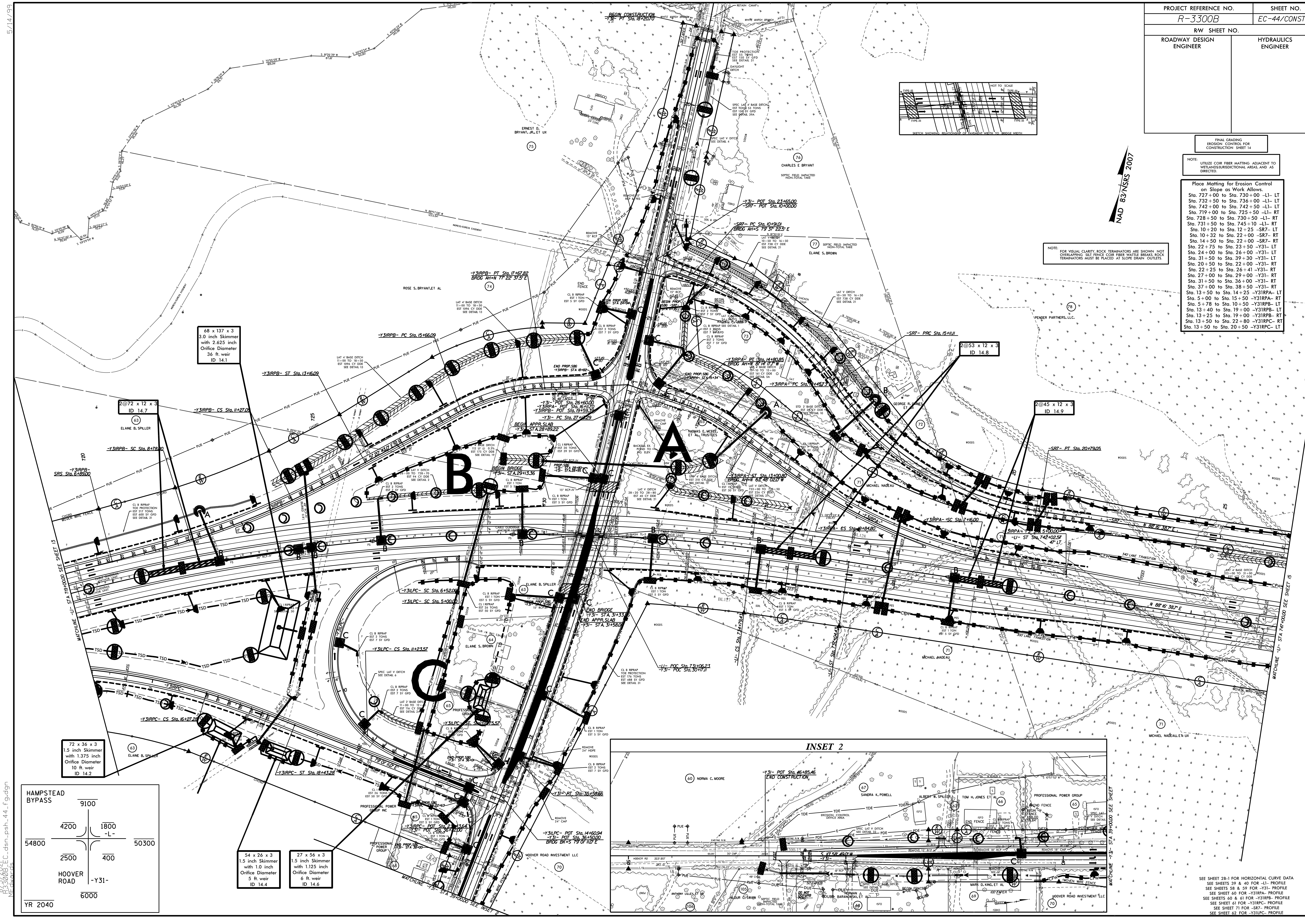
PROJECT REFERENCE NO.	SHEET NO.
R-3300B	EC-44/CONST.14
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 14

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

Place Matting for Erosion Control on Slope as Work Allows.
Sta. 727+00 to Sta. 730+00 –L1– LT
Sta. 732+50 to Sta. 736+00 –L1– LT
Sta. 742+00 to Sta. 742+50 –L1– LT
Sta. 719+00 to Sta. 725+50 –L1– RT
Sta. 728+50 to Sta. 730+50 –L1– RT
Sta. 731+50 to Sta. 745+10 –L1– RT
Sta. 10+20 to Sta. 12+25 –SR7– LT
Sta. 10+32 to Sta. 22+00 –SR7– RT
Sta. 14+50 to Sta. 22+00 –SR7– RT
Sta. 22+75 to Sta. 23+50 –Y31– LT
Sta. 24+00 to Sta. 26+00 –Y31– LT
Sta. 31+50 to Sta. 39+30 –Y31– LT
Sta. 20+50 to Sta. 22+00 –Y31– RT
Sta. 22+25 to Sta. 26+41 –Y31– RT
Sta. 27+00 to Sta. 29+00 –Y31– RT
Sta. 31+50 to Sta. 36+00 –Y31– RT
Sta. 37+00 to Sta. 38+50 –Y31– RT
Sta. 13+50 to Sta. 14+25 –Y31RPA– LT
Sta. 5+00 to Sta. 15+50 –Y31RPA– RT
Sta. 5+78 to Sta. 10+50 –Y31RPB– LT
Sta. 13+40 to Sta. 19+00 –Y31RPB– LT
Sta. 13+25 to Sta. 19+00 –Y31RPB– RT
Sta. 13+50 to Sta. 22+80 –Y31RPC– RT
Sta. 13+50 to Sta. 20+50 –Y31RPC– LT

NOTE:
FOR VISUAL CLARITY, ROCK TERMINATORS ARE SHOWN NOT OVERLAPPING SILT FENCE COIR FIBER WATTLE BREAKS. ROCK TERMINATORS MUST BE PLACED AT SLOPE DRAIN OUTLETS.



SEE SHEET 2B-1 FOR HORIZONTAL CURVE DATA
SEE SHEETS 39 & 40 FOR -L1- PROFILE
SEE SHEETS 58 & 59 FOR -Y31- PROFILE
SEE SHEET 60 FOR -Y31RPA- PROFILE
SEE SHEETS 60 & 61 FOR -Y31RPB- PROFILE
SEE SHEET 61 FOR -Y31RPC- PROFILE
SEE SHEET 71 FOR -SR7- PROFILE
SEE SHEET 62 FOR -Y31LPC- PROFILE

5/14/99

8/5/2021
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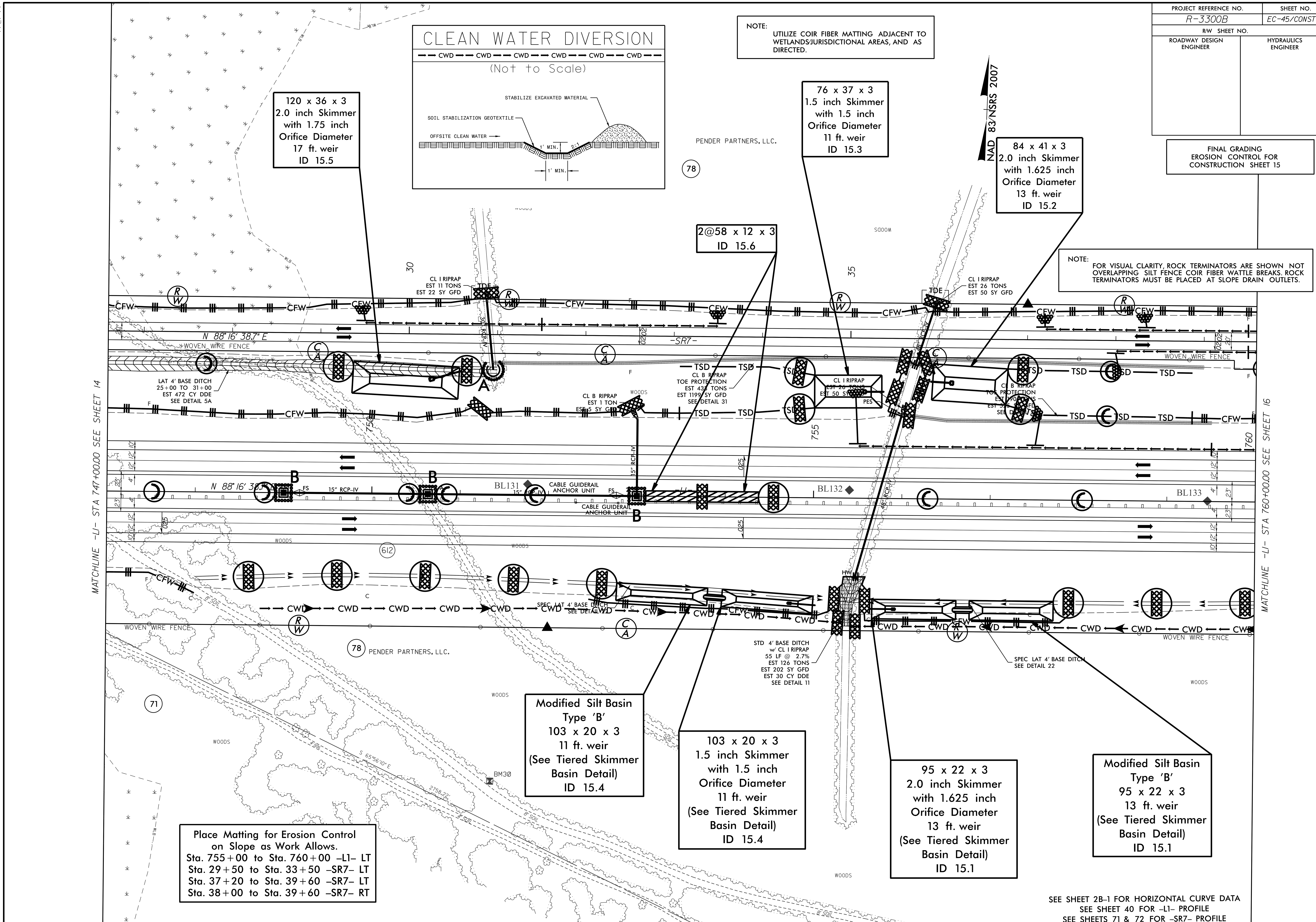


7/2/99
PROJECT REFERENCE NO.
R-3300B
SHEET NO.
EC-45/CONSTJ5
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
FINAL GRADING EROSION CONTROL FOR CONSTRUCTION SHEET 15
CLEAN WATER DIVERSION
(Not to Scale)
STABILIZE EXCAVATED MATERIAL
SOIL STABILIZATION GEOTEXTILE
OFFSITE CLEAN WATER
1' MIN.
NOTE: UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS/JURISDICTIONAL AREAS, AND AS DIRECTED.
NOTE: FOR VISUAL CLARITY, ROCK TERMINATORS ARE SHOWN NOT OVERLAPPING SILT FENCE COIR FIBER WATTLE BREAKS. ROCK TERMINATORS MUST BE PLACED AT SLOPE DRAIN OUTLETS.
NAD 83/NSRS 2007
120 x 36 x 3
2.0 inch Skimmer
with 1.75 inch
Orifice Diameter
17 ft. weir
ID 15.5
76 x 37 x 3
1.5 inch Skimmer
with 1.5 inch
Orifice Diameter
11 ft. weir
ID 15.3
84 x 41 x 3
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
13 ft. weir
ID 15.2
2@58 x 12 x 3
ID 15.6
PENDER PARTNERS, LLC.
CL I RIPRAP EST 11 TONS EST 22 SY GFD
CL I RIPRAP EST 26 TONS EST 50 SY GFD
LAT 4' BASE DITCH 25+00 TO 31+00 EST 472 CY DDE SEE DETAIL 5A
CL B RIPRAP TOE PROTECTION EST 432 TONS EST 1199 SY GFD SEE DETAIL 31
CL B RIPRAP EST 1 TON EST 5 SY GFD
N 88° 16' 38.7" E
WOVEN WIRE FENCE
-SR7-
CABLE GUIDERAIL ANCHOR UNIT
BL131
BL132
BL133
MATCHLINE -L1- STA 747+00.00 SEE SHEET 14
MATCHLINE -L1- STA 760+00.00 SEE SHEET 16
SPEC LAT 4' BASE DITCH SEE DETAIL 22
STD 4' BASE DITCH w/ CL I RIPRAP 55 LF @ 2.7% EST 126 TONS EST 202 SY GFD EST 30 CY DDE SEE DETAIL 11
WOODS
BM30
Modified Silt Basin
Type 'B'
103 x 20 x 3
11 ft. weir
(See Tiered Skimmer Basin Detail)
ID 15.4
103 x 20 x 3
1.5 inch Skimmer
with 1.5 inch
Orifice Diameter
11 ft. weir
(See Tiered Skimmer Basin Detail)
ID 15.4
95 x 22 x 3
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
13 ft. weir
(See Tiered Skimmer Basin Detail)
ID 15.1
Modified Silt Basin
Type 'B'
95 x 22 x 3
13 ft. weir
(See Tiered Skimmer Basin Detail)
ID 15.1
Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 755+00 to Sta. 760+00 -L1- LT
Sta. 29+50 to Sta. 33+50 -SR7- LT
Sta. 37+20 to Sta. 39+60 -SR7- LT
Sta. 38+00 to Sta. 39+60 -SR7- RT
SEE SHEET 2B-1 FOR HORIZONTAL CURVE DATA
SEE SHEET 40 FOR -L1- PROFILE
SEE SHEETS 71 & 72 FOR -SR7- PROFILE

7/2/99

PROJECT REFERENCE NO.	SHEET NO.
R-3300B	EC-46/CONSTJ6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING EROSION CONTROL FOR CONSTRUCTION SHEET 16

Place Matting for Erosion Control on Slope as Work Allows.

Sta. 760+00 to Sta. 764+50 –L1– LT
Sta. 766+70 to Sta. 768+70 –L1– LT
Sta. 769+55 to Sta. 773+00 –L1– LT
Sta. 760+00 to Sta. 773+00 –L1– RT
Sta. 39+60 to Sta. 47+00 –SR7– LT
Sta. 39+60 to Sta. 52+30 –SR7– RT

NOTE: FOR VISUAL CLARITY, ROCK TERMINATORS ARE SHOWN NOT OVERLAPPING SILT FENCE COIR FIBER WATTLE BREAKS. ROCK TERMINATORS MUST BE PLACED AT SLOPE DRAIN OUTLETS.

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

PENDER PARTNERS, LLC.

NAD 83/NSRS 2007

PRD PROPERTIES, LLC.

MATCHLINE –L1– STA 760+00.00 SEE SHEET 15

MATCHLINE –L1– STA 773+00.00 SEE SHEET 17

–SR7– PC Sta. 45+90.58

–L1– TS Sta. 763+07.12

–L1– SC Sta. 764+87.12

CL B RIP RAP EST 2 TONS EST 7 SY GFD

CL I RIPRAP EST 20 TONS EST 39 SY GFD

CL I RIPRAP EST 20 TONS EST 39 SY GFD

BACKFILL DITCH TO NG ELEVATION

SPEC LAT 4' BASE DITCH SEE DETAIL 22

2@52 x 12 x 3 ID 16.2

2@72 x 12 x 3 ID 16.3

80 x 40 x 3 2.0 inch Skimmer with 1.625 inch Orifice Diameter 12 ft. weir ID 16.1

AMERICAN TOWER ASSET SUB

CABLE GUIDERAIL ANCHOR UNIT

WOVEN WIRE FENCE

PENDER PARTNERS, LLC.

PRD PROPERTIES, LLC.

BM31

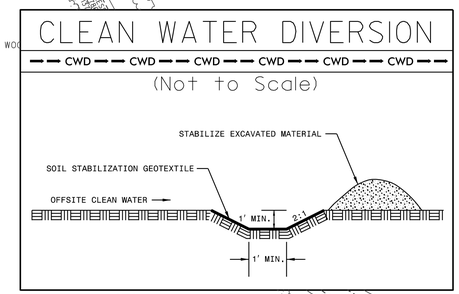
BLR2

WOODS

CLEAN WATER DIVERSION

CWD — CWD — CWD — CWD — CWD — CWD

(Not to Scale)



SEE SHEET 2B-1 FOR HORIZONTAL CURVE DATA
SEE SHEET 41 FOR –L1– PROFILE
SEE SHEET 72 FOR –SR7– PROFILE

7/2/99

PROJECT REFERENCE NO.	SHEET NO.
R-3300B	EC-47/CONST.17
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 17

NAD 83/NSRS 2007

PRD PROPERTIES, LLC.

BACKFILL END OF CHANNEL TO NG ELEVATION

-SR7- POT Sta. 57+68.41
BRDG BK=N 49° 43' 19.9" E

END CONSTRUCTION
-SR7- POT Sta. 57+20.00

-SR7- PT Sta. 55+99.95

BRYCE MORRISON

DUKE PROGRESS ENERGY
ME 32 PG 44

DUKE PROGRESS ENERGY
ME 38 PG 144

WOVEN WIRE FENCE

END FENCE
76.00
150.00'

BEGIN FENCE
+95.00
150.00'

GATE

MATCHLINE -L1- STA 773+00.00 SEE SHEET 16

MATCHLINE -L1- STA 786+00.00 SEE SHEET 18

CFW

PES

30" RCP-IV

36" RCP-IV

15" RCP-IV

CL I RIPRAP
EST 11 TONS
EST 22 SY GFD

2@72 x 12 x 3
ID 16.3

PRD PROPERTIES, LLC.

BRYCE MORRISON

DUKE ENERGY PROGRESS, INC.

WOODS

Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 773+00 to Sta. 786+00 –L1– LT
Sta. 773+00 to Sta. 786+00 –L1– RT
Sta. 52+30 to Sta. 54+50 –SR7– RT

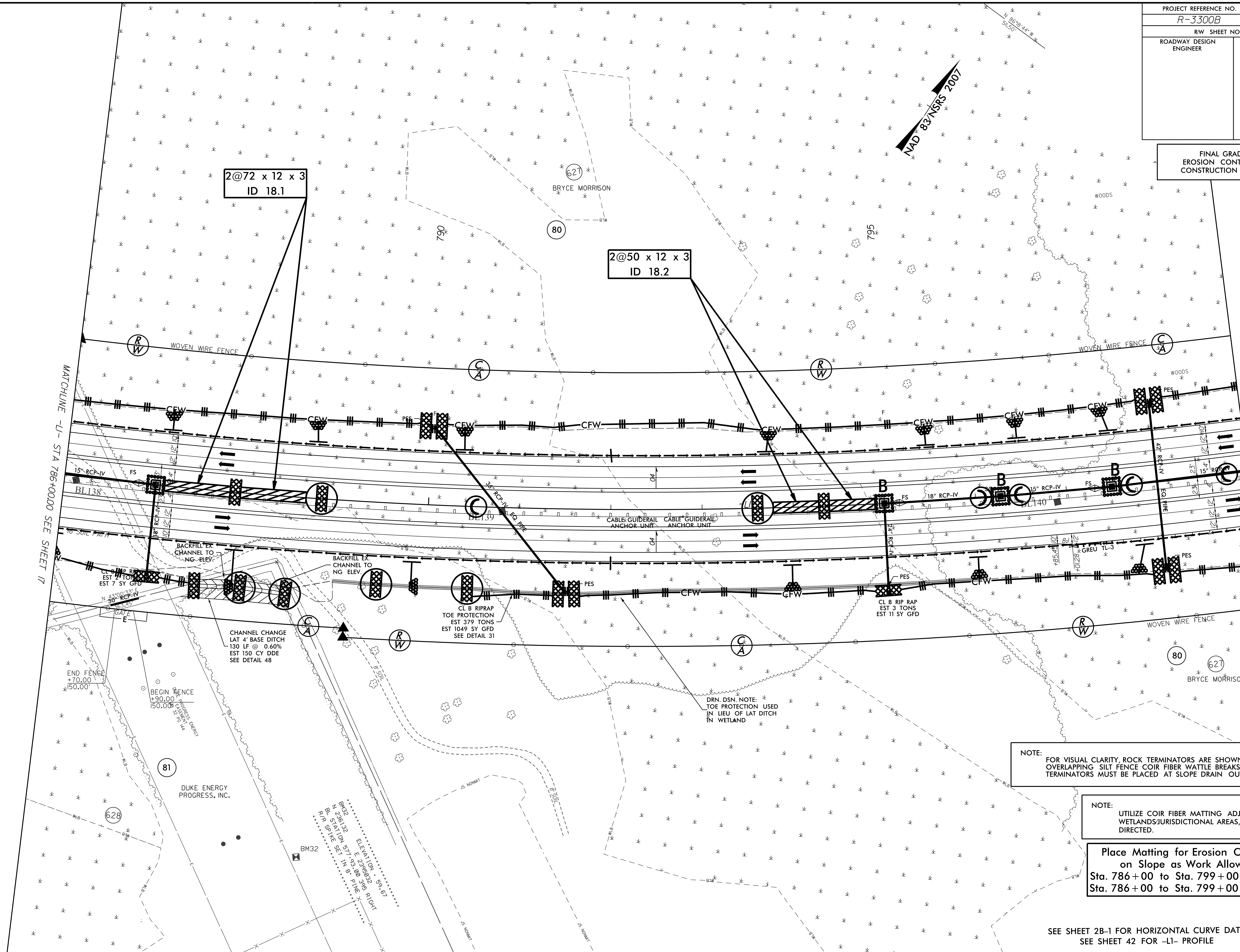
NOTE:
UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS/JURISDICTIONAL AREAS, AND AS DIRECTED.

NOTE:
FOR VISUAL CLARITY, ROCK TERMINATORS ARE SHOWN NOT OVERLAPPING SILT FENCE COIR FIBER WATTLE BREAKS. ROCK TERMINATORS MUST BE PLACED AT SLOPE DRAIN OUTLETS.

SEE SHEET 2B-1 FOR HORIZONTAL CURVE DATA
SEE SHEET 41 FOR –L1– PROFILE
SEE SHEET 72 FOR –SR7– PROFILE

PROJECT REFERENCE NO.	SHEET NO.
R-3300B	EC-48/CONSTJ8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 18



NAD 83/NSRS 2007
2@72 x 12 x 3
ID 18.1
2@50 x 12 x 3
ID 18.2
BRYCE MORRISON
WOODS
WOVEN WIRE FENCE
CFW
PES
FS
15" RCP-IV
18" RCP-IV
24" RCP-IV
30" RCP-IV
36" RCP-IV EQ. PIPE
42" RCP-IV EQ. PIPE
BL138
BL139
BL140
CABLE GUIDERAIL ANCHOR UNIT
GREU TL-3
MATCHLINE -L1- STA 786+00.00 SEE SHEET 17
MATCHLINE -L1- STA 799+00.00 SEE SHEET 19
BACKFILL EX. CHANNEL TO NG. ELEV.
CL B RIPRAP TOE PROTECTION
EST 379 TONS
EST 1049 SY GFD
SEE DETAIL 31
CL B RIP RAP
EST 3 TONS
EST 11 SY GFD
CL B RIP RAP
EST 7 SY GFD
CHANNEL CHANGE
LAT 4' BASE DITCH
130 LF @ 0.60%
EST 150 CY DDE
SEE DETAIL 48
DRN. DSN. NOTE:
TOE PROTECTION USED
IN LIEU OF LAT DITCH
IN WETLAND
END FENCE
+70.00
150.00'
BEGIN FENCE
+90.00
150.00'
GATE
DUKE ENERGY PROGRESS, INC.
BM32
ELEVATION = 591.67
BL STATION 577+93.00 395 RIGHT
R/R SPIKE SET IN 8" PINE

NOTE:
FOR VISUAL CLARITY, ROCK TERMINATORS ARE SHOWN NOT OVERLAPPING SILT FENCE COIR FIBER WATTLE BREAKS. ROCK TERMINATORS MUST BE PLACED AT SLOPE DRAIN OUTLETS.

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

Place Matting for Erosion Control on Slope as Work Allows.
Sta. 786+00 to Sta. 799+00 -L1- LT
Sta. 786+00 to Sta. 799+00 -L1- RT

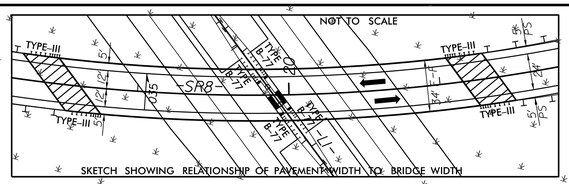
SEE SHEET 2B-1 FOR HORIZONTAL CURVE DATA
SEE SHEET 42 FOR -L1- PROFILE

7/2/99

PROJECT REFERENCE NO.	SHEET NO.
R-3300B	EC-49/CONST J9
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 19

NOT TO SCALE



SKETCH SHOWING RELATIONSHIP OF PAVEMENT WIDTH TO BRIDGE WIDTH

Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 799+00 to Sta. 812+00 –L1– LT
Sta. 799+00 to Sta. 812+00 –L1– RT

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

NOTE:
FOR VISUAL CLARITY, ROCK TERMINATORS ARE SHOWN NOT OVERLAPPING SILT FENCE COIR FIBER WATTLE BREAKS. ROCK TERMINATORS MUST BE PLACED AT SLOPE DRAIN OUTLETS.

NAD 83/NSRS 2007

JAMES GLENN CAPPS
NO CLAIM

S 32°14'16" W
685.50'

-L1- CS Sta. 799+93.46

-L1- ST Sta. 801+73.46

BRYCE MORRISON

WOODS

DRN. DSN. NOTE:
TOE PROTECTION
USED IN LIEU OF LAT
DITCH IN WETLAND

-L1- POT Sta. 808+59.78
-SR8- POC Sta. 19+89.90

JAMESTOWN PENDER, LP

END PROP SBG
-L1_NORTH- STA 807+00

CL B RIPRAP
TOE PROTECTION
EST 201 TONS
EST 482 SY GFD
SEE DETAIL 31

BEGIN PROP SBG
-L1- STA 799+93

WOVEN WIRE FENCE
CHORD

N 48° 11' 57.4" E

BL141

-L1-

BL142

BEGIN PROP SBG
-L1_NORTH- STA 802+50

CL B RIPRAP
TOE PROTECTION
EST 271 TONS
EST 651 SY GFD
SEE DETAIL 31

END PROP SBG
-L1_NORTH- STA 805+00

CL B RIP RAP
EST 2 TON
EST 7 SY GFD

CL B RIP RAP
EST 1 TON
EST 5 SY GFD

CL B RIPRAP
TOE PROTECTION
EST 244 TONS
EST 586 SY GFD
SEE DETAIL 31

72 x 12 x 3
ID 19.1

PENDER COUNTY

-SR8- PT Sta. 23+45.49

S 24° 40' 58.8" E

MATCHLINE -SR8- STA 24+00.00
SEE SHEET 32

MATCHLINE -L1- STA 799+00.00 SEE SHEET 18

MATCHLINE -L1- STA 812+00.00 SEE SHEET 20

MATCHLINE -SR8- STA 15+26.55 SEE SHEET 20

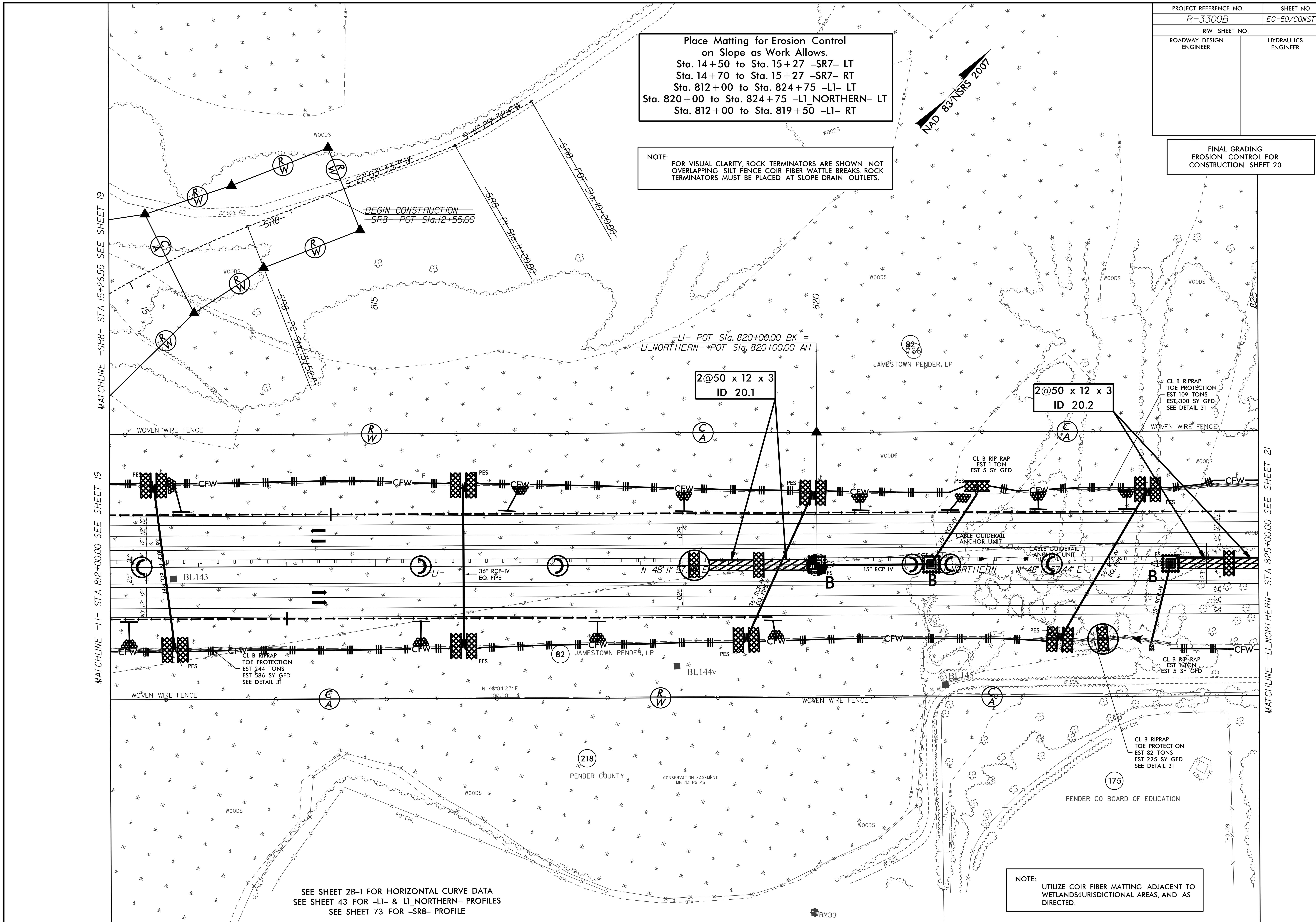
SEE SHEET 2B-1 FOR HORIZONTAL CURVE DATA
SEE SHEET 42 FOR –L1– PROFILE
SEE SHEET 73 FOR –SR8– PROFILE

PROJECT REFERENCE NO.	SHEET NO.
R-3300B	EC-50/CONST.20
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 20

Place Matting for Erosion Control on Slope as Work Allows.
Sta. 14+50 to Sta. 15+27 -SR7- LT
Sta. 14+70 to Sta. 15+27 -SR7- RT
Sta. 812+00 to Sta. 824+75 -L1- LT
Sta. 820+00 to Sta. 824+75 -L1_NORTHERN- LT
Sta. 812+00 to Sta. 819+50 -L1- RT

NOTE: FOR VISUAL CLARITY, ROCK TERMINATORS ARE SHOWN NOT OVERLAPPING SILT FENCE COIR FIBER WATTLE BREAKS. ROCK TERMINATORS MUST BE PLACED AT SLOPE DRAIN OUTLETS.



NAD 83/NSRS 2007
MATCHLINE -SR8- STA 15+26.55 SEE SHEET 19
MATCHLINE -L1- STA 812+00.00 SEE SHEET 19
MATCHLINE -L1_NORTHERN- STA 825+00.00 SEE SHEET 21
BEGIN CONSTRUCTION
-SR8- POT Sta.12+55.00
-SR8- PI Sta.11+08.88
-SR8- POT Sta.10+00.00
-SR8- PC Sta.13+52.11
-L1- POT Sta. 820+00.00 BK =
-L1_NORTHERN- POT Sta. 820+00.00 AH
2@50 x 12 x 3
ID 20.1
2@50 x 12 x 3
ID 20.2
CL B RIPRAP
TOE PROTECTION
EST 109 TONS
EST 300 SY GFD
SEE DETAIL 31
CL B RIP RAP
EST 1 TON
EST 5 SY GFD
CABLE GUIDERAIL
ANCHOR UNIT
36" RCP-IV
EQ. PIPE
15" RCP-IV
N 48° 11' 57.44" E
-L1-
-NORTHERN-
WOVEN WIRE FENCE
JAMESTOWN PENDER, LP
CL B RIPRAP
TOE PROTECTION
EST 244 TONS
EST 586 SY GFD
SEE DETAIL 31
CL B RIP RAP
EST 1 TON
EST 5 SY GFD
BL143
BL144
BL145
PENDER COUNTY
CONSERVATION EASEMENT
CL B RIPRAP
TOE PROTECTION
EST 82 TONS
EST 225 SY GFD
SEE DETAIL 31
PENDER CO BOARD OF EDUCATION
WOODS
CFW
PES
BM33

SEE SHEET 2B-1 FOR HORIZONTAL CURVE DATA
SEE SHEET 43 FOR -L1- & L1_NORTHERN- PROFILES
SEE SHEET 73 FOR -SR8- PROFILE

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