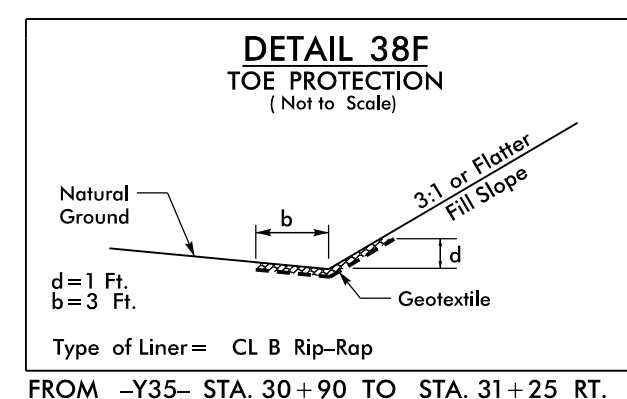
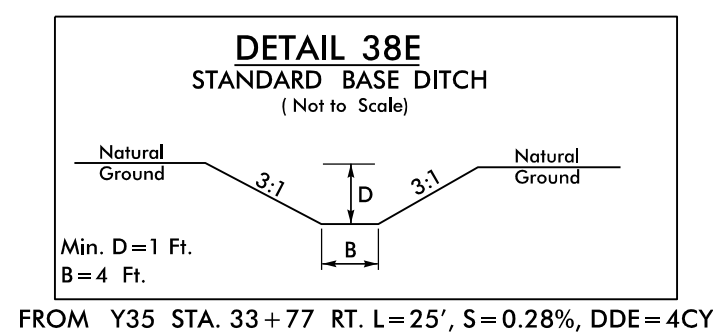
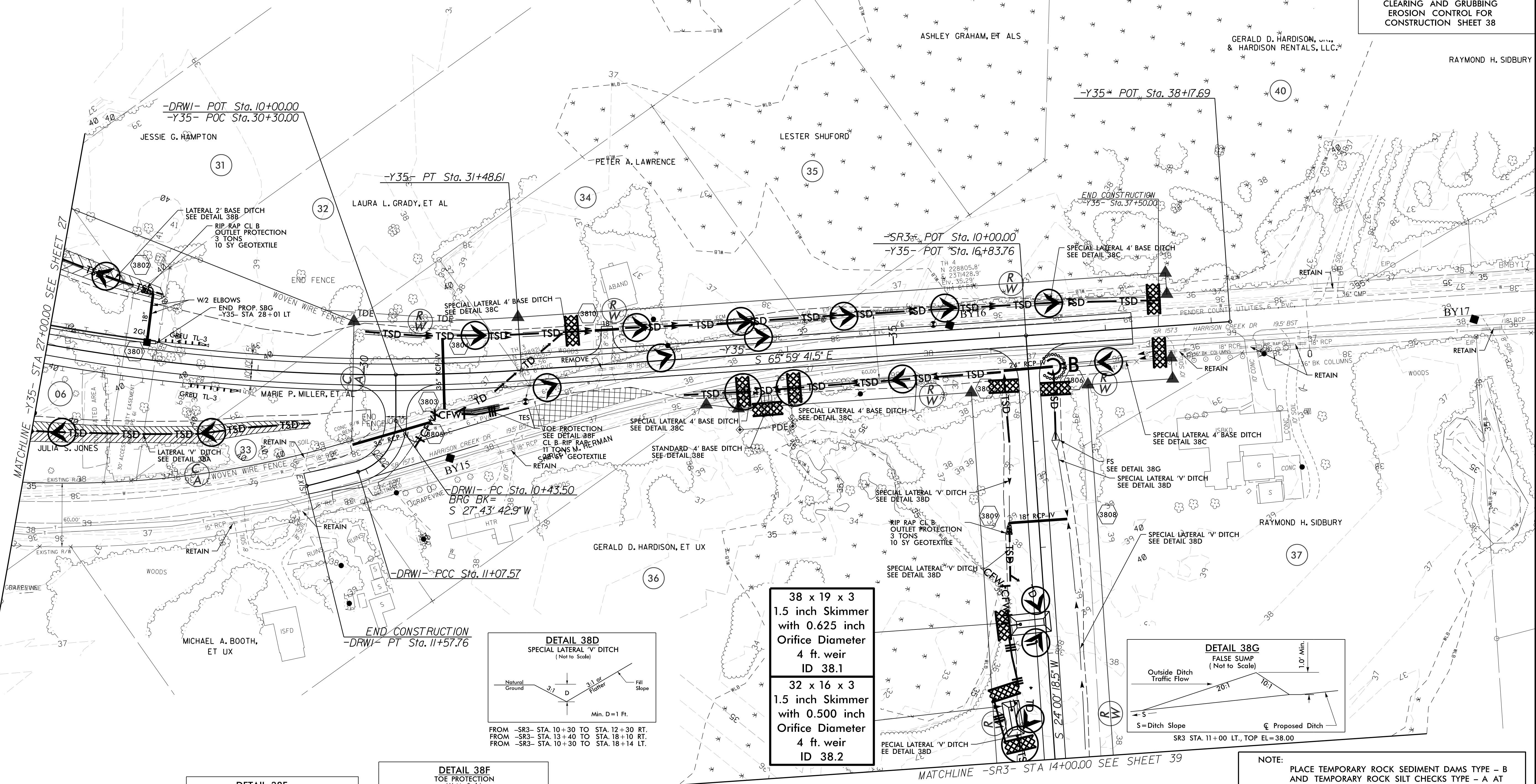
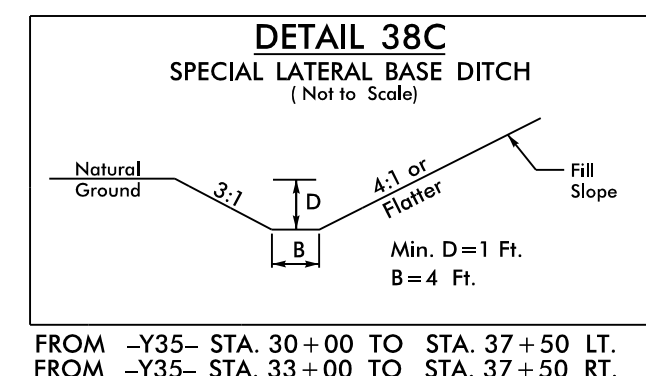
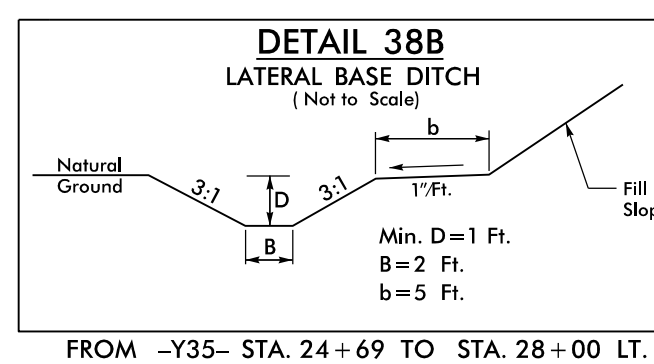
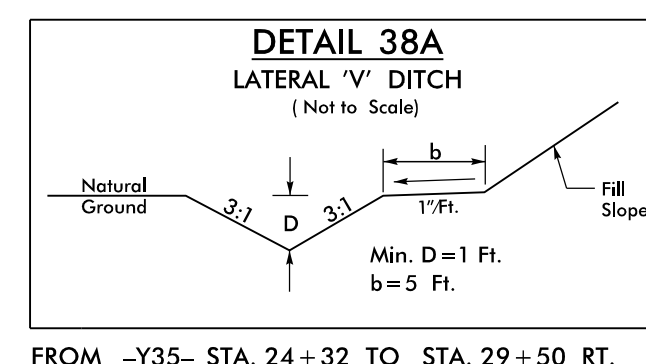




NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

SEE SHEET 64 FOR -Y35- PROFILE
SEE SHEET 66 FOR -SR3- & -DR1- PROFILES



2010 WYCLIFF ROAD
SUITE 410
RALEIGH, NC 27607
PHONE: 919.881.9939
NC CDA No. F-0929



Stantec Consulting Services Inc.
801 Jones Franklin Road
Suite 300
Raleigh, NC 27606
Tel. (919) 851-6886
Fax. (919) 851-7024
www.stantec.com
License No. F-0672

PROJECT REFERENCE NO.

R-3300A

SHEET NO.

EC-39/CONST.39

R/W SHEET NO.

ROADSIDE ENVIRONMENTAL PROJECT ENGINEER

LEVEL III CERTIFIED BY:
KAREN HEFNER, PE
CERTIFICATION NUMBER: 3824
ISSUED: MARCH 6, 2025

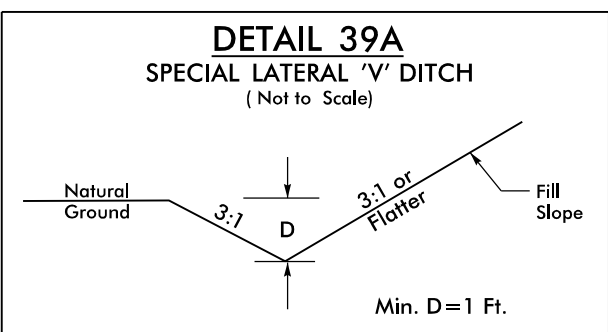
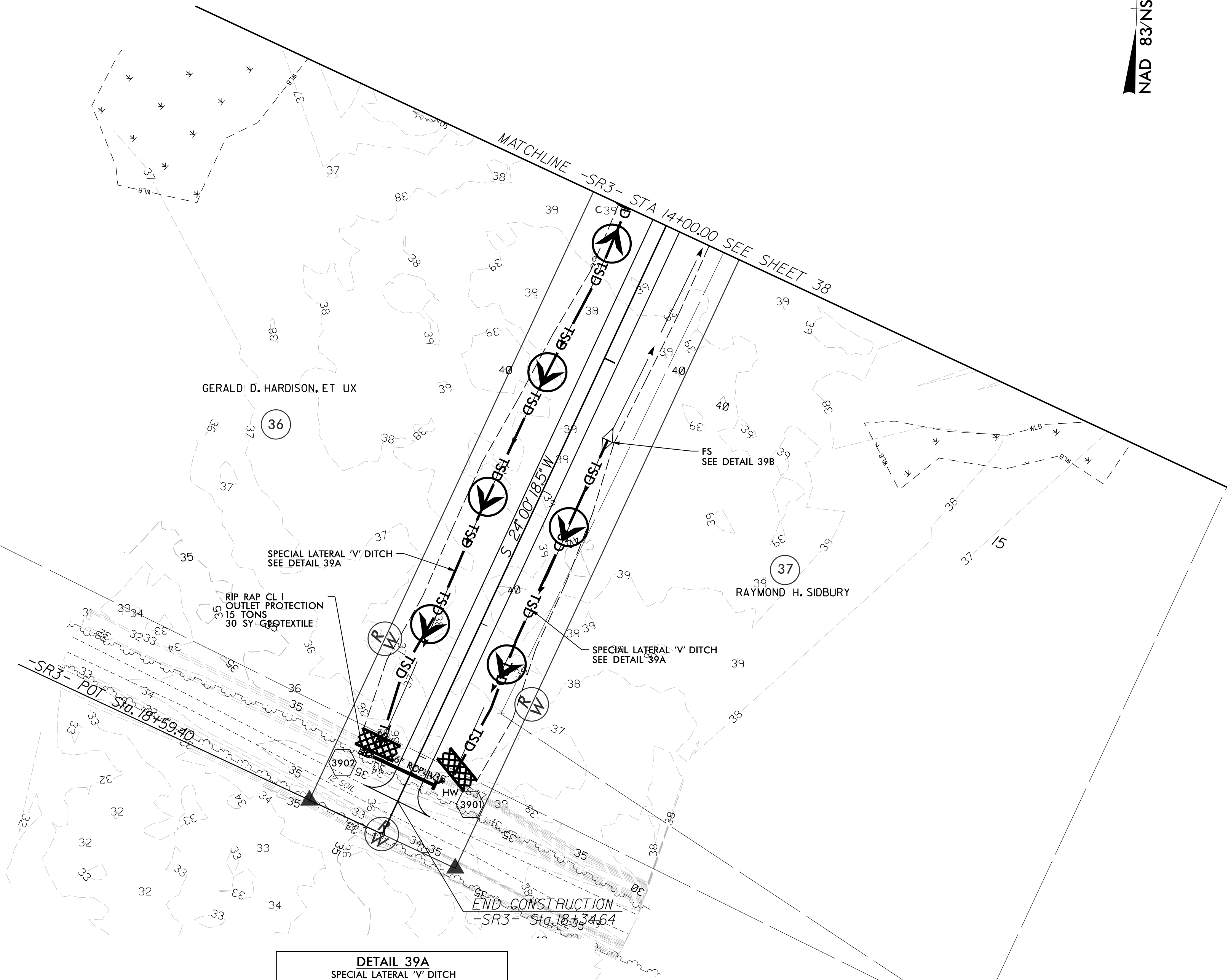


MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6606
FIRM PE NUMBER : P-0671

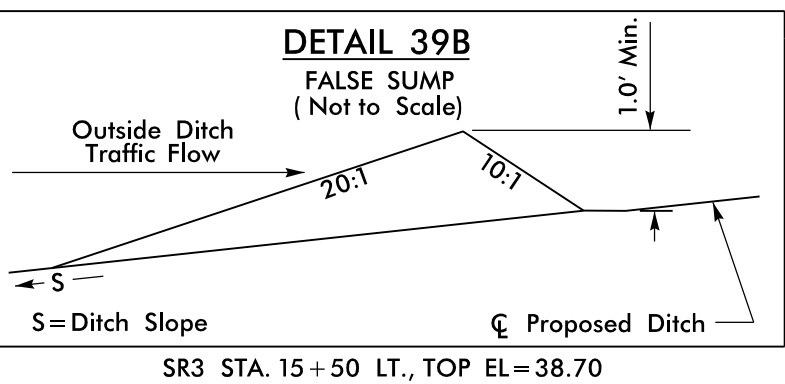
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 39

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

NAD 83/NSRS 2007



FROM -SR3- STA. 13 + 40 TO STA. 18 + 14 RT.
FROM -SR3- STA. 10 + 30 TO STA. 18 + 14 LT.



SR3 STA. 15 + 50 LT., TOP EL=38.70

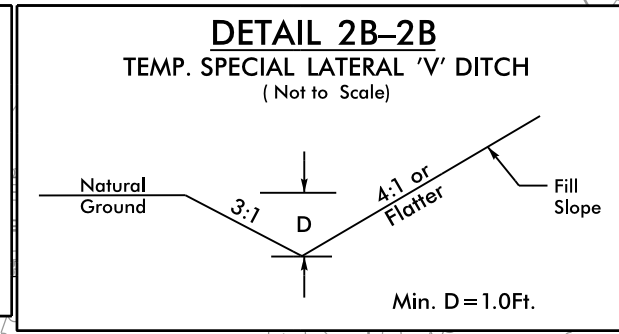
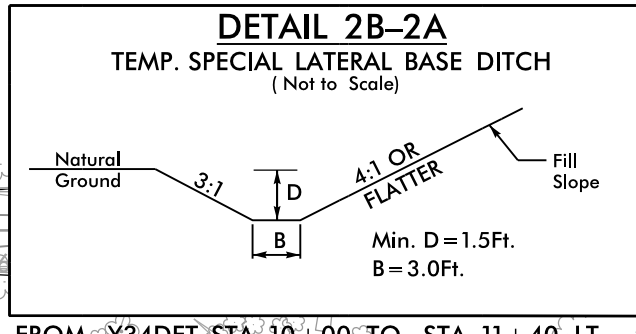
3/6/2025
RAY HEFNER
MI ENGINEERING, RALEIGH, NC

SEE SHEET 66 FOR -SR3- PROFILE

8/17/99

REVISIONS

R:\5 2025\Hydraulics\Erosion Control\Plans\R3300A.ec.psh.40.dgn



-Y34DET-

Dewberry

3620 WYCLIFF ROAD
SUITE 400
RALEIGH, NC 27607
PHONE: 919.881.9939
NC CDR No. F-0829

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.

R-3300A

SHEET NO.

EC-40/CONST.2B-2

RW SHEET NO.

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 2-B2

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

BEGIN CONSTRUCTION
-Y34DET- PC Sta. 10+00.00
-Y34- POT Sta. 10+00.00

-Y34DET- PRC Sta. 13+85.63

LAT 2' BASE DITCH
SEE DETAIL 35E
21 CY DDE
-Y34DET- PT Sta. 17+71.26

NOTE: -Y34DET- INCLUDES
PORTIONS OF -SR1- & -SR9-

DRIVEWAY RADII ARE 15' UNLESS NOTED OTHERWISE
FOR -Y34DET- PROFILE SEE SHEETS 2B-3

ROADSIDE ENVIRONMENTAL PROJECT ENGINEER

LEVEL III CERTIFIED BY:
ALLISON THOMPSON, PE
CERTIFICATION NUMBER: 4282
ISSUED: MARCH 6, 2025

END CONSTRUCTION
-Y34DET- PT Sta. 37+54.51
-Y34- POT Sta. 37+00.00

MATCHLINE -Y34DET- STA 24+50.00

NO CLAIM

NO CLAIM

MATCHLINE -Y34DET- STA 24+50.00

5/14/99

3/5/2025
Hydraulics\EROSION Control\Plans\R3300A.ec.psh_42.dgn

Dewberry



MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6606
FIRM PE NUMBER: P-0671

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801 Jones Franklin Road
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Fax. (919) 851-7024
www.stantec.com
License No. F-0672

PROJECT REFERENCE NO.		SHEET NO.
R-3300A		EC-42/CONST.4
RW SHEET NO.		HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER		

NAD 83/NSRS 2007

DENNIS R. SMITH
DB 1370 PG 672
MB 8 PG 98

MARGARET M. LANGLEY, HEIRS
EB 9912 PG 1889
DB 1019 PG 332
MB 8 PG 98

CHARLES M. MAINLAND
DB 1060 PG 526
MB 8 PG 98

BEGIN PROJECT R-3300A
-LI- STA 205+85.00

GREGORY S. SHORTELL
DB 2032 PG 664
MB 8 PG 98

DONE BY OTHERS

CABLE GUIDERAIL
ANCHOR UNIT

CABLE GUIDERAIL
ANCHOR UNIT

B

B

MATCHLINE -LI- STA 215+00.00 SEE SHEET 5

-Y8RPDB-
N 13° 07' 10.0" W

-Y8RPDB- TS Sta. 12+54.39

-Y8RPDB- SC Sta. 14+94.39

-LI- TS Sta. 207+55.32

-LI- SC Sta. 210+55.32

-Y8RPDB-
S 25° 15' 40.5" E
ST Sta. 22+58.23

EDWARD C. DRAPALA
DB 1411 PG 330
DB 1561 PG 1087
MB 8 PG 97

EDWARD C. DRAPALA
DB 1411 PG 330
DB 1561 PG 1087
MB 8 PG 97

OUT ISLAND, LLC
DB 4549 PG 716
MB 8 PG 97

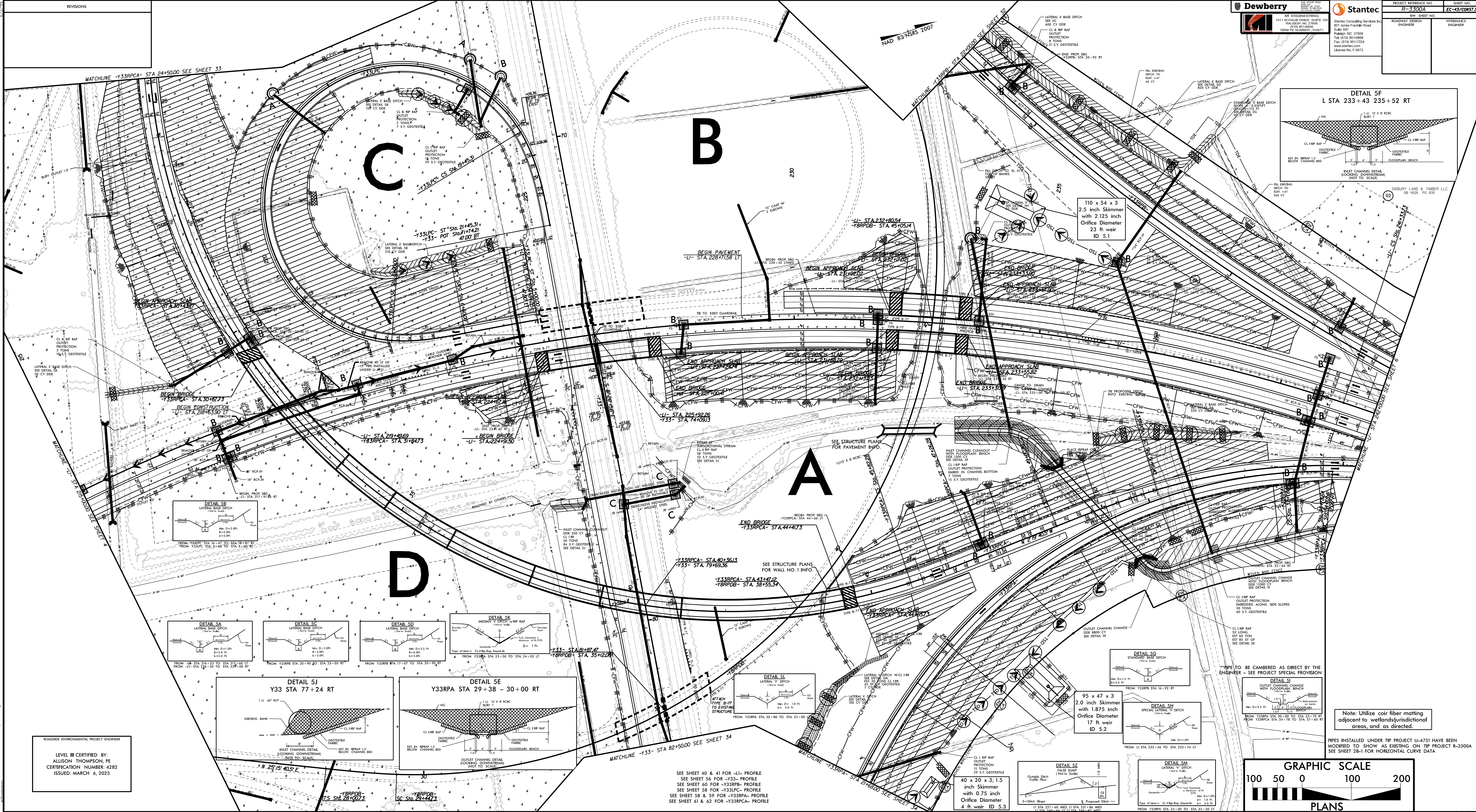
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER

LEVEL III CERTIFIED BY:
ALLISON THOMPSON, PE
CERTIFICATION NUMBER: 4282
ISSUED: MARCH 6, 2025

SEE SHEET 2B-1 FOR HORIZONTAL CURVE DATA

SEE SHEET 40 FOR -LI- PROFILE

PIPES INSTALLED UNDER TIP PROJECT U-4751
HAVE BEEN MODIFIED TO SHOW AS
EXISTING ON TIP PROJECT R-3300A



MR. ENGINEERING
1001 W. 10th Street
Falmouth, ME 04101
(207) 851-1000
www.dewberry.com
License No. F-0672

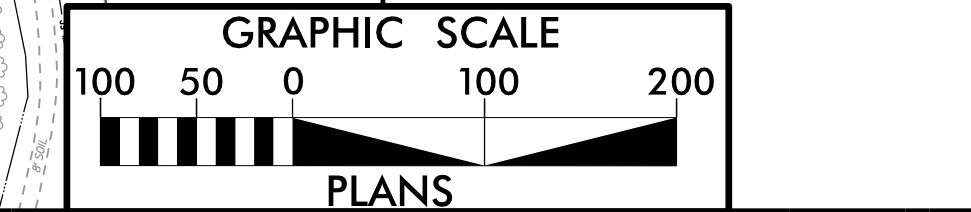
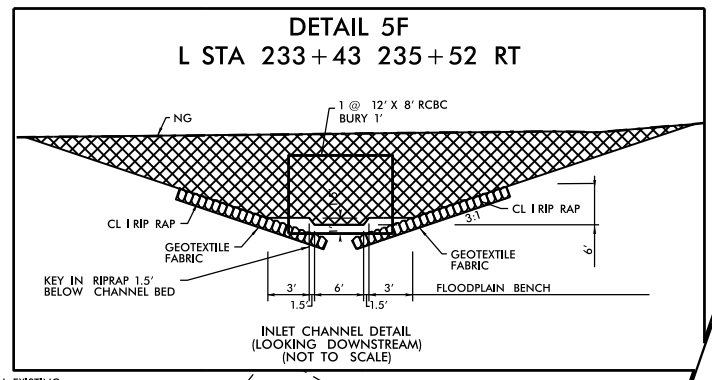
Stantec Consulting Services Inc.
801 Jones Farm Road
Raleigh, NC 27606
(919) 851-1000
www.stantec.com
License No. F-0672

PROJECT REFERENCE NO.
R-3300A

ROW SHEET NO.
EC-43/ROWST.3

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER



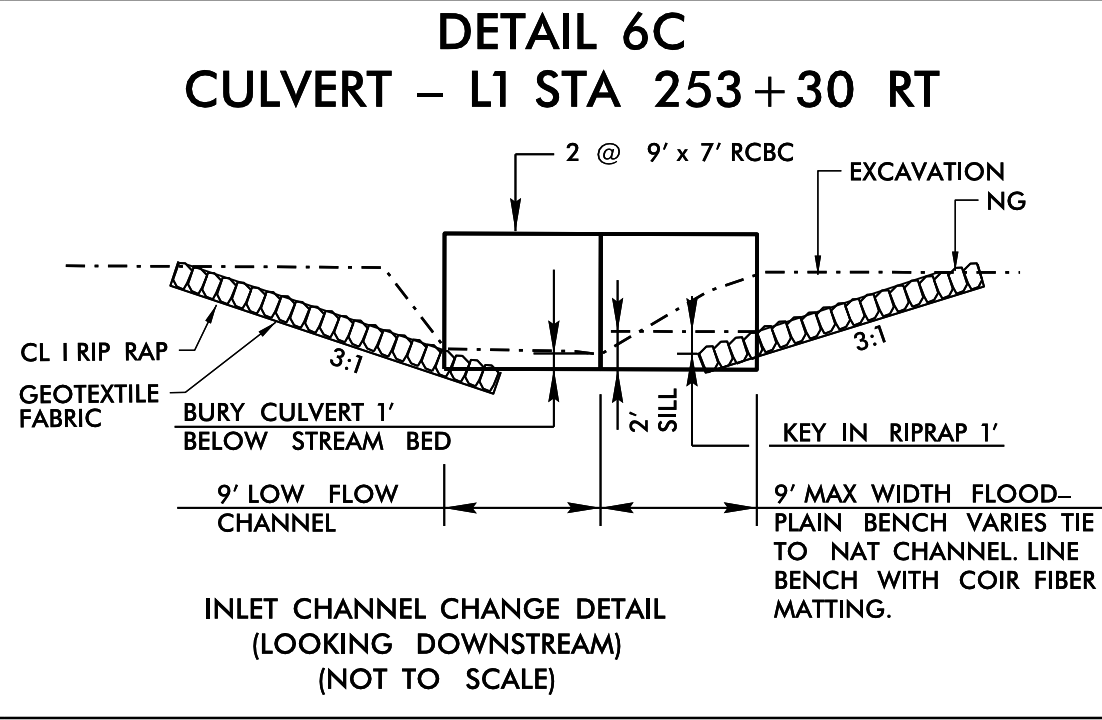
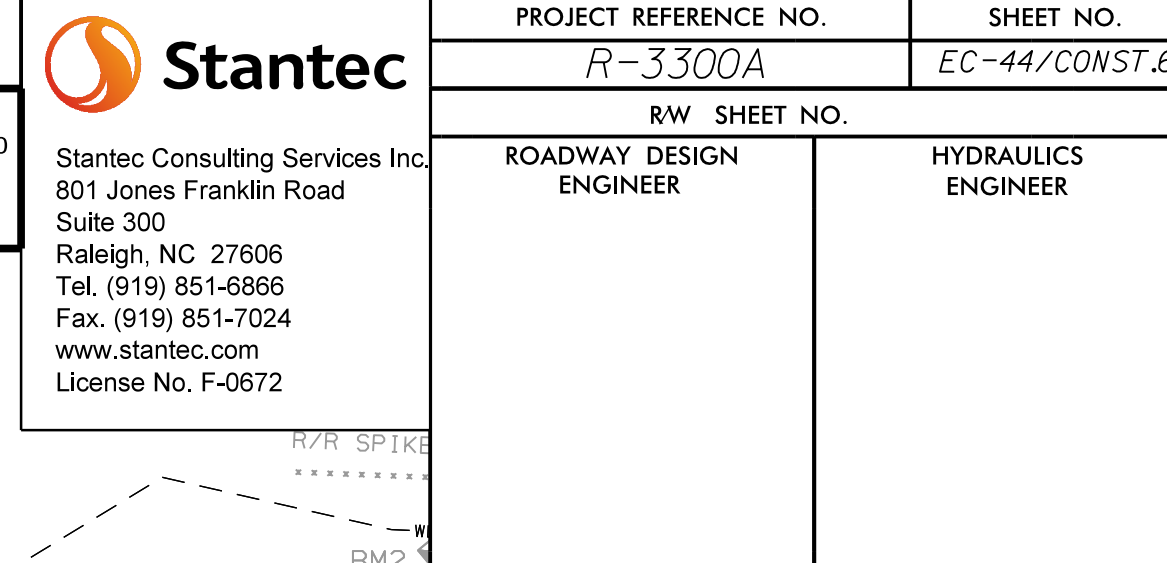
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER

LEVEL III CERTIFIED BY:
ALLISON THOMPSON, PE
CERTIFICATION NUMBER: 4282
ISSUED: MARCH 6, 2025

Note: Utilize coir fiber matting adjacent to wetlands/jurisdictional areas, and as directed.

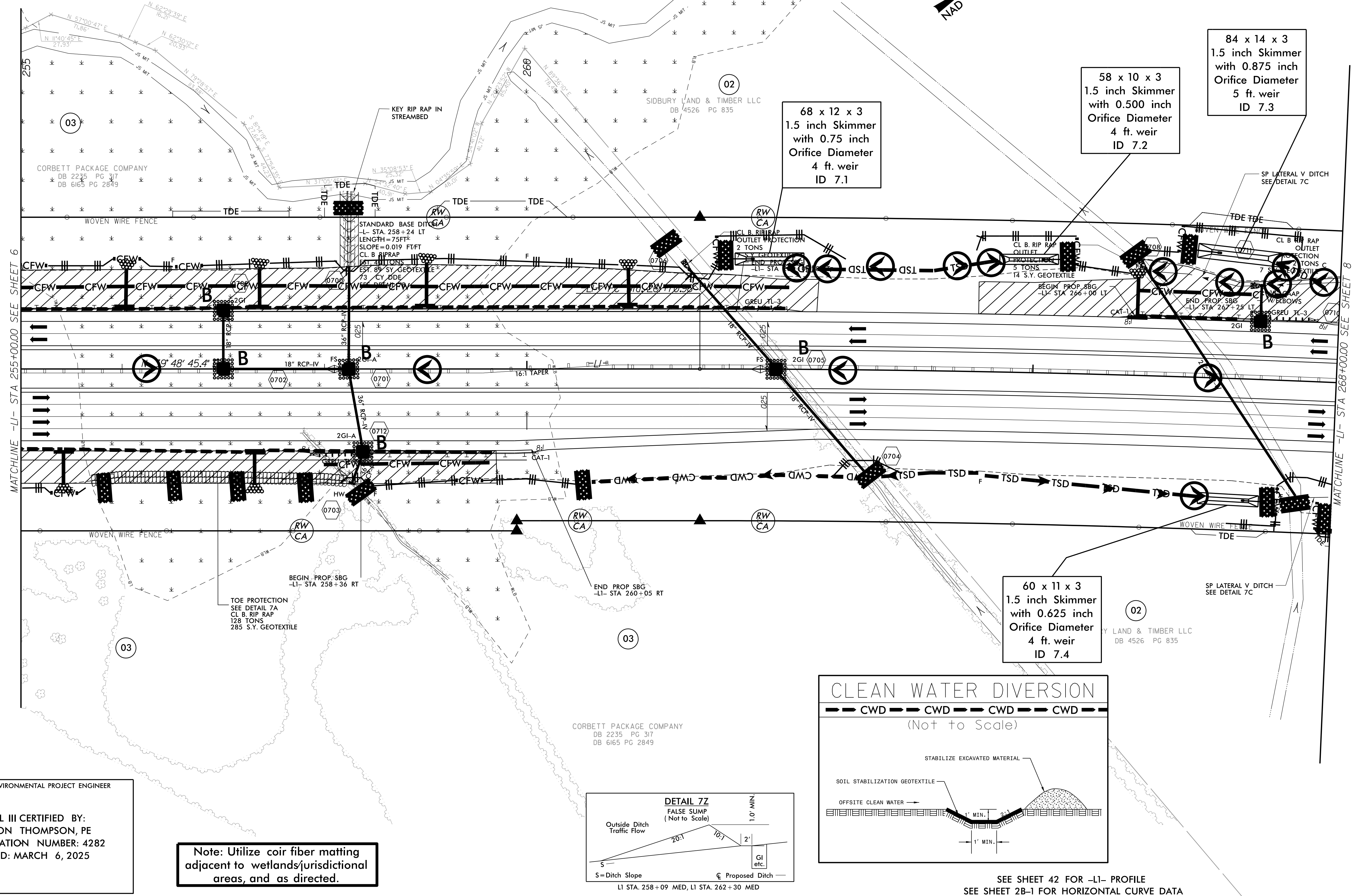
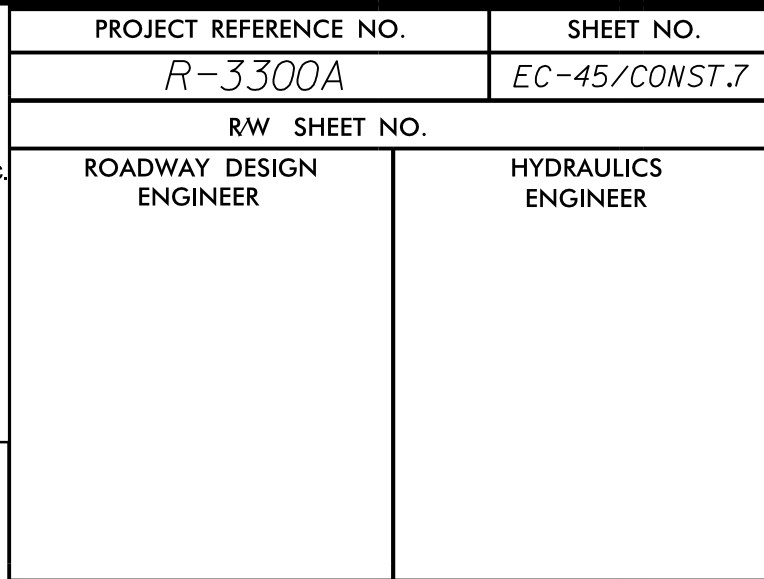
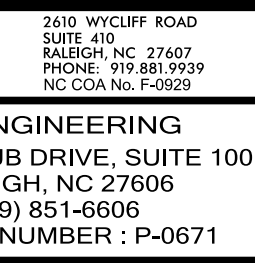
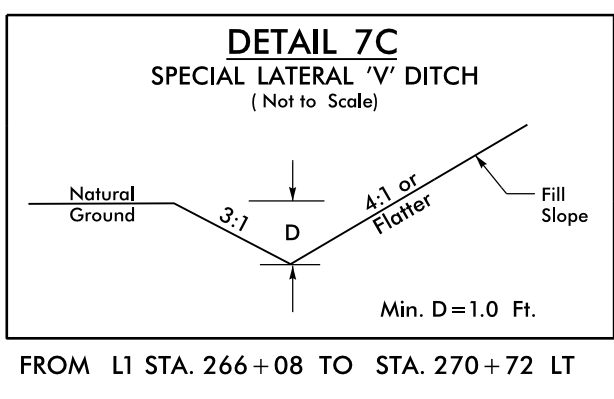
PIPES INSTALLED UNDER TIP PROJECT U-4751 HAVE BEEN MODIFIED TO SHOW AS EXISTING ON TIP PROJECT R-3300A SEE SHEET 28-1 FOR HORIZONTAL CURVE DATA

SEE SHEET 40 & 41 FOR -L- PROFILE
SEE SHEET 56 FOR -Y33- PROFILE
SEE SHEET 60 FOR -Y33RPA- PROFILE
SEE SHEET 58 FOR -Y33LPC- PROFILE
SEE SHEET 58 & 59 FOR -Y33RPA- PROFILE
SEE SHEET 61 & 62 FOR -Y33RPA- PROFILE



Note: Utilize coir fiber matting adjacent to wetlands/jurisdictional areas, and as directed.

SEE SHEET 2B-1 FOR
HORIZONTAL CURVE DATA
SEE SHEET 41 & 42 FOR -L1- PROFILE
SEE SHEET 60 FOR -Y33RPB- PROFILE
SEE SHEET 62 FOR -Y33RPCA- PROFILE

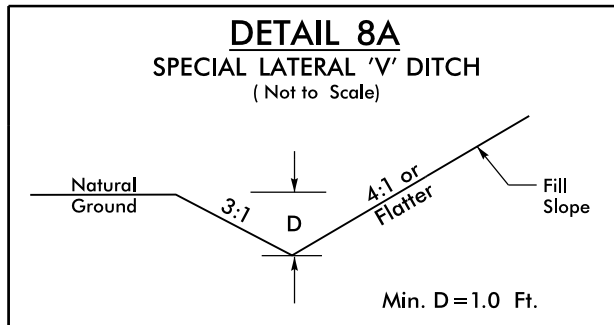


5/14/99

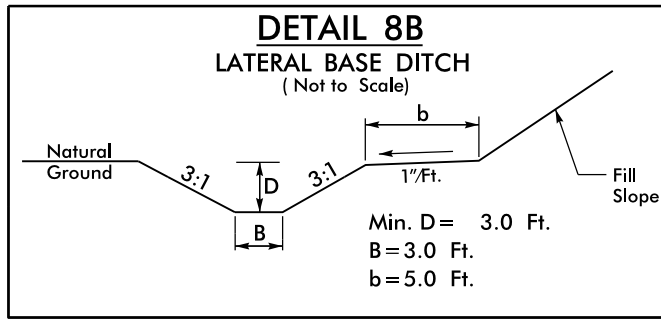
3/5/2025
Hydraulics\Erosion_Control\Plans\RR3300A.ec.psh_46.dgn

BM3 ELEVATION = 41.49
N 210250 E 2356127
BL STATION 47+32.00 407 LEFT
R/R SPIKE IN 8" PINE

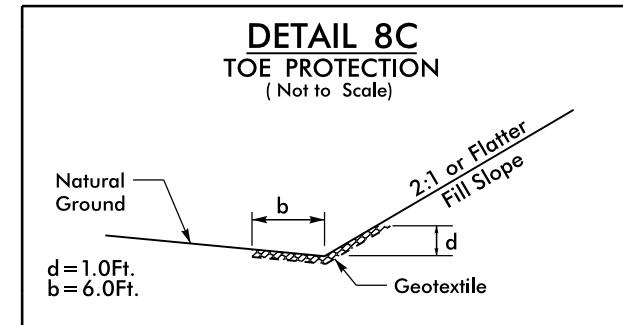
BM3



FROM LI STA. 266+08 TO STA. 270+72 LT
FROM LI STA. 267+63 TO STA. 270+71 RT
FROM LI STA. 271+00 TO STA. 275+93 RT
FROM LI STA. 276+20 TO STA. 278+50 RT
FROM LI STA. 278+51 TO STA. 280+00 RT
FROM LI STA. 271+00 TO STA. 273+00 LT
FROM LI STA. 274+00 TO STA. 275+00 LT



FROM LI STA. 273+00 TO STA. 273+45 LT
FROM LI STA. 273+45 TO STA. 274+00 LT



Type of Liner = CL B Rip-Rap
FROM -LI- STA. 280+00 TO STA. 282+87 RT

Dewberry



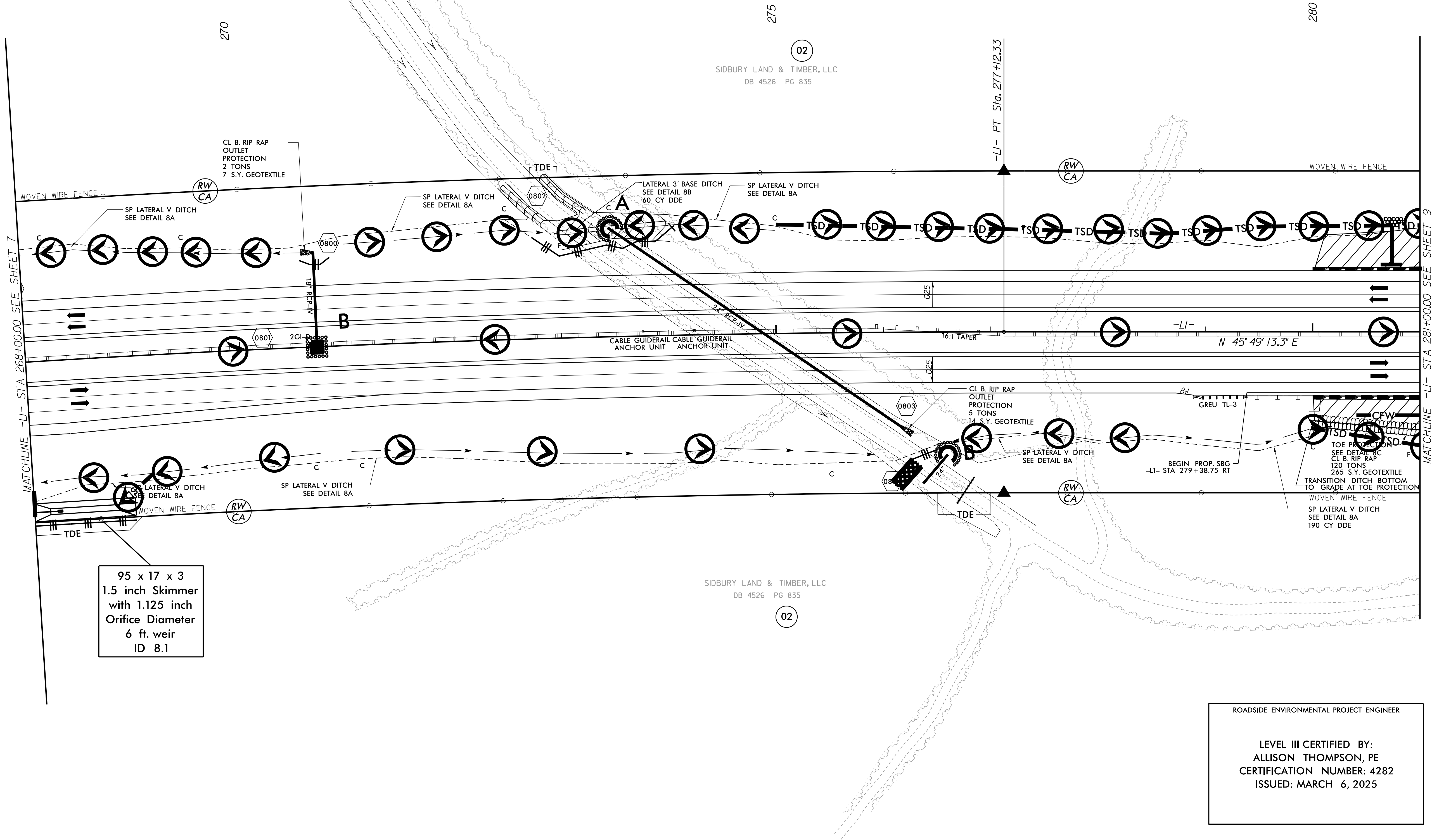
MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6606
FIRM PE NUMBER : P-0671

NAD 83 N5RS 2007

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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-3300A		EC-46/CONST.B
R/W SHEET NO.		HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER		

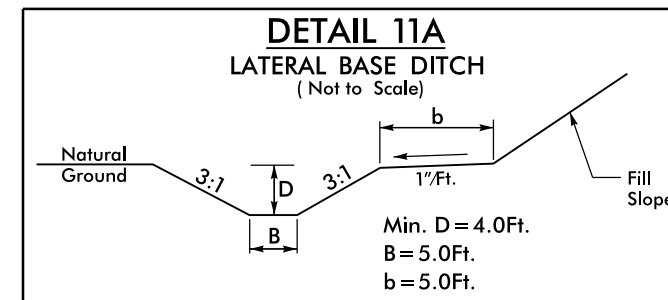


SEE SHEET 42 & 43 FOR -LI- PROFILE
SEE SHEET 28-1 FOR HORIZONTAL CURVE DATA

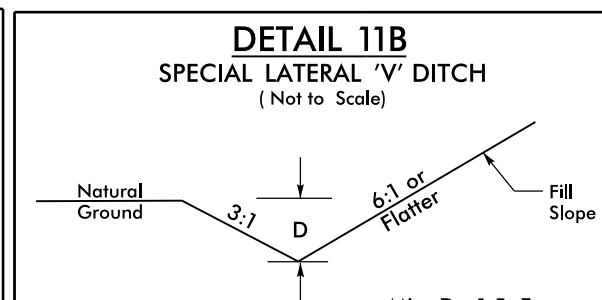
5/14/99

ROADSIDE ENVIRONMENTAL PROJECT ENGINEER

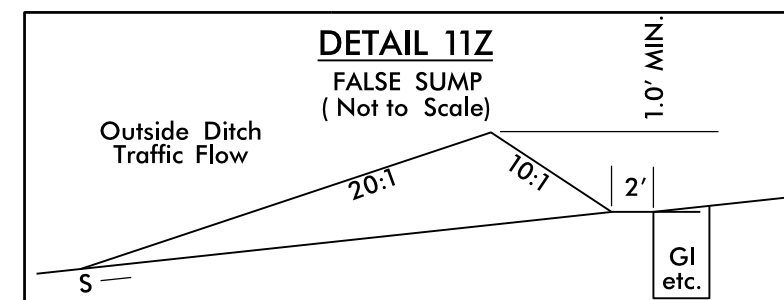
LEVEL III CERTIFIED BY:
ALLISON THOMPSON, PE
CERTIFICATION NUMBER: 4282
ISSUED: MARCH 6, 2025



FROM L1 STA. 312+29 TO STA. 322+05 LT



FROM -L1- STA. 304+27 TO STA. 308+50 LT
FROM -L1- STA. 306+00 TO STA. 309+50 RT



L1 STA. 309+36 MED, L1 STA. 315+85 MED

03A

DEPARTMENT OF TRANSPORTATION
DB 6037 PG 587
DB 2043 PG 870
DB 2010 PG 505
DB 5351 PG 1915
DB 5291 PG 845
DB 5273 PG 2095
DB 1425 PG 0082
MB 2 PG 33

Dewberry



MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6606
FIRM PE NUMBER: P-0671

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801 Jones Franklin Road
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Raleigh, NC 27606
Tel. (919) 851-6866
Fax. (919) 851-7024
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License No. F-0672

PROJECT REFERENCE NO.

R-3300A

SHEET NO.

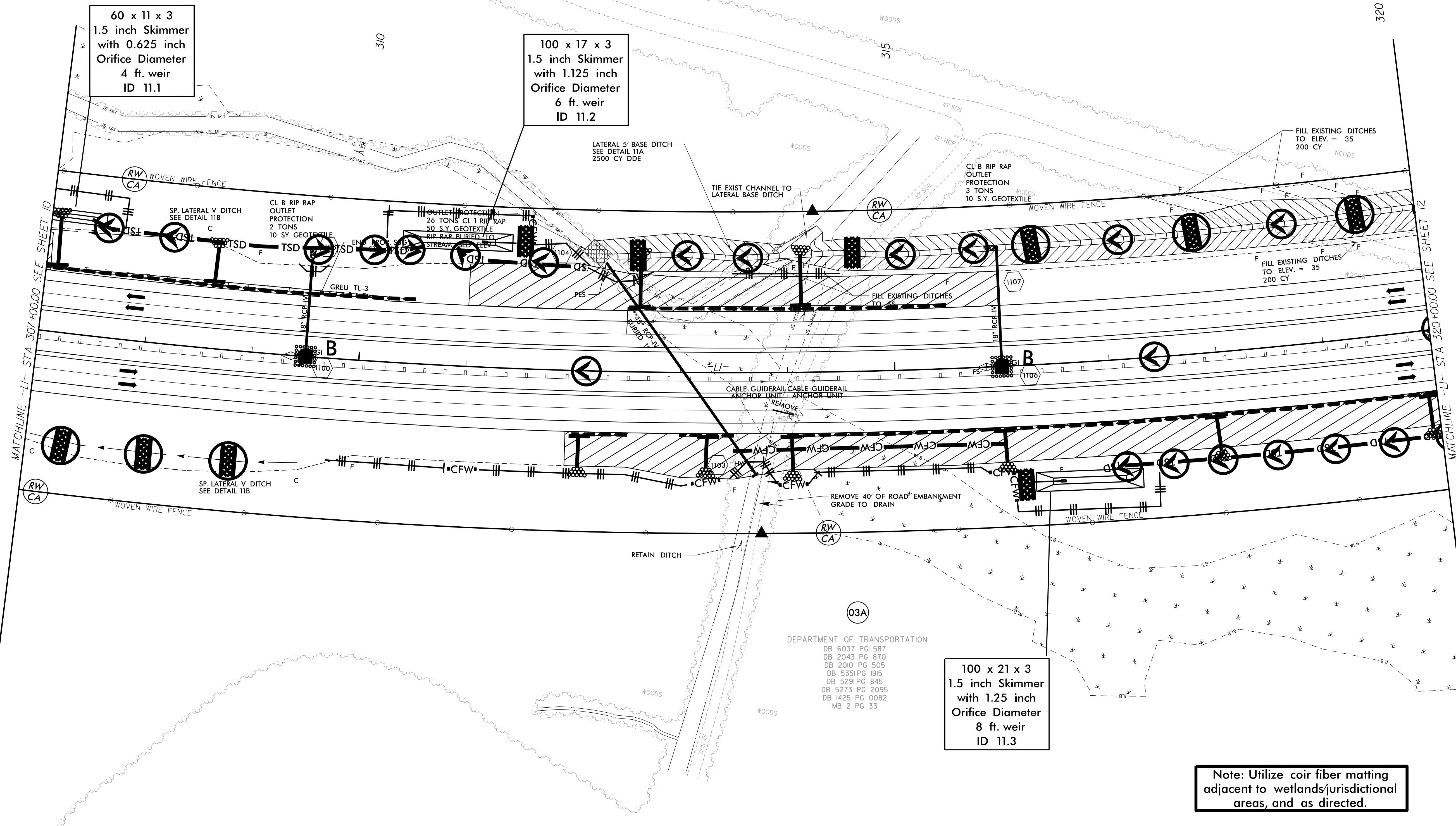
EC-49/CONST.II

R/W SHEET NO.

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

NAD 83/NSRS 2007



Note: Utilize coir fiber matting adjacent to wetlands/jurisdictional areas, and as directed.

SEE SHEET 44 FOR -L1- PROFILE
SEE SHEET 2B-1 FOR HORIZONTAL CURVE DATA

3/5/2025
Hydraulics\ER\Position\Control\Plans\R3300A.ec.psh_49.dgn

5/14/99

3/5/2025
Hydraulics\EROSION\Control\Plans\R3300A.ec.psh_50.dgn

Dewberry



MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6606
FIRM PE NUMBER: P-0671

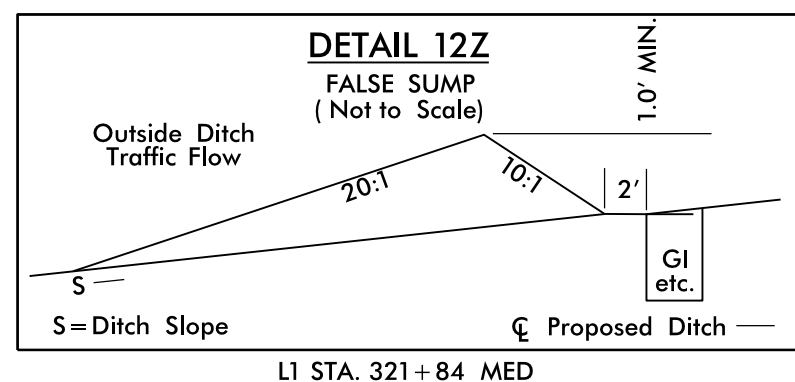
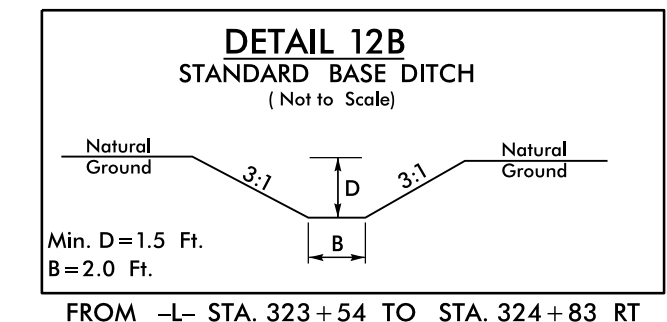
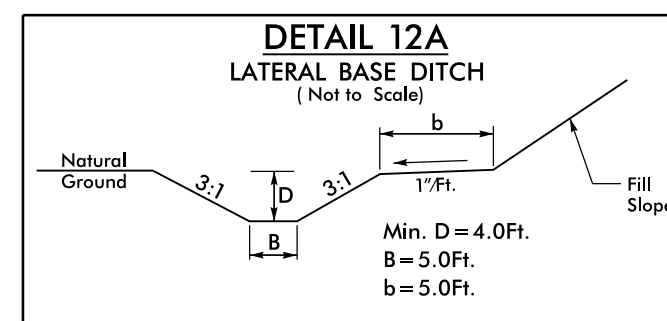
Stantec

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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-3300A		EC-50/CONST.12
R/W SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER

NAD 83/NSRS 2007

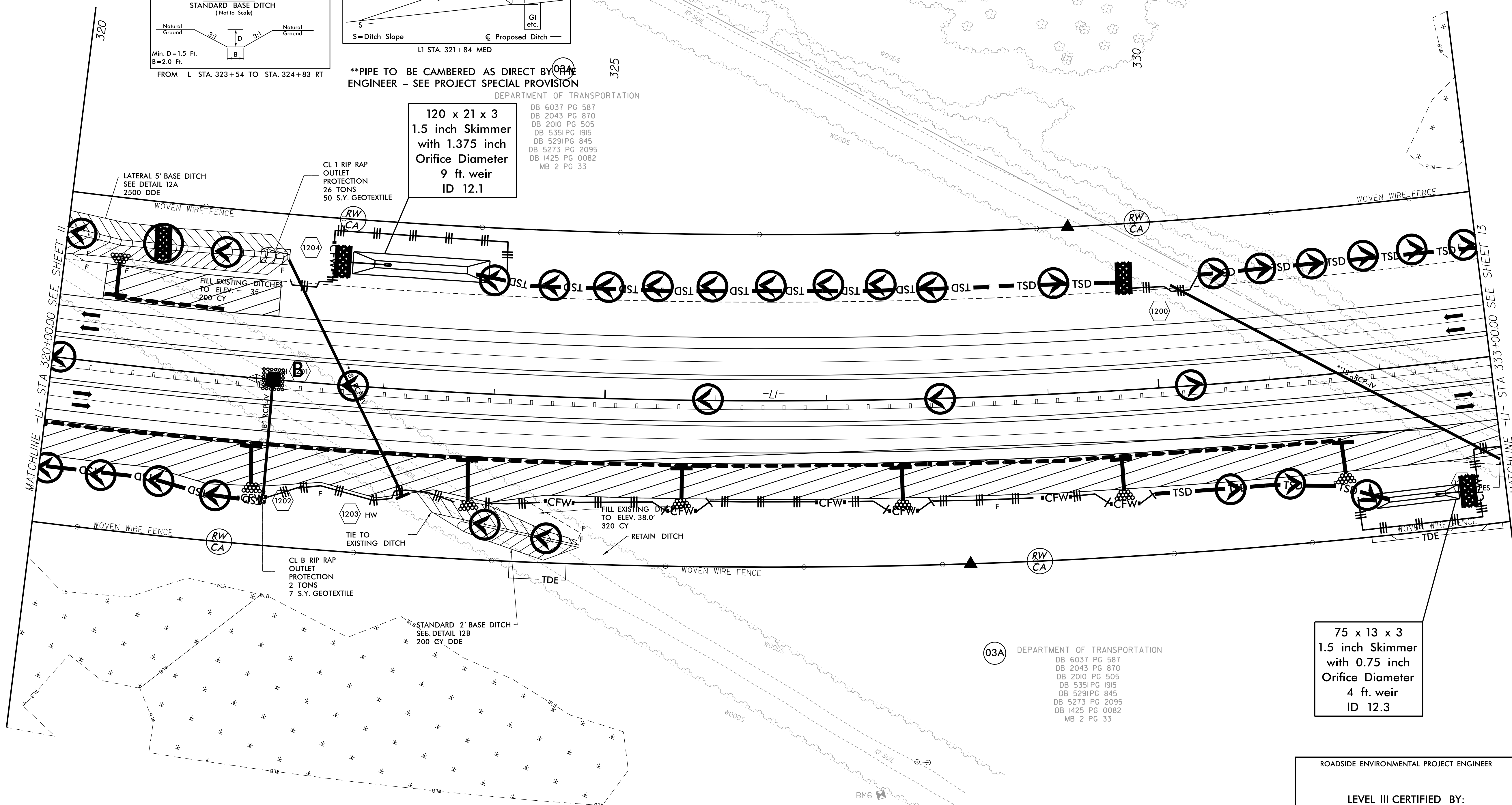
WCM ENTERPRISES, LLC.
DB 2990 PG 714
DB 2369 PG 370
DB 5351 PG 1910
DB 1151 PG 1806
DB 1152 PG 1184
DB 1189 PG 514
DB 1223 PG 1782
MB 2 PG 33



**PIPE TO BE CAMBERED AS DIRECT BY
ENGINEER - SEE PROJECT SPECIAL PROVISION

120 x 21 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
9 ft. weir
ID 12.1

DEPARTMENT OF TRANSPORTATION
DB 6037 PG 587
DB 2043 PG 870
DB 2010 PG 505
DB 5351 PG 1915
DB 5291 PG 845
DB 5273 PG 2095
DB 1425 PG 0082
MB 2 PG 33



03A DEPARTMENT OF TRANSPORTATION
DB 6037 PG 587
DB 2043 PG 870
DB 2010 PG 505
DB 5351 PG 1915
DB 5291 PG 845
DB 5273 PG 2095
DB 1425 PG 0082
MB 2 PG 33

75 x 13 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
4 ft. weir
ID 12.3

ROADSIDE ENVIRONMENTAL PROJECT ENGINEER

LEVEL III CERTIFIED BY:
ALLISON THOMPSON, PE
CERTIFICATION NUMBER: 4282
ISSUED: MARCH 6, 2025

BM6 ELEVATION = 39.77
N 214423 E 2360295
BL STATION 105+63.00 355 RIGHT
R/R SPIKE IN 4" OAK

SEE SHEET 44 & 45 FOR -LI- PROFILE
SEE SHEET 2B-1 FOR HORIZONTAL CURVE DATA

5/14/99

ROADSIDE ENVIRONMENTAL PROJECT ENGINEER

LEVEL III CERTIFIED BY:
ALLISON THOMPSON, PE
CERTIFICATION NUMBER: 4282
ISSUED: MARCH 6, 2025

Dewberry



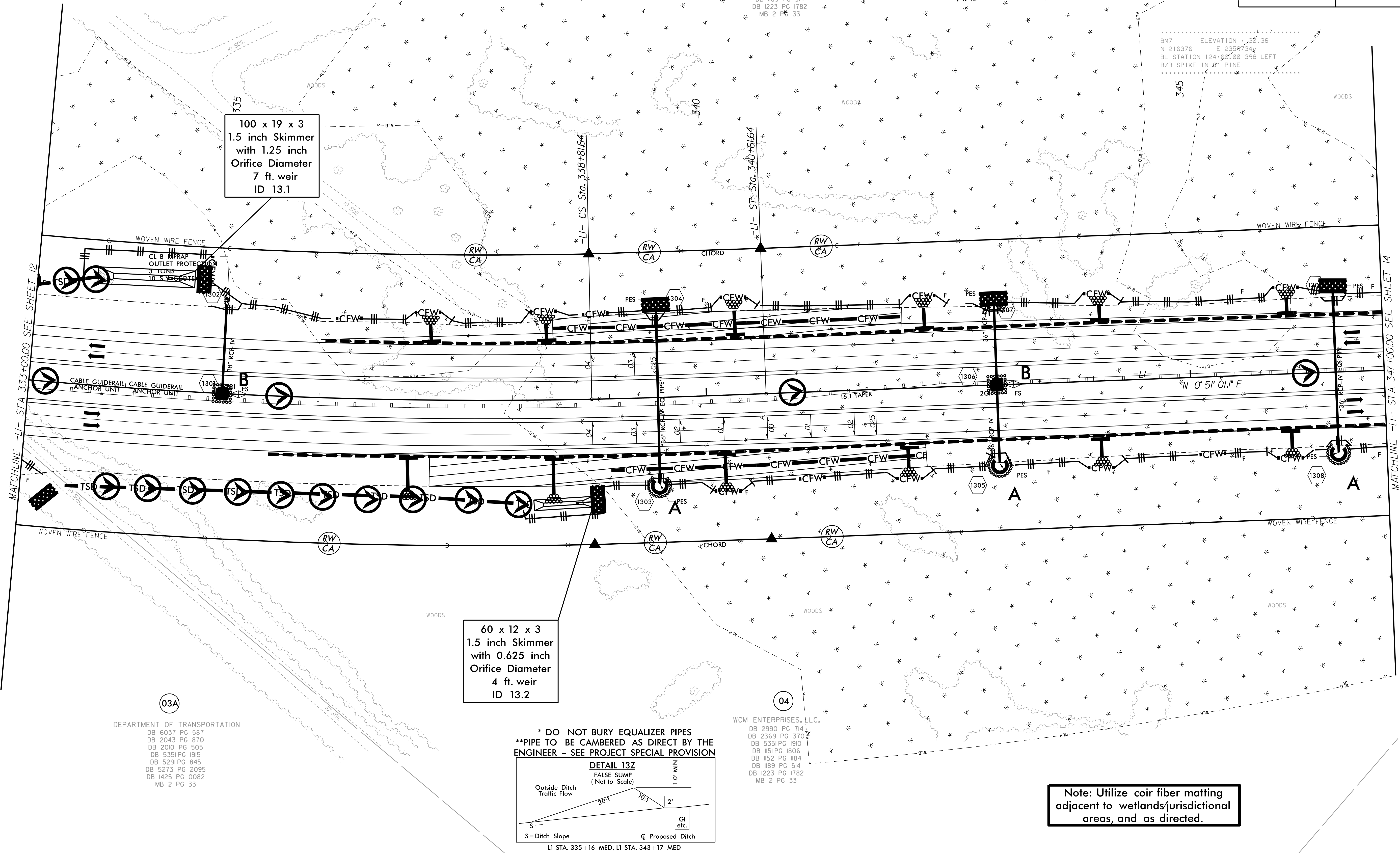
MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6806
FIRM PE NUMBER: P-0671

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-3300A		EC-51/CONST.13
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	

NAD 83/NSRS 2007

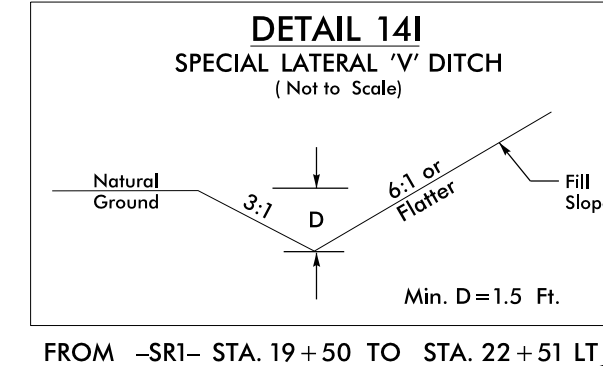
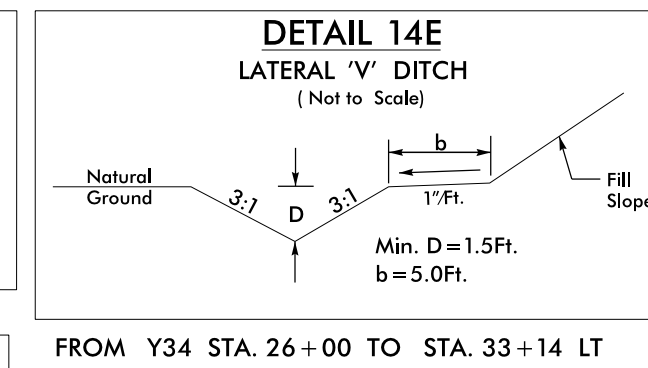
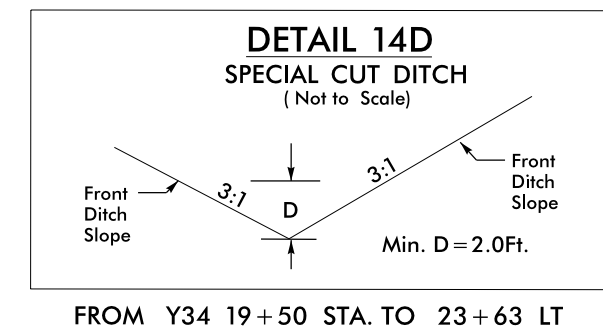
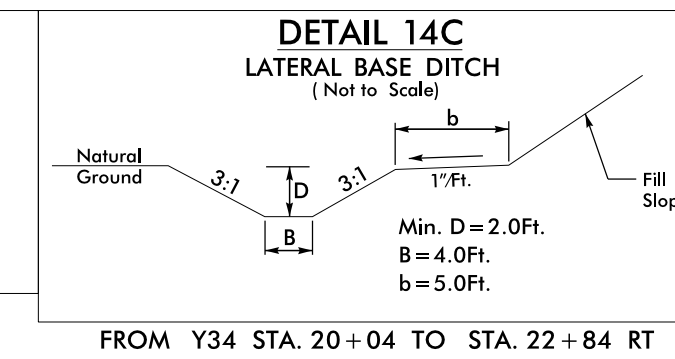
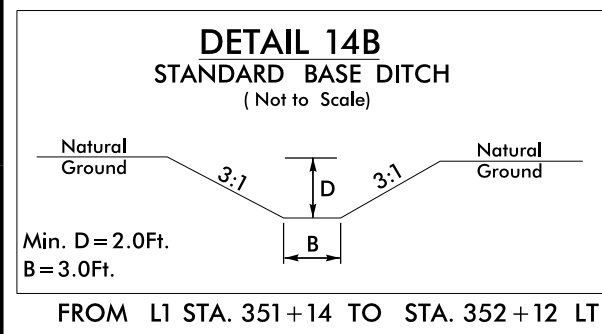


SEE SHEET 45 FOR -L1- PROFILE
SEE SHEET 2B-1 FOR HORIZONTAL CURVE DATA

5/14/99

REVISIONS
RW REV. FEB 2024: REVISED PUE ON PARCEL 12. -STANTEC

3/5/2025
Hydraulics\Corrosion Control\Plans\R3300A.ec.psh.52.dgn



ROADSIDE ENVIRONMENTAL PROJECT ENGINEER

LEVEL III CERTIFIED BY:
ALLISON THOMPSON, PE
CERTIFICATION NUMBER: 4282
ISSUED: MARCH 6, 2025

WCM ENTERPRISES, LLC.
DB 2990 PG 714
DB 2369 PG 370
DB 5351 PG 1910
DB 1151 PG 1806
DB 1152 PG 1884
DB 1189 PG 514
DB 1223 PG 1782
MB 2 PG 33

100 x 22 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
8 ft. weir
ID 14.1

LATERAL 'V' BASE DITCH
SEE DETAIL 14C
230 CY DDE

3' BASE DITCH
SEE DETAIL 14B
100 CY DDE

CL I RIP RAP
OUTLET PROTECTION
15 TONS
22 S.Y. GEOTEXTILE

CL B RIP RAP
OUTLET PROTECTION
5 TONS
14 S.Y. GEOTEXTILE

END PROP. SBG
Y34- STA. 23+15 LT

CL B RIP RAP
OUTLET PROTECTION
5 TONS
14 S.Y. GEOTEXTILE

REMOVE EXIST ROADWAY
EMBANKMENT AND GRADE
TO DRAIN TO DITCH TO

SPECIAL LATERAL
BASE DITCH
SEE DETAIL 14E

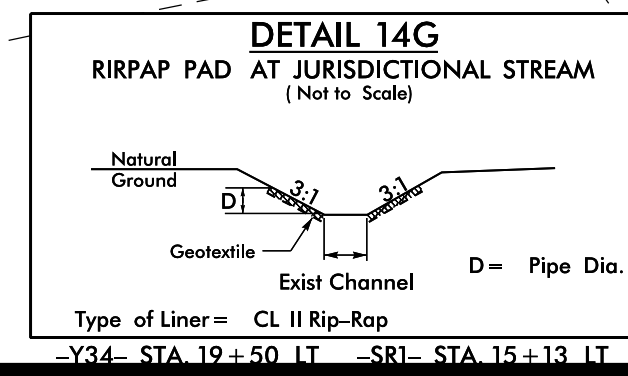
CL B RIP RAP
OUTLET PROTECTION
3 TONS
10 S.Y. GEOTEXTILE

CL B RIP RAP
OUTLET PROTECTION
3 TONS
10 S.Y. GEOTEXTILE

MATCHLINE -LI- STA 347+00.00 SEE SHEET 13

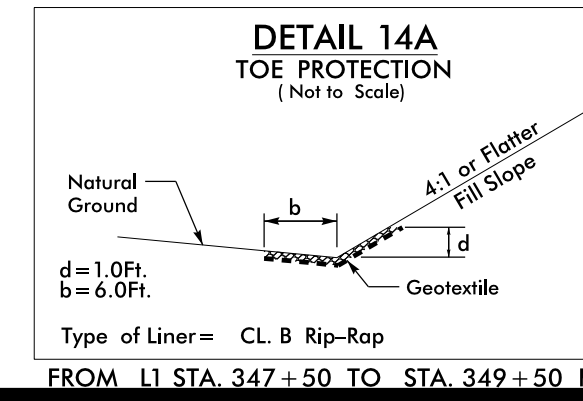
MATCHLINE -LI- STA 360+00.00 SEE SHEET 15

*PIPE TO BE CAMBERED AS DIRECT BY THE
ENGINEER - SEE PROJECT SPECIAL PROVISION



DEPARTMENT OF TRANSPORTATION
DB 6037 PG 587
DB 2043 PG 870
DB 2010 PG 805
DB 5351 PG 1915
DB 5291 PG 845
DB 5273 PG 2095
DB 1425 PG 0082
MB 2 PG 33

SEE SHEET 45 & 46 FOR -LI- PROFILE
SEE SHEET 63 FOR -Y34- PROFILE
SEE SHEET 65 FOR -SRI- PROFILE
SEE SHEET 28-1 FOR HORIZONTAL CURVE DATA



Note: Utilize coir fiber matting
adjacent to wetlands/jurisdictional
areas, and as directed.

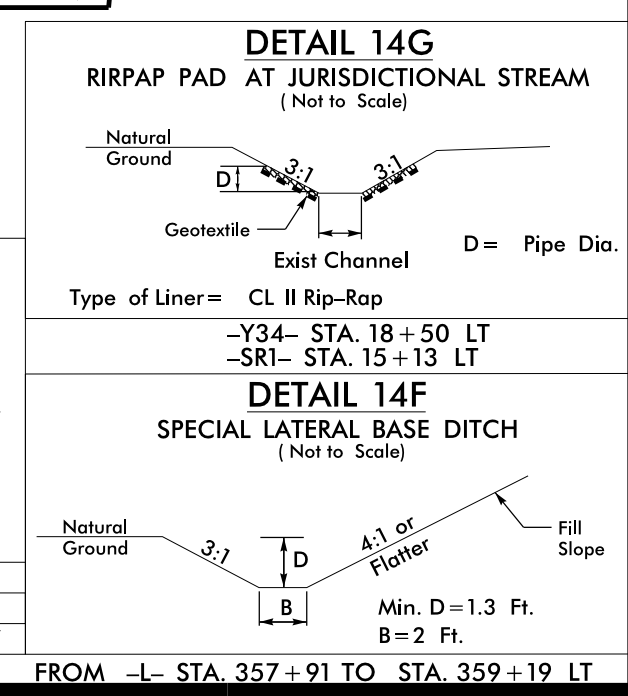
DETAIL 14J
FALSE SUMP
(Not to Scale)

Min. D=1.0Ft.
b=6.0Ft.

Type of Liner = CL B Rip-Rap

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

FROM L1 STA. 347+50 TO STA. 349+50 RT



NAD 83/NSRS 2007

Dewberry



MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6806
FIRM PE NUMBER: P-0671

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-3300A	EC-52/CONST.14
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

RIPRAP AT JURISDICTIONAL
STREAM CL II RIPRAP
40 TONS SEE DETAIL 14G

SP. LATERAL V DITCH
SEE DETAIL 14D

CL B RIPRAP
OUTLET PROTECTION
3 TONS
10 S.Y. GEOTEXTILE

SP. LAT. V DITCH
SEE DETAIL 14F

CL B RIPRAP
OUTLET PROTECTION
3 TONS
10 S.Y. GEOTEXTILE

CL B RIPRAP
OUTLET PROTECTION
3 TONS
10 S.Y. GEOTEXTILE

CL B RIPRAP
OUTLET PROTECTION
3 TONS
10 S.Y. GEOTEXTILE

CL B RIPRAP
OUTLET PROTECTION
3 TONS
10 S.Y. GEOTEXTILE

CL B RIPRAP
OUTLET PROTECTION
3 TONS
10 S.Y. GEOTEXTILE

CL B RIPRAP
OUTLET PROTECTION
3 TONS
10 S.Y. GEOTEXTILE

CL B RIPRAP
OUTLET PROTECTION
3 TONS
10 S.Y. GEOTEXTILE

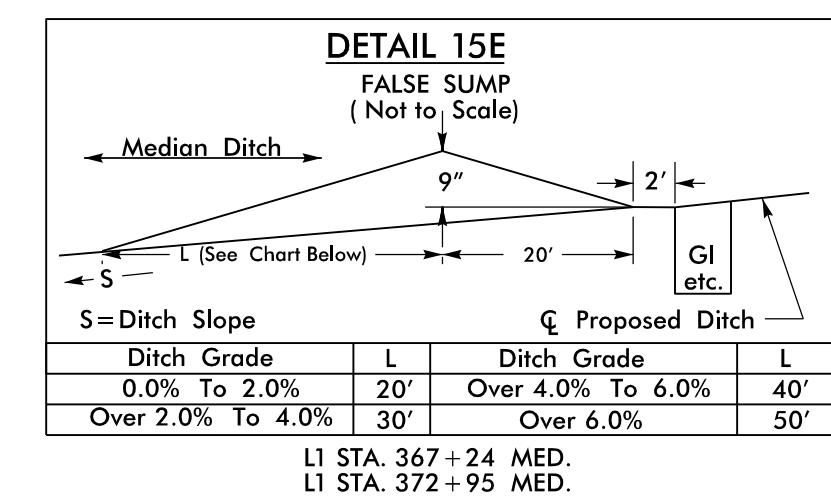
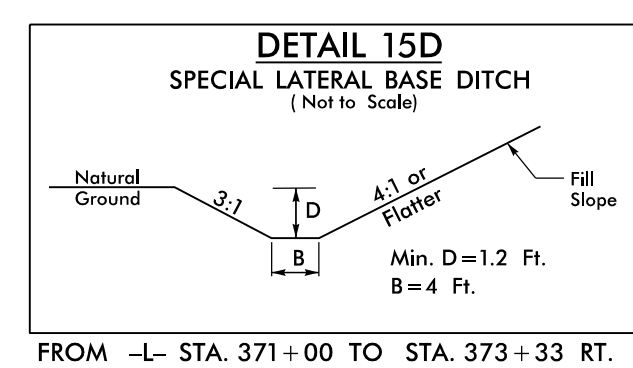
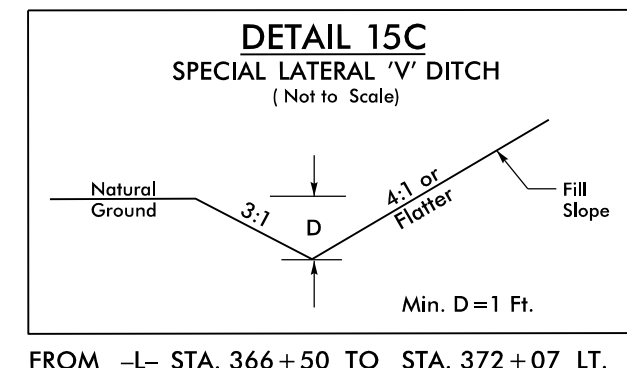
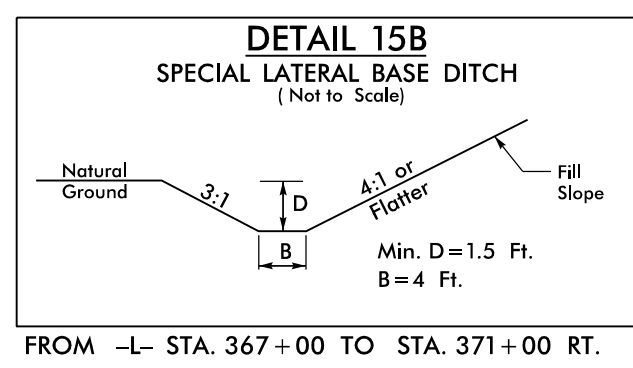
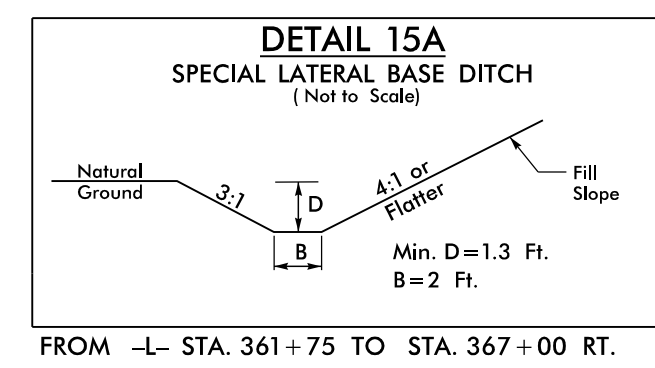
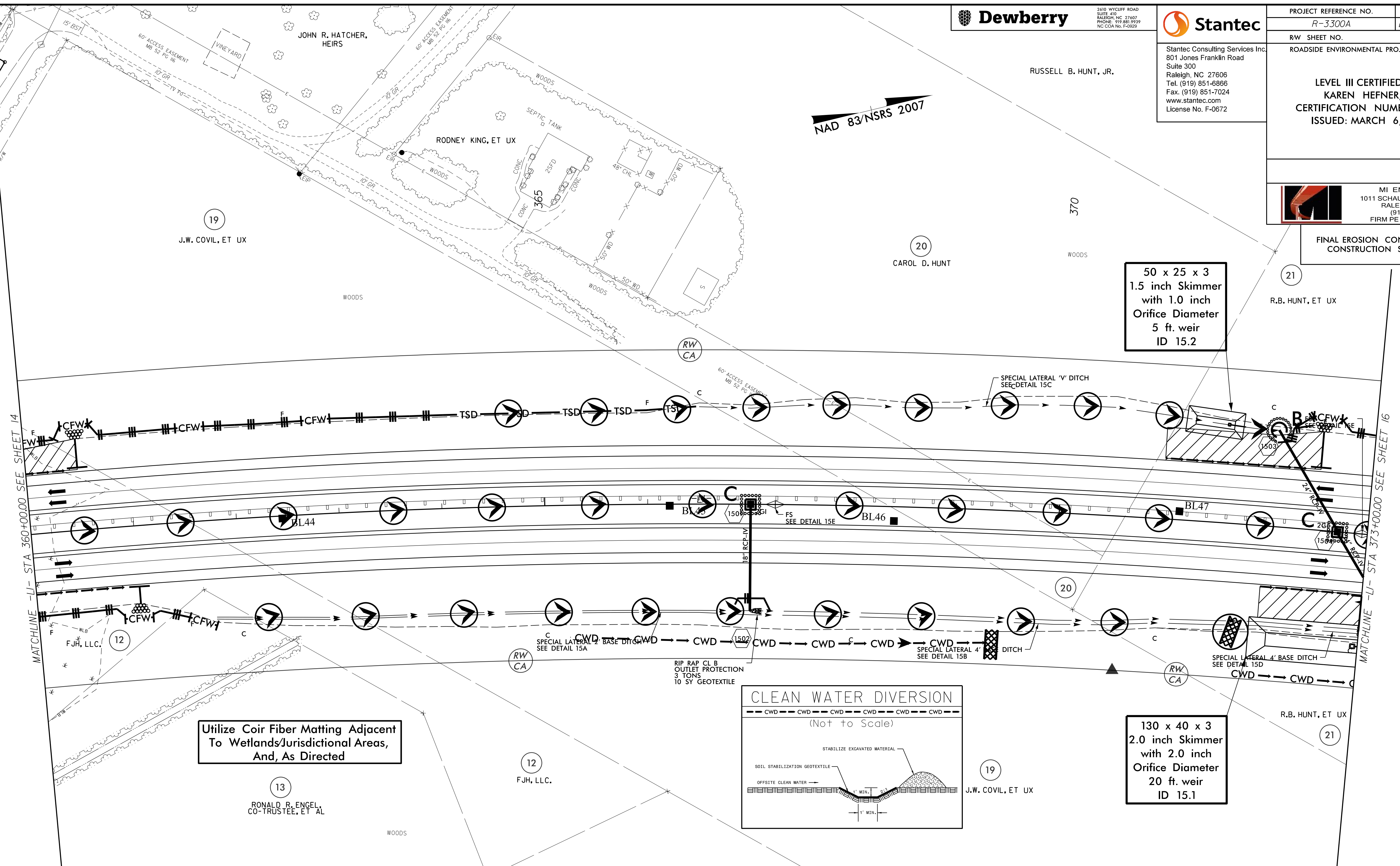
CL B RIPRAP
OUTLET PROTECTION
3 TONS
10 S.Y. GEOTEXTILE

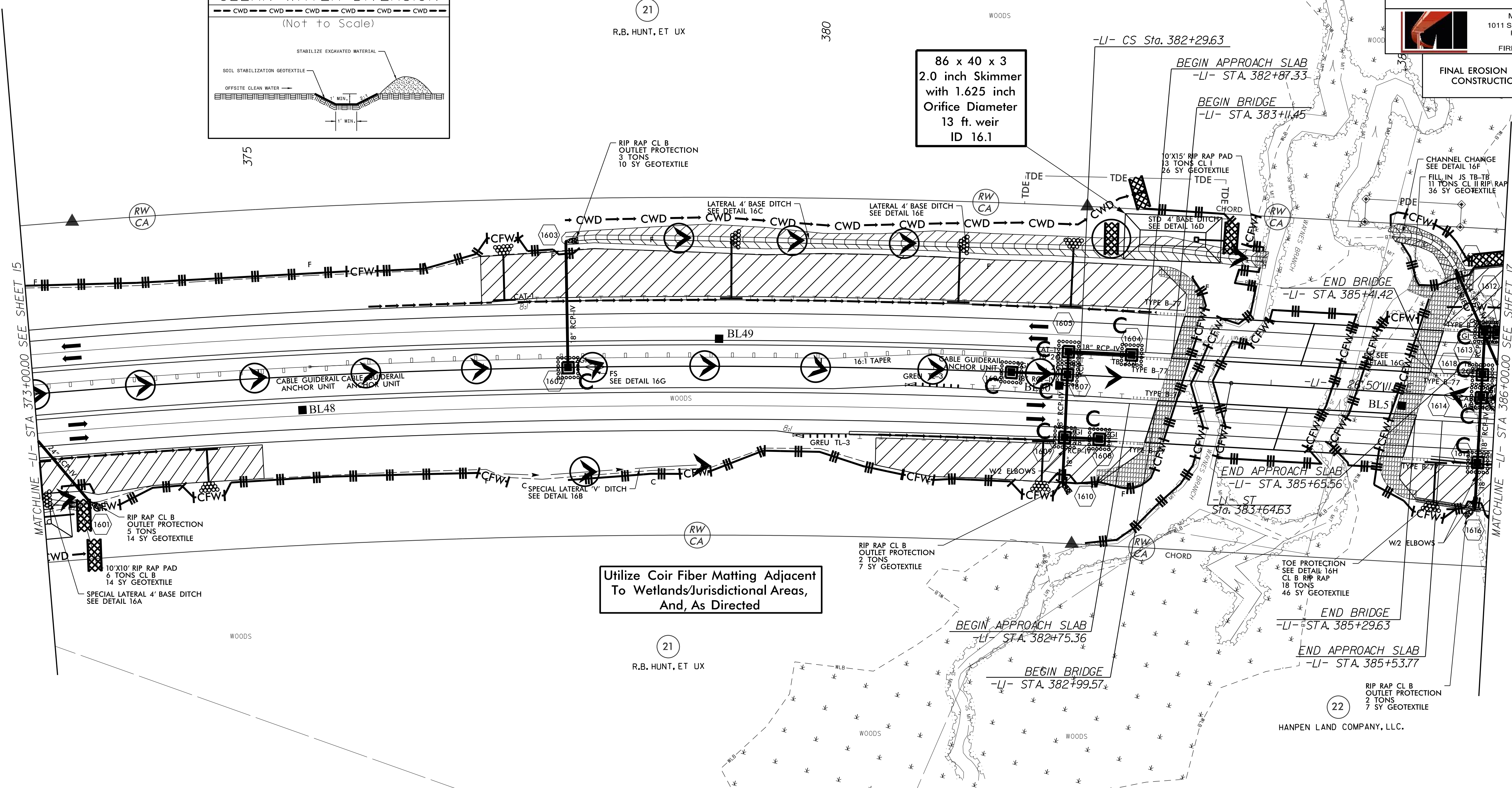
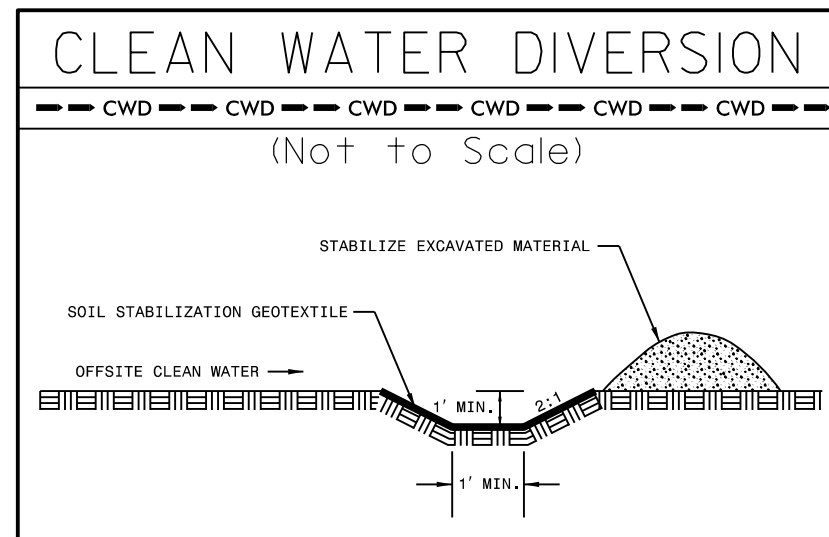
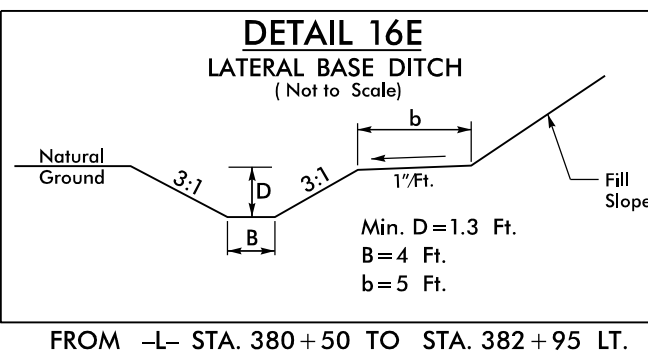
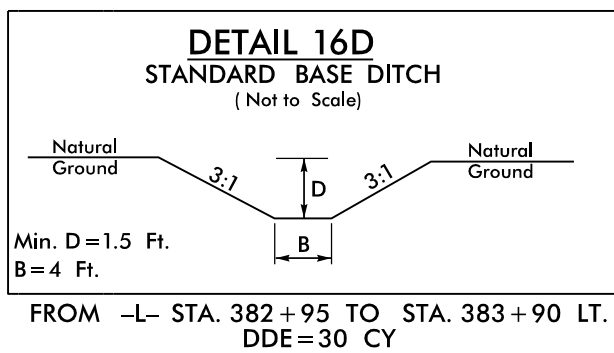
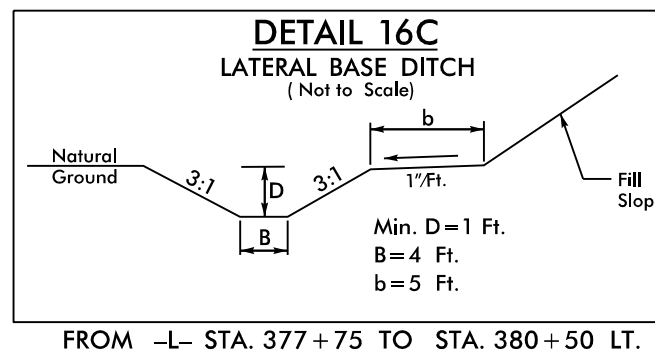
CL B RIPRAP
OUTLET PROTECTION
3 TONS
10 S.Y. GEOTEXTILE

CL B RIPRAP
OUTLET PROTECTION
3 TONS
10 S.Y. GEOTEXTILE

CL B RIPRAP
OUTLET PROTECTION
3 TONS
10 S.Y. GEOTEXTILE

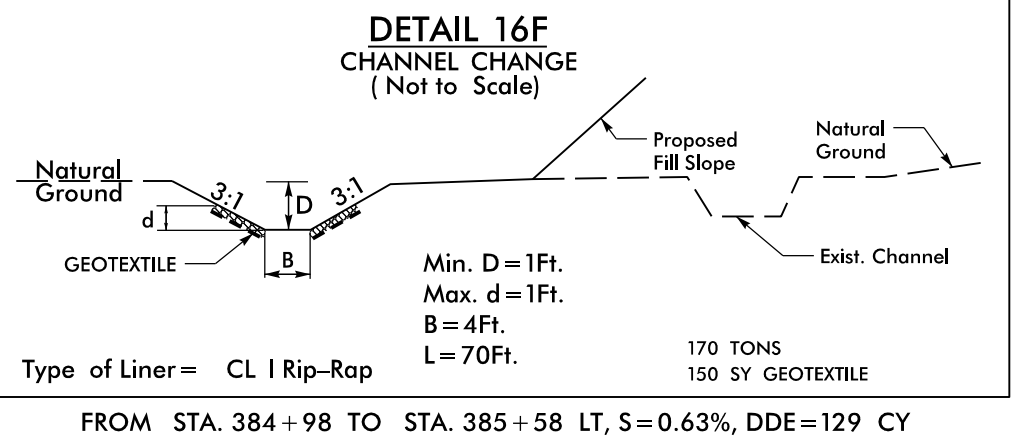
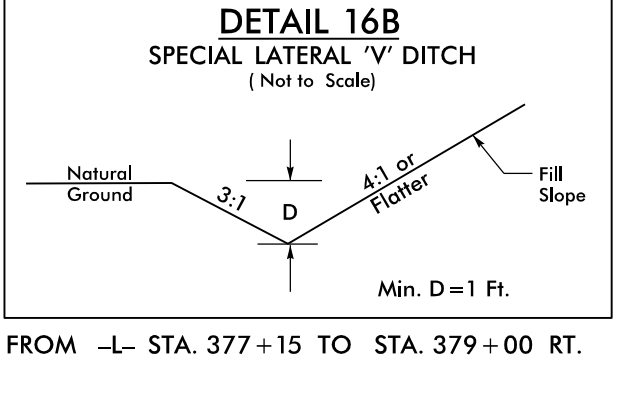
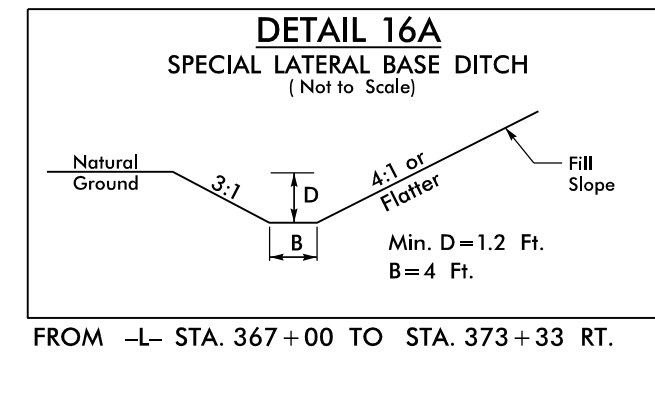
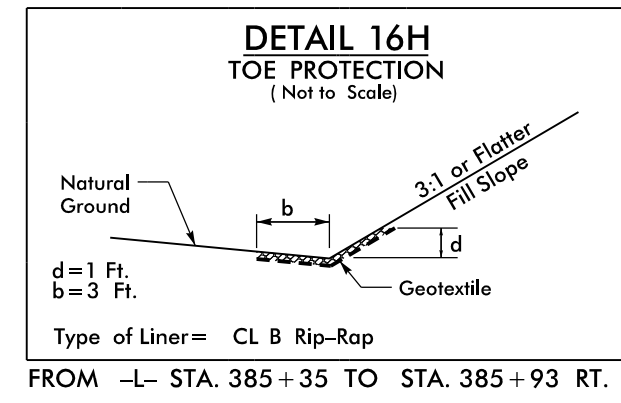
CL B RIPRAP
OUTLET PROTECTION
3 TONS
10 S.Y. GEOTEXTILE





Utilize Coir Fiber Matting Adjacent
To Wetlands/Jurisdictional Areas,
And, As Directed

** PIPE TO BE CAMBERED AS DIRECT BY THE
ENGINEER - SEE PROJECT SPECIAL PROVISION

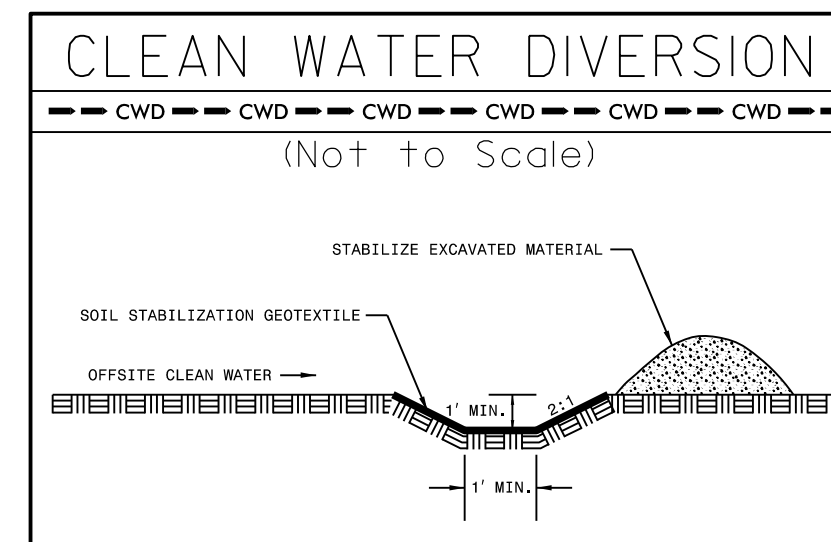


DETAIL 16G
FALSE SUMP
(Not to Scale)

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

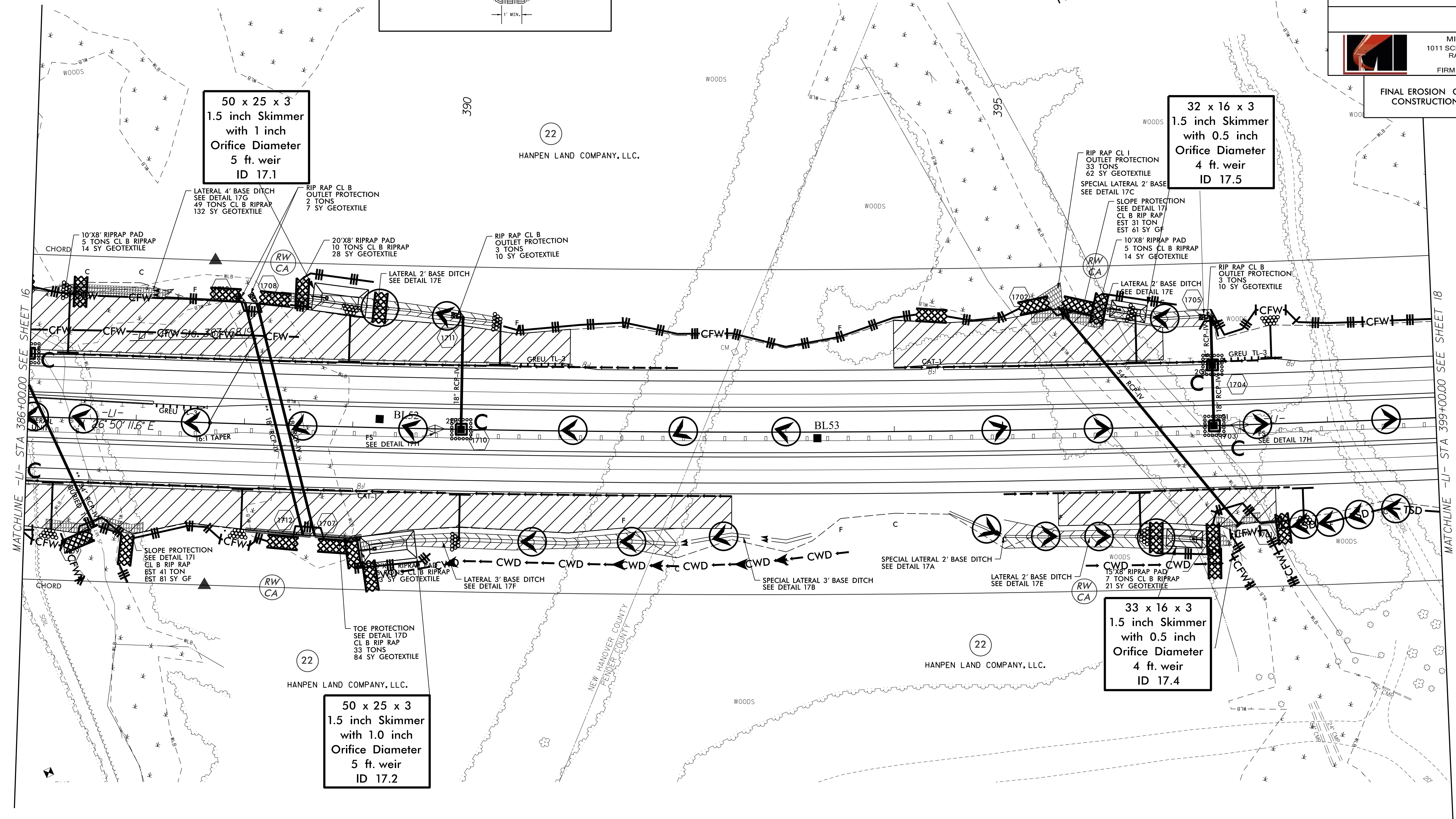
L1 STA. 377+99 MED.
L1 STA. 385+63 MED.

SEE SHEETS 46 & 47 FOR -L1- PROFILE



Utilize Coir Fiber Matting Adjacent
To Wetlands/Jurisdictional Areas,
And, As Directed

NAD 83/NSRS 2007



DETAIL 17A
SPECIAL LATERAL BASE DITCH
 (Not to Scale)

Natural Ground

3:1

D

4:1 or Flatter

Fill Slope

B

Min. D = 1 Ft.
 B = 2 Ft.

DETAIL 17B
SPECIAL LATERAL BASE DITCH
 (Not to Scale)

Natural Ground 3:1 D 4:1 or Flatter Fill Slope

Min. D = 1 Ft.
 B = 3 Ft.

DETAIL 17H
FALSE SUMP
(Not to Scale)

$S = \text{Ditch Slope}$ $\nabla \text{ Proposed Ditch}$

Ditch Grade	2'	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 6.0%	50'
Over 2.0% To 4.0%	30'	Over 6.0%	

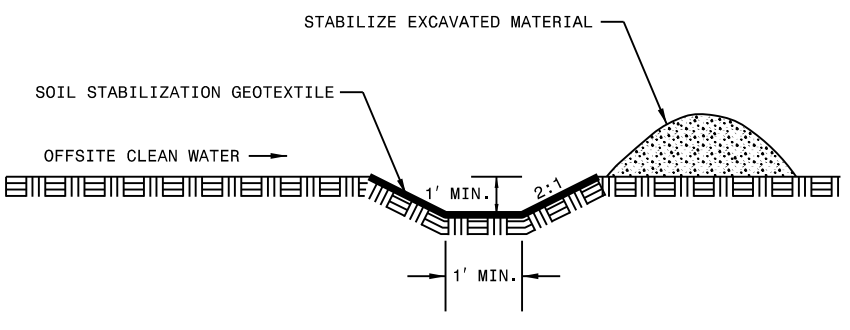
LI STA. 389 + 76 MED.
LI STA. 392 + 18 MED.

FROM	TO	STA. 386 + 20	TO	STA. 387 + 10 RT.
FROM	—	STA. 395 + 28	TO	STA. 395 + 95 LT.
FROM	—	STA. 391 + 25	TO	STA. 397 + 35 RT.

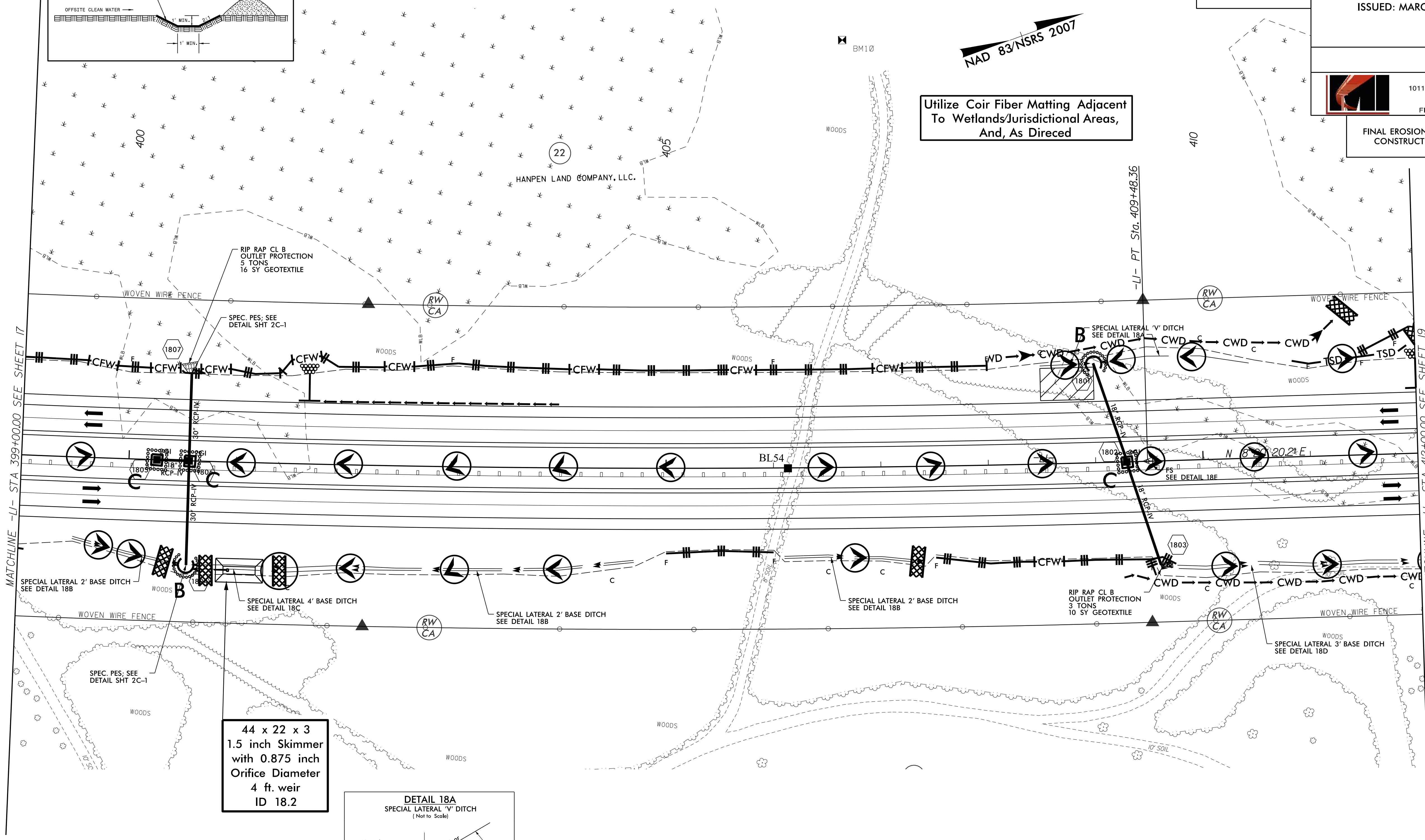
SEE SHEET 47 FOR -L1- PROFILE

CLEAN WATER DIVERSION

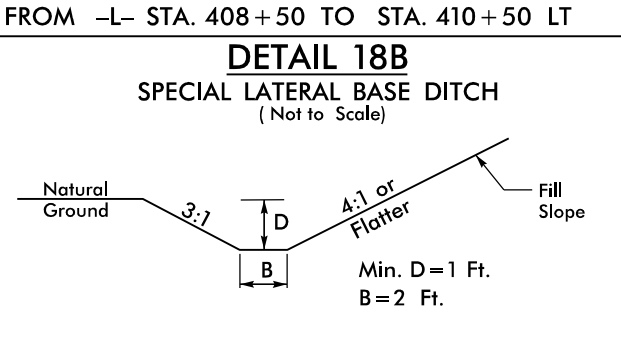
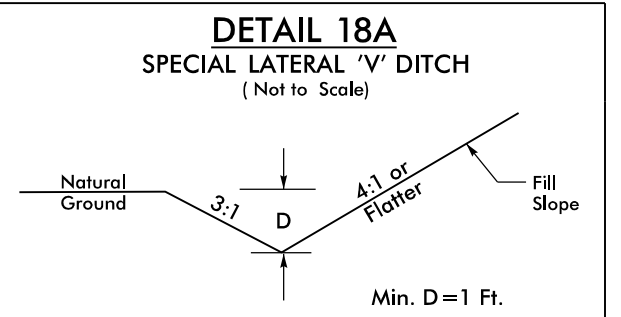
--- CWD --- CWD --- CWD --- CWD --- CWD --- CWD ---
(Not to Scale)



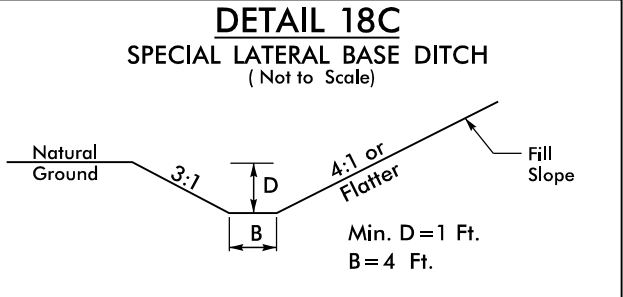
Utilize Coir Fiber Matting Adjacent
To Wetlands/Jurisdictional Areas,
And, As Directed



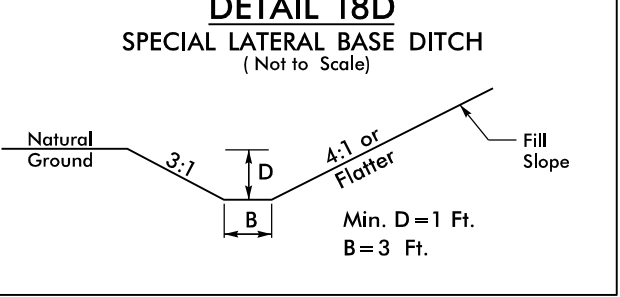
44 x 22 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
4 ft. weir
ID 18.2



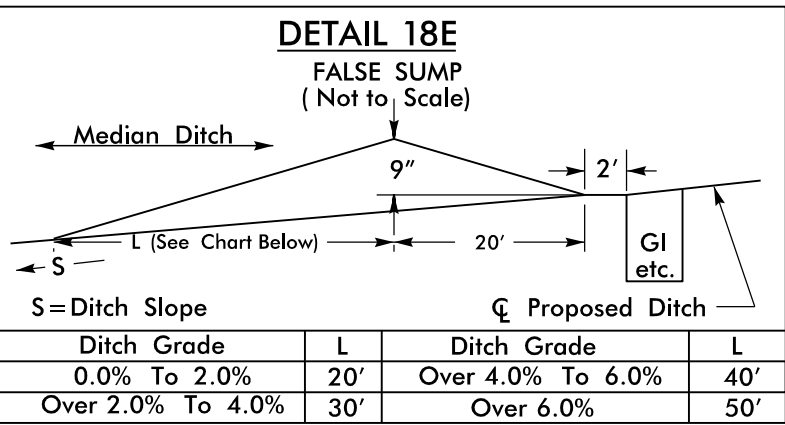
FROM -L- STA. 399+50 TO STA. 400+56 RT
FROM -L- STA. 402+50 TO STA. 404+70 RT
FROM -L- STA. 406+10 TO STA. 407+40 RT



FROM -L- STA. 400+56 TO STA. 402+50 RT

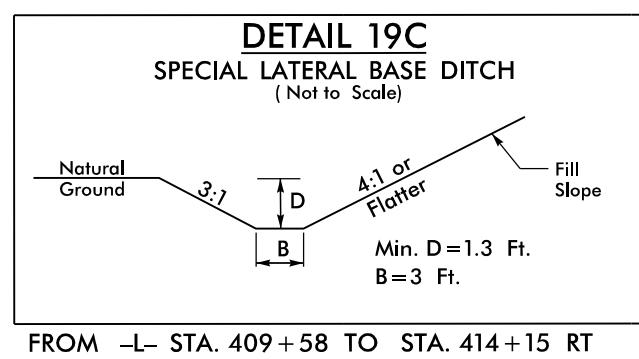
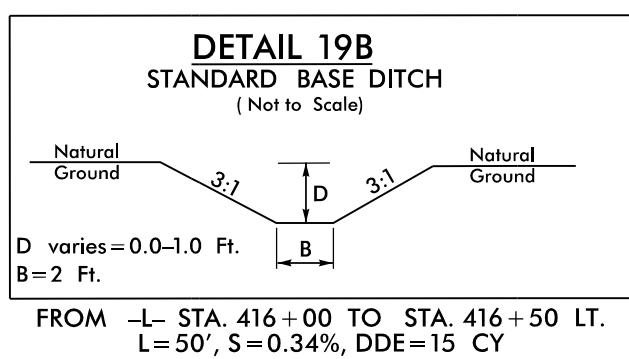
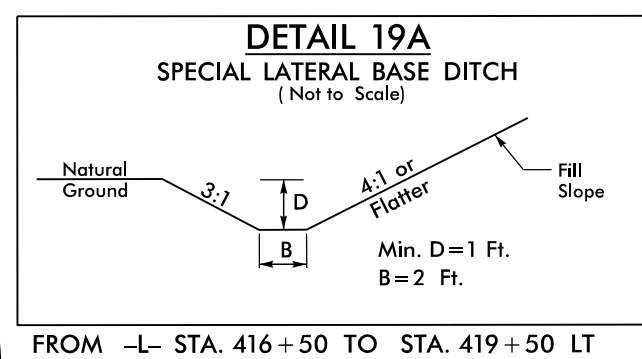


FROM -L- STA. 409+58 TO STA. 414+15 RT



LI STA. 409+53 MED.

3/6/2025
R:\Erosion Control\3300A.ec.psh.19_Final.dgn
MI ENGINEERING, RALEIGH, NC



2010 WYCLIFF ROAD
SUITE 410
RALEIGH, NC 27607
PHONE: 919.851.9729
NC CDA No. F-0629



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. R-3300A SHEET NO. EC-57/CONST.9

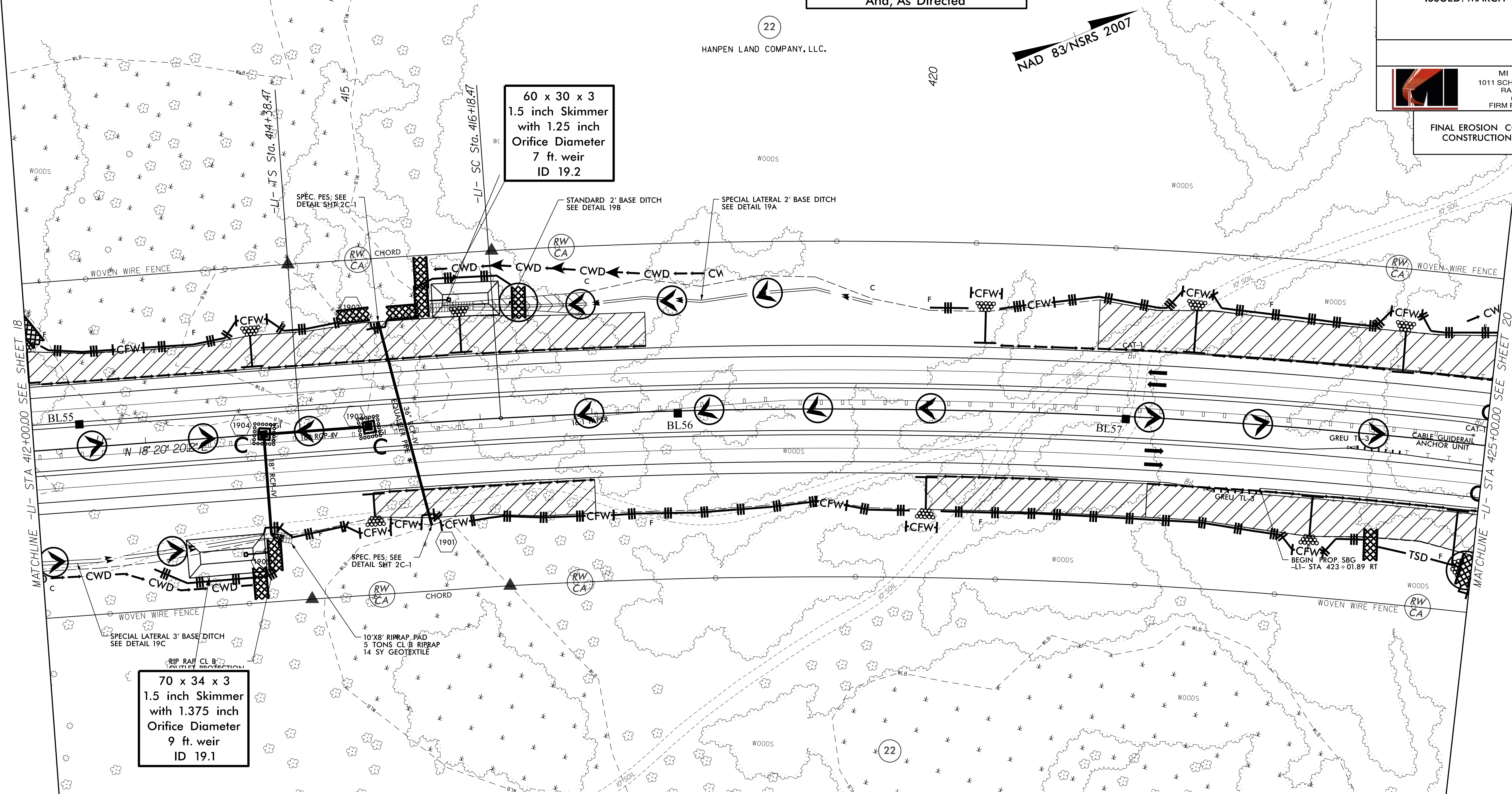
R/W SHEET NO. ROADSIDE ENVIRONMENTAL PROJECT ENGINEER

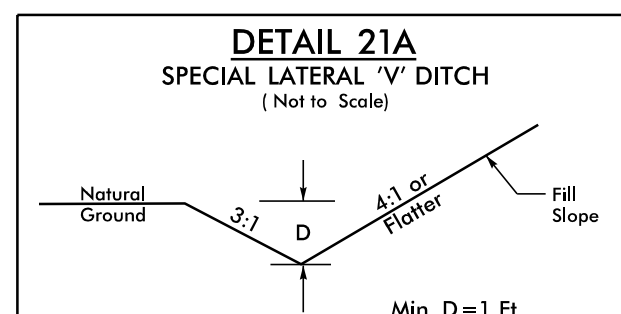
LEVEL III CERTIFIED BY:
KAREN HEFNER, PE
CERTIFICATION NUMBER: 3824
ISSUED: MARCH 6, 2025

MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6606
FIRM PE NUMBER: P-0671

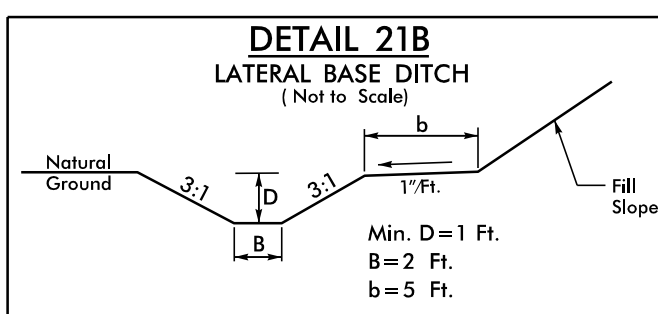
FINAL EROSION CONTROL FOR
CONSTRUCTION SHEET 19

Utilize Coir Fiber Matting Adjacent
To Wetlands/Jurisdictional Areas,
And, As Directed

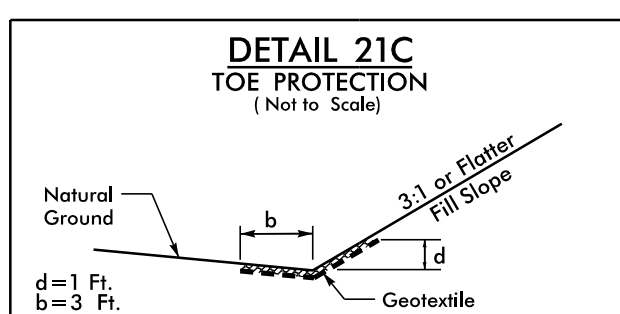




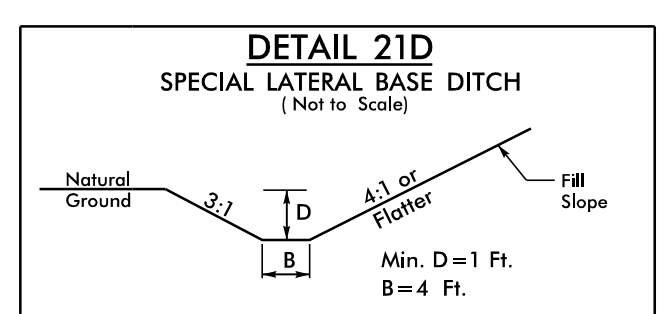
FROM -L- STA. 438+77 TO STA. 439+77 RT.
FROM -L- STA. 445+94 TO STA. 447+50 LT.
FROM -L- STA. 450+90 TO STA. 454+04 LT.
FROM -L- STA. 446+55 TO STA. 447+25 RT.



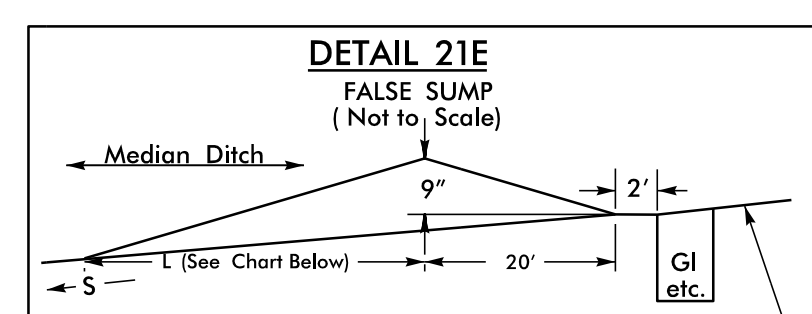
FROM -L- STA. 437+50 TO STA. 439+00 LT.



Type of Liner = CL B Rip-Rap
FROM -L- STA. 447+50 TO STA. 450+03 LT.
FROM -L- STA. 447+34 TO STA. 449+43 RT.



FROM -L- STA. 444+75 TO STA. 446+55 RT.



S=Ditch Slope
L=Length of Proposed Ditch

Dewberry

2610 WYCLIFF ROAD
SUITE 400
RALEIGH, NC 27607
PHONE: 919.851.9739
NC CDA No. F-0629

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. **R-3300A** SHEET NO. **EC-59/CONST.21**

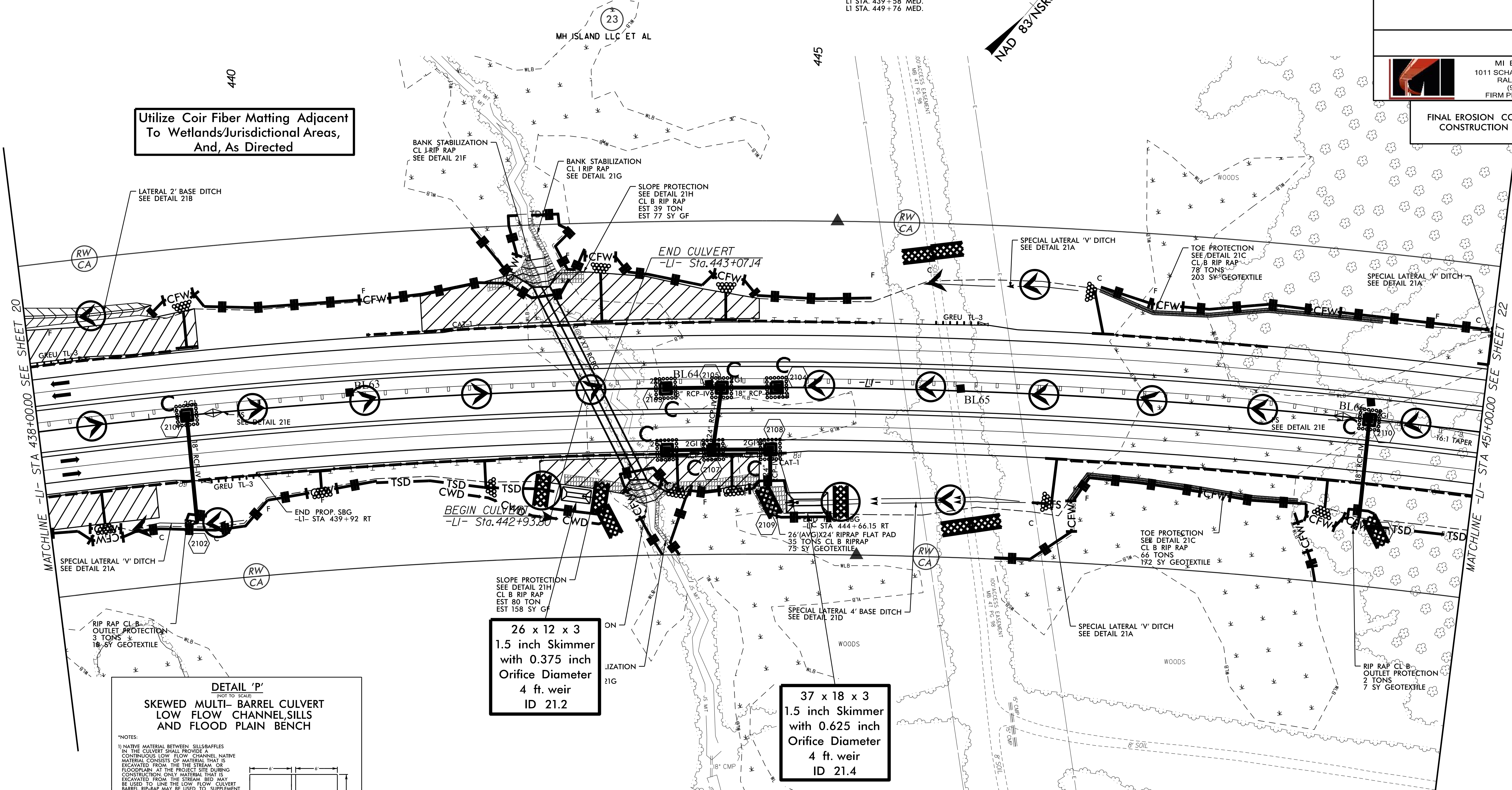
R/W SHEET NO. **ROADSIDE ENVIRONMENTAL PROJECT ENGINEER**

LEVEL III CERTIFIED BY:
KAREN HEFNER, PE
CERTIFICATION NUMBER: 3824
ISSUED: MARCH 6, 2025

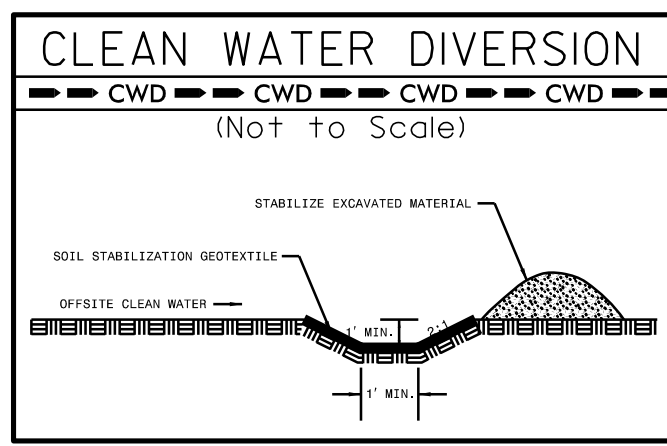
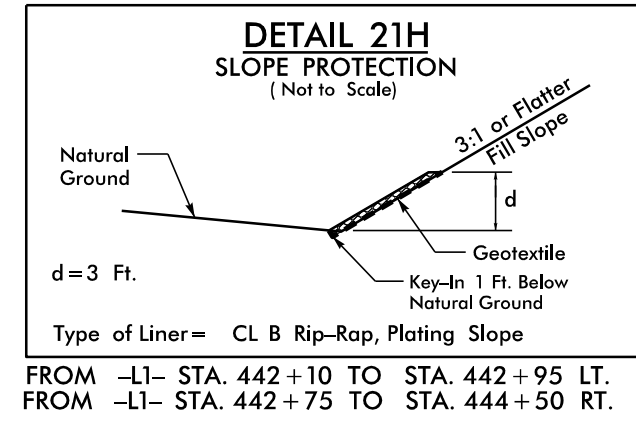
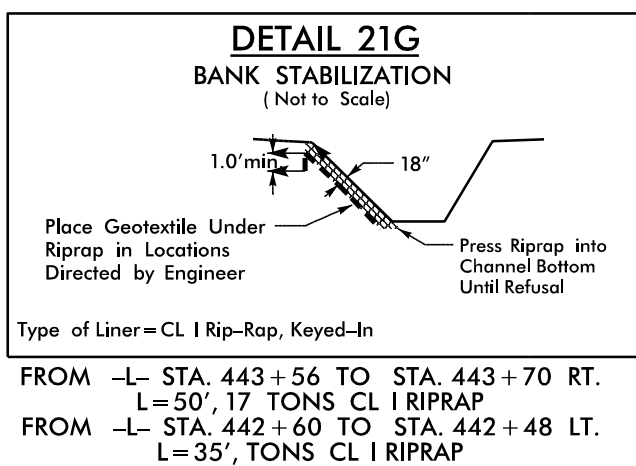
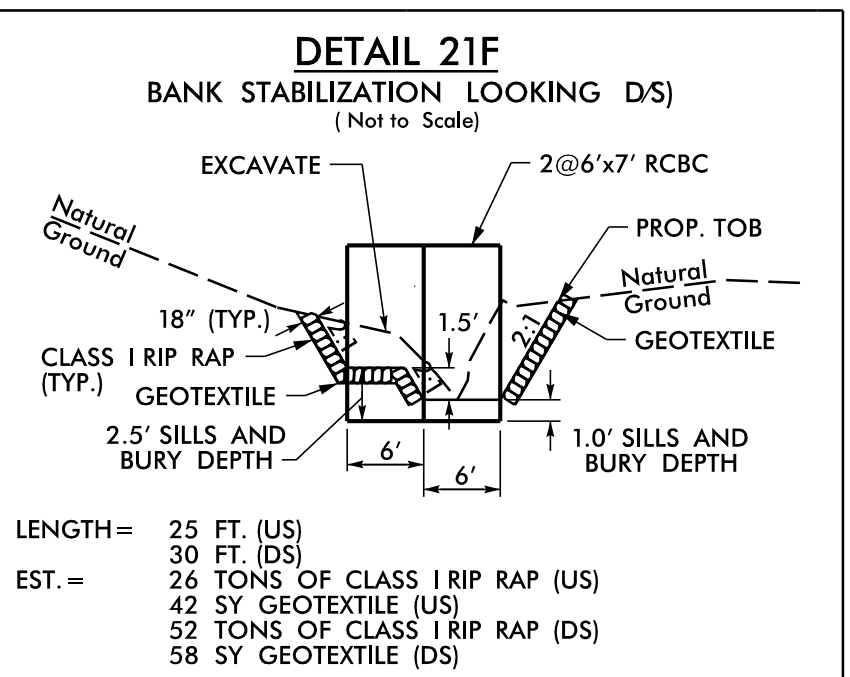
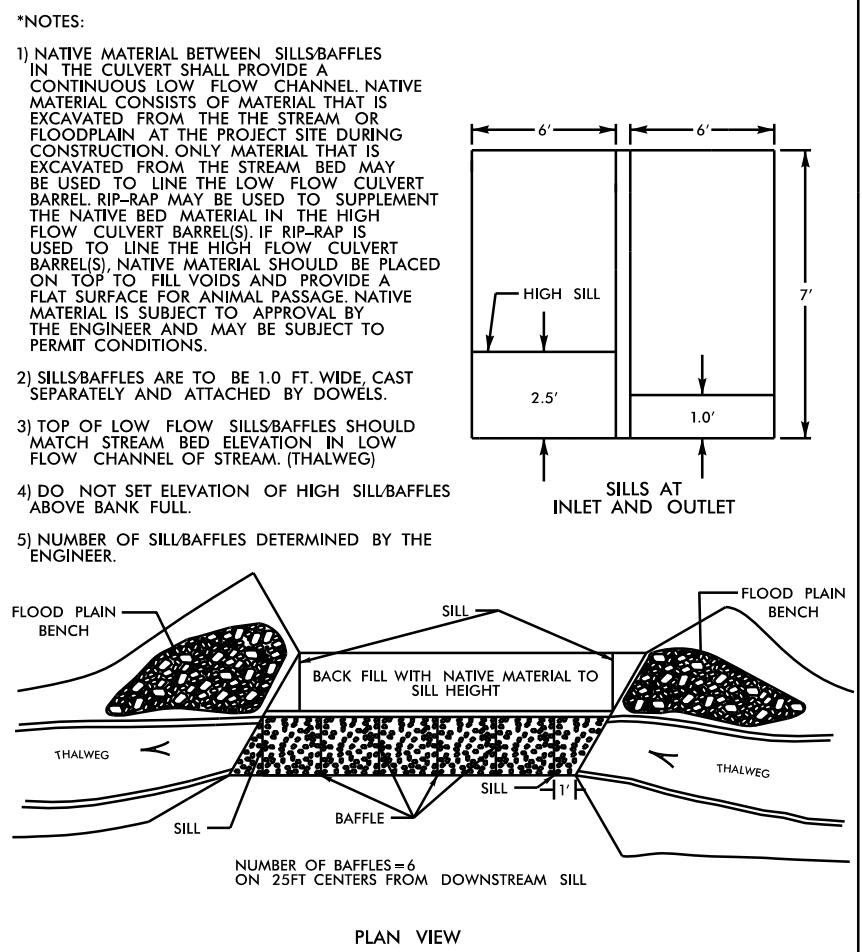
MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6606
FIRM PE NUMBER: P-0671

FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 21

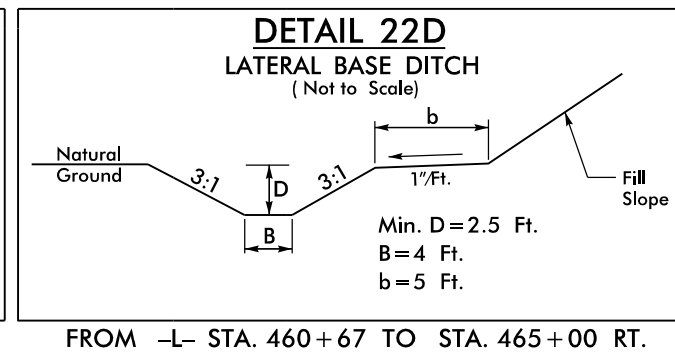
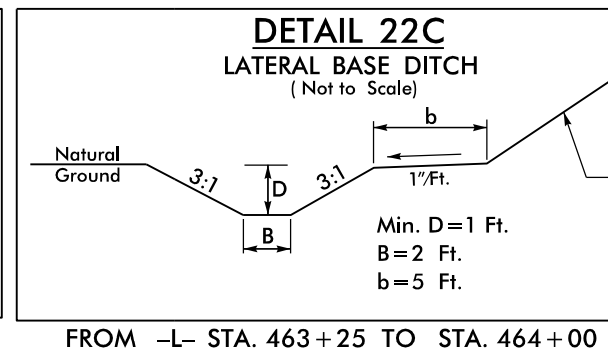
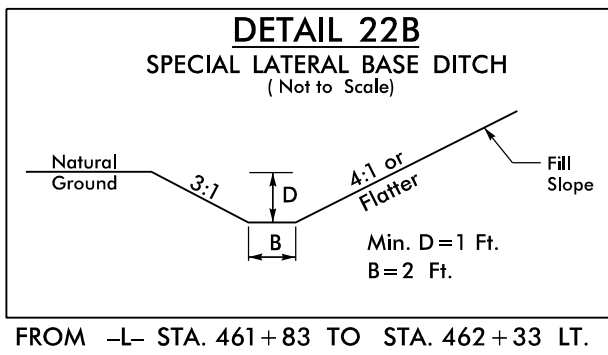
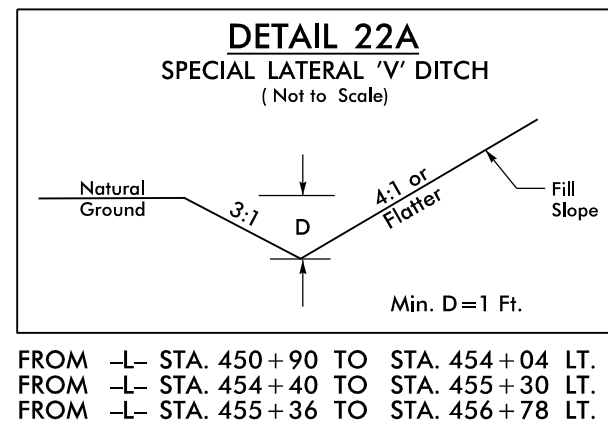
Utilize Coir Fiber Matting Adjacent To Wetlands/Jurisdictional Areas, And, As Directed



DETAIL 'P'
(NOT TO SCALE)
SKEWED MULTI-BARREL CULVERT LOW FLOW CHANNEL, SILLS AND FLOOD PLAIN BENCH



SEE SHEET 49 FOR -L1- PROFILE



Dewberry

2610 WYCLIFF ROAD
SUITE 400
RALEIGH, NC 27607
PHONE: 919.851.9729
NC CDA No. F-0629

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. **R-3300A** SHEET NO. **EC-60/CONST.22**

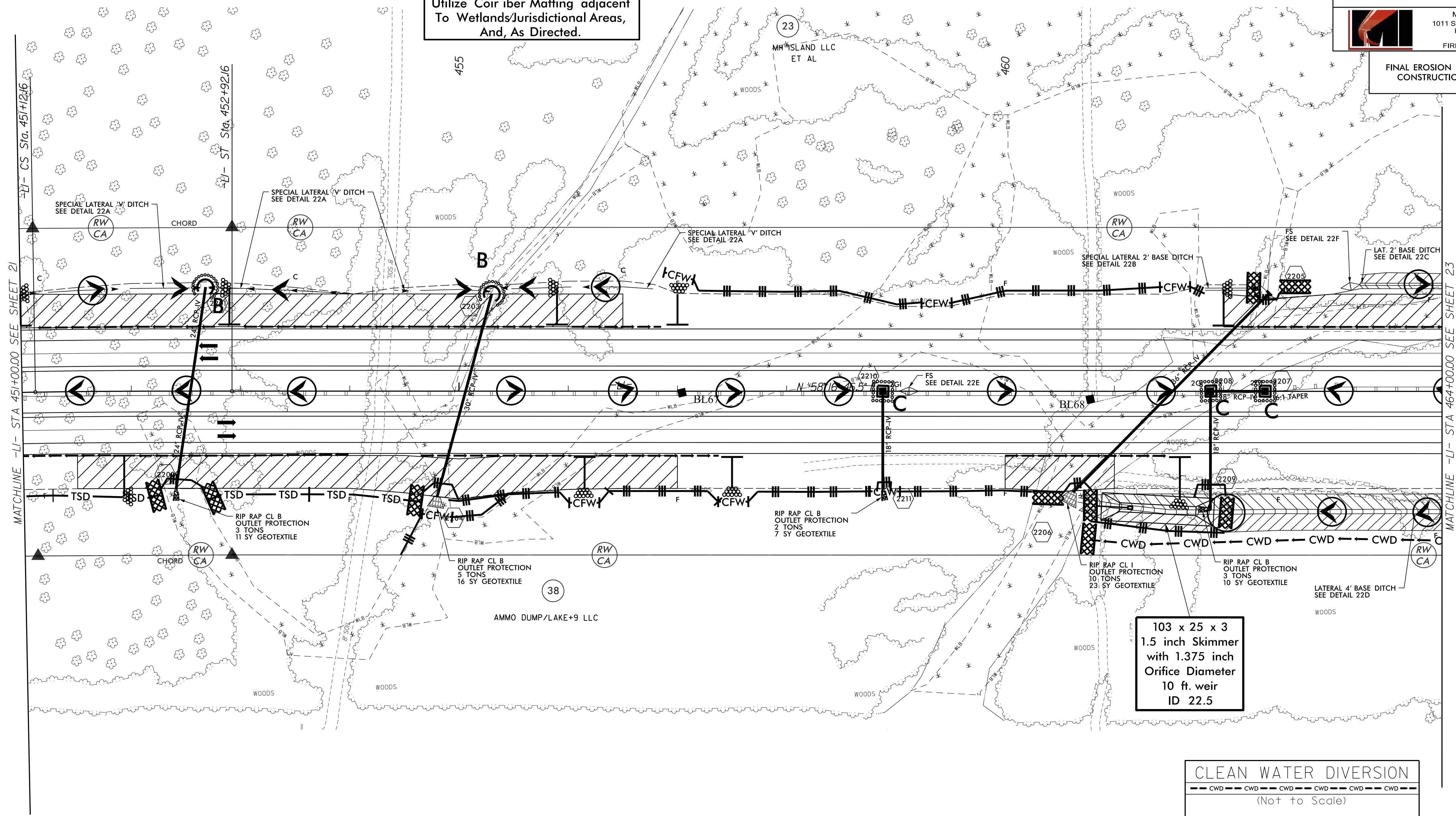
R/W SHEET NO. **ROADSIDE ENVIRONMENTAL PROJECT ENGINEER**

LEVEL III CERTIFIED BY:
KAREN HEFNER, PE
CERTIFICATION NUMBER: 3824
ISSUED: MARCH 6, 2025

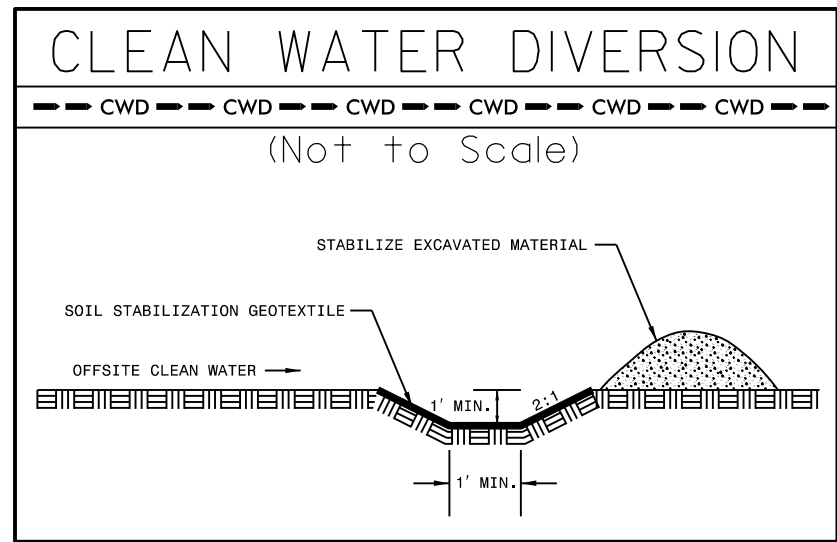
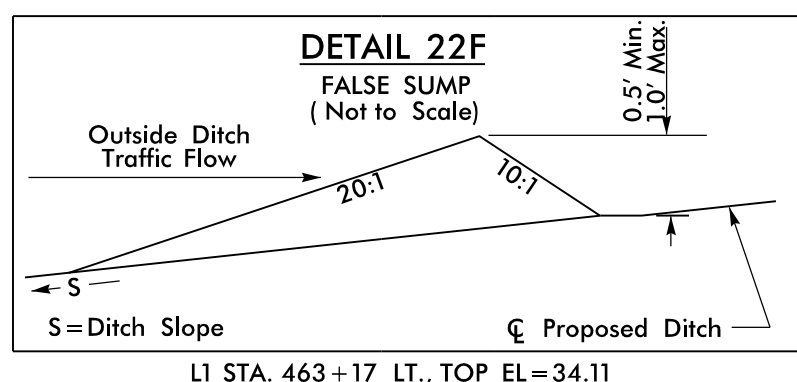
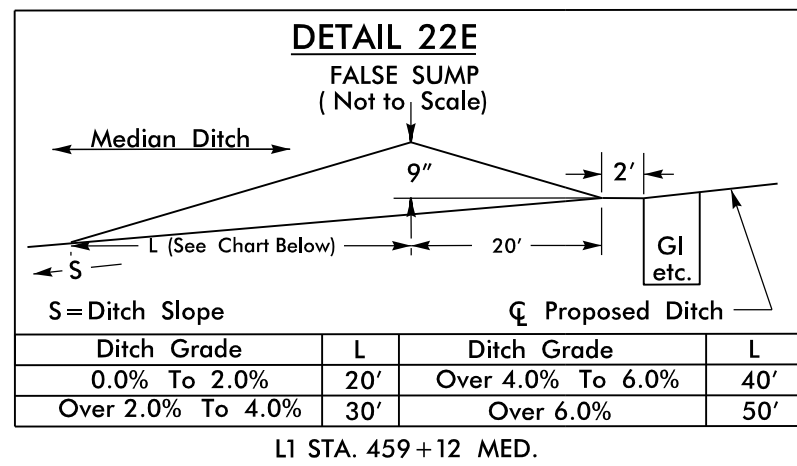
MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6606
FIRM PE NUMBER: P-0671

**FINAL EROSION CONTROL FOR
CONSTRUCTION SHEET 10**

Utilize Coir fiber Matting adjacent
To Wetlands/Jurisdictional Areas,
And, As Directed.



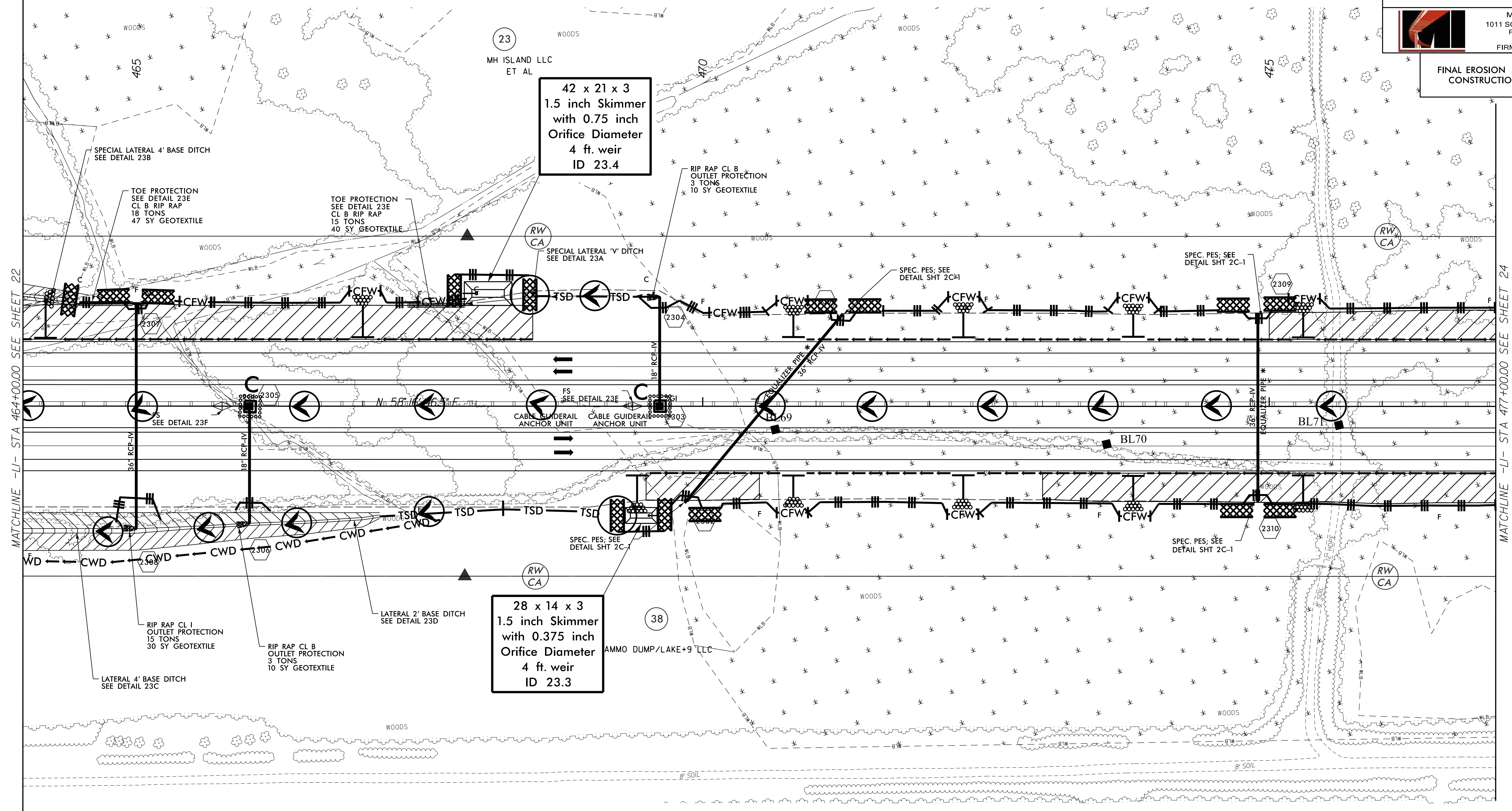
103 x 25 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
10 ft. weir
ID 22.5



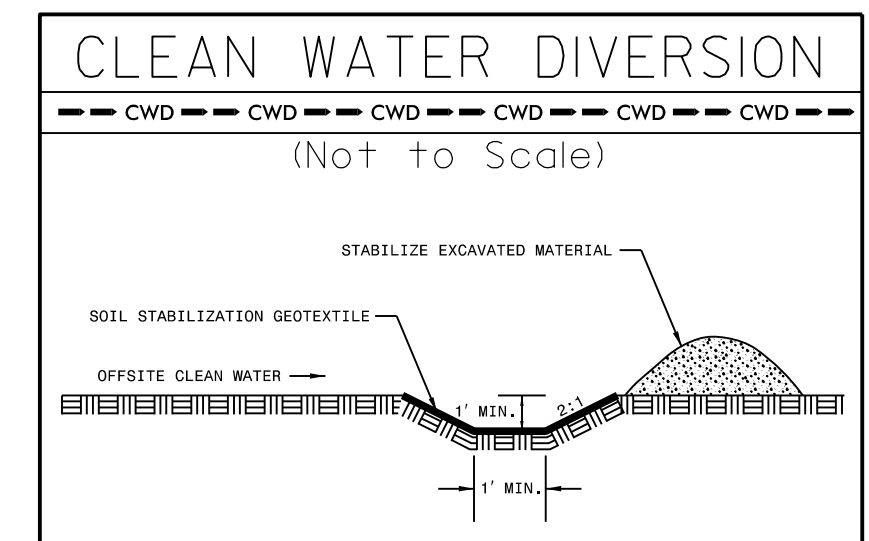
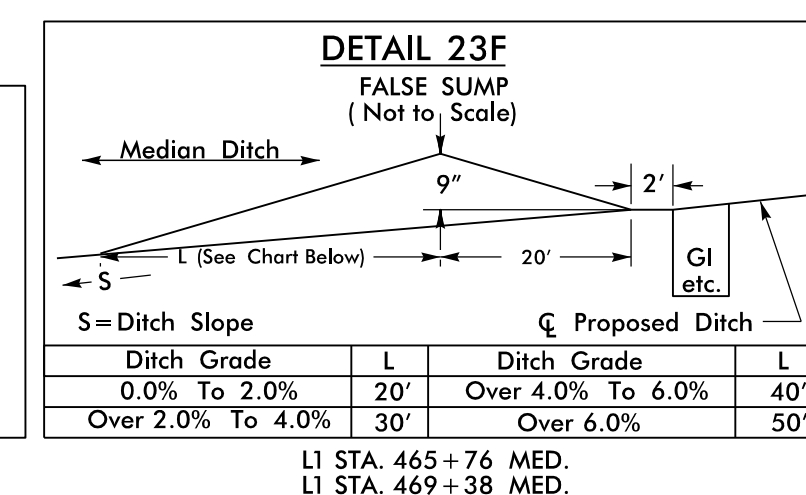
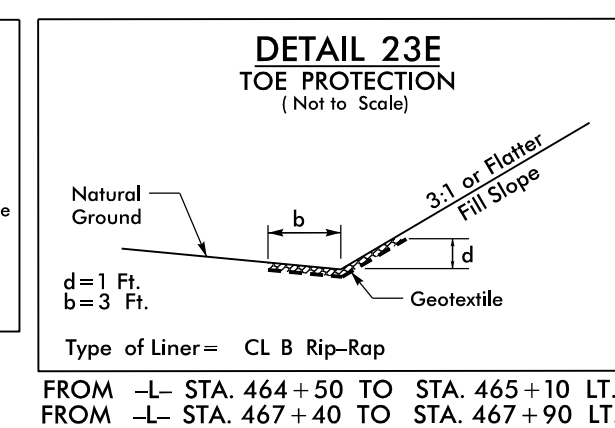
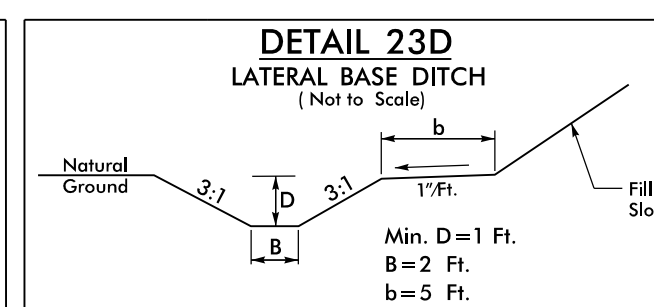
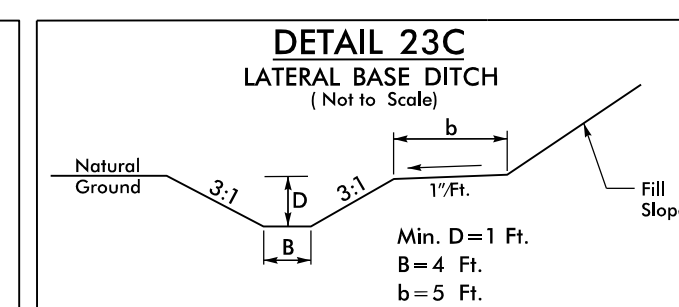
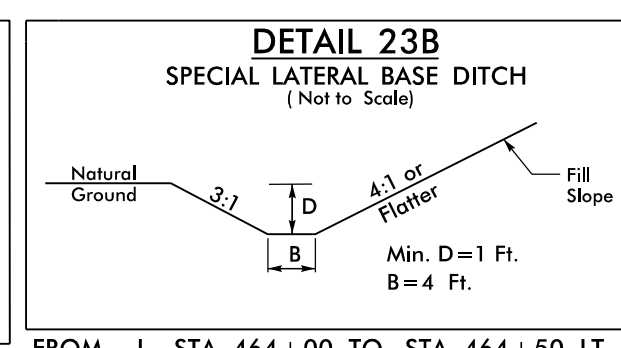
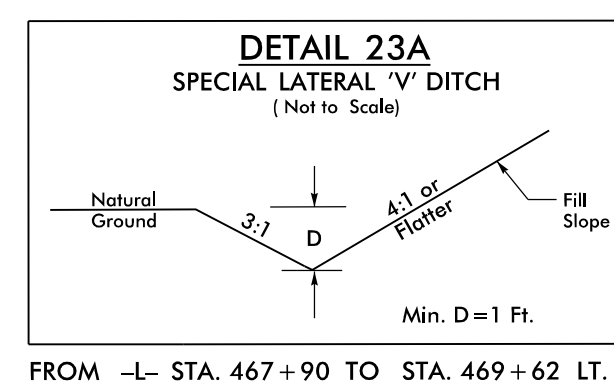
SEE SHEETS 49 & 50 FOR -L1- PROFILE

Utilize Coir Fiber Matting Adjacent
To Wetlands/Jurisdictional Areas,
And, As Directed.

NAD 83/NSRS 2007



* DO NOT BURY EQUALIZER PIPES



SEE SHEET 50 FOR -L1- PROFILE

Utilize Coir Fiber Matting Adjacent To Wetlands/Jurisdictional Areas, And, As Directed.



170' CP&L UTILITY EASEMENT
MB 47 PG 98
CP&L DRAWING = RW-D-1685 SHEET =

RIP RAP CL B
OUTLET PROTECTION
7 TONS
22 SY GEOTEXTILE

P RAP CL B
UTLET PROTECTION
TONS
SY GEOTEXTILE

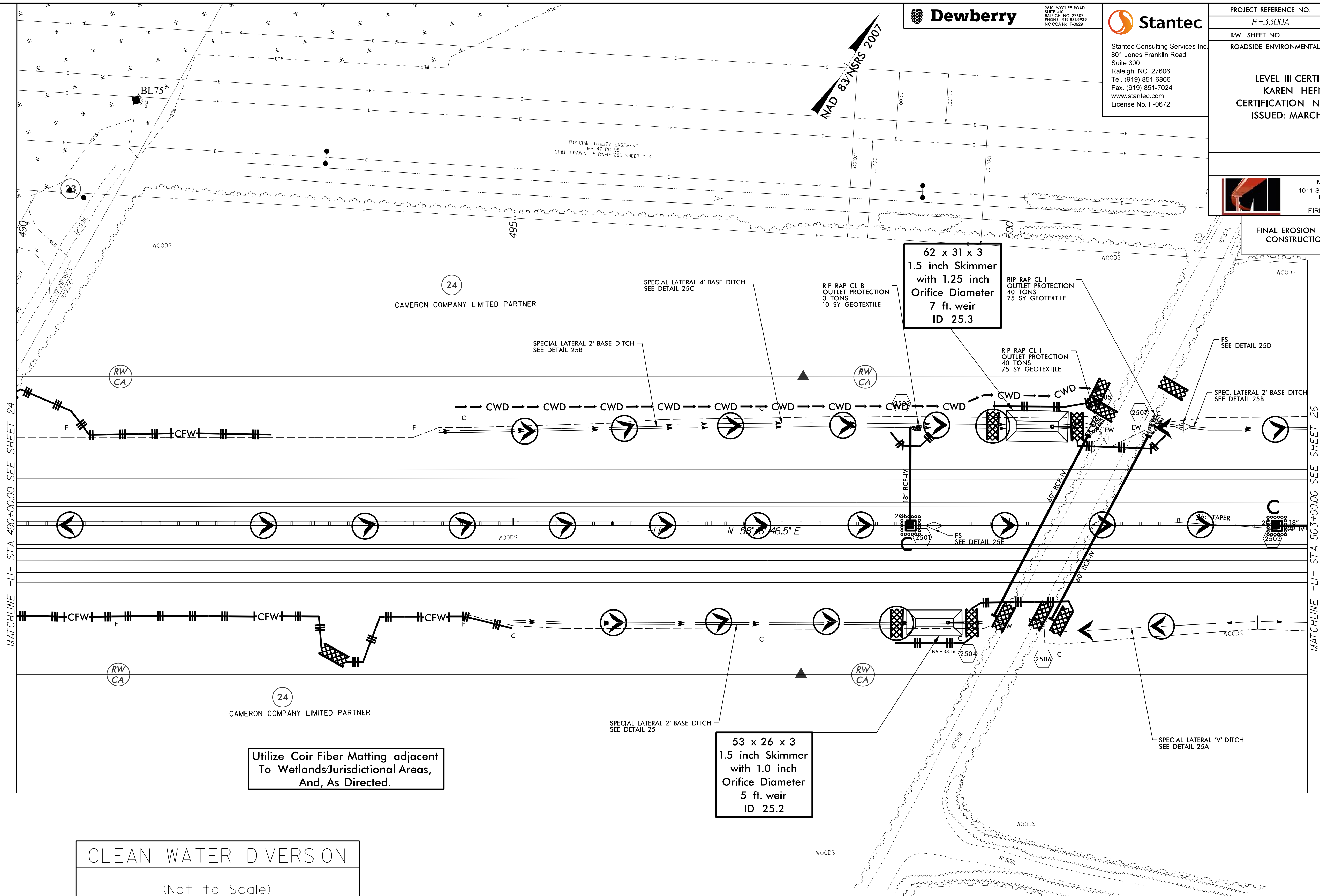
MATCHLINE -LI- STA 477+00.00 SEE SHEET 23

MATCHLINE -||- STA 490+00.00 SEE SHEET 25

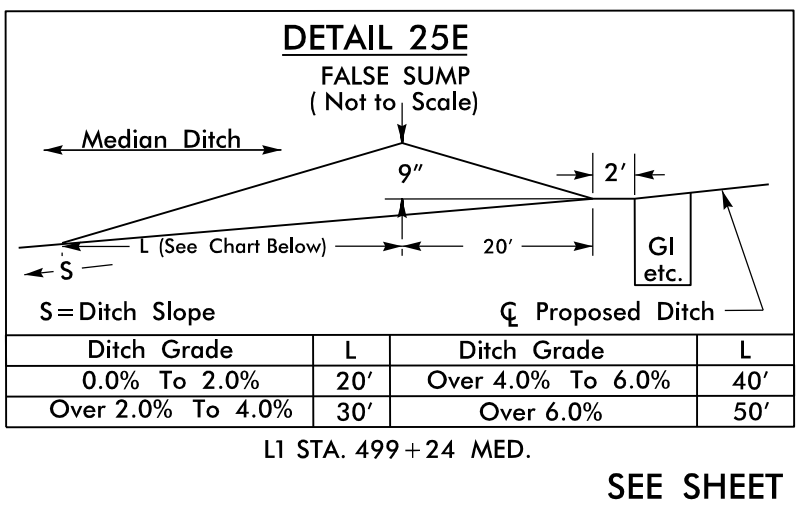
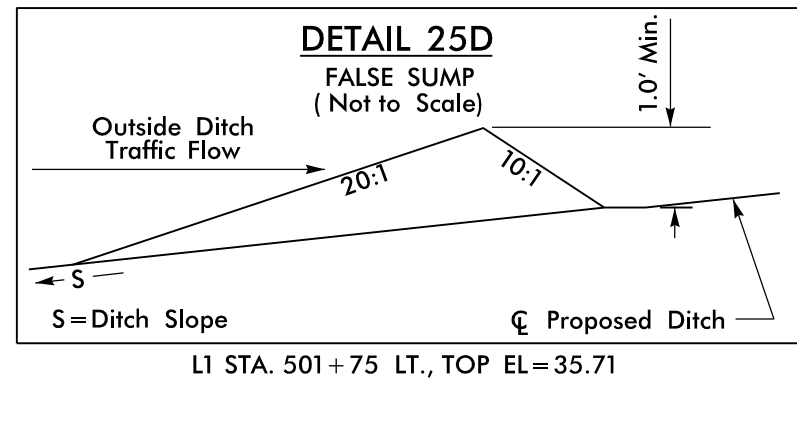
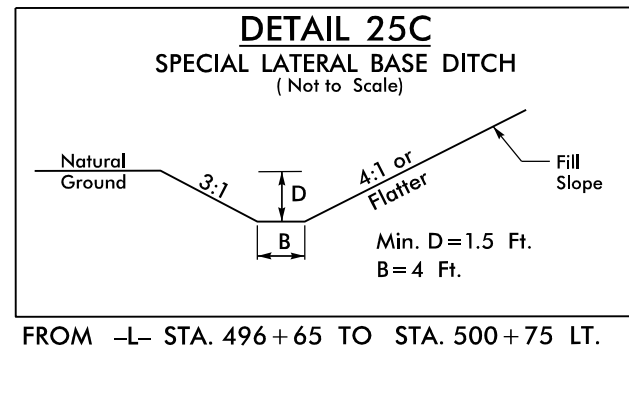
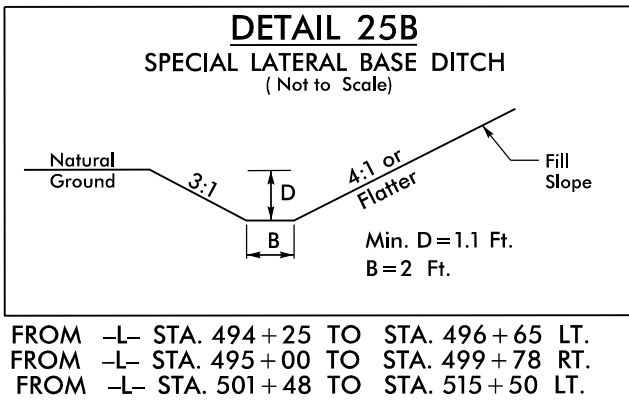
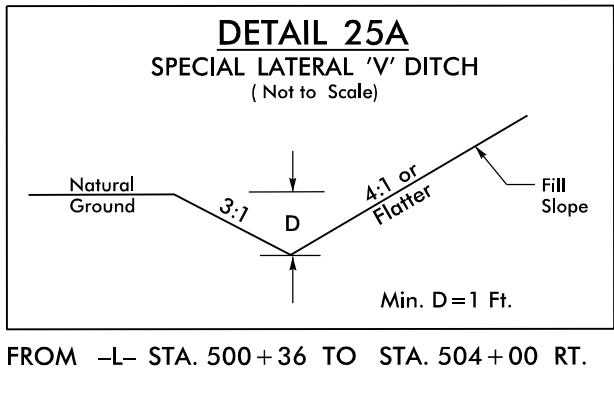
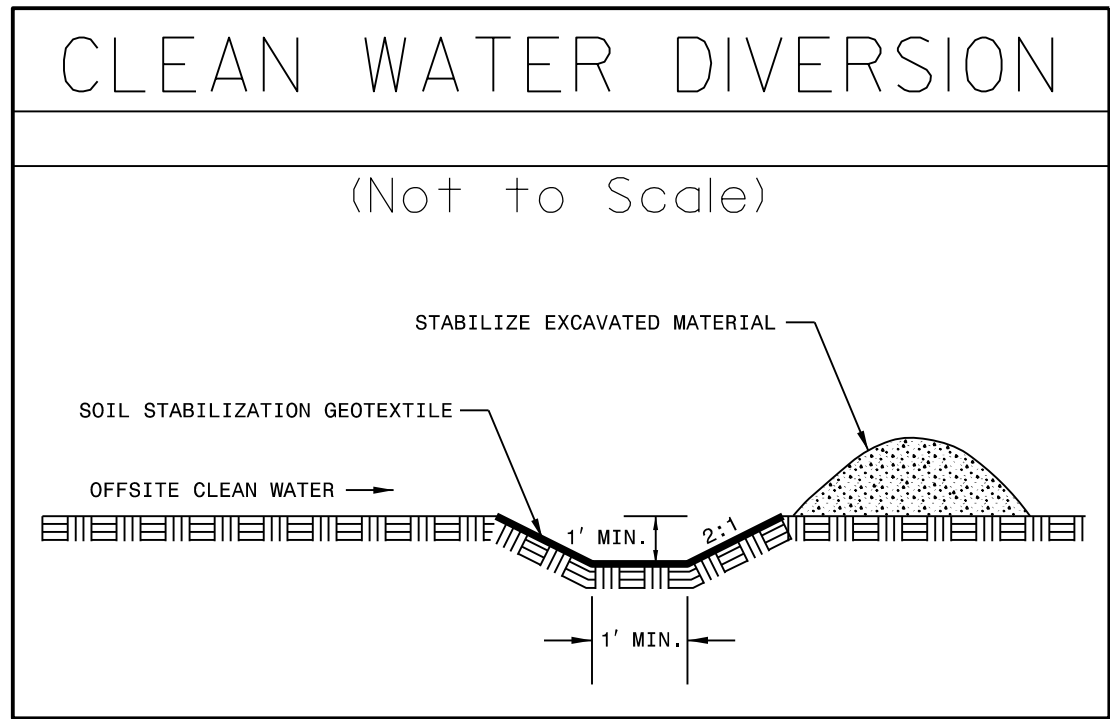
* DO NOT BURY EQUALIZER PIPES

SEE SHEETS 50 & 51 FOR -L1- PROFILE

3/6/2025
R:\Erosion Control\CAD\VR3300A_ec_psh_25_Final.dgn
MI ENGINEERING, RALEIGH, NC



Utilize Coir Fiber Matting adjacent
To Wetlands/Jurisdictional Areas,
And, As Directed.



SEE SHEET 51 FOR -L1- PROFILE

Dewberry

2610 WYCLIFF ROAD
SUITE 400
RALEIGH, NC 27607
PHONE: 919.881.9729
NC CDA No. F-0629

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

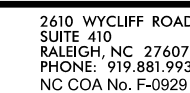
PROJECT REFERENCE NO. *R-3300A* SHEET NO. *EC-63/CONST.25*

R/W SHEET NO. ROADSIDE ENVIRONMENTAL PROJECT ENGINEER

LEVEL III CERTIFIED BY:
KAREN HEFNER, PE
CERTIFICATION NUMBER: 3824
ISSUED: MARCH 6, 2025

MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6606
FIRM PE NUMBER: P-0671

FINAL EROSION CONTROL FOR
CONSTRUCTION SHEET 25



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

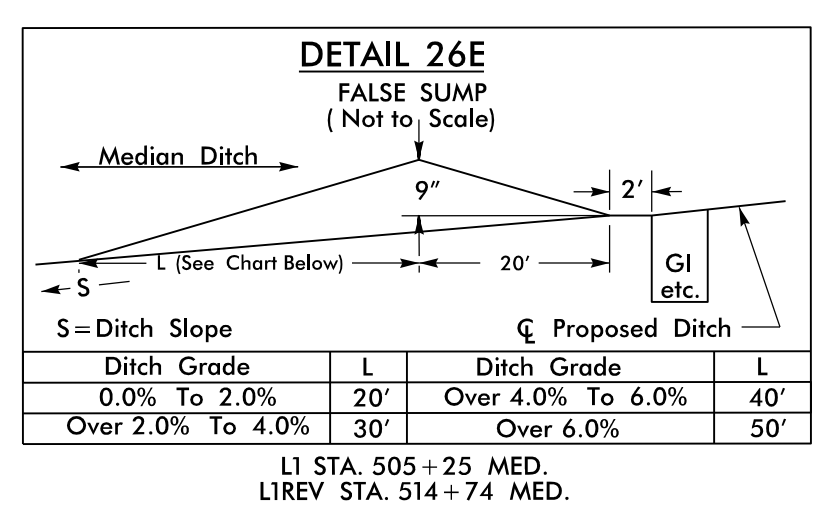
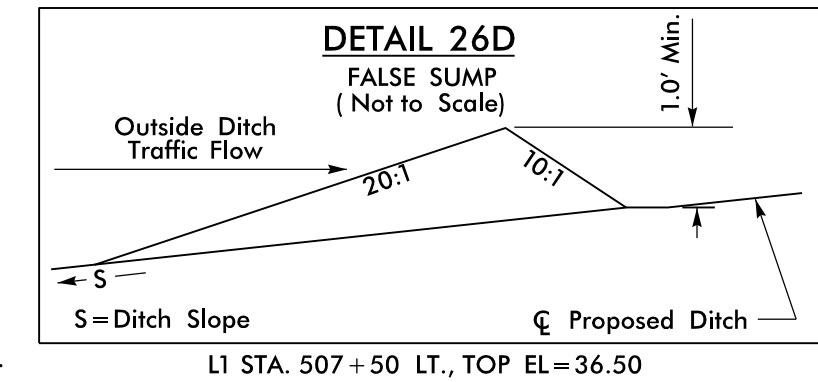
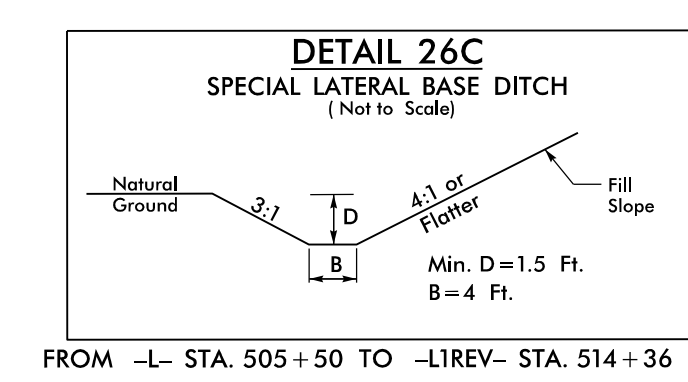
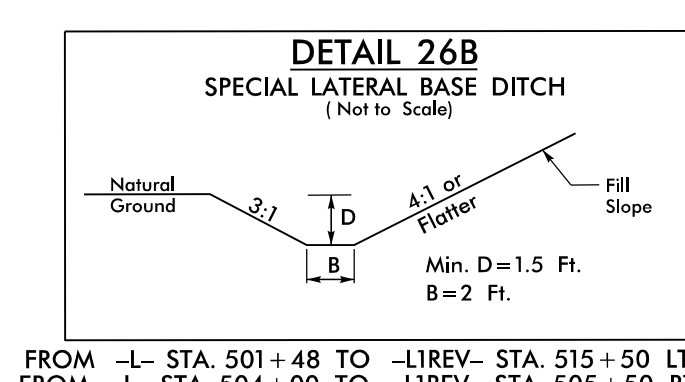
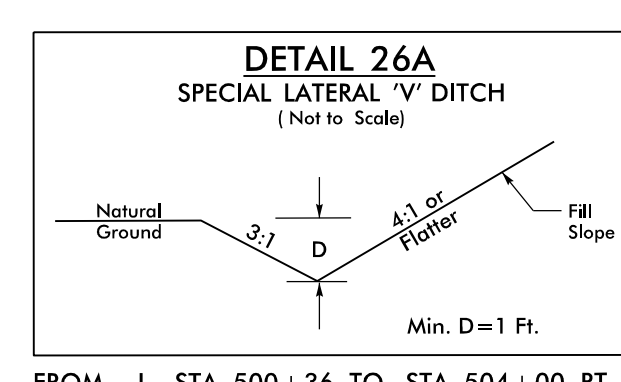
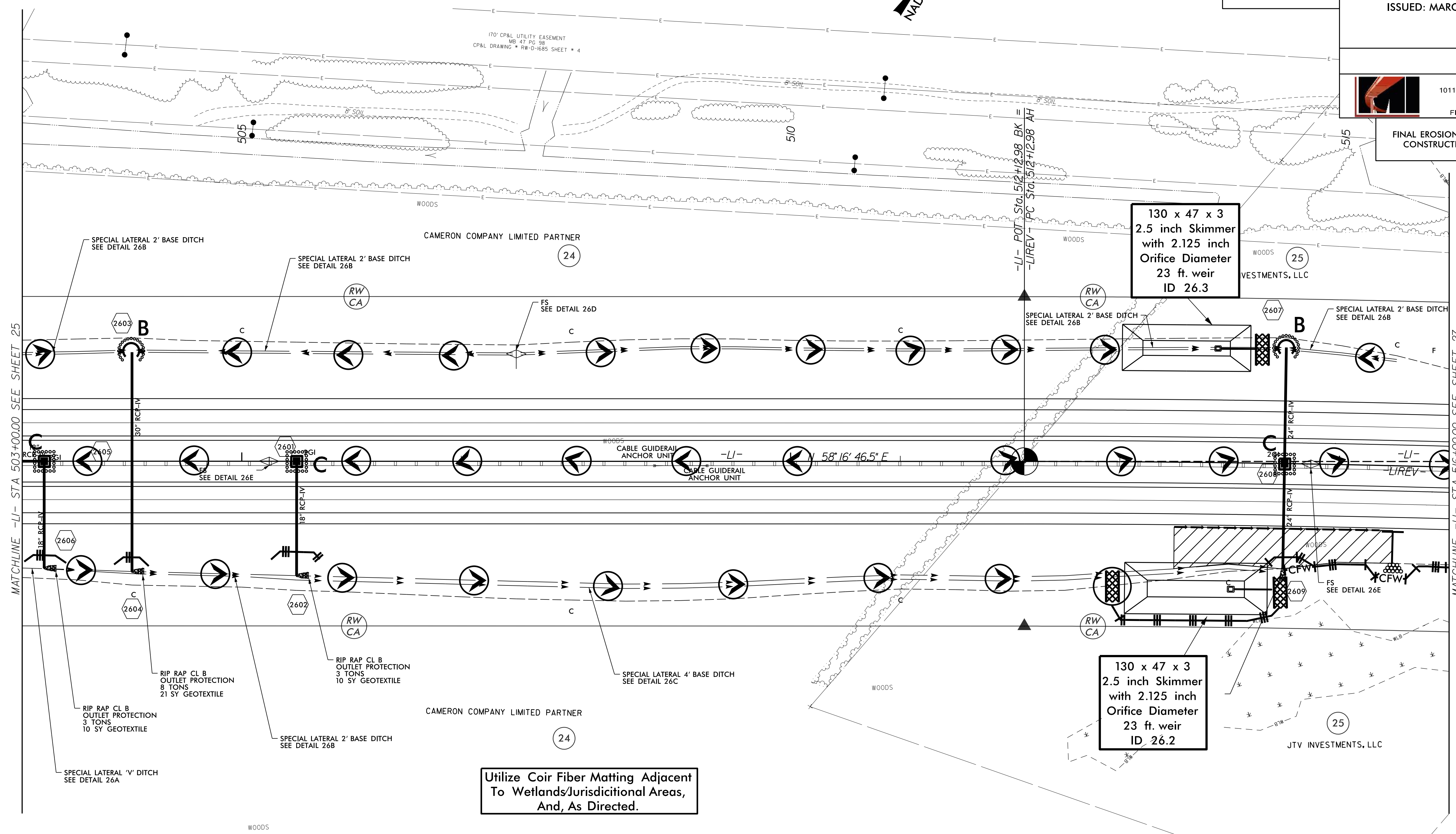
R/W SHEET NO.
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER

LEVEL III CERTIFIED BY:
KAREN HEFNER, PE
CERTIFICATION NUMBER: 3824
ISSUED: MARCH 6, 2025



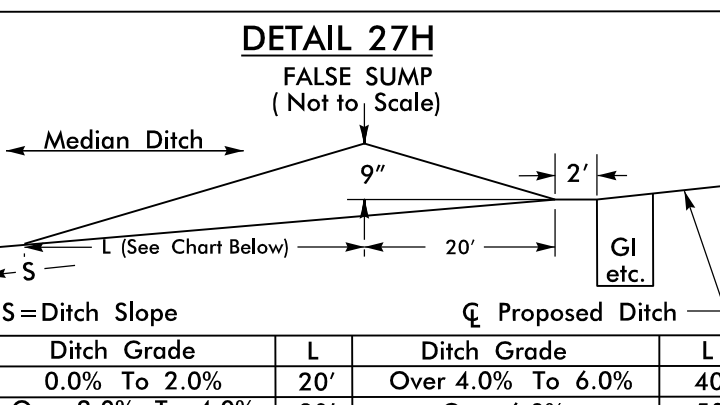
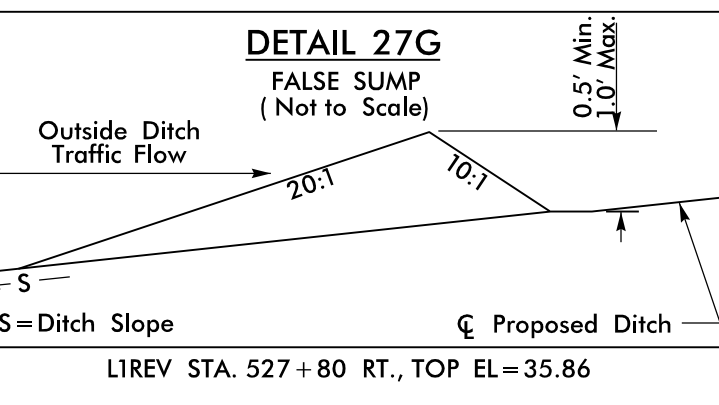
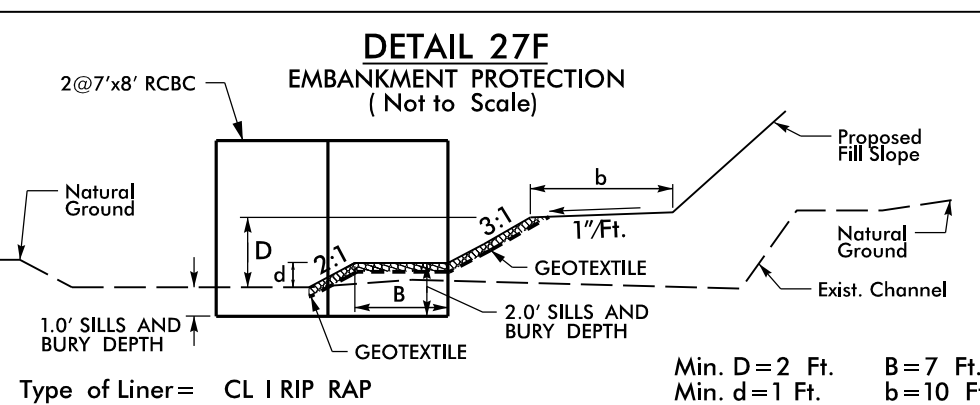
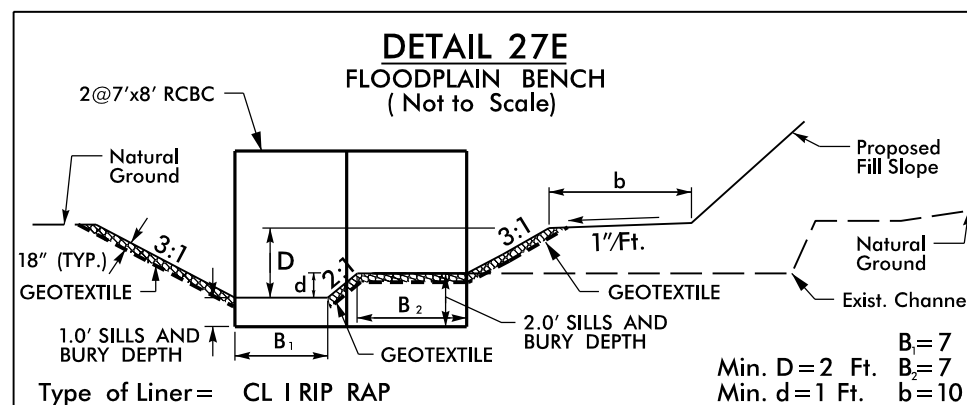
MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6606
FIRM PE NUMBER : P-0671

FINAL EROSION CONTROL FOR
CONSTRUCTION SHEET 26



SEE SHEETS 51 & 52 FOR -L1- & -L1REV- PROFILE

3/6/2025 Control\CAEDR3300A_ec.psh_26_Final.dgn
41 ENGINEERING, RALEIGH NC



FROM -LIREV- STA. 520+34 TO STA. 522+15 RT, L=203'
DDE=1125 CY, 621 TONS RIP RAP, 1100 SY GEOTEXTILE
FROM -Y35- STA. 20+80 TO STA. 22+71 LT, L=191'
DDE=430 CY, 400 TONS RIP RAP, 700 SY GEOTEXTILE

FROM -Y35- STA. 20+25 TO STA. 20+80 LT, L=55'
DDE=20 CY, 52 TONS RIP RAP, 105 SY GEOTEXTILE

Utilize Coir Fiber Matting Adjacent To Wetlands/Jurisdictional Areas, And, As Directed.

42 x 21 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
4 ft. weir
ID 27.6

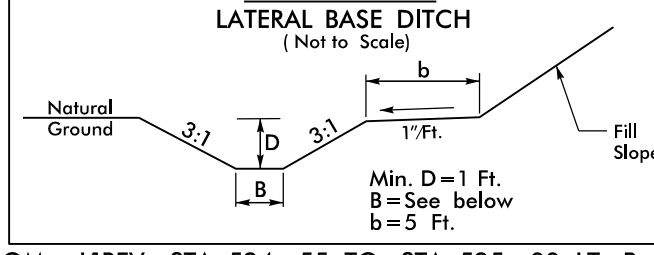
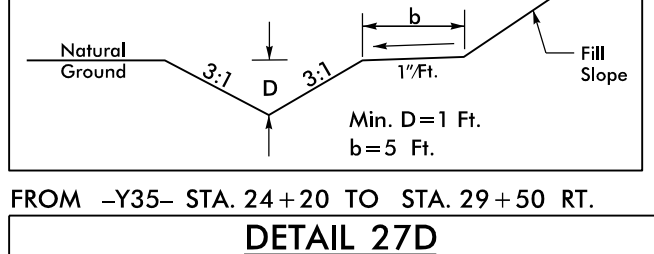
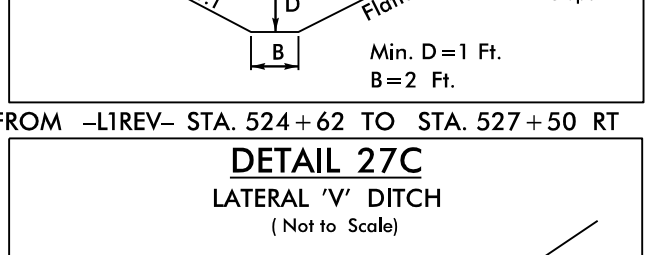
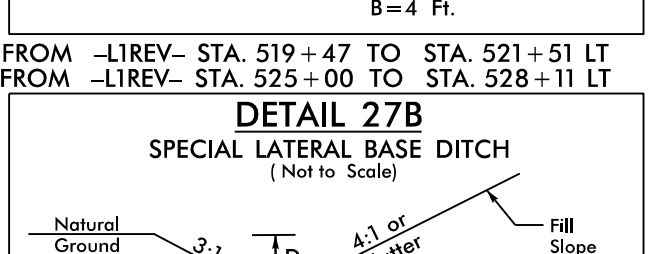
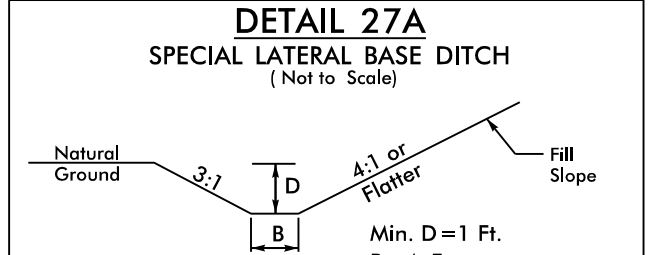
49 x 24 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
5 ft. weir
ID 27.1

52 x 26 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
5 ft. weir
ID 27.4

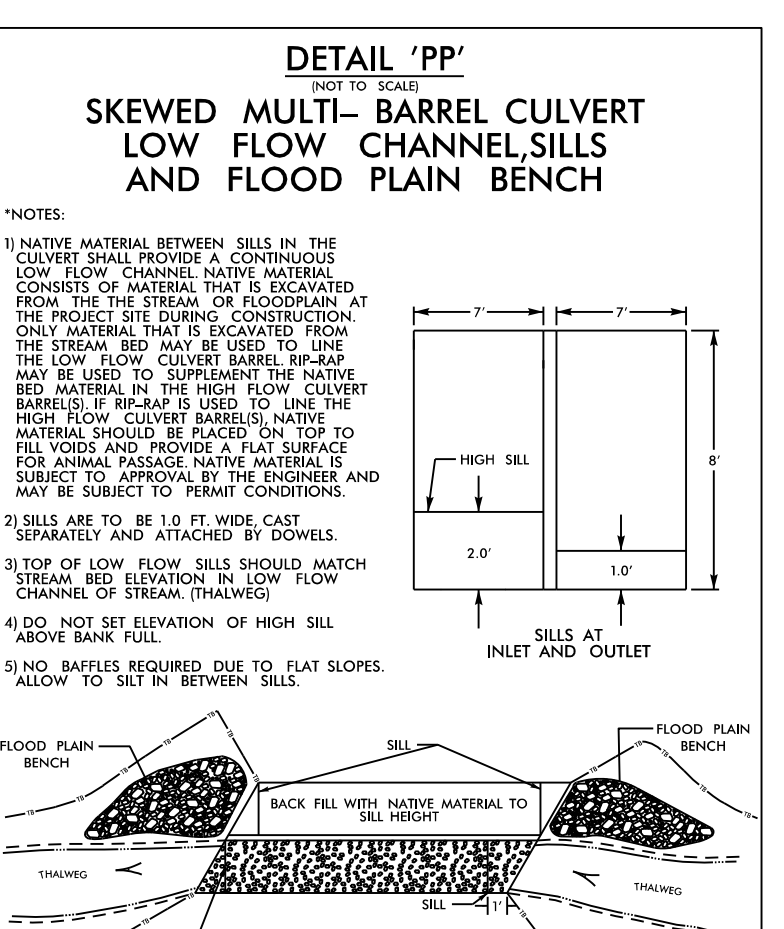
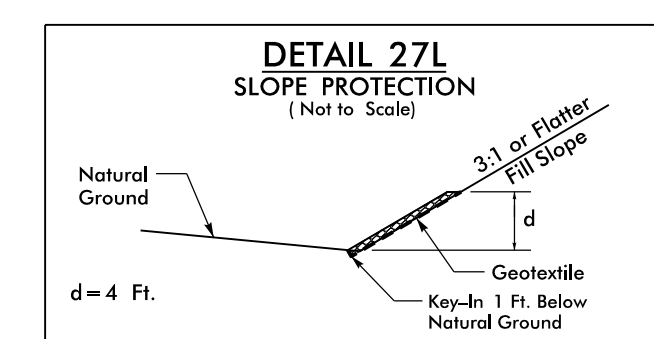
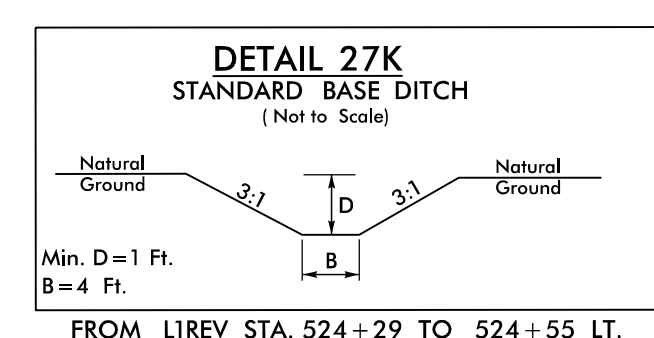
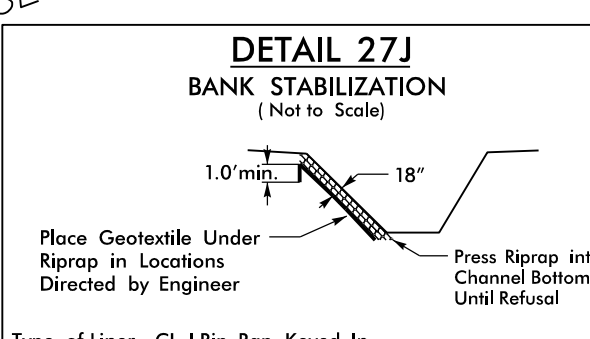
60 x 30 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
7 ft. weir
ID 27.3

62 x 25 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
6 ft. weir
ID 27.2

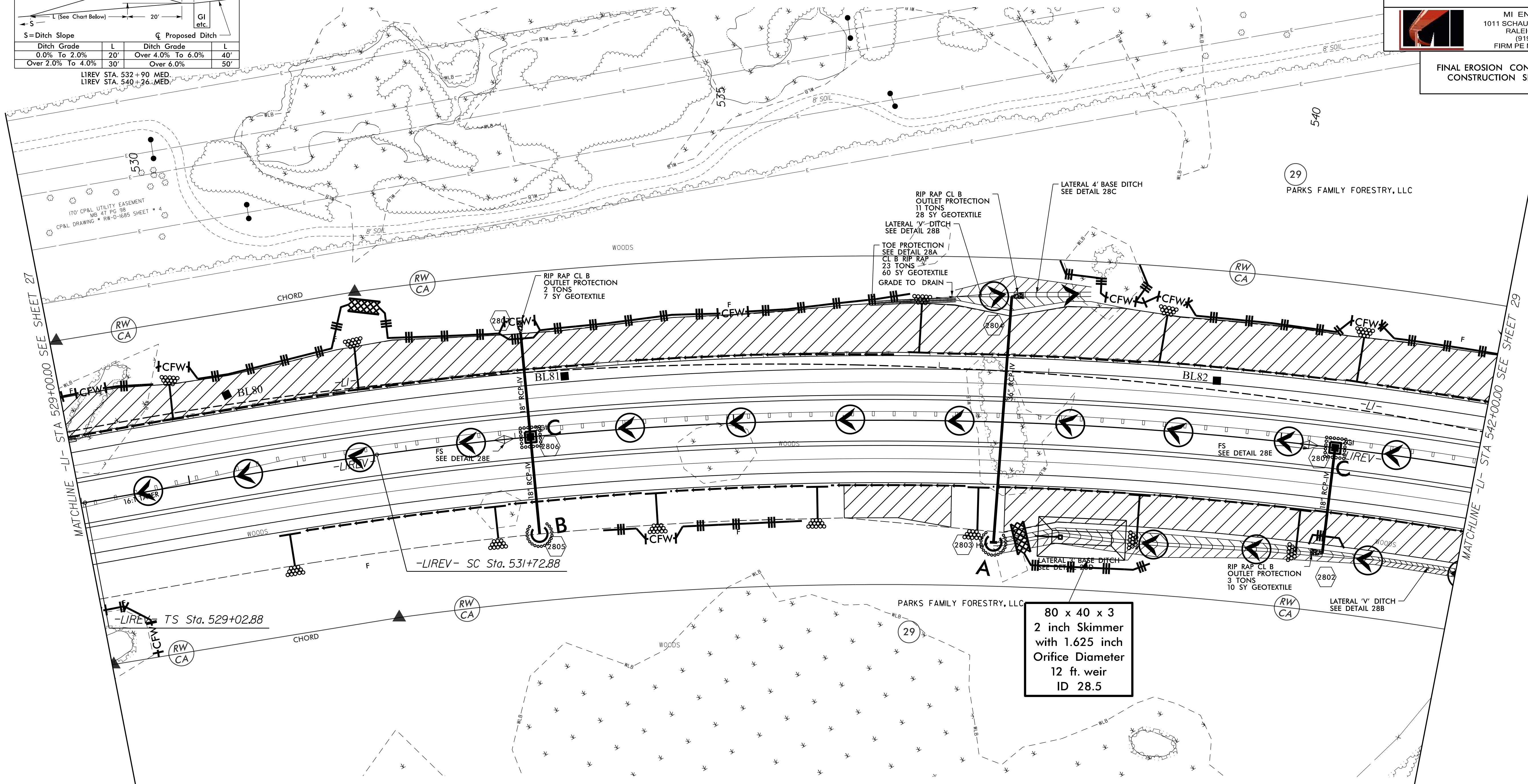
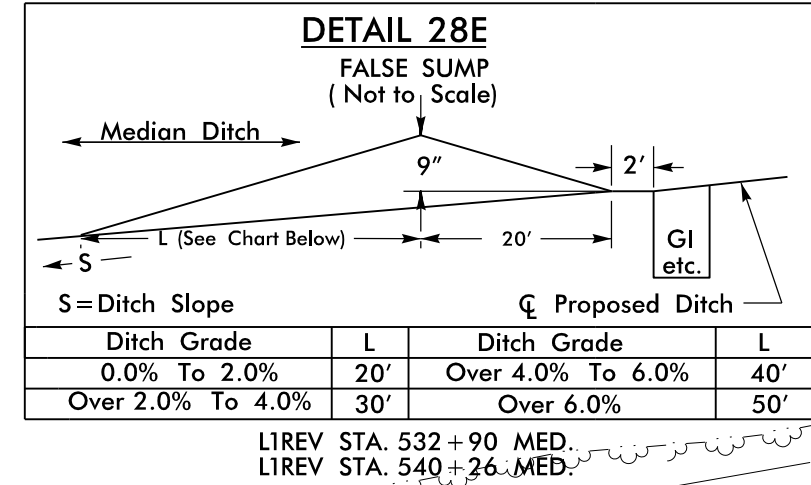
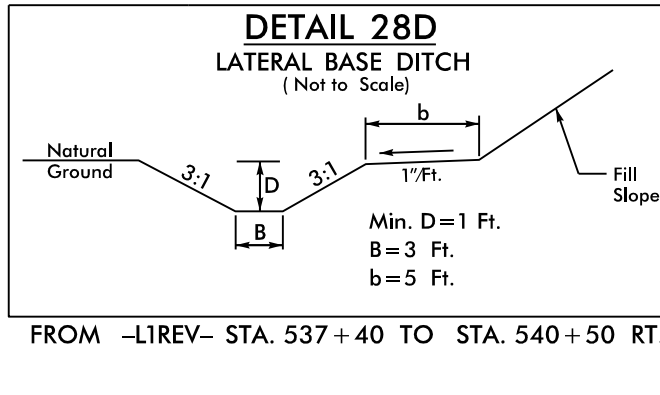
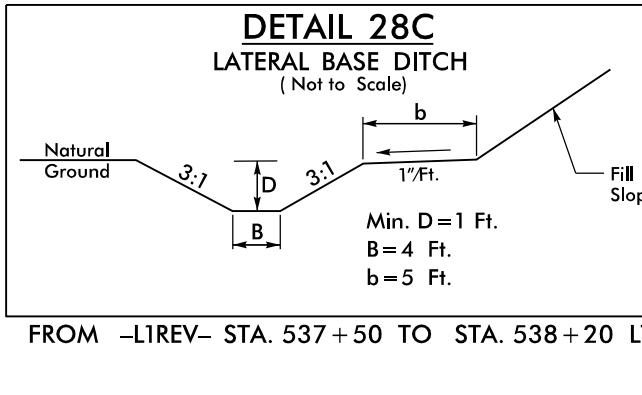
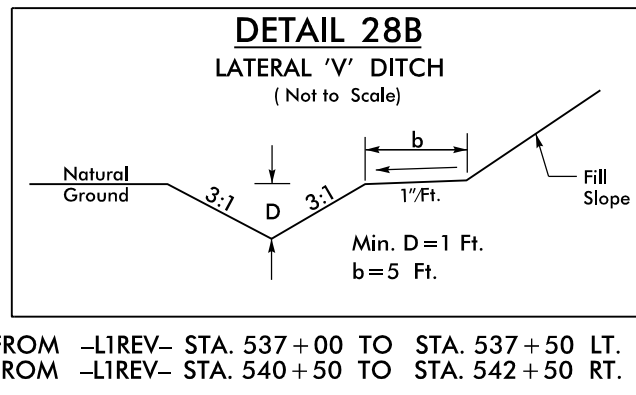
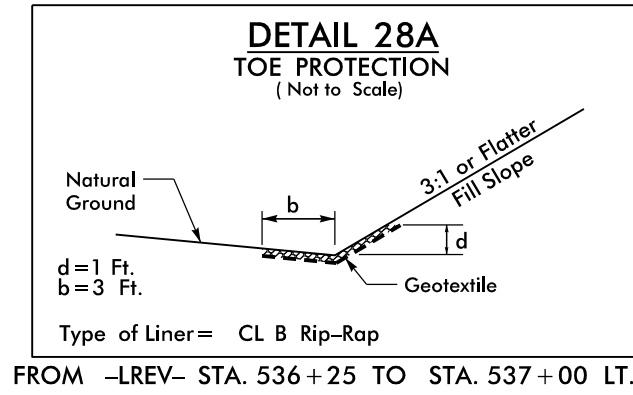
52 x 26 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
5 ft. weir
ID 27.5



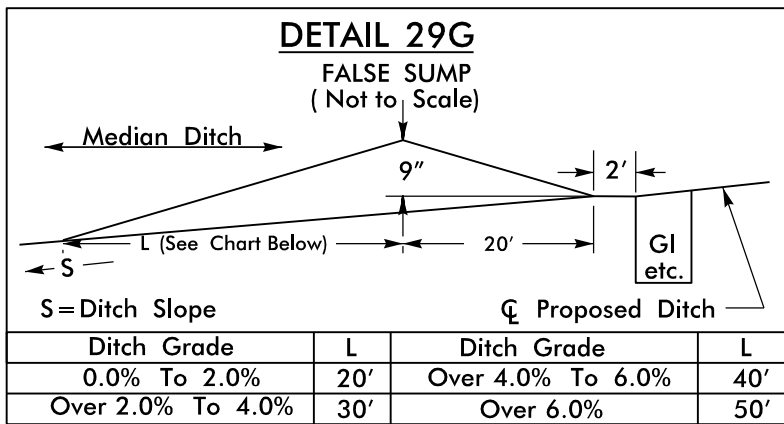
PROP. 2' x 8' RCBC NOTES:
CHANNEL IMPROVEMENTS, BANK STABILIZATION
SEE DETAIL WITH CLASS I RIP RAP
REALIGN US CHANNEL TO FLOW THRU EAST BARREL
BACKFILL NORMAL FLOW BARREL WITH 1' NATIVE MATERIAL
SEE SKEWED MULTI-BARREL CULVERT LOW FLOW CHANNEL
SILLS AND FLOOD PLAIN BENCH DETAIL 'PP'



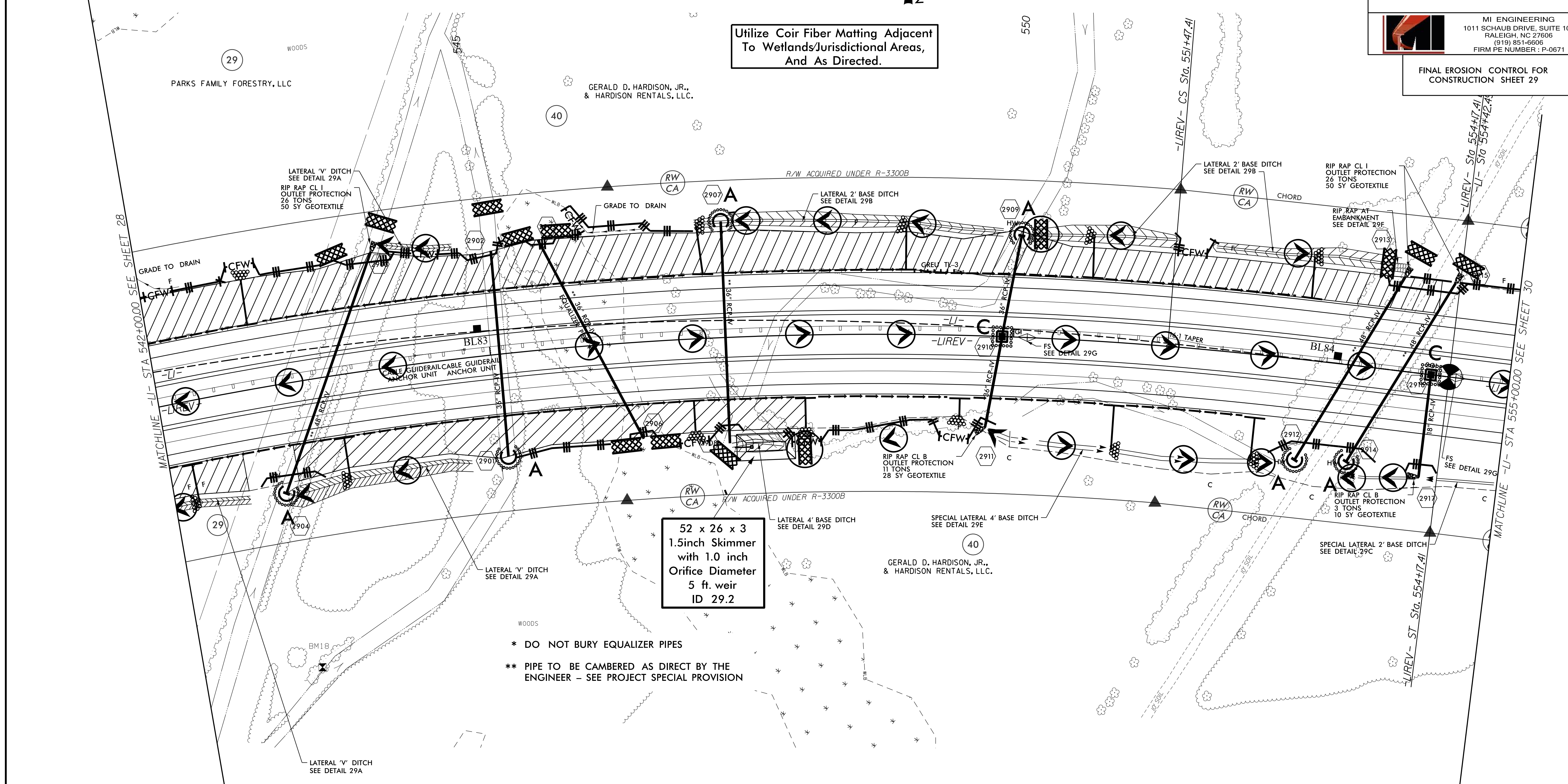
SEE SHEET 52 FOR -LIREV- PROFILE
SEE SHEET 64 FOR -Y35- PROFILE



Utilize Coir Fiber Matting Adjacent
To Wetlands/Jurisdictional Areas,
And, As Directed.

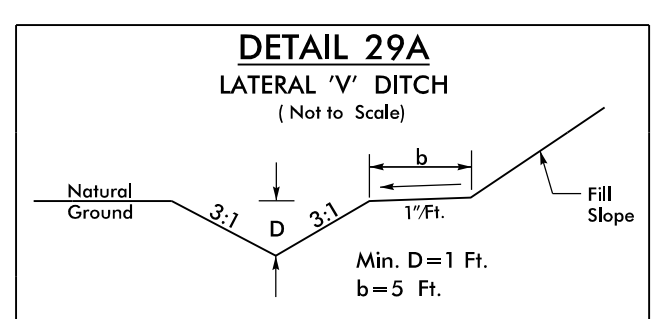


Utilize Coir Fiber Matting Adjacent To Wetlands/Jurisdictional Areas, And As Directed.

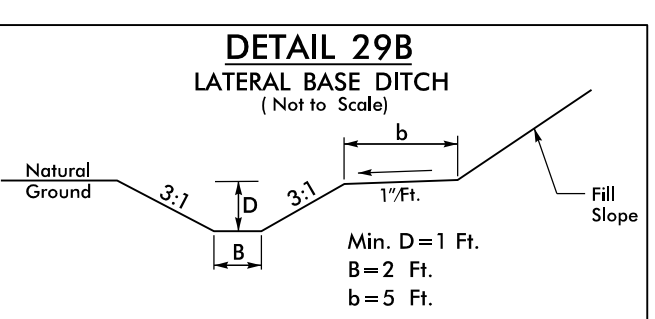


52 x 26 x 3
1.5inch Skimmer
with 1.0 inch
Orifice Diameter
5 ft. weir
ID 29.2

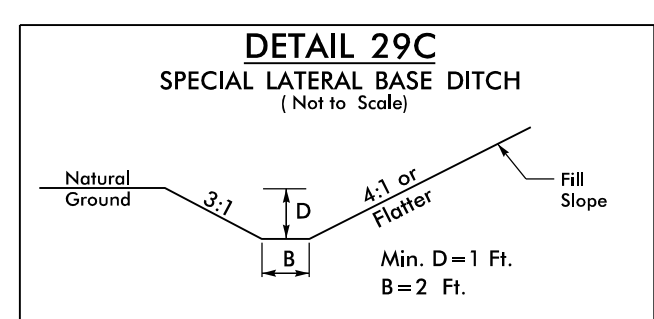
- * DO NOT BURY EQUALIZER PIPES
- ** PIPE TO BE CAMBERED AS DIRECT BY THE ENGINEER - SEE PROJECT SPECIAL PROVISION



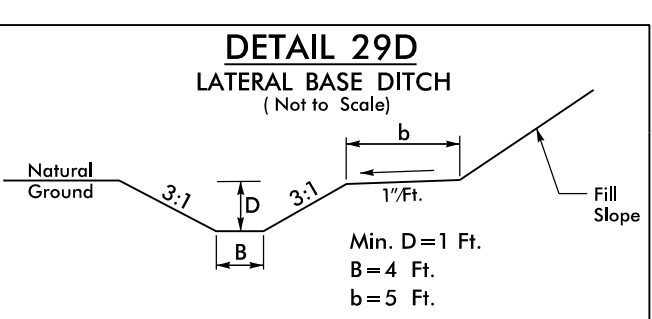
FROM -LIREV- STA. 544+08 TO STA. 544+75 LT.
FROM -LIREV- STA. 540+50 TO STA. 542+50 RT.
FROM -LIREV- STA. 542+88 TO STA. 544+71 RT.



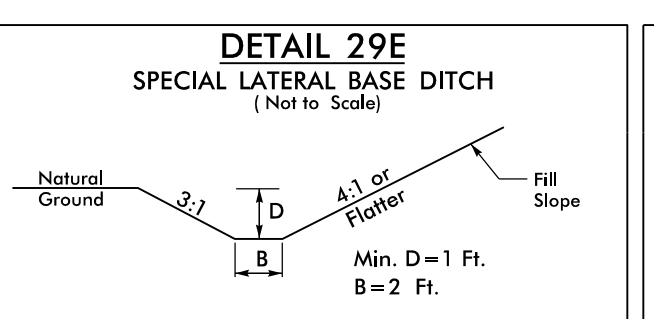
FROM -LIREV- STA. 547+00 TO STA. 549+87 LT.
FROM -LIREV- STA. 550+12 TO STA. 551+46 LT.
FROM -LIREV- STA. 551+85 TO STA. 553+62 LT.



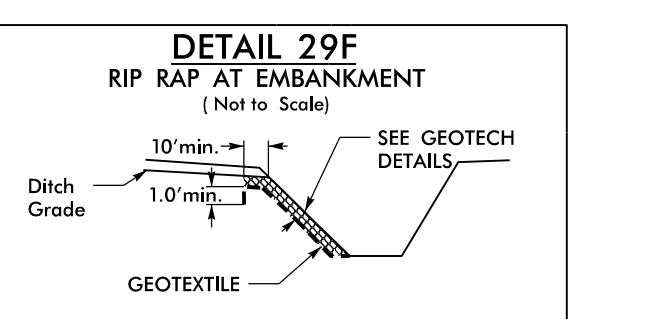
FROM -LIREV- STA. 553+32 TO -LI- STA. 555+00 RT.



FROM -LIREV- STA. 547+25 TO STA. 547+77 RT.



FROM -LIREV- STA. 549+78 TO STA. 552+50 RT.



FROM -LIREV- STA. 553+50 TO STA. 553+66 LT.

SEE SHEET 53 FOR -LI- PROFILE

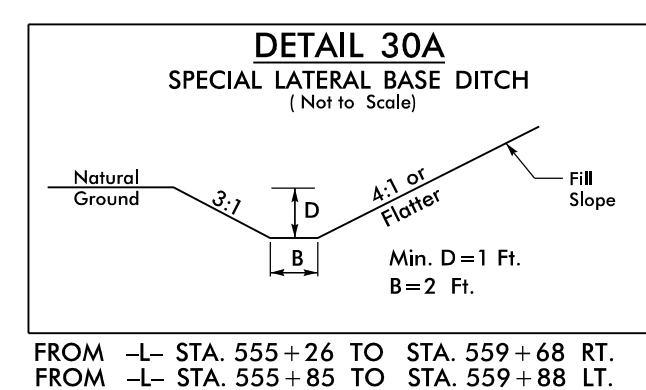
Utilize Coir Fiber Matting Adjacent
To Wetlands/Jurisdictional Areas
And As Directed.

32 x 15 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
4 ft. weir
ID 30.3

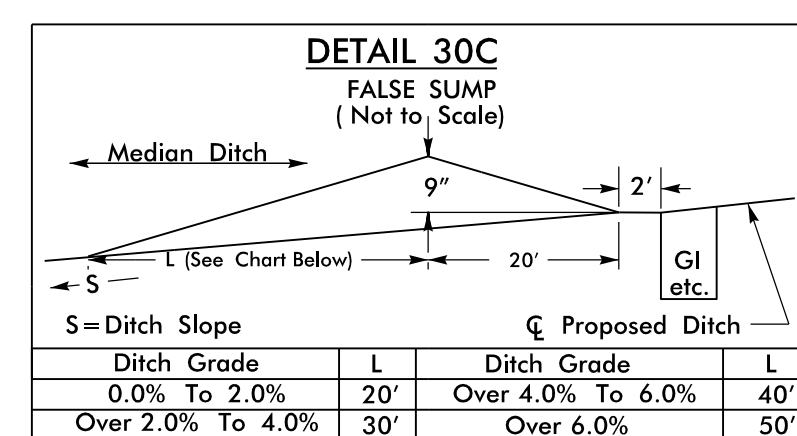
44 x 22 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
4 ft. weir
ID 30.4

56 x 28 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
6 ft. weir
ID 30.1

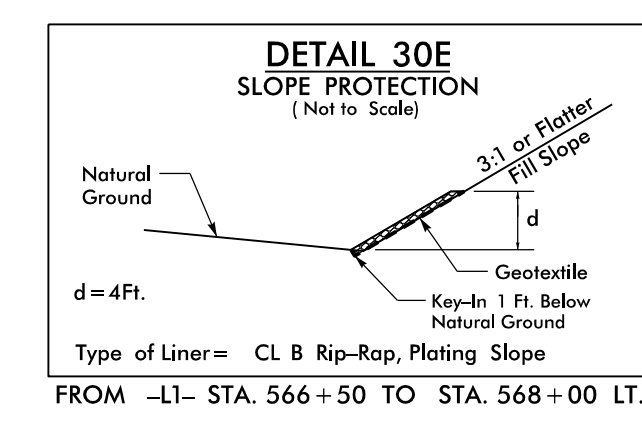
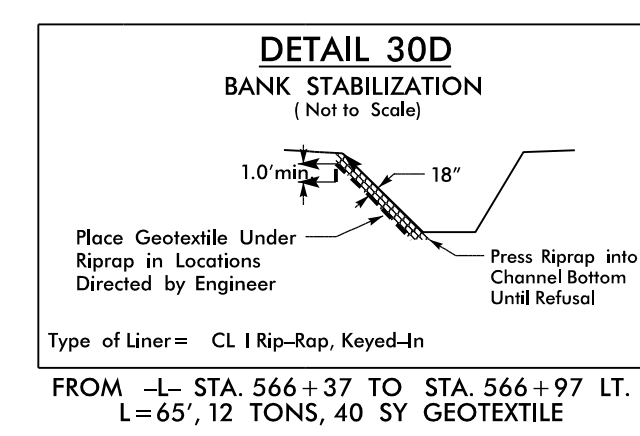
* DO NOT BURY EQUALIZER PIPES



FROM -L- STA. 555+26 TO STA. 559+68 RT.
FROM -L- STA. 555+85 TO STA. 559+88 LT.

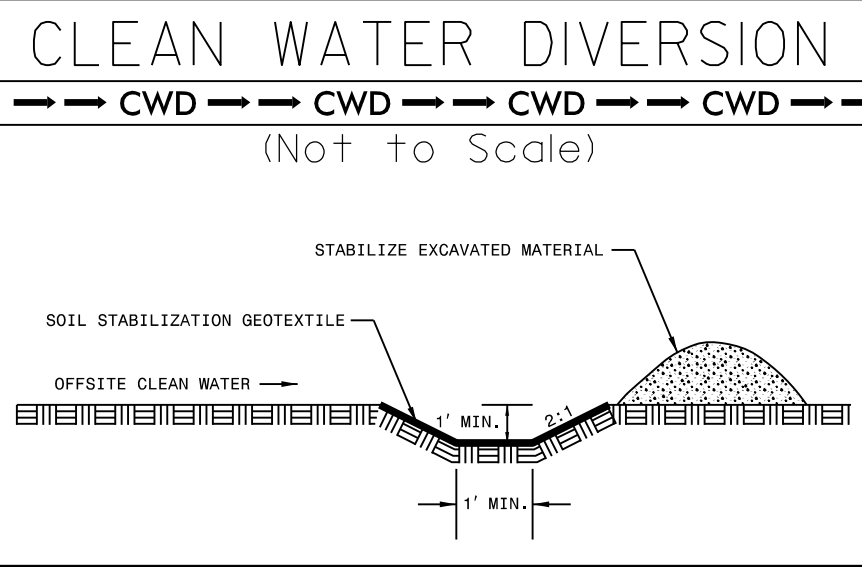
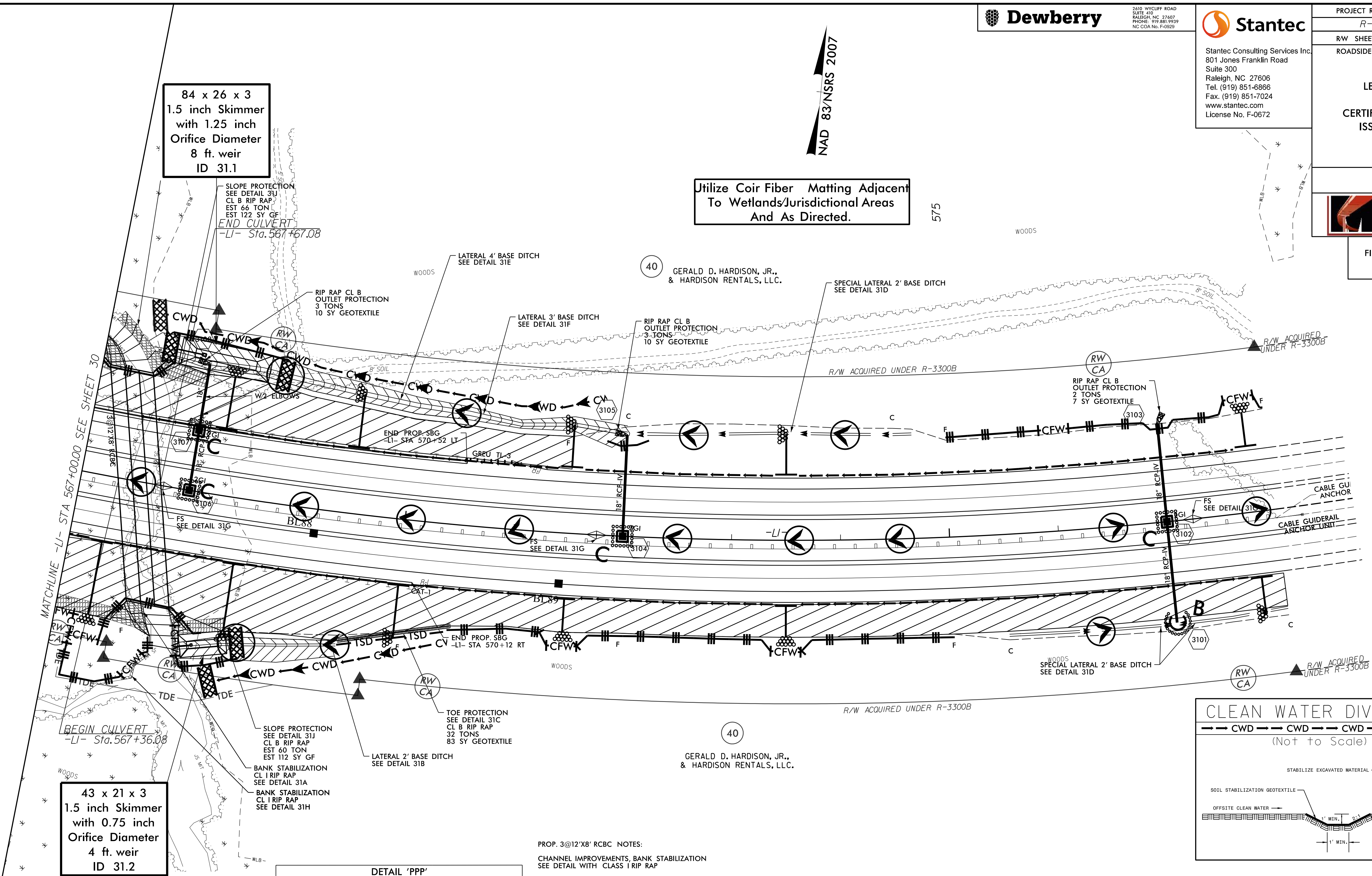


S=Ditch Slope		C=Proposed Ditch	
Ditch Grade	L	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'



SEE SHEETS 53 & 54 FOR -L1- PROFILE
SEE SHEET 2B-1 FOR HORIZONTAL CURVE DATA

Utilize Coir Fiber Matting Adjacent To Wetlands/Jurisdictional Areas And As Directed.

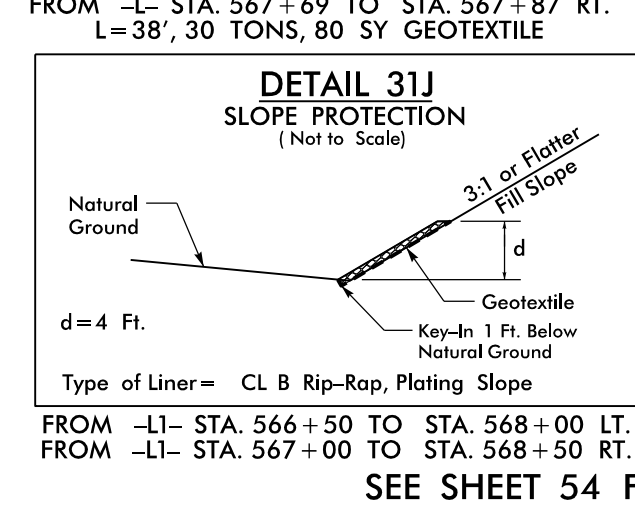
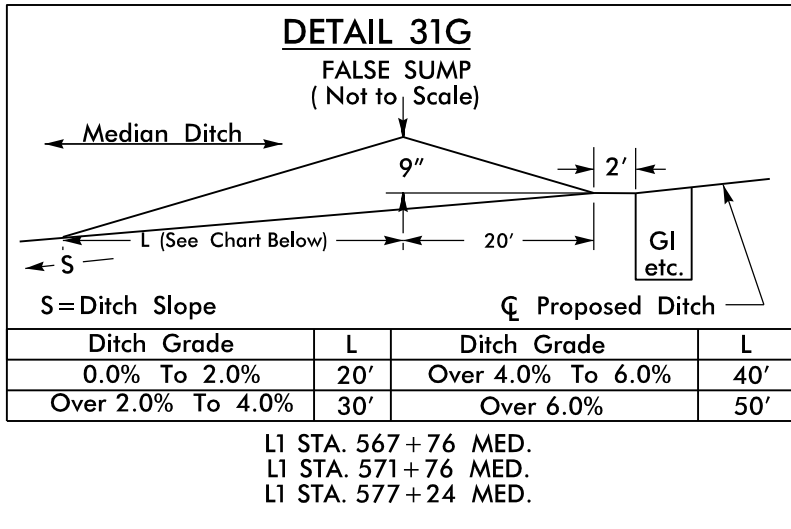
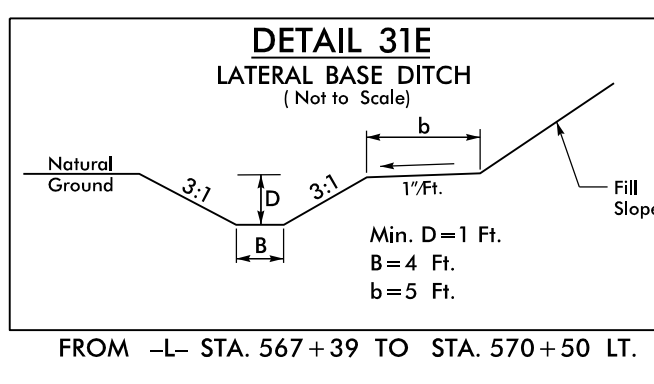
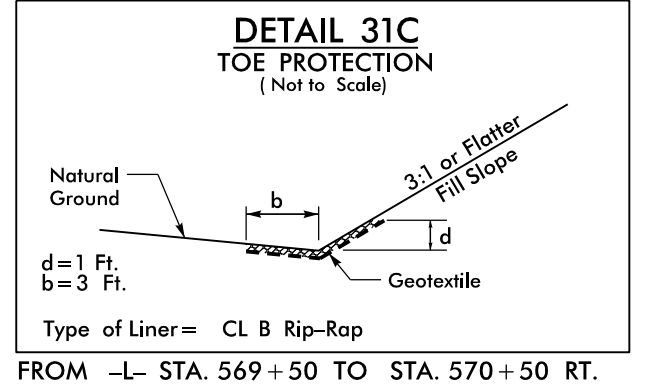
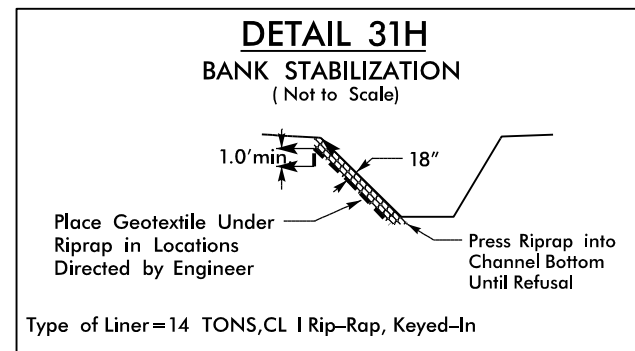
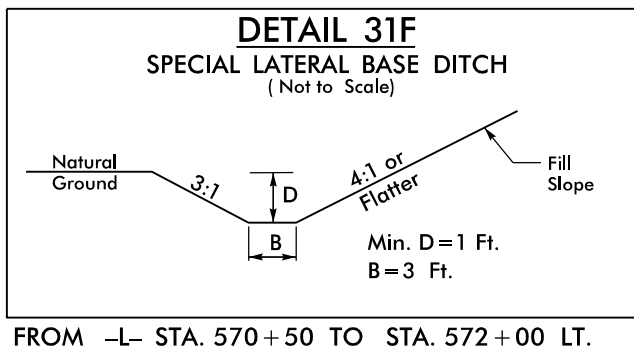
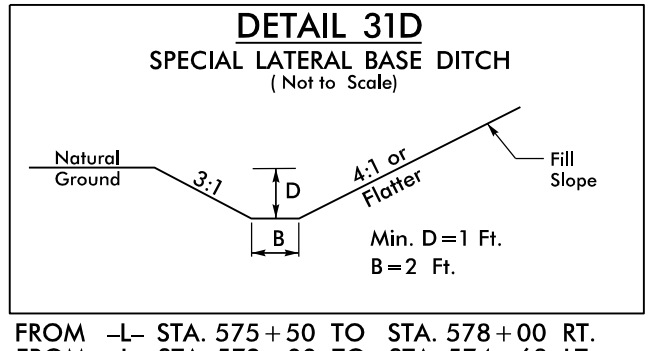
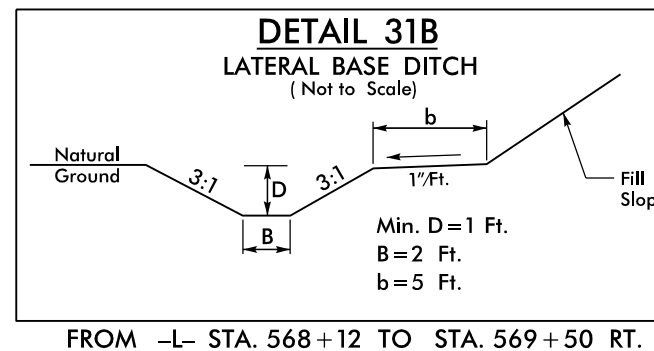
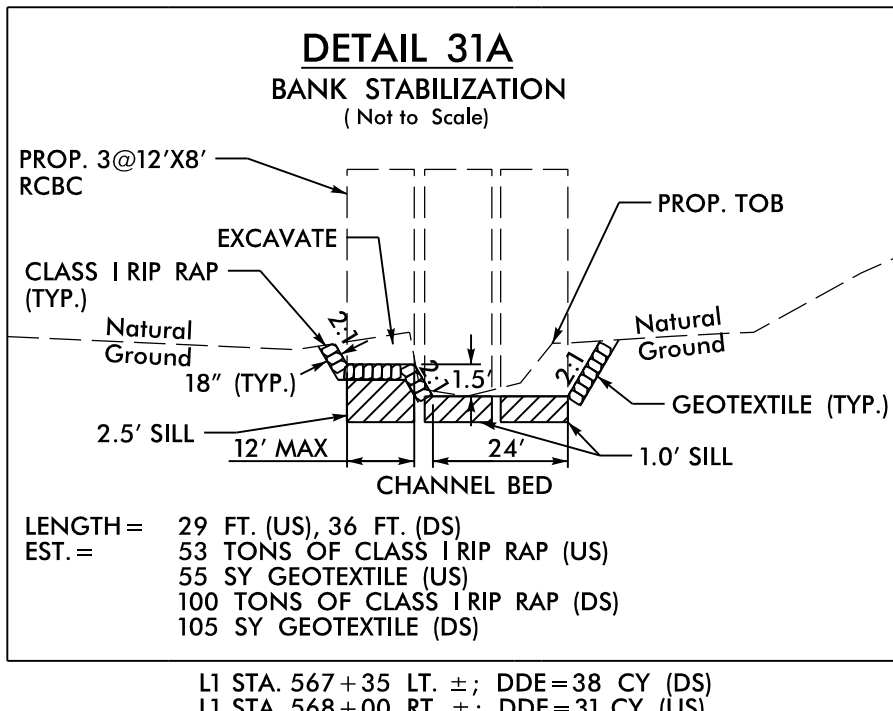
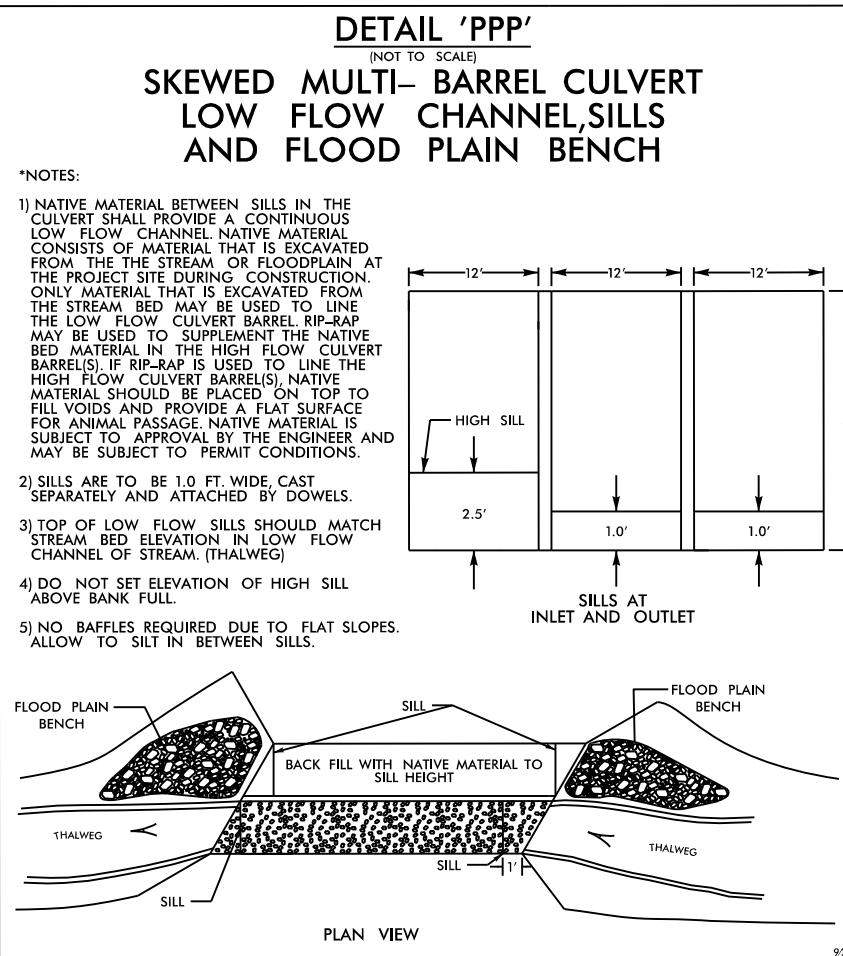


PROP. 3@12'X8' RCBC NOTES:

CHANNEL IMPROVEMENTS, BANK STABILIZATION
SEE DETAIL WITH CLASS I RIP RAP

REALIGN DS CHANNEL TO FLOW THRU EAST BARRELS

BACKFILL NORMAL FLOW BARREL WITH 1' NATIVE MATERIAL
SEE SKEWED MULTI-BARREL CULVERT LOW FLOW CHANNEL
SILLS AND FLOOD PLAIN BENCH DETAIL 'PPP'



SEE SHEET 54 FOR -L1- PROFILE