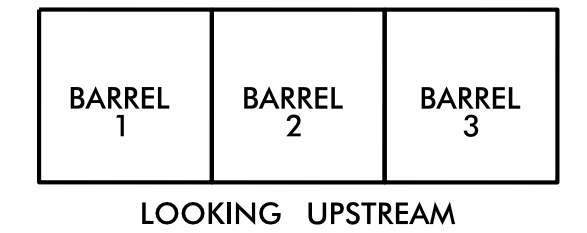
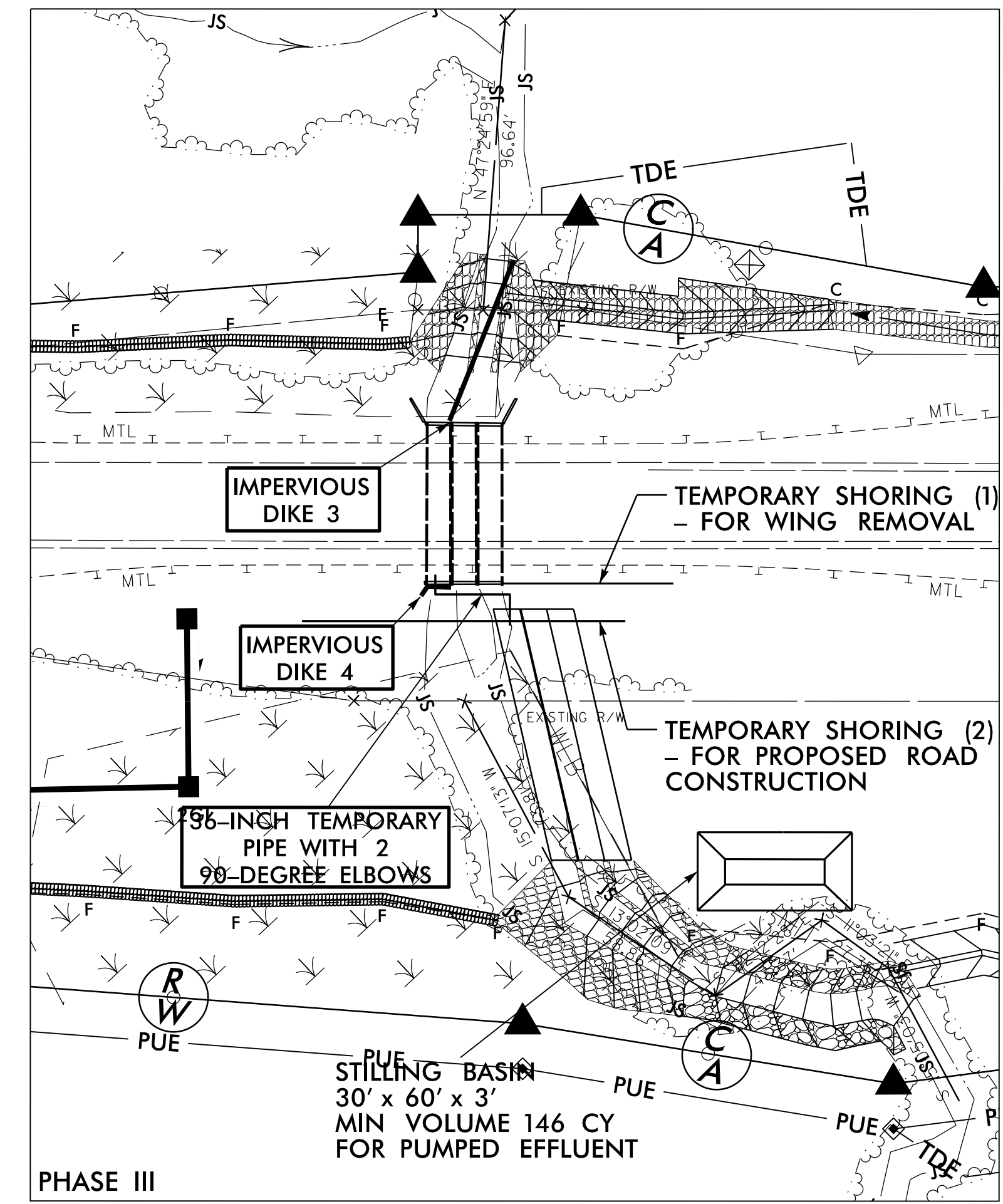
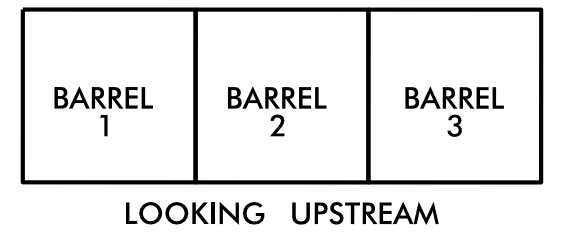
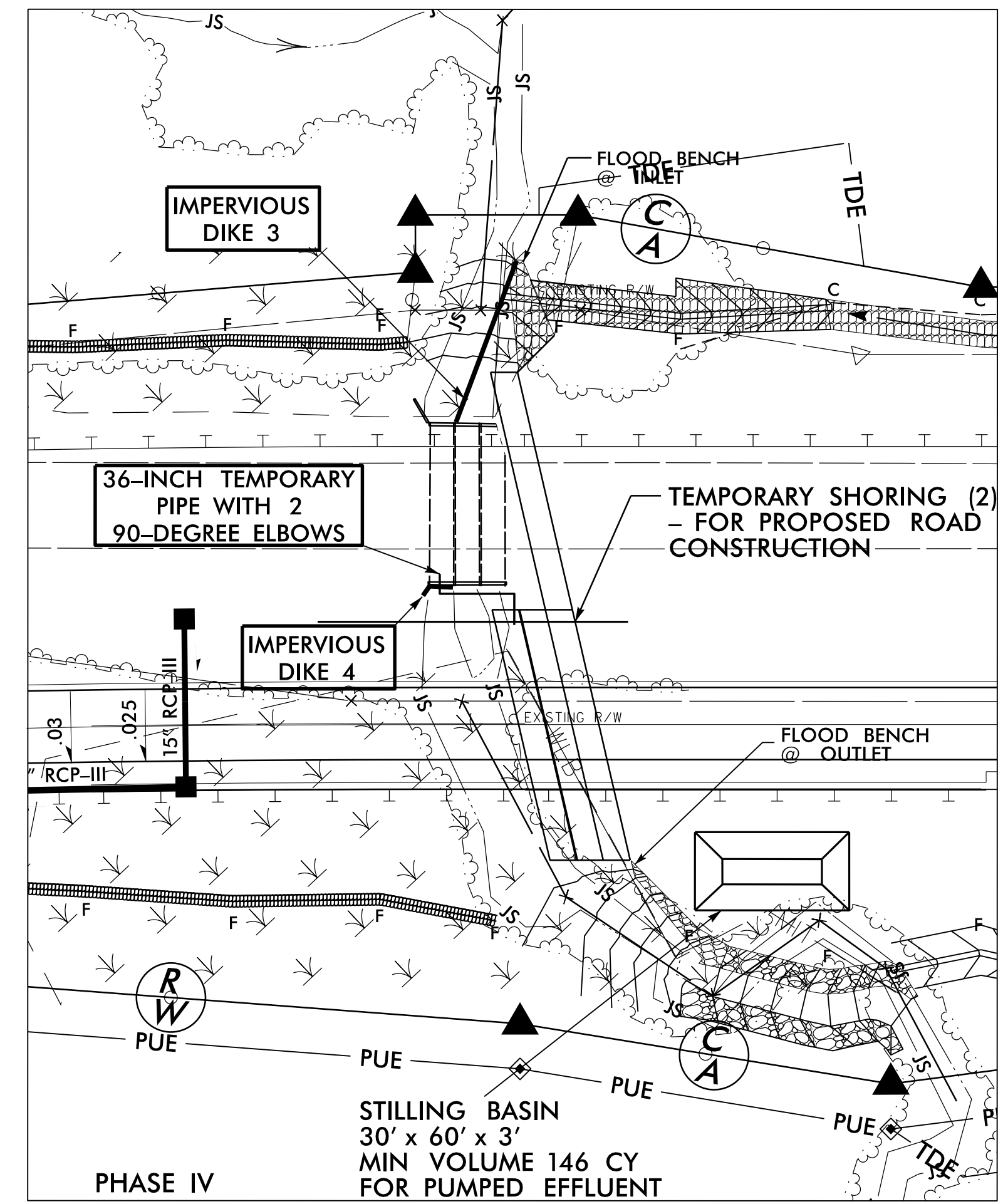


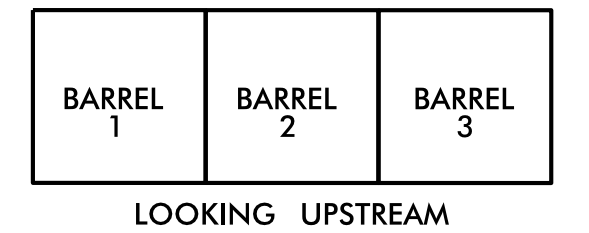
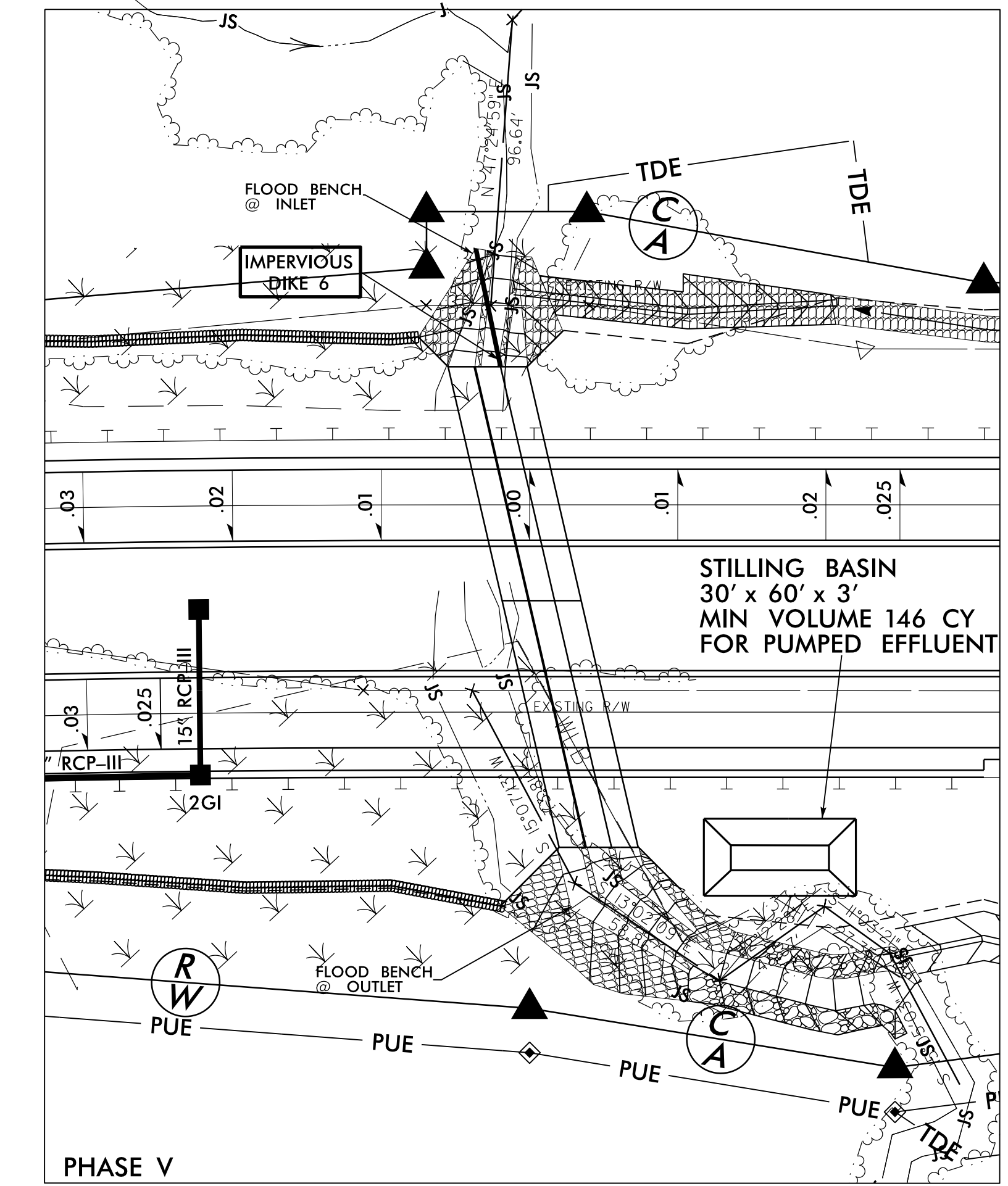
CULVERT CONSTRUCTION SEQUENCE STA. 286+51 -L-



- CONSTRUCTION SEQUENCE III**
- REMOVE IMPERVIOUS DIKE 5 AND 36" TEMPORARY FLEXIBLE PIPE. MAINTAIN STILLING BASIN.
 - INSTALL TEMPORARY 36" PIPE WITH TWO 90-DEGREE ELBOWS.
 - CONSTRUCT TEMPORARY SHORING (2) OVER PROPOSED CULVERT FOR CONSTRUCTION OF PROPOSED ROAD AND ONSITE DETOUR.
 - CONSTRUCT PROPOSED DETOUR OVER NEW CULVERT AND SHIFT TRAFFIC ONTO NEW ROADWAY.



- CONSTRUCTION SEQUENCE IV**
- REMOVE A PORTION OF EXISTING CULVERT AND EXISTING CULVERT NORTHEAST WINGWALL. REMOVE TEMPORARY SHORING (1) AS NEEDED.
 - CONSTRUCT CULVERT BARREL 3 INLET END AND NORTHEAST WINGWALL AND FLOOD BENCH.



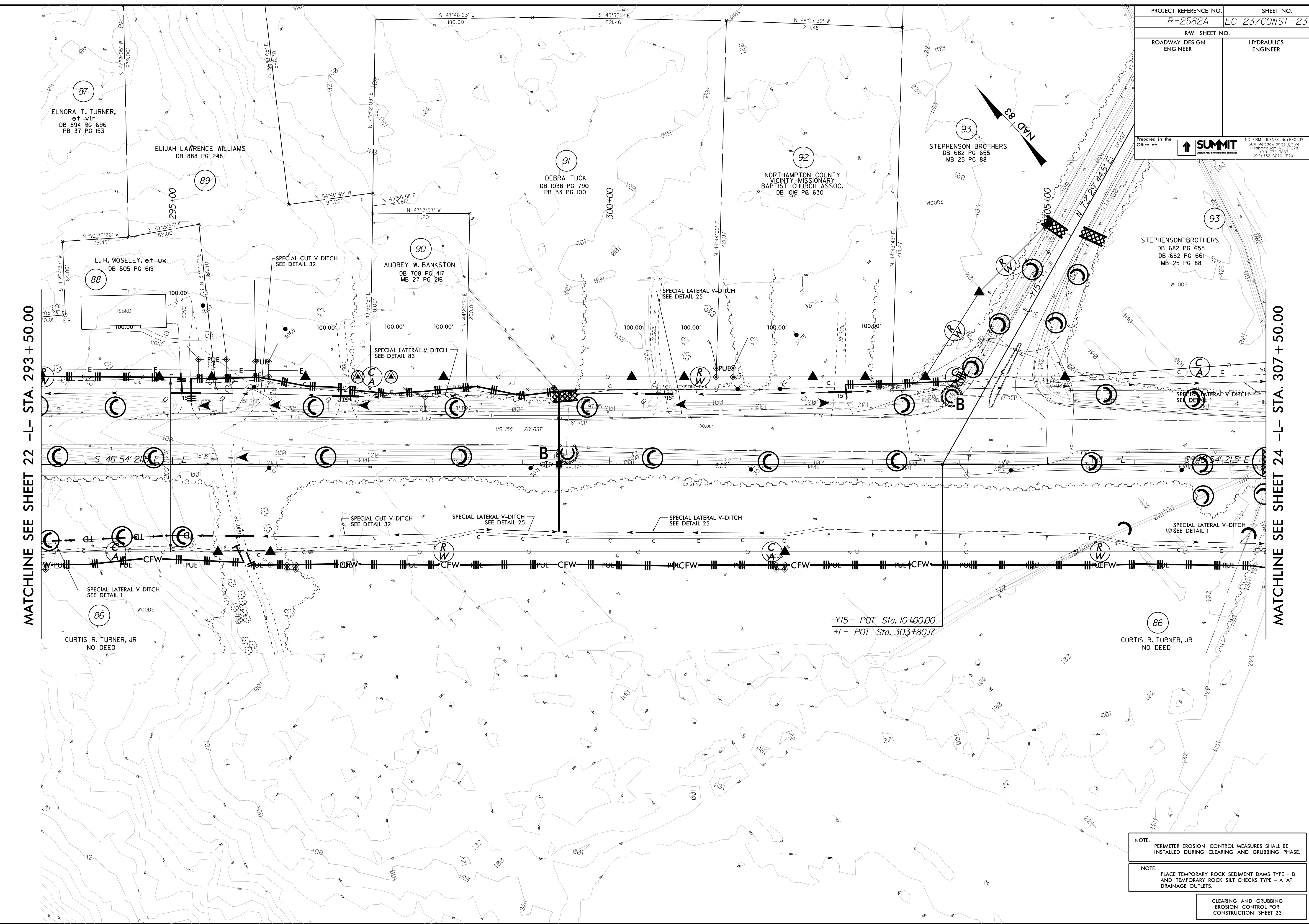
- CONSTRUCTION SEQUENCE V**
- REMOVE IMPERVIOUS DIKE 3 AND INSTALL IMPERVIOUS DIKE 6 TO DIRECT FLOW THROUGH BARREL 3 OF NEW CULVERT.
 - REMOVE REMAINDER OF EXISTING CULVERT AND TEMPORARY PIPE.
 - CONSTRUCT CULVERT 1 AND 2 INLET END AND NORTHWEST WINGWALL AND FLOOD BENCH. CONSTRUCT SOUTHWEST WINGWALL AND FLOOD BENCH.
 - REMOVE TEMPORARY SHORING, IMPERVIOUS DIKE 6 AND STILLING BASIN.
 - CONSTRUCT PROPOSED WEST BOUND ROADWAY OVER NEW CULVERT.

REVISIONS

8/17/99

15-MAY-2016 08:30
R-2582A-EC-22B.dgn
10/10/2015

PROJECT REFERENCE NO. R-2582A	SHEET NO. EC-23/CONST-23
RW SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Prepared in the Office of: SUMMIT DESIGN AND ENVIRONMENTAL SERVICES	
NC FIRM LICENSE Nos P-0339 504 Meadowslands Drive Hillsborough, NC 27278 (919) 732-3883 (919) 732-6676 (FAX)	



MATCHLINE SEE SHEET 22 -L- STA. 293+50.00

MATCHLINE SEE SHEET 24 -L- STA. 307+50.00

-Y15- POT Sta. 10+00.00
+L- POT Sta. 303+80.17

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

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 23

8/17/99

24-JAN-2009 09:18
R:\2582A\EC-23.dgn

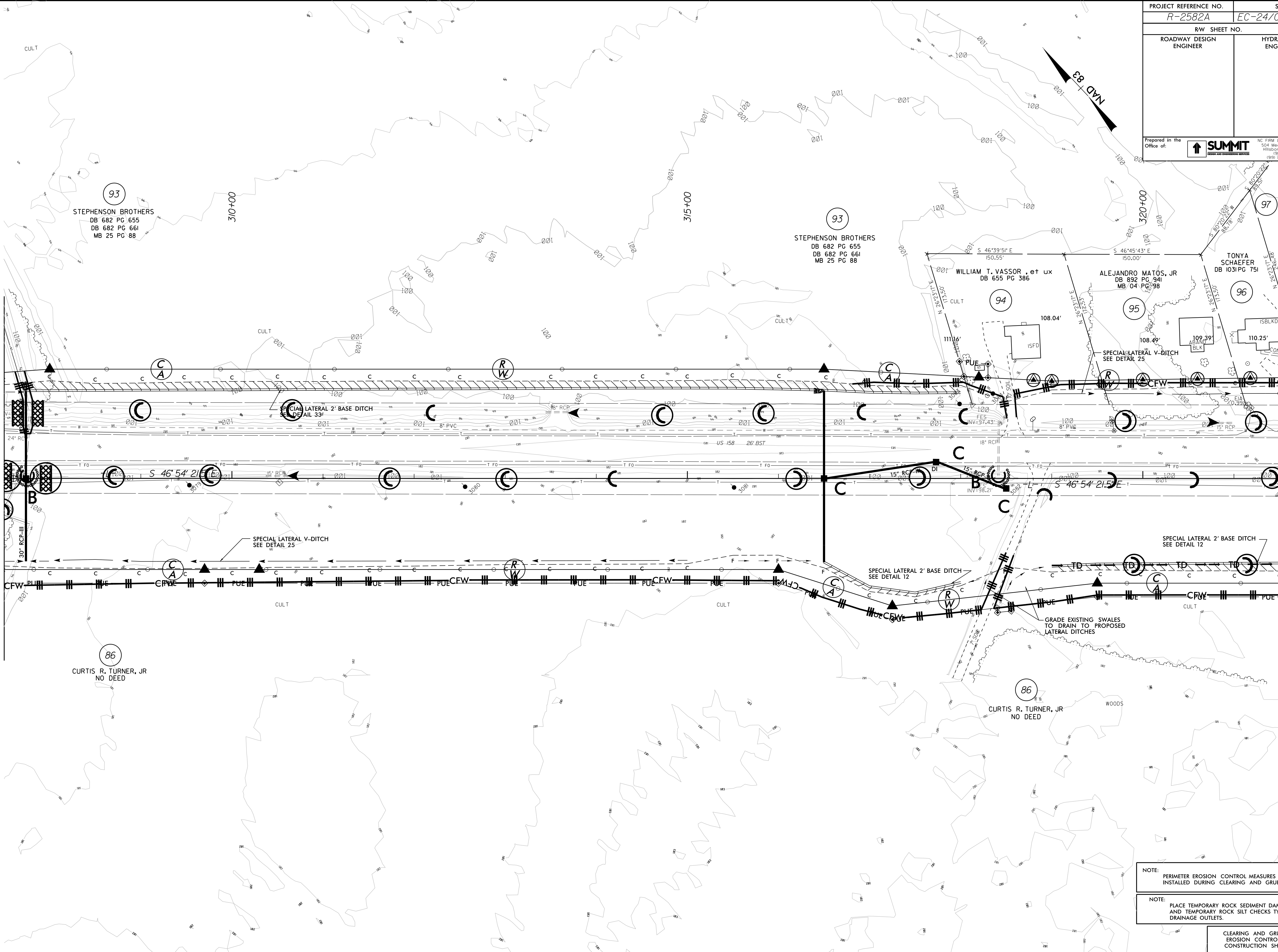
8/17/99

24-JAN-2009 09:19
R:\2582A\EC-P&H-24.dgn
JLD/DOE/PLS

PROJECT REFERENCE NO. <i>R-2582A</i>	SHEET NO. <i>EC-24/CONST-24</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Prepared in the Office of:	
 SUMMIT DESIGN AND ENGINEERING SERVICES	
<small>NC FIRM LICENSE Nos P-0339 504 Meadowslands Drive Hillsborough, NC 27278 (919) 732-3883 (919) 732-6676 (FAX)</small>	

MATCHLINE SEE SHEET 23 -L- STA. 307 + 50.00

MATCHLINE SEE SHEET 25 -L- STA. 321 + 50.00



NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

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 24

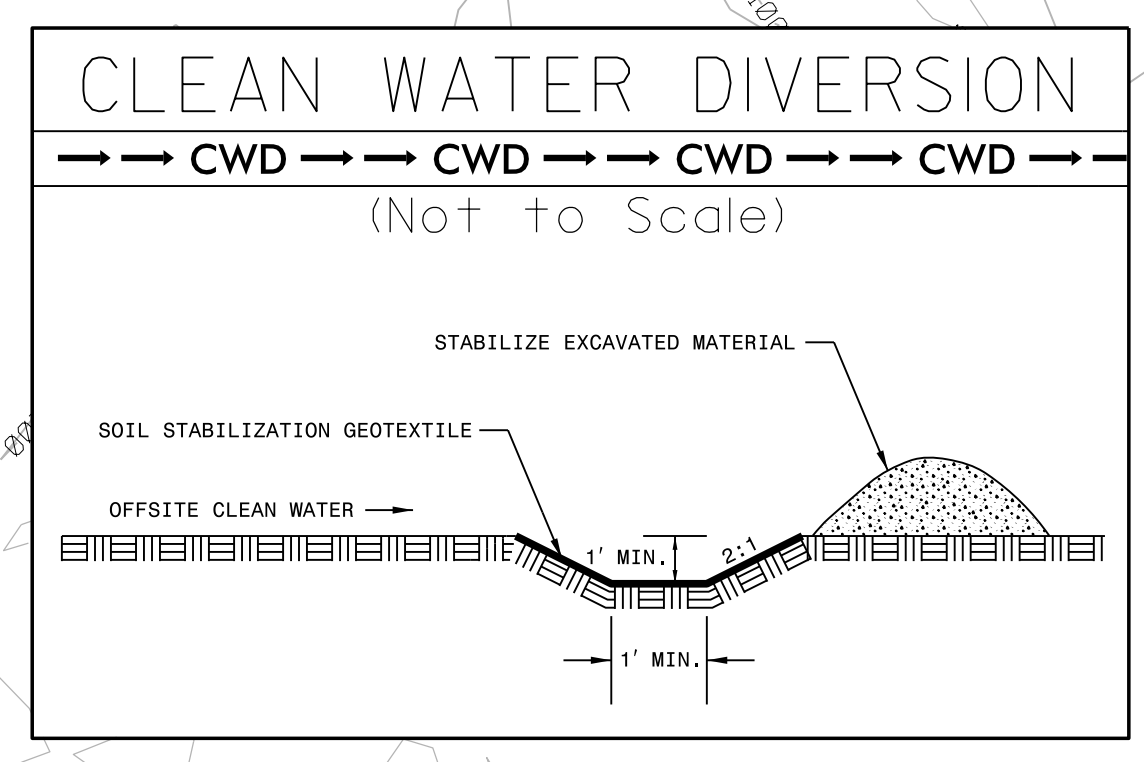
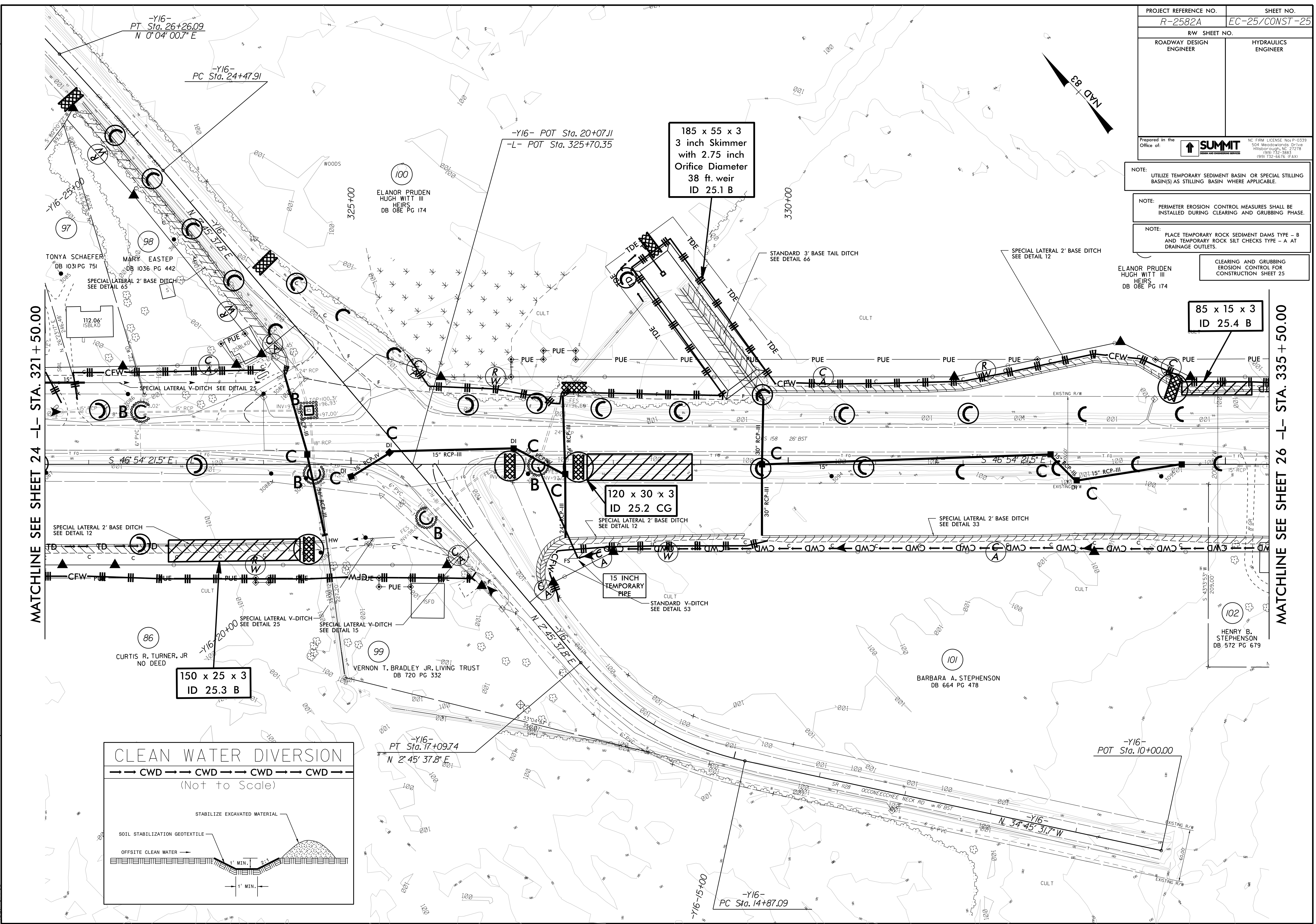
PROJECT REFERENCE NO. R-2582A	SHEET NO. EC-25/CONST-25
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Prepared in the Office of: SUMMIT CONSTRUCTION SERVICES	
<small>NC FPM LICENSE No. P-0339 504 Meadowlands Drive Hillsborough, NC 27278 (919) 752-3883 (919) 752-0670 (FAX)</small>	

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

NOTE: PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

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 25




REVISIONS

8/17/99

24-SEP-2019 09:41
 R-2582A.EC_psh_25.dgn
 0011000113

MATCHLINE SEE SHEET 24 -L- STA. 321+50.00

MATCHLINE SEE SHEET 26 -L- STA. 335+50.00

PROJECT REFERENCE NO. R-2582A	SHEET NO. EC-26/CONST-26
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Prepared in the Office of:	
	
<small>NC FIRM LICENSE Nos P-0339 504 Meadowslands Drive Hillsborough, NC 27278 (919) 732-3883 (919) 732-6676 (FAX)</small>	

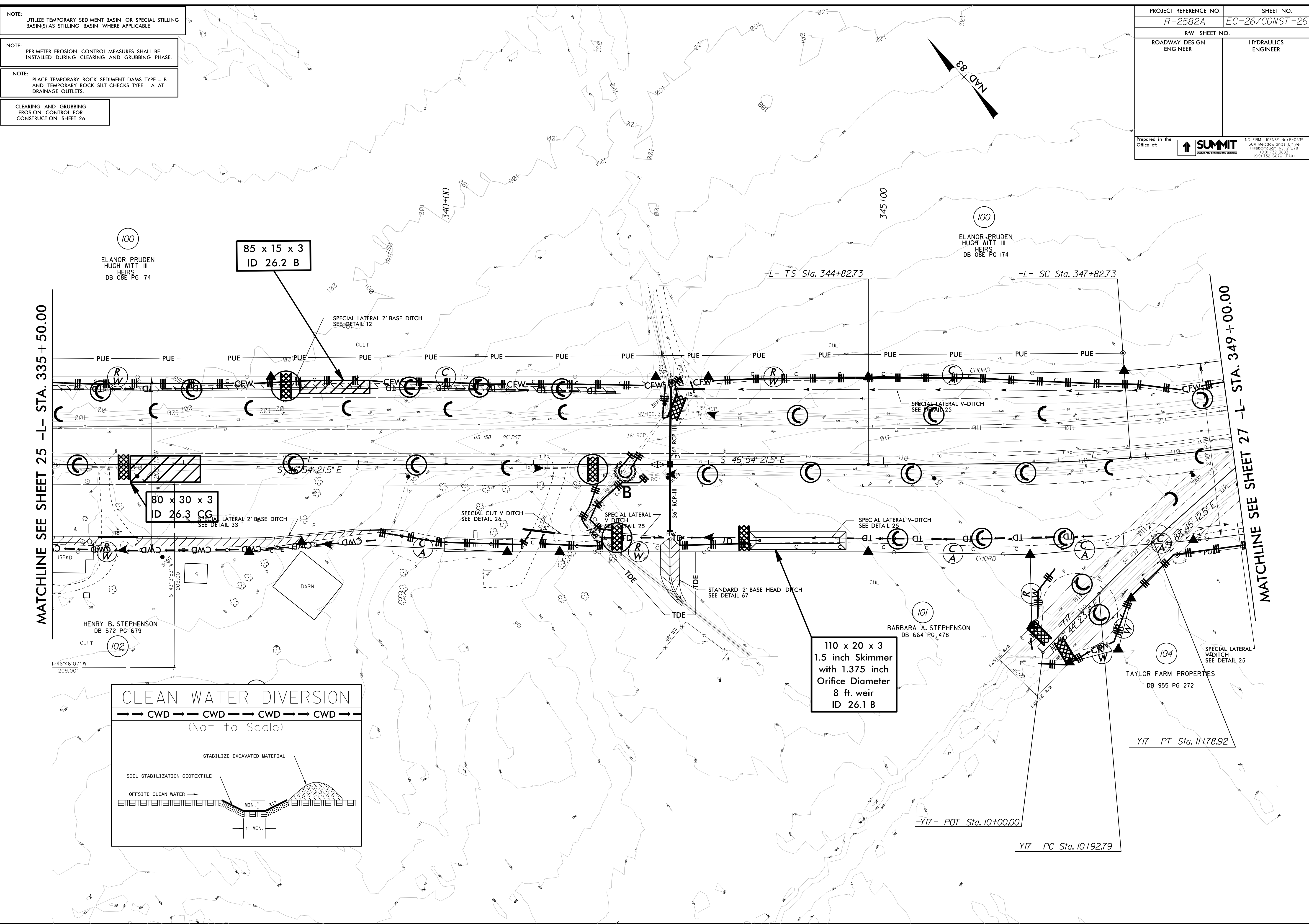
8/17/99

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

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

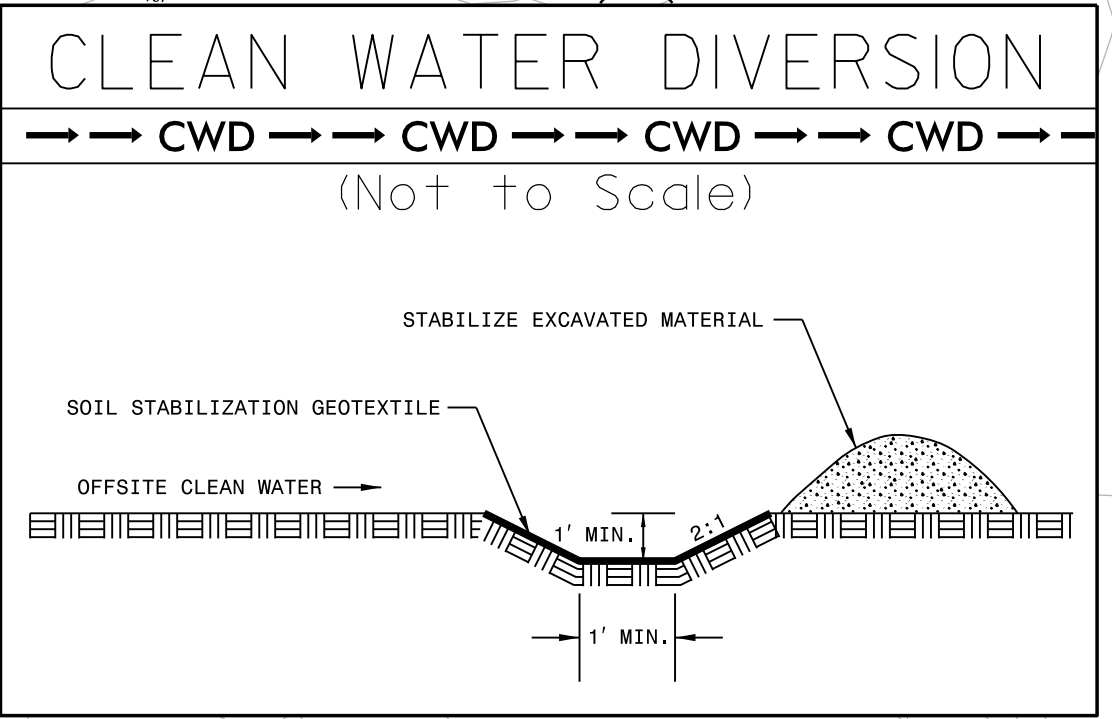
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 26



MATCHLINE SEE SHEET 25 -L- STA. 335 + 50.00

MATCHLINE SEE SHEET 27 -L- STA. 349 + 00.00



24-SEP-2009 08:52
R:\2582A\EC-26.CONST-26.dgn

PROJECT REFERENCE NO. <i>R-2582A</i>	SHEET NO. <i>EC-27/CONST-27</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

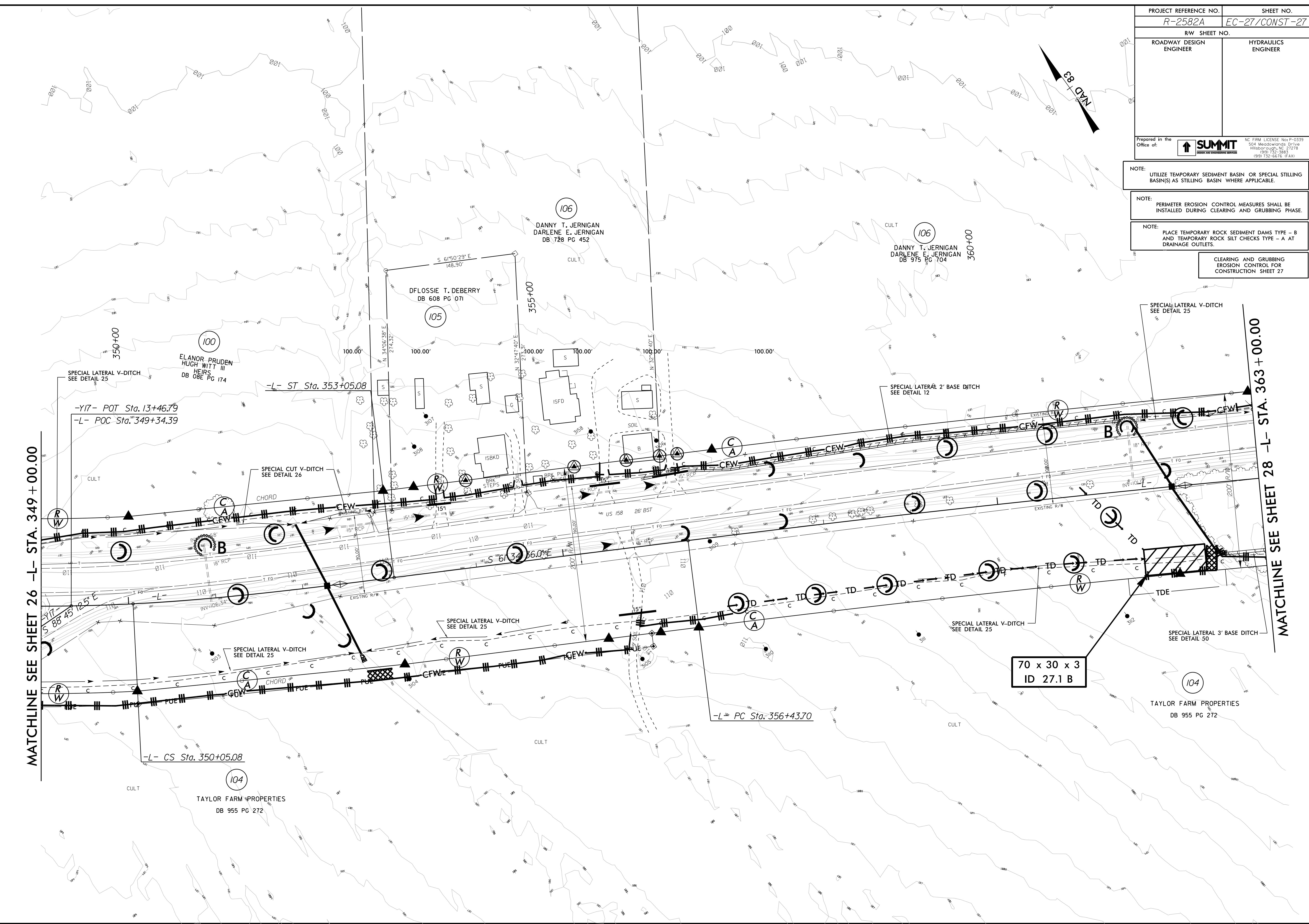
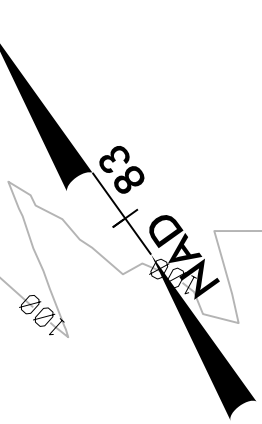
Prepared in the Office of: **SUMMIT**
DESIGN AND ENGINEERING SERVICES
NC FIRM LICENSE Nos P-0339
504 Meadowslands Drive
Hillsborough, NC 27278
(919) 732-3883
(919) 732-6676 (FAX)

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

NOTE: PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

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




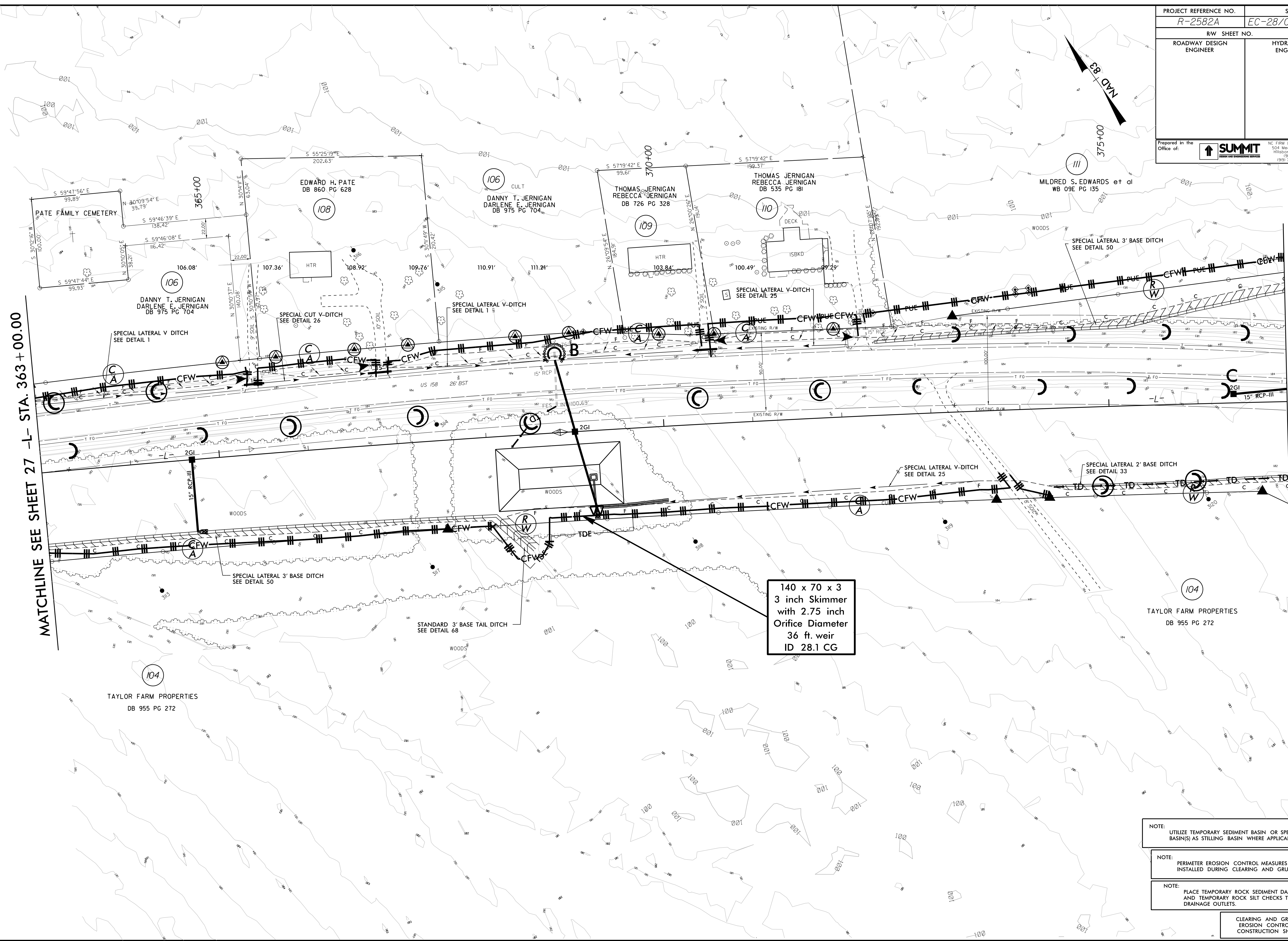
MATCHLINE SEE SHEET 26 -L- STA. 349 + 00.00

MATCHLINE SEE SHEET 28 -L- STA. 363 + 00.00

8/17/99

24-JAN-2008 10:22
R4-2582A-EC-27.dgn
10:00:00

PROJECT REFERENCE NO. R-2582A	SHEET NO. EC-28/CONST-28
RW SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Prepared in the Office of:	
	
<small>NC FIRM LICENSE No. P-0339 504 Meadowslands Drive Hillsborough, NC 27278 (919) 732-3883 (919) 732-6676 (FAX)</small>	



MATCHLINE SEE SHEET 27 -L- STA. 363 + 00.00


MATCHLINE SEE SHEET 29 -L- STA. 377 + 00.00

140 x 70 x 3
3 inch Skimmer
with 2.75 inch
Orifice Diameter
36 ft. weir
ID 28.1 CG

- NOTE:
UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.
- NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.
- 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 28

8/17/99

24-JAN-2019 12:51
R-2582A-EC-28.dgn
10/10/2015

PROJECT REFERENCE NO. R-2582A	SHEET NO. EC-29/CONST-29
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Prepared in the Office of:	
	
<small>NC FIRM LICENSE Nos P-0339 504 Meadowslands Drive Hillsborough, NC 27278 (919) 732-3883 (919) 732-6676 (FAX)</small>	

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

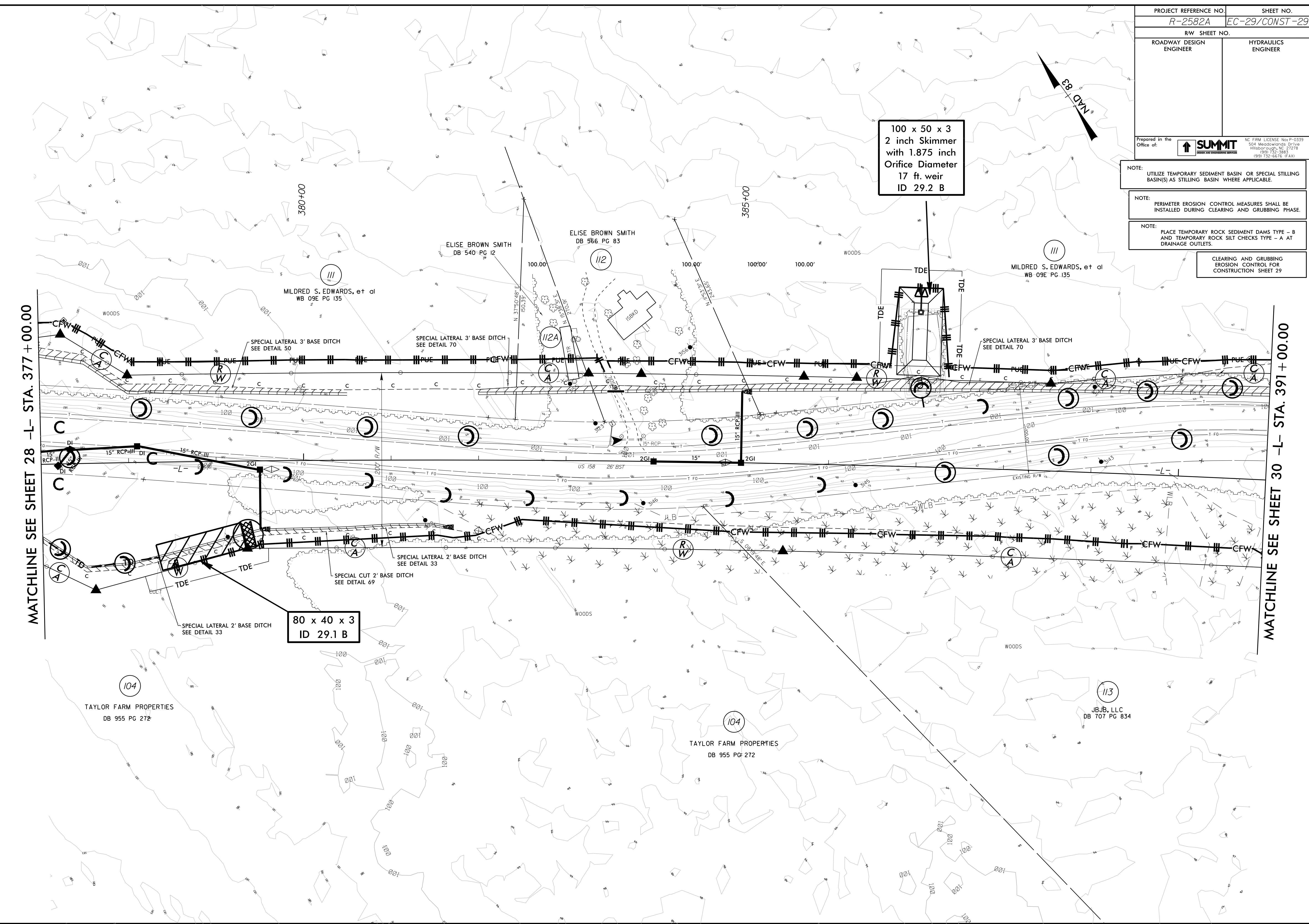
NOTE: PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

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

100 x 50 x 3
2 inch Skimmer
with 1.875 inch
Orifice Diameter
17 ft. weir
ID 29.2 B

80 x 40 x 3
ID 29.1 B




REVISIONS
RW REV. 6/22/18 (RVP): REVISED PROPERTY OWNER NAME ON PARCEL 112 AND ADDED PARCEL 112A.

8/17/99

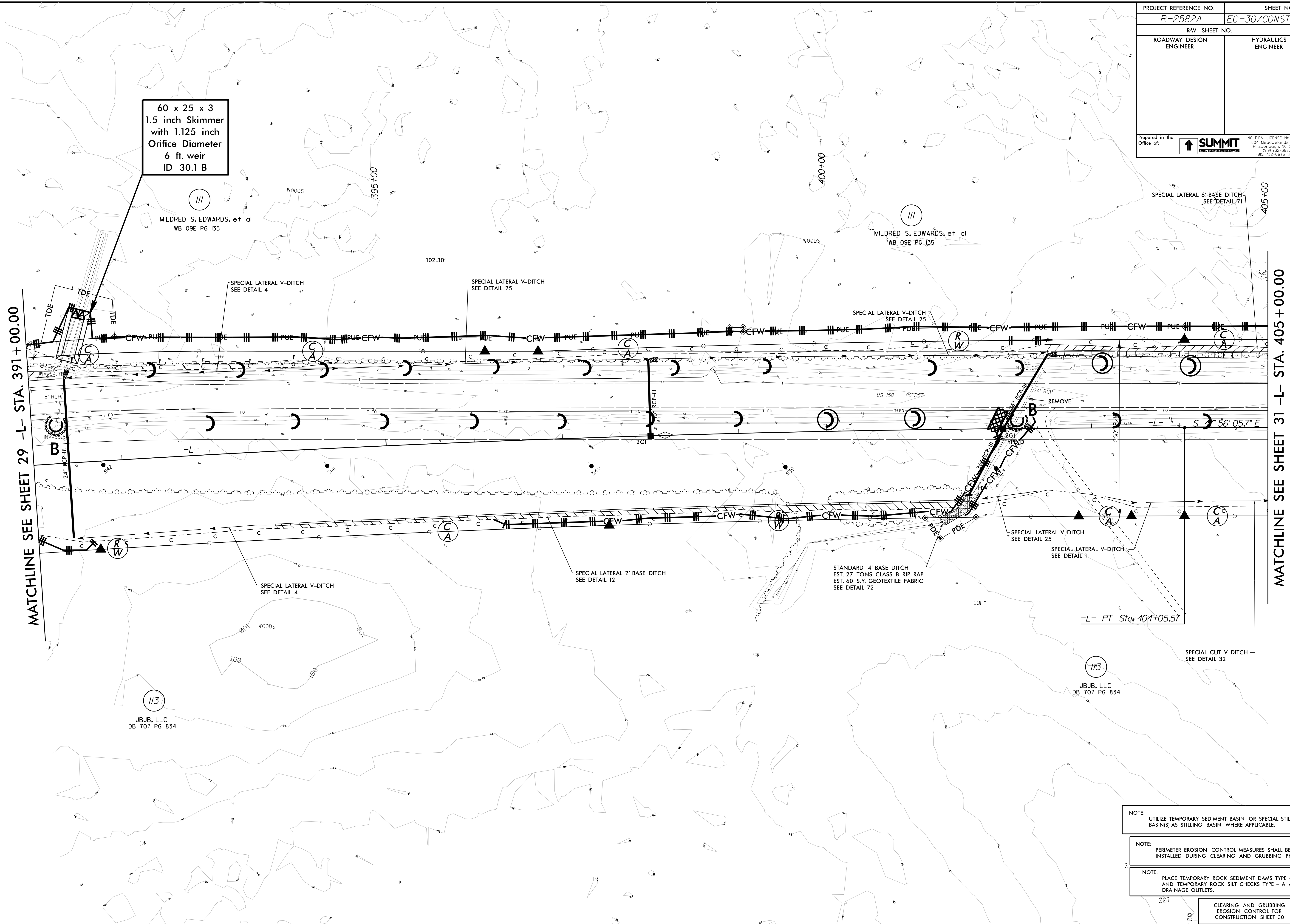
24-JAN-2018 13:51
R-2582A-EC-29.dgn
JLD/DOE/PLS

MATCHLINE SEE SHEET 28 -L- STA. 377 + 00.00

MATCHLINE SEE SHEET 30 -L- STA. 391 + 00.00

PROJECT REFERENCE NO. R-2582A	SHEET NO. EC-30/CONST-30
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Prepared in the Office of:	
	
<small>NC FIRM LICENSE Nos P-0339 504 Meadowslands Drive Hillsborough, NC 27578 (919) 732-3883 (919) 732-6676 (FAX)</small>	

60 x 25 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
6 ft. weir
ID 30.1 B



MATCHLINE SEE SHEET 29 -L- STA. 391 + 00.00

MATCHLINE SEE SHEET 31 -L- STA. 405 + 00.00

113
JBB, LLC
DB 707 PG 834


STANDARD 4' BASE DITCH
EST. 27 TONS CLASS B RIP RAP
EST. 60 S.Y. GEOTEXTILE FABRIC
SEE DETAIL 72

-L- PT Sta. 404+05.57

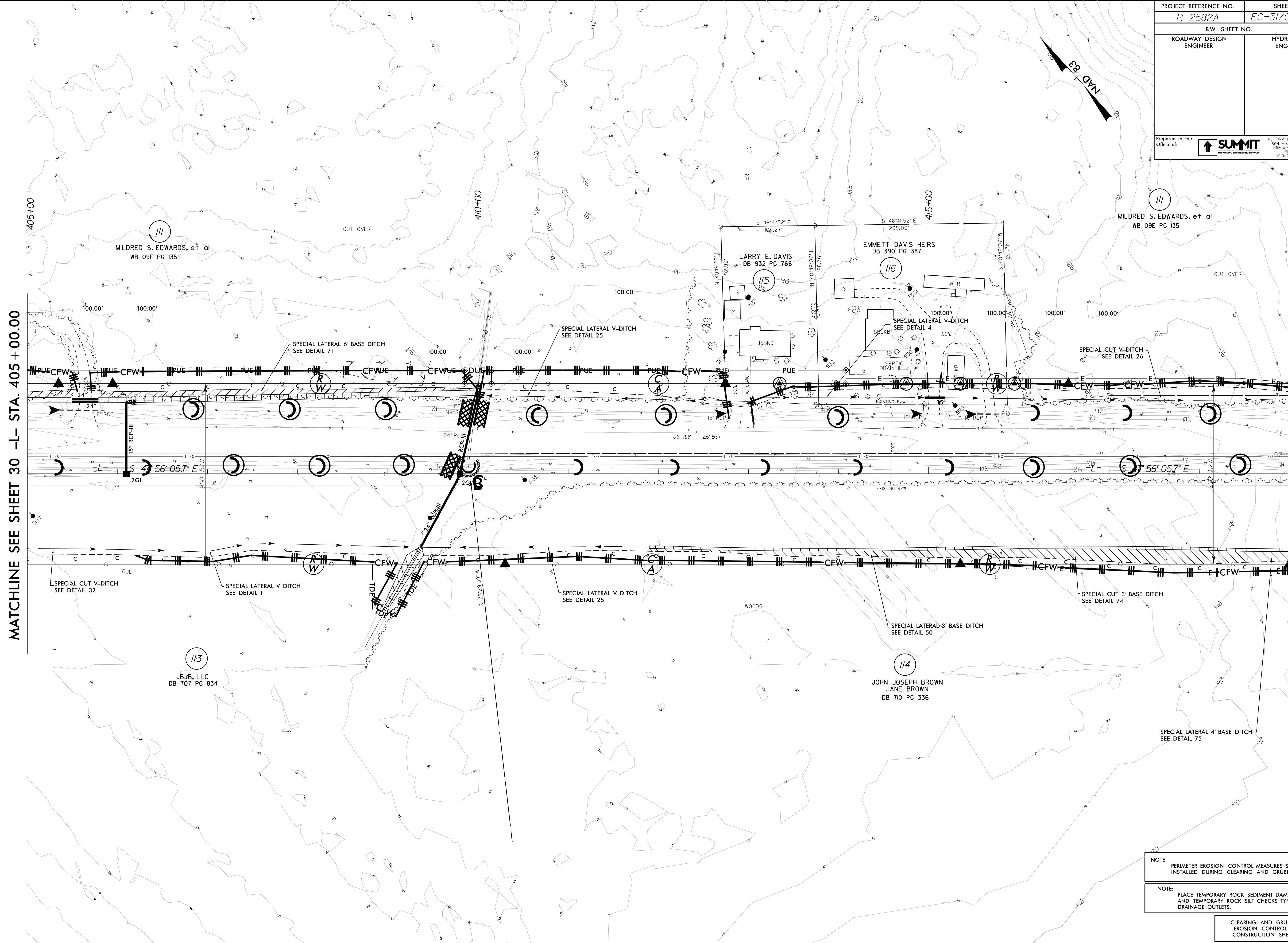
- NOTE: UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.
- NOTE: PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.
- NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.
- CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 30

8/17/99

24-JAN-2008 09:27
R-2582A-EC-30.dgn
JBB

PROJECT REFERENCE NO. R-2582A	SHEET NO. EC-31/CONST. 31
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Prepared in the Office of:	
 SUMMIT <small>DESIGN AND ENGINEERING SERVICES</small>	
<small>NC FIRM LICENSE Nos P-0339 504 Meadowslands Drive Hillsborough, NC 27278 (919) 732-3883 (919) 732-6676 (FAX)</small>	

8/17/99



MATCHLINE SEE SHEET 30 -L- STA. 405 + 00.00

MATCHLINE SEE SHEET 32 -L- STA. 419 + 00.00

NOTE: PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

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 31

24-JAN-2008 09:52
R-2582A-EC-31-CONST.31.dgn
JLD/DOE/PLS

PROJECT REFERENCE NO. R-2582A	SHEET NO. EC-32/CONST-32
RW SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Prepared in the Office of: **SUMMIT**
DESIGN AND ENGINEERING SERVICES
NC FIRM LICENSE Nos P-0339
504 Meadowslands Drive
Hillsborough, NC 27578
(919) 732-3883
(919) 732-6676 (FAX)

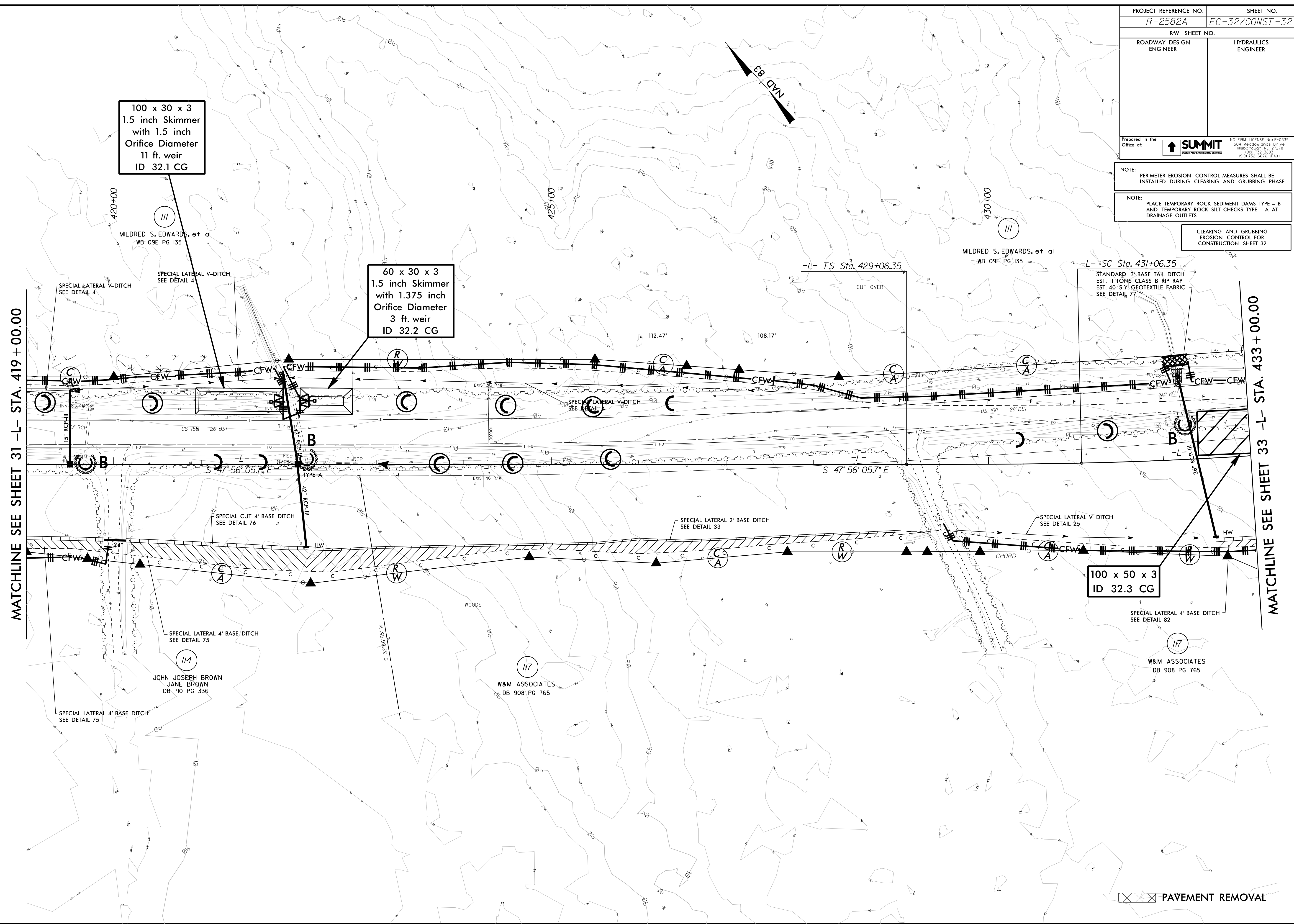
NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

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 32

8/17/99

24-JAN-2008 09:30
R:\2582A\EC-32.dgn
JLD/DOE/PLS



PAVEMENT REMOVAL

PROJECT REFERENCE NO.	SHEET NO.
R-2582A	EC-33/CONST-33
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Prepared in the Office of:
 SUMMIT
 DESIGN AND ENGINEERING SERVICES
 NC FIRM LICENSE: Not P-0359
 504 Meadowslands Drive
 Hillsborough, NC 27278
 (919) 732-3883
 (919) 732-6676 (FAX)

NOTE: PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

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 33

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

-L CR EBL-
 PI Sta 14+15.18
 $\Delta = 13^{\circ} 57' 53.4''$ (LT)
 $D = 1' 41' 24.5''$
 $L = 826.25'$
 $T = 415.18'$
 $R = 3,390.00'$

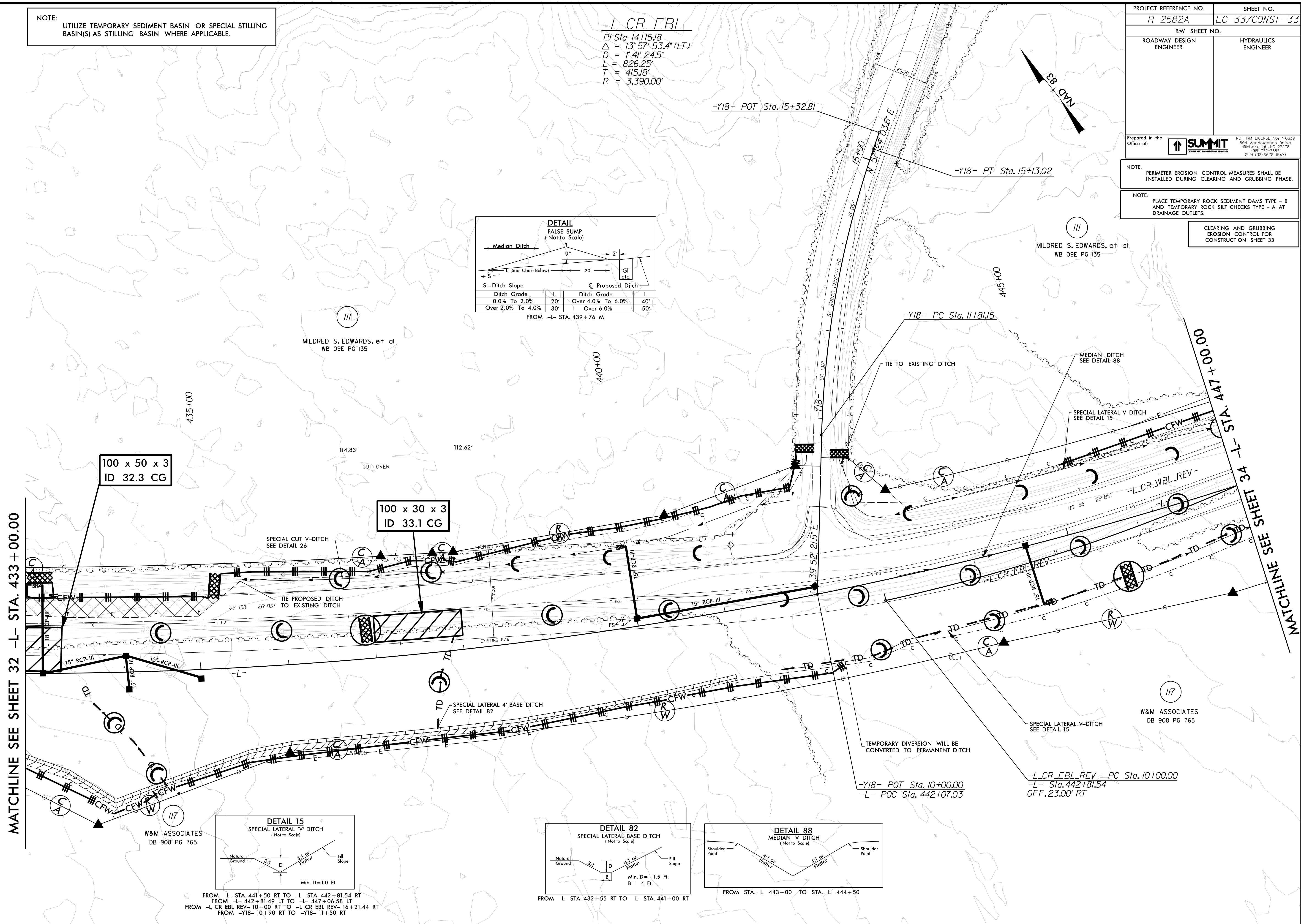
DETAIL FALSE SUMP
(Not to Scale)

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'

FROM -L STA. 439+76 M

MATCHLINE SEE SHEET 32 -L- STA. 433+00.00

MATCHLINE SEE SHEET 34 -L- STA. 447+00.00



100 x 50 x 3
ID 32.3 CG

100 x 30 x 3
ID 33.1 CG

DETAIL 15 SPECIAL LATERAL 'V' DITCH
(Not to Scale)

Min. D = 1.0 Ft.

DETAIL 82 SPECIAL LATERAL BASE DITCH
(Not to Scale)

Min. D = 1.5 Ft.
B = 4 Ft.

DETAIL 88 MEDIAN V DITCH
(Not to Scale)

FROM -L STA. 441+50 RT TO -L STA. 442+81.54 RT
 FROM -L STA. 442+81.49 LT TO -L STA. 447+06.58 LT
 FROM -L CR EBL REV- 10+00 RT TO -L CR EBL REV- 16+21.44 RT
 FROM -Y18- 10+90 RT TO -Y18- 11+50 RT

FROM -L STA. 432+55 RT TO -L STA. 441+00 RT

FROM STA. -L- 443+00 TO STA. -L- 444+50

-Y18- POT Sta. 10+00.00
 -L- POC Sta. 442+07.03


-L CR EBL REV- PC Sta. 10+00.00
 -L- Sta. 442+81.54
 OFF. 23.00' RT

EROSION CONTROL REVISION: EROSION CONTROL DESIGN WAS REVISED TO TREAT FLOW IN DITCHES ALONG -Y18-

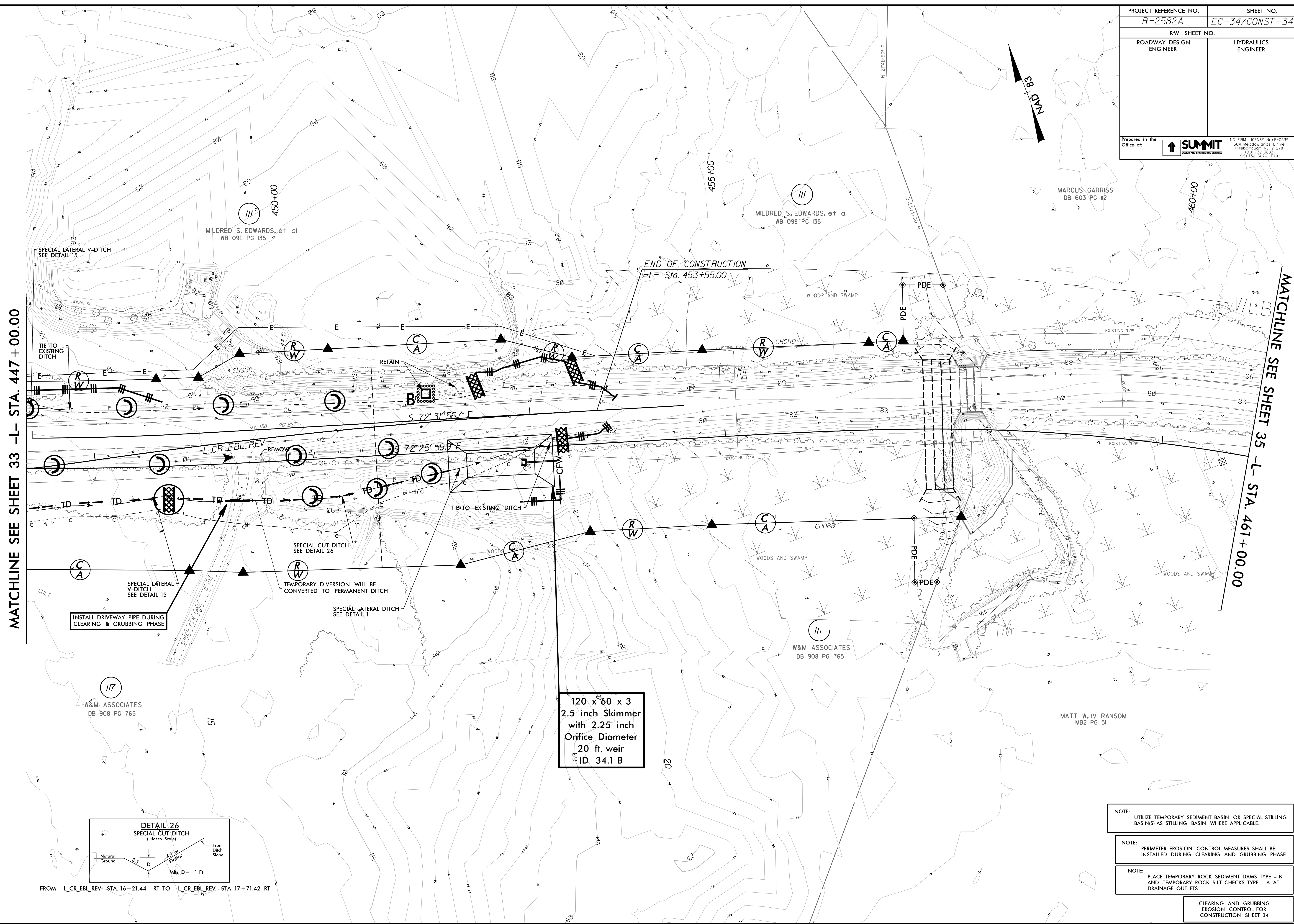
REVISIONS

8/17/99

7/23/2020
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 W&M ASSOCIATES DB 908 PG 765
 W&M ASSOCIATES DB 908 PG 765

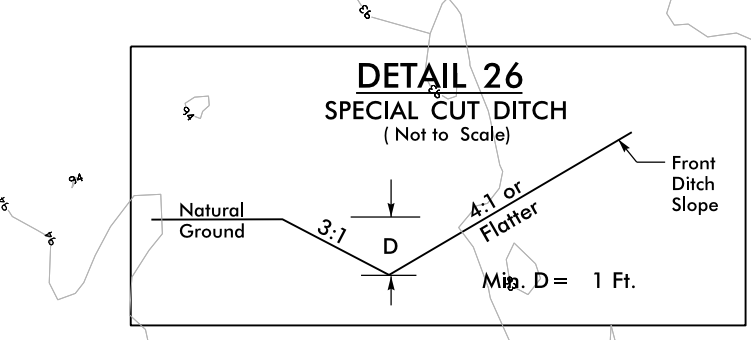
PROJECT REFERENCE NO. R-2582A	SHEET NO. EC-34/CONST-34
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Prepared in the Office of:	
	
<small>NC FIRM LICENSE Nos P-0339 504 Meadowslands Drive Hillsborough, NC 27278 (919) 732-3883 (919) 732-6676 (FAX)</small>	

REVISIONS
 EROSION CONTROL REVISIONS: EROSION CONTROL BASIN 341 HAS BEEN MOVED FROM STA. 457+16 TO STA. 453+00 AND ROADWAY EC HAS BEEN UPDATED TO ACCOMMODATE ROADWAY REVISIONS TO AVOID WETLAND AND SURFACE WATER IMPACTS ALONG -L-CR-EBL-REV- AND -L-CR-WBL-REV-



MATCHLINE SEE SHEET 33 -L- STA. 447 + 00.00

MATCHLINE SEE SHEET 35 -L- STA. 461 + 00.00



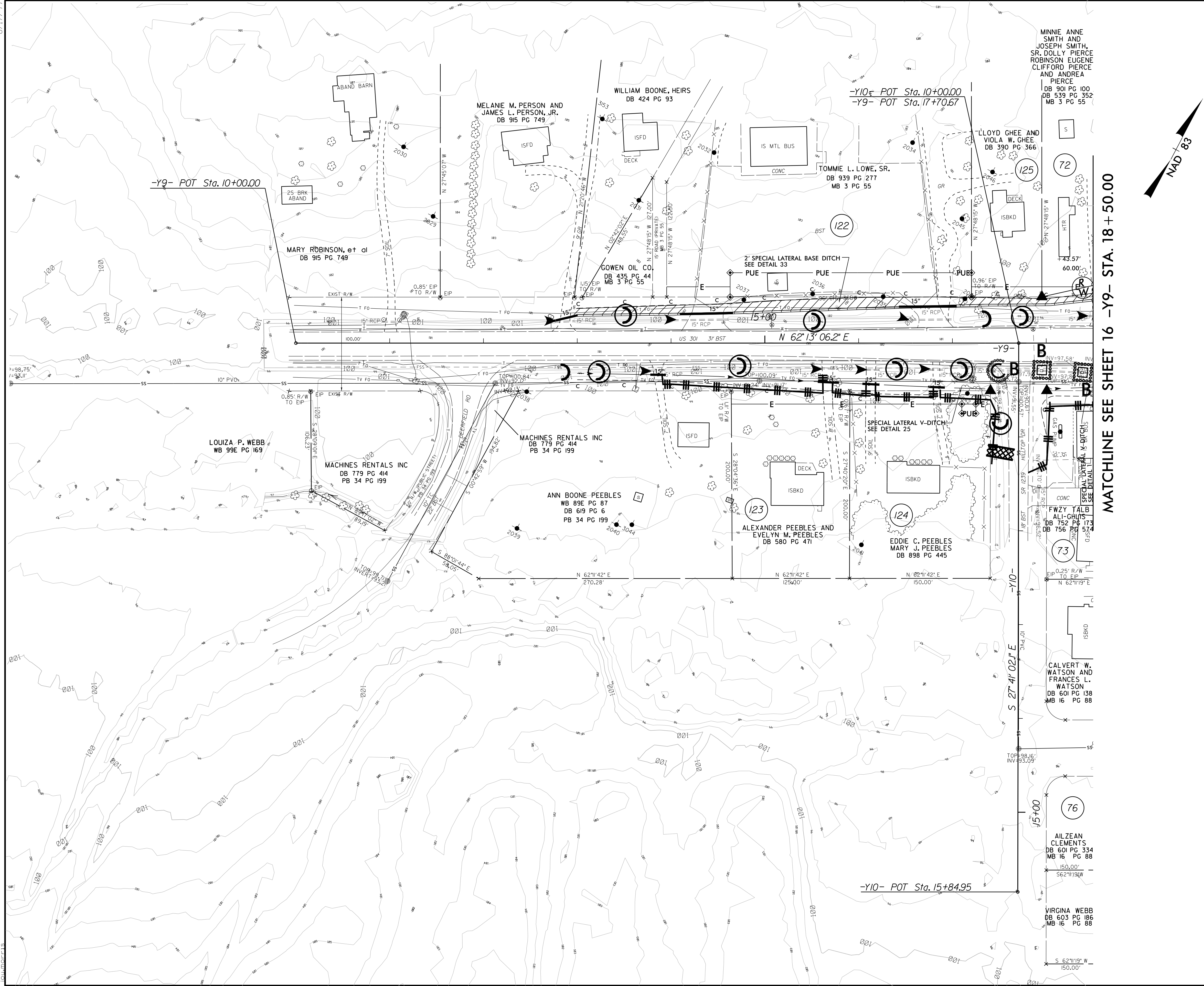
FROM -L-CR-EBL-REV- STA. 16+21.44 RT TO -L-CR-EBL-REV- STA. 17+71.42 RT

- NOTE:** UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.
- NOTE:** PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.
- 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 34

8/17/99
 07-AUG-2020 10:30:44.dgn
 07-2582A-EC-34-Const-34.dgn
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8/17/99

24-JAN-2008 0:33
R4-2582A-EC-35.dgn
L:\PROJECTS\2582A\EC-35.dgn



PROJECT REFERENCE NO. <i>R-2582A</i>	SHEET NO. <i>EC-35/CONST-35</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

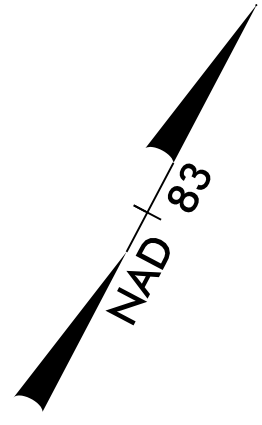
Prepared in the Office of: **SUMMIT**
DESIGN AND ENGINEERING SERVICES

NC FIRM LICENSE Nos P-0339
504 Meadowslands Drive
Hillsborough, NC 27578
(919) 732-3883
(919) 732-6676 (Fax)

NOTE: PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

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 35



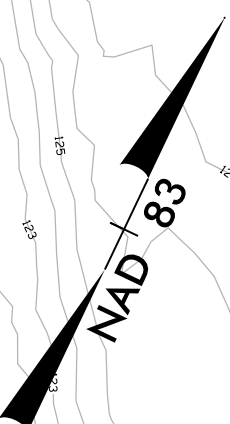
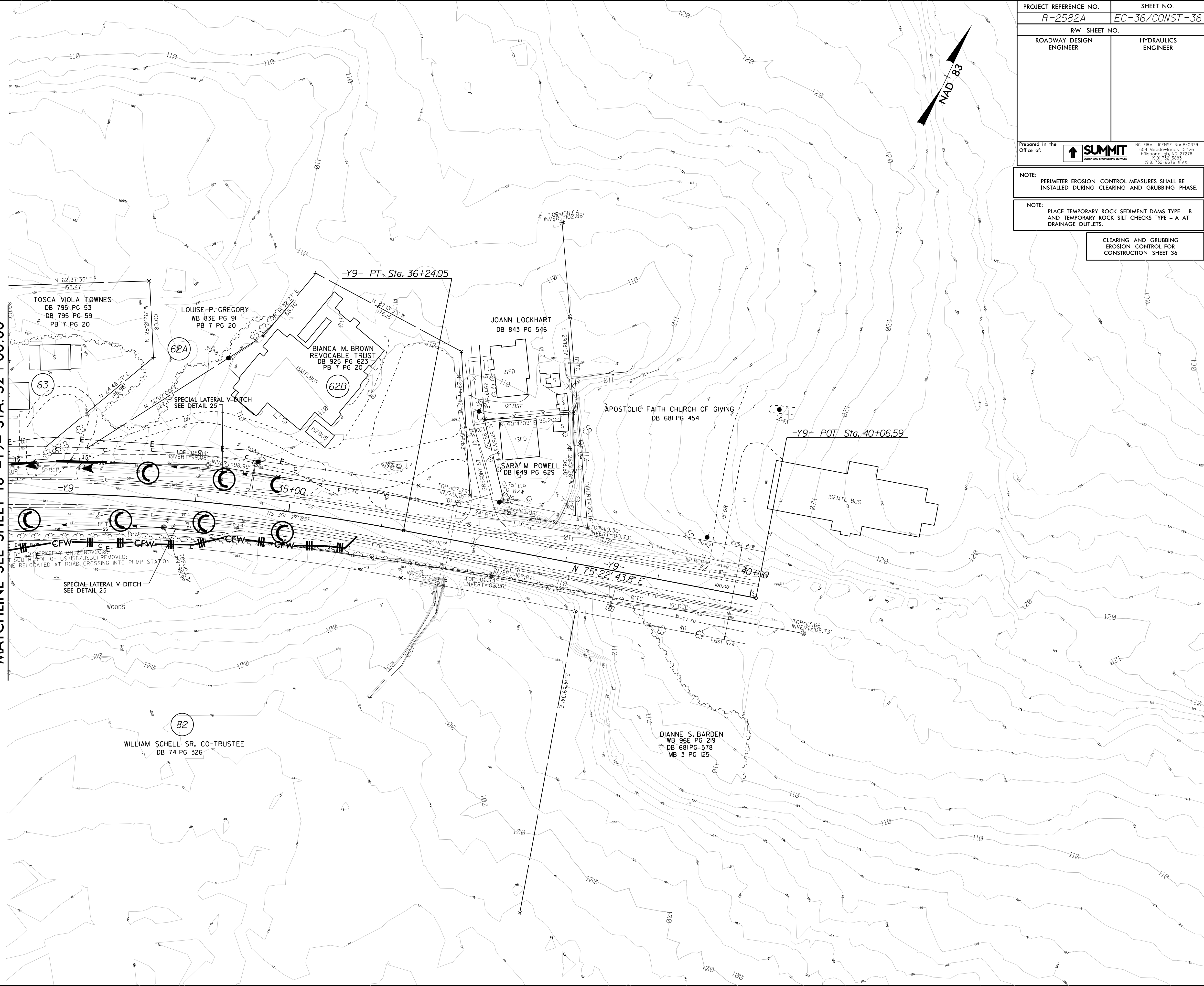
MATCHLINE SEE SHEET 16 -Y9- STA. 18 + 50.00

8/17/99

24-JAN-2009 09:34
R-2582A-EC-36.dgn
L:\PROJECTS\2009\24-JAN-2009\24-JAN-2009.dgn

PROJECT REFERENCE NO. <i>R-2582A</i>	SHEET NO. <i>EC-36/CONST-36</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Prepared in the Office of:	
 SUMMIT <small>DESIGN AND ENGINEERING SERVICES</small>	
<small>NC FIRM LICENSE Nos P-0339 504 Meadowslands Drive Hillsborough, NC 27278 (919) 732-3883 (919) 732-6676 (FAX)</small>	
NOTE: PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.	
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.	
<div style="border: 1px solid black; padding: 2px; text-align: center;"> <small>CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 36</small> </div>	

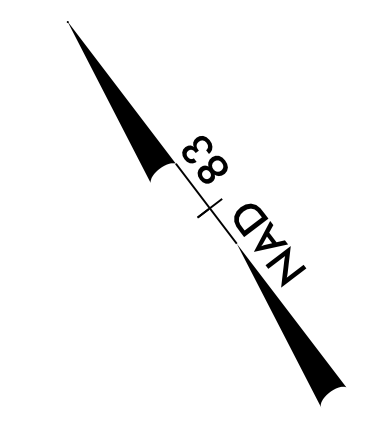
MATCHLINE SEE SHEET 16 -Y9- STA. 32+00.00



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

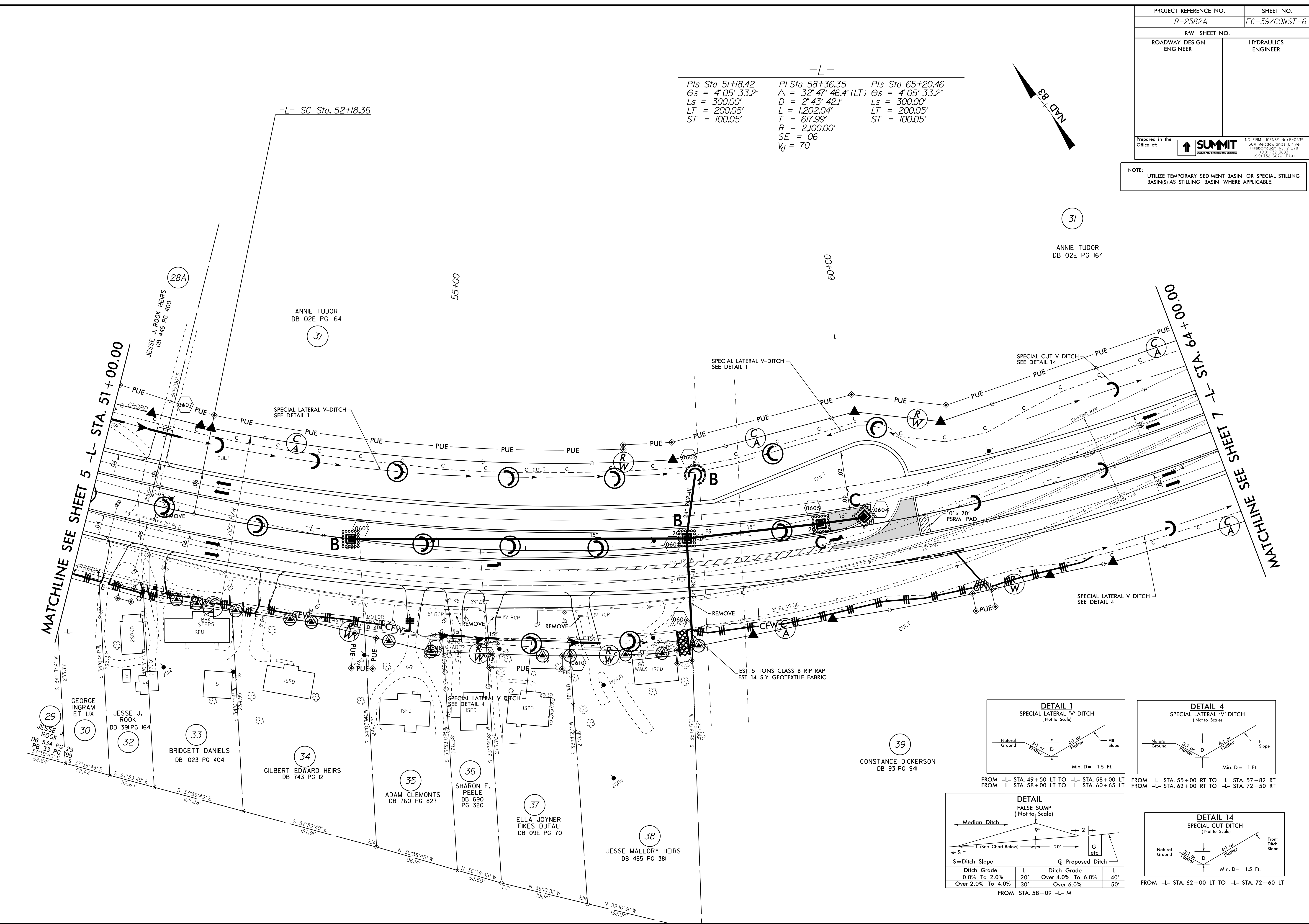
-L-

Pls Sta 51+18.42 Os = 4' 05' 33.2" Ls = 300.00' LT = 200.05' ST = 100.05'	Pls Sta 58+36.35 Δ = 32' 47' 46.4" (LT) D = 2' 43' 42.1" L = 1,202.04' T = 617.99' R = 2,100.00' SE = 06 Vd = 70	Pls Sta 65+20.46 Os = 4' 05' 33.2" Ls = 300.00' LT = 200.05' ST = 100.05'
---	---	---



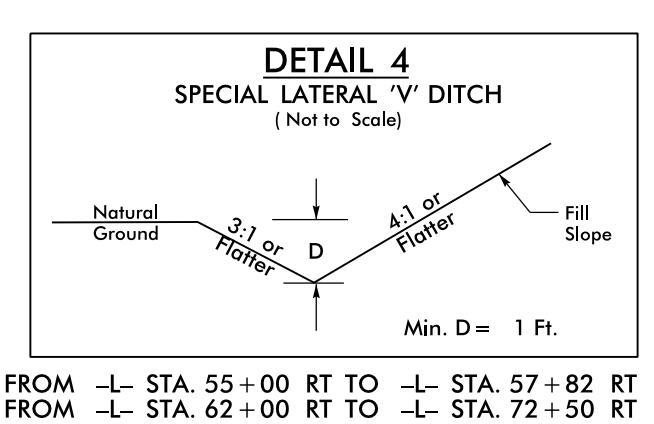
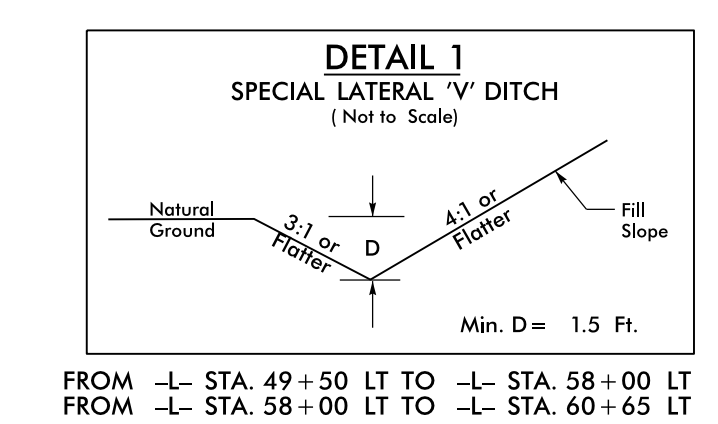
31

ANNIE TUDOR
DB 02E PG 164



MATCHLINE SEE SHEET 5 -L- STA. 51+00.00

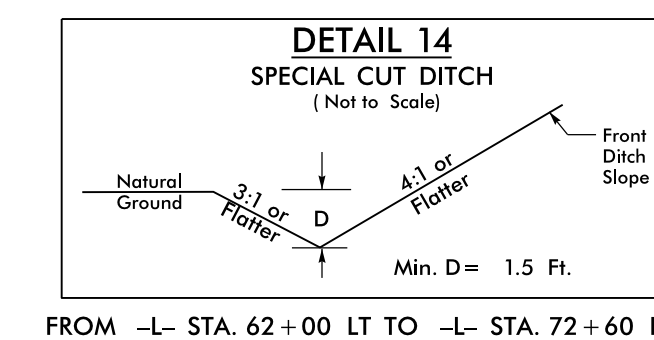
MATCHLINE SEE SHEET 7 -L- STA. 72+60.00



DETAIL
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'

FROM STA. 58+09 -L- M




8/17/99

R4-JAN-2018 09:21:39.dgn
C:\P\31-39.dgn

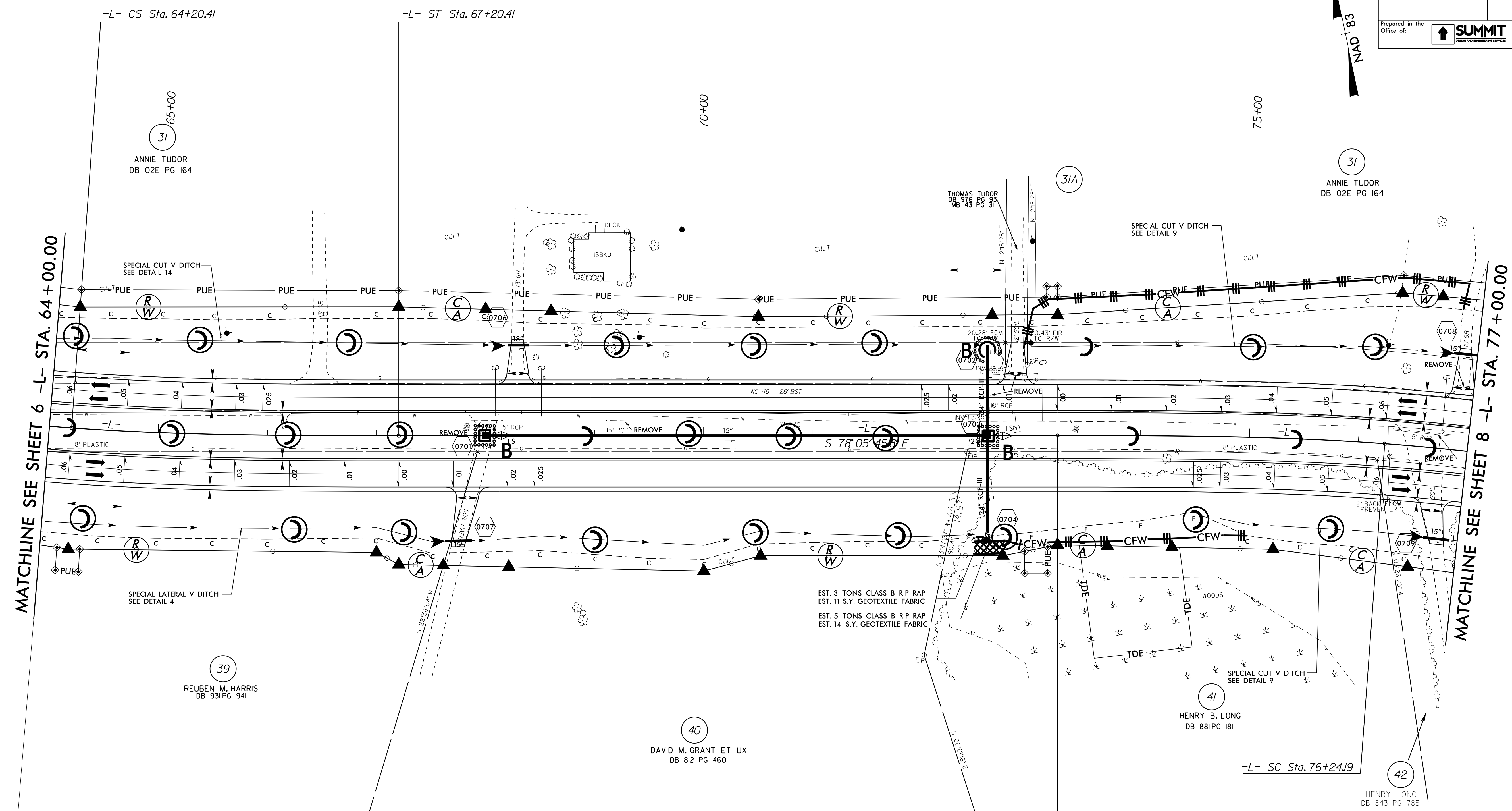
Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

PROJECT REFERENCE NO. R-2582A	SHEET NO. EC-40/CONST-7
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

Prepared in the Office of:

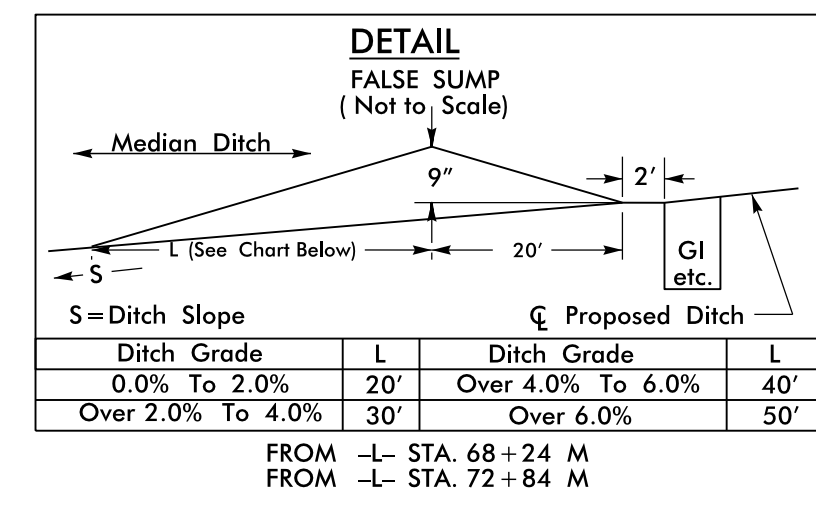
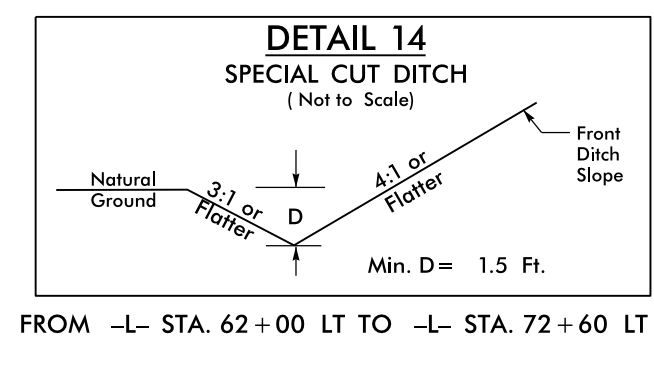
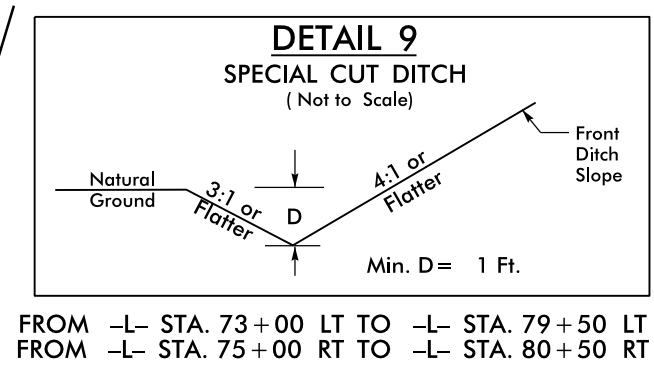
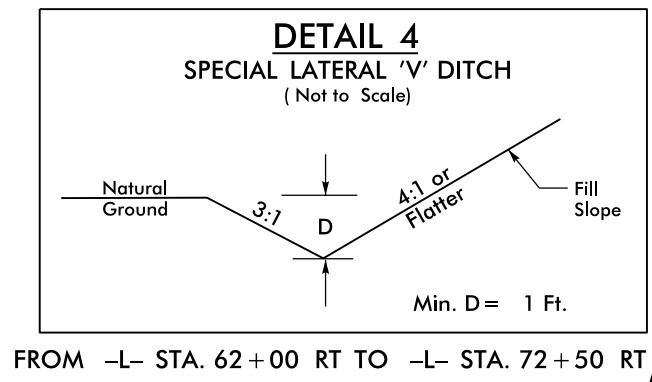


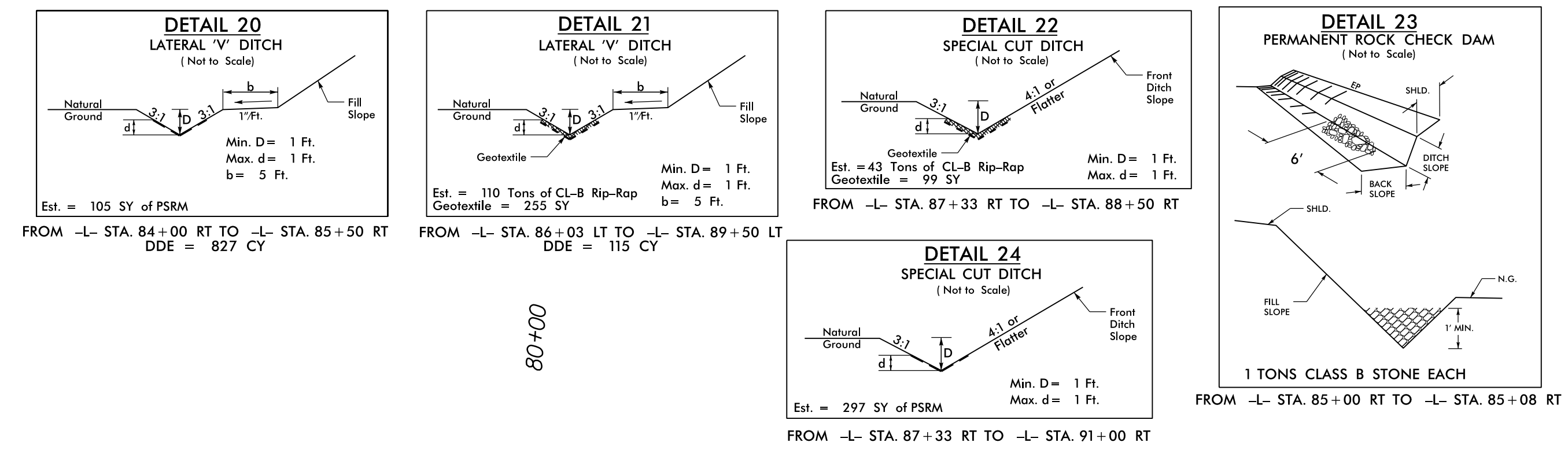
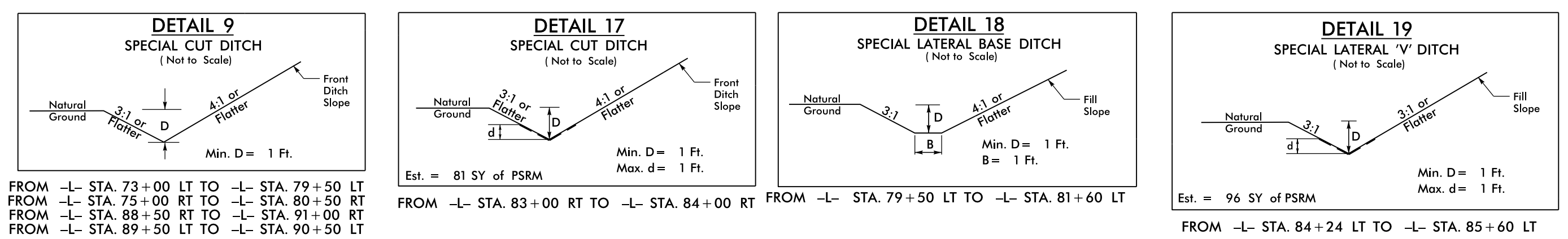
NC FIRM LICENSE Nos P-0339
504 Meadowslands Drive
Hillsborough, NC 27278
(919) 732-3883
(919) 732-6676 (FAX)



MATCHLINE SEE SHEET 6 -L- STA. 64+00.00

MATCHLINE SEE SHEET 8 -L- STA. 77+00.00





DETAIL 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'

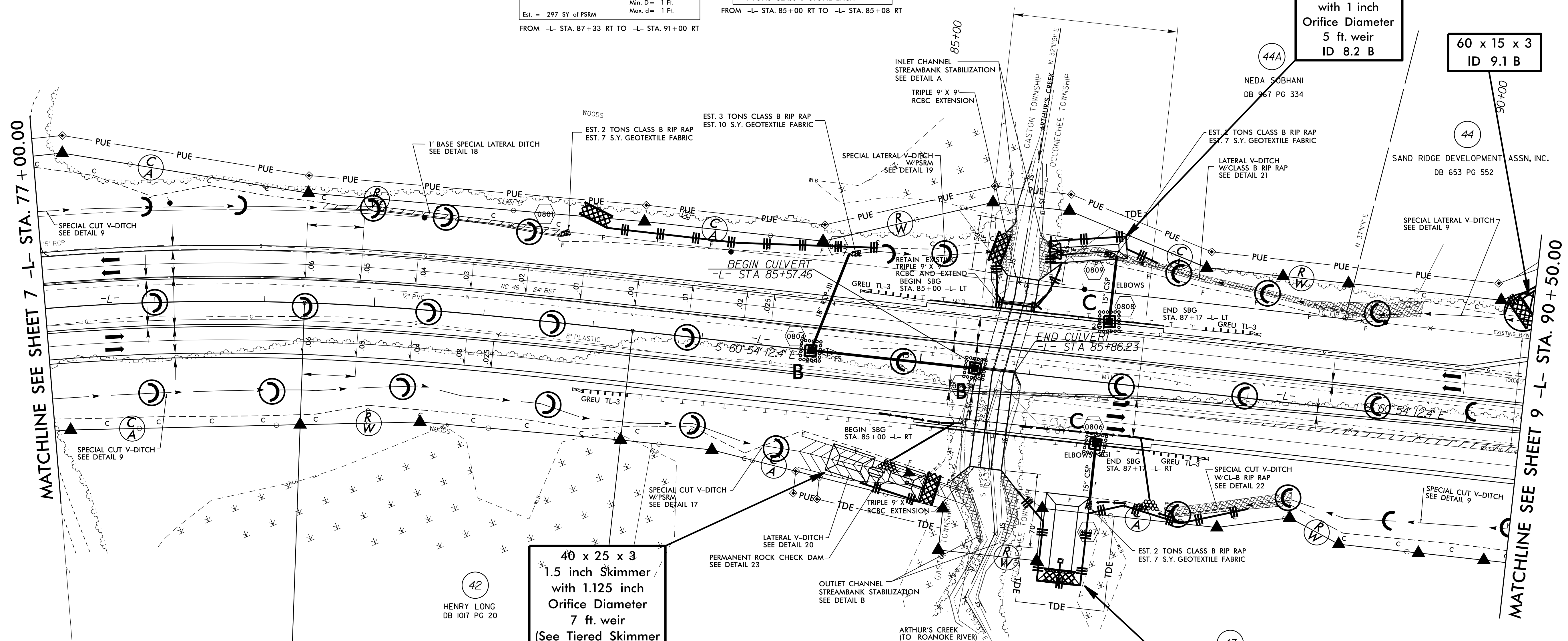
FROM -L- STA. 84+24 M

Place Matting for Erosion Control on Slope as Work Allows. Sta. 86+00 to Sta. 86+50

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

MATCHLINE SEE SHEET 7 -L- STA. 77+00.00

MATCHLINE SEE SHEET 9 -L- STA. 90+50.00



31
ANNIE TUDOR
DB 02E PG 164

80+00

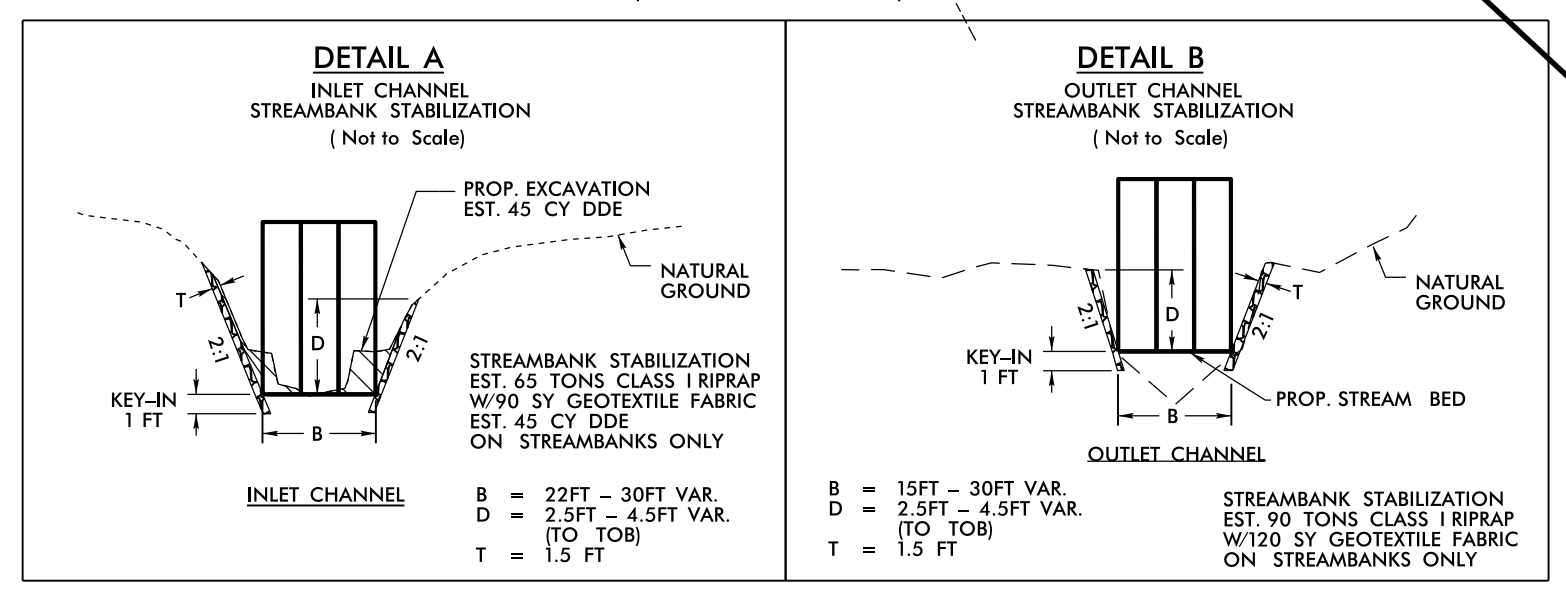
70 x 20 x 3
1.5 inch Skimmer
with 1 inch
Orifice Diameter
5 ft. weir
ID 8.2 B

60 x 15 x 3
ID 9.1 B

40 x 25 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
7 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 8.1 B

43
O. S. SUITER JR
DB 571PG 333

80 x 40 x 3
2 inch Skimmer
with 1.625 inch
Orifice Diameter
11 ft. weir
ID 8.3 B



-L- CS Sta. 79+36.33

-L- ST Sta. 82+36.33

REVISIONS

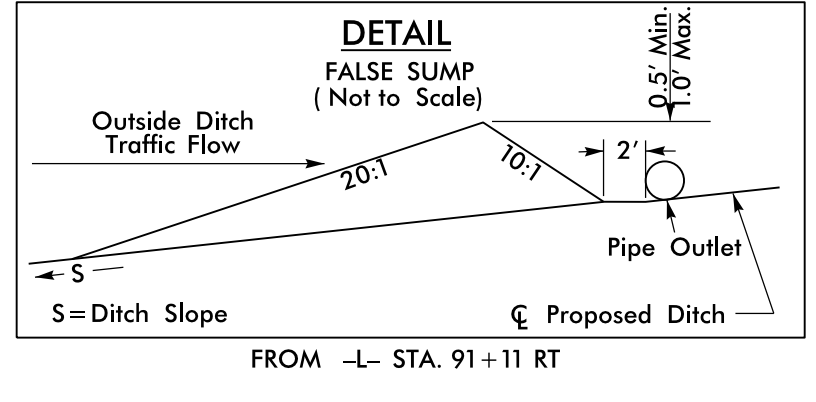
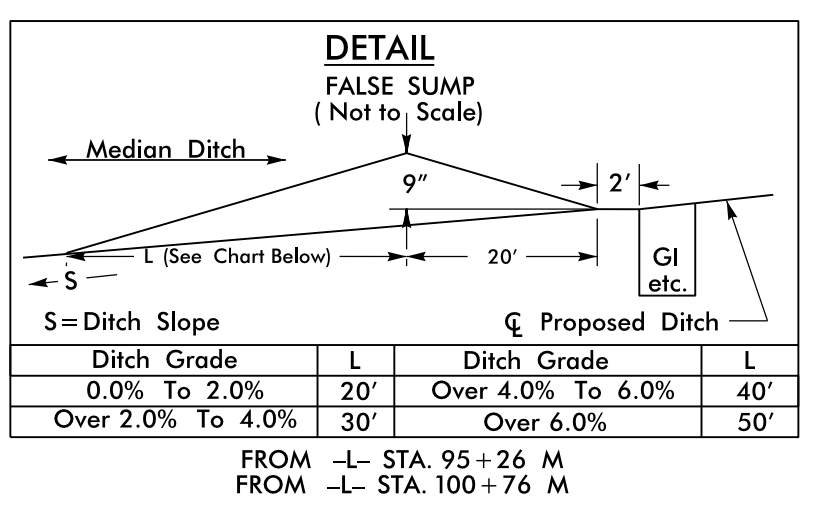
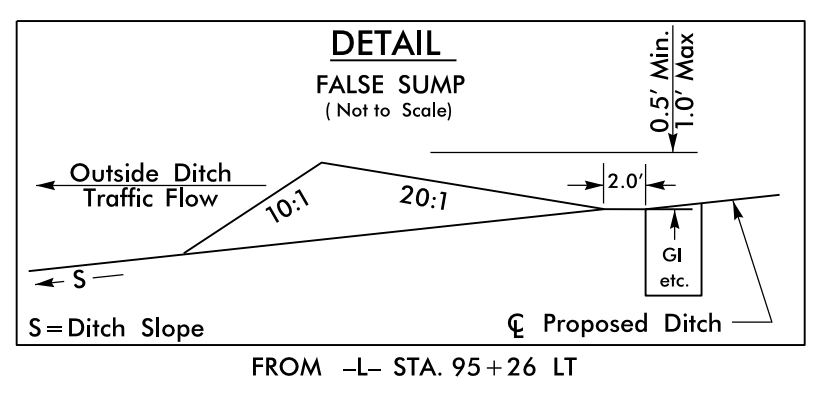
8/17/99

R:\2582A\208 1226 41.dgn

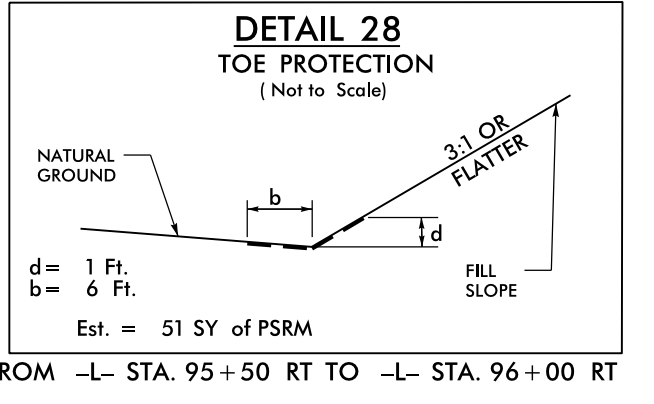
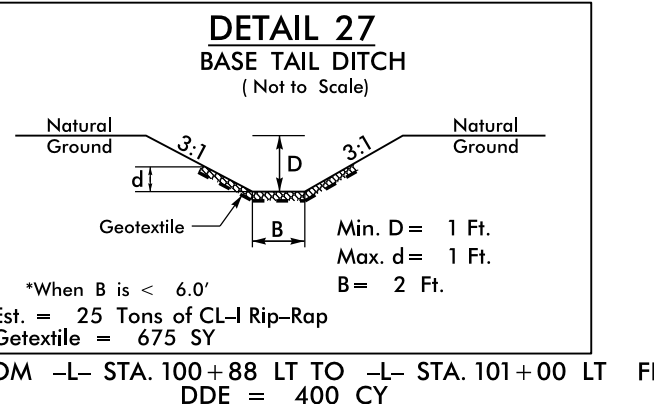
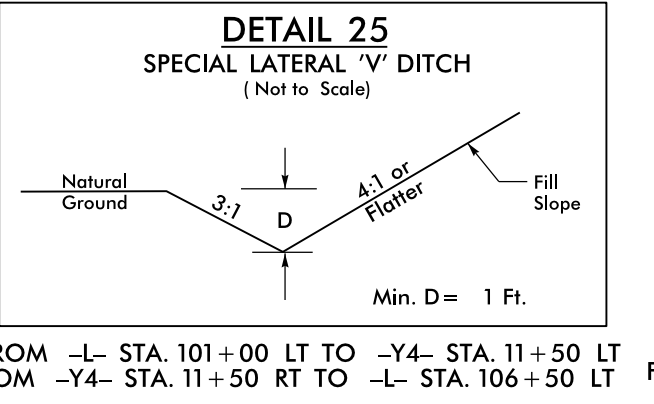
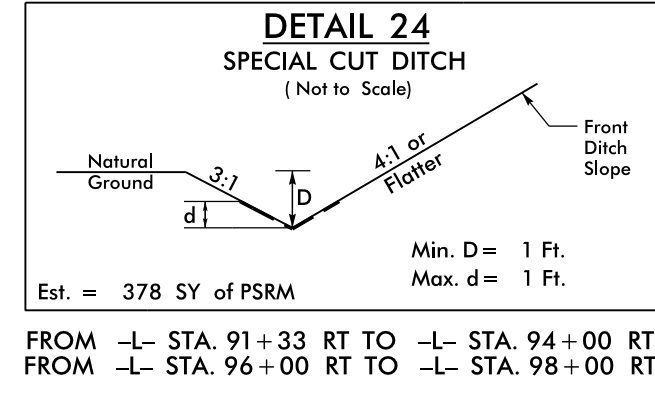
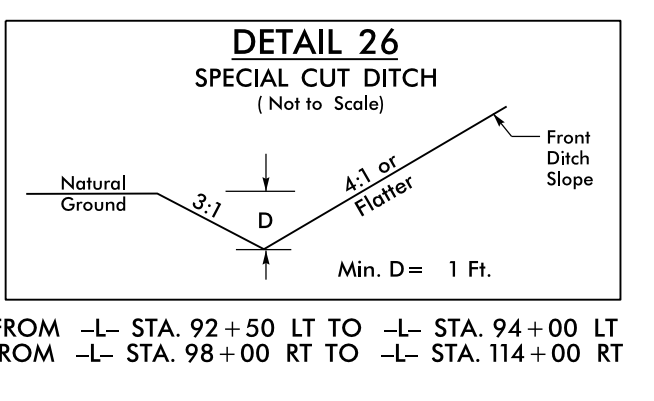
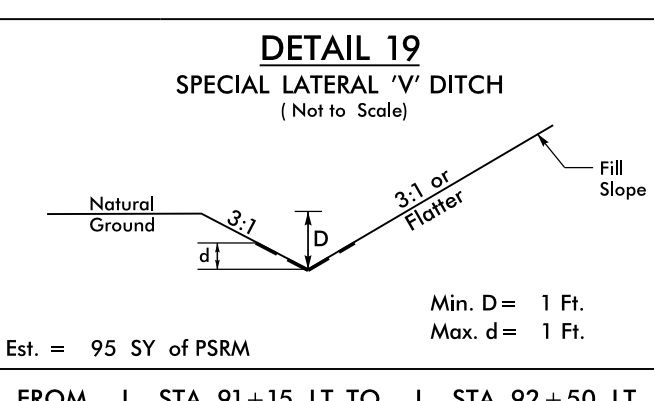
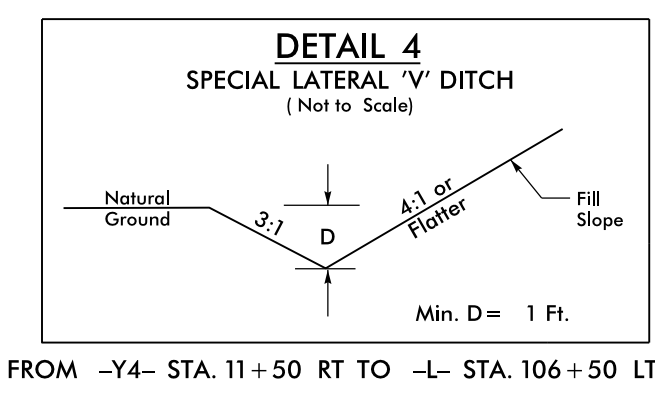
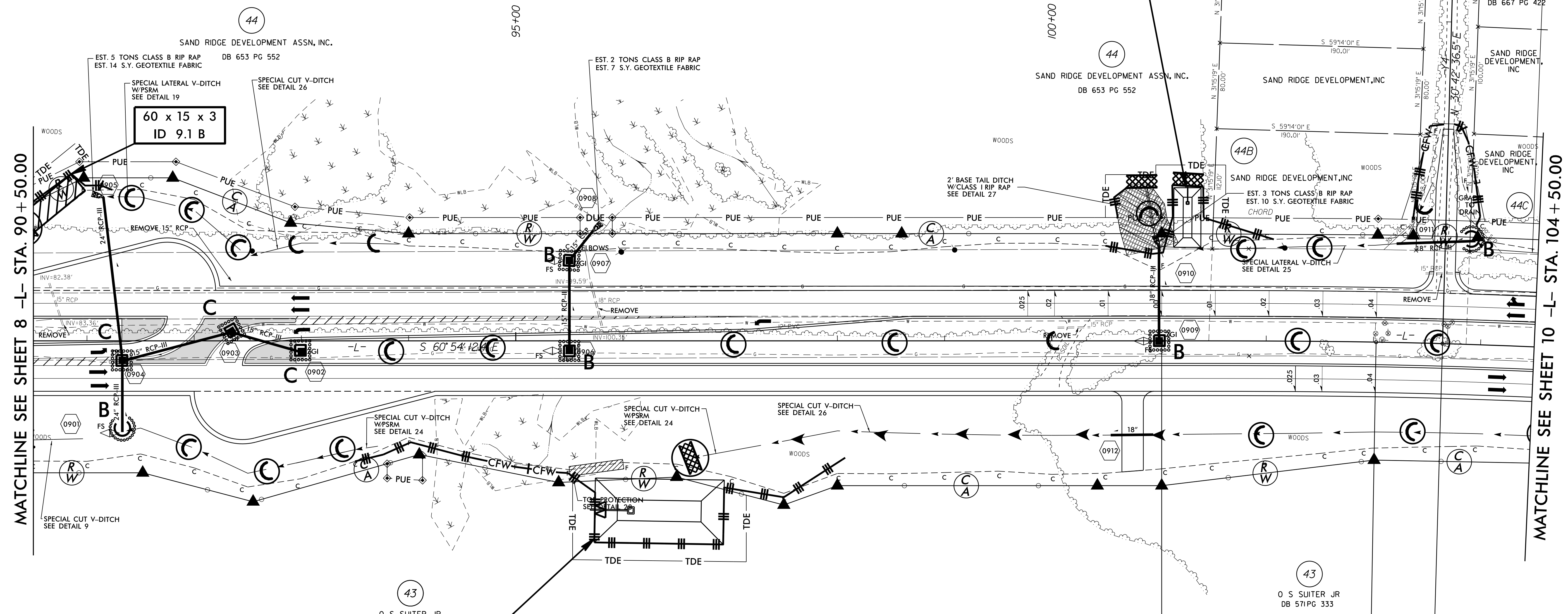
NOTE: UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

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

Prepared in the Office of:
SUMMIT
DESIGN AND ENGINEERING SERVICES
NC FIRM LICENSE Nos P-0339
504 Meadowslands Drive
Hillsborough, NC 27578
(919) 732-3883
fax (919) 732-6676 FAX



50 x 20 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
4 ft. weir
ID 9.3 B



120 x 60 x 3
2.5 inch Skimmer
with 2.25 inch
Orifice Diameter
18 ft. weir
ID 9.2 B

-L- TS Sta. 101+02.50

-L- SC Sta. 103+02.50

-Y4- POT Sta. 10+00.00
-L- POC Sta. 103+64.46

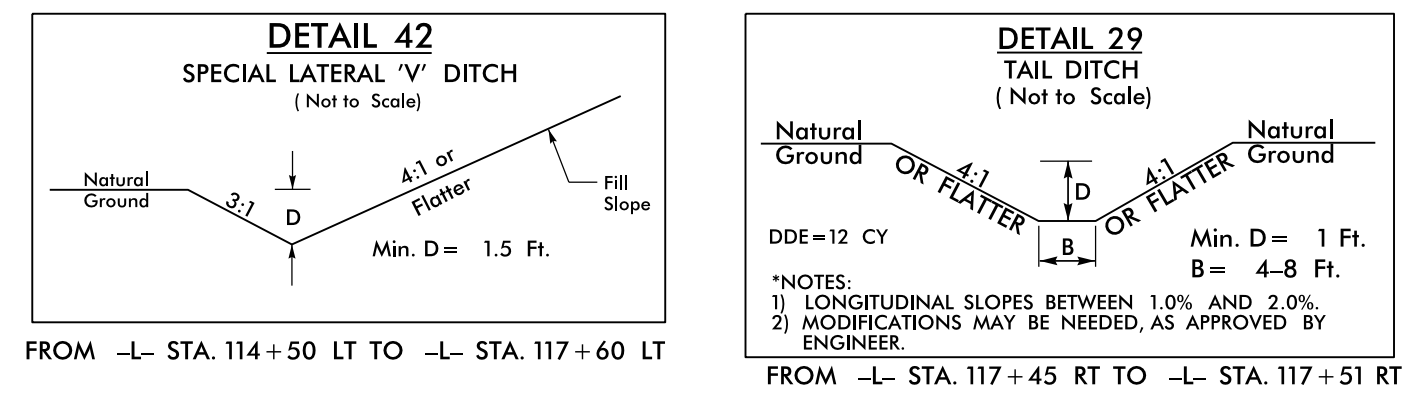
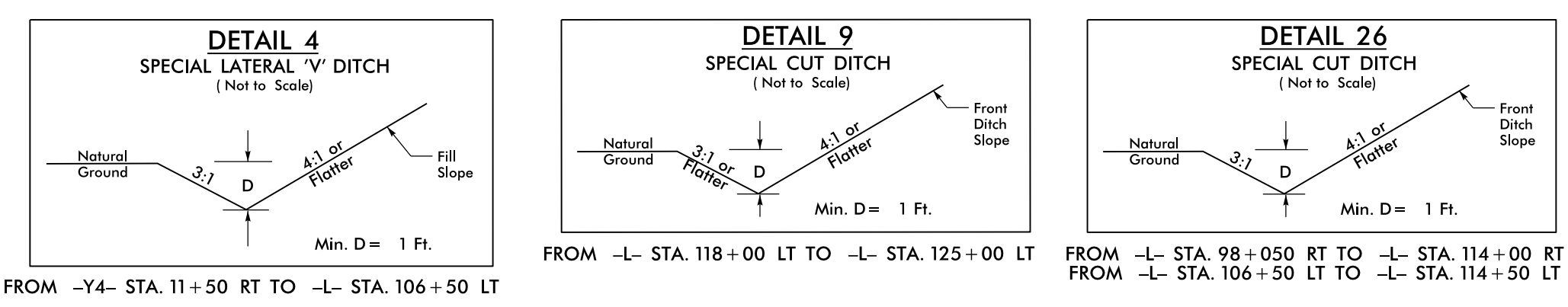
8/17/99

R4-JAN-2009 09:42:34.dgn

PROJECT REFERENCE NO. R-2582A	SHEET NO. EC-43/CONST-10
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

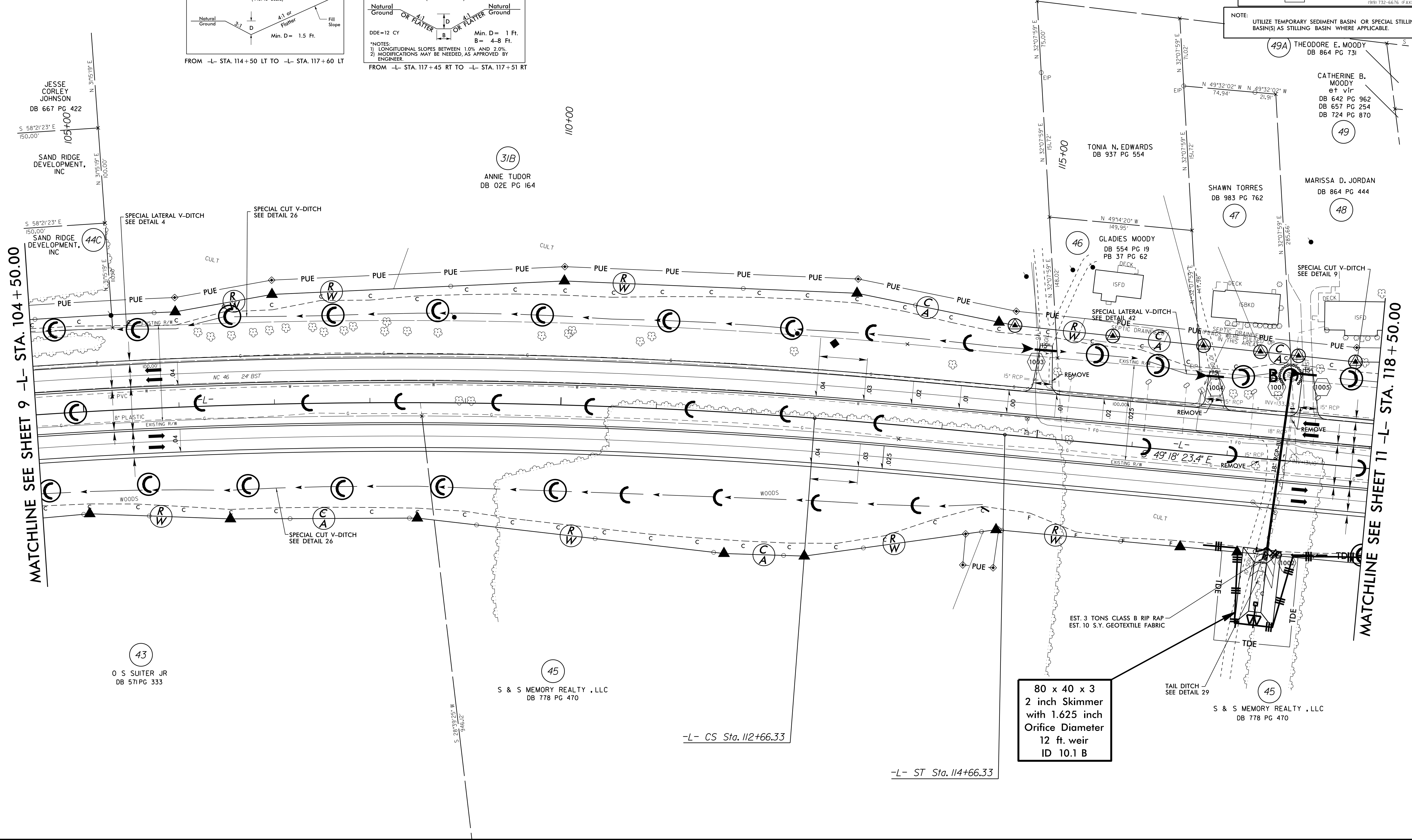
Prepared in the Office of: **SUMMIT** DESIGN AND ENGINEERING SERVICES

NC FIRM LICENSE Nos P-0339
504 Meadowslands Drive
Hillsborough, NC 27578
(919) 732-3883
(919) 732-6676 (FAX)



*NOTES:
1) LONGITUDINAL SLOPES BETWEEN 1.0% AND 2.0%.
2) MODIFICATIONS MAY BE NEEDED, AS APPROVED BY ENGINEER.

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



49A THEODORE E. WOODY
DB 864 PG 731

CATHERINE B. MOODY
et vir
DB 642 PG 962
DB 657 PG 254
DB 724 PG 870

MARISSA D. JORDAN
DB 864 PG 444

SHAWN TORRES
DB 983 PG 762

46 GLADIES MOODY
DB 554 PG 19
PB 37 PG 62

31B ANNIE TUDOR
DB 02E PG 164

JESSE CORLEY JOHNSON
DB 667 PG 422

SAND RIDGE DEVELOPMENT, INC.

43 O S SUITER JR
DB 571 PG 333

45 S & S MEMORY REALTY, LLC
DB 778 PG 470

80 x 40 x 3
2 inch Skimmer
with 1.625 inch
Orifice Diameter
12 ft. weir
ID 10.1 B

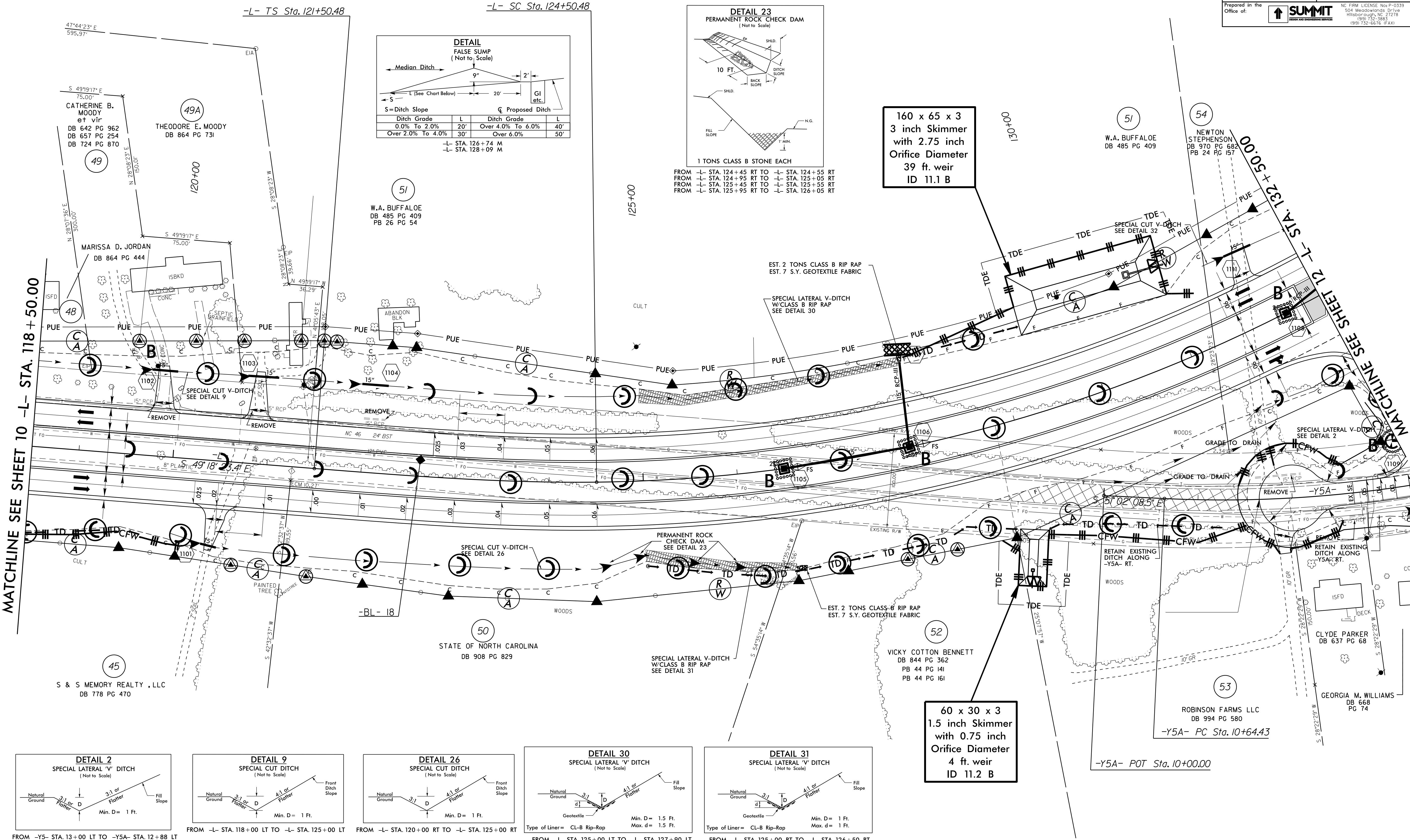
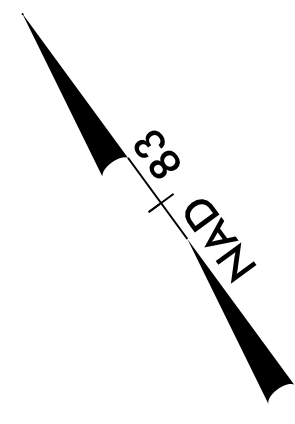
S & S MEMORY REALTY, LLC
DB 778 PG 470

-L- CS Sta. 112+66.33

-L- ST Sta. 114+66.33

MATCHLINE SEE SHEET 9 -L- STA. 104+50.00

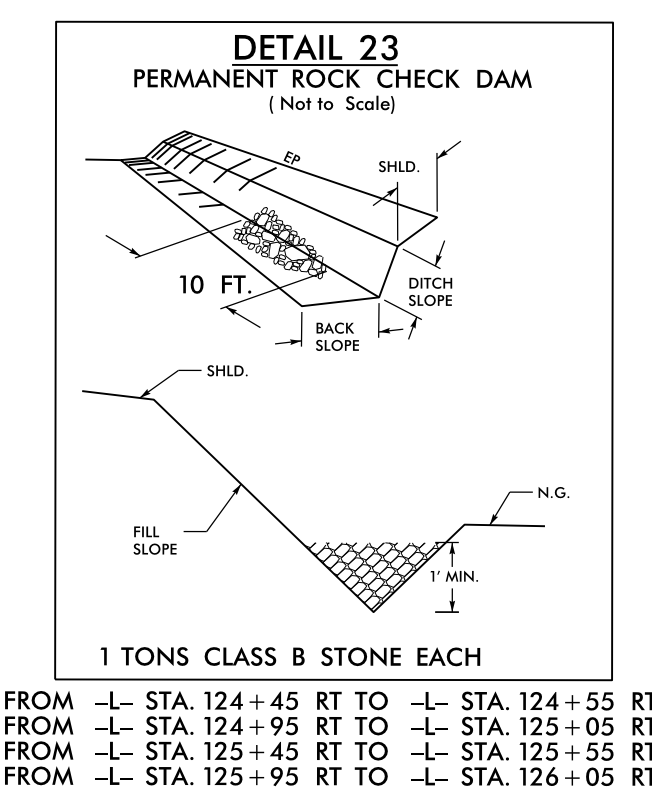
MATCHLINE SEE SHEET 11 -L- STA. 118+50.00



DETAIL FALSE SUMP (Not to Scale)

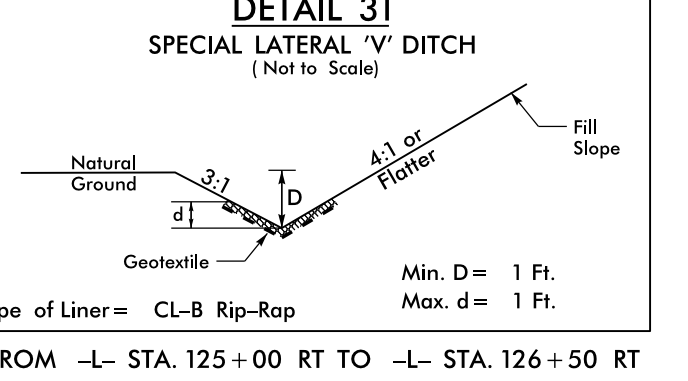
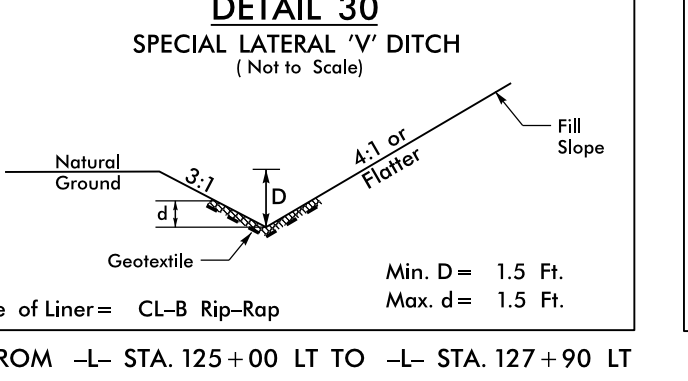
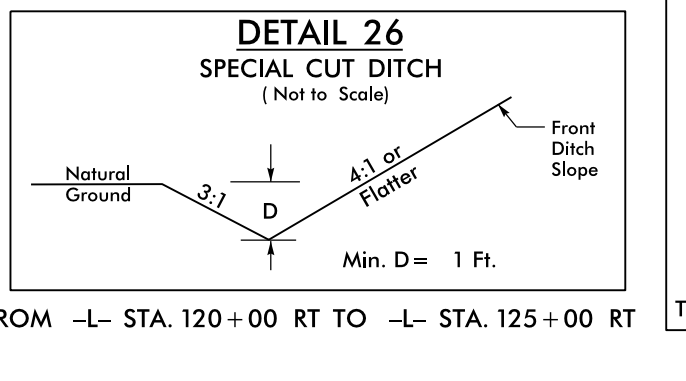
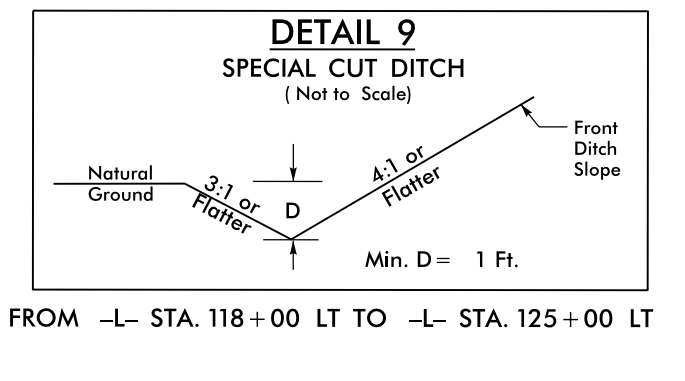
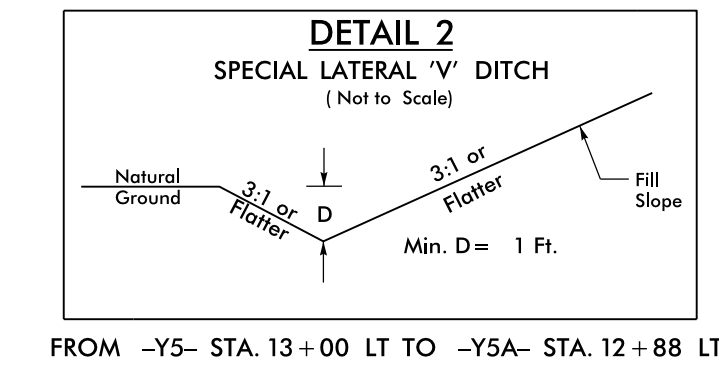
Ditch Grade	L	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'

-L- STA. 126+74 M
 -L- STA. 128+09 M



160 x 65 x 3
3 inch Skimmer
with 2.75 inch
Orifice Diameter
39 ft. weir
ID 11.1 B

60 x 30 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
4 ft. weir
ID 11.2 B



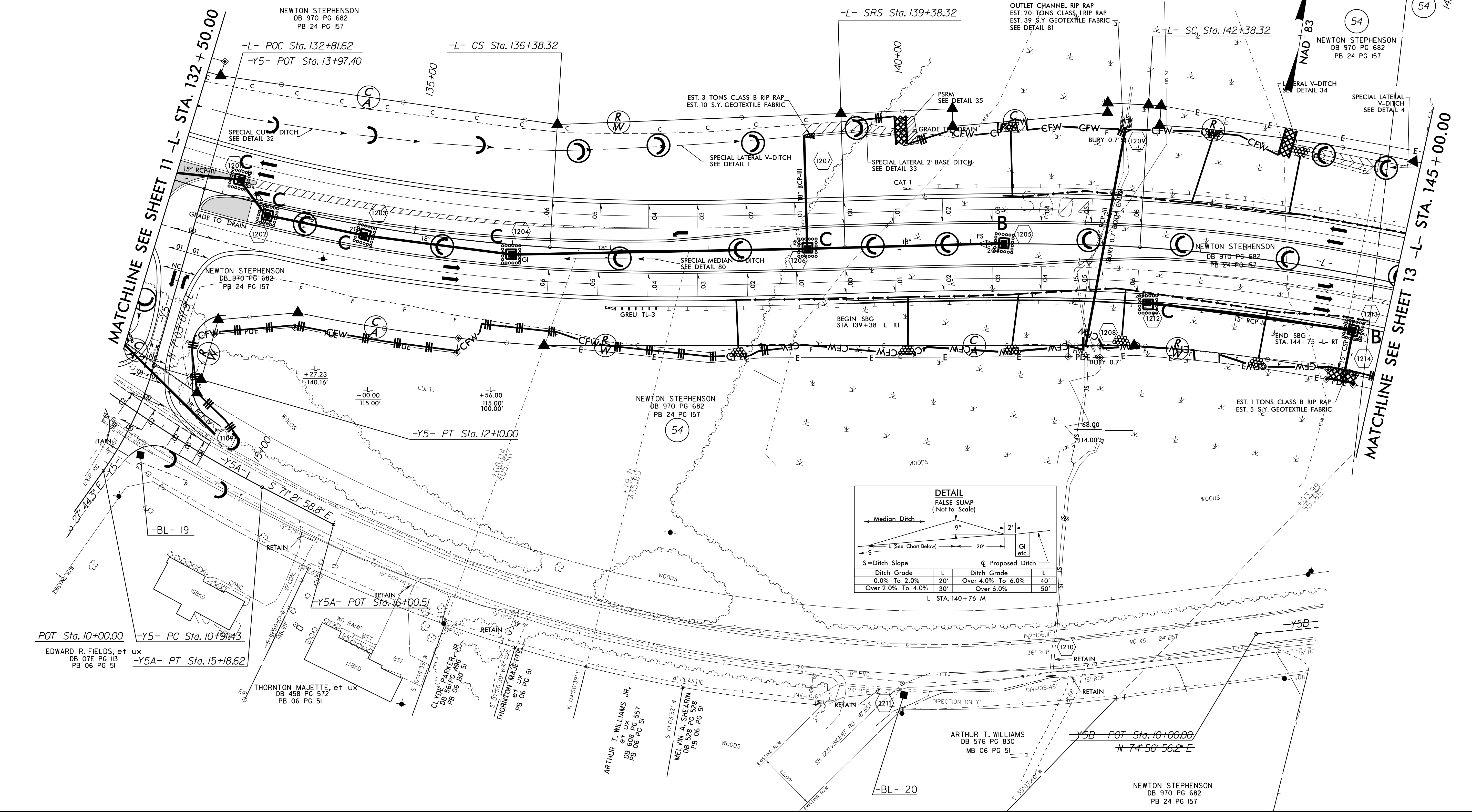
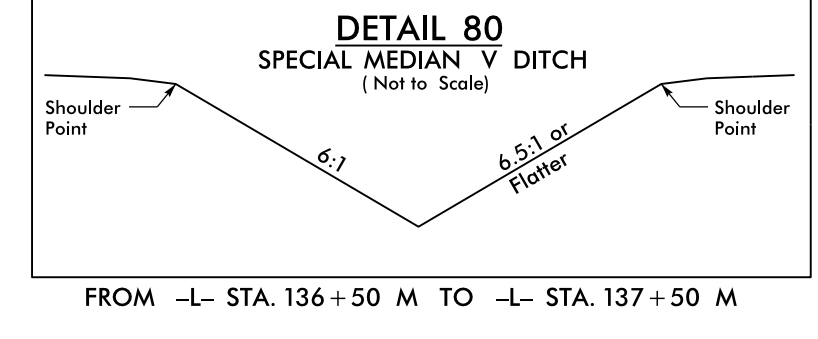
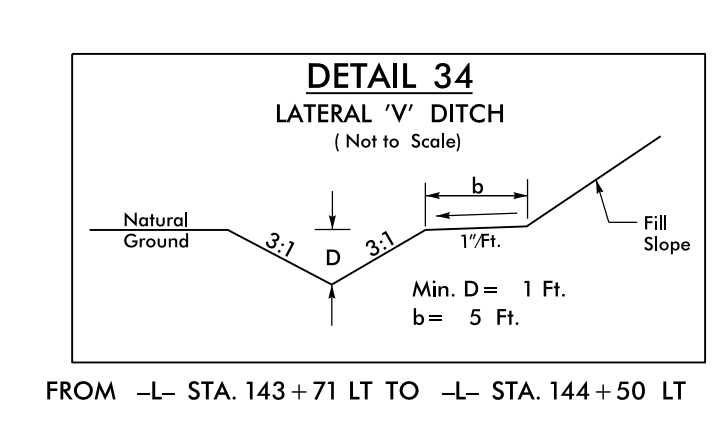
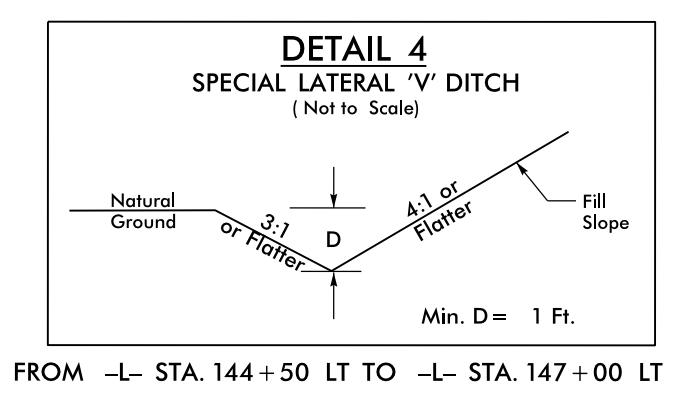
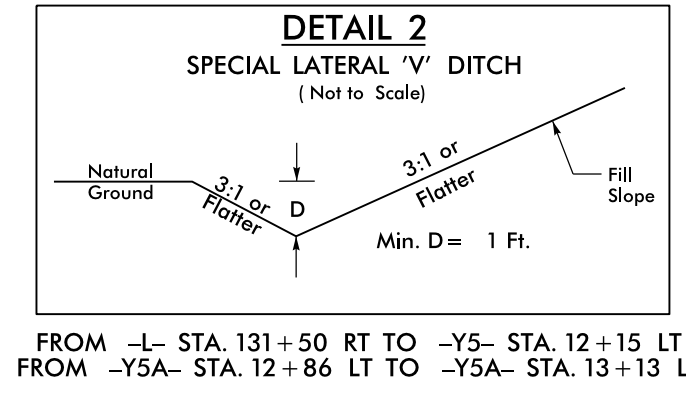
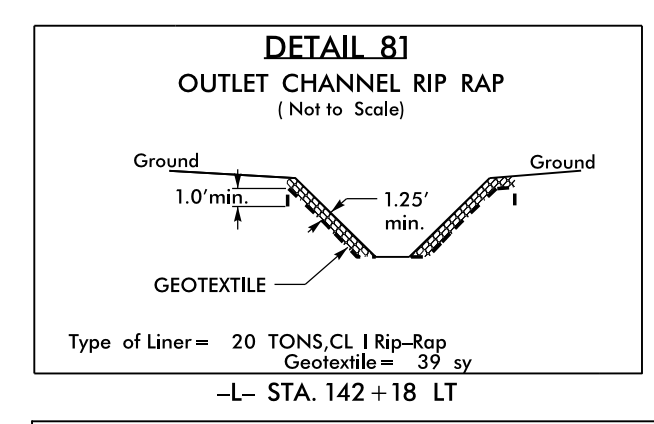
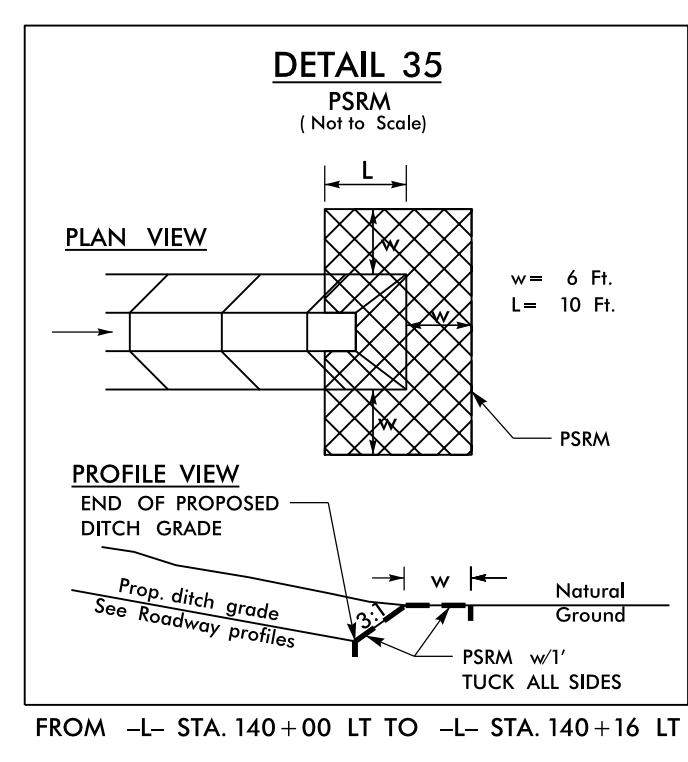
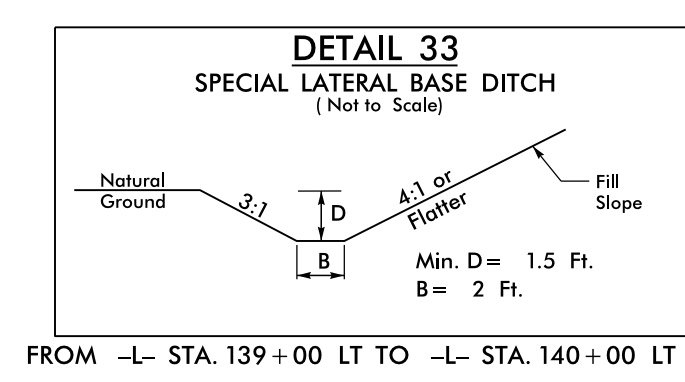
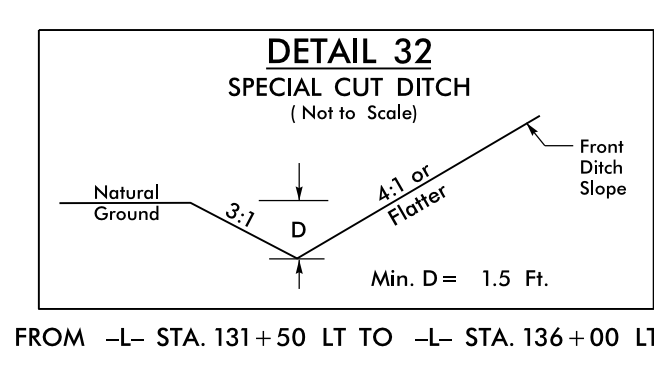
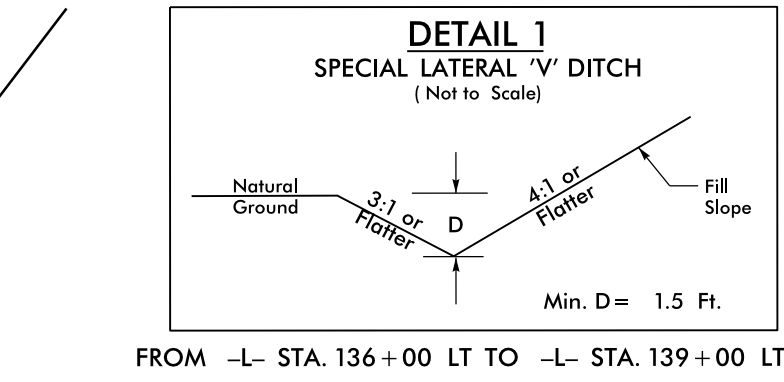
8/17/99

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

Place Matting for Erosion Control on Slope as Work Allows. Sta. 135+90 to Sta. 146+00

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



DETAIL FALSE SUMP (Not to Scale)

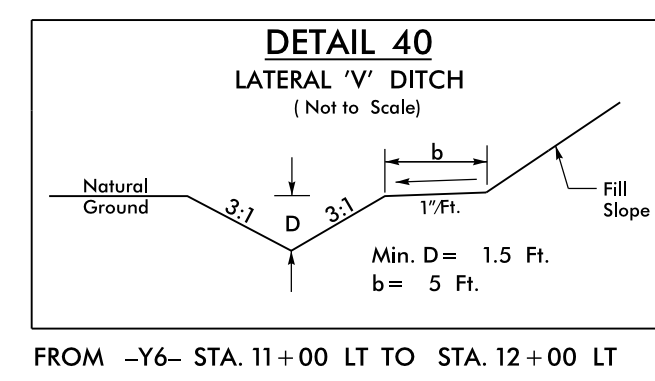
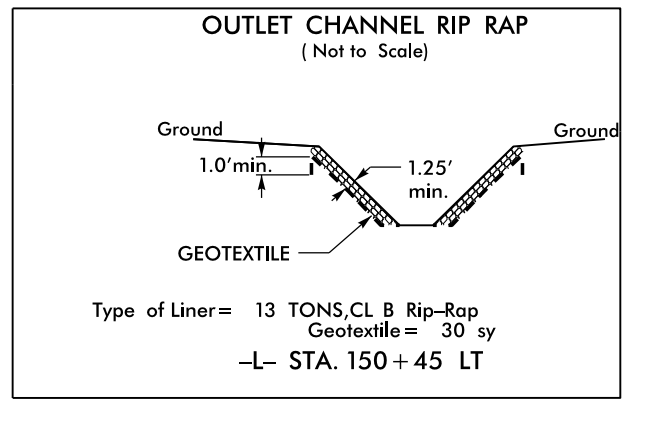
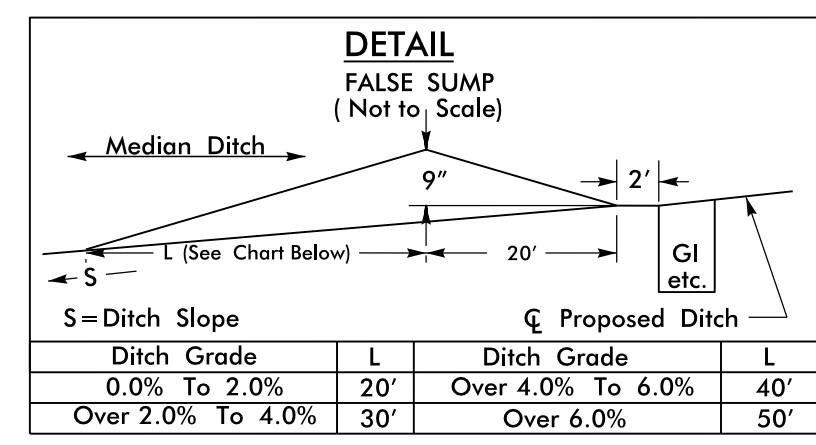
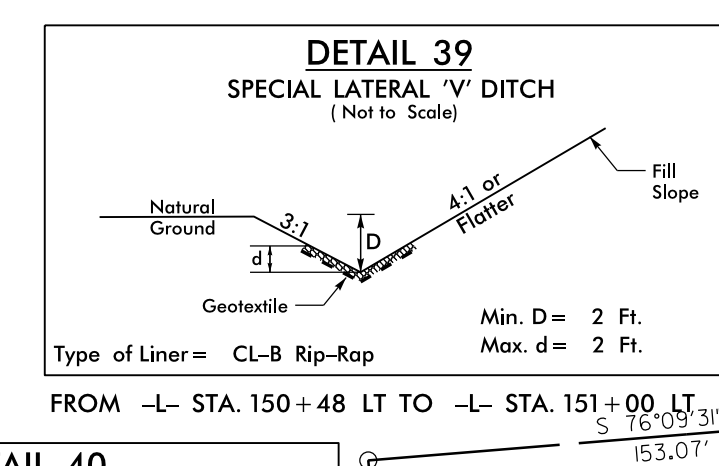
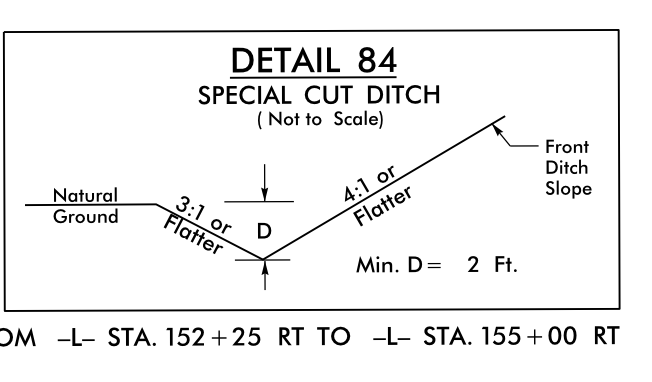
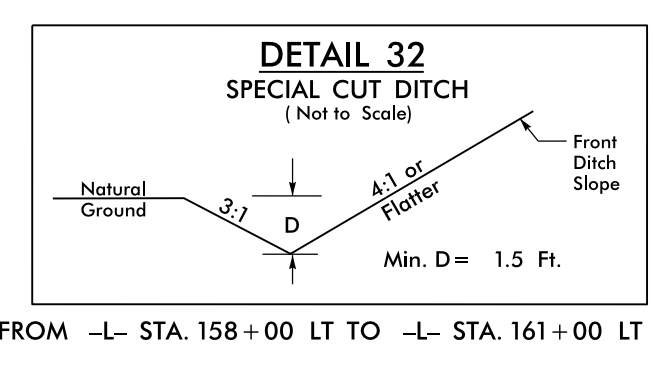
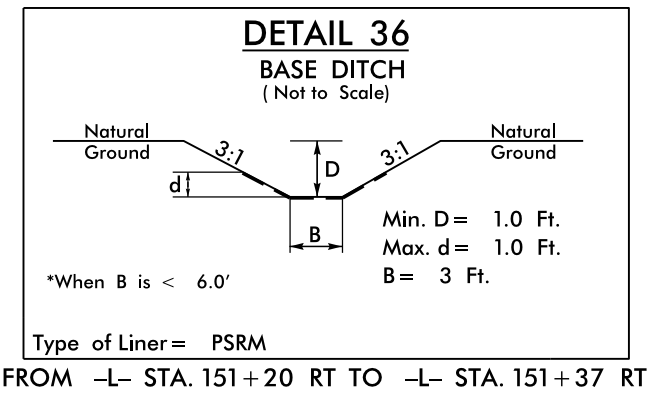
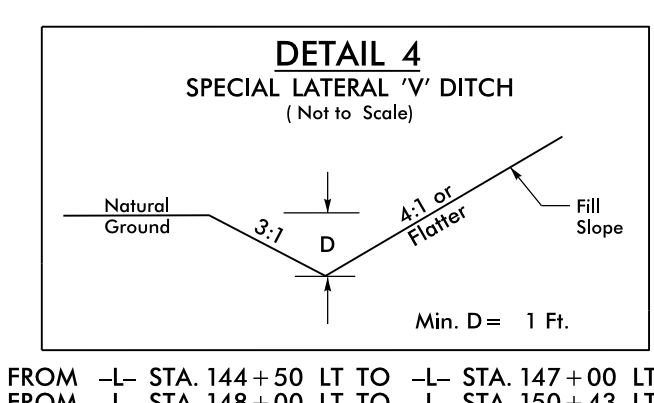
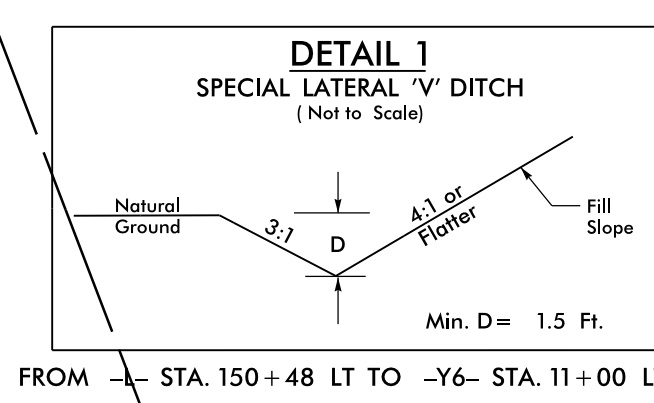
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0.0% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'

-L- STA. 140+76 M

8/17/99

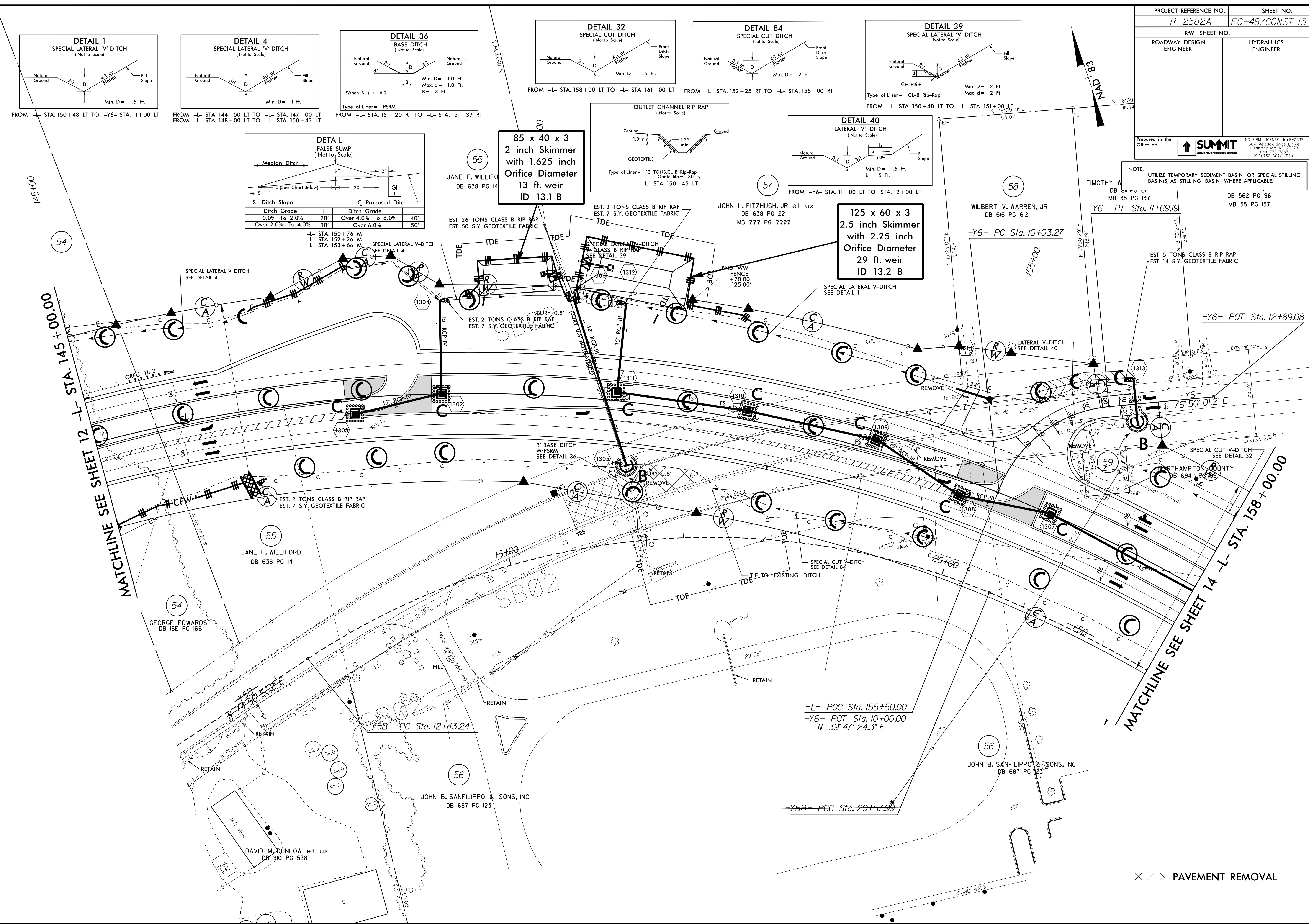
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 JLD/MDP/CLS

8/17/99
 R4-JAN-2008 09:24
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85 x 40 x 3
 2 inch Skimmer
 with 1.625 inch
 Orifice Diameter
 13 ft weir
 ID 13.1 B

125 x 60 x 3
 2.5 inch Skimmer
 with 2.25 inch
 Orifice Diameter
 29 ft weir
 ID 13.2 B



PAVEMENT REMOVAL

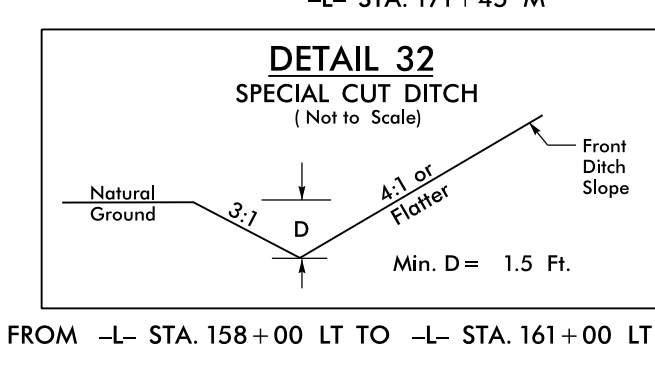
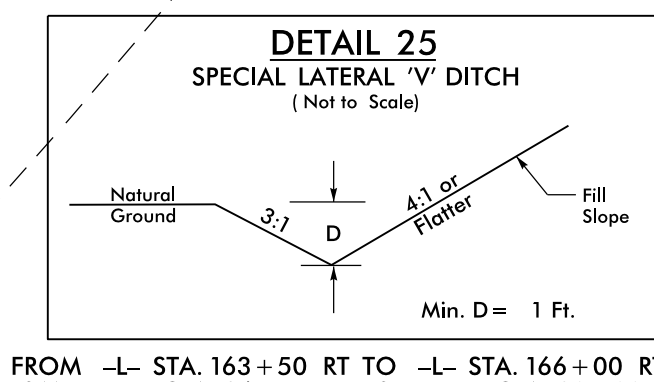
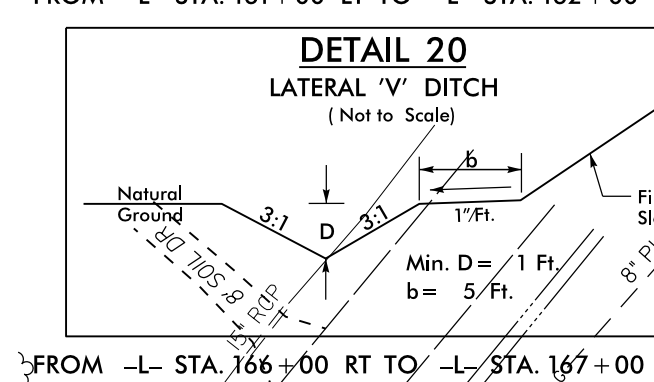
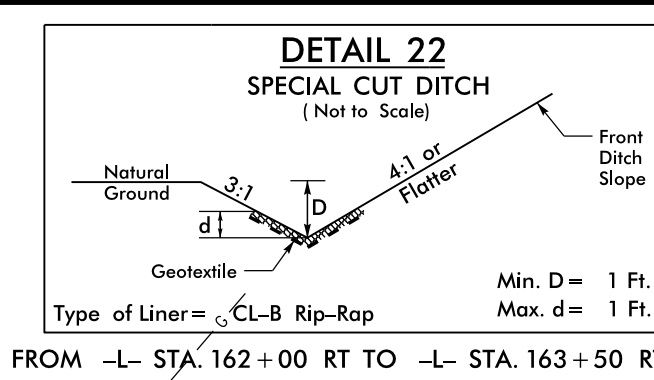
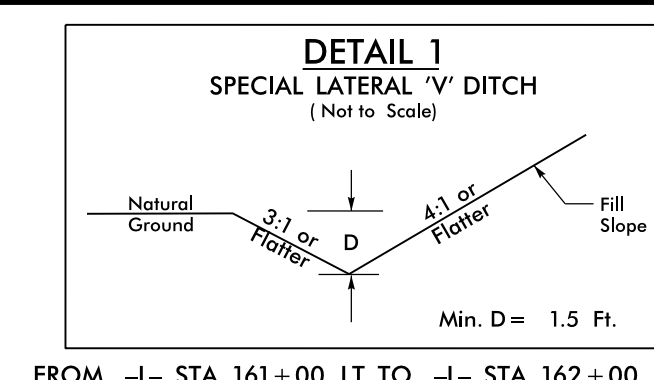
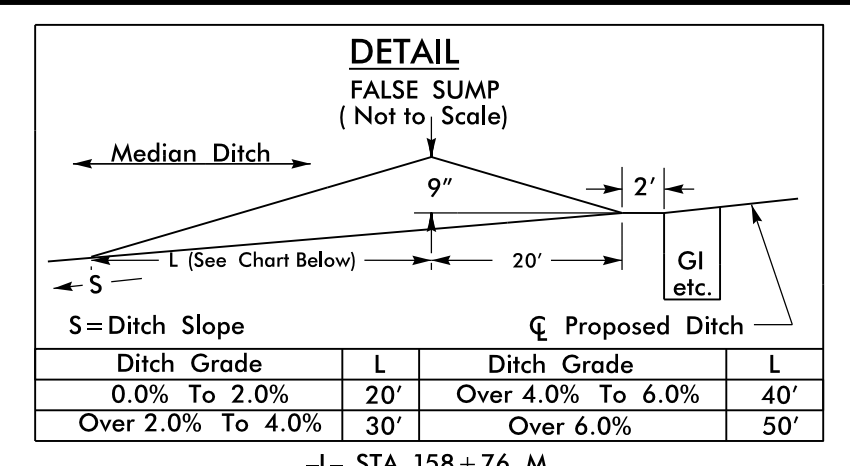
Prepared in the Office of:
SUMMIT
 DESIGN AND ENGINEERING SERVICES
 NC FIRM LICENSE Nos P-0339
 504 Meadowslands Drive
 Hillsborough, NC 27278
 (919) 732-3883
 (919) 732-6676 (FAX)

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

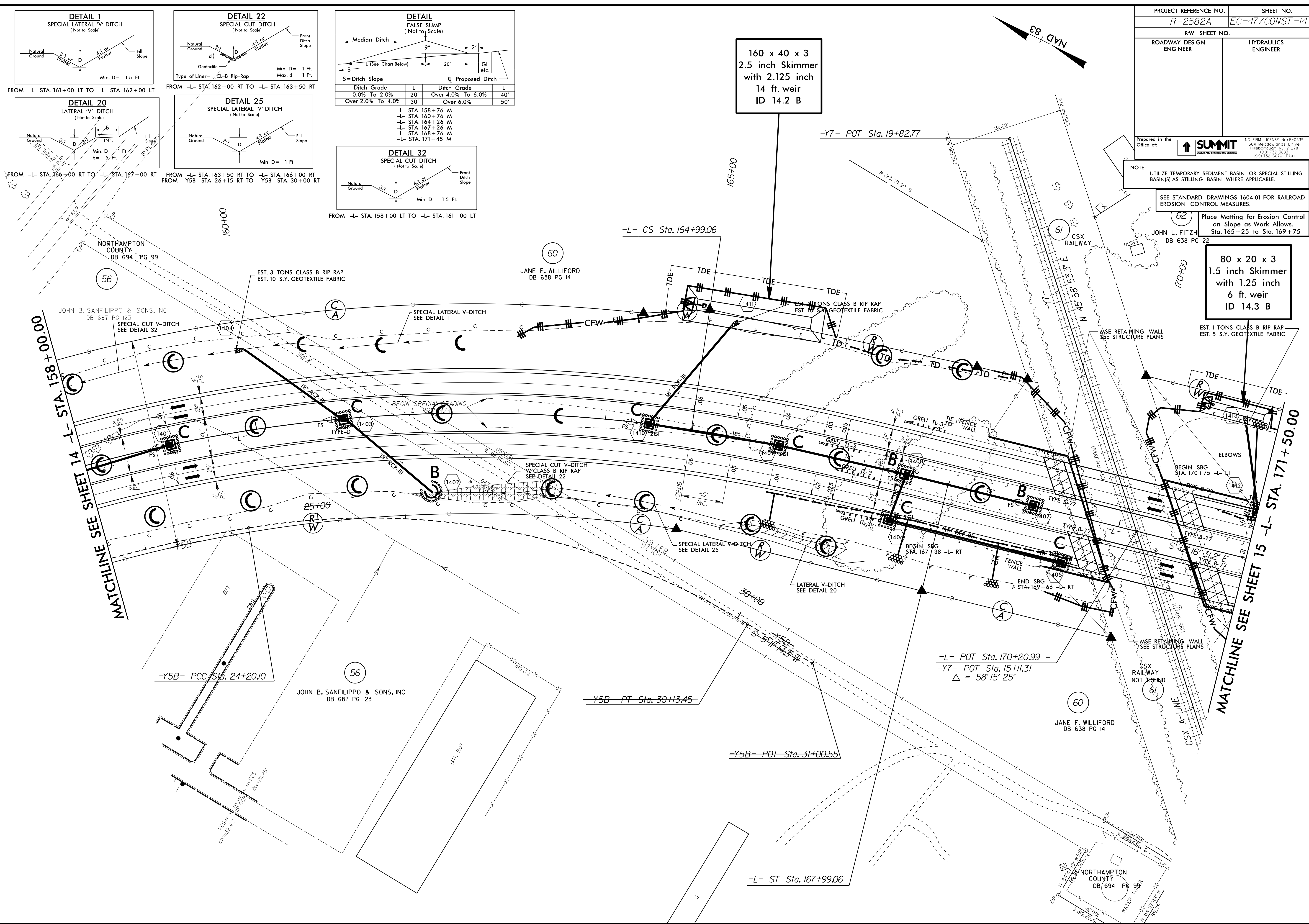
SEE STANDARD DRAWINGS 1604.01 FOR RAILROAD EROSION CONTROL MEASURES.

Place Matting for Erosion Control on Slope as Work Allows.
 Sta. 165+25 to Sta. 169+75
 JOHN L. FITZ
 DB 638 PG 22

80 x 20 x 3
 1.5 inch Skimmer
 with 1.25 inch
 6 ft. weir
 ID 14.3 B



160 x 40 x 3
 2.5 inch Skimmer
 with 2.125 inch
 14 ft. weir
 ID 14.2 B



8/17/99

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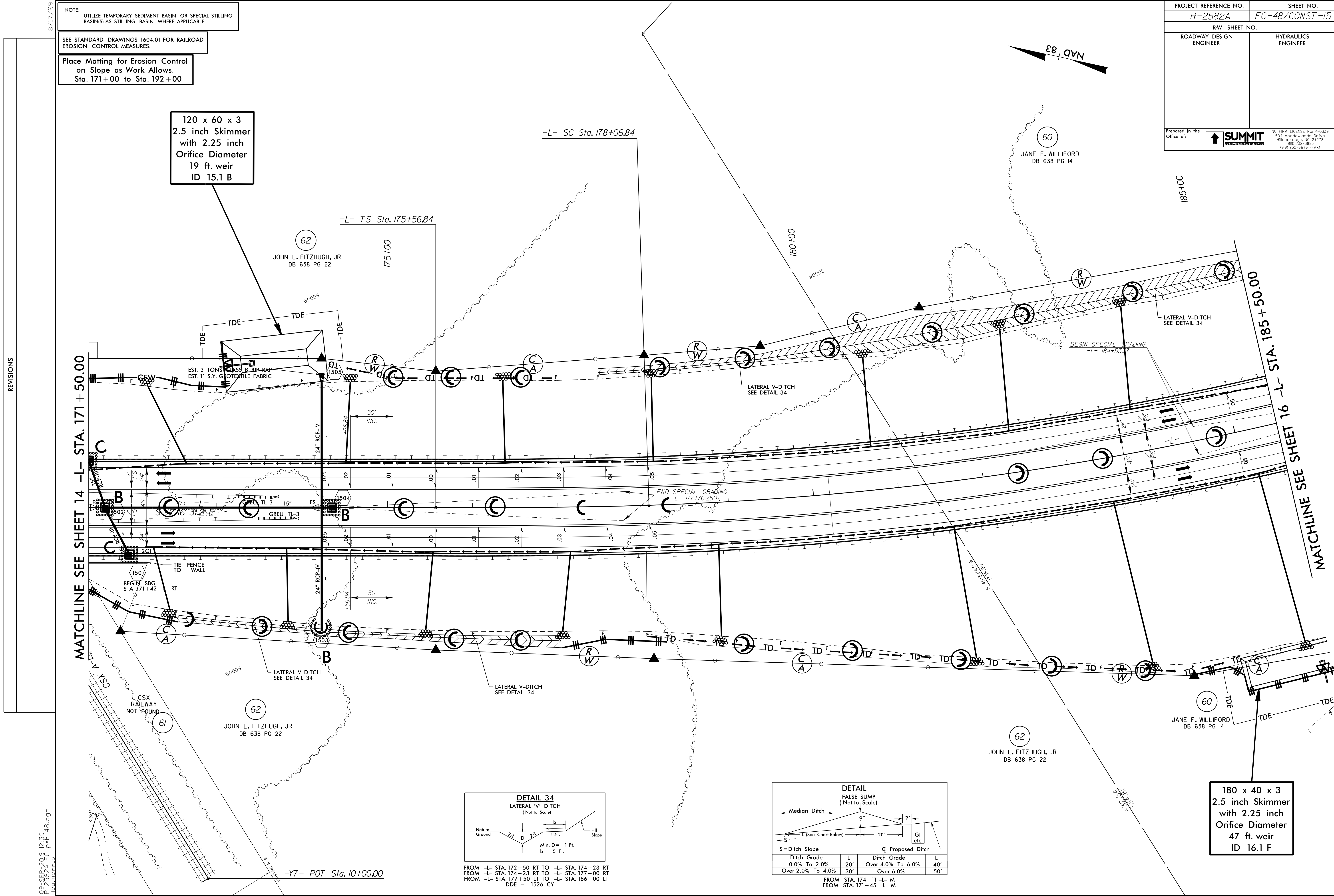
NOTE:
UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

SEE STANDARD DRAWINGS 1604.01 FOR RAILROAD EROSION CONTROL MEASURES.

Place Matting for Erosion Control on Slope as Work Allows.
Sta. 171+00 to Sta. 192+00

120 x 60 x 3
2.5 inch Skimmer
with 2.25 inch
Orifice Diameter
19 ft. weir
ID 15.1 B

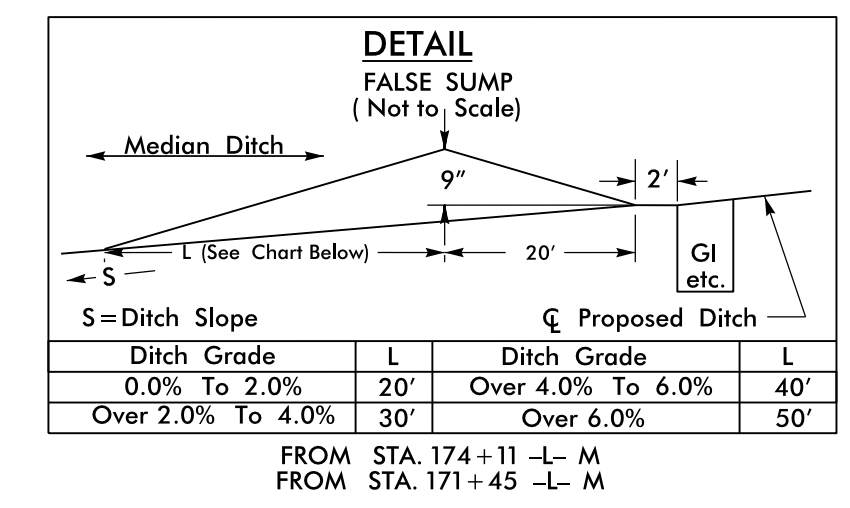
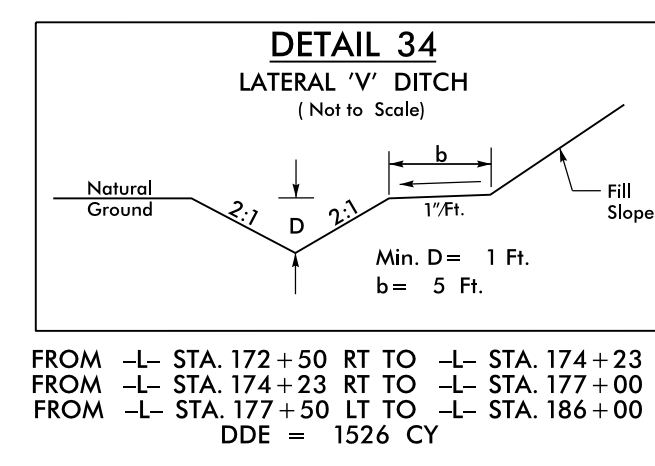
180 x 40 x 3
2.5 inch Skimmer
with 2.25 inch
Orifice Diameter
47 ft. weir
ID 16.1 F



REVISIONS

MATCHLINE SEE SHEET 14 -L- STA. 171+50.00


MATCHLINE SEE SHEET 16 -L- STA. 185+50.00

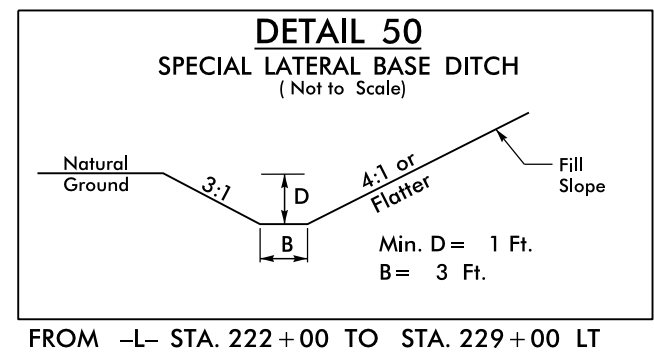
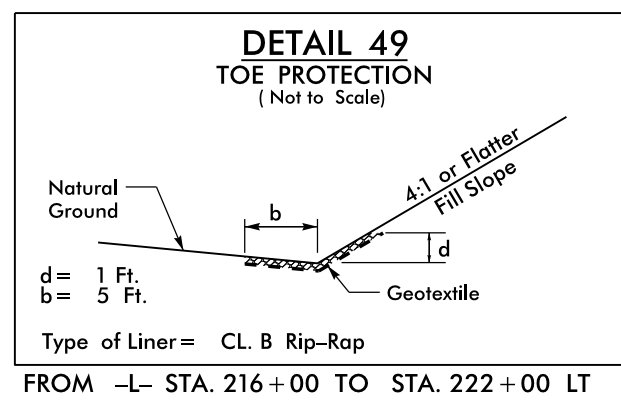


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8/17/99

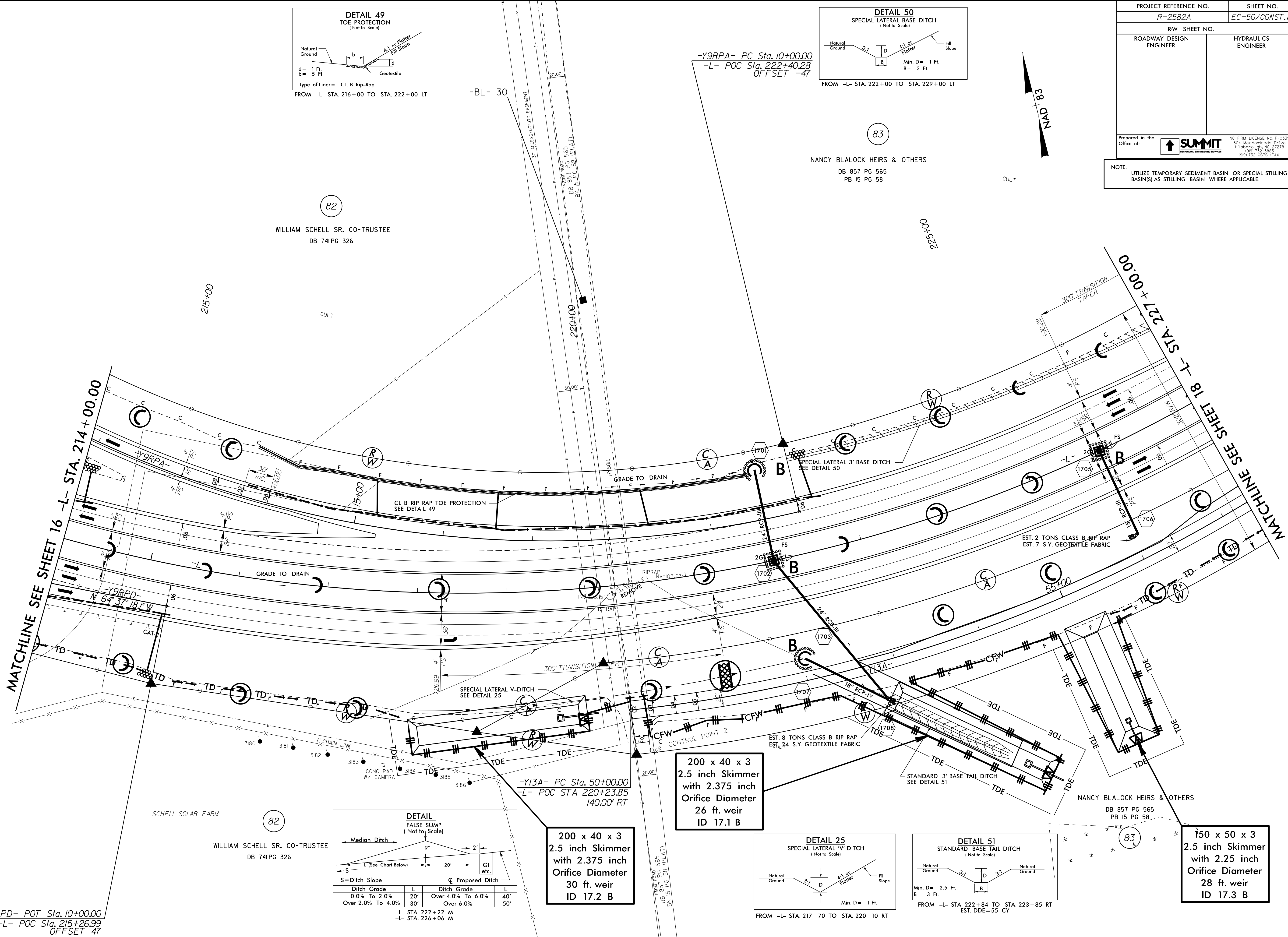
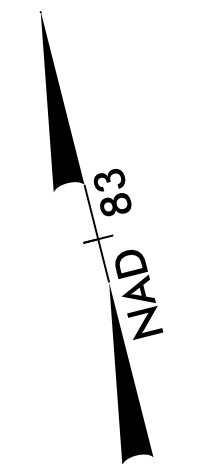
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PROJECT REFERENCE NO. R-2582A	SHEET NO. EC-50/CONST.17
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Prepared in the Office of:	
	
<small>NC FIRM LICENSE Nos P-0339 504 Meadowslands Drive Hillsborough, NC 27278 (919) 732-3883 (919) 732-6676 (FAX)</small>	
NOTE: UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.	

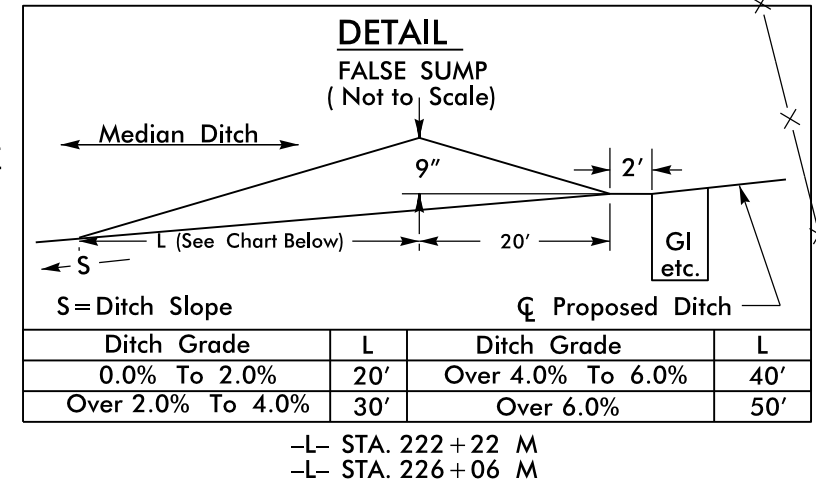


83

NANCY BLALOCK HEIRS & OTHERS
DB 857 PG 565
PB 15 PG 58



DETAIL
FALSE SUMP
(Not to Scale)

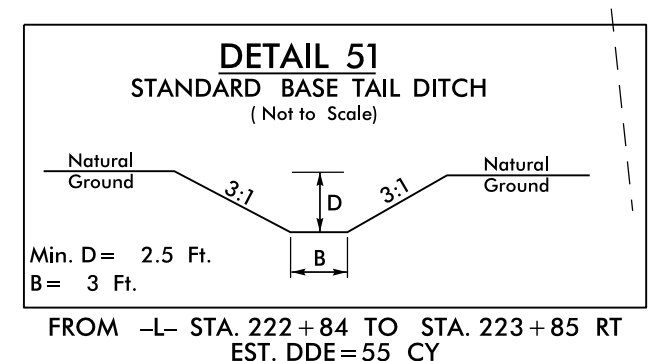
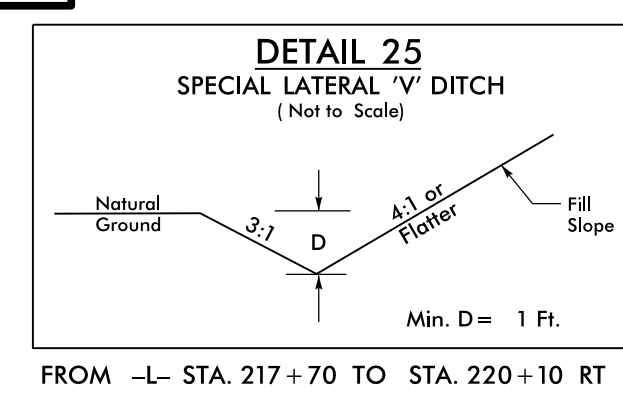


Ditch Grade	L	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'

-L- STA. 222+22 M
-L- STA. 226+06 M

200 x 40 x 3
2.5 inch Skimmer
with 2.375 inch
Orifice Diameter
26 ft. weir
ID 17.1 B

200 x 40 x 3
2.5 inch Skimmer
with 2.375 inch
Orifice Diameter
30 ft. weir
ID 17.2 B



150 x 50 x 3
2.5 inch Skimmer
with 2.25 inch
Orifice Diameter
28 ft. weir
ID 17.3 B

-Y9RPD- POT Sta. 10+00.00
-L- POC Sta. 215+26.99
OFFSET 47

82

WILLIAM SCHELL SR. CO-TRUSTEE
DB 741PG 326

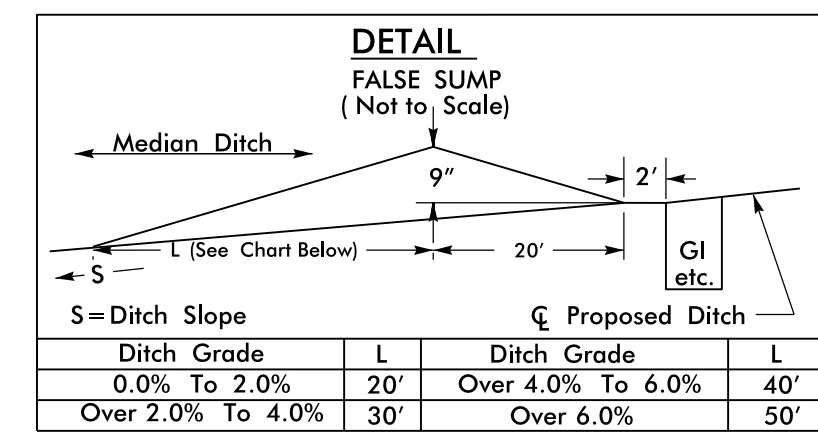
NANCY BLALOCK HEIRS & OTHERS
DB 857 PG 565
PB 15 PG 58

MATCHLINE SEE SHEET 18 -L- STA. 227+00.00

MATCHLINE SEE SHEET 16 -L- STA. 214+00.00

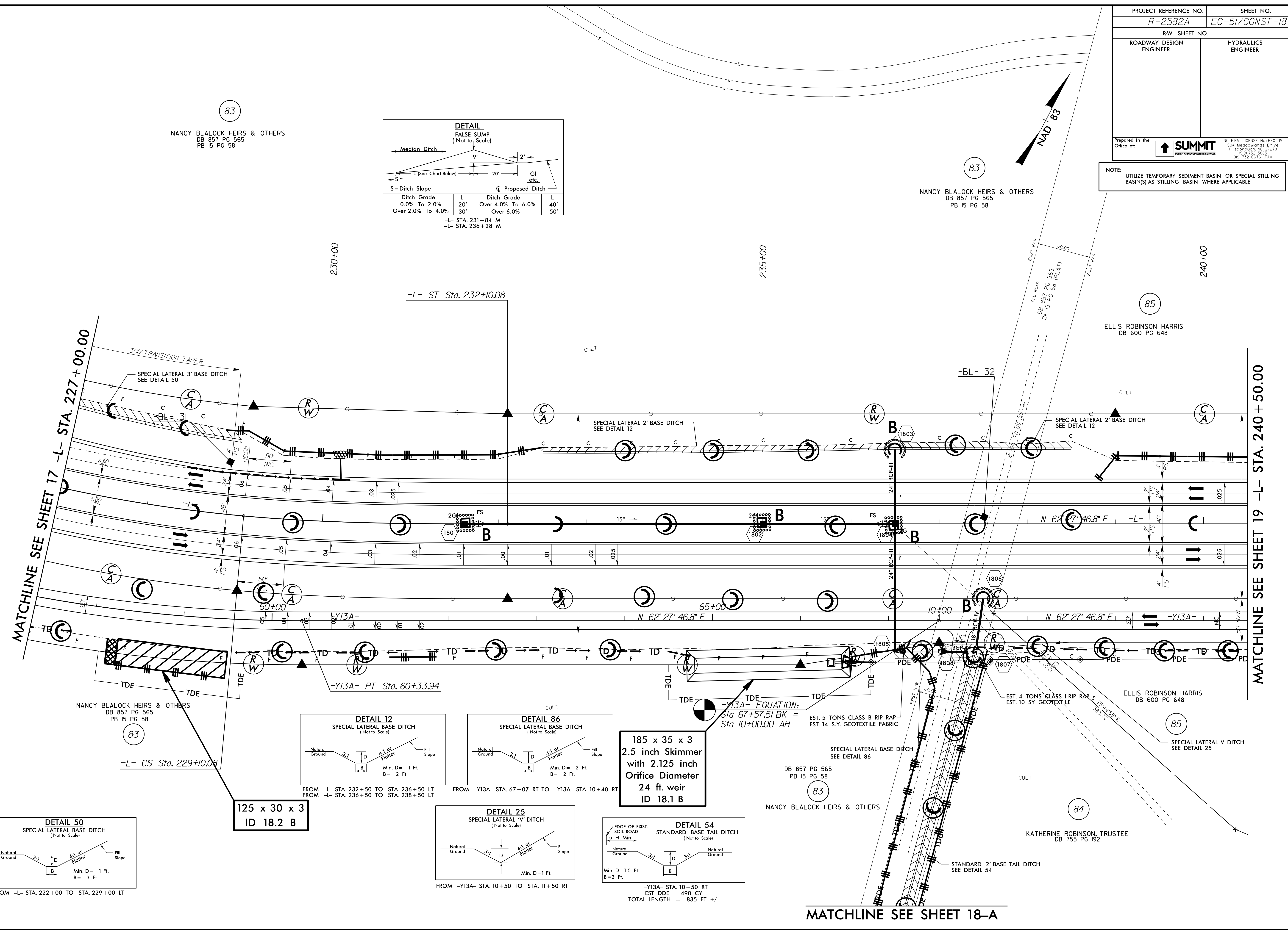
NOTE: UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

83
NANCY BLALOCK HEIRS & OTHERS
DB 857 PG 565
PB 15 PG 58

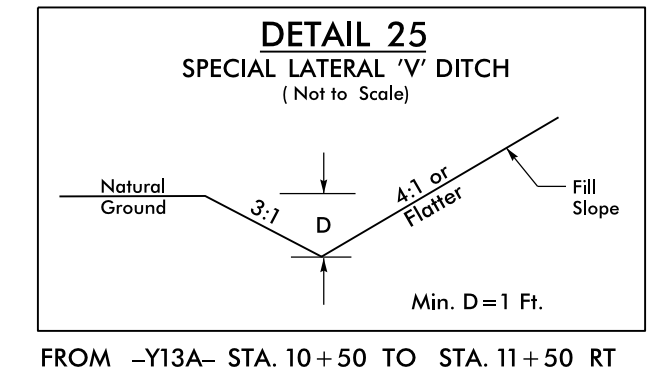
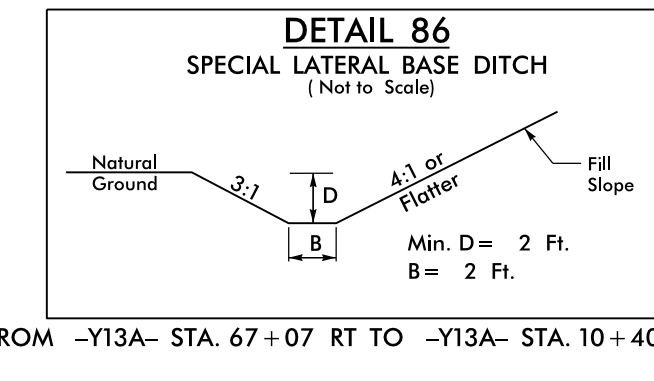
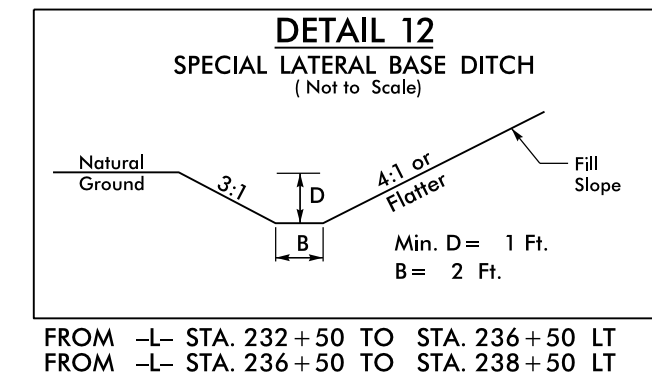
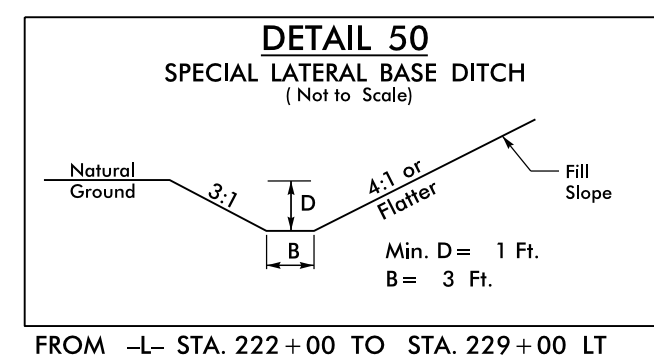


83
NANCY BLALOCK HEIRS & OTHERS
DB 857 PG 565
PB 15 PG 58

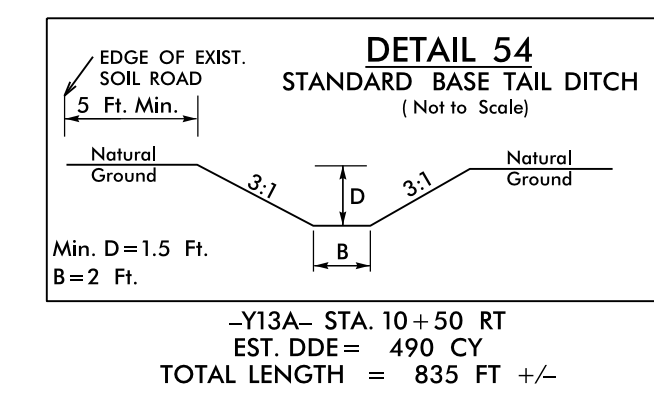
85
ELLIS ROBINSON HARRIS
DB 600 PG 648



NANCY BLALOCK HEIRS & OTHERS
DB 857 PG 565
PB 15 PG 58



**185 x 35 x 3
2.5 inch Skimmer
with 2.125 inch
Orifice Diameter
24 ft. weir
ID 18.1 B**




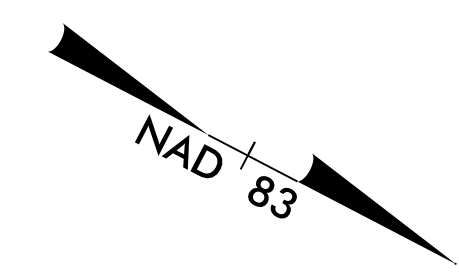
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NANCY BLALOCK HEIRS & OTHERS
DB 857 PG 565
PB 15 PG 58

84
KATHERINE ROBINSON, TRUSTEE
DB 755 PG 192

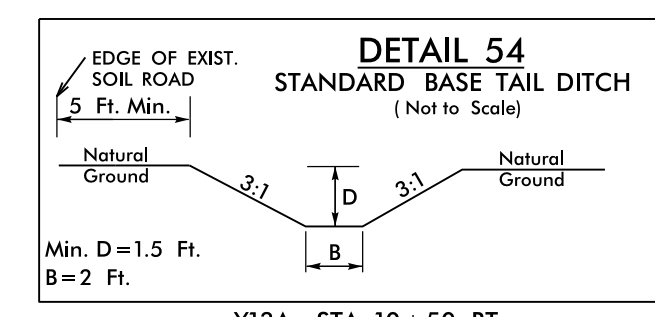
8/17/99

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PROJECT REFERENCE NO. <i>R-2582A</i>	SHEET NO. <i>EC-51A/CONST-18A</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Prepared in the Office of:	
	
<small>NC FIRM LICENSE Nos P-0339 504 Meadowslands Drive Hillsborough, NC 27578 (919) 732-3883 (919) 732-6676 (FAX)</small>	

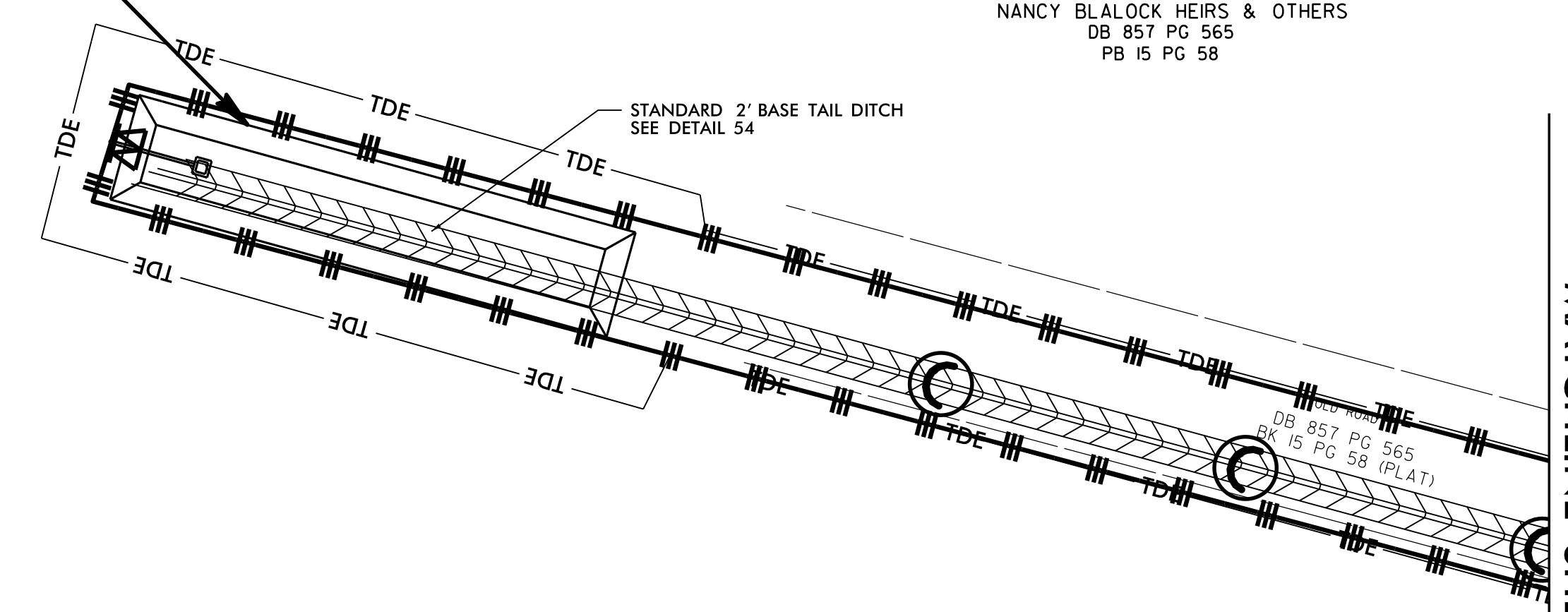


NOTE: UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.



-Y13A- STA. 10+50 RT
EST. DDE = 490 CY
TOTAL LENGTH = 835 FT +/-

210 x 40 x 3
2.5 inch Skimmer
with 2.375 inch
Orifice Diameter
32 ft. weir
ID 18A.1 B



CULT

(83)

NANCY BLALOCK HEIRS & OTHERS
DB 857 PG 565
PB 15 PG 58

CULT

(84)

KATHERINE ROBINSON, TRUSTEE
DB 755 PG 192

MATCHLINE SHEET 18

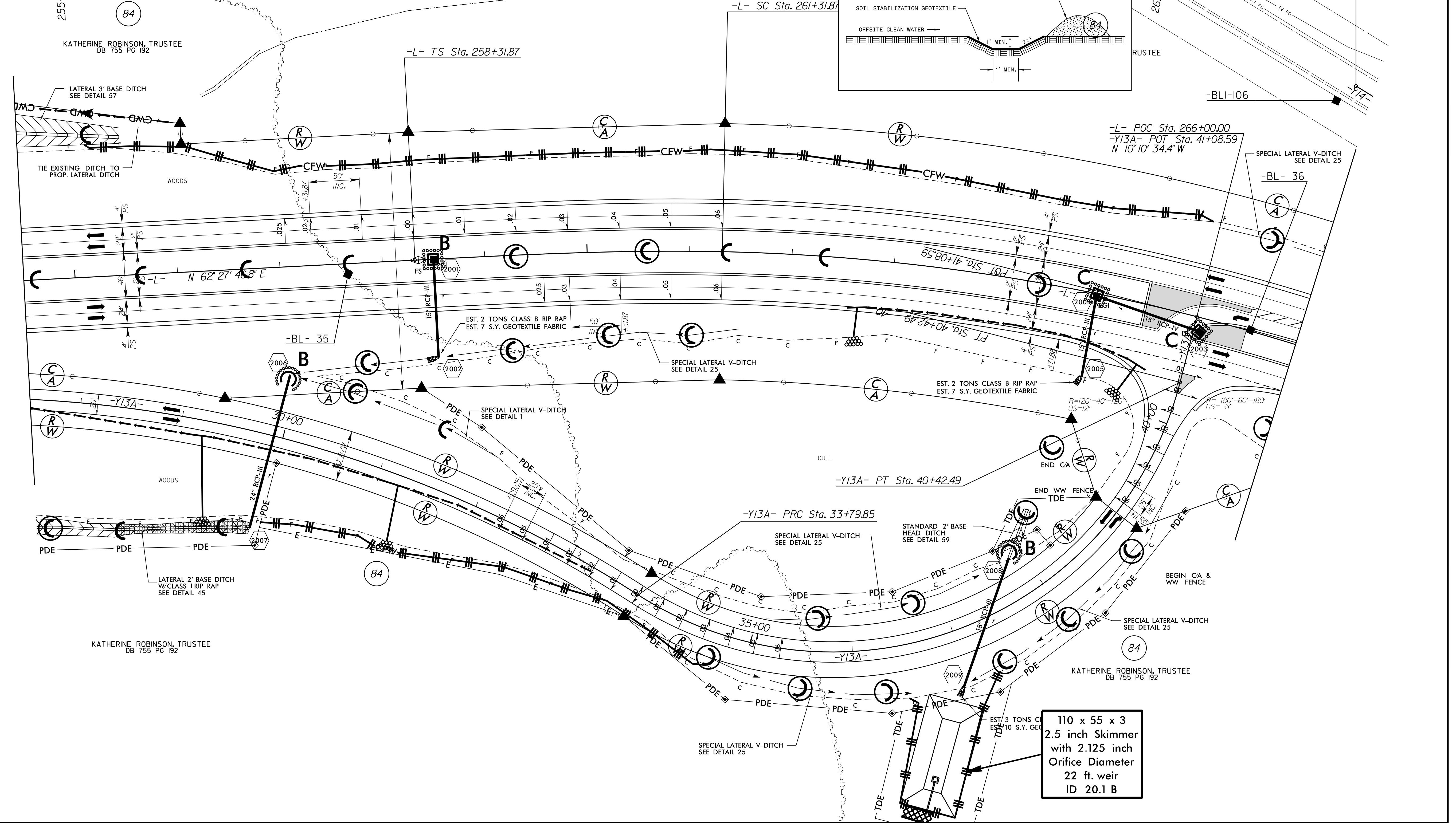
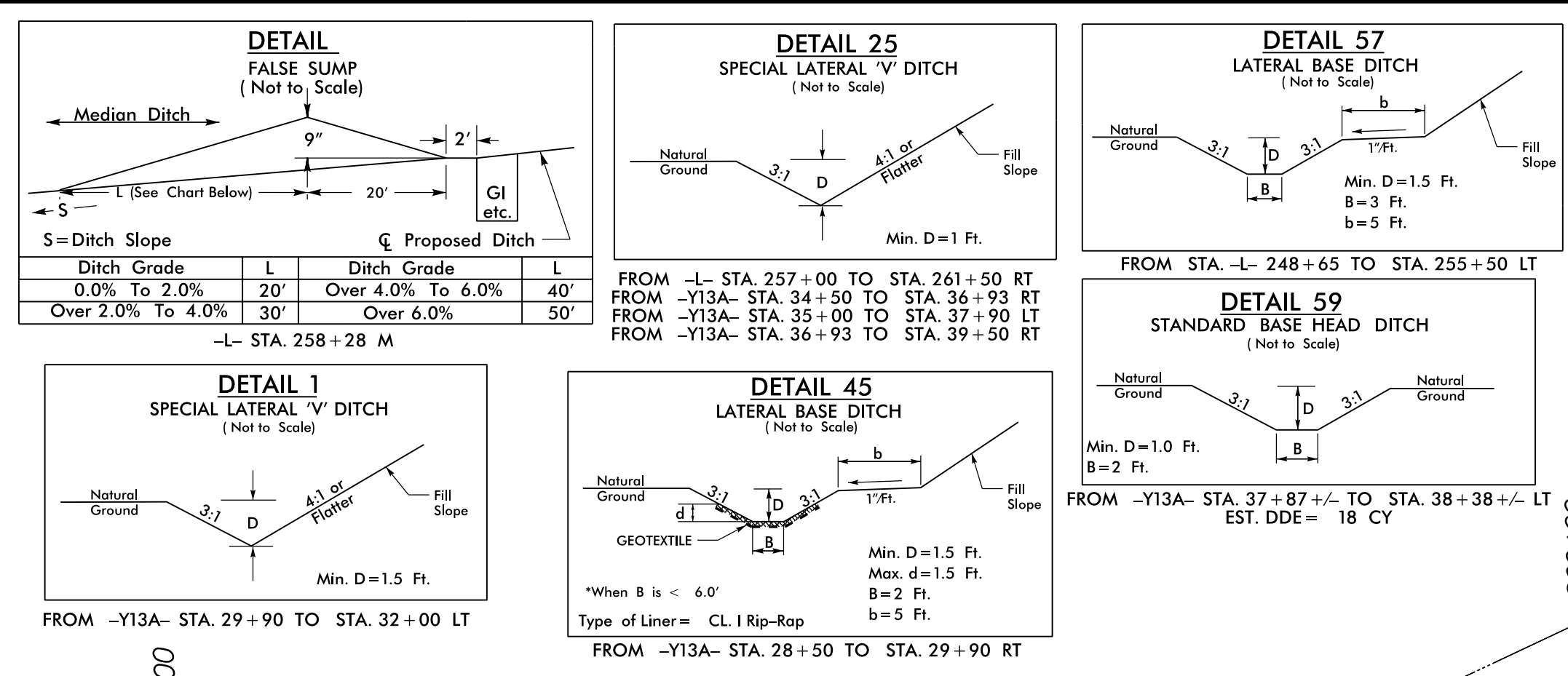
REVISIONS

8/17/99

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PROJECT REFERENCE NO. R-2582A	SHEET NO. EC-53/CONST.20
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Prepared in the Office of: **SUMMIT**
DESIGN AND ENGINEERING SERVICES
NC FIRM LICENSE Nos P-0339
504 Meadowslands Drive
Hillsborough, NC 27278
(919) 732-3883
(919) 732-6676 (FAX)



8/17/99

REVISIONS

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KATHERINE ROBINSON, TRUSTEE
DB 755 PG 192

KATHERINE ROBINSON, TRUSTEE
DB 755 PG 192

110 x 55 x 3
2.5 inch Skimmer
with 2.125 inch
Orifice Diameter
22 ft. weir
ID 20.1 B

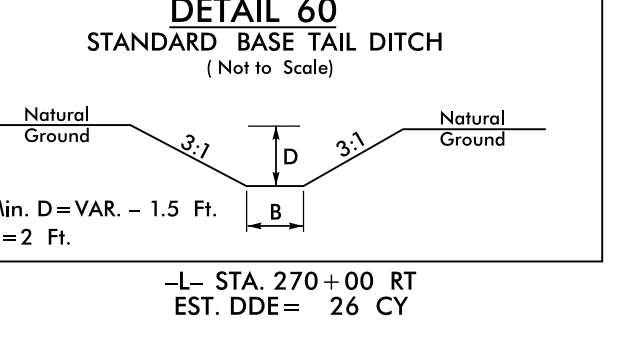
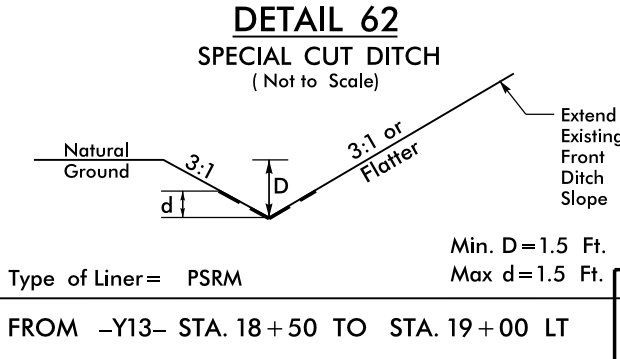
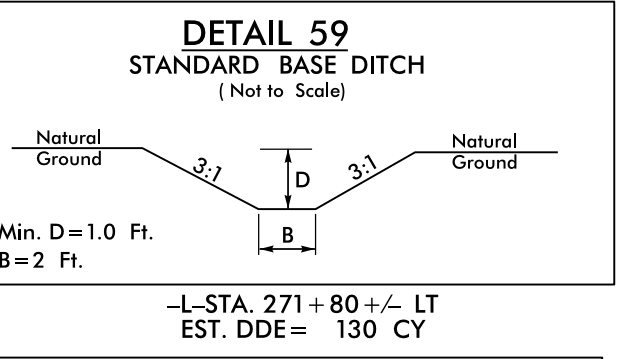
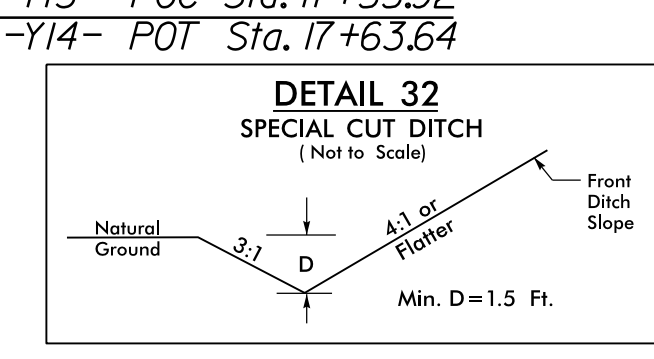
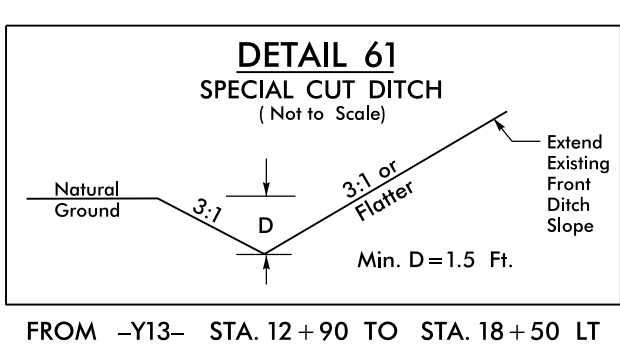
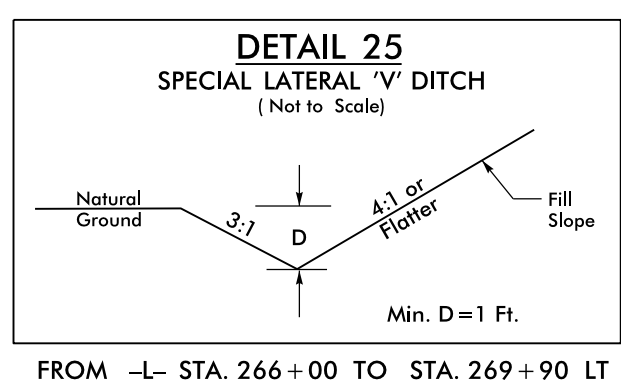
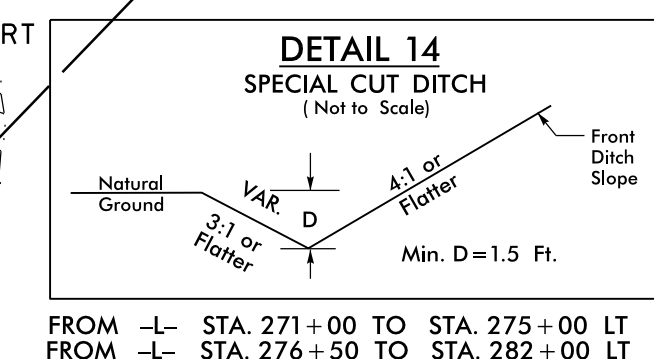
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RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

Prepared in the Office of:



NC FIRM LICENSE Nos P-0339
504 Meadowslands Drive
Hillsborough, NC 27278
(919) 732-3883
(919) 732-6676 (FAX)

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



DETAIL FALSE SUMP
(Not to Scale)

S=Ditch Slope ϕ Proposed Ditch

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

-L- STA. 270+12 M

DETAIL FALSE SUMP
(Not to Scale)

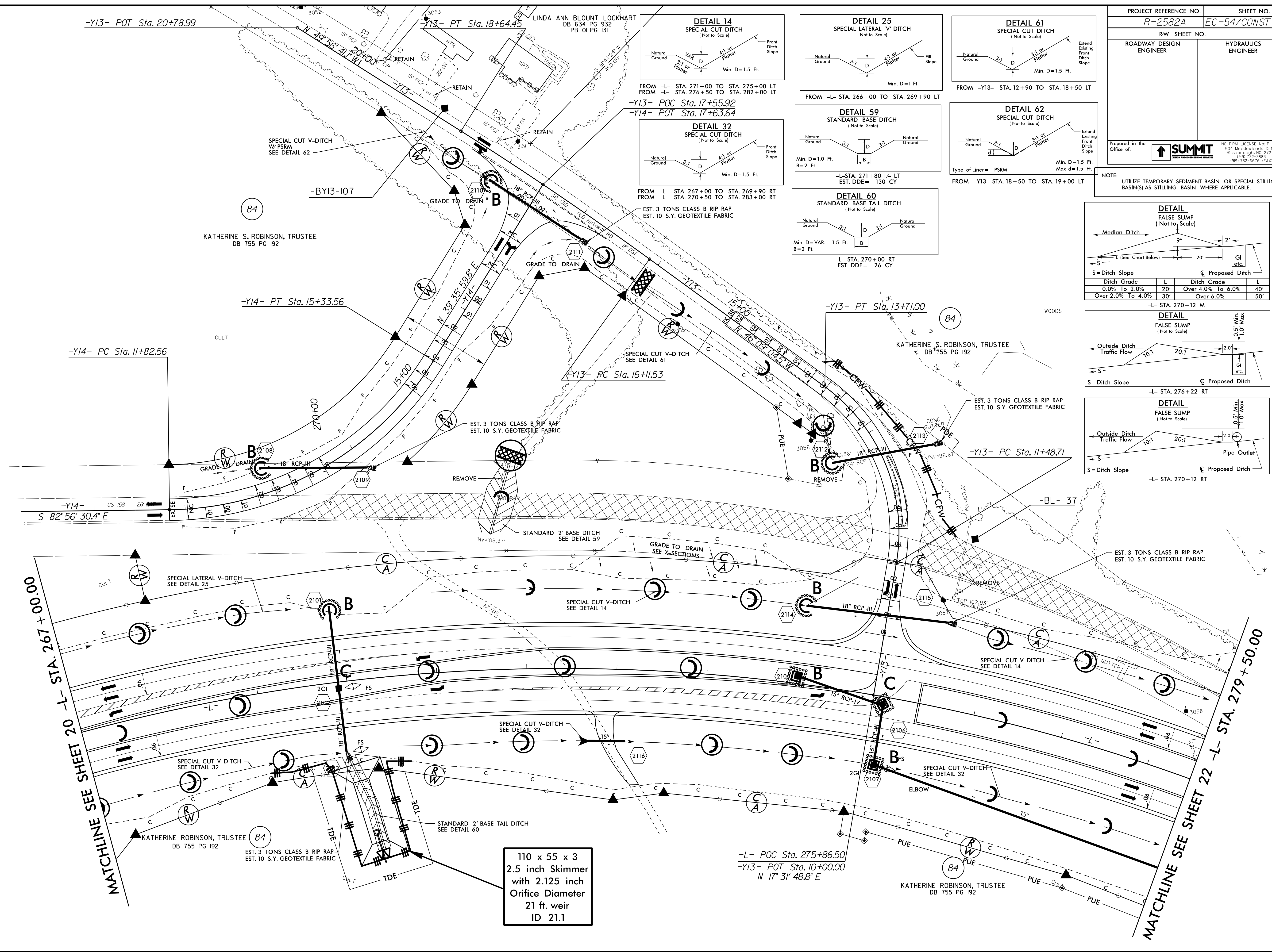
S=Ditch Slope ϕ Proposed Ditch

-L- STA. 276+22 RT

DETAIL FALSE SUMP
(Not to Scale)

S=Ditch Slope ϕ Proposed Ditch

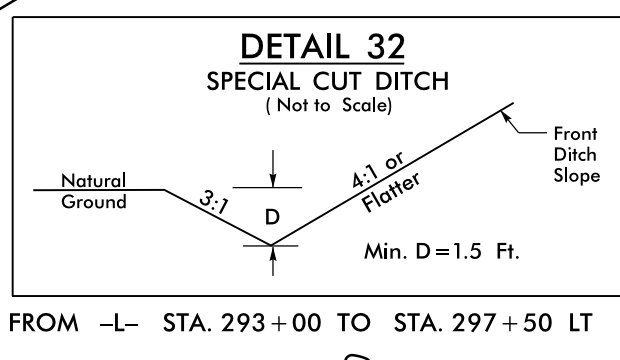
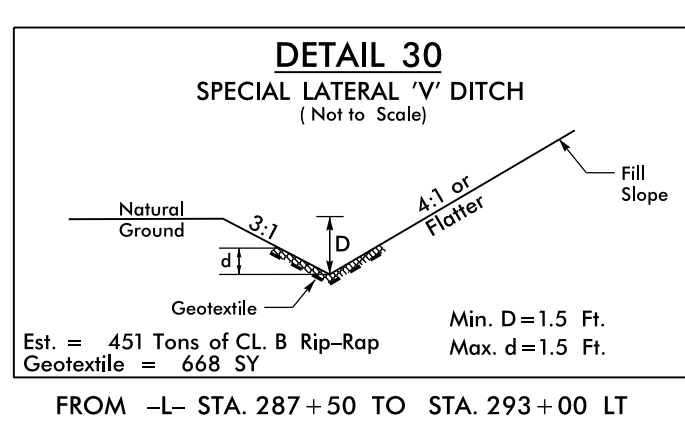
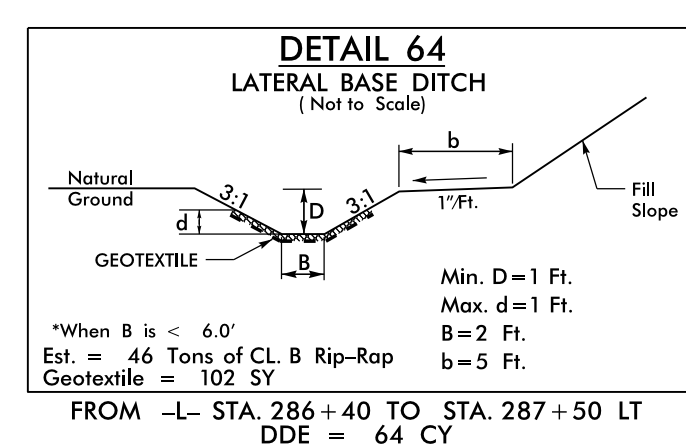
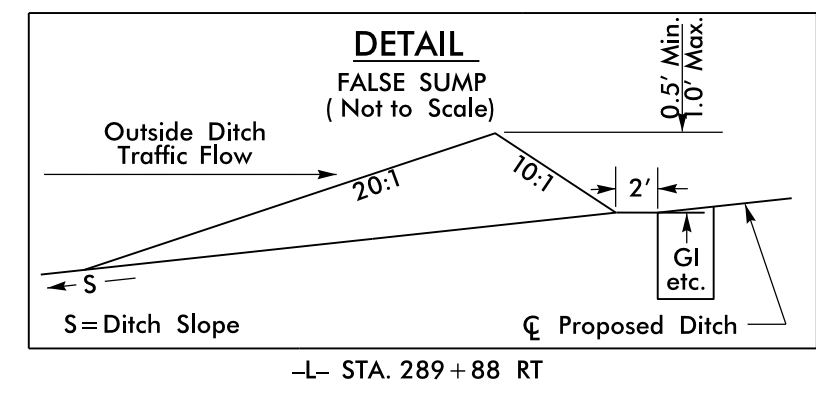
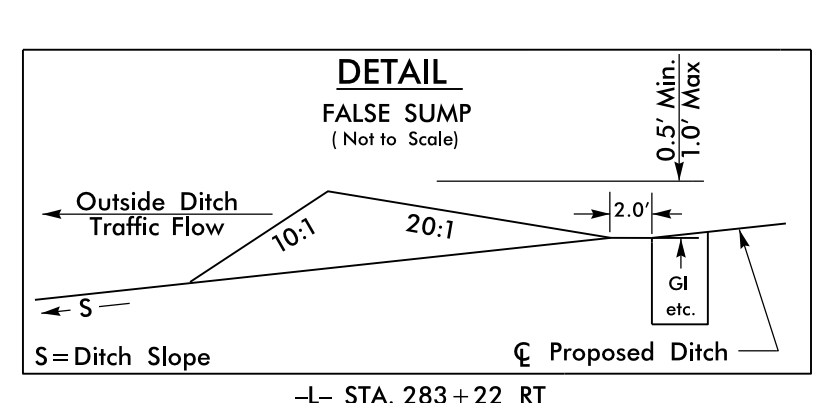
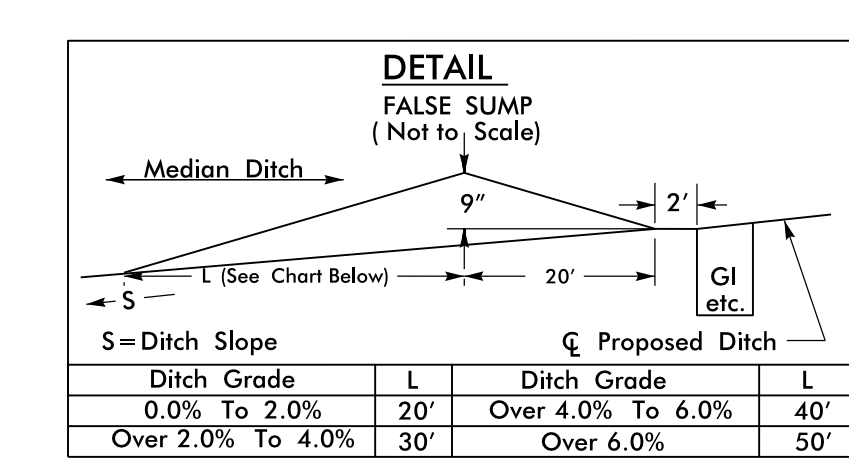
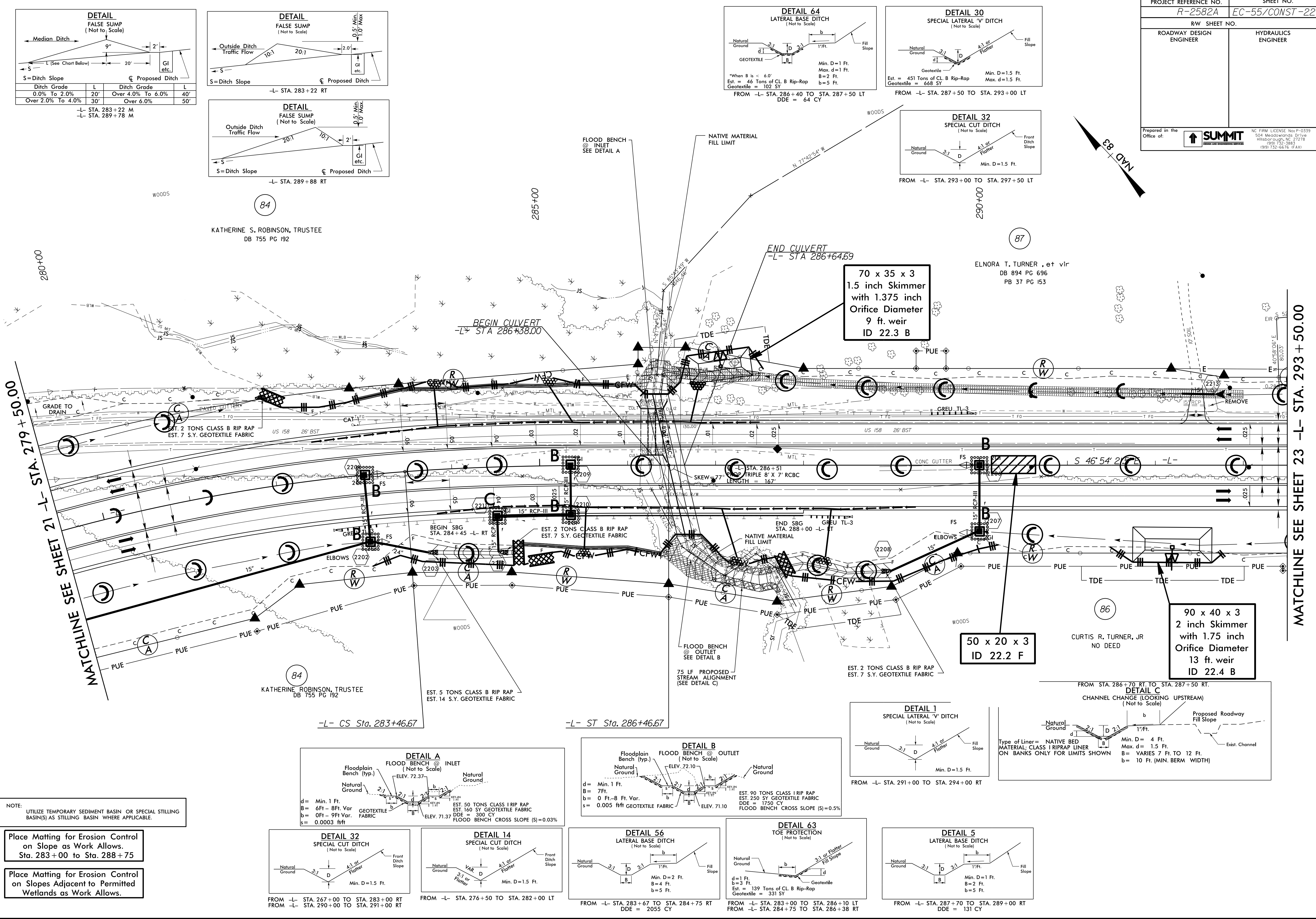
-L- STA. 270+12 RT



110 x 55 x 3
2.5 inch Skimmer
with 2.125 inch
Orifice Diameter
21 ft. weir
ID 21.1

8/17/99

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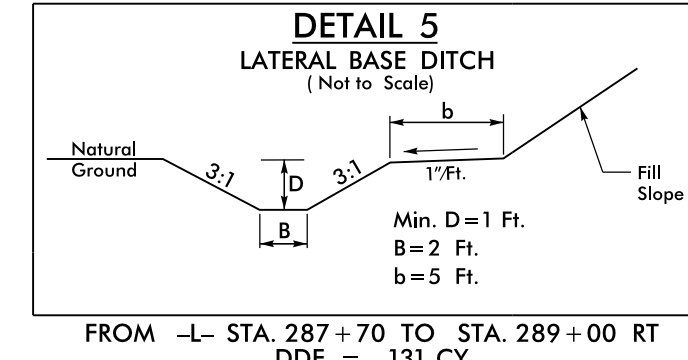
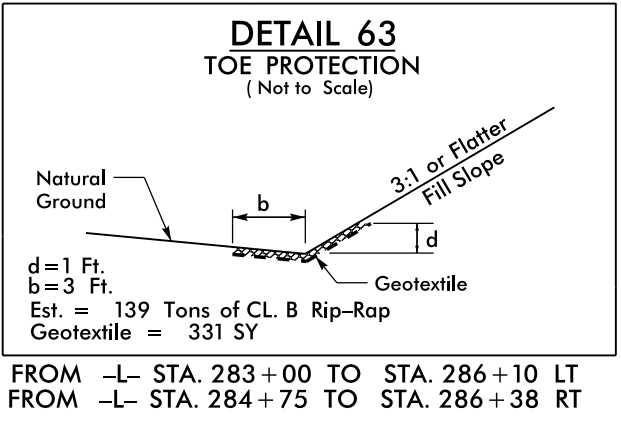
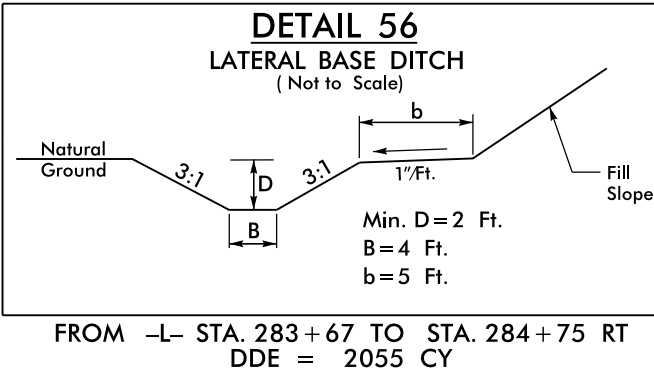
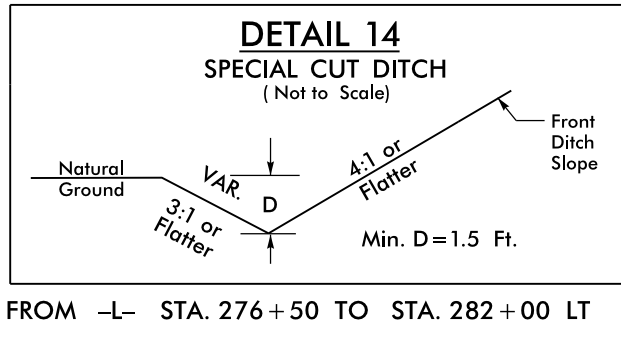
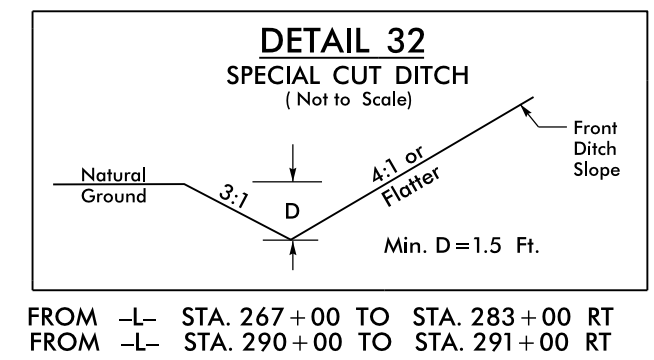
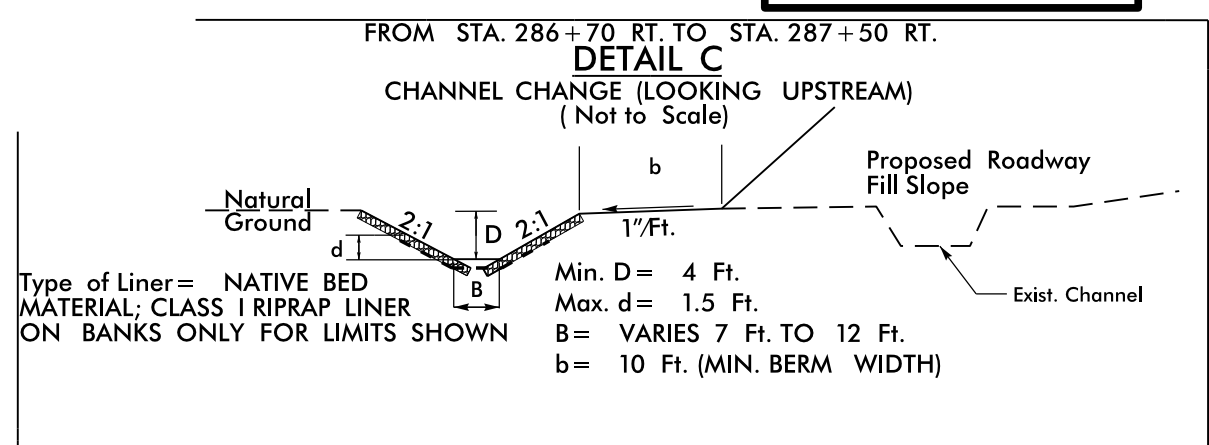
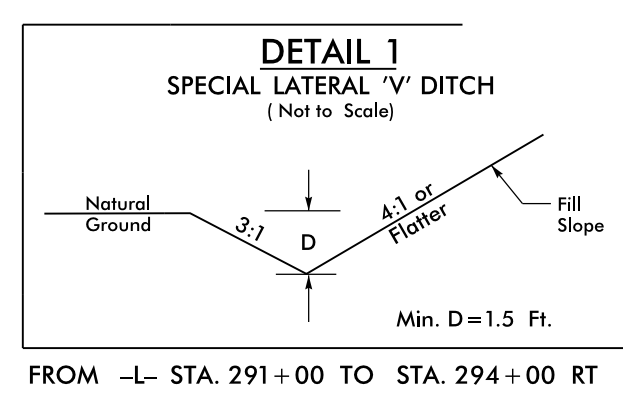
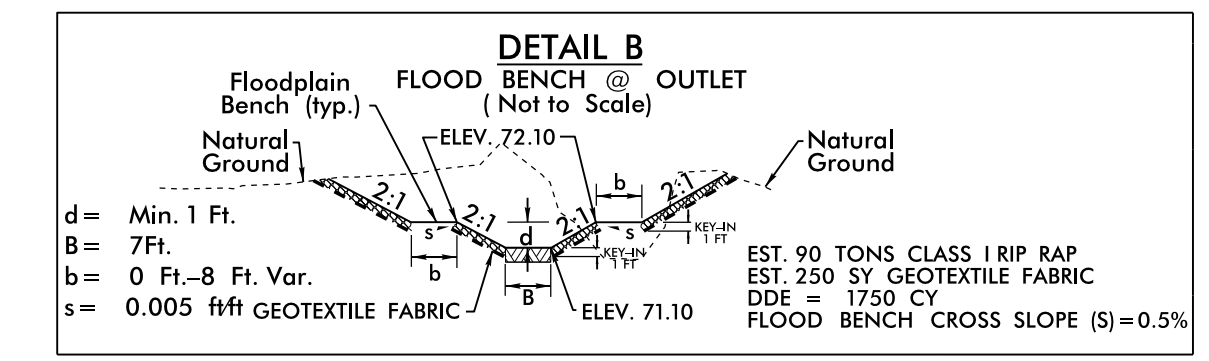
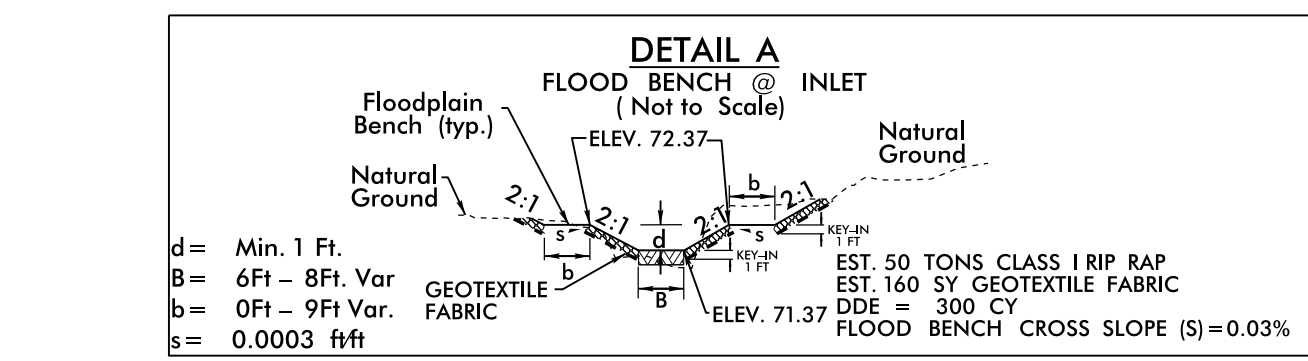
MATCHLINE SEE SHEET 21 —L- STA. 279+50.00

MATCHLINE SEE SHEET 23 —L- STA. 293+50.00

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

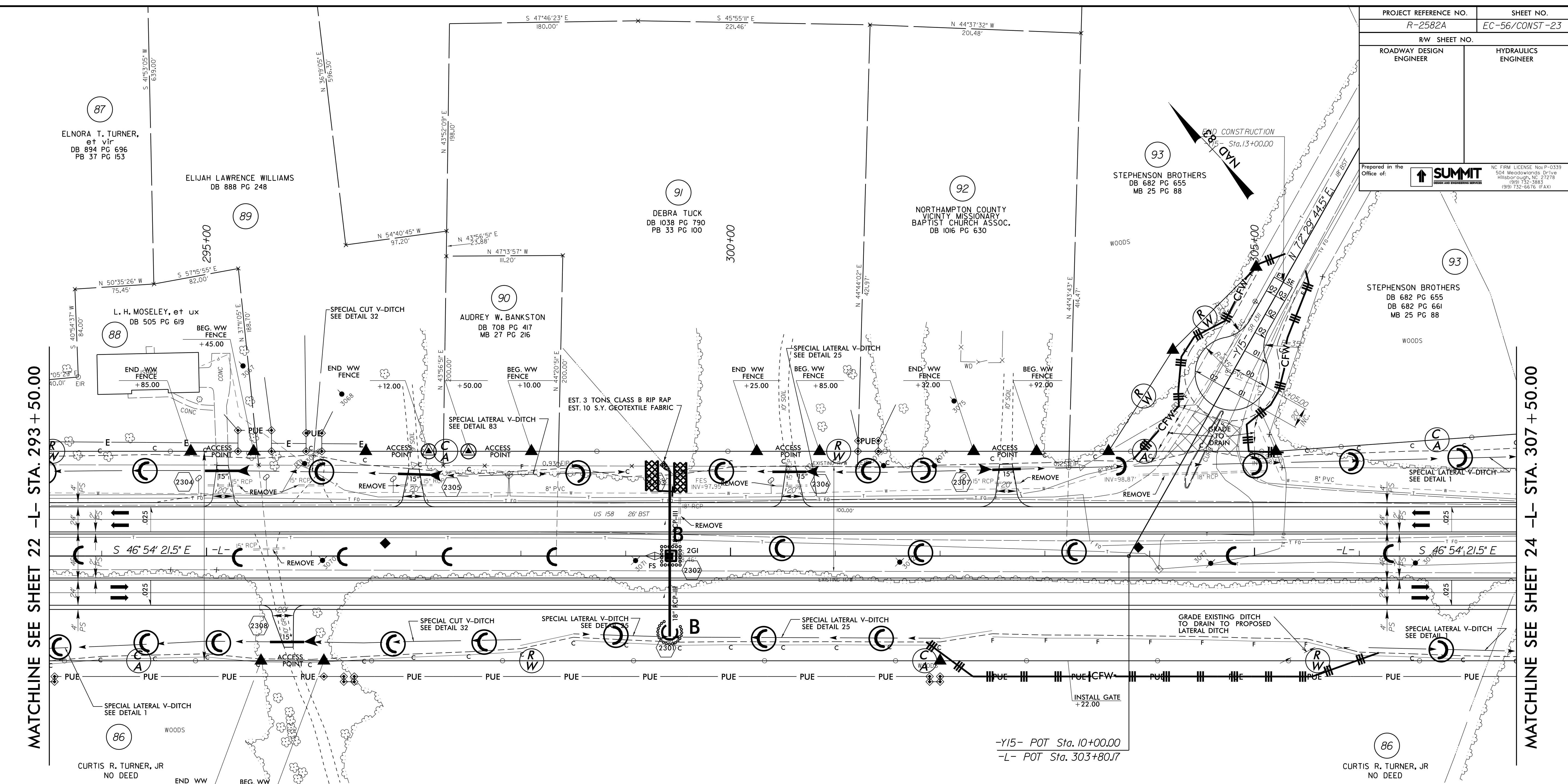
Place Matting for Erosion Control on Slope as Work Allows.
Sta. 283+00 to Sta. 288+75

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



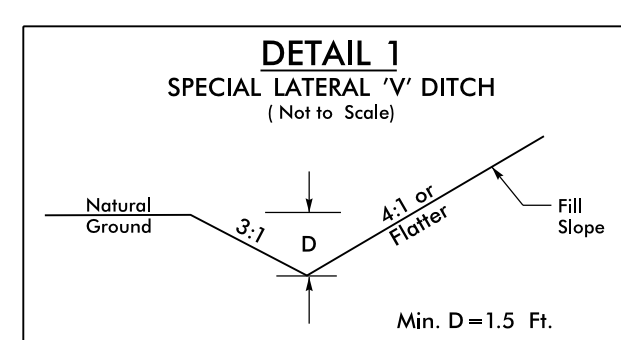
8/17/99

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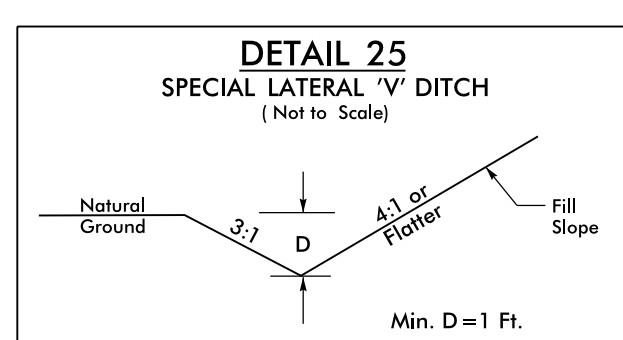


MATCHLINE SEE SHEET 22 -L- STA. 293+50.00

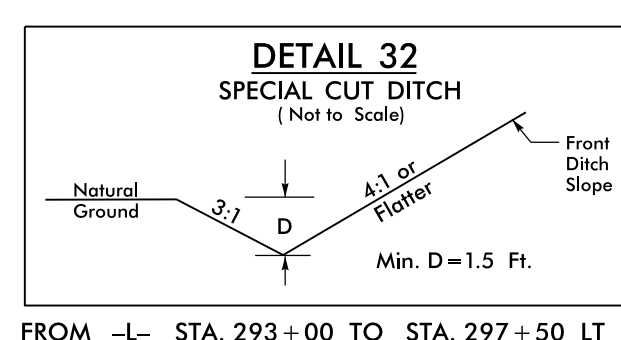
MATCHLINE SEE SHEET 24 -L- STA. 307+50.00



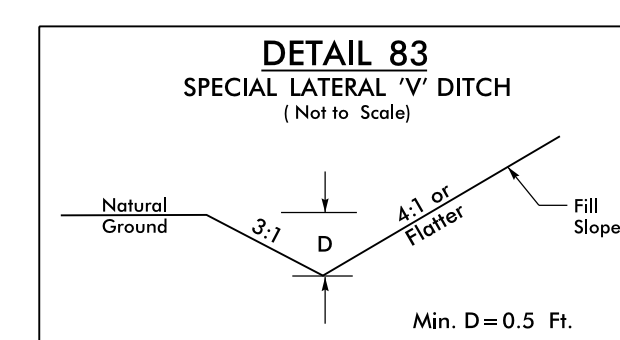
FROM -L- STA. 291+00 TO STA. 294+00 RT
FROM -L- STA. 301+50 TO STA. 307+70 LT
FROM -L- STA. 305+70 TO STA. 307+74 RT



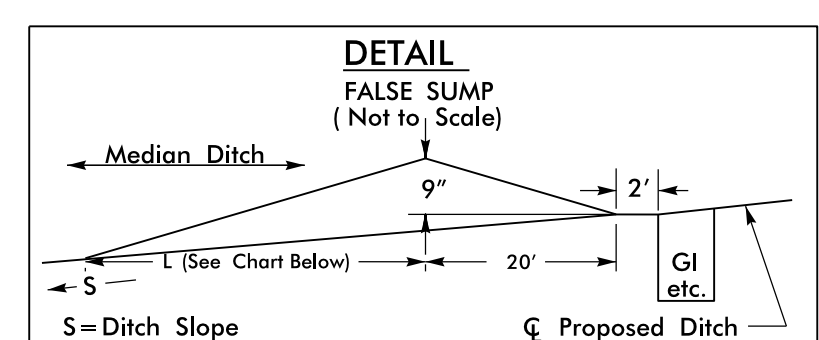
FROM -L- STA. 299+42 TO STA. 301+50 LT
FROM -L- STA. 298+50 TO STA. 299+42 RT
FROM -L- STA. 299+42 TO STA. 302+00 RT



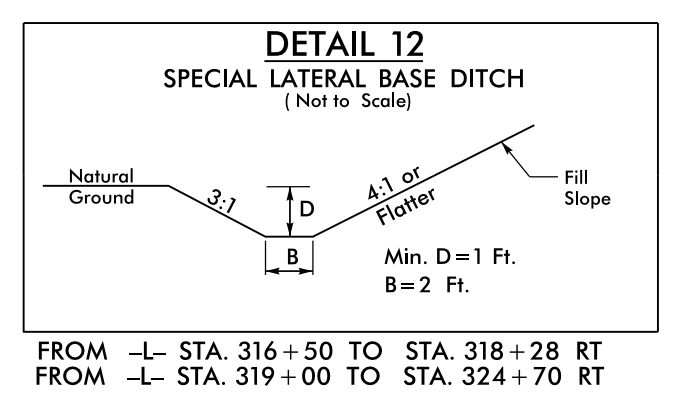
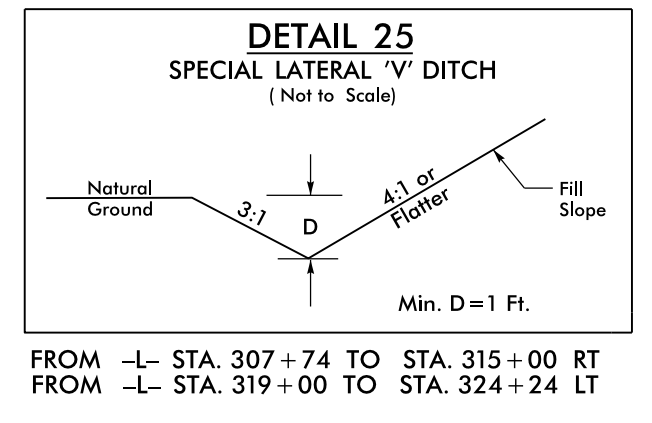
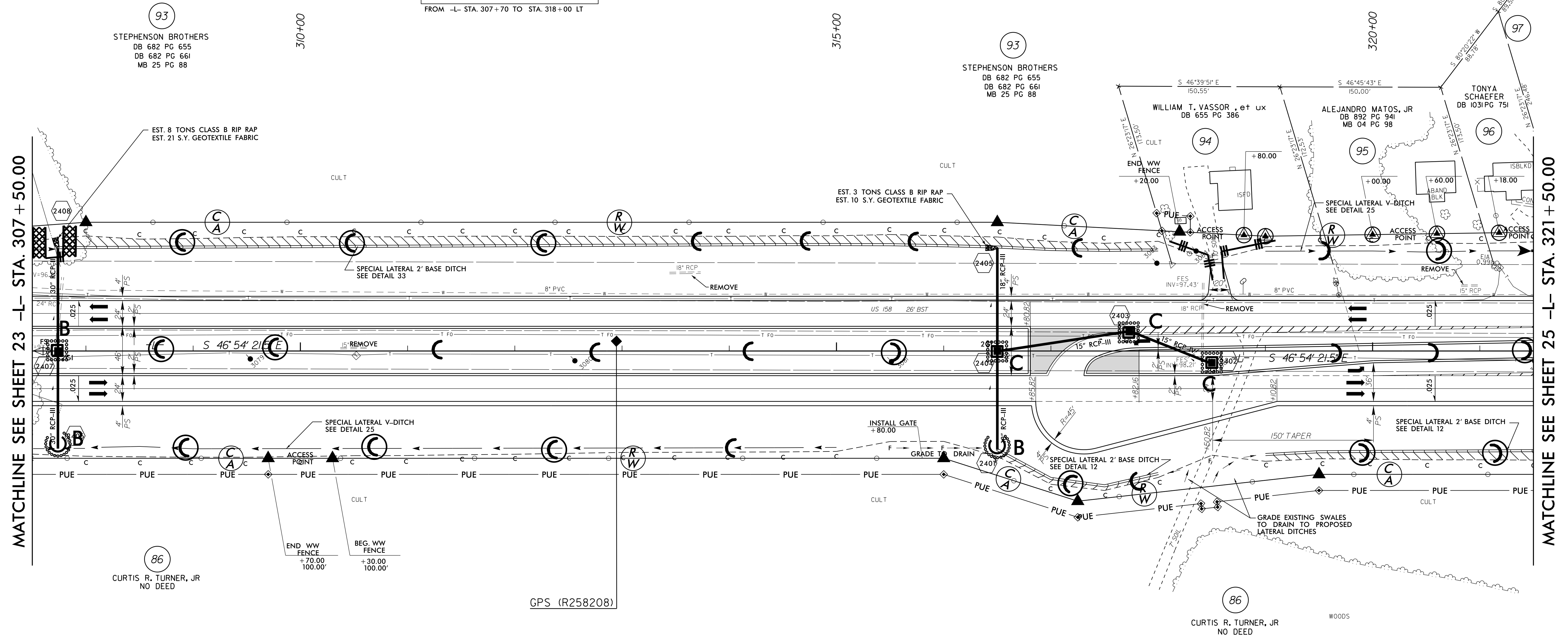
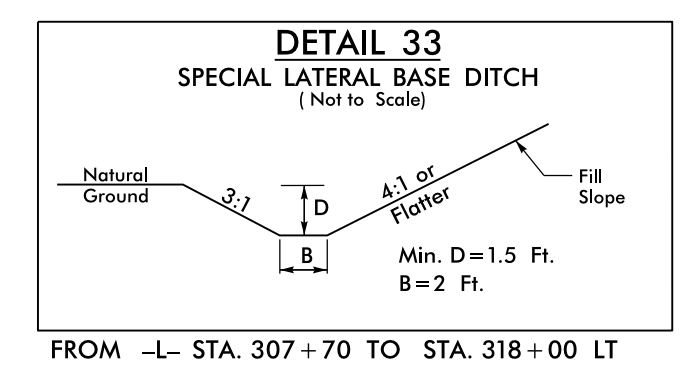
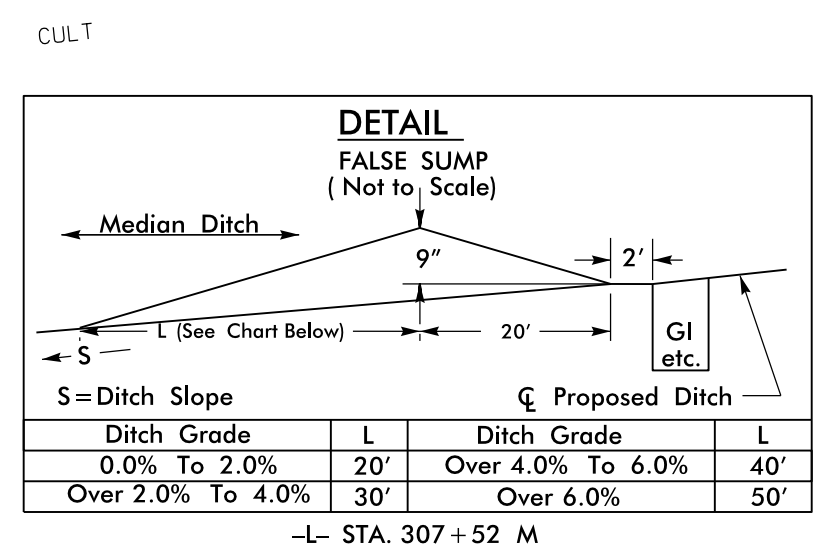
FROM -L- STA. 293+00 TO STA. 297+50 LT
FROM -L- STA. 294+00 TO STA. 298+00 RT



FROM -L- STA. 297+50 TO STA. 299+42 LT



8/17/99
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8/17/99

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