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8.17.99

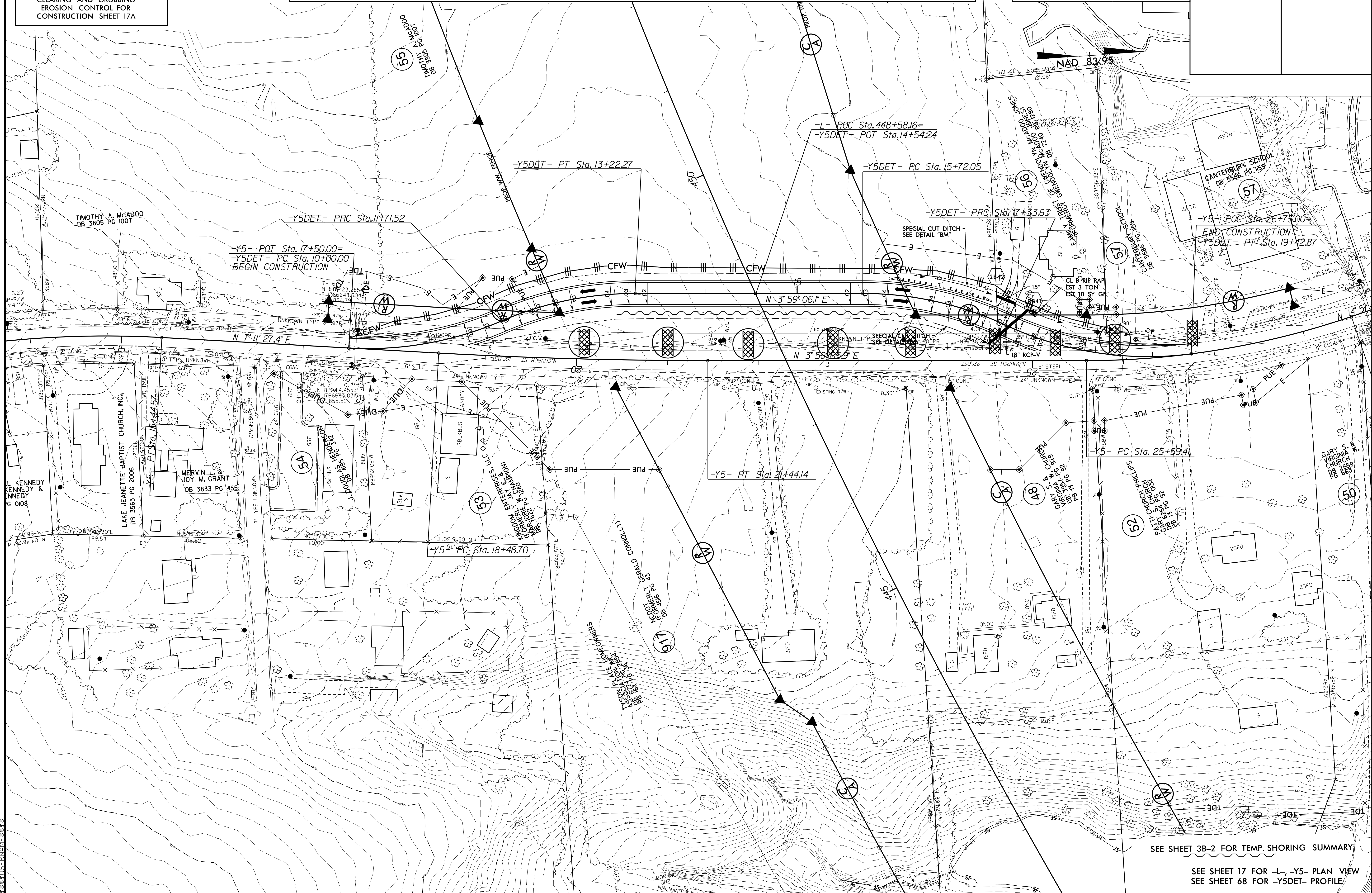
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 17A

# DETAIL OF -Y5DET- (N. CHURCH ST.) VDES. = 35 MPH

**WETHERILL ENGINEERING**  
1223 Jones Franklin Road  
Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077  
Fax: 919 851 8107  
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

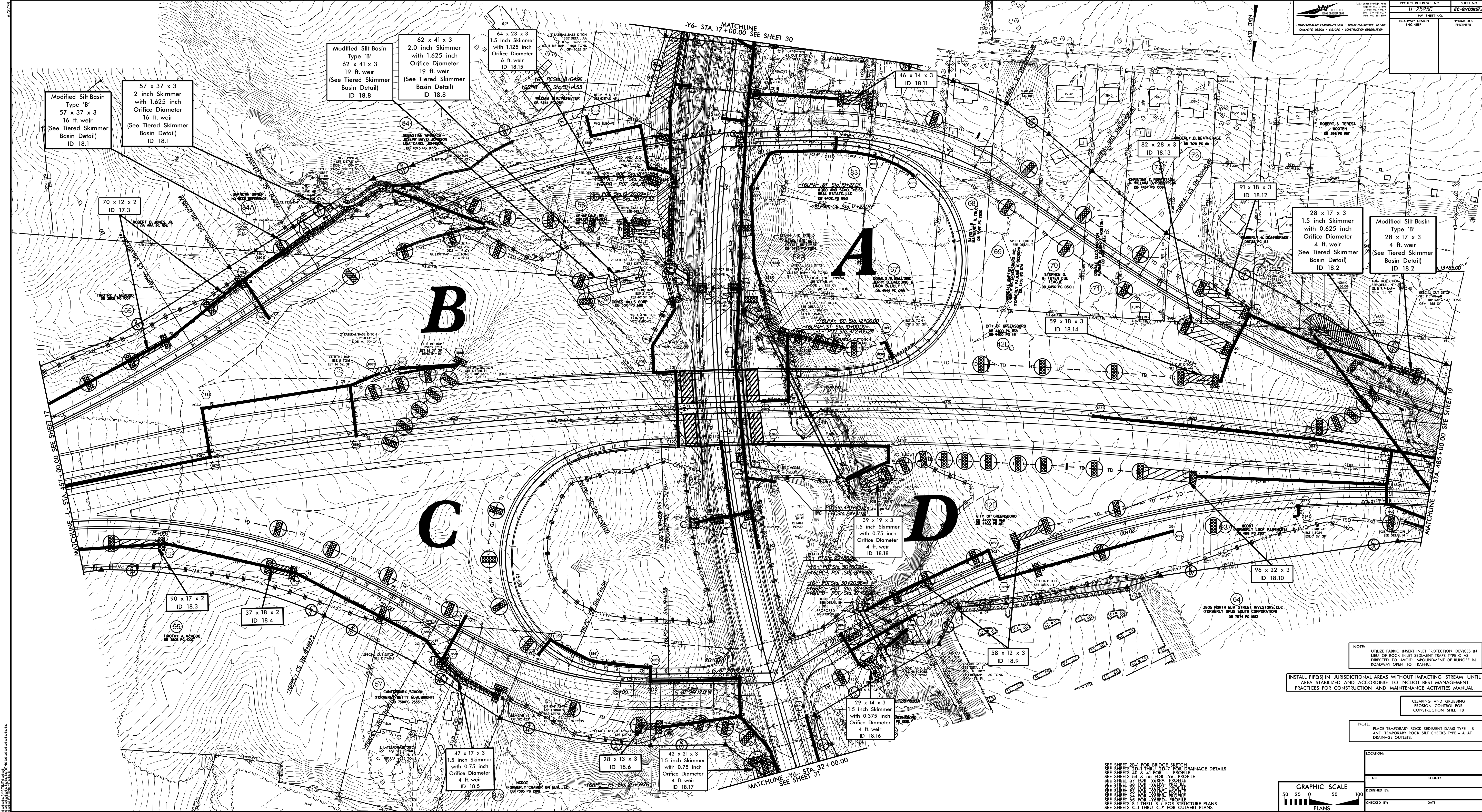
PROJECT REFERENCE NO. <b>U-2525C</b>	SHEET NO. <b>EC-20/CONST.17A</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



SEE SHEET 3B-2 FOR TEMP. SHORING SUMMARY

SEE SHEET 17 FOR -L-, -Y5- PLAN VIEW  
SEE SHEET 68 FOR -Y5DET- PROFILE

CONSTRUCTION NOTES:  
1. ALL CONCRETE SHALL BE PLACED IN ONE RISE.  
2. ALL CONCRETE SHALL BE CURED WITH WET BURLAP AND PLASTIC SHEETING.  
3. ALL STRUCTURES SHALL BE FINISHED TO THE FINISH SURFACE.  
4. ALL STRUCTURES SHALL BE PROTECTED FROM COLLISION WITH VEHICLES.  
5. ALL STRUCTURES SHALL BE MAINTAINED IN GOOD REPAIR AT ALL TIMES.  
6. ALL STRUCTURES SHALL BE DEMOLISHED AND REMOVED AT THE END OF THE PROJECT.  
7. ALL STRUCTURES SHALL BE RECONSTRUCTED TO ORIGINAL CONDITION AT THE END OF THE PROJECT.  
8. ALL STRUCTURES SHALL BE RECONSTRUCTED TO ORIGINAL CONDITION AT THE END OF THE PROJECT.  
9. ALL STRUCTURES SHALL BE RECONSTRUCTED TO ORIGINAL CONDITION AT THE END OF THE PROJECT.  
10. ALL STRUCTURES SHALL BE RECONSTRUCTED TO ORIGINAL CONDITION AT THE END OF THE PROJECT.



Modified Silt Basin Type 'B' 57 x 37 x 3 16 ft. weir (See Tiered Skimmer Basin Detail) ID 18.1

57 x 37 x 3 2 inch Skimmer with 1.625 inch Orifice Diameter 16 ft. weir (See Tiered Skimmer Basin Detail) ID 18.1

Modified Silt Basin Type 'B' 62 x 41 x 3 19 ft. weir (See Tiered Skimmer Basin Detail) ID 18.8

62 x 41 x 3 2.0 inch Skimmer with 1.625 inch Orifice Diameter 19 ft. weir (See Tiered Skimmer Basin Detail) ID 18.8

64 x 23 x 3 1.5 inch Skimmer with 1.125 inch Orifice Diameter 6 ft. weir ID 18.15

46 x 14 x 3 ID 18.11

82 x 28 x 3 ID 18.13

28 x 17 x 3 1.5 inch Skimmer with 0.625 inch Orifice Diameter 4 ft. weir (See Tiered Skimmer Basin Detail) ID 18.2

Modified Silt Basin Type 'B' 28 x 17 x 3 4 ft. weir (See Tiered Skimmer Basin Detail) ID 18.2

70 x 12 x 2 ID 17.3

59 x 18 x 3 ID 18.14

96 x 22 x 3 ID 18.10

90 x 17 x 2 ID 18.3

37 x 18 x 2 ID 18.4

39 x 19 x 3 1.5 inch Skimmer with 0.75 inch Orifice Diameter 4 ft. weir ID 18.18

29 x 14 x 3 1.5 inch Skimmer with 0.375 inch Orifice Diameter 4 ft. weir ID 18.16

47 x 17 x 3 1.5 inch Skimmer with 0.75 inch Orifice Diameter 4 ft. weir ID 18.5

28 x 13 x 3 ID 18.6

42 x 21 x 3 1.5 inch Skimmer with 0.75 inch Orifice Diameter 4 ft. weir ID 18.17

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAPS TYPE-C AS DIRECTED TO AVOID IMPEDIMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 18

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

LOCATION: \_\_\_\_\_ COUNTY: \_\_\_\_\_

TP NO.: \_\_\_\_\_

DESIGNED BY: \_\_\_\_\_

CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

GRAPHIC SCALE  
 50 25 0 50 100  
 PLANS

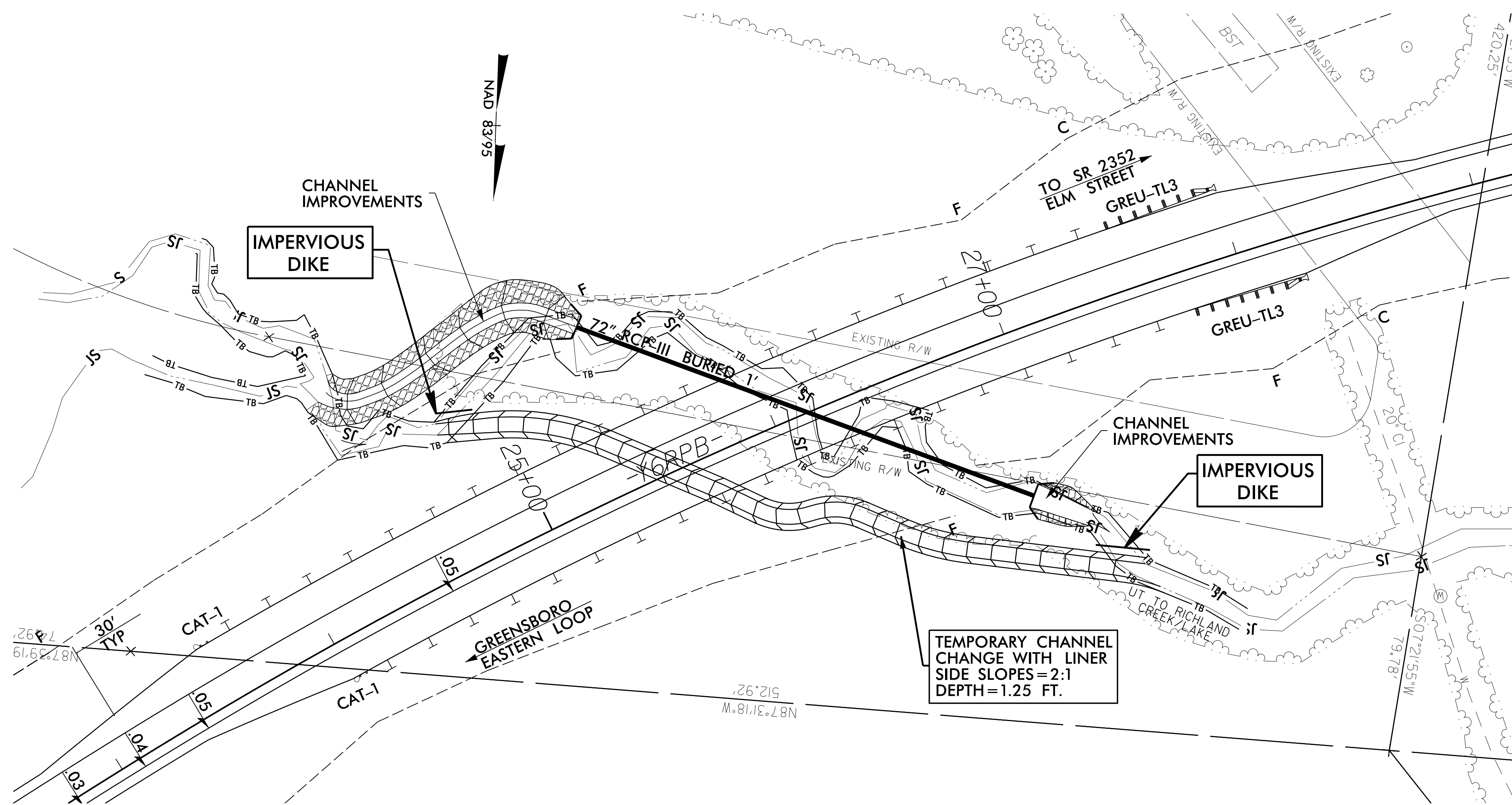
SEE SHEET 28-1 FOR BRIDGE SKETCH  
 SEE SHEET 28-2 FOR DRAINAGE DETAILS  
 SEE SHEET 28-3 FOR PROFILE  
 SEE SHEET 28-4 FOR PROFILE  
 SEE SHEET 28-5 FOR PROFILE  
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 SEE SHEET 28-98 FOR PROFILE  
 SEE SHEET 28-99 FOR PROFILE  
 SEE SHEET 28-100 FOR PROFILE

# CONSTRUCTION PHASING

## CULVERT AT STATION 26+08 -Y6RPB-

### CONSTRUCTION SEQUENCE

1. INSTALL PROPOSED EROSION CONTROL MEASURES
2. INSTALL SPECIAL STILLING BASIN(S) FOR PUMPED EFFLUENT.
3. CONSTRUCT IMPERVIOUS DIKES AND INSTALL TEMPORARY CHANNEL CHANGE WITH LINER (6 FT. BASE, 1.25 FT. DEPTH, 2:1 SIDE SLOPES).
4. INSTALL PROPOSED 72" RCP-III AND CONSTRUCT CHANNEL IMPROVEMENTS.
5. REMOVE IMPERVIOUS DIKES AND TEMPORARY CHANNEL CHANGE WITH LINER, AND SPECIAL STILLING BASIN(S) AND DIVERT FLOW INTO PROPOSED PIPE.
6. COMPLETE ROADWAY.

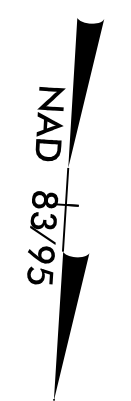


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 Raleigh, N.C. 27606  
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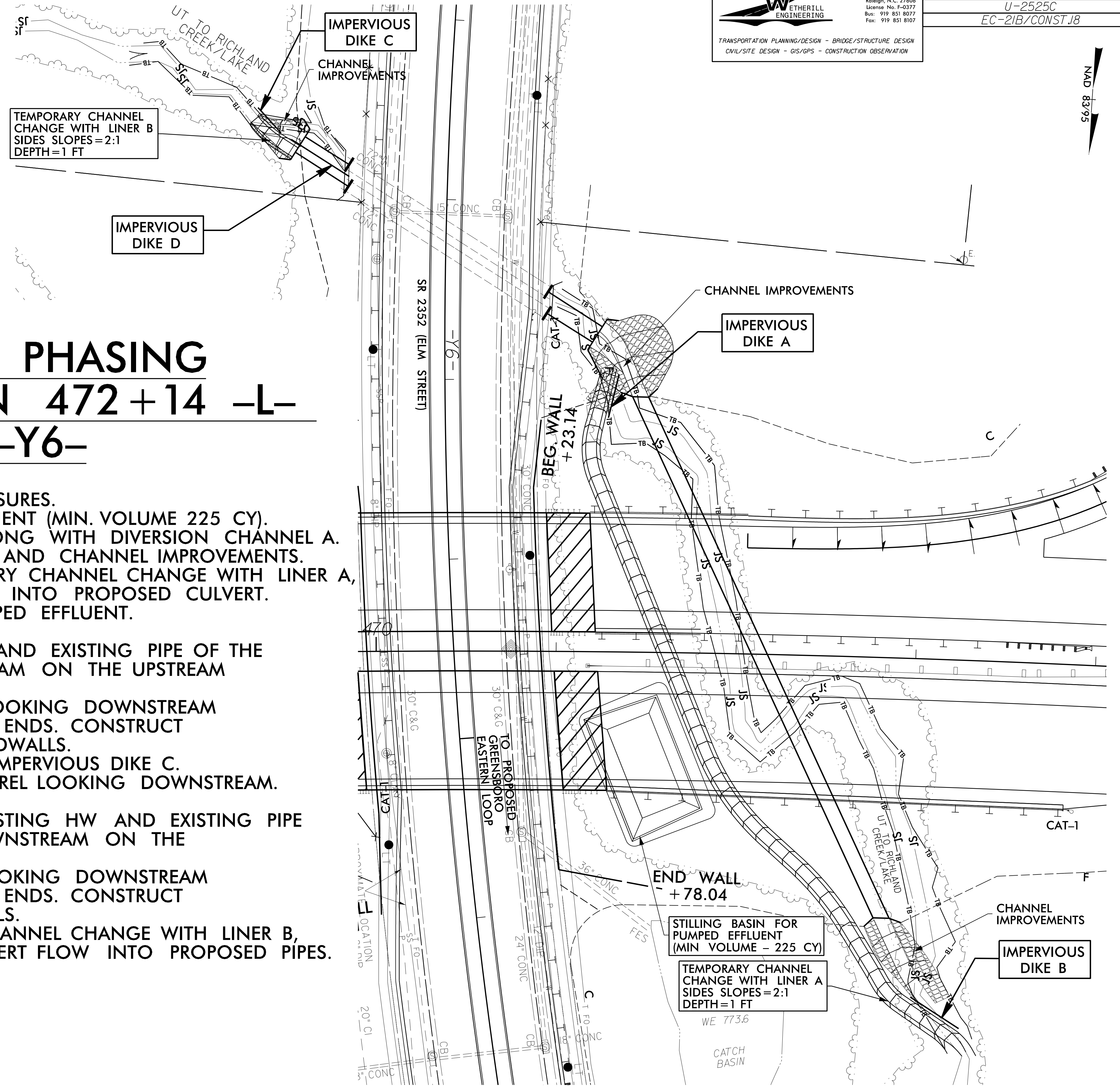
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.
U-2525C
EC-2IB/CONST.18



# CONSTRUCTION PHASING CULVERT AT STATION 472+14 -L- & 22+16 -Y6-

- CONSTRUCTION SEQUENCE**
1. INSTALL PROPOSED EROSION CONTROL MEASURES.
  2. INSTALL STILLING BASIN FOR PUMPED EFFLUENT (MIN. VOLUME 225 CY).
  3. CONSTRUCT IMPERVIOUS DIKE A AND B ALONG WITH DIVERSION CHANNEL A.
  4. CONSTRUCT PROPOSED CULVERT UNDER -L- AND CHANNEL IMPROVEMENTS.
  5. REMOVE IMPERVIOUS DIKES A & B, TEMPORARY CHANNEL CHANGE WITH LINER A, AND STILLING BASIN, AND DIVERT FLOW INTO PROPOSED CULVERT.
  6. INSTALL SPECIAL STILLING BASIN(S) FOR PUMPED EFFLUENT.
  7. CONSTRUCT IMPERVIOUS DIKE D.
  8. REMOVE END PORTIONS OF EXISTING HW AND EXISTING PIPE OF THE RIGHTMOST BARREL LOOKING DOWNSTREAM ON THE UPSTREAM AND DOWNSTREAM ENDS.
  9. COLLAR AND EXTEND RIGHTMOST BARREL LOOKING DOWNSTREAM ON THE UPSTREAM AND DOWNSTREAM ENDS. CONSTRUCT CORRESPONDING PORTION OF PIPE HEADWALLS.
  10. CONSTRUCT DIVERSION CHANNEL B AND IMPERVIOUS DIKE C. DIVERT FLOW INTO THE RIGHTMOST BARREL LOOKING DOWNSTREAM. REMOVE IMPERVIOUS DIKE D.
  11. REMOVE REMAINING END PORTIONS OF EXISTING HW AND EXISTING PIPE OF THE LEFTMOST BARREL LOOKING DOWNSTREAM ON THE UPSTREAM AND DOWNSTREAM ENDS.
  12. COLLAR AND EXTEND LEFTMOST BARREL LOOKING DOWNSTREAM ON THE UPSTREAM AND DOWNSTREAM ENDS. CONSTRUCT REMAINING PORTIONS OF PIPE HEADWALLS.
  13. REMOVE IMPERVIOUS DIKE C, TEMPORARY CHANNEL CHANGE WITH LINER B, AND SPECIAL STILLING BASIN(S) AND DIVERT FLOW INTO PROPOSED PIPES.
  14. COMPLETE ROADWAY.



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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

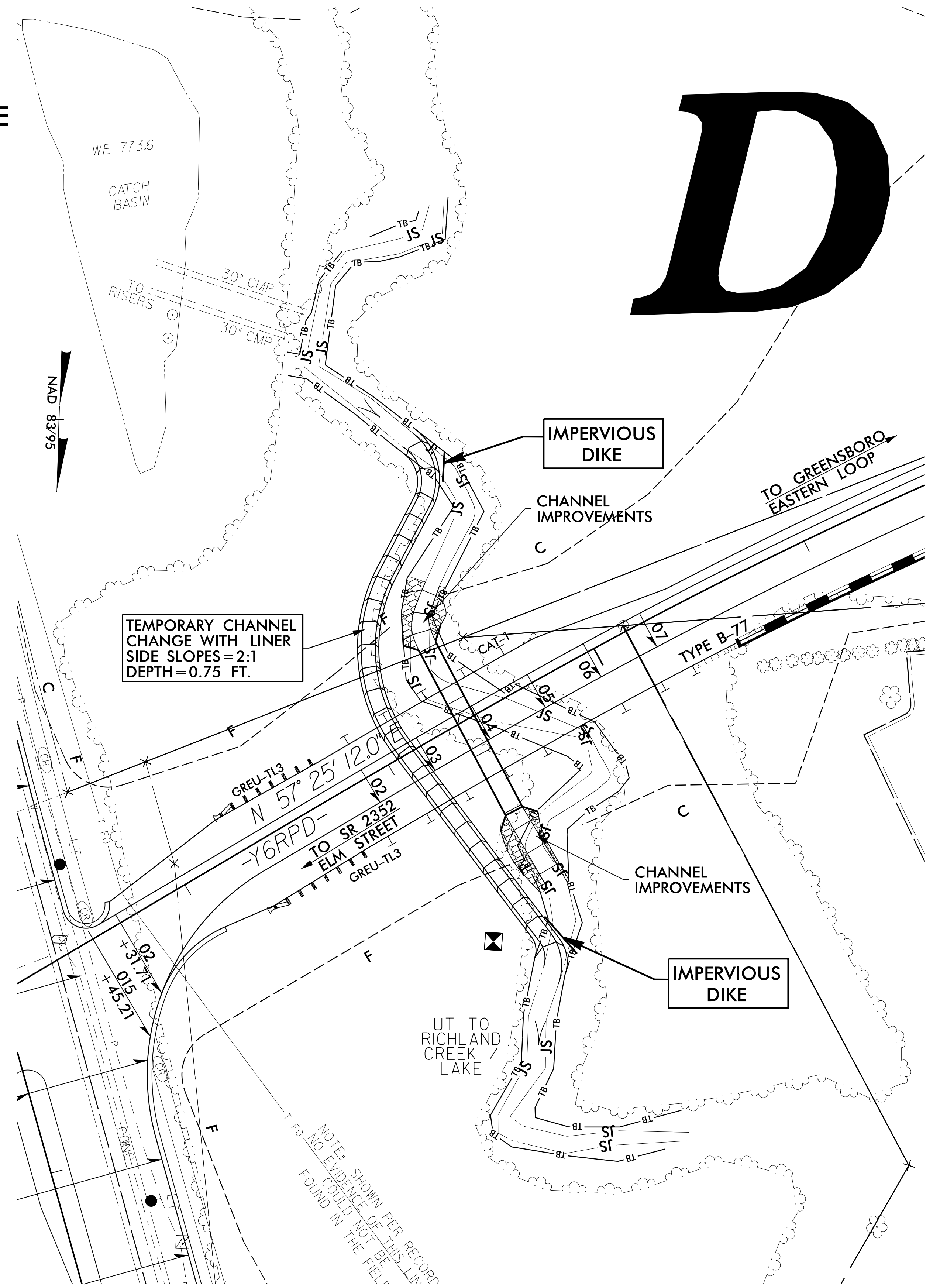
PROJECT REFERENCE NO.
U-2525C
EC-2IC/CONST.18

# CONSTRUCTION PHASING

## CULVERT AT STATION 25+62 -Y6RPD-

### CONSTRUCTION SEQUENCE

1. INSTALL PROPOSED EROSION CONTROL MEASURES
2. INSTALL SPECIAL STILLING BASIN(S) FOR PUMPED EFFLUENT.
3. CONSTRUCT IMPERVIOUS DIKES AND TEMPORARY CHANNEL CHANGE WITH LINER (6 FT. BASE, 0.75 FT. DEPTH, 2:1 SIDE SLOPES).
4. CONSTRUCT PROPOSED CULVERT AND CHANNEL IMPROVEMENTS.
5. REMOVE IMPERVIOUS DIKES, TEMPORARY CHANNEL CHANGE WITH LINER, AND SPECIAL STILLING BASIN(S) AND DIVERT FLOW INTO PROPOSED CULVERT.
6. COMPLETE ROADWAY.



8.17/99

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

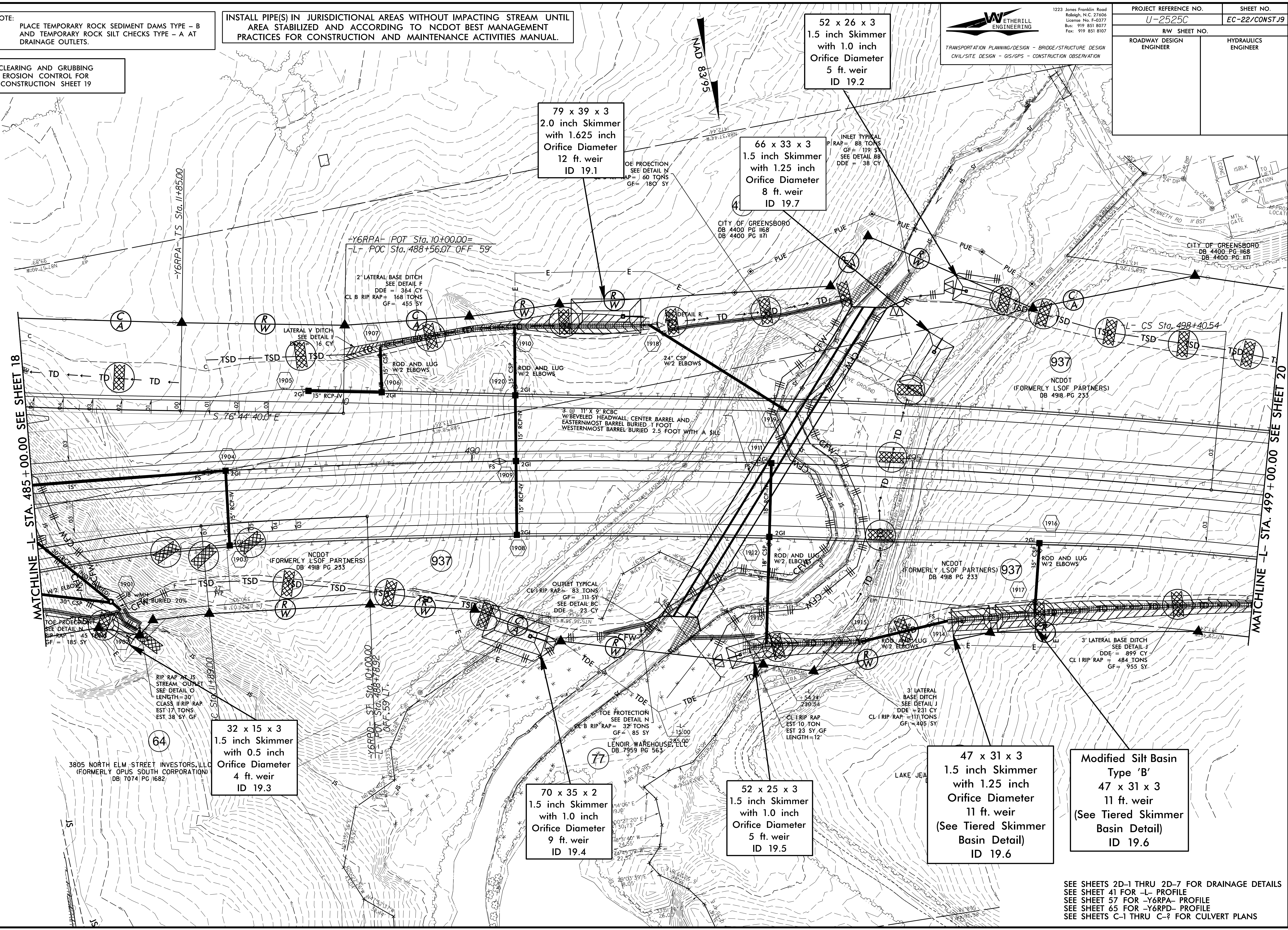
INSTALL PIPE(S) IN JURISDICTIONAL AREAS WITHOUT IMPACTING STREAM UNTIL AREA STABILIZED AND ACCORDING TO NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 19

**WETHERILL ENGINEERING**  
 TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

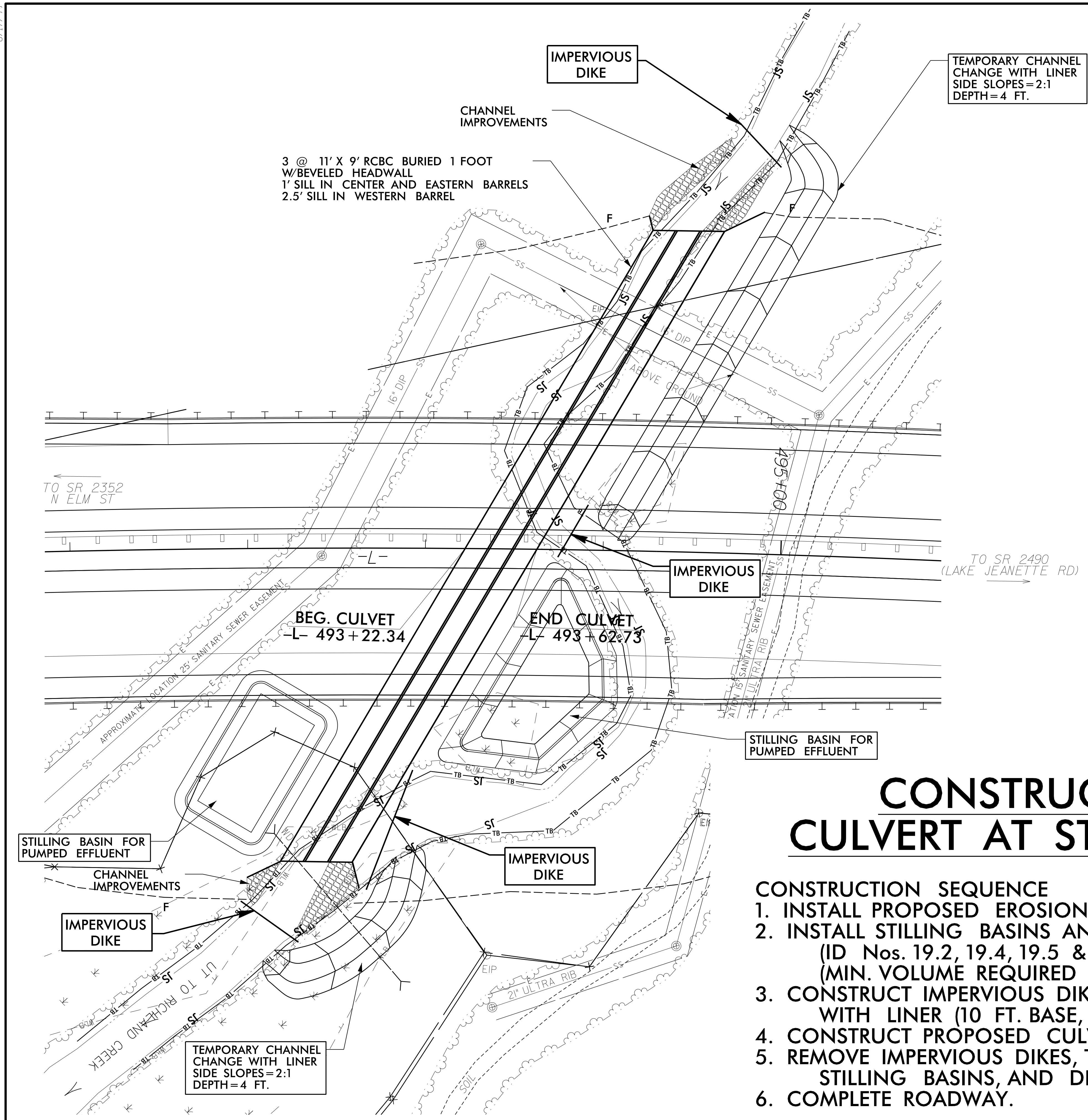
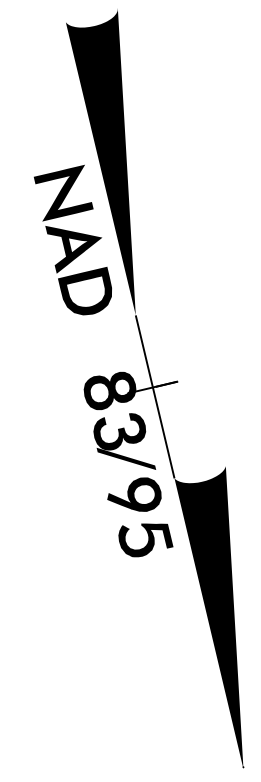
1223 Jones Franklin Road  
 Raleigh, N.C. 27606  
 License No. F-3077  
 Bus: 919 851 8077  
 Fax: 919 851 8107

PROJECT REFERENCE NO. <b>U-2525C</b>	SHEET NO. <b>EC-22/CONST.19</b>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS  
 SEE SHEET 41 FOR -L- PROFILE  
 SEE SHEET 57 FOR -Y6RPA- PROFILE  
 SEE SHEET 65 FOR -Y6RPD- PROFILE  
 SEE SHEETS C-1 THRU C-2 FOR CULVERT PLANS

8.17.95

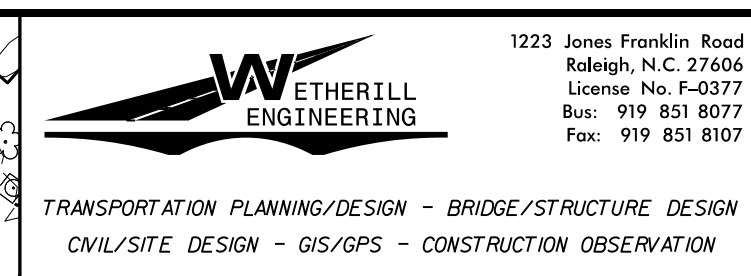


# CONSTRUCTION PHASING CULVERT AT STATION 493+43 -L-

- CONSTRUCTION SEQUENCE**
1. INSTALL PROPOSED EROSION CONTROL MEASURES.
  2. INSTALL STILLING BASINS AND UTILIZE PROPOSED SKIMMER BASINS (ID Nos. 19.2, 19.4, 19.5 & 19.7) FOR PUMPED EFFLUENT (MIN. VOLUME REQUIRED = 960 CY).
  3. CONSTRUCT IMPERVIOUS DIKES AND TEMPORARY CHANNEL CHANGES WITH LINER (10 FT. BASE, 4 FT. DEPTH, 2:1 SIDE SLOPES).
  4. CONSTRUCT PROPOSED CULVERT AND CHANNEL IMPROVEMENTS.
  5. REMOVE IMPERVIOUS DIKES, TEMPORARY CHANNEL CHANGES WITH LINER, STILLING BASINS, AND DIVERT FLOW INTO PROPOSED CULVERT.
  6. COMPLETE ROADWAY.

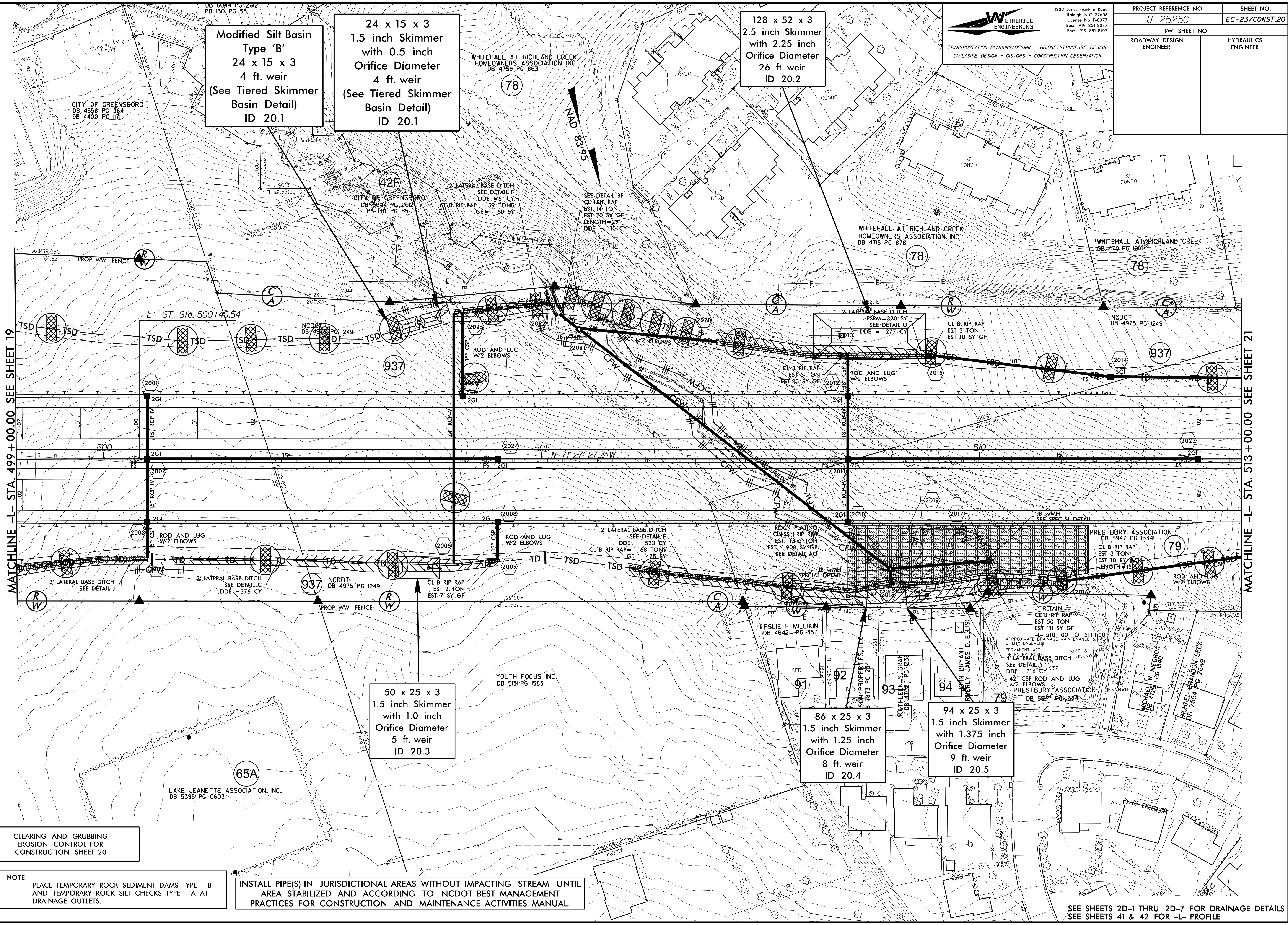


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Fax: 919 851 8107

PROJECT REFERENCE NO. <b>U-2525C</b>	SHEET NO. <b>EC-23/CONST.20</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 20

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

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

SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS  
SEE SHEETS 41 & 42 FOR -L- PROFILE

8.17.799

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

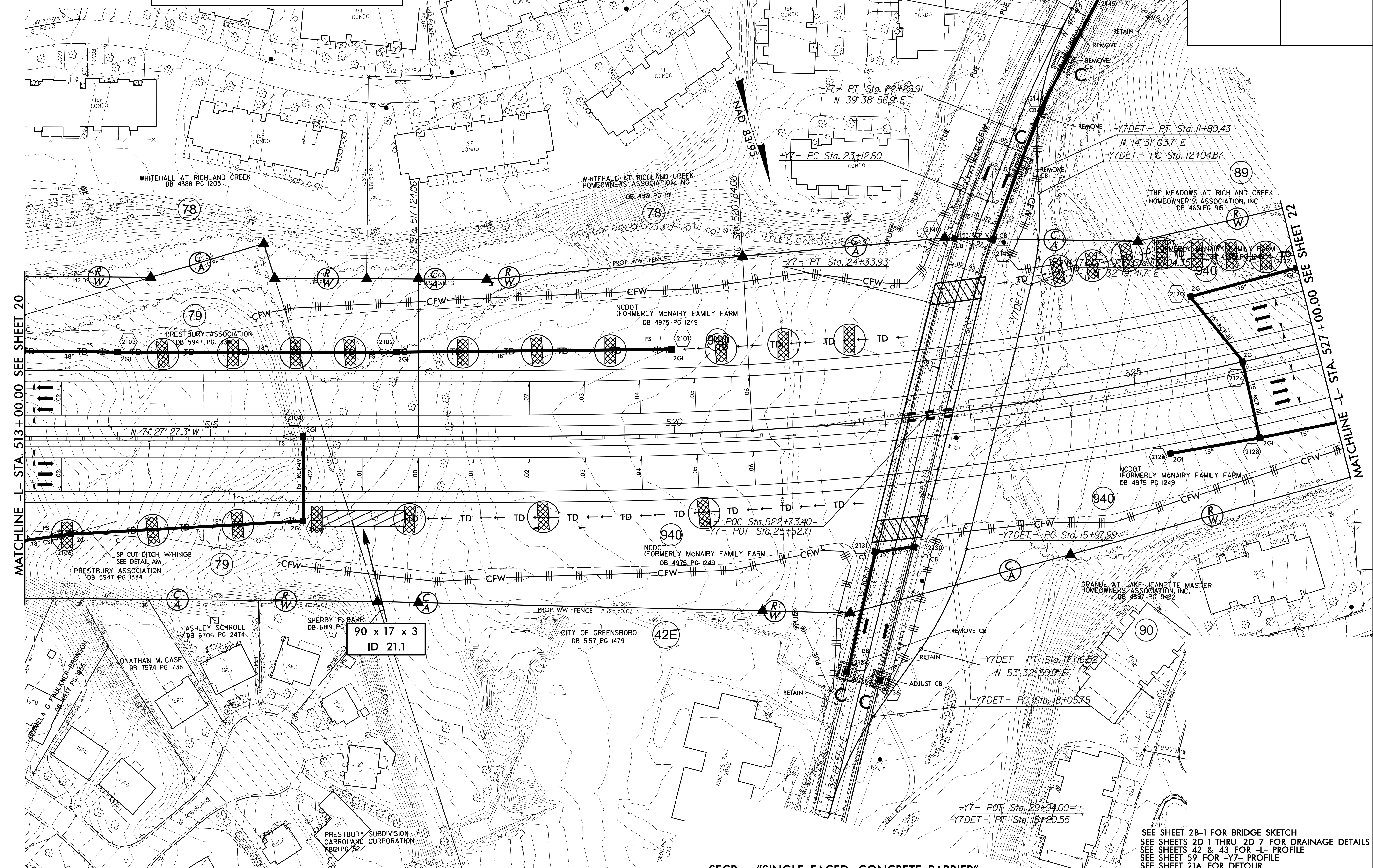
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 21

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAPS TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

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 Raleigh, N.C. 27606  
 License No. F-3077  
 Bus: 919 851 8077  
 Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. <b>U-2525C</b>	SHEET NO. <b>EC-24/CONSTR.21</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



SFCB - "SINGLE FACED CONCRETE BARRIER"

SEE SHEET 2B-1 FOR BRIDGE SKETCH  
 SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS  
 SEE SHEETS 42 & 43 FOR -L- PROFILE  
 SEE SHEET 59 FOR -Y7- PROFILE  
 SEE SHEET 21A FOR DETOUR  
 SEE SHEETS S-1 THRU S-2 FOR STRUCTURE PLANS

8.17.799

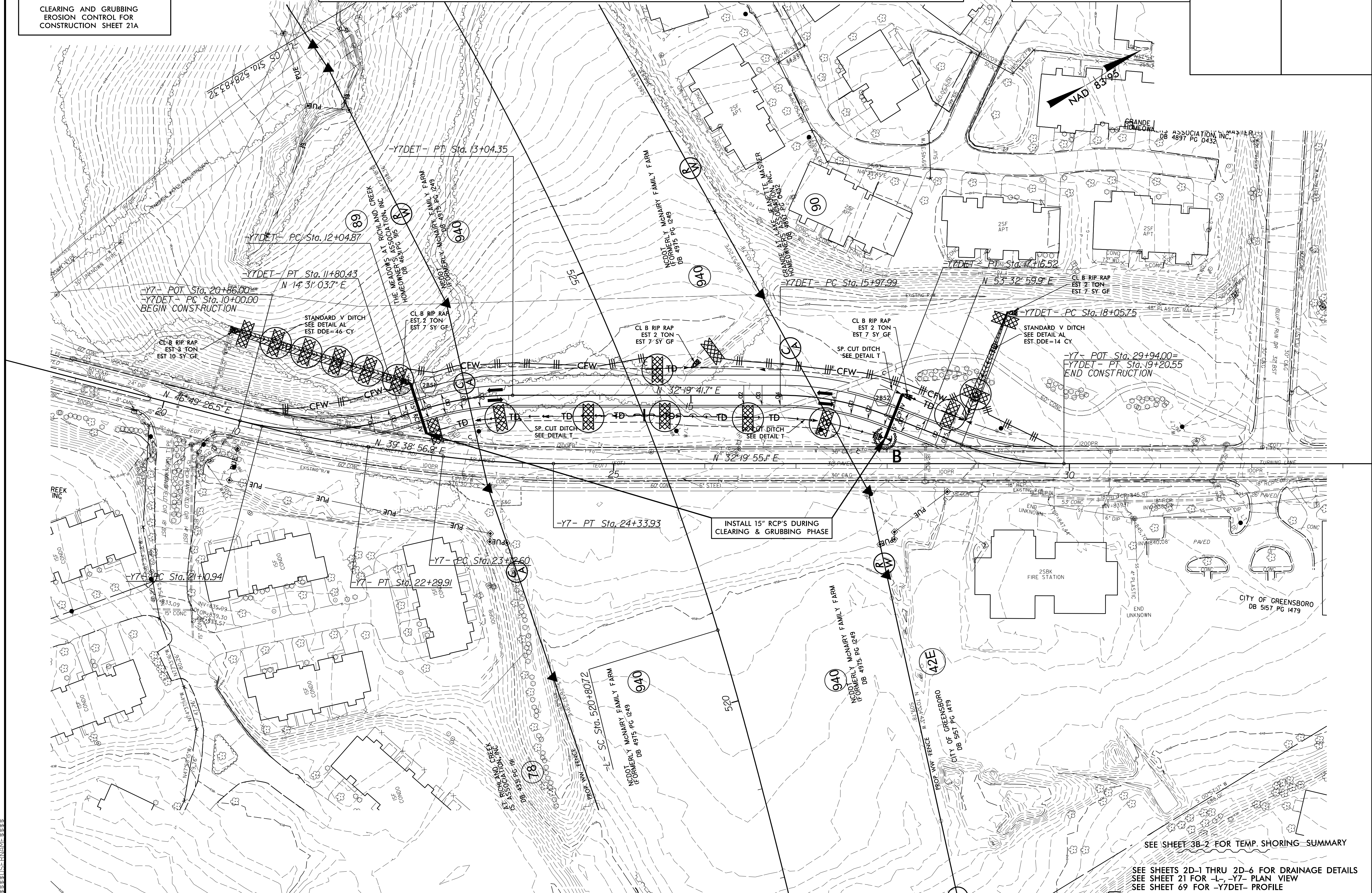
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 21A

# DETAIL OF -Y7DET- (LAKE JEANETTE RD.) VDES. = 35 MPH

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License No. F-0377  
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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.	SHEET NO.
U-2525C	EC-25/CONST.21A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



SEE SHEET 38-2 FOR TEMP. SHORING SUMMARY

SEE SHEETS 2D-1 THRU 2D-6 FOR DRAINAGE DETAILS  
SEE SHEET 21 FOR -L-, -Y7- PLAN VIEW  
SEE SHEET 69 FOR -Y7DET- PROFILE

DATE PLOTTED: 08/17/2009 10:58:58 AM  
PLOTTER: HP DesignJet 5000PS  
SCALE: 1"=40'

8.17/99

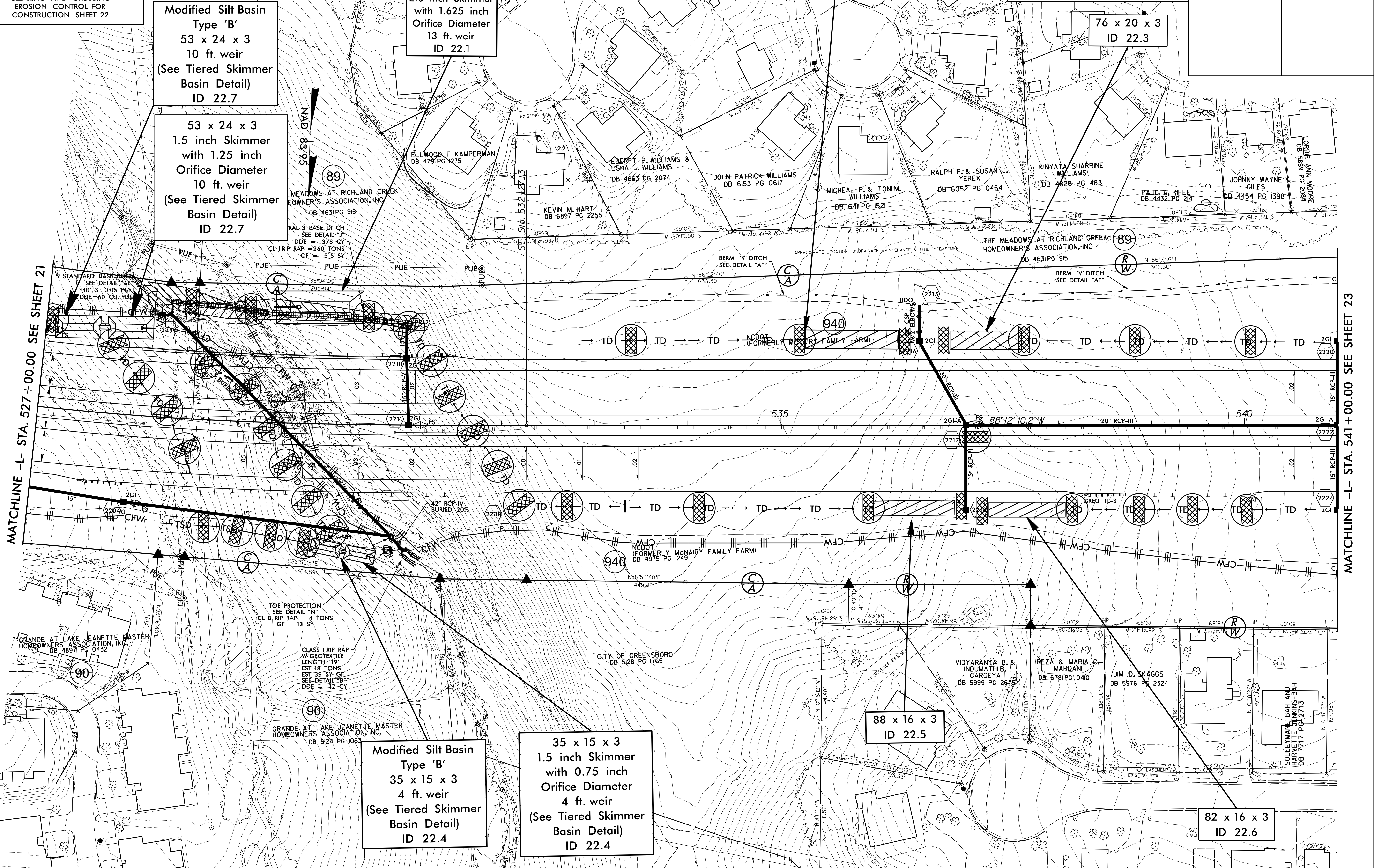
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 22

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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. <b>U-2525C</b>	SHEET NO. <b>EC-26/CONST.22</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



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

SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS  
SEE SHEETS 43 & 44 FOR -L- PROFILE

8.17/99

8.17.799

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

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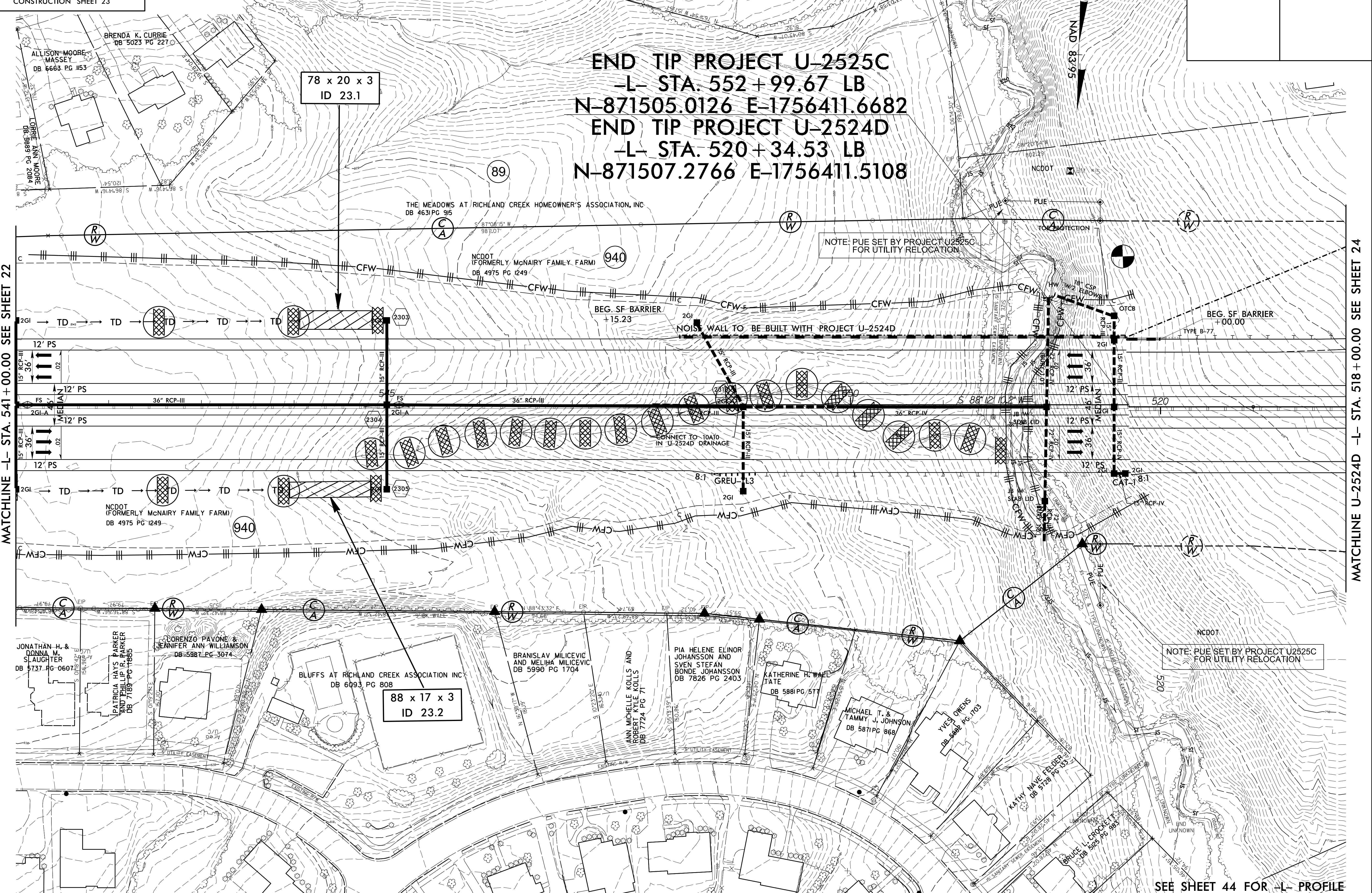
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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. <b>U-2525C</b>	SHEET NO. <b>EC-27/CONST.23</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**END TIP PROJECT U-2525C**  
-L- STA. 552+99.67 LB  
N-871505.0126 E-1756411.6682  
**END TIP PROJECT U-2524D**  
-L- STA. 520+34.53 LB  
N-871507.2766 E-1756411.5108

MATCHLINE -L- STA. 541+00.00 SEE SHEET 22

MATCHLINE U-2524D -L- STA. 518+00.00 SEE SHEET 24



SEE SHEET 44 FOR -L- PROFILE

8.17/99

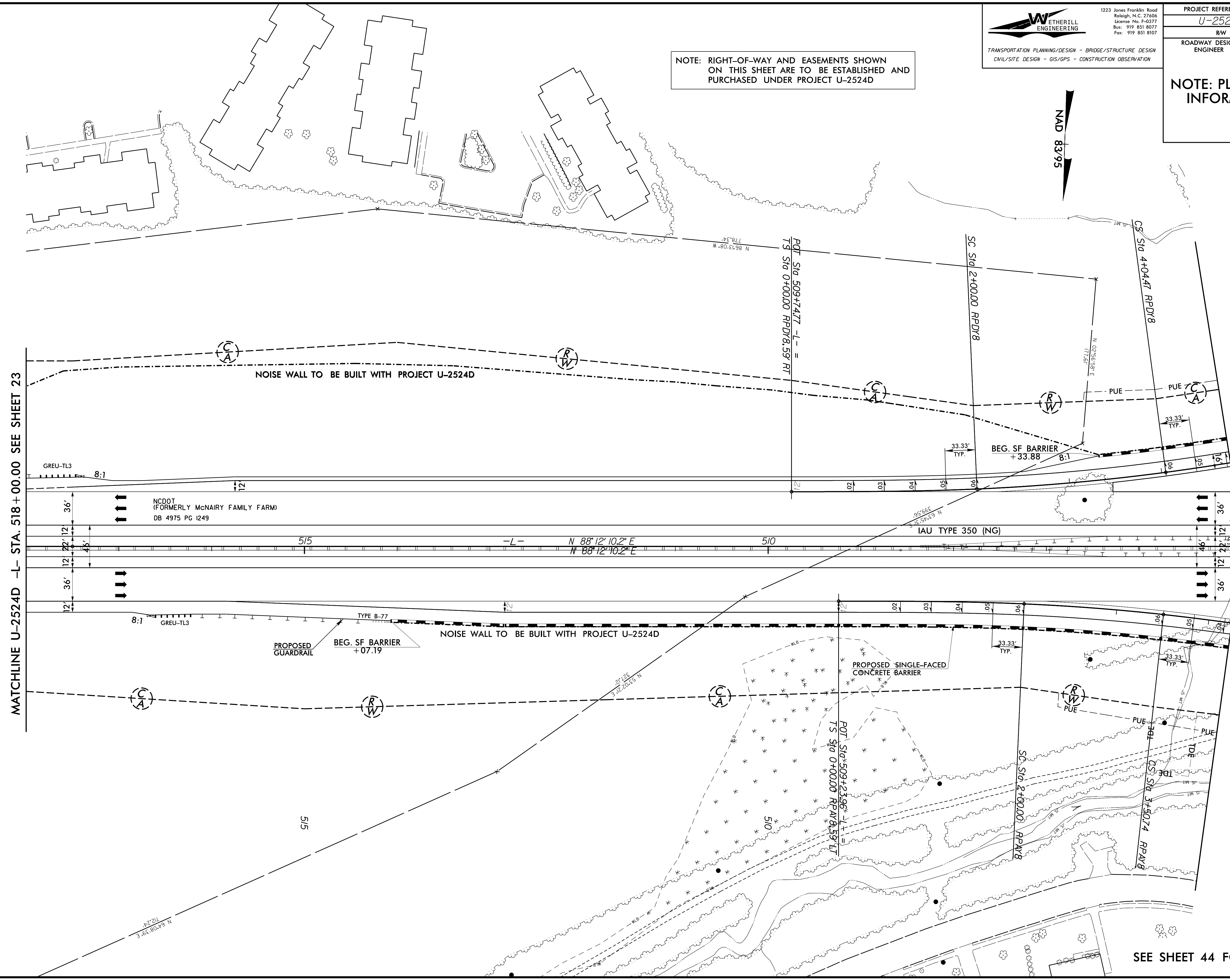
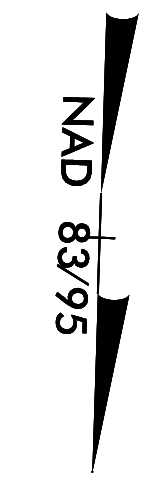
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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.	SHEET NO.
U-2525C	EC-28/CONST.24
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**NOTE: PLAN SHEET FOR INFORMATION ONLY**

**NOTE: RIGHT-OF-WAY AND EASEMENTS SHOWN ON THIS SHEET ARE TO BE ESTABLISHED AND PURCHASED UNDER PROJECT U-2524D**



MATCHLINE U-2524D -L- STA. 518 + 00.00 SEE SHEET 23

MATCHLINE U-2524D -L- STA. 505 + 00.00 SEE SHEET 25

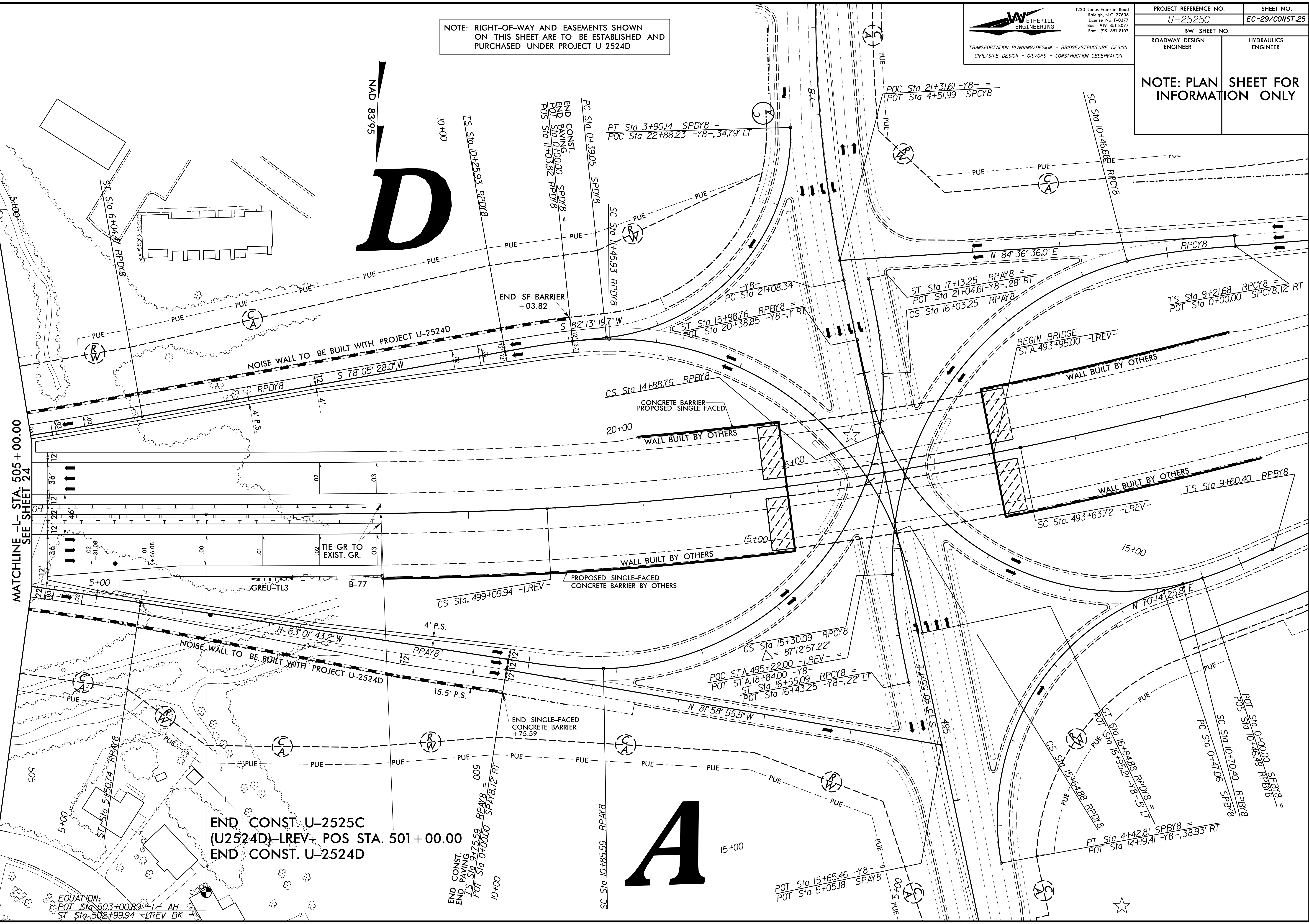
SEE SHEET 44 FOR -L- PROFILE

8.17/99  
 U-2524D  
 EC-28/CONST.24  
 8.17/99

PROJECT REFERENCE NO. <b>U-2525C</b>	SHEET NO. <b>EC-29/CONST.25</b>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE: RIGHT-OF-WAY AND EASEMENTS SHOWN ON THIS SHEET ARE TO BE ESTABLISHED AND PURCHASED UNDER PROJECT U-2524D

NOTE: PLAN SHEET FOR INFORMATION ONLY



**D**

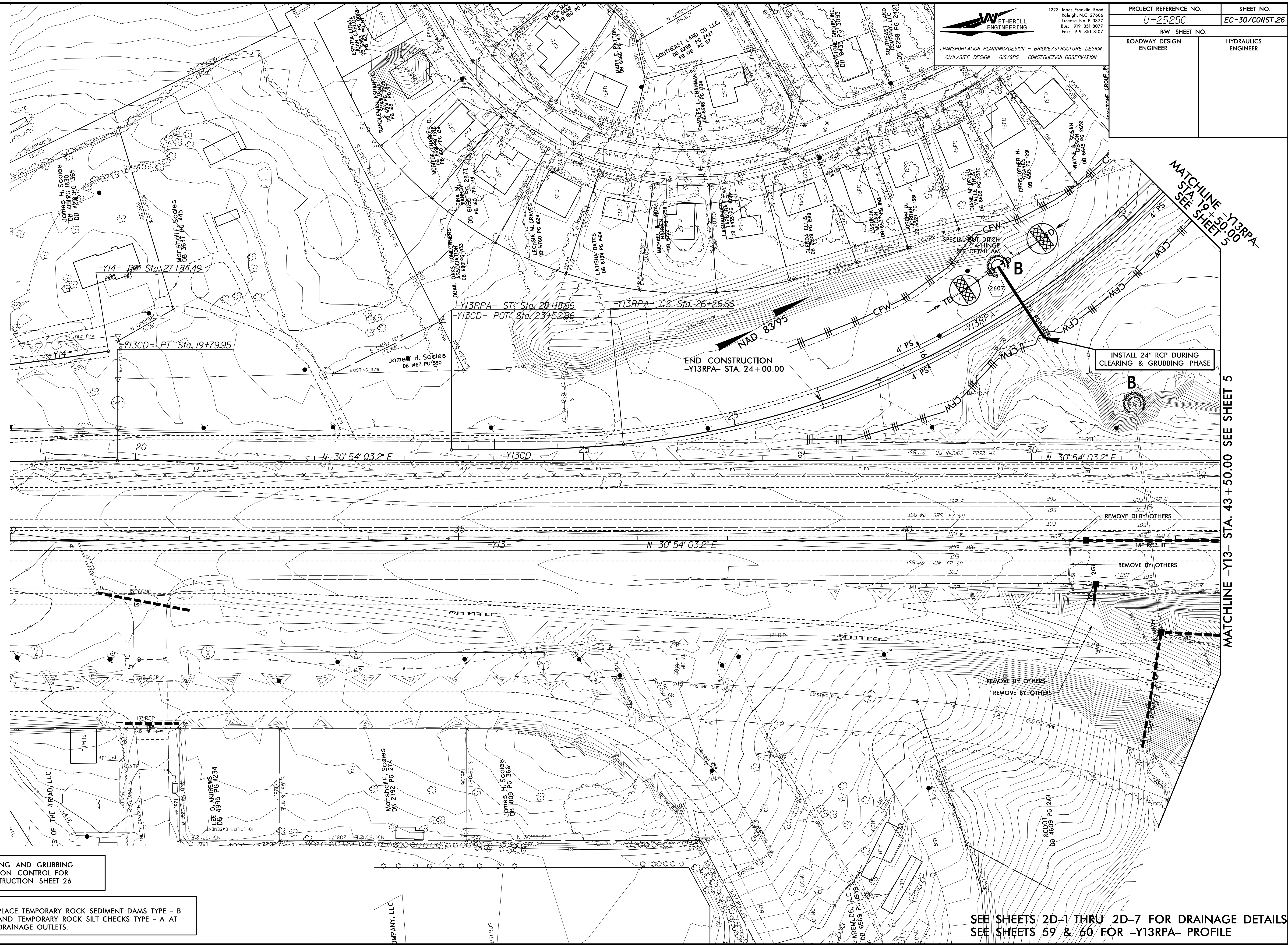
**A**

8.17/99

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Fax: 919 851 8107

PROJECT REFERENCE NO. <b>U-2525C</b>		SHEET NO. <b>EC-30/CONST.26</b>	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION



CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 26

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

SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS  
SEE SHEETS 59 & 60 FOR -Y13RPA- PROFILE

MATCHLINE -Y13- STA. 43+50.00 SEE SHEET 5

MATCHLINE -Y13RPA-  
STA. 19+50.00  
SEE SHEET 5



8.17/99  
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NAD 83/95

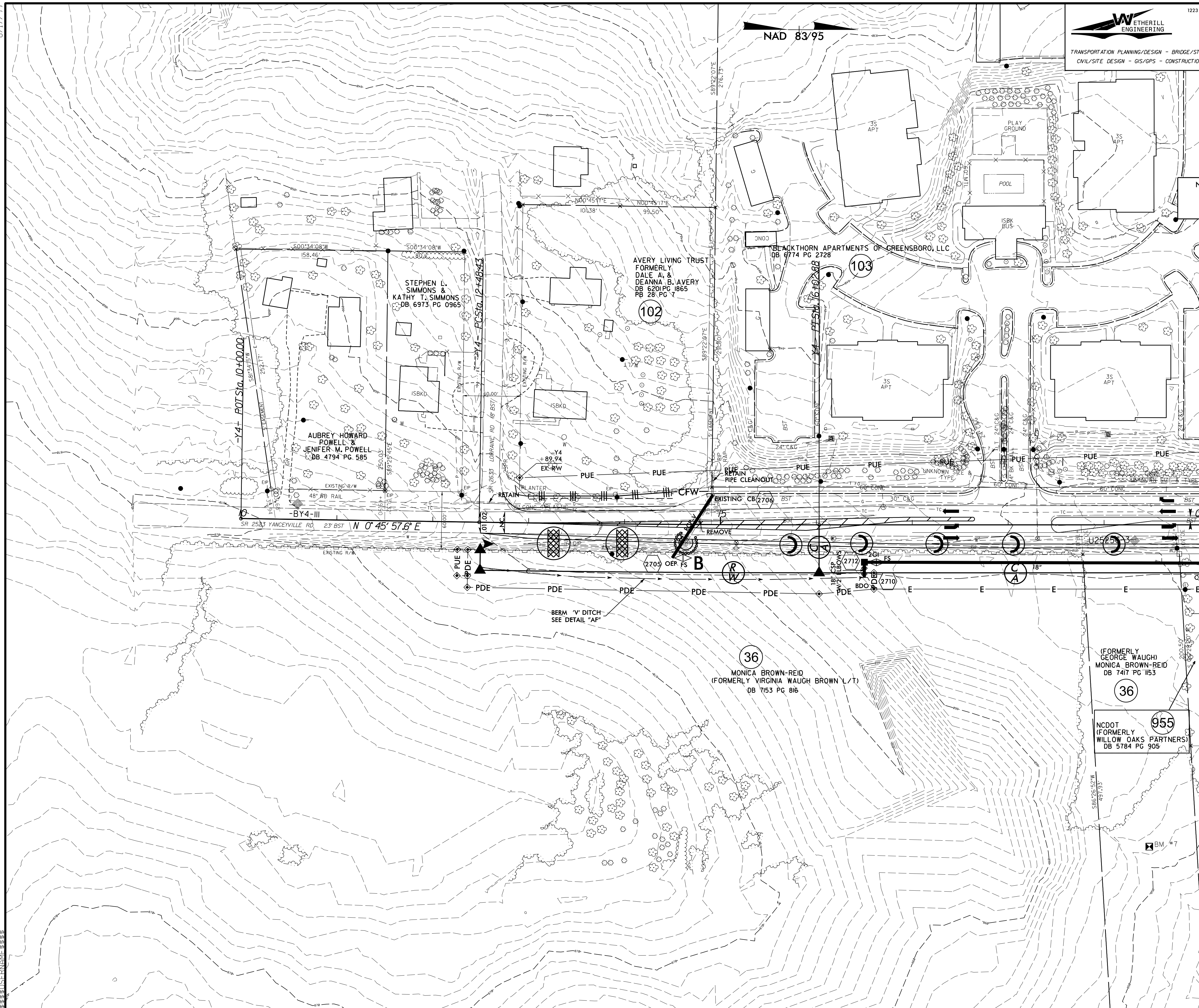
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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. <b>U-2525C</b>	SHEET NO. <b>EC-31/CONST.27</b>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 27



MATCHLINE -Y4- STA. 20 + 00.00 SEE SHEET 14

SEE SHEET 49 FOR -Y4- PROFILE

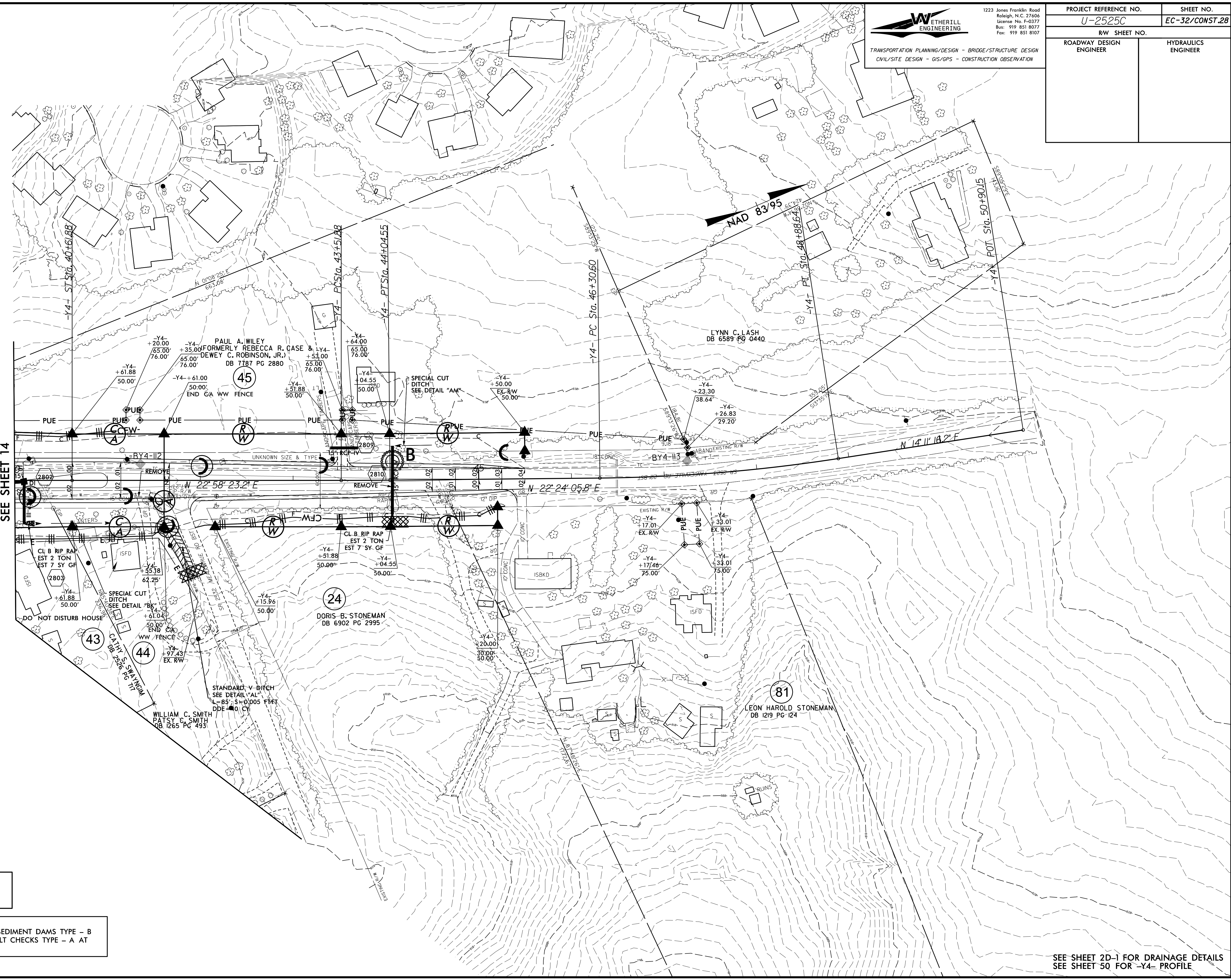
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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.	SHEET NO.
U-2525C	EC-32/CONST.28
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCHLINE -Y4- STA. 40+00.00  
SEE SHEET 14



CLEARING AND GRUBBING  
 EROSION CONTROL FOR  
 CONSTRUCTION SHEET 28

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

SEE SHEET 2D-1 FOR DRAINAGE DETAILS  
 SEE SHEET 50 FOR -Y4- PROFILE

8.17.79

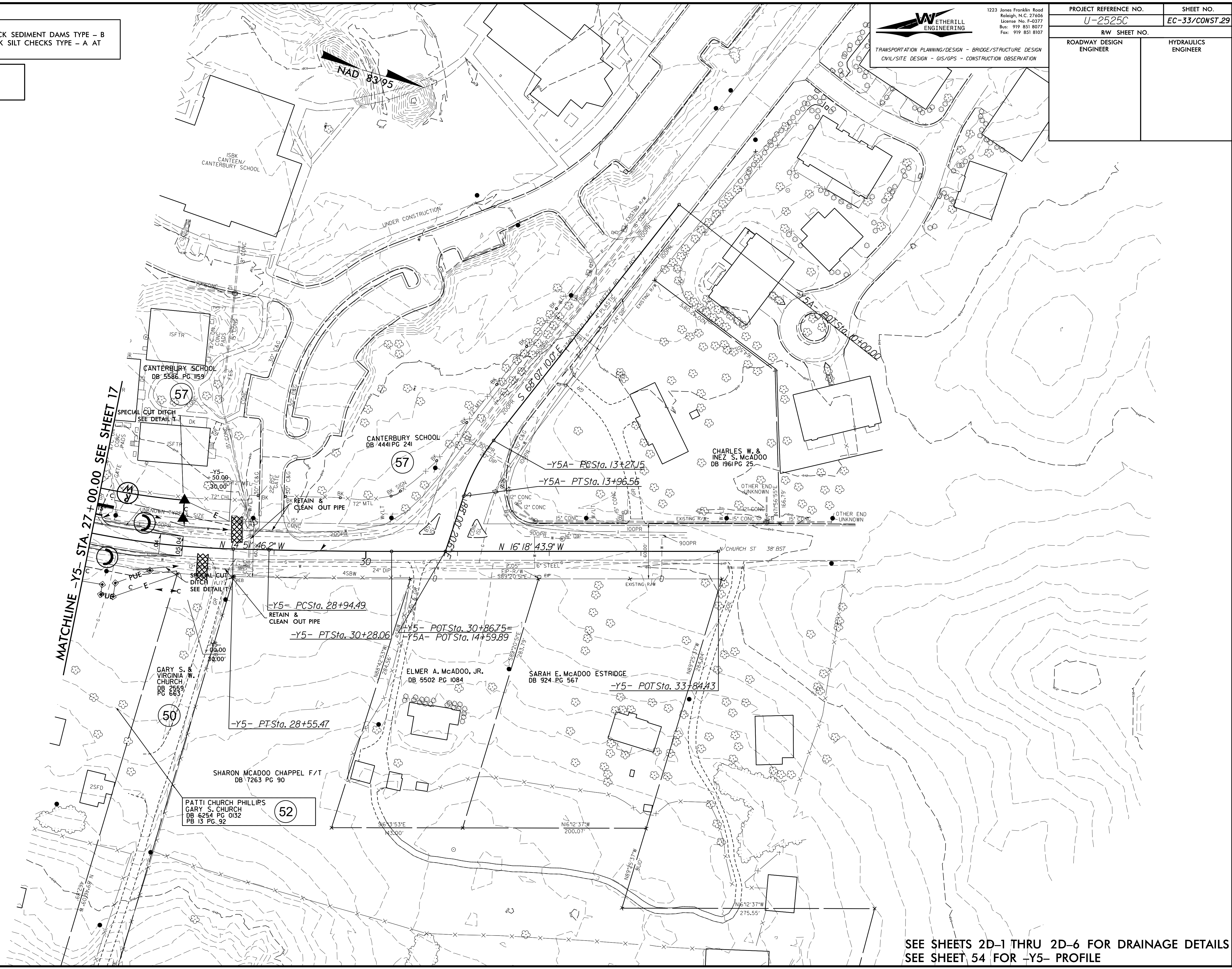
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 29

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 Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.	SHEET NO.
U-2525C	EC-33/CONST.29
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	



SEE SHEETS 2D-1 THRU 2D-6 FOR DRAINAGE DETAILS  
SEE SHEET 54 FOR -Y5- PROFILE

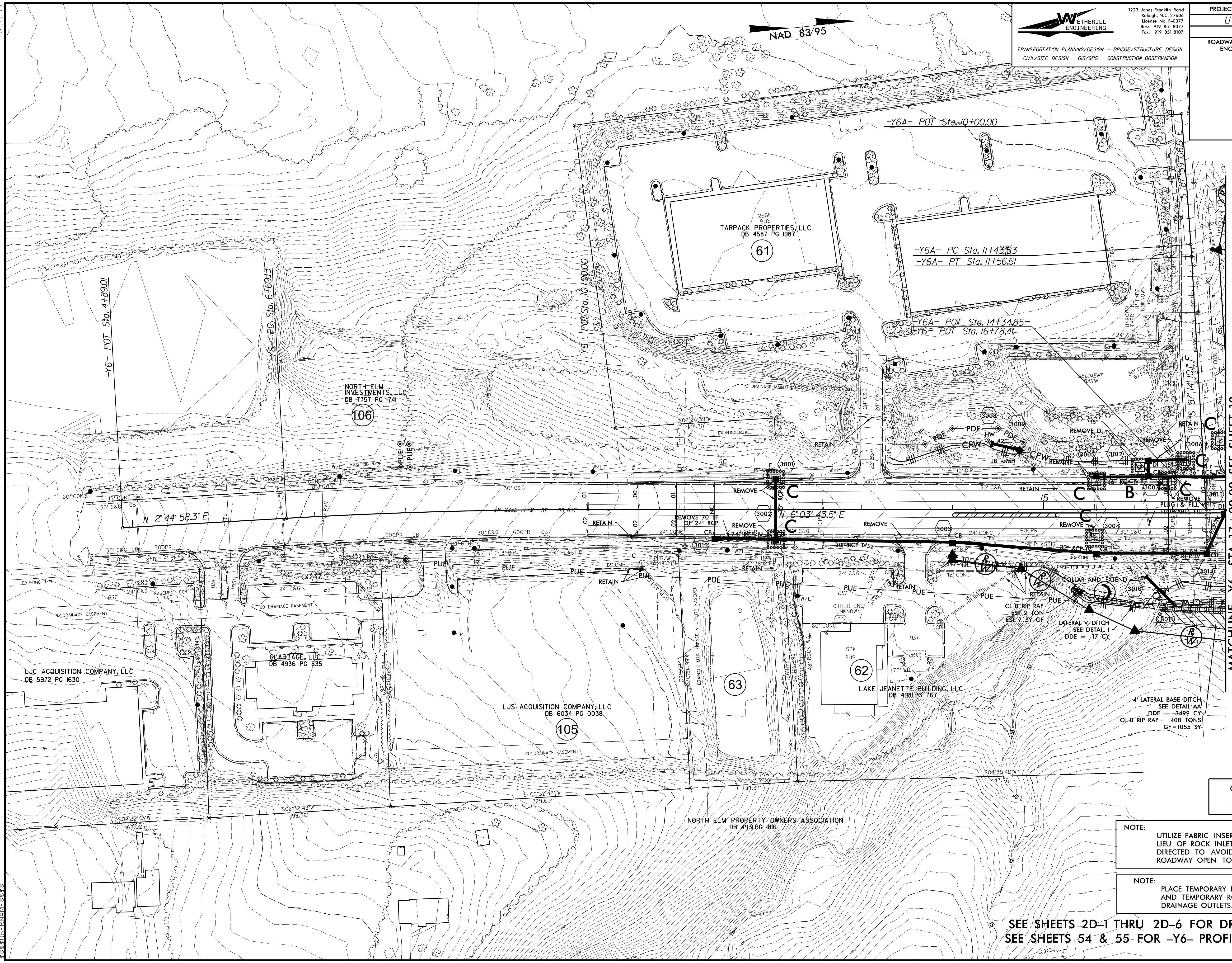
8.17/99

NAD 83/95

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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.	SHEET NO.
U-2525C	EC-34/CONST.30
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCHLINE -Y6- STA. 17+00.00 SEE SHEET 18

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 30

NOTE:  
 UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAPS TYPE-C AS DIRECTED TO AVOID IMPONDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

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

SEE SHEETS 2D-1 THRU 2D-6 FOR DRAINAGE DETAILS  
 SEE SHEETS 54 & 55 FOR -Y6- PROFILE

8.17/99

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

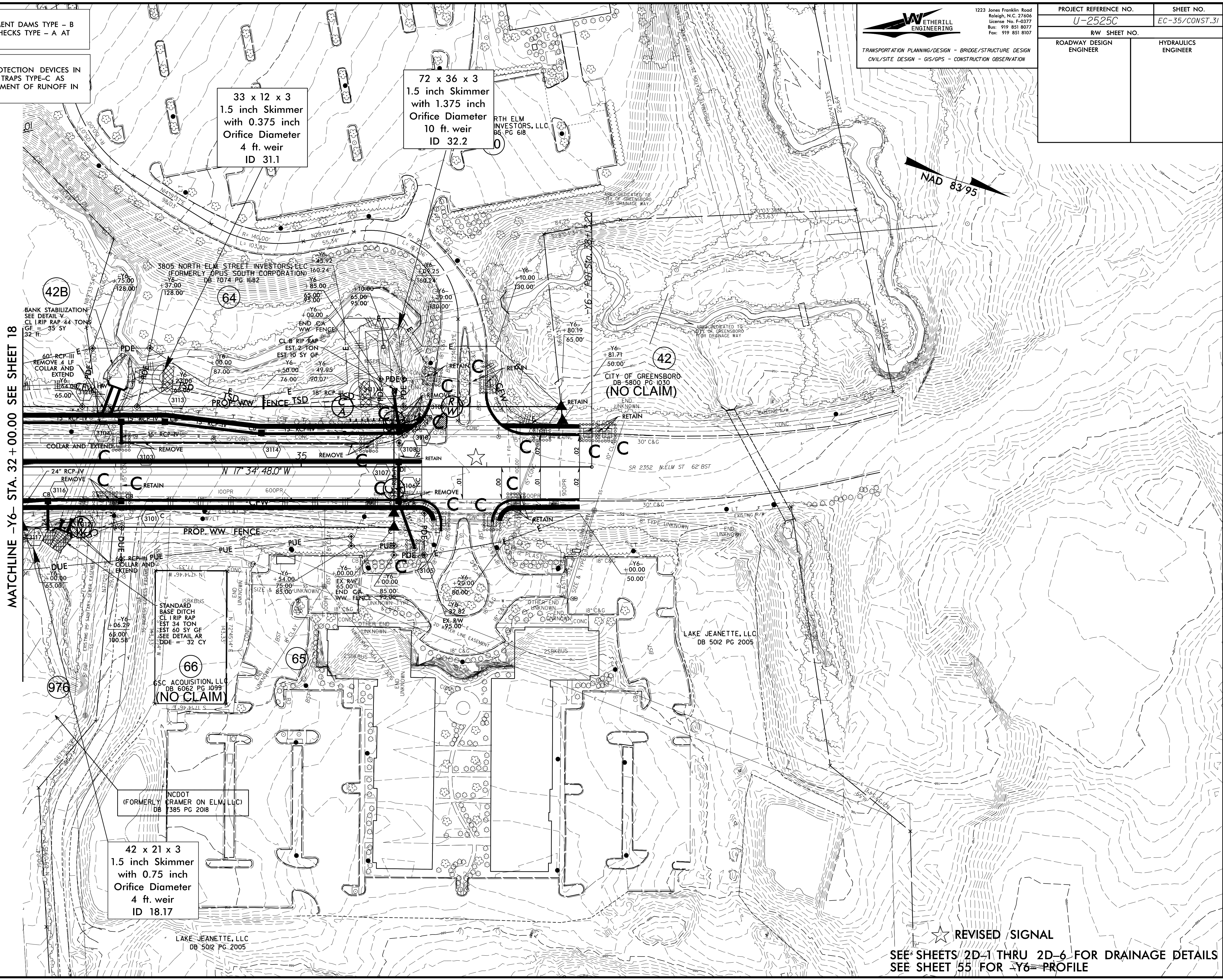
NOTE:  
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAPS TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 31

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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.	SHEET NO.
U-2525C	EC-35/CONST.31
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCHLINE -Y6- STA. 32 + 00.00 SEE SHEET 18

33 x 12 x 3  
1.5 inch Skimmer  
with 0.375 inch  
Orifice Diameter  
4 ft. weir  
ID 31.1

72 x 36 x 3  
1.5 inch Skimmer  
with 1.375 inch  
Orifice Diameter  
10 ft. weir  
ID 32.2

42B

64

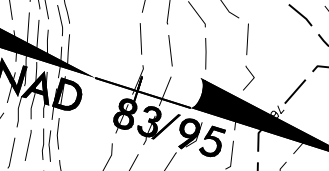
42

66

65

976

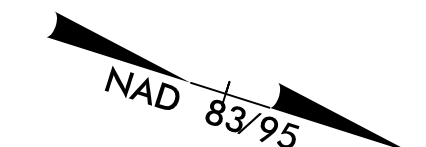
42 x 21 x 3  
1.5 inch Skimmer  
with 0.75 inch  
Orifice Diameter  
4 ft. weir  
ID 18.17



★ REVISED SIGNAL

SEE SHEETS 2D-1 THRU 2D-6 FOR DRAINAGE DETAILS  
SEE SHEET 55 FOR -Y6- PROFILE

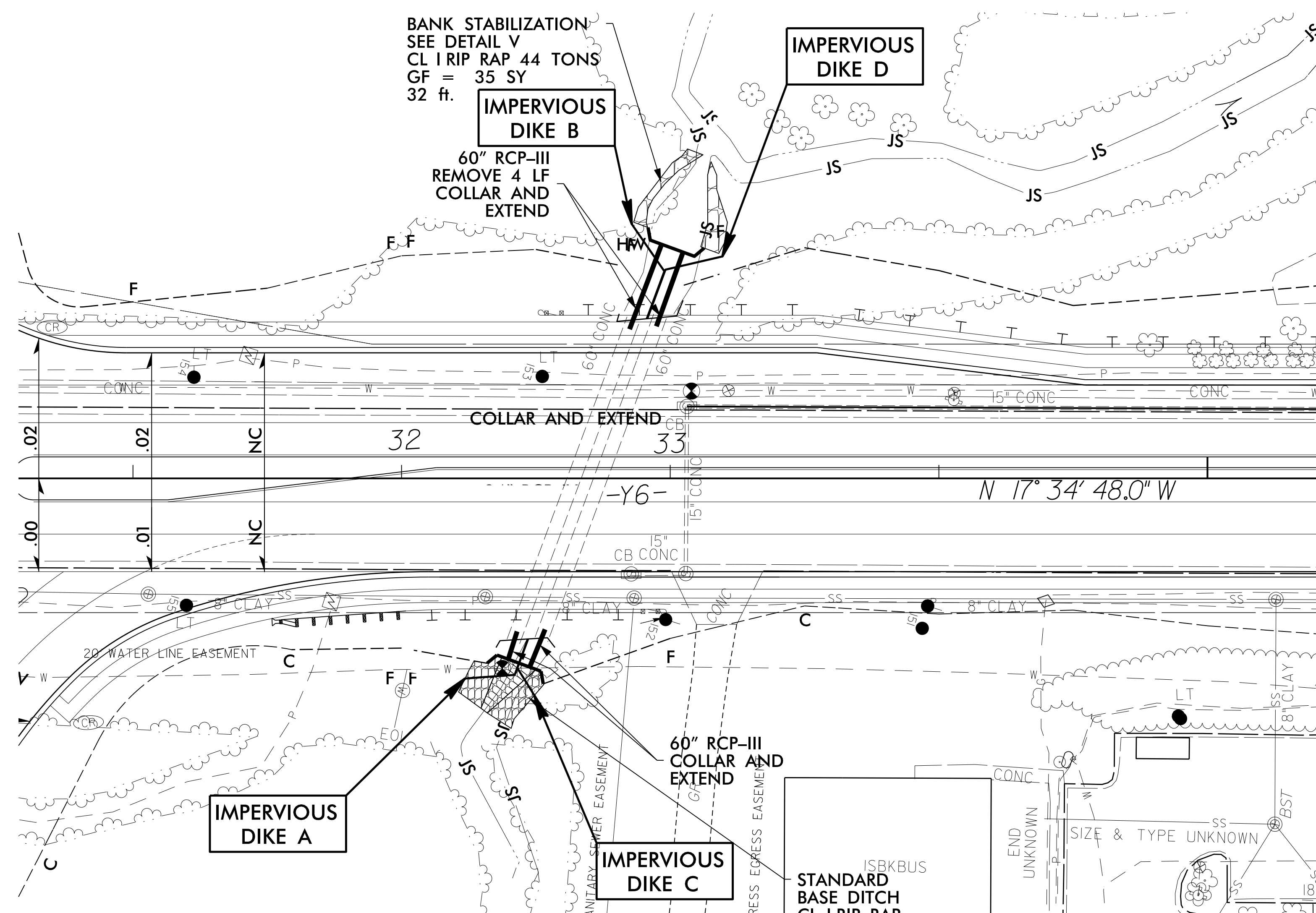
8.17/99



# CONSTRUCTION PHASING CULVERT AT STATION 32+69 -Y6-

## CONSTRUCTION SEQUENCE

1. INSTALL PROPOSED EROSION CONTROL MEASURES
2. INSTALL SPECIAL STILLING BASIN(S) FOR PUMPED EFFLUENT.
3. CONSTRUCT IMPERVIOUS DIKES A & B.
4. REMOVE PORTION OF EXISTING HW AND EXISTING PIPE OF THE LEFTMOST BARREL LOOKING DOWNSTREAM ON THE UPSTREAM AND DOWNSTREAM ENDS
5. COLLAR AND EXTEND LEFTMOST BARREL LOOKING DOWNSTREAM ON THE UPSTREAM AND DOWNSTREAM ENDS. CONSTRUCT CORRESPONDING PORTION OF PIPE HEADWALLS.
6. REMOVE IMPERVIOUS DIKES A & B AND DIVERT FLOW INTO THE LEFTMOST BARREL LOOKING DOWNSTREAM BY CONSTRUCTING IMPERVIOUS DIKES C & D.
7. REMOVE REMAINING PORTION OF EXISTING HW AND EXISTING PIPE OF THE RIGHTMOST BARREL LOOKING DOWNSTREAM ON THE UPSTREAM AND DOWNSTREAM ENDS
8. COLLAR AND EXTEND RIGHTMOST BARREL LOOKING DOWNSTREAM ON THE UPSTREAM AND DOWNSTREAM ENDS. CONSTRUCT REMAINING PORTIONS OF PIPE HEADWALLS.
9. REMOVE IMPERVIOUS DIKES C & D AND SPECIAL STILLING BASIN(S) AND COMPLETE ROADWAY.



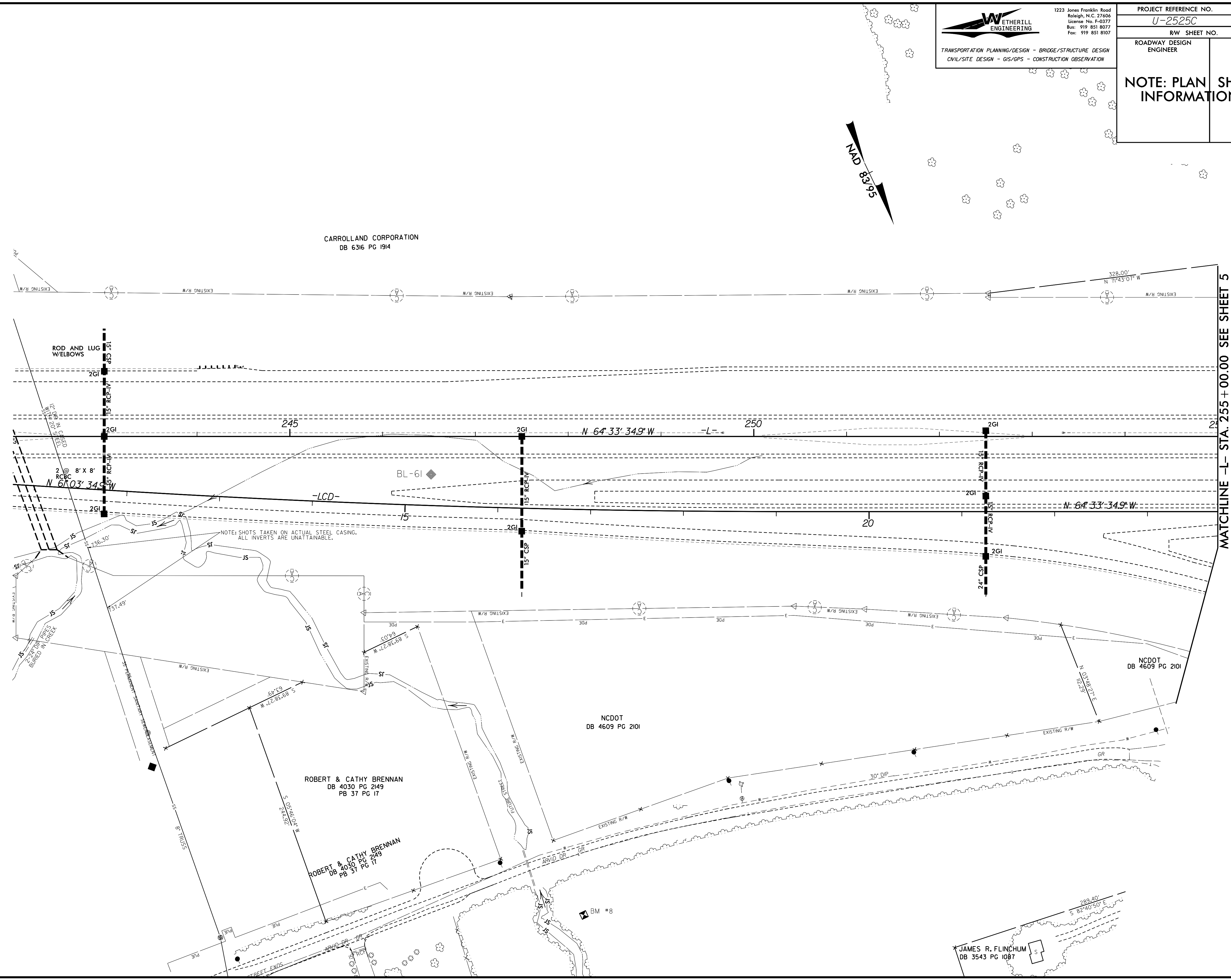
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 TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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PROJECT REFERENCE NO. <b>U-2525C</b>	SHEET NO. <b>EC-36/CONST.4</b>
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

**NOTE: PLAN SHEET FOR INFORMATION ONLY**

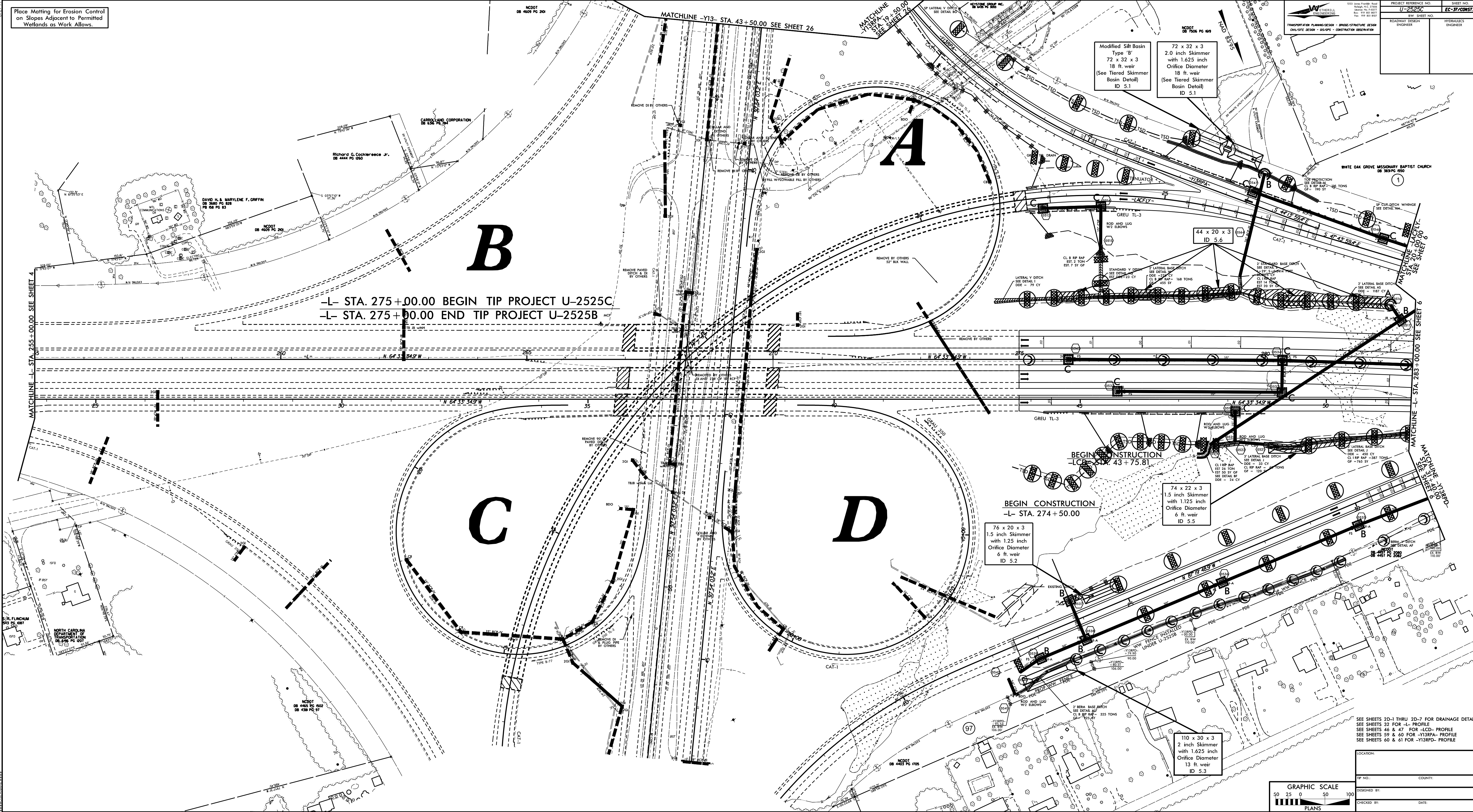


MATCHLINE -L- STA. 255 + 00.00 SEE SHEET 5

Vertical text along the left margin, likely a scale or revision list.

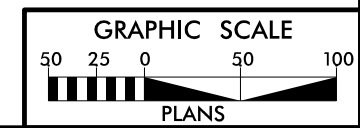
Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

PROJECT REFERENCE NO. <b>U-2525C</b>	SHEET NO. <b>EC-37/02ST.5</b>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



-L- STA. 275+00.00 BEGIN TIP PROJECT U-2525C  
-L- STA. 275+50.00 END TIP PROJECT U-2525B

BEGIN CONSTRUCTION  
-L- STA. 274+50.00



SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS  
SEE SHEETS 32 FOR -L- PROFILE  
SEE SHEETS 46 & 47 FOR -LCD- PROFILE  
SEE SHEETS 59 & 60 FOR -Y138RA- PROFILE  
SEE SHEETS 60 & 61 FOR -Y138RD- PROFILE

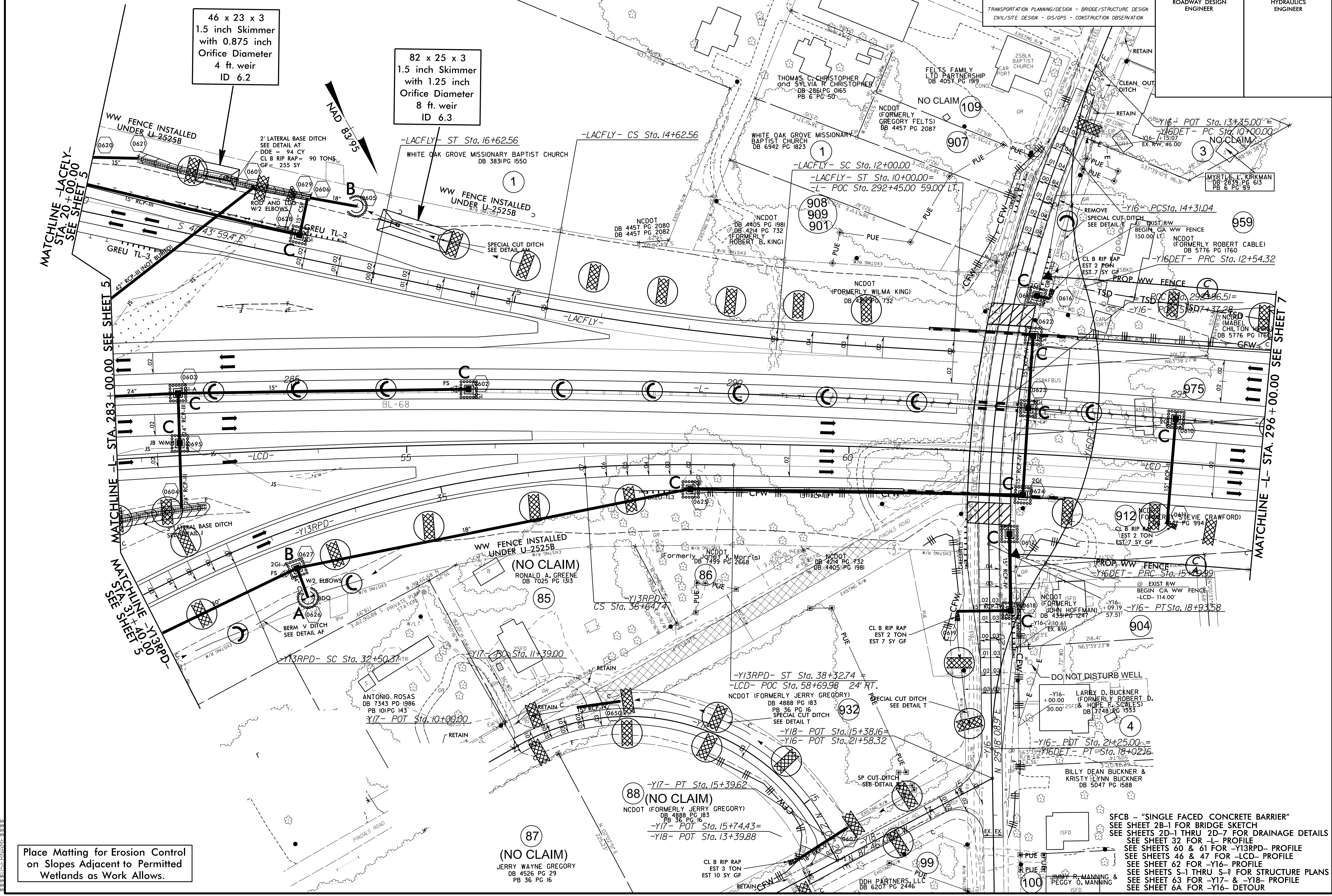
LOCATION:	
TP NO.:	COUNTY:
DESIGNED BY:	CHECKED BY:
	DATE:



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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.	SHEET NO.
U-2525C	EC-38/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



46 x 23 x 3  
 1.5 inch Skimmer  
 with 0.875 inch  
 Orifice Diameter  
 4 ft. weir  
 ID 6.2

82 x 25 x 3  
 1.5 inch Skimmer  
 with 1.25 inch  
 Orifice Diameter  
 8 ft. weir  
 ID 6.3

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

SFCB - "SINGLE FACED CONCRETE BARRIER"  
 SEE SHEET 2B-1 FOR BRIDGE SKETCH  
 SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS  
 SEE SHEET 32 FOR -L- PROFILE  
 SEE SHEETS 60 & 61 FOR -Y13RPD- PROFILE  
 SEE SHEETS 46 & 47 FOR -LCD- PROFILE  
 SEE SHEET 62 FOR -Y16- PROFILE  
 SEE SHEETS S-1 THRU S-3 FOR STRUCTURE PLANS  
 SEE SHEET 63 FOR -Y17- & -Y18- PROFILE  
 SEE SHEET 6A FOR -Y16- DETOUR

87 (NO CLAIM)  
 JERRY WAYNE GREGORY  
 DB 4526 PG 29  
 PB 36 PG 16

88 (NO CLAIM)  
 NCDOT (FORMERLY JERRY GREGORY)  
 DB 4888 PG 183  
 PB 36 PG 16  
 -Y17- POT Sta. 15+74.43=  
 -Y18- POT Sta. 13+39.88

(NO CLAIM)  
 RONALD A. GREENE  
 DB 7025 PG 1313

86 (NO CLAIM)  
 NCDOT (Formerly Janet K. Morris)  
 DB 7499 PG 2668

DO NOT DISTURB WELL  
 -Y16- POT Sta. 21+25.00=  
 -Y16DET- POT Sta. 18+02.76

4  
 LARRY D. BUCKNER  
 (FORMERLY ROBERT D. HOPE II, SCALES)  
 DB 7748 PG 1533

BILLY DEAN BUCKNER &  
 KRISTY LYNN BUCKNER  
 DB 5047 PG 1588

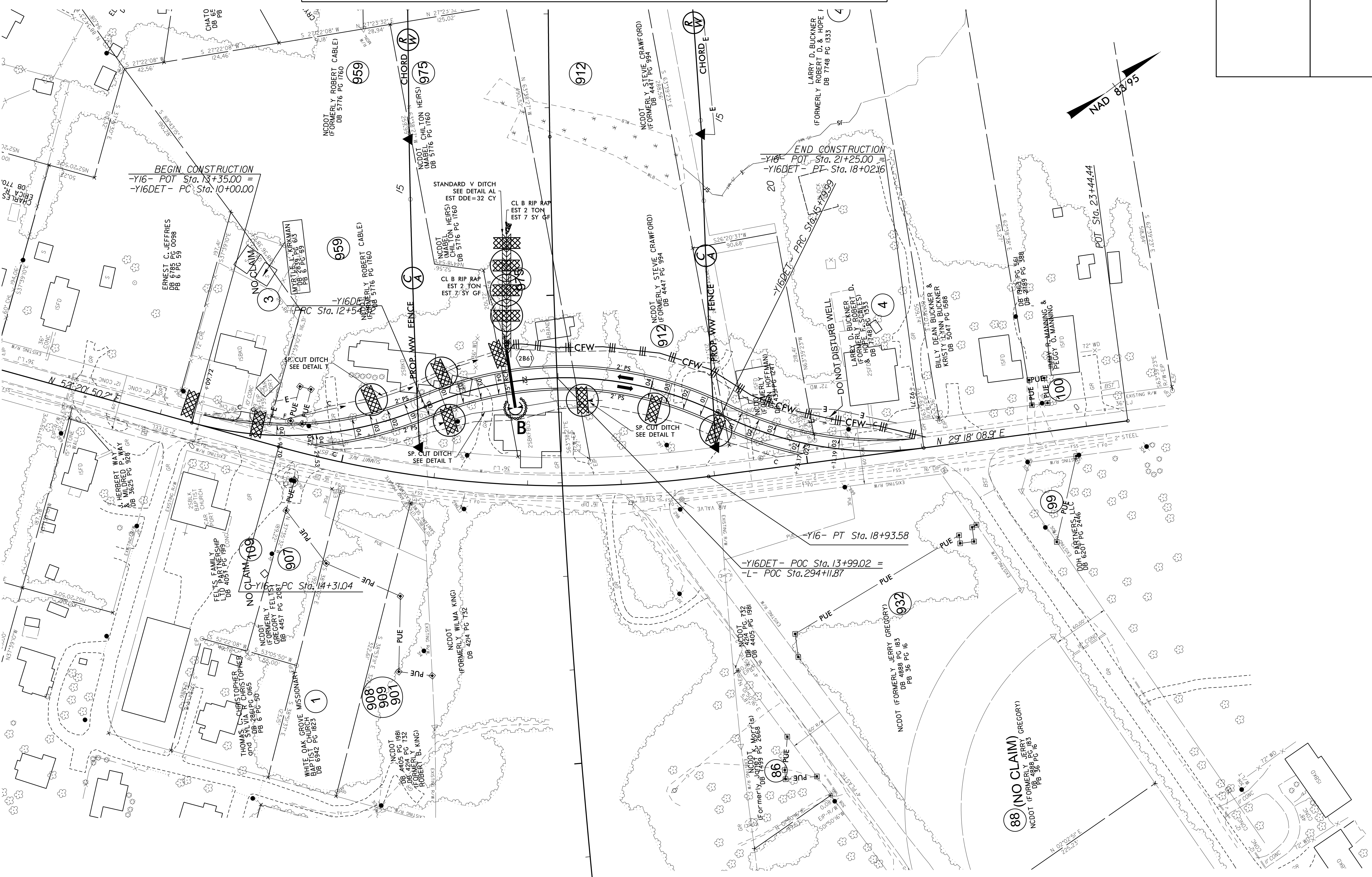
99  
 DDH PARTNERS, LLC  
 DB 6207 PG 2446

# DETAIL OF -Y16DET- (SUMMIT AVE.)

VDES. = 35 MPH

PROJECT REFERENCE NO.	SHEET NO.
U-2525C	EC-39/CONST.6A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

8.17/99



SEE SHEET 6 FOR -L-, Y16DET- FOR PLAN VIEW  
SEE SHEET 69 FOR -Y16DET- PROFILE

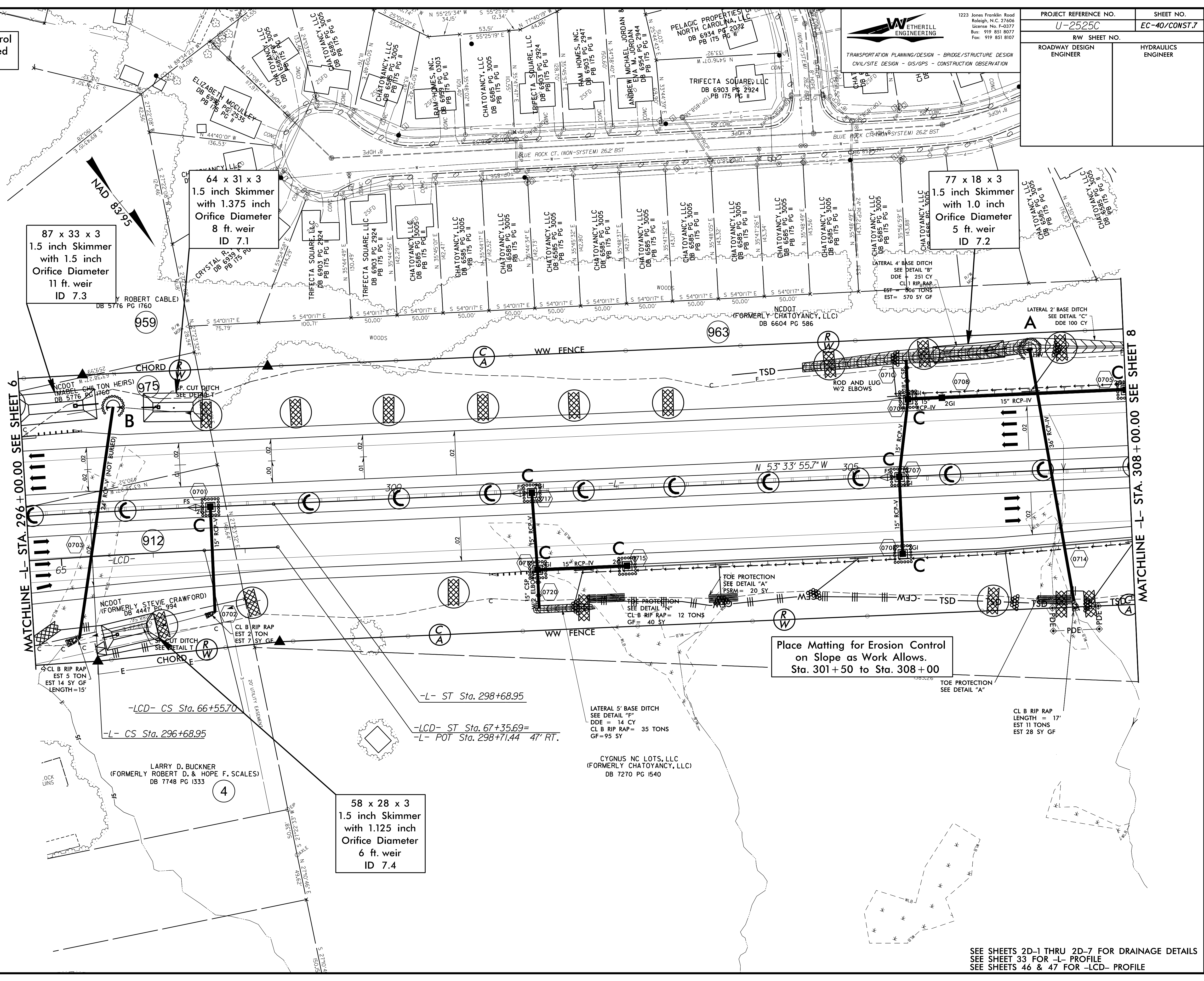
8.17/99

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

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 TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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PROJECT REFERENCE NO. <b>U-2525C</b>	SHEET NO. <b>EC-40/CONST.7</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCHLINE -L- STA. 296+00.00 SEE SHEET 6

MATCHLINE -L- STA. 308+00.00 SEE SHEET 8

SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS  
SEE SHEET 33 FOR -L- PROFILE  
SEE SHEETS 46 & 47 FOR -LCD- PROFILE

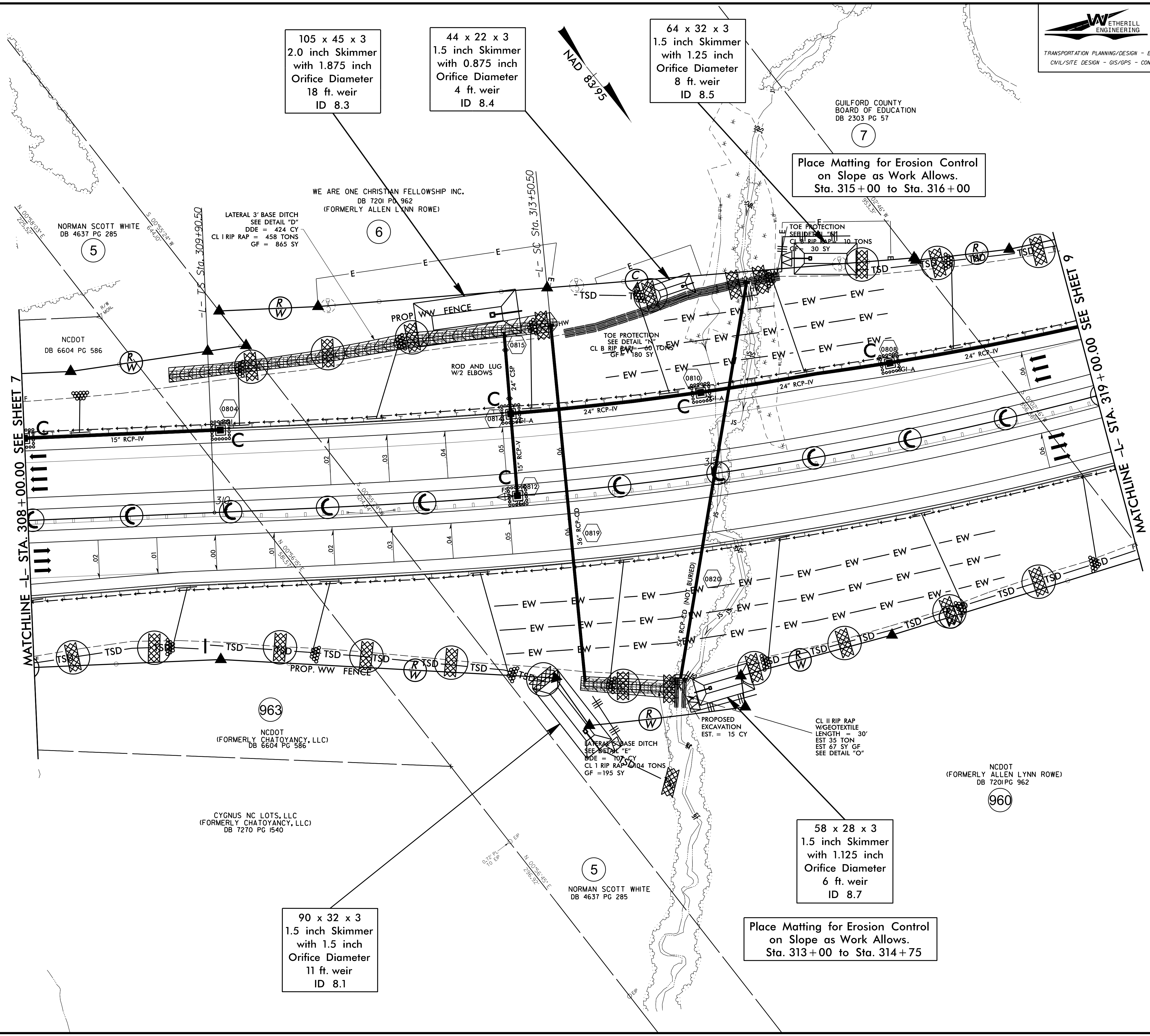
8.17/99

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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. <b>U-2525C</b>	SHEET NO. <b>EC-41/CONST.B</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



105 x 45 x 3  
 2.0 inch Skimmer  
 with 1.875 inch  
 Orifice Diameter  
 18 ft. weir  
 ID 8.3

44 x 22 x 3  
 1.5 inch Skimmer  
 with 0.875 inch  
 Orifice Diameter  
 4 ft. weir  
 ID 8.4

64 x 32 x 3  
 1.5 inch Skimmer  
 with 1.25 inch  
 Orifice Diameter  
 8 ft. weir  
 ID 8.5

Place Matting for Erosion Control  
 on Slope as Work Allows.  
 Sta. 315+00 to Sta. 316+00

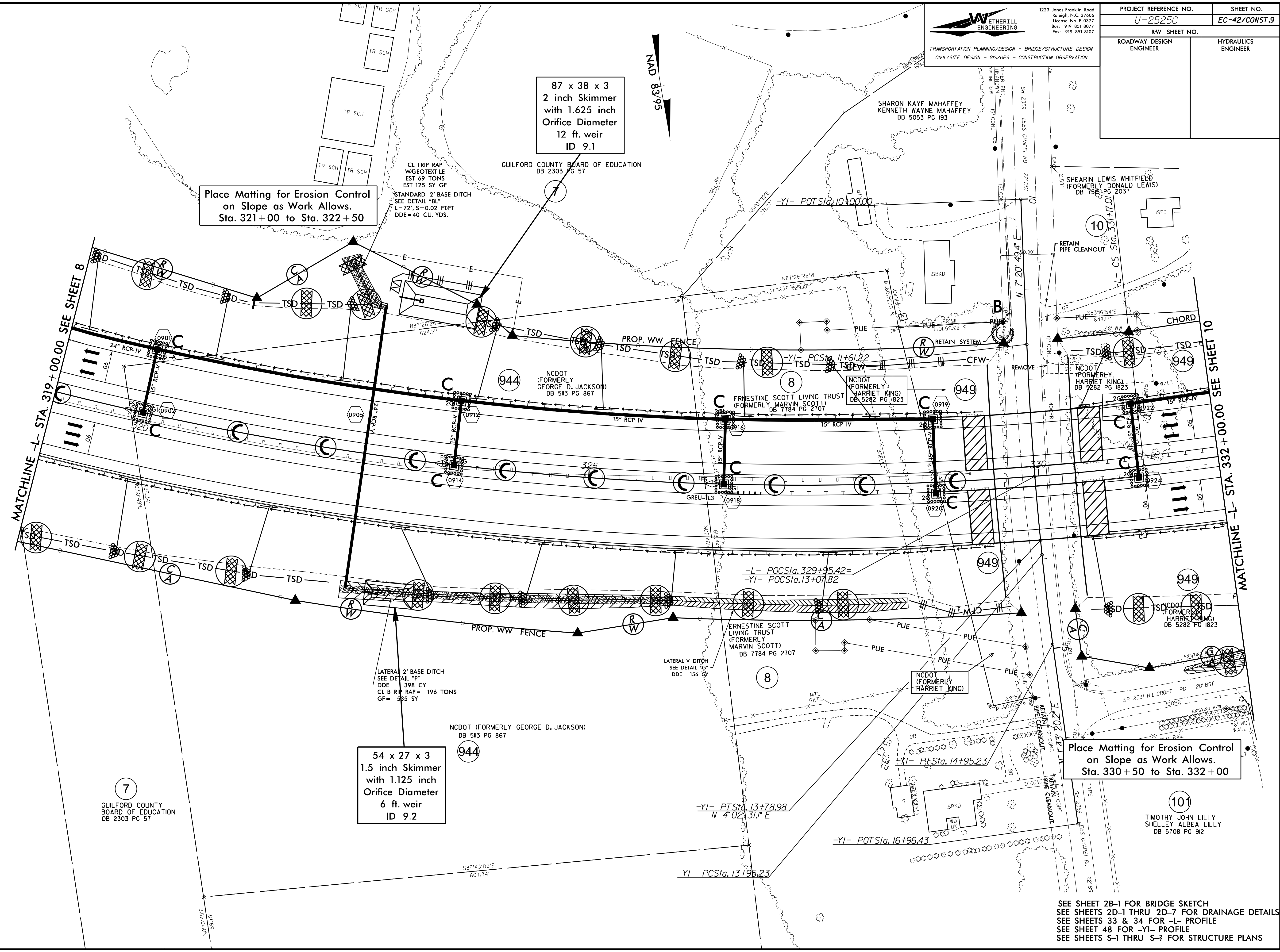
58 x 28 x 3  
 1.5 inch Skimmer  
 with 1.125 inch  
 Orifice Diameter  
 6 ft. weir  
 ID 8.7

90 x 32 x 3  
 1.5 inch Skimmer  
 with 1.5 inch  
 Orifice Diameter  
 11 ft. weir  
 ID 8.1

Place Matting for Erosion Control  
 on Slope as Work Allows.  
 Sta. 313+00 to Sta. 314+75

8.17/99  
 C:\Users\jwilliams\Documents\2025\250525\250525.dwg

PROJECT REFERENCE NO. <b>U-2525C</b>		SHEET NO. <b>EC-42/CONST.9</b>
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	



SEE SHEET 2B-1 FOR BRIDGE SKETCH  
 SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS  
 SEE SHEETS 33 & 34 FOR -L- PROFILE  
 SEE SHEET 48 FOR -YI- PROFILE  
 SEE SHEETS S-1 THRU S-? FOR STRUCTURE PLANS

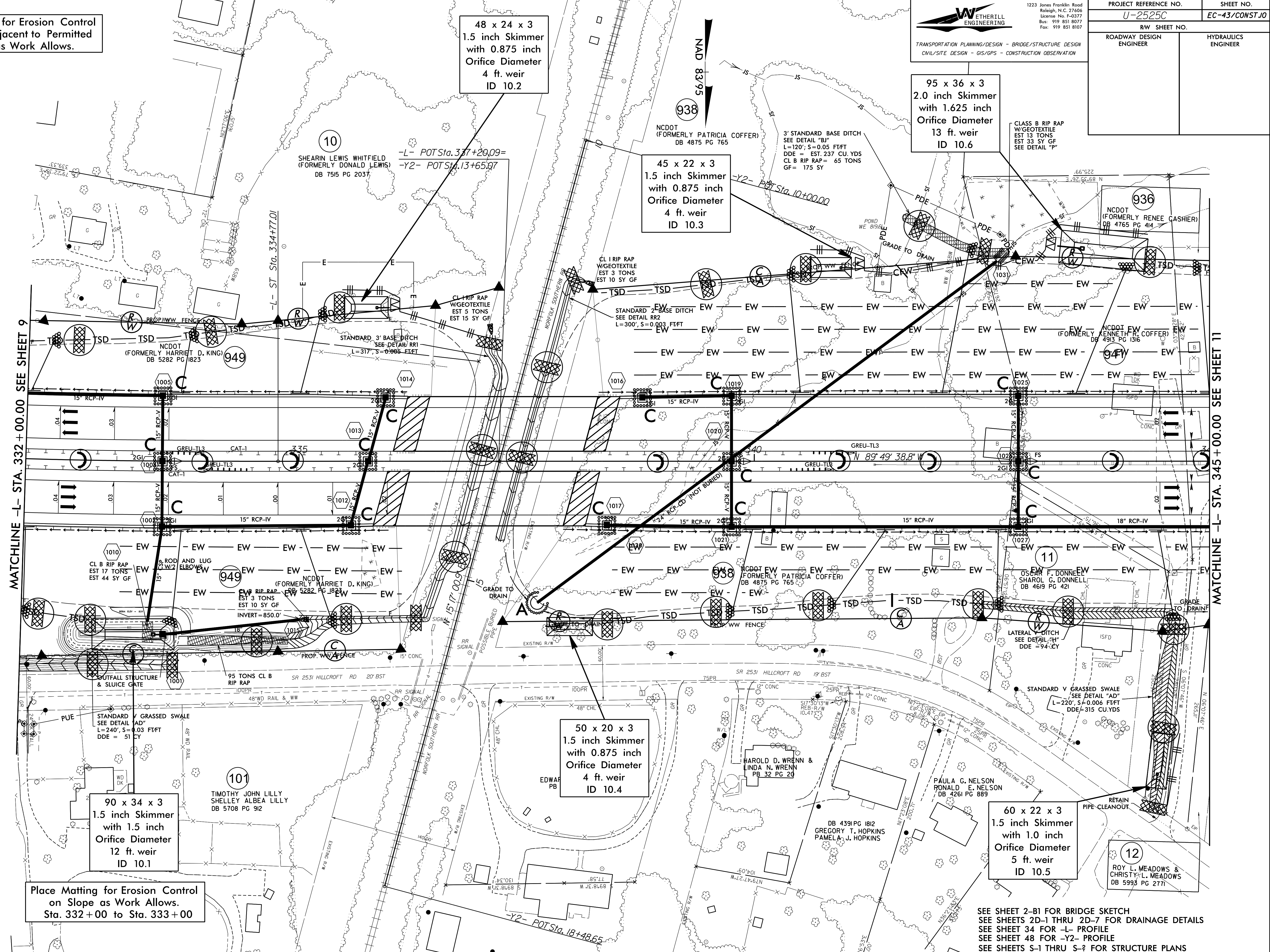
8.17/99

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

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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. <b>U-2525C</b>	SHEET NO. <b>EC-43/CONJ.10</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



48 x 24 x 3  
1.5 inch Skimmer  
with 0.875 inch  
Orifice Diameter  
4 ft. weir  
ID 10.2

95 x 36 x 3  
2.0 inch Skimmer  
with 1.625 inch  
Orifice Diameter  
13 ft. weir  
ID 10.6

45 x 22 x 3  
1.5 inch Skimmer  
with 0.875 inch  
Orifice Diameter  
4 ft. weir  
ID 10.3

50 x 20 x 3  
1.5 inch Skimmer  
with 0.875 inch  
Orifice Diameter  
4 ft. weir  
ID 10.4

90 x 34 x 3  
1.5 inch Skimmer  
with 1.5 inch  
Orifice Diameter  
12 ft. weir  
ID 10.1

60 x 22 x 3  
1.5 inch Skimmer  
with 1.0 inch  
Orifice Diameter  
5 ft. weir  
ID 10.5

Place Matting for Erosion Control on Slope as Work Allows. Sta. 332+00 to Sta. 333+00

SEE SHEET 2-B1 FOR BRIDGE SKETCH  
SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS  
SEE SHEET 34 FOR -L- PROFILE  
SEE SHEET 48 FOR -Y2- PROFILE  
SEE SHEETS S-1 THRU S-8 FOR STRUCTURE PLANS

MATCHLINE -L- STA. 332+00.00 SEE SHEET 9

MATCHLINE -L- STA. 345+00.00 SEE SHEET 11

8.17/99