

**TIP PROJECT: R-2510A**

STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  
 PLAN FOR PROPOSED  
 HIGHWAY EROSION CONTROL  
**BEAUFORT COUNTY**

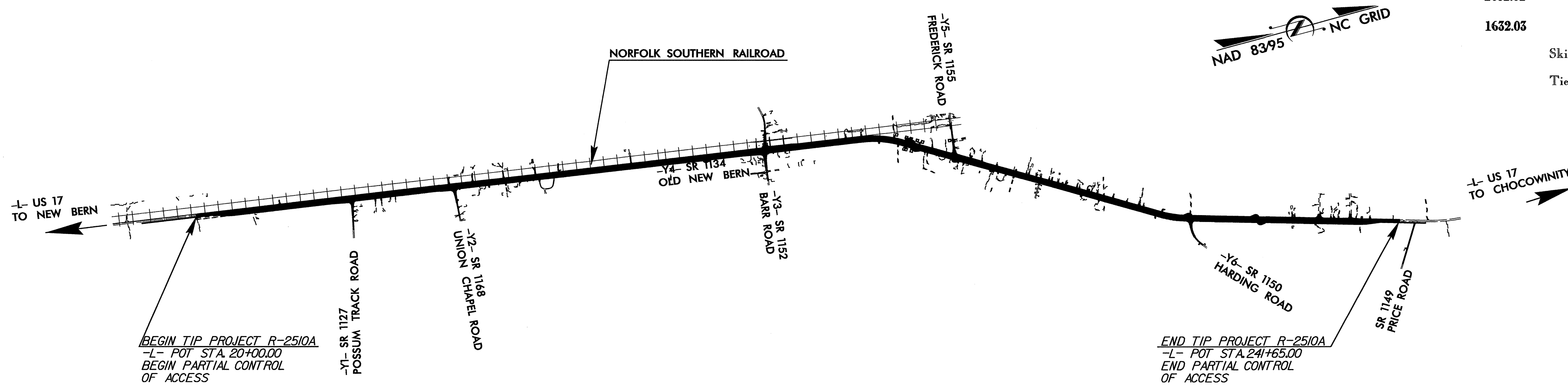
**LOCATION: US 17 FROM SOUTH OF SR 1127 (POSSUM TRACK ROAD)  
 TO SR 1149 (PRICE ROAD)**

**TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND CULVERT**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-2510A	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

**EROSION AND SEDIMENT CONTROL MEASURES**

Std. #	Description	Symbol
	Streambank Reforestation	
1630.03	Temporary Silt Ditch	
1630.05	Temporary Diversion	
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.01	Riser Basin	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-B	
1634.01	Temporary Rock Sediment Dam Type-A	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	
1635.02	Rock Pipe Inlet Sediment Trap Type-B	
1630.04	Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	
1632.02	Type B	
1632.03	Type C	
	Skimmer Basin	
	Tiered Skimmer Basin	



**THIS PROJECT CONTAINS  
 EROSION CONTROL PLANS  
 FOR CLEARING AND  
 GRUBBING PHASE OF  
 CONSTRUCTION.**

**THIS PROJECT HAS  
 BEEN DESIGNED TO  
 SENSITIVE WATERSHED  
 STANDARDS.**

**ENVIRONMENTALLY  
 SENSITIVE AREA(S) EXIST  
 ON THIS PROJECT**  
*Refer To E. C. Special Provisions  
 for Special Considerations.*

**GRAPHIC SCALE**

0

PLANS

0

PROFILE (HORIZONTAL)

0

PROFILE (VERTICAL)

ROADSIDE ENVIRONMENTAL UNIT  
 DIVISION OF HIGHWAYS  
 STATE OF NORTH CAROLINA

Prepared in the Office of:  
**ROADSIDE ENVIRONMENTAL UNIT**  
 1 South Wilmington St.  
 Raleigh, NC 27611  
**2006 STANDARD SPECIFICATIONS**

Roadway Standard Drawings

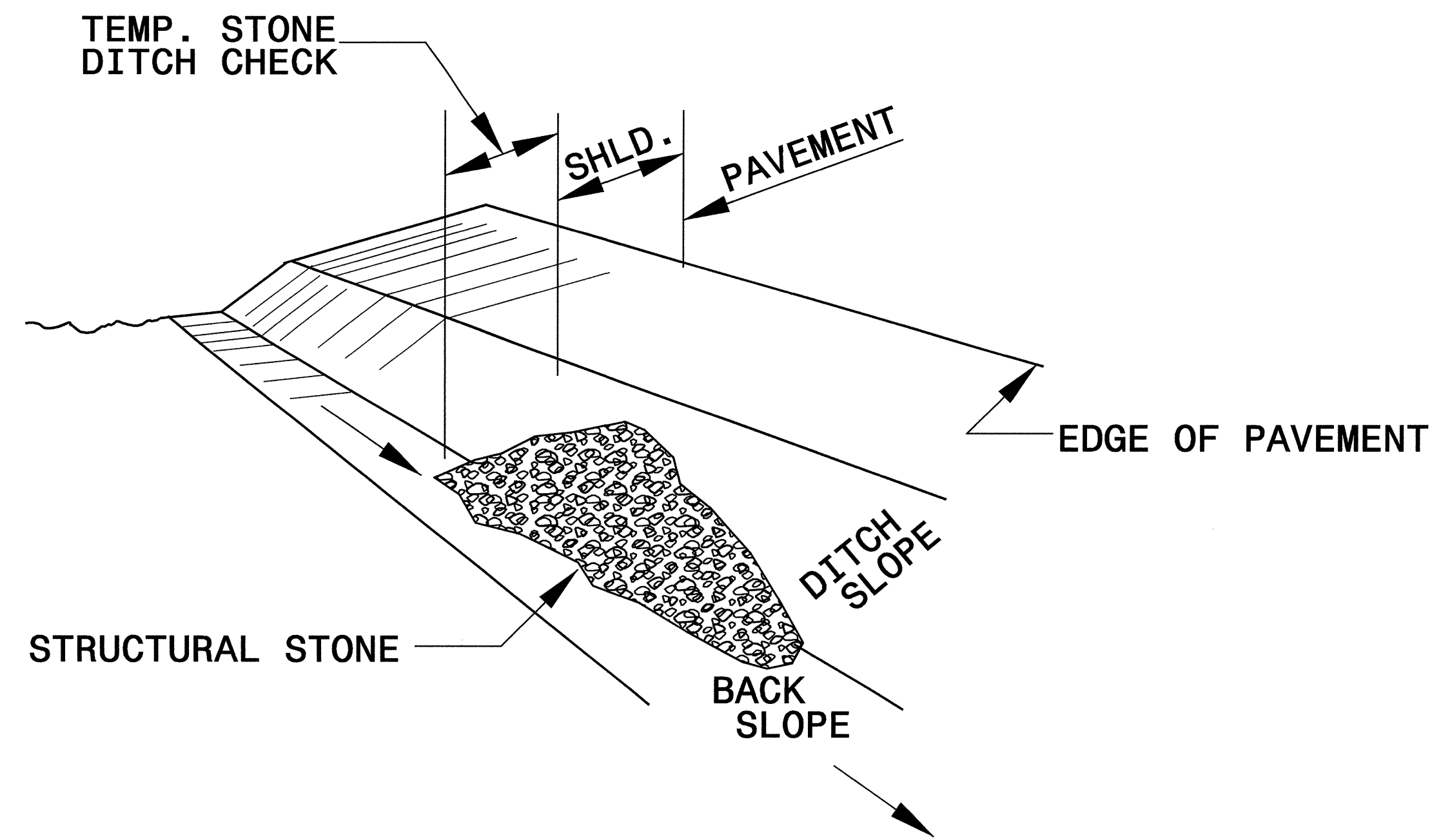
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence	1630.06 Special Stilling Basin
1606.01 Special Sediment Control Fence	1632.02 Rock Inlet Sediment Trap Type B
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1630.02 Silt Basin Type B	1634.01 Temporary Rock Sediment Dam Type A
1630.03 Temporary Silt Ditch	1634.02 Temporary Rock Sediment Dam Type B
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	

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 I:\projects\N-2510a\design\ec-1\design\ec-1.dgn

PROJECT REFERENCE NO. R-2510A	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

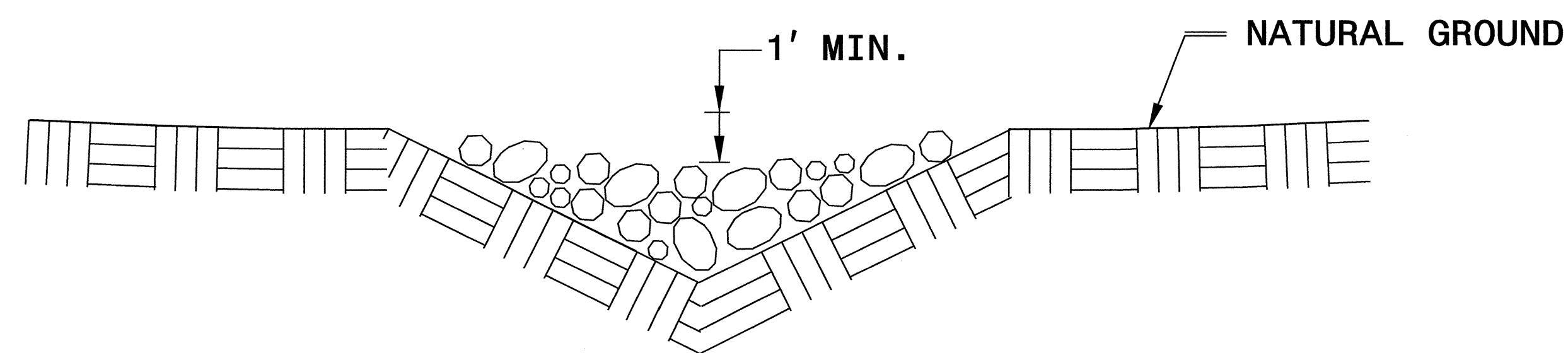


**ISOMETRIC VIEW**

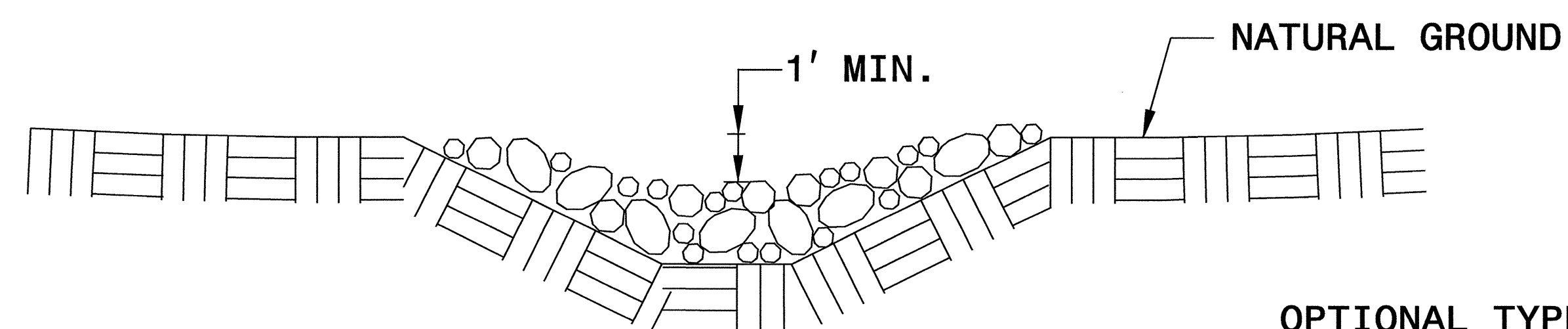
**NOTES:**

USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.

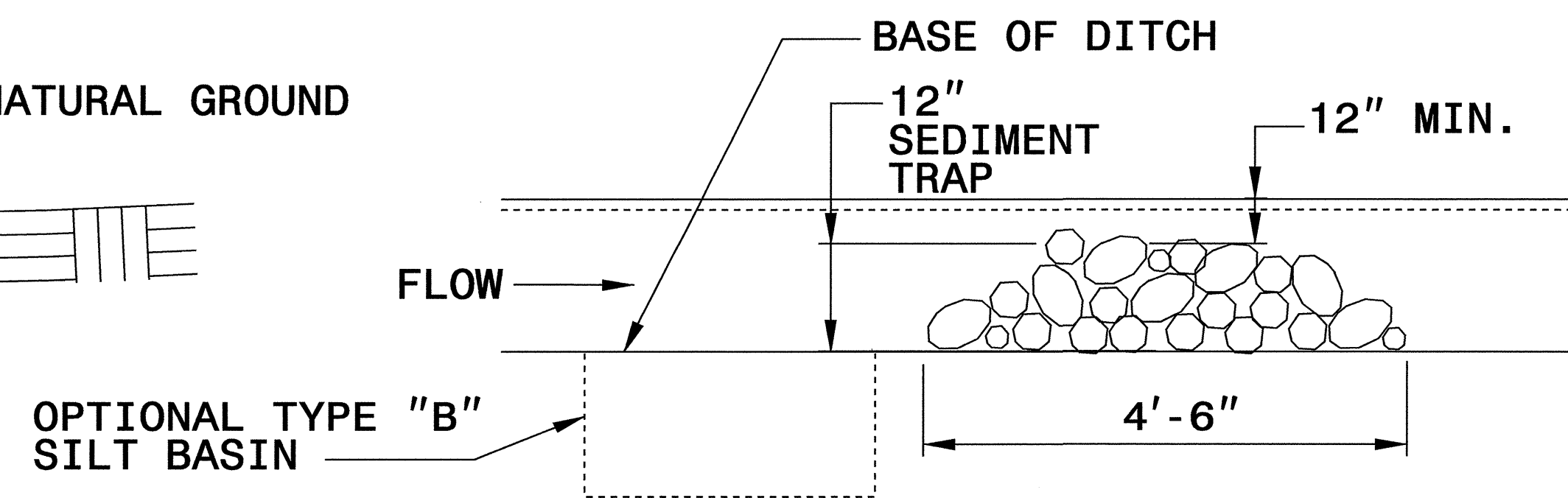
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



**CROSS SECTION VEE DITCH**



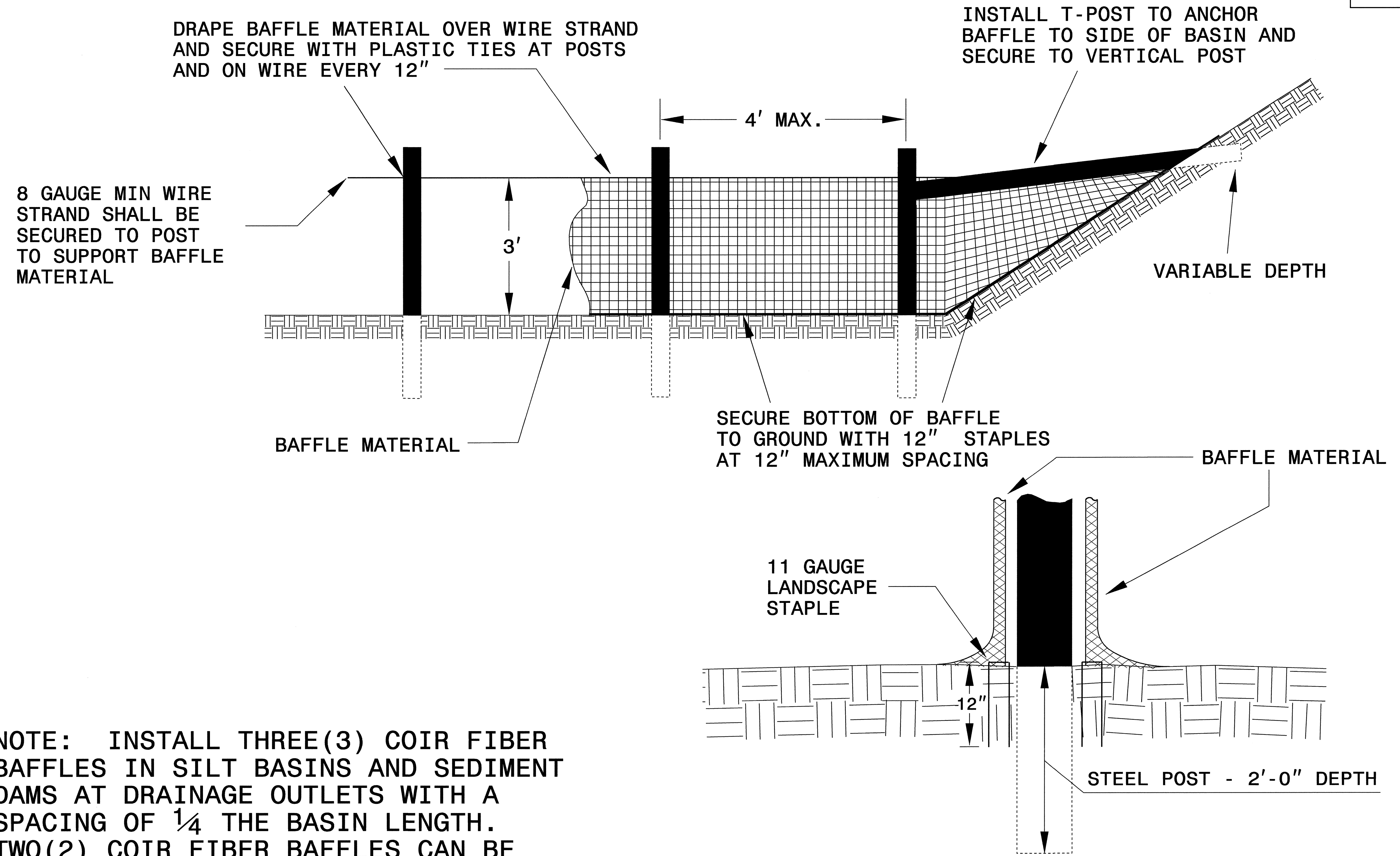
**CROSS SECTION TRAPEZOIDAL DITCH**



**ELEVATION VIEW**

PROJECT REFERENCE NO. R-2510A	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# COIR FIBER BAFFLE DETAIL

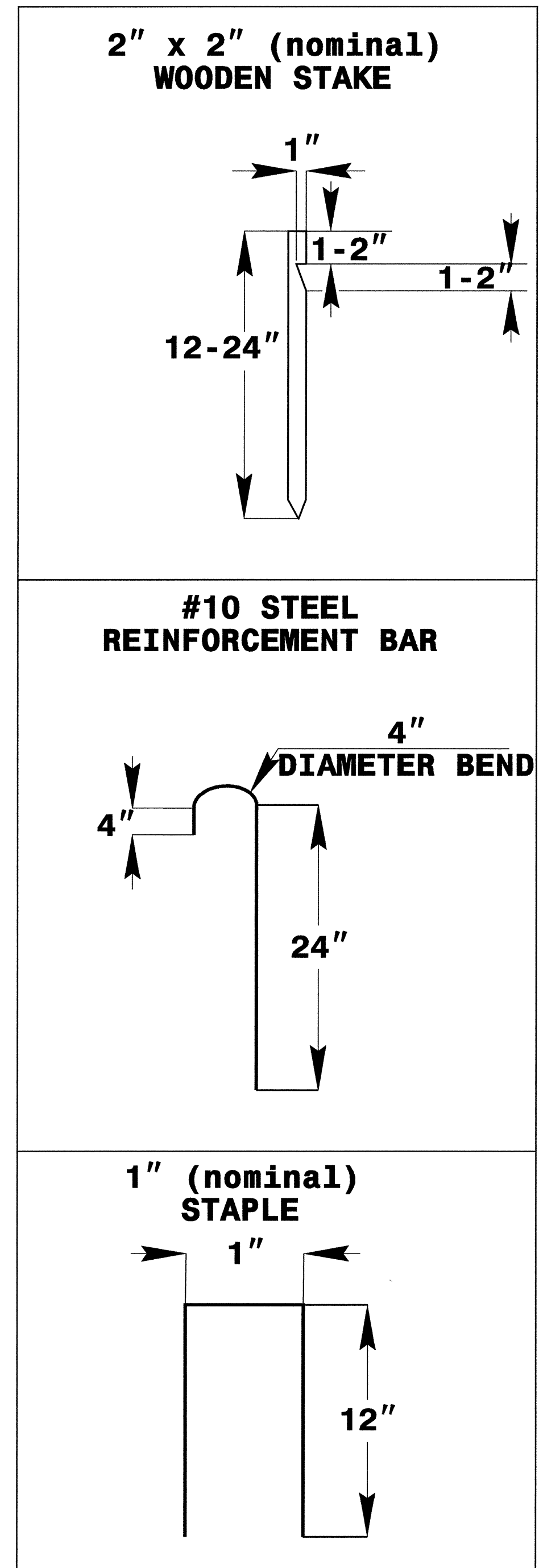
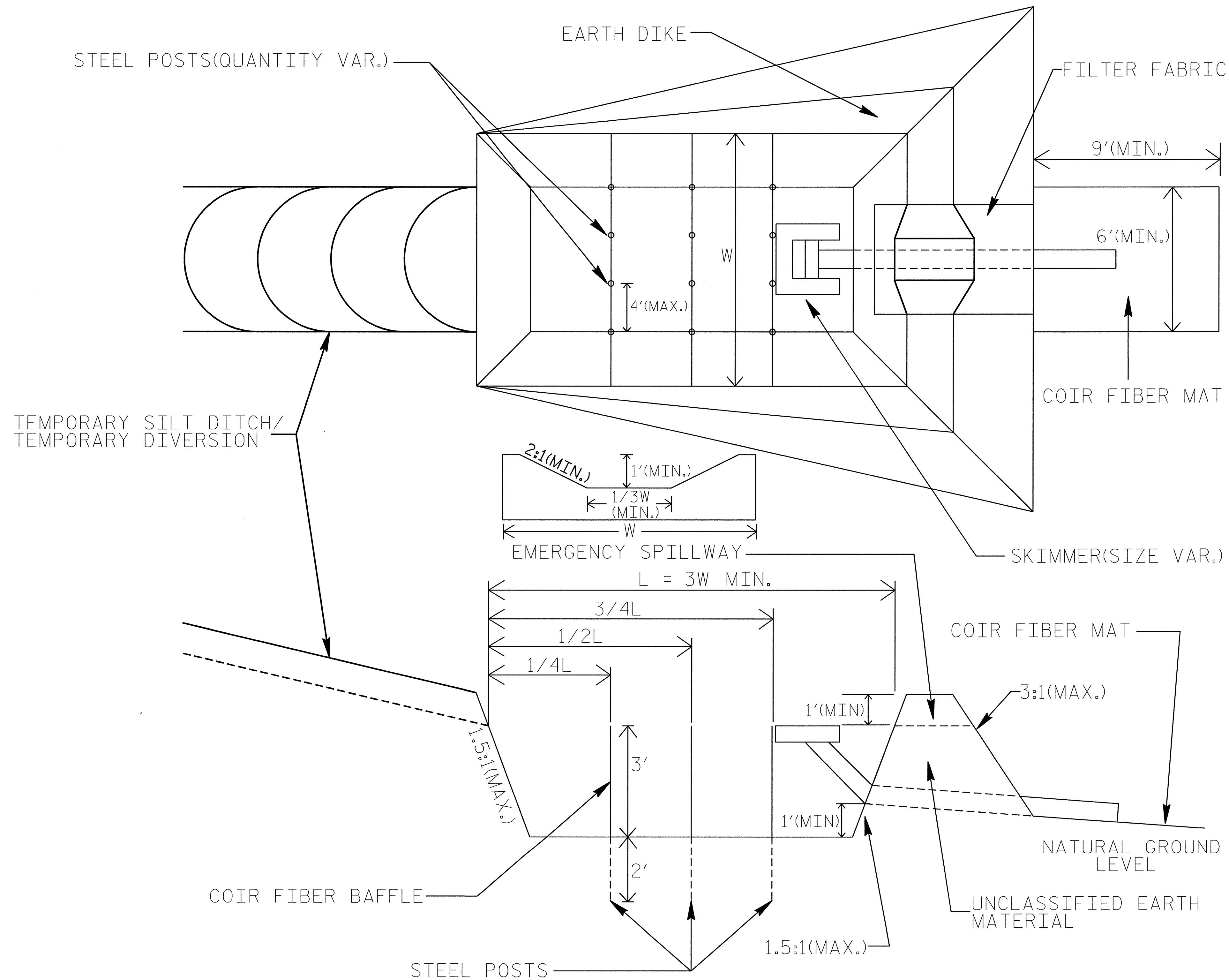


NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF  $\frac{1}{4}$  THE BASIN LENGTH. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF  $\frac{1}{3}$  THE BASIN LENGTH.

BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 12" LANDSCAPE STAPLES

# SKIMMER BASIN WITH BAFFLES DETAIL

PROJECT REFERENCE NO. R-2510A	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



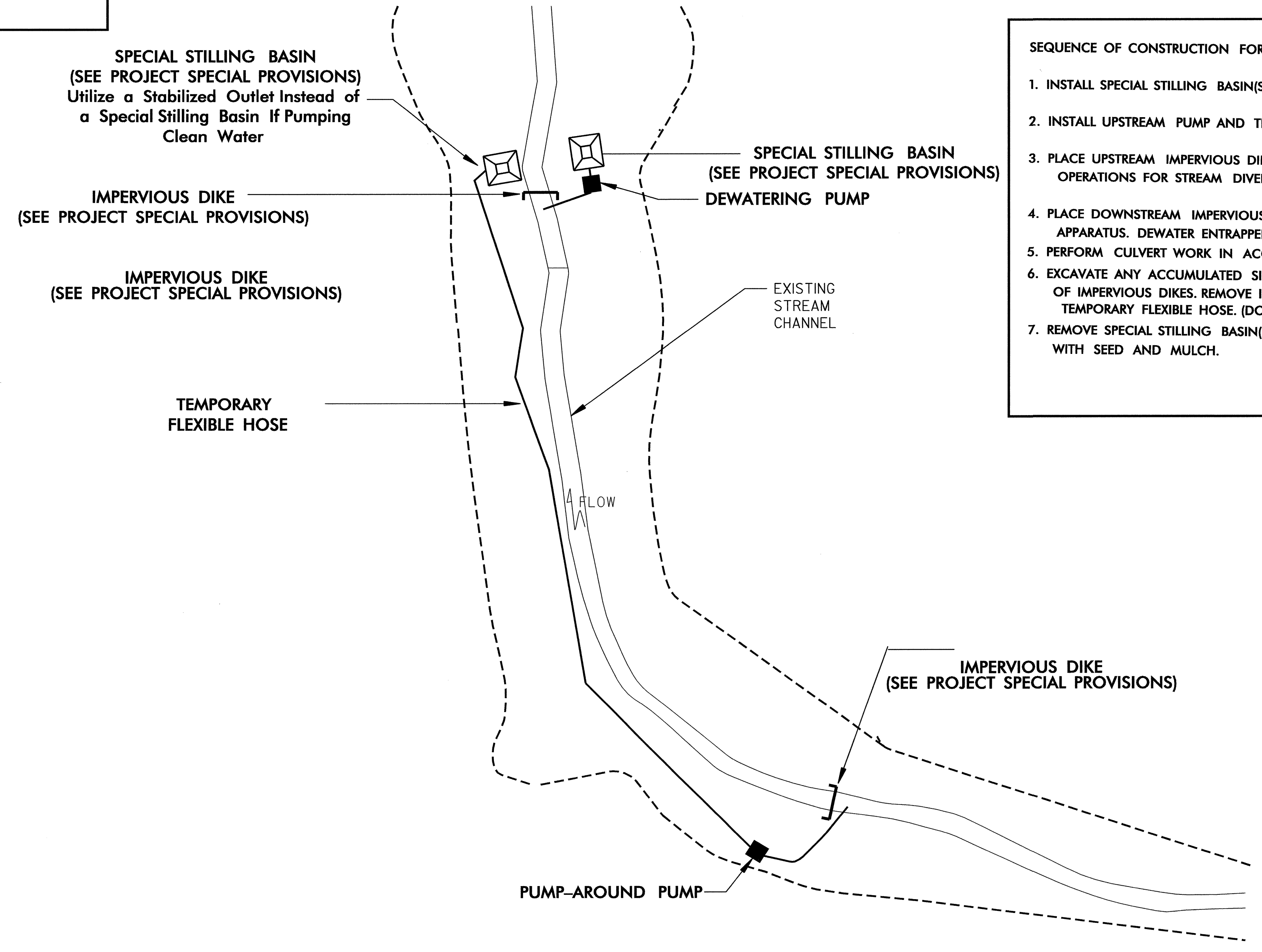
**COIR FIBER MAT ANCHOR OPTIONS**



PROJECT REFERENCE NO. <i>R-2510A</i>	SHEET NO. <i>EC-2C</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# EXAMPLE OF PUMP-AROUND OPERATION

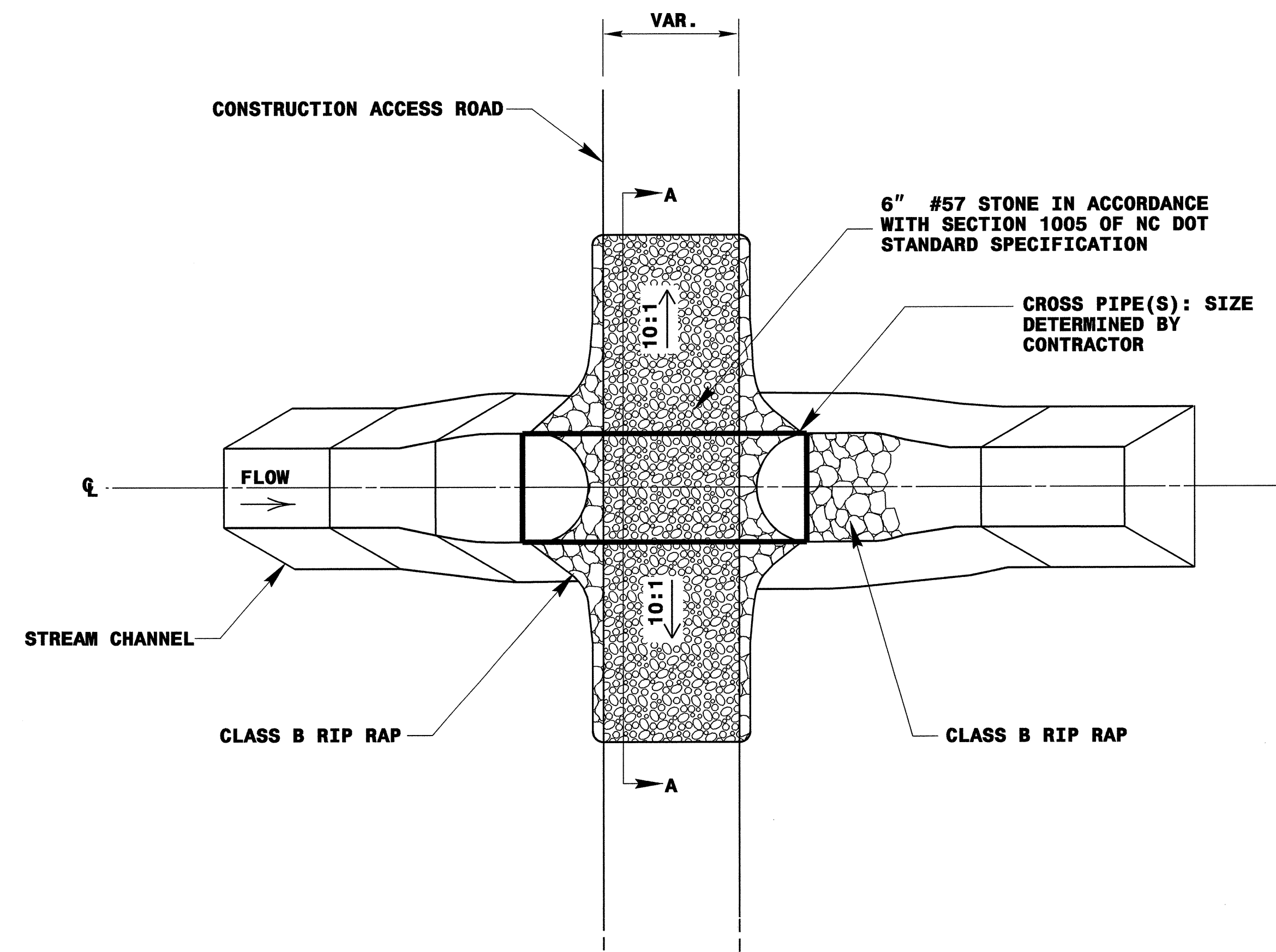
- NOTES:**
- 1) All excavation shall be performed in only dry or isolated sections of channel.
  - 2) Impervious dikes are to be used to isolate work from stream flow when necessary.
  - 3) Maintenance of stream flow operations shall be incidental to the work. This includes polyethylene sheeting, diversion pipes, pumps and hoses.
  - 4) Pumps and hoses shall be of sufficient size to dewater the work area.



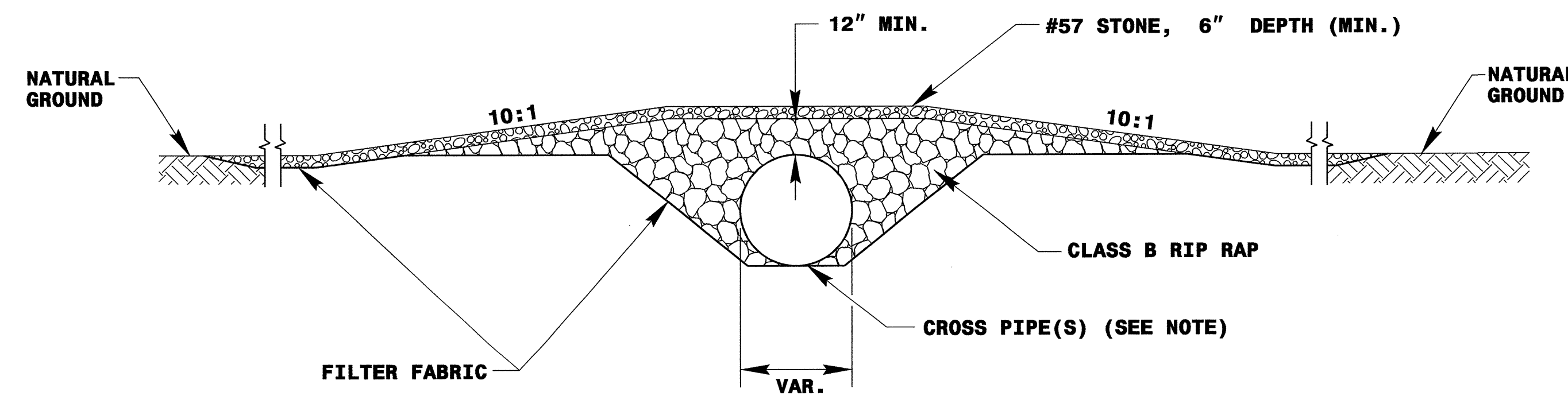
- SEQUENCE OF CONSTRUCTION FOR TYPICAL WORK AREA**
1. INSTALL SPECIAL STILLING BASIN(S).
  2. INSTALL UPSTREAM PUMP AND TEMPORARY FLEXIBLE HOSE.
  3. PLACE UPSTREAM IMPERVIOUS DIKE AND BEGIN PUMPING OPERATIONS FOR STREAM DIVERSION.
  4. PLACE DOWNSTREAM IMPERVIOUS DIKE AND PUMPING APPARATUS. DEWATER ENTRAPPED AREA.
  5. PERFORM CULVERT WORK IN ACCORDANCE WITH THE PLANS.
  6. EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKES. REMOVE IMPERVIOUS DIKES, PUMPS, AND TEMPORARY FLEXIBLE HOSE. (DOWNSTREAM IMPERVIOUS DIKES FIRST).
  7. REMOVE SPECIAL STILLING BASIN(S) AND BACKFILL. STABILIZE DISTURBED AREA WITH SEED AND MULCH.

PROJECT REFERENCE NO. <i>R-2510A</i>	SHEET NO. <i>EC-2D</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# TEMPORARY STREAM CROSSING



**PLAN VIEW**



**SECTION A-A**  
NOT TO SCALE

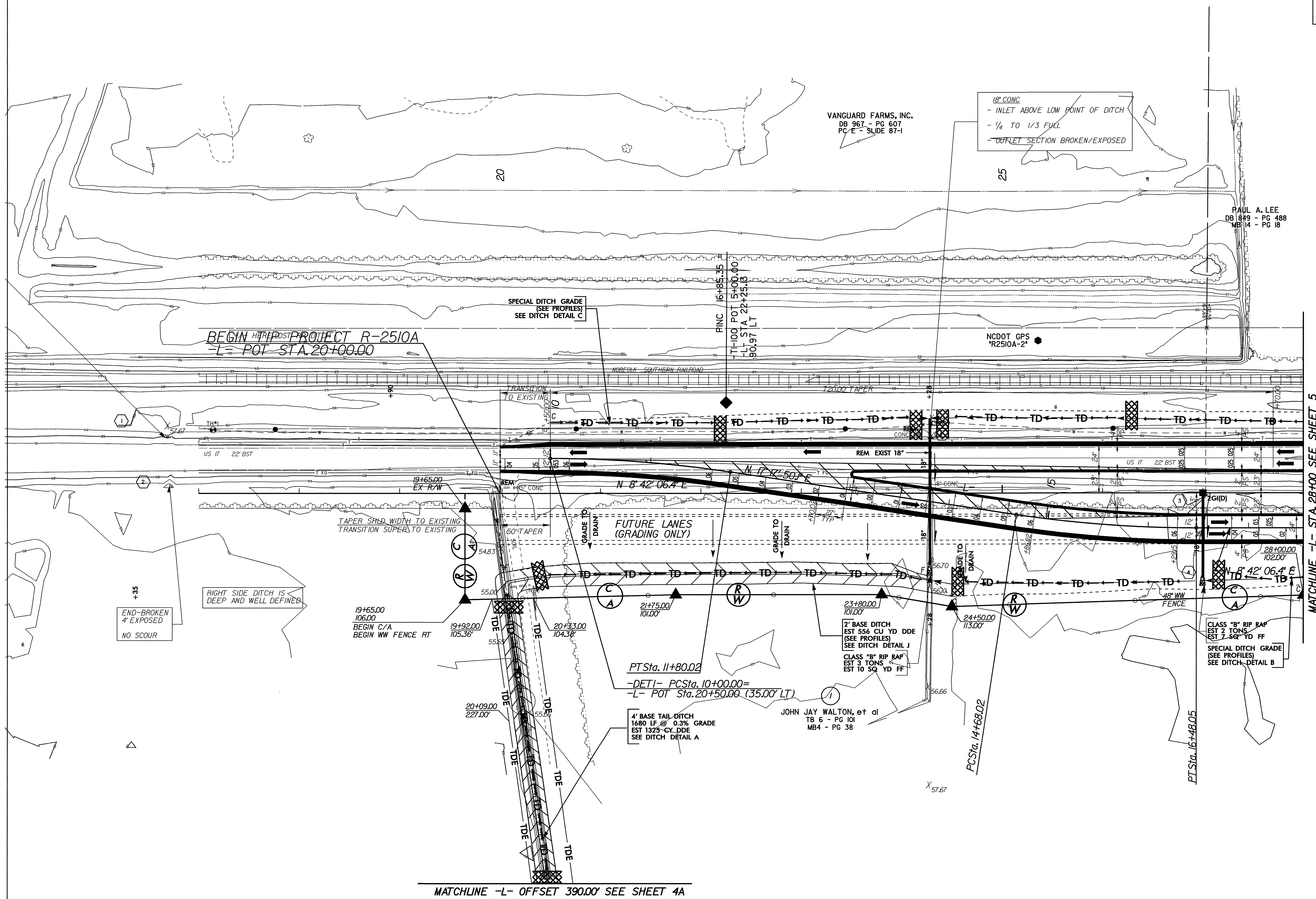
**NOTE: PIPE(S) FOR TEMPORARY STREAM CROSSING SHALL BE DESIGNED TO PASS THE PEAK OR BANKFULL FLOW, WHICHEVER IS LESS, FROM A 2-YEAR PEAK STORM, WITHOUT OVER TOPPING.**

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 4

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

PROJECT REFERENCE NO. <i>R-2510A</i>	SHEET NO. <i>EC-4/CONST.4</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER

NAD 8395



VANGUARD FARMS, INC.  
DB 967 - PG 607  
PC E - SLIDE 87-1

18" CONC  
- INLET ABOVE LOW POINT OF DITCH  
- 1/4 TO 1/3 FULL  
- OUTLET SECTION BROKEN/EXPOSED

PAUL A. LEE  
DB 849 - PG 488  
MB 14 - PG 18

NCDOT GPS  
R2510A-2

BEGIN WITH POST PROJECT R-2510A  
-L- POT STA. 20+00.00

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL C

NORFOLK SOUTHERN RAILROAD

N 8° 42' 06.4" E

PT Sta. 11+80.02

-DET- PC Sta. 10+00.00=  
-L- POT Sta. 20+50.00 (35.00' LT)

4' BASE TAIL DITCH  
1680 LF @ 0.3% GRADE  
EST 1325-CY DDE  
SEE DITCH DETAIL A

2' BASE DITCH  
EST 556 CU YD DDE  
(SEE PROFILES)  
SEE DITCH DETAIL J  
CLASS "B" RIP RAP  
EST 3 TONS  
EST 10 SQ YD FF

CLASS "B" RIP RAP  
EST 2 TONS  
EST 7 SQ YD FF  
SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

JOHN JAY WALTON, et al  
TB 6 - PG 101  
MB 4 - PG 38

+35  
END-BROKEN  
4' EXPOSED  
NO SCOUR

RIGHT SIDE DITCH IS  
DEEP AND WELL DEFINED

MATCHLINE -L- OFFSET 390.00 SEE SHEET 4A

MATCHLINE -L- STA. 28+00 SEE SHEET 5

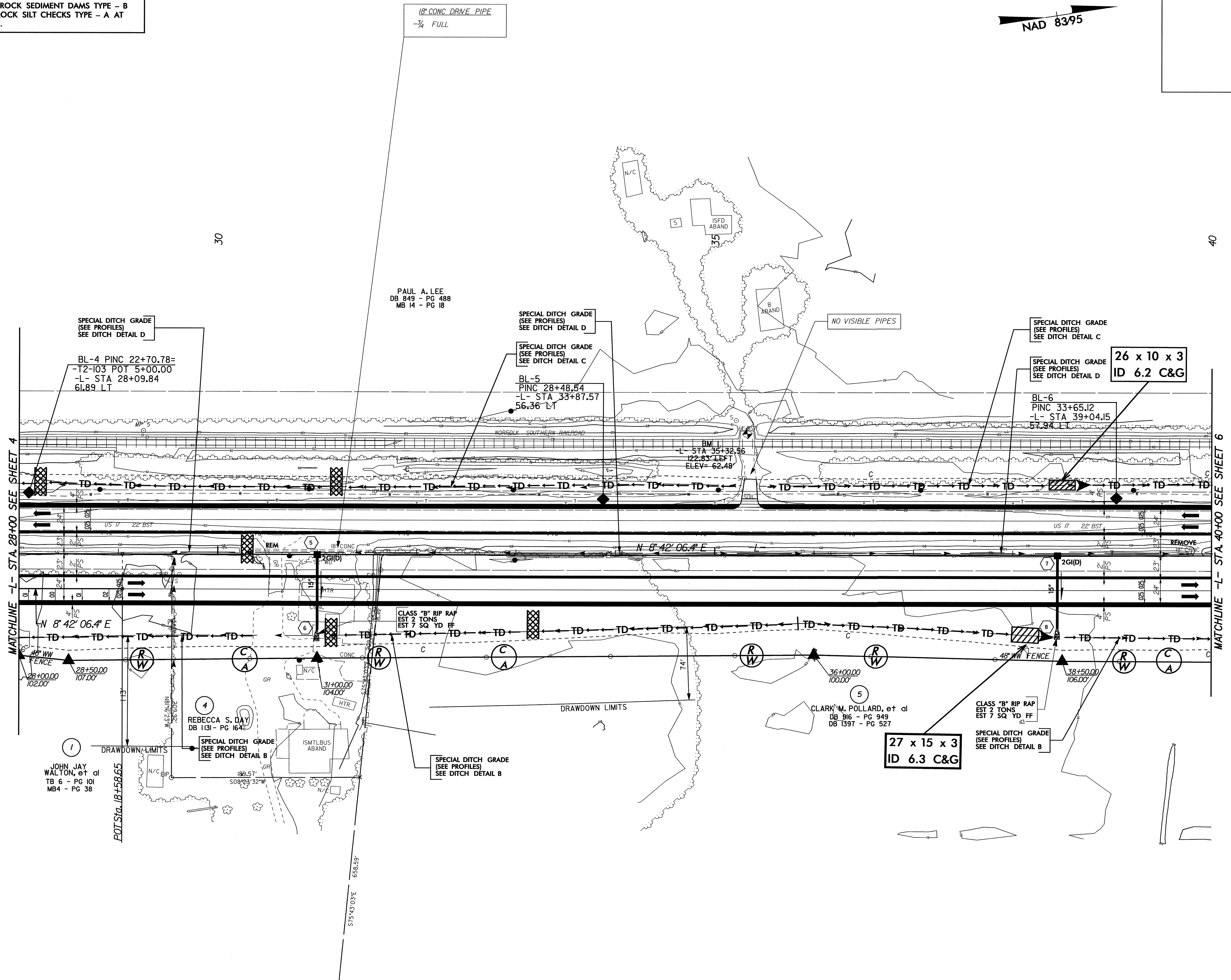
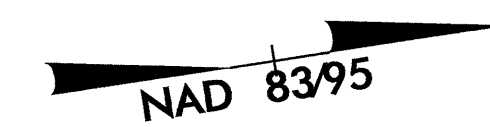




CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 5

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

PROJECT REFERENCE NO.	SHEET NO.
R-2510A	EC-6/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER



MATCHLINE -L- STA 28+00 SEE SHEET 4

MATCHLINE -L- STA 40+00 SEE SHEET 6

18" CONC DRIVE PIPE  
-3/4 FULL

PAUL A. LEE  
DB 849 - PG 488  
MB 14 - PG 18

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL D

BL-4 PINC 22+70.78=  
-T2-103 POT 5+00.00  
-L- STA 28+09.84  
61.89 LT

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL D

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL C

BL-5  
PINC 28+48.54  
-L- STA 33+87.57  
56.36 LT

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL C

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL D

26 x 10 x 3  
ID 6.2 C&G

BL-6  
PINC 33+65.12  
-L- STA 39+04.15  
57.94 LT

CLASS "B" RIP RAP  
EST 2 TONS  
EST 7 SQ YD FF

CLASS "B" RIP RAP  
EST 2 TONS  
EST 7 SQ YD FF

27 x 15 x 3  
ID 6.3 C&G

JOHN JAY  
WALTON, et al  
TB 6 - PG 101  
MB 4 - PG 38

REBECCA S. DAY  
DB 1131 - PG 164

CLARK M. POLLARD, et al  
DB 916 - PG 949  
DB 1397 - PG 527

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

S75°43'03"E 658.59'

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 6

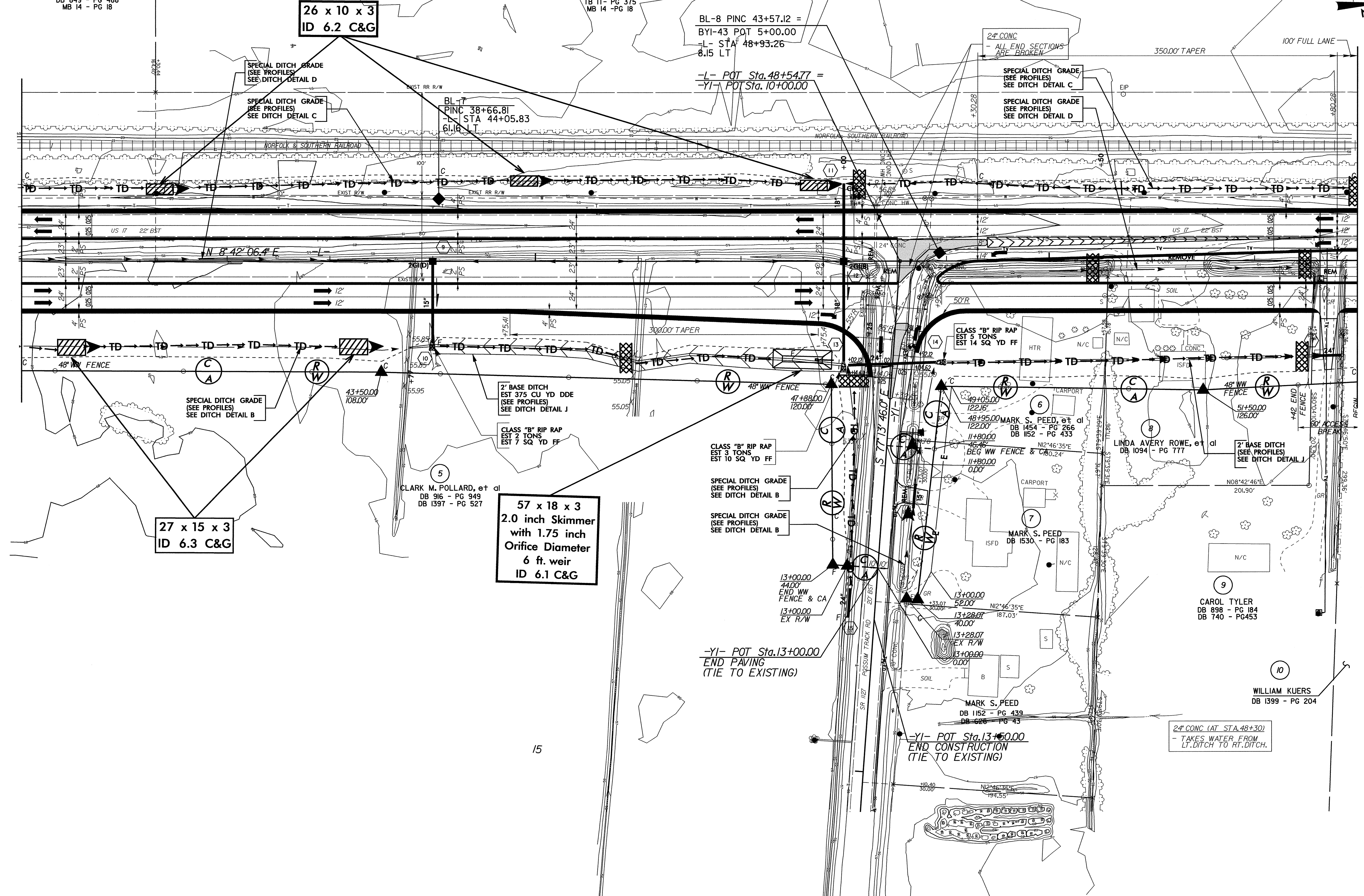
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

PROJECT REFERENCE NO.	SHEET NO.
R-2510A	EC-7/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER

PAUL A. LEE  
DB 849 - PG 488  
MB 14 - PG 18

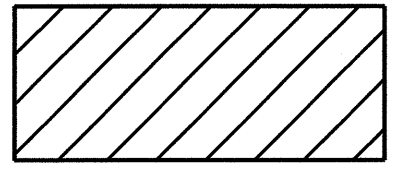
WEYERHAEUSER COMPANY  
DB 1082 - PG 35  
TB 11 - PG 375  
MB 14 - PG 18

NAD 83/95





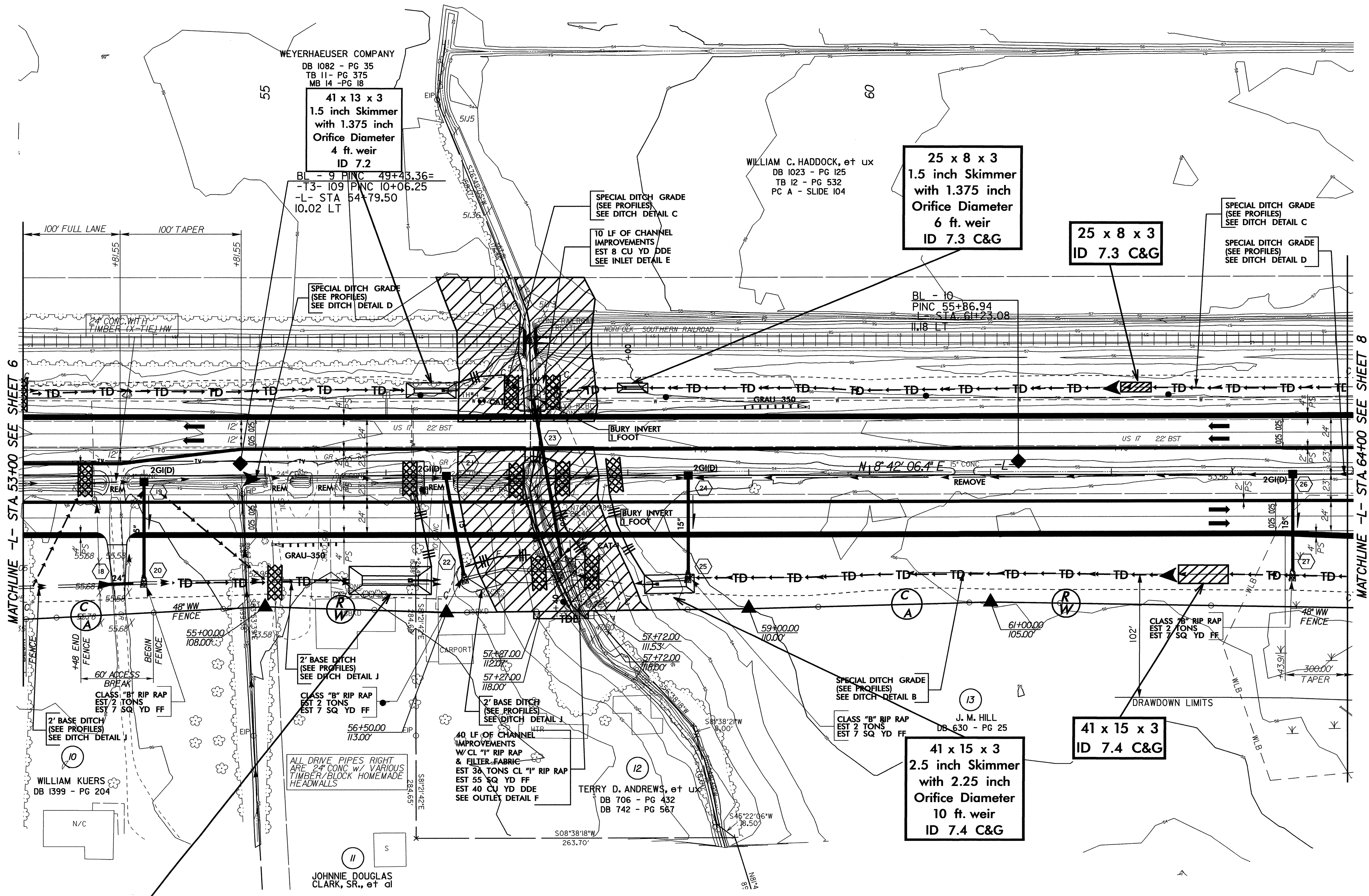
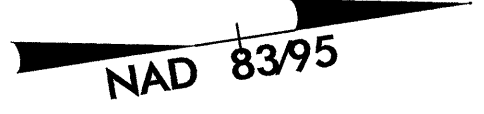
PROJECT REFERENCE NO. R-2510A	SHEET NO. EC-8/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER



ENVIRONMENTALLY SENSITIVE AREA  
SEE PROJECT SPECIAL PROVISIONS

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

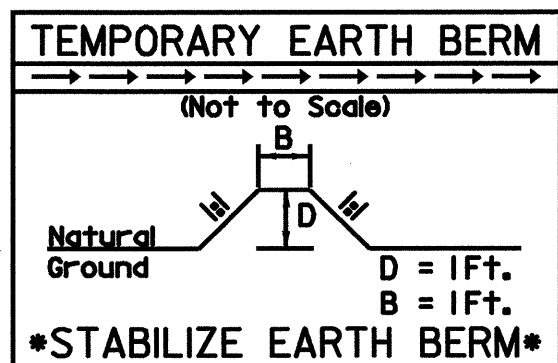
CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 7



MATCHLINE -L- STA. 53+00 SEE SHEET 6

MATCHLINE -L- STA. 64+00 SEE SHEET 8

63 x 23 x 3  
2.5 inch Skimmer  
with 2.25 inch  
Orifice Diameter  
8 ft. weir  
ID 7.1



41 x 15 x 3  
2.5 inch Skimmer  
with 2.25 inch  
Orifice Diameter  
10 ft. weir  
ID 7.4 C&G

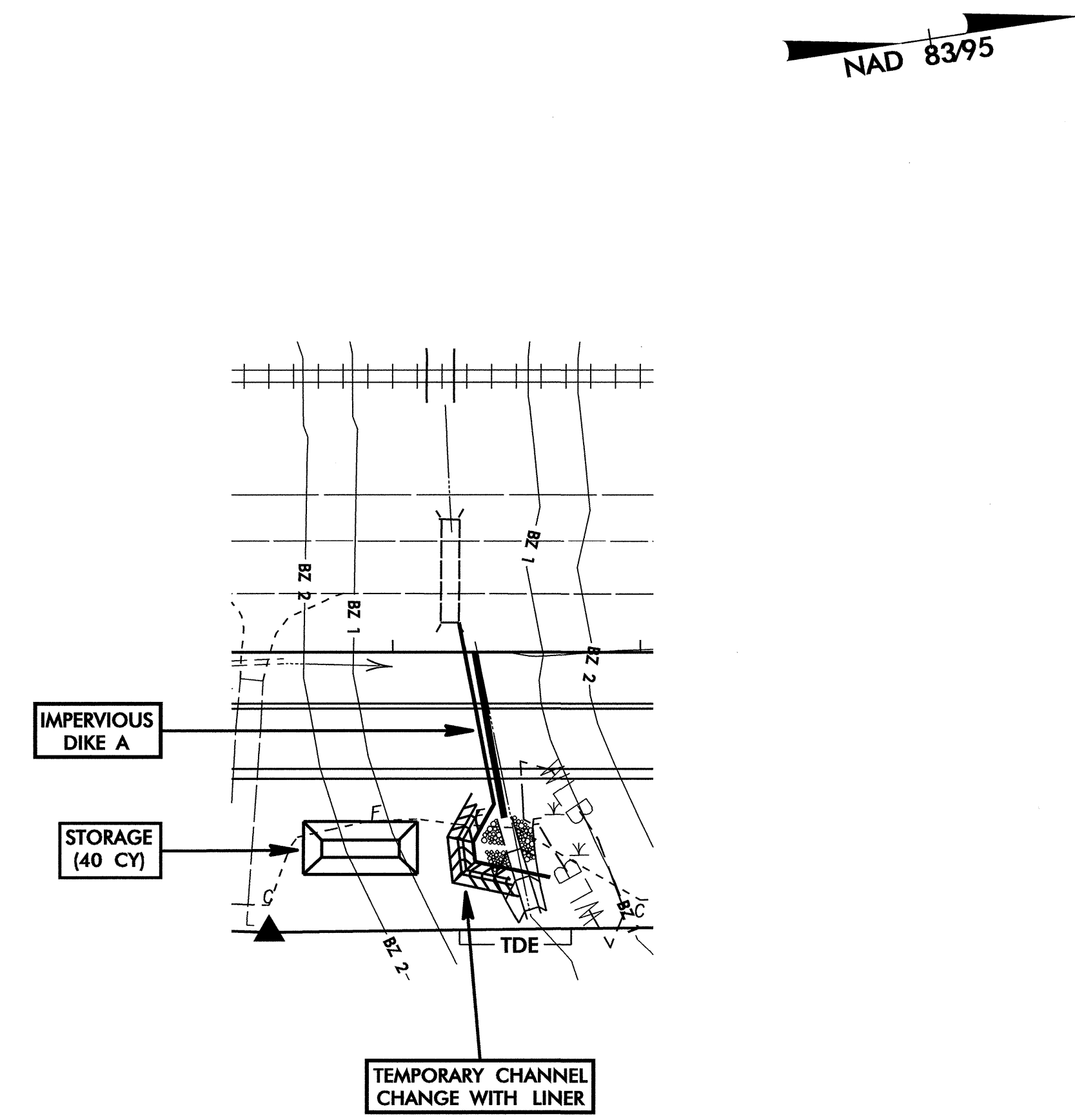
41 x 15 x 3  
ID 7.4 C&G

PROJECT REFERENCE NO. R-2510A	SHEET NO. EC-9/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# CULVERT CONSTRUCTION SEQUENCE STA. 57+30 -L-

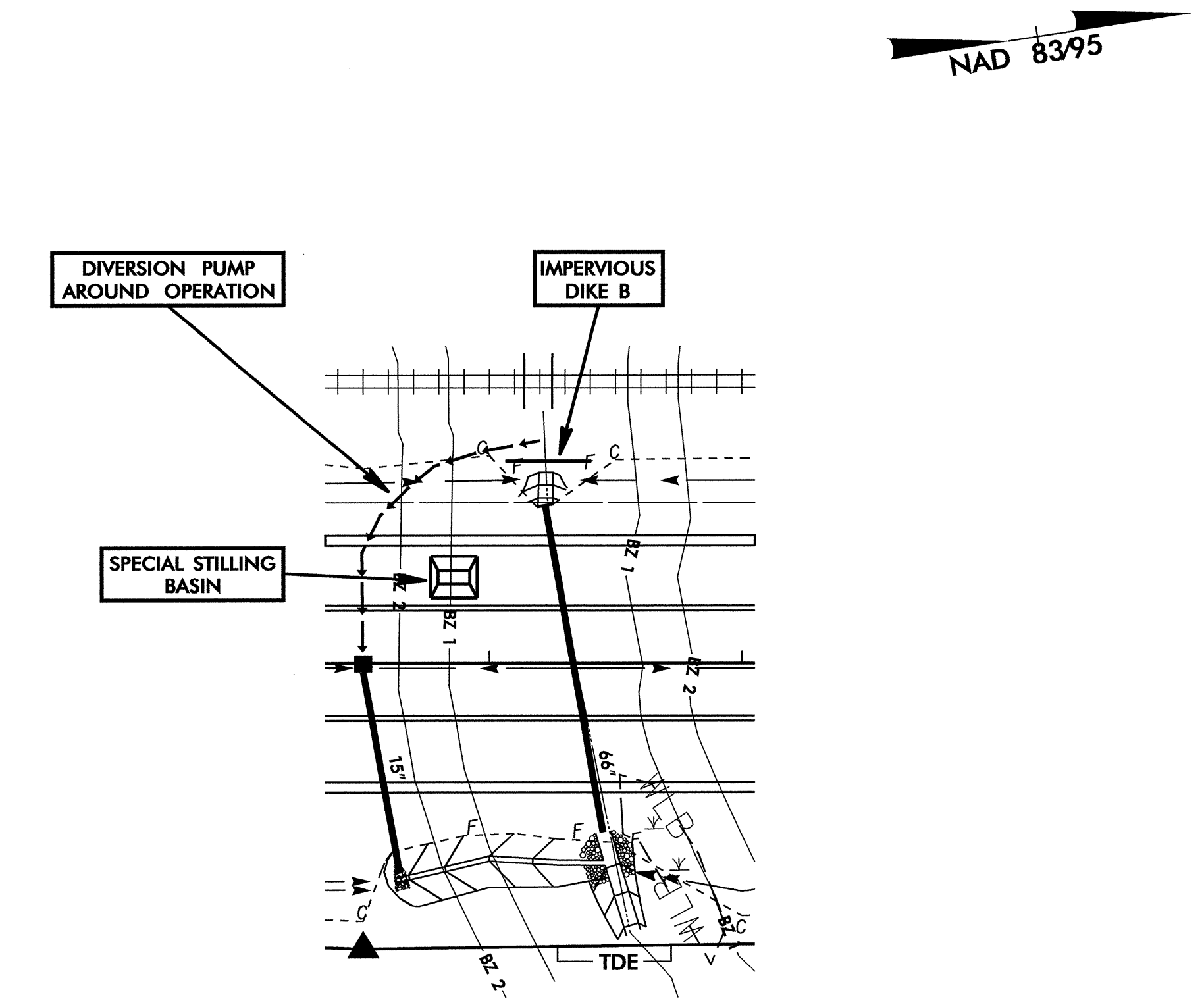
## PHASE I

1. CONSTRUCT STILLING BASIN (40 CY).
2. CONSTRUCT TEMPORARY CHANNEL CHANGE WITH LINER (2 FT. DEEP, 2 FT. BASE, 2:1 SIDE SLOPES).
3. CONSTRUCT IMPERVIOUS DIKE A, DIVERTING FLOW THROUGH TEMPORARY CHANNEL CHANGE.
4. CONSTRUCT DOWNSTREAM PORTION OF PROPOSED CULVERT, INCLUDING OUTLET CHANNEL IMPROVEMENTS.
5. REMOVE TEMPORARY CHANNEL CHANGE AND IMPERVIOUS DIKE A, AND DIVERT FLOW THROUGH PROPOSED CULVERT.
6. CONSTRUCT PROPOSED NORTHBOUND LANES, AND SHIFT TRAFFIC.



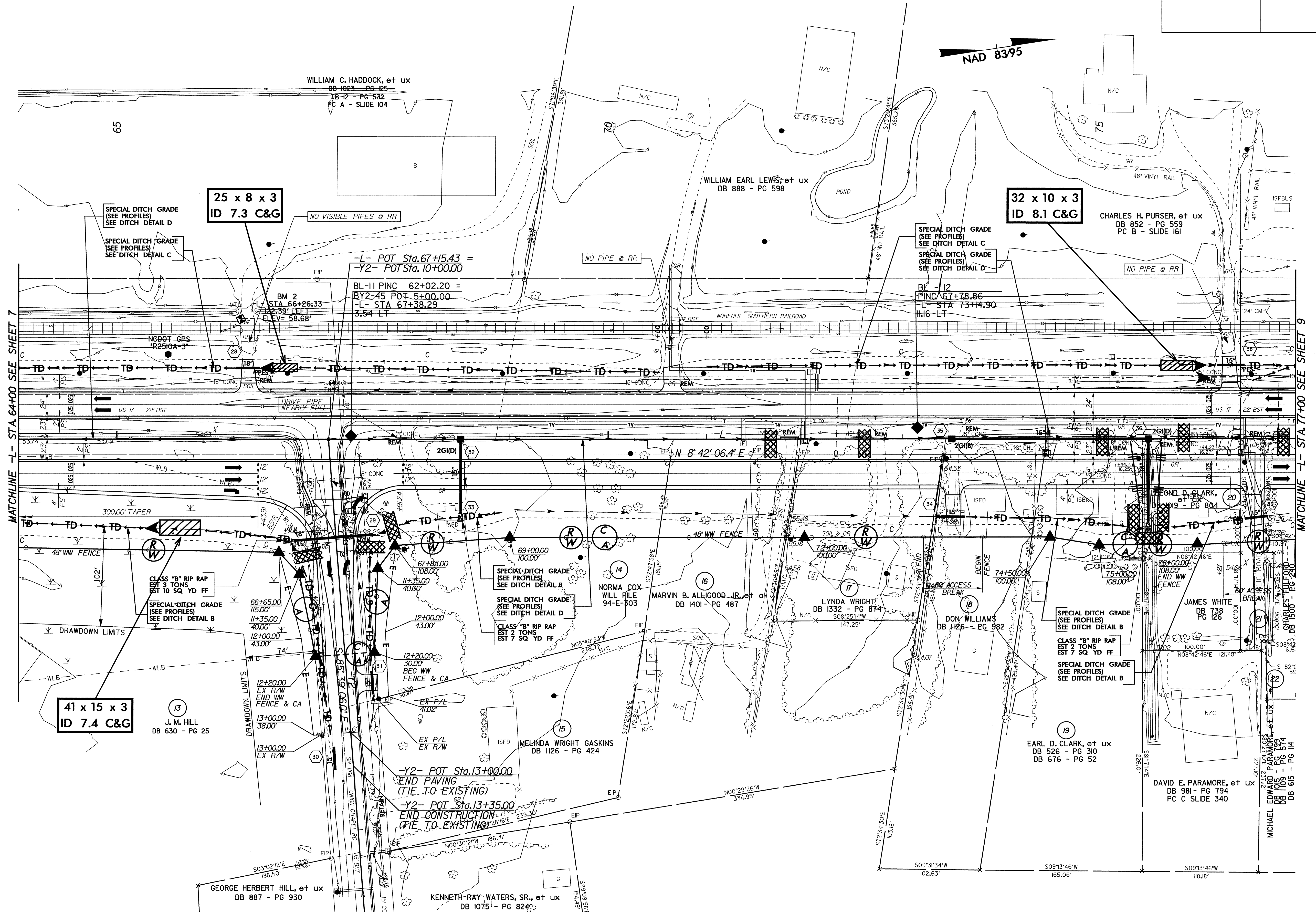
## PHASE II

7. INSTALL SPECIAL STILLING BASIN.
8. CONSTRUCT IMPERVIOUS DIKE B.
9. UTILIZE DIVERSION PUMP AROUND OPERATION, DIVERTING FLOW TO MEDIAN INLET.
10. REMOVE EXISTING CULVERT.
11. CONSTRUCT UPSTREAM PORTION OF PROPOSED CULVERT, INCLUDING INLET CHANNEL IMPROVEMENTS.
12. REMOVE IMPERVIOUS DIKE B AND PUMP, DIVERTING FLOW THROUGH PROPOSED CULVERT.
13. COMPLETE ROADWAY.





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



MATCHLINE -L- STA. 64+00 SEE SHEET 7

MATCHLINE -L- STA. 77+00 SEE SHEET 9

**41 x 15 x 3**  
**ID 7.4 C&G**

**25 x 8 x 3**  
**ID 7.3 C&G**

**32 x 10 x 3**  
**ID 8.1 C&G**

(13) J. M. HILL  
DB 630 - PG 25

-Y2- POT Sta. 13+00.00  
END PAVING  
(TIE TO EXISTING)

-Y2- POT Sta. 13+35.00  
END CONSTRUCTION  
(TIE TO EXISTING)

GEORGE HERBERT HILL, et ux  
DB 887 - PG 930

KENNETH RAY WATERS, SR., et ux  
DB 1075 - PG 824

WILLIAM C. HADDOCK, et ux  
DB 1023 - PG 125  
78-12 - PG 532  
PC A - SLIDE 104

WILLIAM EARL LEWIS, et ux  
DB 888 - PG 598

CHARLES H. PURSER, et ux  
DB 852 - PG 559  
PC B - SLIDE 161

NORMA COX  
WILL FILE  
94-E-303

MARVIN B. ALLGOOD, JR., et ux  
DB 1401 - PG 487

LYNDA WRIGHT  
DB 1332 - PG 874

DON WILLIAMS  
DB 1126 - PG 582

JAMES WHITE  
DB 738  
PG 126

(19) EARL D. CLARK, et ux  
DB 526 - PG 310  
DB 676 - PG 52

DAVID E. PARAMORE, et ux  
DB 981 - PG 794  
PC C SLIDE 340

MICHAEL EDWARD PARAMORE, et ux  
DB 1105 - PG 574  
DB 615 - PG 114

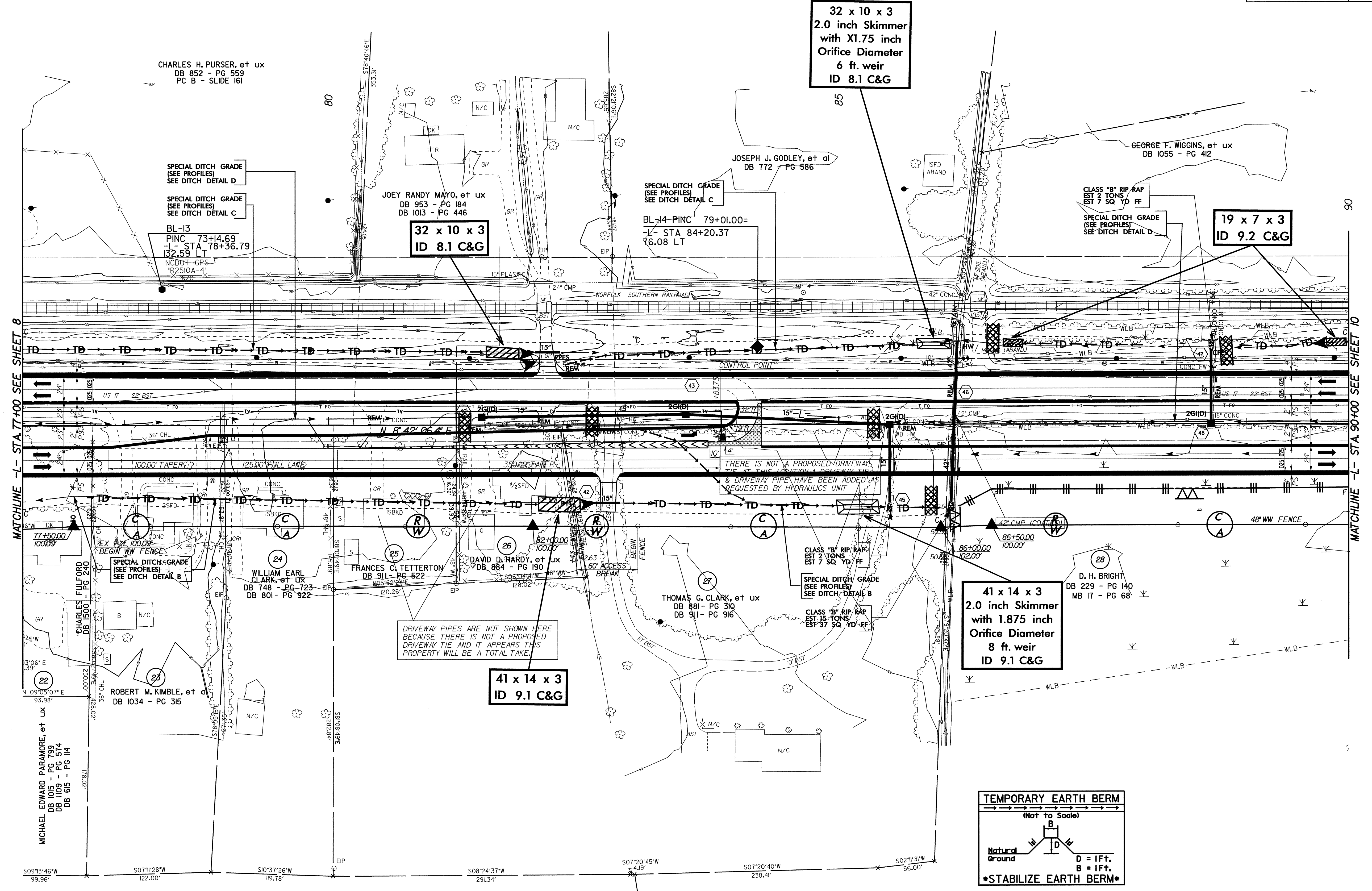
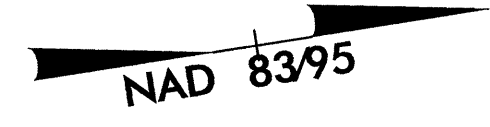
MELINDA WRIGHT GASKINS  
DB 1126 - PG 424



CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 9

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

PROJECT REFERENCE NO. R-2510A	SHEET NO. EC-II/CONST.9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER



CHARLES H. PURSER, et ux  
DB 852 - PG 559  
PC B - SLIDE 161

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL D

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL C

BL-13  
PINC 73+14.69  
L- STA 78+36.79  
132.59 LT  
NCDOT-CPS  
"R2510A-4"

32 x 10 x 3  
2.0 inch Skimmer  
with X1.75 inch  
Orifice Diameter  
6 ft. weir  
ID 8.1 C&G

JOEY RANDY MAYO, et ux  
DB 953 - PG 184  
DB 1013 - PG 446

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL C

BL-14-PINC 79+01.00=  
L- STA 84+20.37  
76.08 LT

JOSEPH J. GODLEY, et ux  
DB 772 - PG 586

32 x 10 x 3  
2.0 inch Skimmer  
with X1.75 inch  
Orifice Diameter  
6 ft. weir  
ID 8.1 C&G

GEORGE F. WIGGINS, et ux  
DB 1055 - PG 412

CLASS "B" RIP RAP  
EST 2 TONS  
EST 7 SQ YD FF

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL D

19 x 7 x 3  
ID 9.2 C&G

THERE IS NOT A PROPOSED DRIVEWAY  
TIE TO THE DRIVEWAY PIPE. THE  
& DRIVEWAY PIPE HAVE BEEN ADDED AS  
REQUESTED BY HYDRAULICS UNIT

CLASS "B" RIP RAP  
EST 7 TONS  
EST 7 SQ YD FF

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

CLASS "B" RIP RAP  
EST 15 TONS  
EST 37 SQ YD FF

41 x 14 x 3  
2.0 inch Skimmer  
with 1.875 inch  
Orifice Diameter  
8 ft. weir  
ID 9.1 C&G

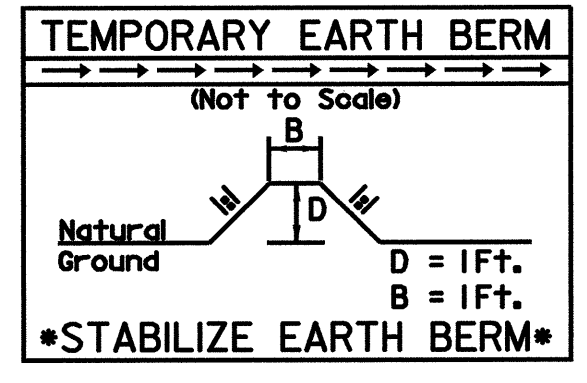
D. H. BRIGHT  
DB 229 - PG 140  
MB 17 - PG 68

DRIVEWAY PIPES ARE NOT SHOWN HERE  
BECAUSE THERE IS NOT A PROPOSED  
DRIVEWAY TIE AND IT APPEARS THIS  
PROPERTY WILL BE A TOTAL TAKE.

41 x 14 x 3  
ID 9.1 C&G

ROBERT M. KIMBLE, et ux  
DB 1034 - PG 315

MICHAEL EDWARD PARAMORE, et ux  
DB 1015 - PG 799  
DB 1109 - PG 574  
DB 165 - PG 114



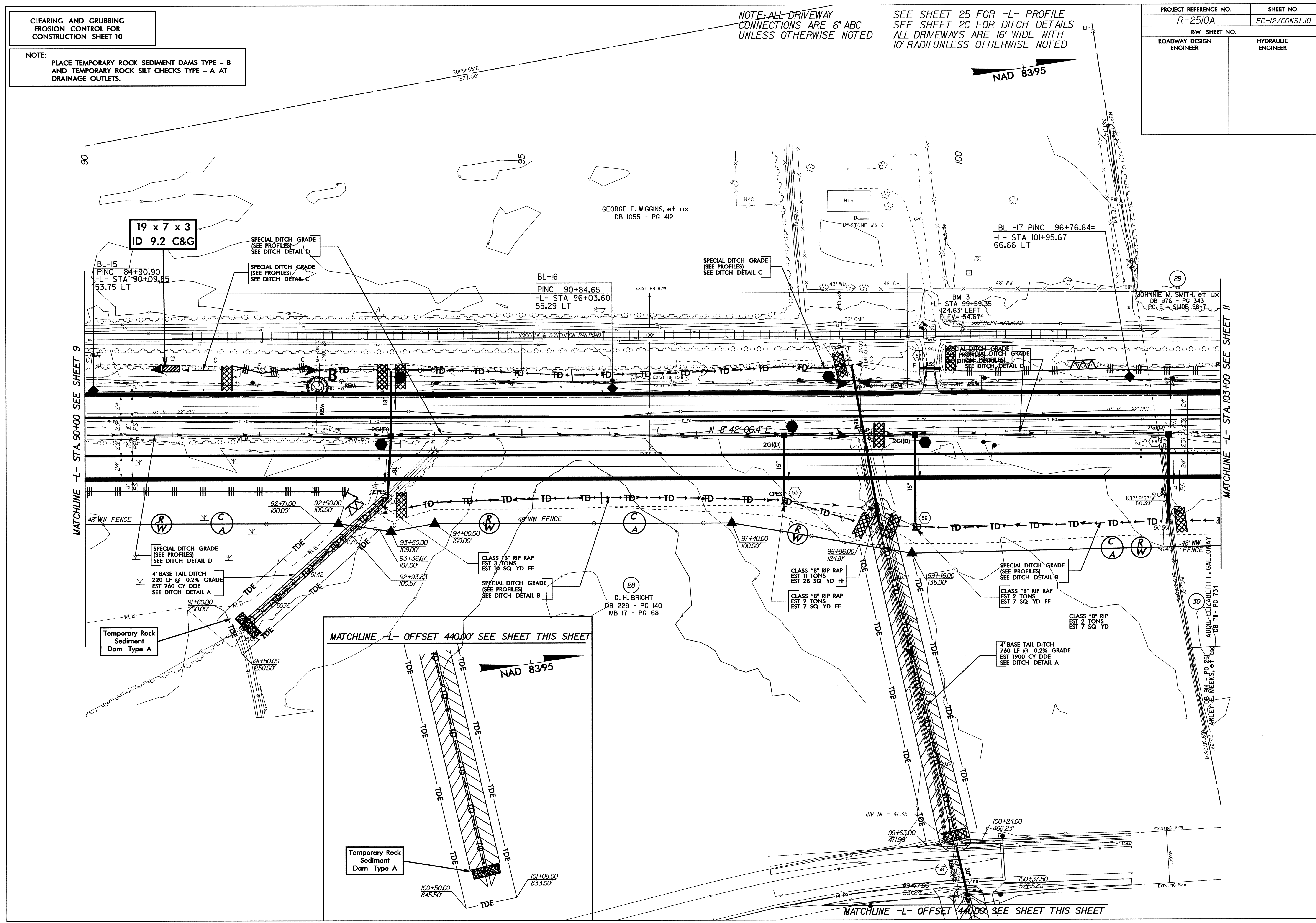
CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 10

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

NOTE: ALL DRIVEWAY  
CONNECTIONS ARE 6" ABC  
UNLESS OTHERWISE NOTED

SEE SHEET 25 FOR -L- PROFILE  
SEE SHEET 2C FOR DITCH DETAILS  
ALL DRIVEWAYS ARE 16' WIDE WITH  
10' RADII UNLESS OTHERWISE NOTED

PROJECT REFERENCE NO. R-2510A	SHEET NO. EC-12/CONST.10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER



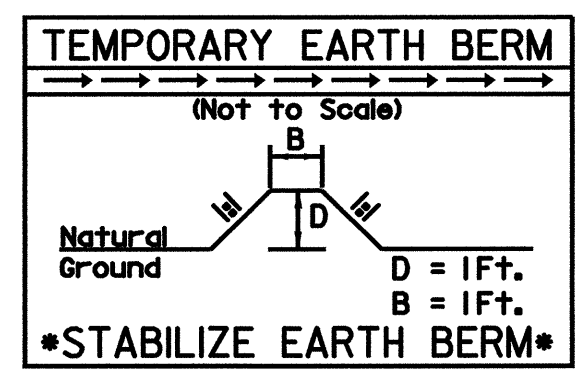
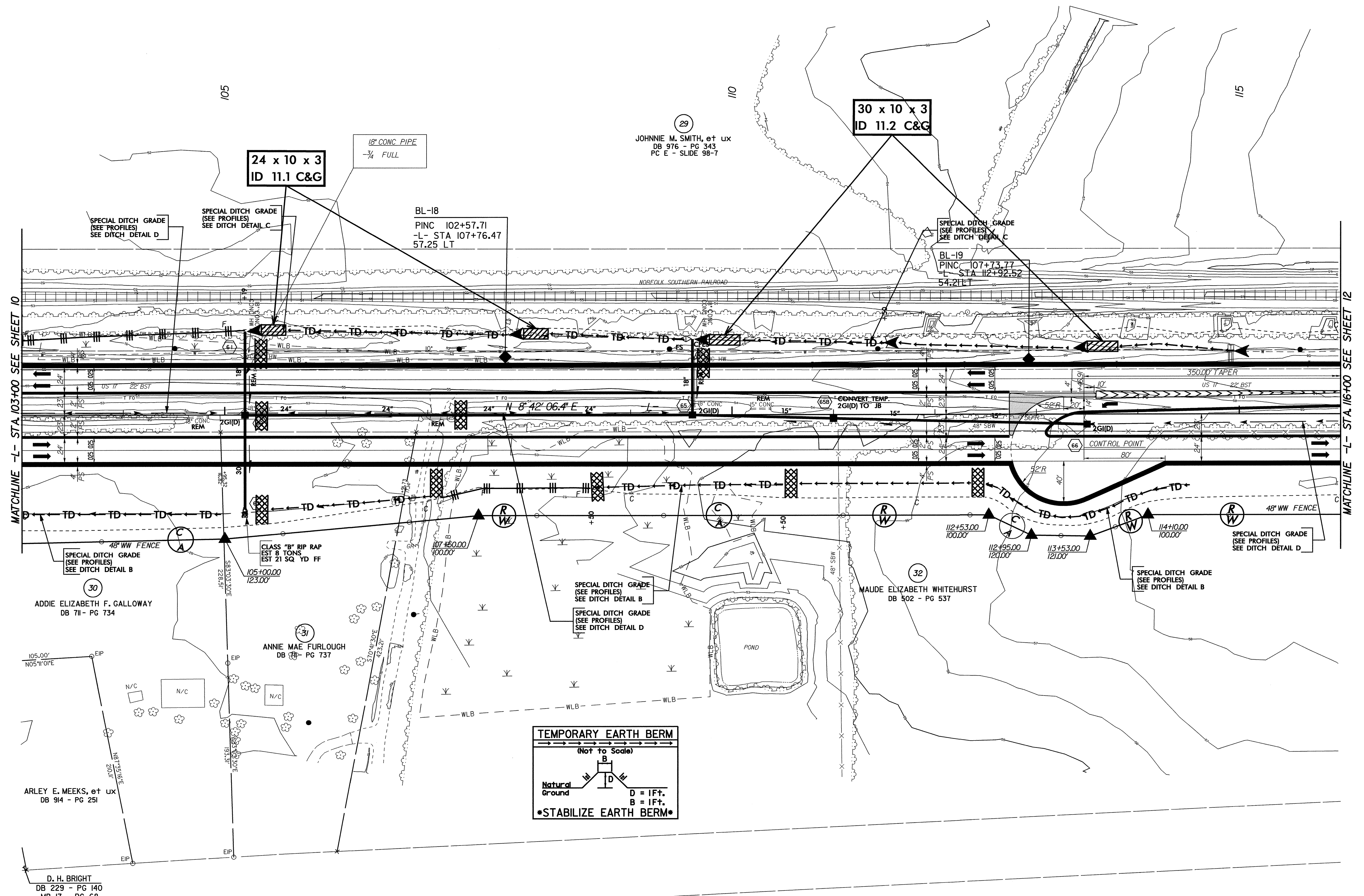
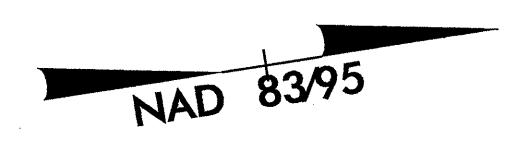


CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 11

NOTE:

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

PROJECT REFERENCE NO. R-2510A	SHEET NO. EC-13/CONST.11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER



MATCHLINE -L- STA. 103+00 SEE SHEET 10

MATCHLINE -L- STA. 116+00 SEE SHEET 12

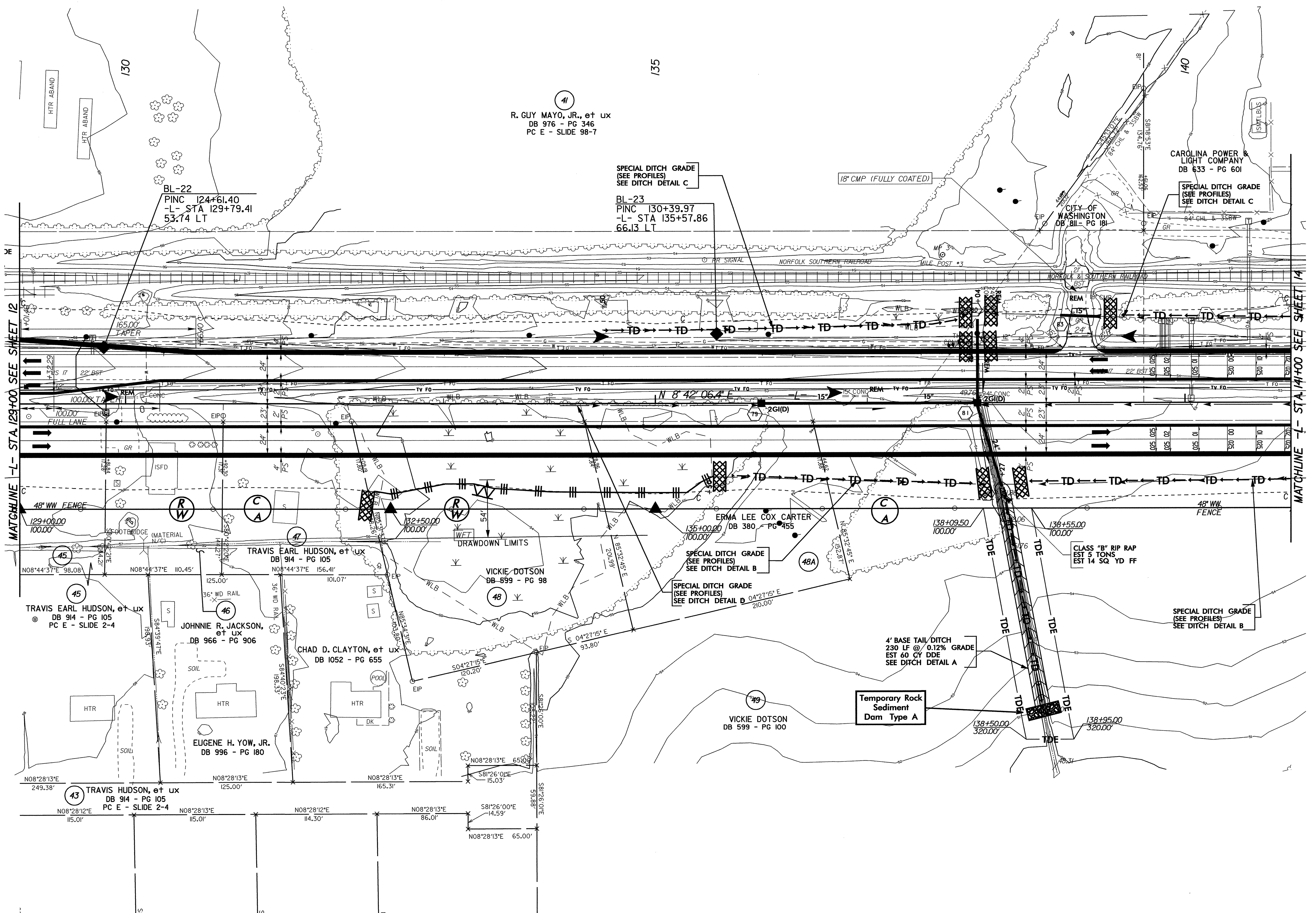
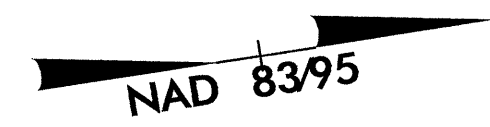






NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

PROJECT REFERENCE NO. R-2510A	SHEET NO. EC-15/CONST.13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER





CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 14

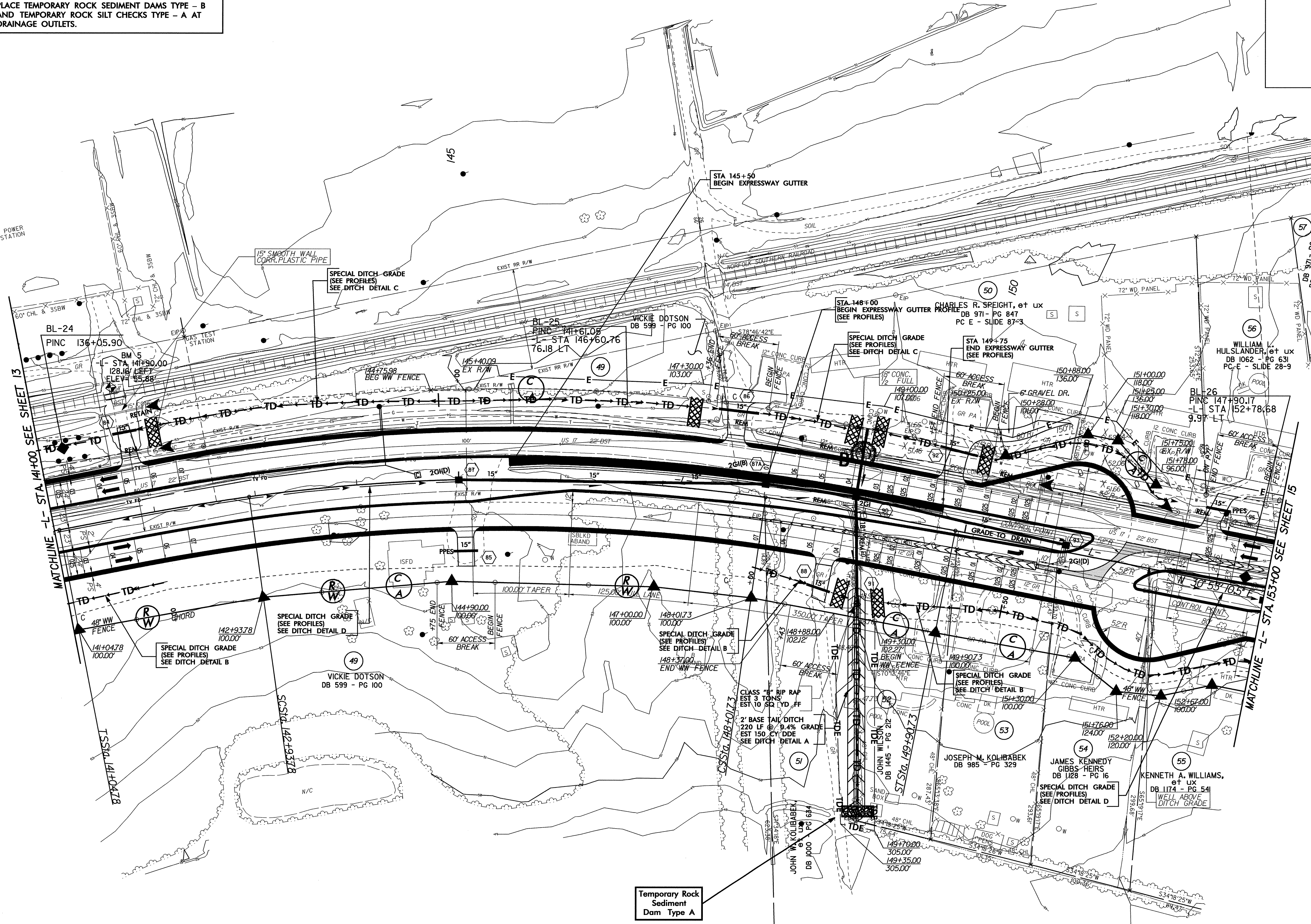
NOTE:

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

PROJECT REFERENCE NO. R-2510A	SHEET NO. EC-16/CONST.14
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER

1/4"

NAD 8395



Temporary Rock  
Sediment  
Dam Type A

51  
JOHN W. KOLIBABEK, et ux  
DB 1000 - PG 634

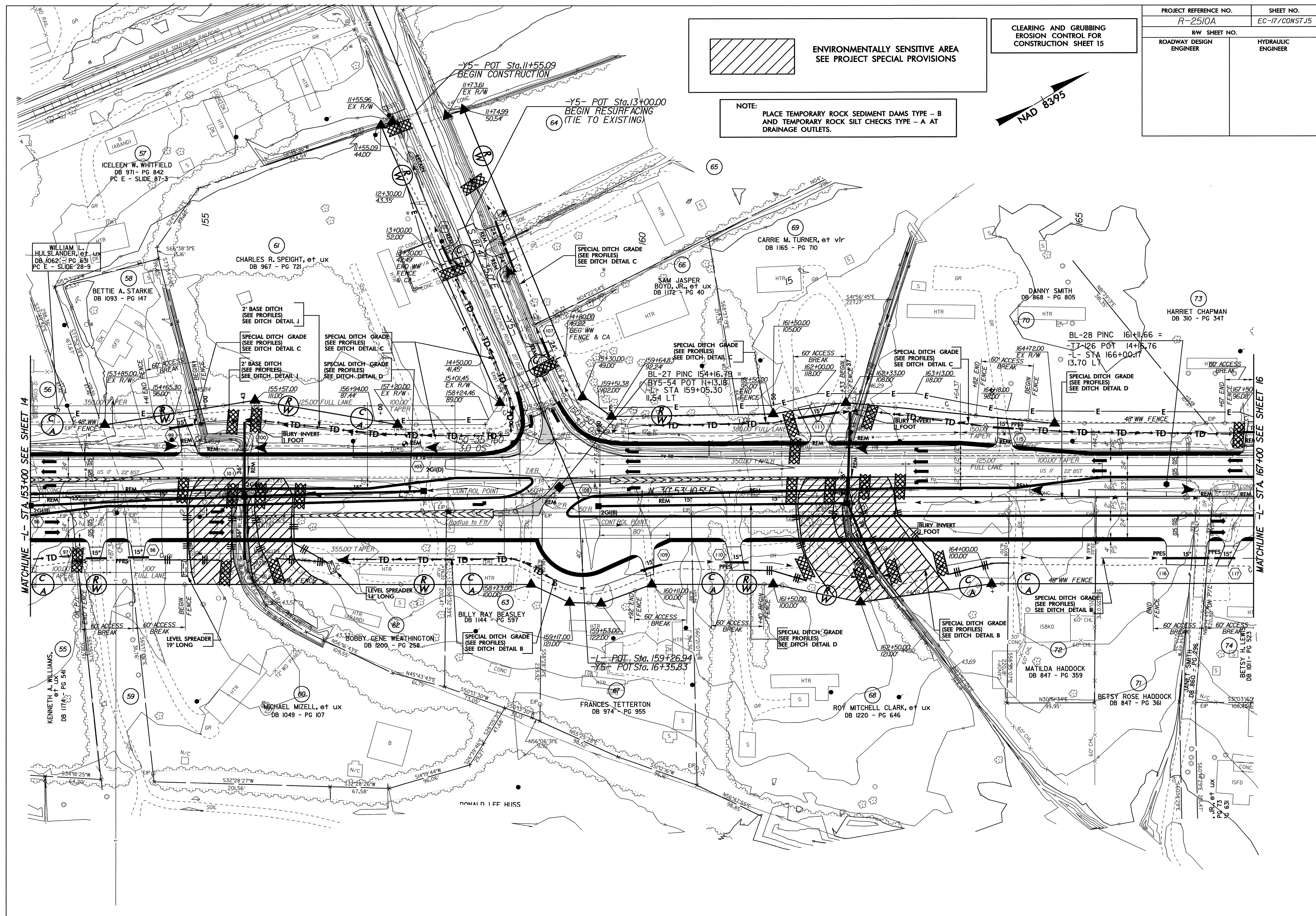


PROJECT REFERENCE NO.	SHEET NO.
R-2510A	EC-17/CONST.15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER

**ENVIRONMENTALLY SENSITIVE AREA**  
SEE PROJECT SPECIAL PROVISIONS

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 15

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

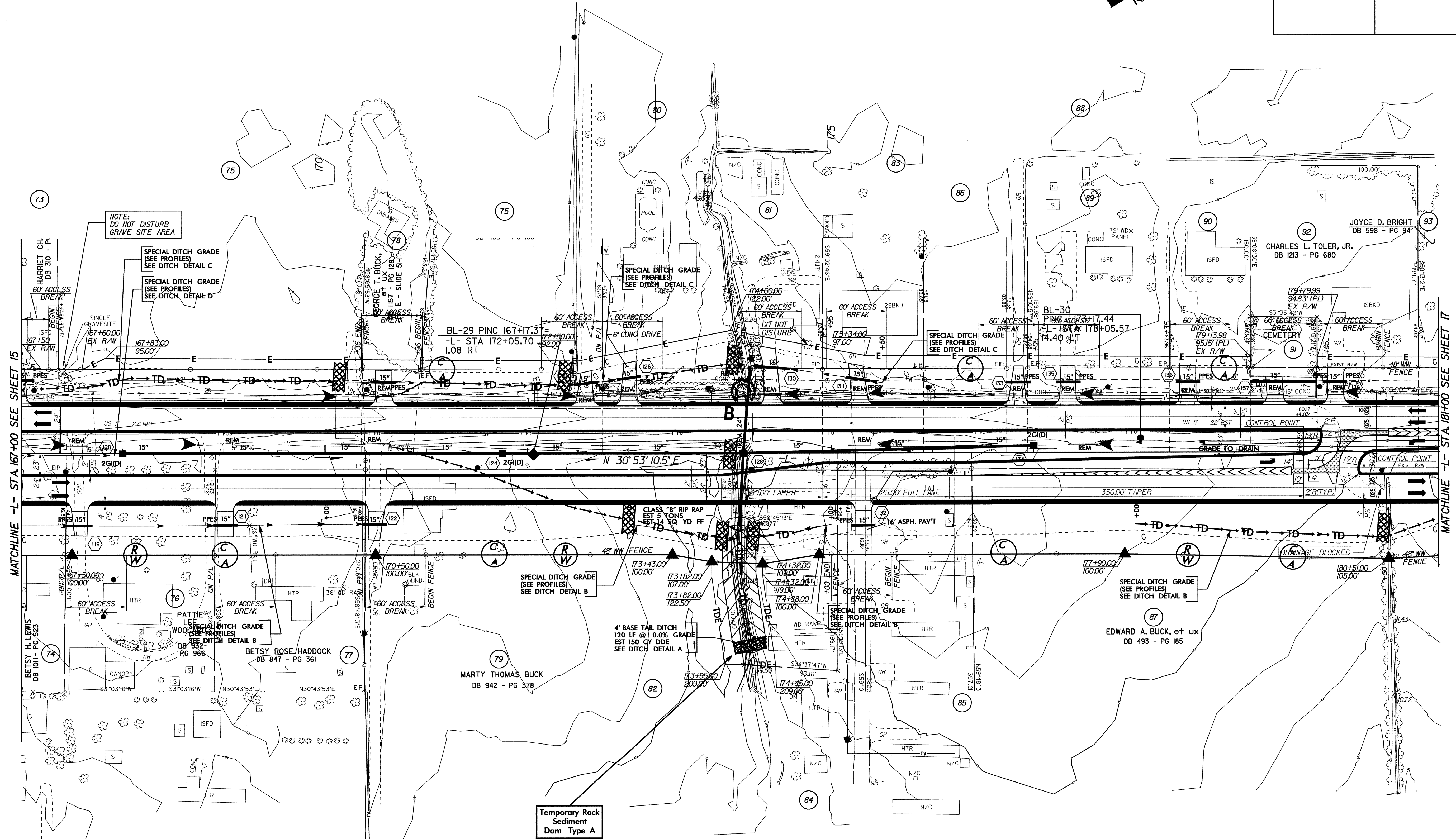
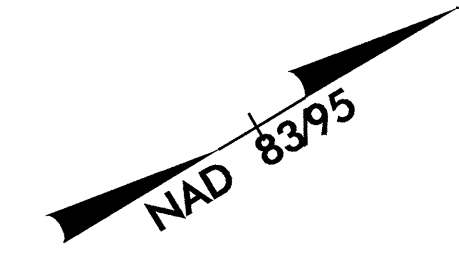


MATCHLINE - L - STA 153+00 SEE SHEET 14

MATCHLINE - L - STA 167+00 SEE SHEET 16



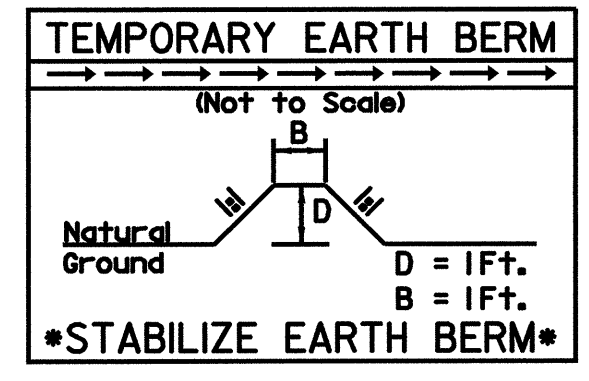
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.



MATCHLINE -L- STA 167+00 SEE SHEET 15

MATCHLINE -L- STA 180+00 SEE SHEET 17

Temporary Rock  
Sediment  
Dam Type A



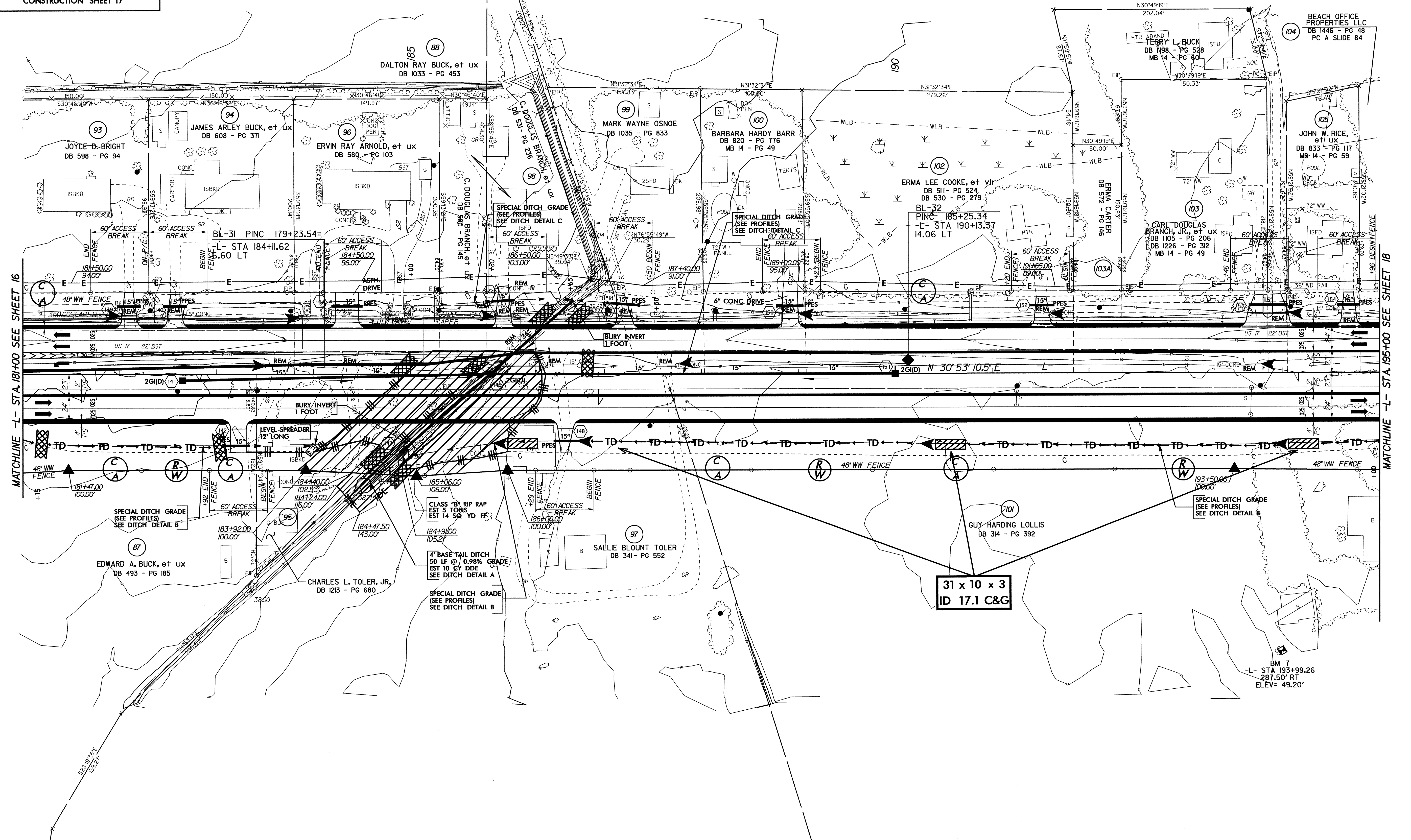
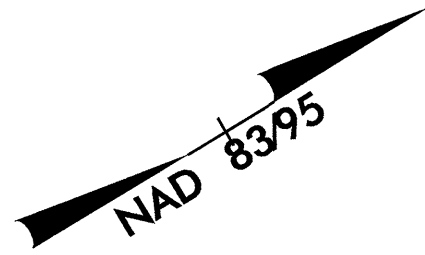


PROJECT REFERENCE NO. <i>R-2510A</i>	SHEET NO. <i>EC-19/CONST.17</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER

 ENVIRONMENTALLY SENSITIVE AREA  
SEE PROJECT SPECIAL PROVISIONS

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 17



MATCHLINE -L- STA. 184+00 SEE SHEET 16

MATCHLINE -L- STA. 195+00 SEE SHEET 18

31 x 10 x 3  
ID 17.1 C&G

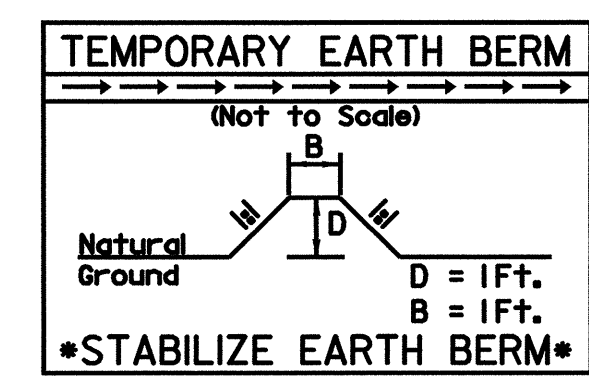
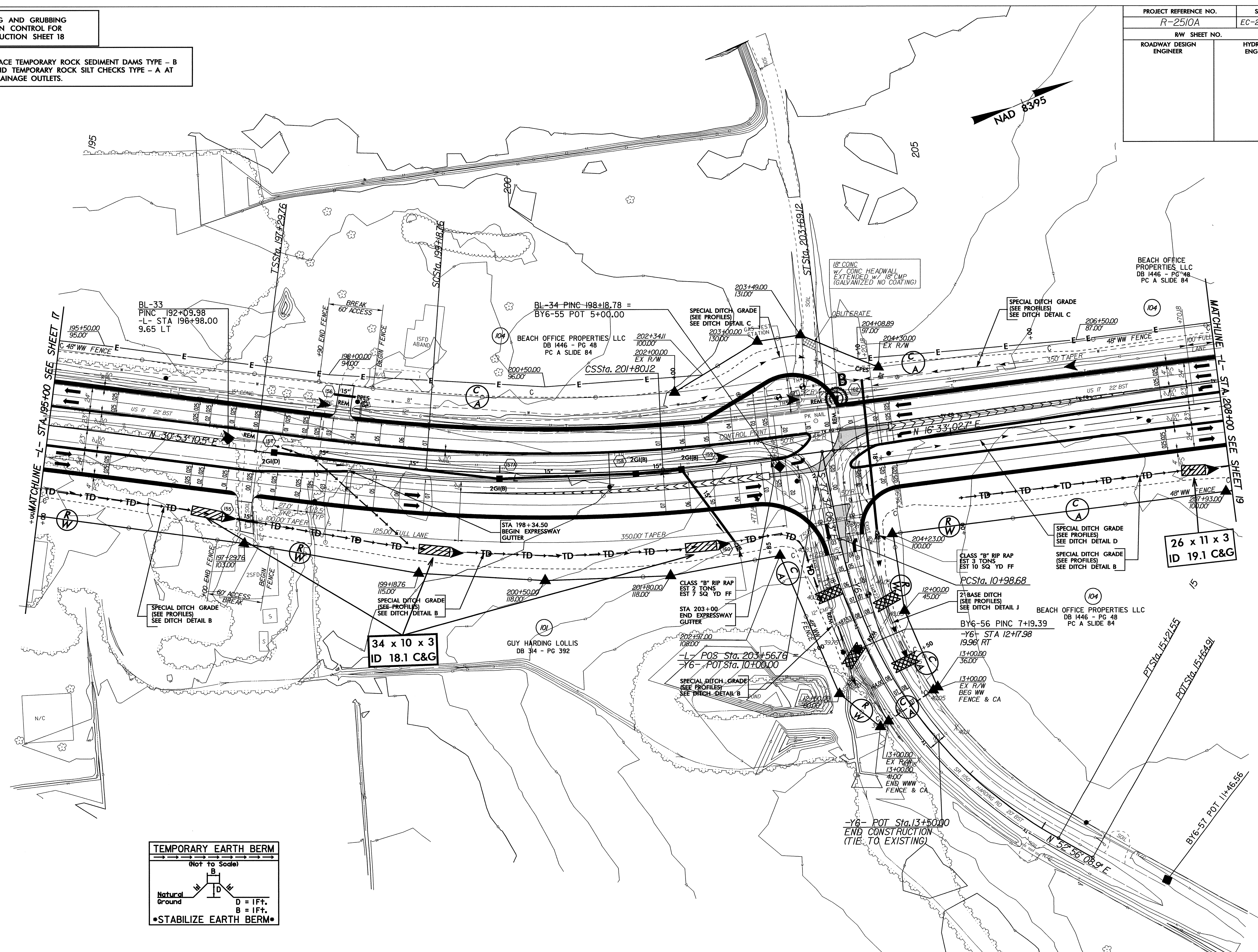
BM 7  
-L- STA 193+99.26  
287.50' RT  
ELEV= 49.20'



**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.

PROJECT REFERENCE NO. R-2510A	SHEET NO. EC-20/CONST.18
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER



**34 x 10 x 3  
ID 18.1 C&G**

**26 x 11 x 3  
ID 19.1 C&G**

-Y6- POT Sta. 13+50.00  
END CONSTRUCTION  
(TIE TO EXISTING)

CLASS "B" RIP RAP  
EST 3 TONS  
EST 10 SQ YD FF

2" BASE DITCH  
(SEE PROFILES)  
SEE DITCH DETAIL J

BY6-56 PINC 7+19.39  
-Y6- STA 12+7.98  
19.96' RT

13+00.00  
EX R/W  
BEG WW  
FENCE & CA

CLASS "B" RIP RAP  
EST 2 TONS  
EST 7 SQ YD FF

STA 203+00  
END EXPRESSWAY  
GUTTER

-L- POS Sta. 203+56.76  
-Y6- POT Sta. 10+08.00

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

BL-33  
PINC 192+09.98  
-L- STA 196+98.00  
9.65 LT

BL-34 PINC 198+18.78 =  
BY6-55 POT 5+00.00

BEACH OFFICE  
PROPERTIES, LLC  
DB 1446 - PG 48  
PC A SLIDE 84

BEACH OFFICE PROPERTIES, LLC  
DB 1446 - PG 48  
PC A SLIDE 84

BEACH OFFICE PROPERTIES, LLC  
DB 1446 - PG 48  
PC A SLIDE 84

GUY HARDING LOLLIS  
DB 314 - PG 392

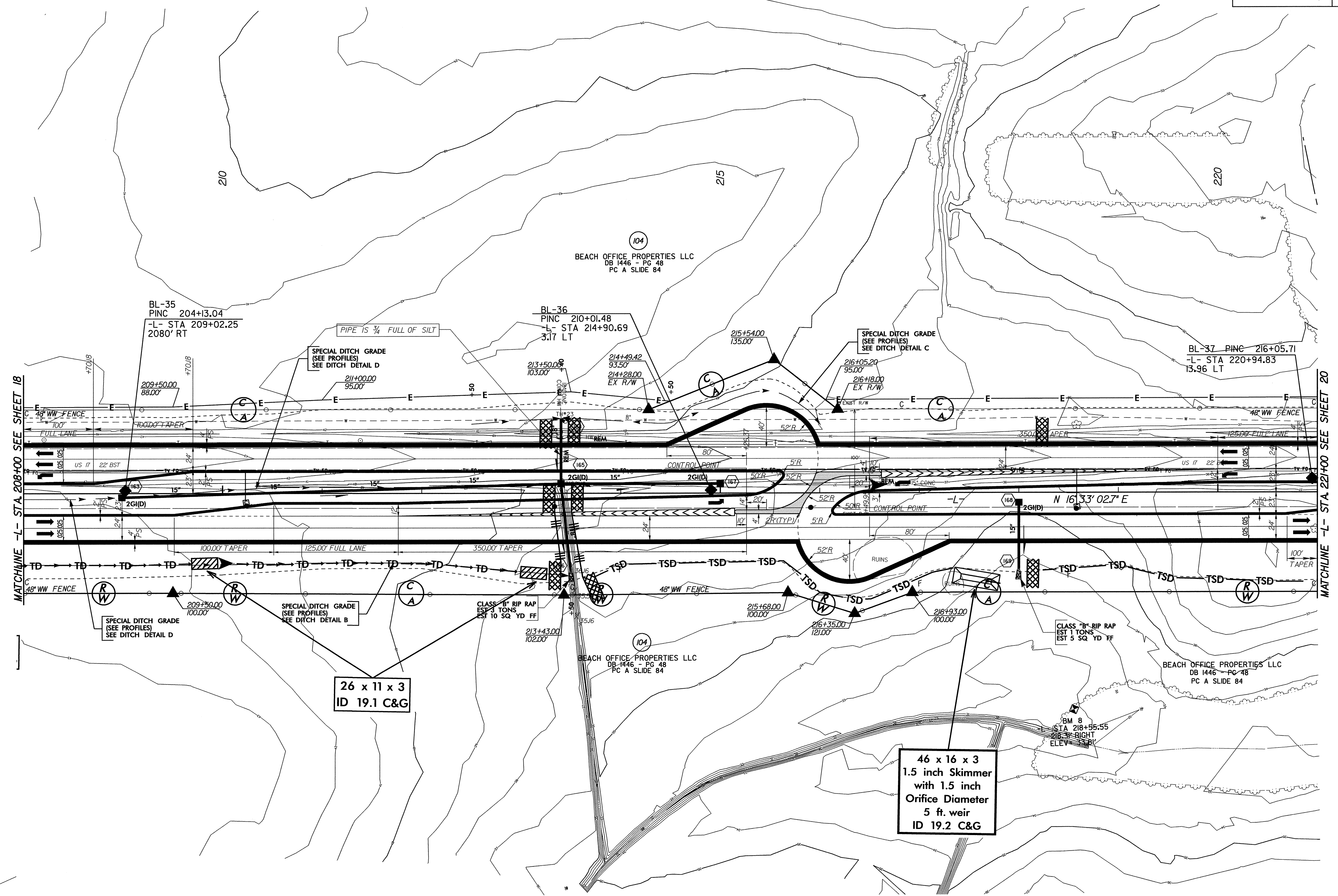
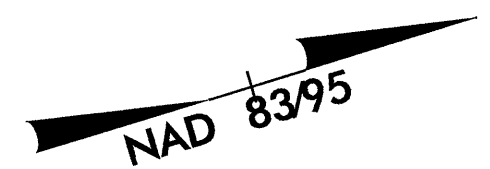
NAD 8395

MATCHLINE -L- STA 195+00 SEE SHEET 17

MATCHLINE -L- STA 208+00 SEE SHEET 19

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

PROJECT REFERENCE NO. R-2510A	SHEET NO. EC-21/CONST.19
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER



104  
BEACH OFFICE PROPERTIES LLC  
DB 1446 - PG 48  
PC A SLIDE 84

BL-35  
PINC 204+13.04  
-L- STA 209+02.25  
2080' RT

BL-36  
PINC 210+01.48  
-L- STA 214+90.69  
3.17 LT

BL-37 PINC 216+05.71  
-L- STA 220+94.83  
13.96 LT

26 x 11 x 3  
ID 19.1 C&G

46 x 16 x 3  
1.5 inch Skimmer  
with 1.5 inch  
Orifice Diameter  
5 ft. weir  
ID 19.2 C&G

104  
BEACH OFFICE PROPERTIES LLC  
DB 1446 - PG 48  
PC A SLIDE 84

BEACH OFFICE PROPERTIES LLC  
DB 1446 - PG 48  
PC A SLIDE 84

BM 8  
STA 218+95.55  
218+31 RIGHT  
ELEV = 22.00





PROJECT REFERENCE NO.	SHEET NO.
R-2510A	EC-23/CONST.20
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

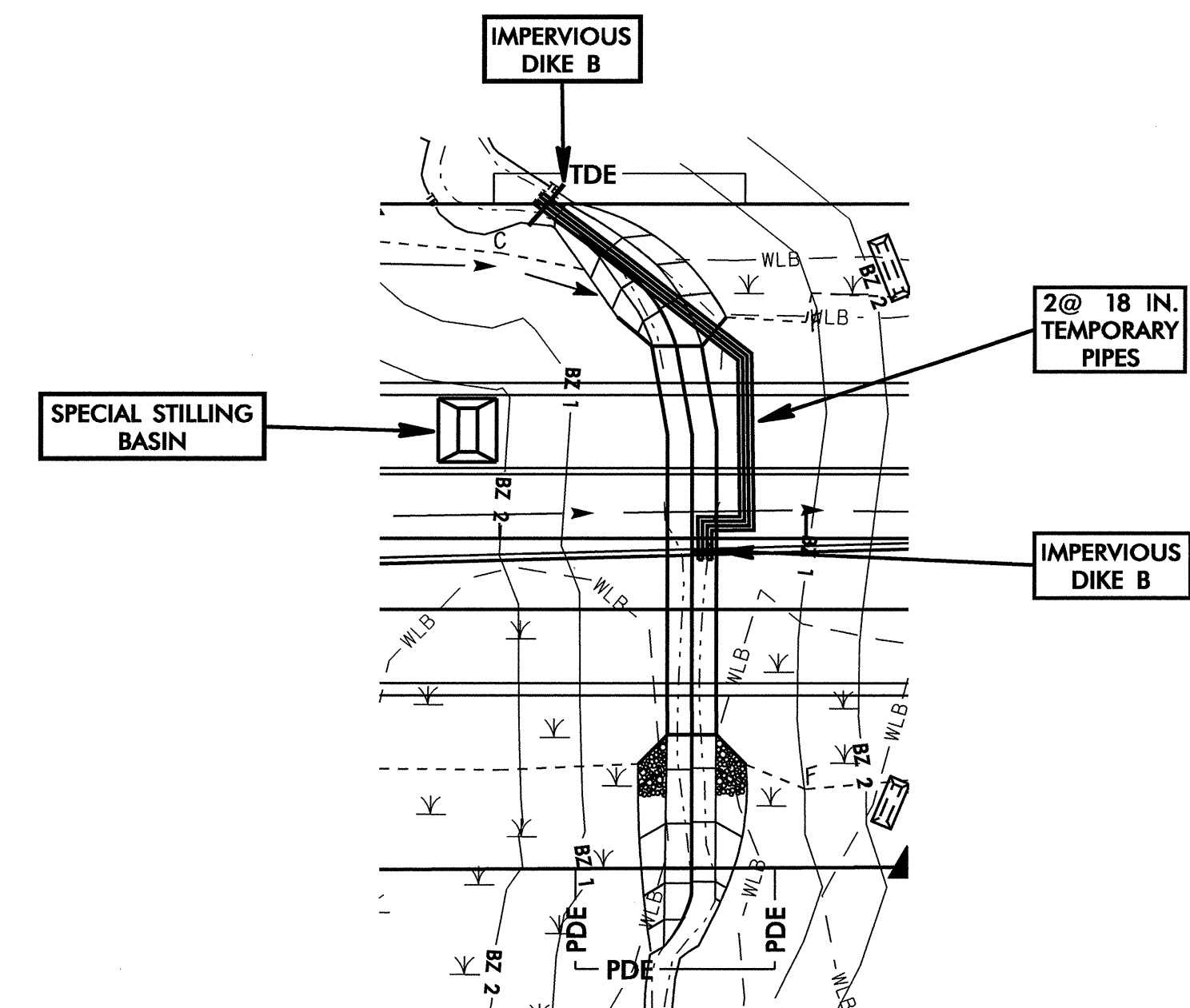
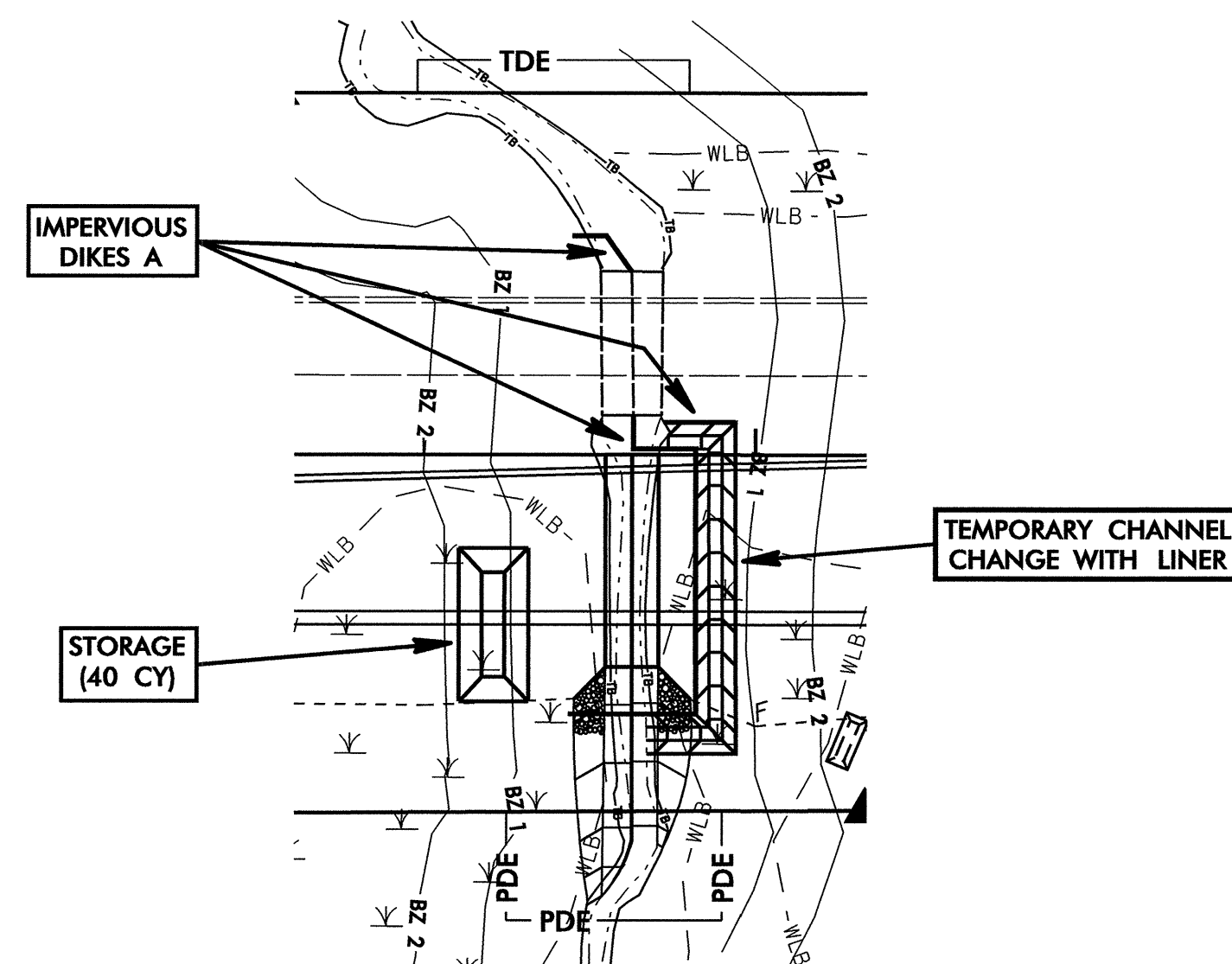
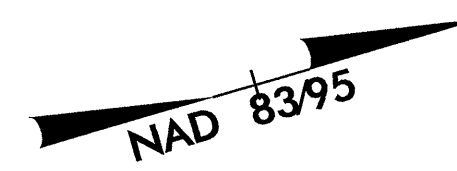
# CULVERT CONSTRUCTION SEQUENCE STA. 224+62.8 -L-

## PHASE I

1. CONSTRUCT STILLING BASIN (40 CY).
2. CONSTRUCT TEMPORARY CHANNEL CHANGE WITH LINER (2 FT. DEEP, 4 FT. BASE, 2:1 SIDE SLOPES).
3. CONSTRUCT IMPERVIOUS DIKES A, DIVERTING FLOW THROUGH TEMPORARY CHANNEL CHANGE.
4. CONSTRUCT DOWNSTREAM PORTION OF PROPOSED CULVERT, INCLUDING OUTLET CHANNEL IMPROVEMENTS.
5. REMOVE TEMPORARY CHANNEL CHANGE AND IMPERVIOUS DIKES A, AND DIVERT FLOW THROUGH PROPOSED CULVERT.
6. CONSTRUCT PROPOSED NORTHBOUND LANES, AND SHIFT TRAFFIC.

## PHASE II

7. INSTALL SPECIAL STILLING BASIN.
8. CONSTRUCT IMPERVIOUS DIKES B AND INSTALL 2 @ 18 INCH TEMPORARY PIPES, DIVERTING FLOW AROUND EXISTING CULVERT.
9. REMOVE EXISTING CULVERT.
10. SHIFT TEMPORARY PIPES WITHIN WORK AREA AS REQUIRED.
11. CONSTRUCT UPSTREAM PORTION OF PROPOSED CULVERT, INCLUDING INLET CHANNEL IMPROVEMENTS.
12. REMOVE IMPERVIOUS DIKES B AND TEMPORARY PIPES, DIVERTING FLOW THROUGH PROPOSED CULVERT.
13. COMPLETE ROADWAY.



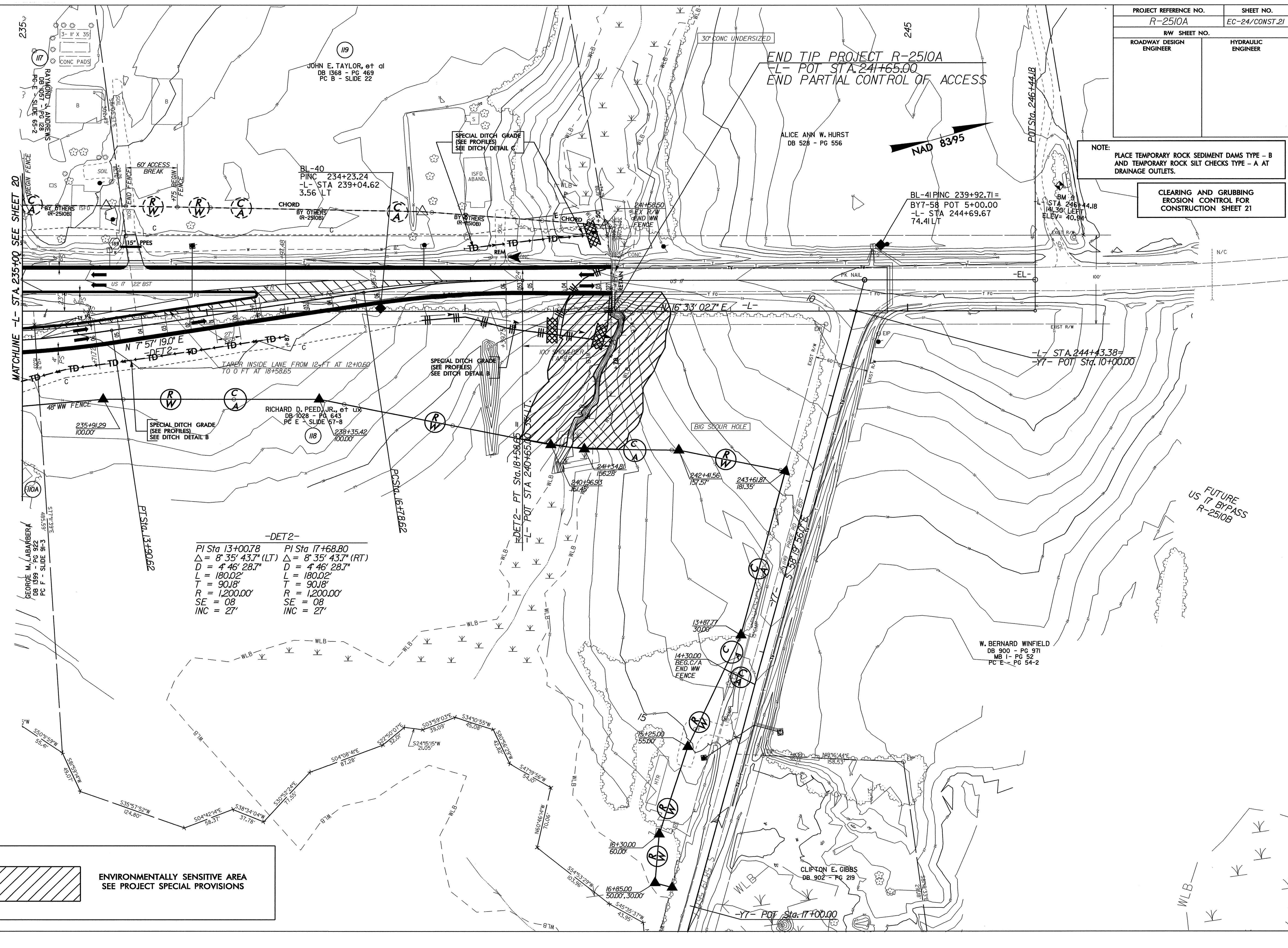


PROJECT REFERENCE NO.	SHEET NO.
R-2510A	EC-24/CONST.21
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER

END TIP PROJECT R-2510A  
 FL- POT STA. 241+65.00  
 END PARTIAL CONTROL OF ACCESS

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



-DET2-

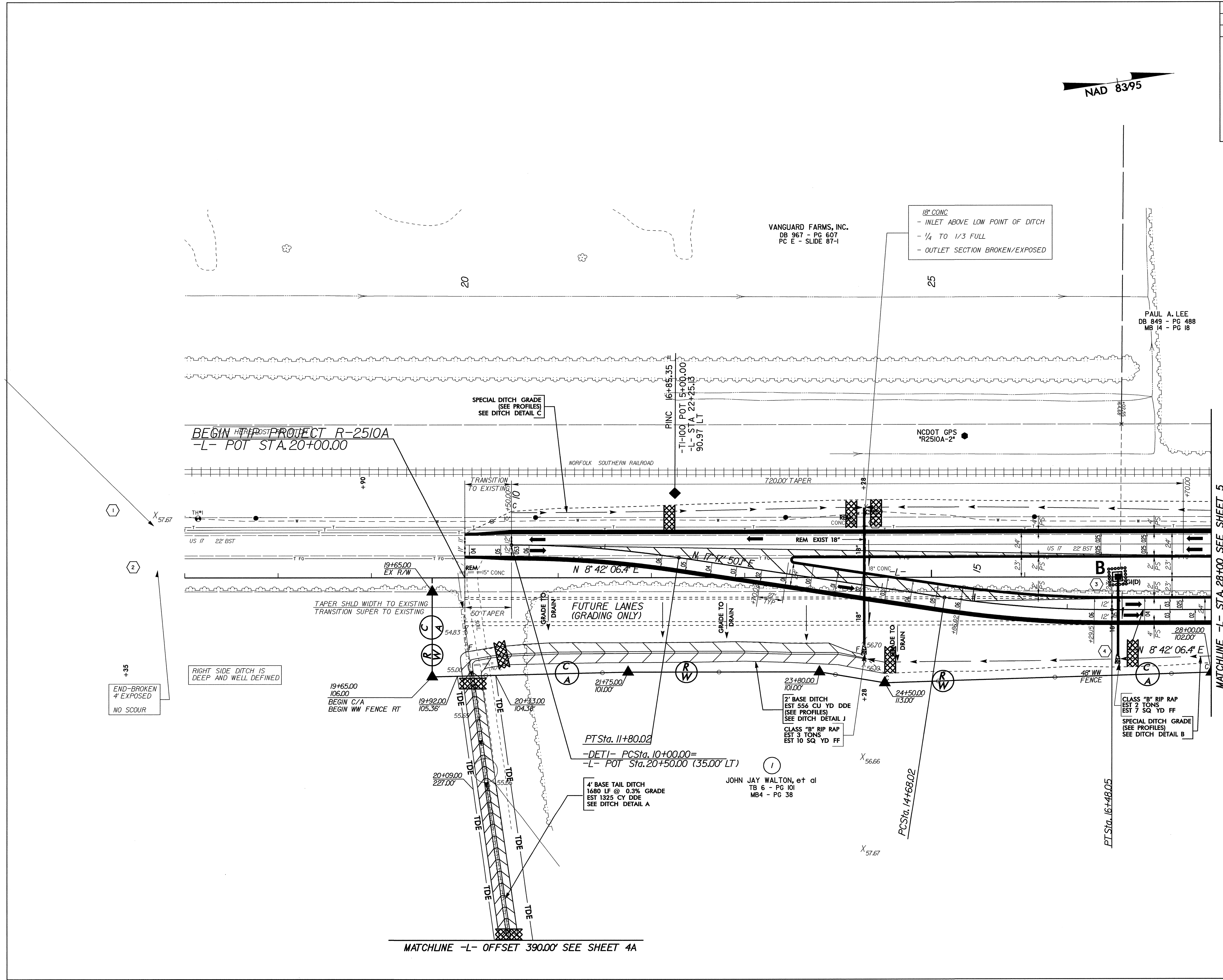
PI Sta 13+00.78	PI Sta 17+68.80
$\Delta = 8' 35' 43.7''$ (LT)	$\Delta = 8' 35' 43.7''$ (RT)
$D = 4' 46' 28.7''$	$D = 4' 46' 28.7''$
$L = 180.02'$	$L = 180.02'$
$T = 90.18'$	$T = 90.18'$
$R = 1,200.00'$	$R = 1,200.00'$
$SE = 08$	$SE = 08$
$INC = 27'$	$INC = 27'$

 ENVIRONMENTALLY SENSITIVE AREA  
 SEE PROJECT SPECIAL PROVISIONS

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 \projects\2510a\ec\24\const\21\design\2510a\_ec\_pah\_21.dgn  
 mason

PROJECT REFERENCE NO. R-2510A	SHEET NO. EC-25/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER

NAD 8395



VANGUARD FARMS, INC.  
DB 967 - PG 607  
PC E - SLIDE 87-1

18" CONC  
- INLET ABOVE LOW POINT OF DITCH  
- 1/4 TO 1/3 FULL  
- OUTLET SECTION BROKEN/EXPOSED

PAUL A. LEE  
DB 849 - PG 488  
MB 14 - PG 18

BEGIN PROJECT R-2510A  
-L- POT STA. 20+00.00

END-BROKEN  
4' EXPOSED  
NO SCOUR

RIGHT SIDE DITCH IS  
DEEP AND WELL DEFINED

4' BASE TAIL DITCH  
1680 LF @ 0.3% GRADE  
EST 1925 CY DDE  
SEE DITCH DETAIL A

2' BASE DITCH  
EST 556 CU YD DDE  
(SEE PROFILES)  
SEE DITCH DETAIL J  
CLASS "B" RIP RAP  
EST 3 TONS  
EST 10 SQ YD FF

CLASS "B" RIP RAP  
EST 2 TONS  
EST 7 SQ YD FF  
SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

JOHN JAY WALTON, et al  
TB 6 - PG 101  
MB4 - PG 38

MATCHLINE -L- OFFSET 390.00' SEE SHEET 4A

MATCHLINE -L- STA. 28+00 SEE SHEET 5



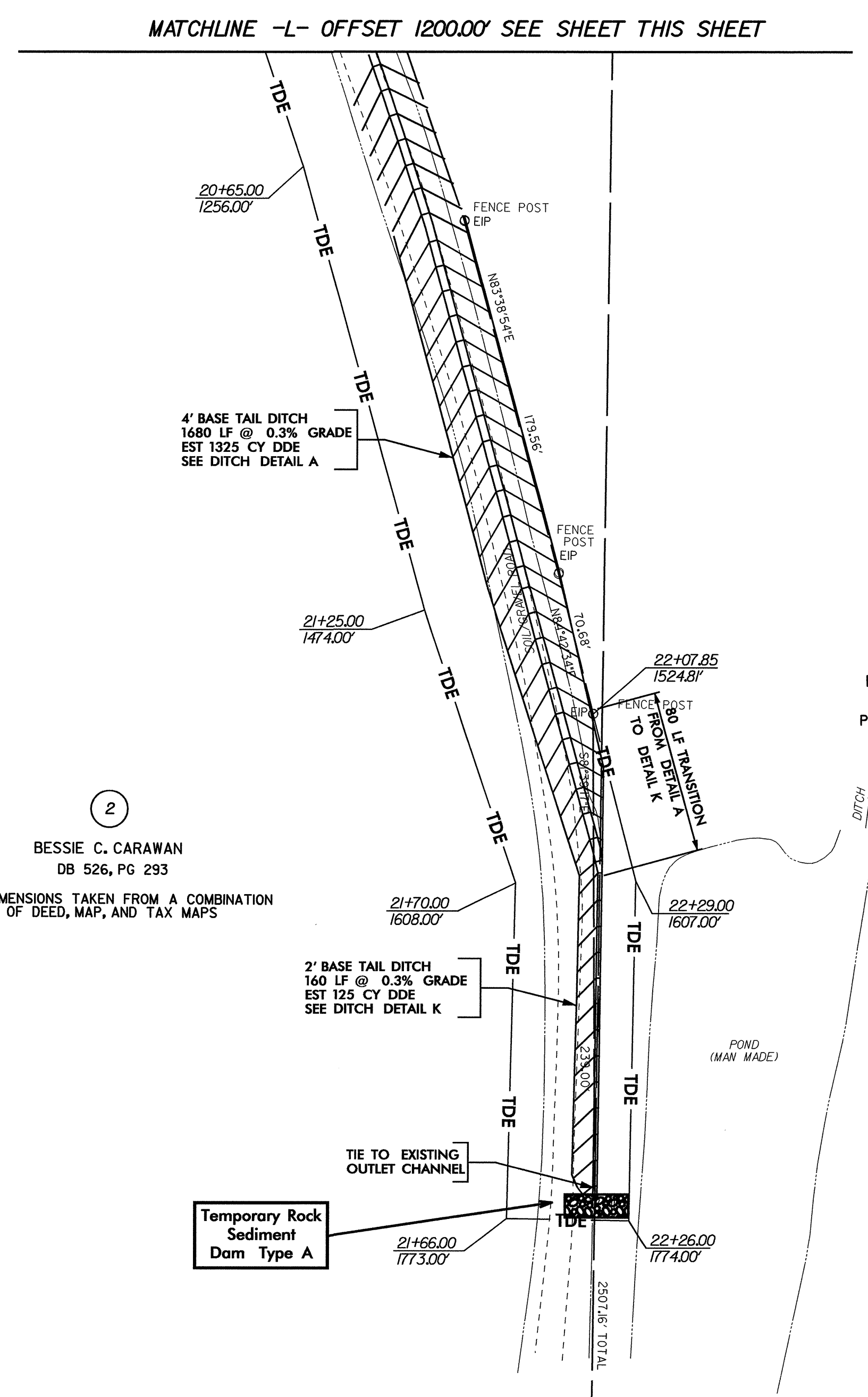
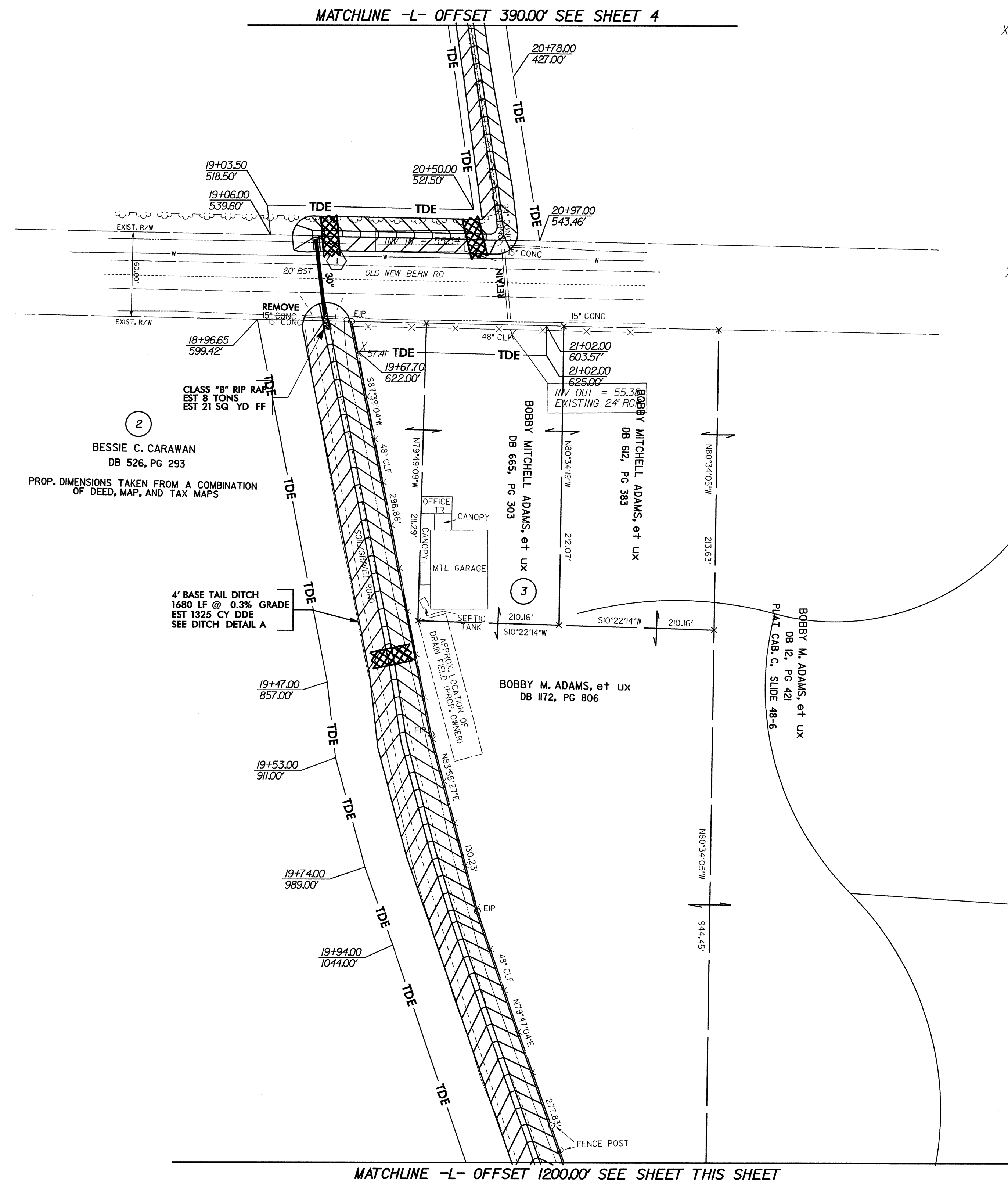
NOTE: ALL DRIVEWAY CONNECTIONS ARE 6" ABC UNLESS OTHERWISE NOTED

SEE SHEET 2C FOR DITCH DETAILS ALL DRIVEWAYS ARE 16' WIDE WITH 10' RADII UNLESS OTHERWISE NOTED

PROJECT REFERENCE NO. R-2510A	SHEET NO. EC-26/CONST. 4d
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER

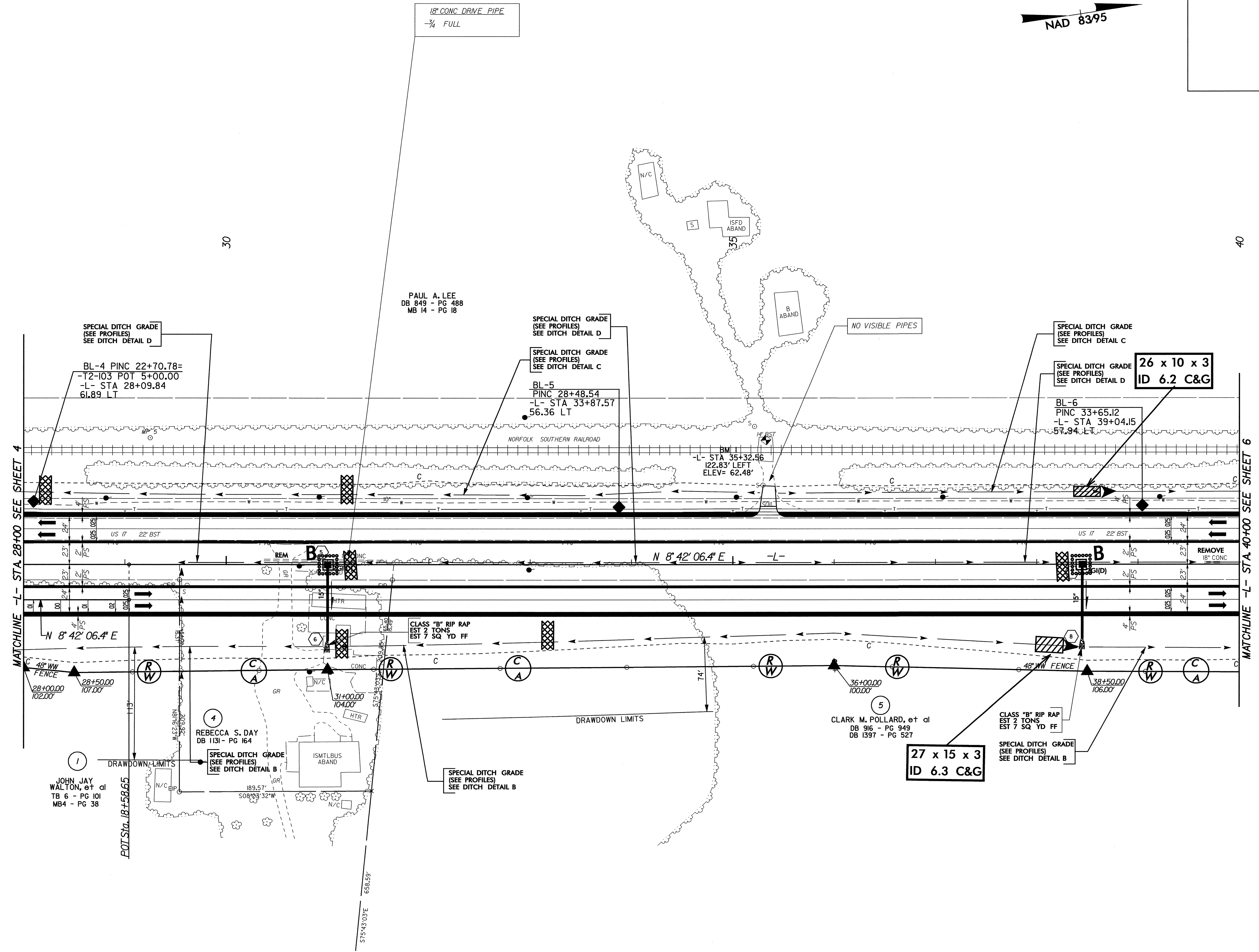
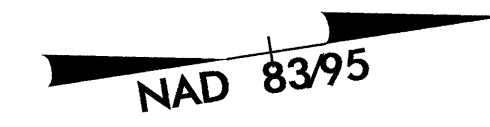
NAD 8395

NAD 8395



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 13-516-2007 10:40

PROJECT REFERENCE NO. <i>R-2510A</i>	SHEET NO. <i>EC-27/CONST.5</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER



18" CONC DRIVE PIPE  
-3/4 FULL

PAUL A. LEE  
DB 849 - PG 488  
MB 14 - PG 18

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL D

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL C

BL-5  
PINC 28+48.54  
-L- STA 33+87.57  
56.36 LT

NO VISIBLE PIPES

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL C

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL D

26 x 10 x 3  
ID 6.2 C&G

BL-6  
PINC 33+65.12  
-L- STA 39+04.15  
57.94 LT

BM 11  
122.83' LEFT  
ELEV= 62.48'

CLASS "B" RIP RAP  
EST 2 TONS  
EST 7 SQ YD FF

CLASS "B" RIP RAP  
EST 2 TONS  
EST 7 SQ YD FF

27 x 15 x 3  
ID 6.3 C&G

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL D

BL-4 PINC 22+70.78=  
-T2-103 POT 5+00.00  
-L- STA 28+09.84  
61.89 LT

JOHN JAY WALTON, et al  
TB 6 - PG 101  
MB 4 - PG 38

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

REBECCA S. DAY  
DB 1131 - PG 164

CLARK M. POLLARD, et al  
DB 916 - PG 949  
DB 1397 - PG 527

MATCHLINE -L- STA 28+00 SEE SHEET 4

MATCHLINE -L- STA 40+00 SEE SHEET 6

30

40



PROJECT REFERENCE NO.	SHEET NO.
R-2510A	EC-28/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER

40

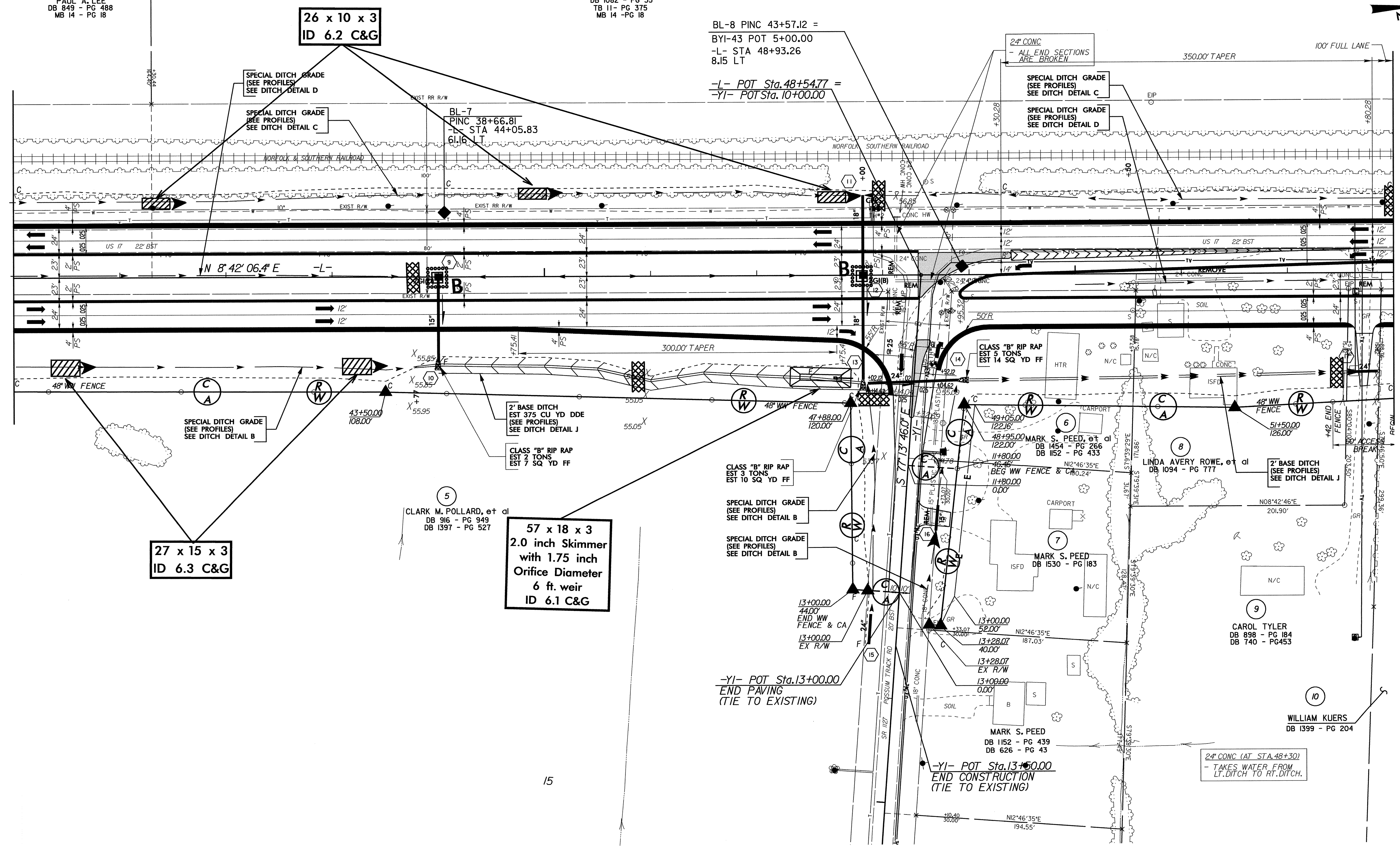
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50

PAUL A. LEE  
DB 849 - PG 488  
MB 14 - PG 18

WEYERHAEUSER COMPANY  
DB 1082 - PG 35  
TB 11 - PG 375  
MB 14 - PG 18

NAD 83/95



**26 x 10 x 3  
ID 6.2 C&G**

**27 x 15 x 3  
ID 6.3 C&G**

**57 x 18 x 3  
2.0 inch Skimmer  
with 1.75 inch  
Orifice Diameter  
6 ft. weir  
ID 6.1 C&G**

BL-8 PINC 43+57.12 =  
BYI-43 POT 5+00.00  
-L- STA 48+93.26  
8.15 LT

-L- POT Sta. 48+54.77 =  
-YI- POT Sta. 10+00.00

CLARK M. POLLARD, et al  
DB 916 - PG 949  
DB 1397 - PG 527

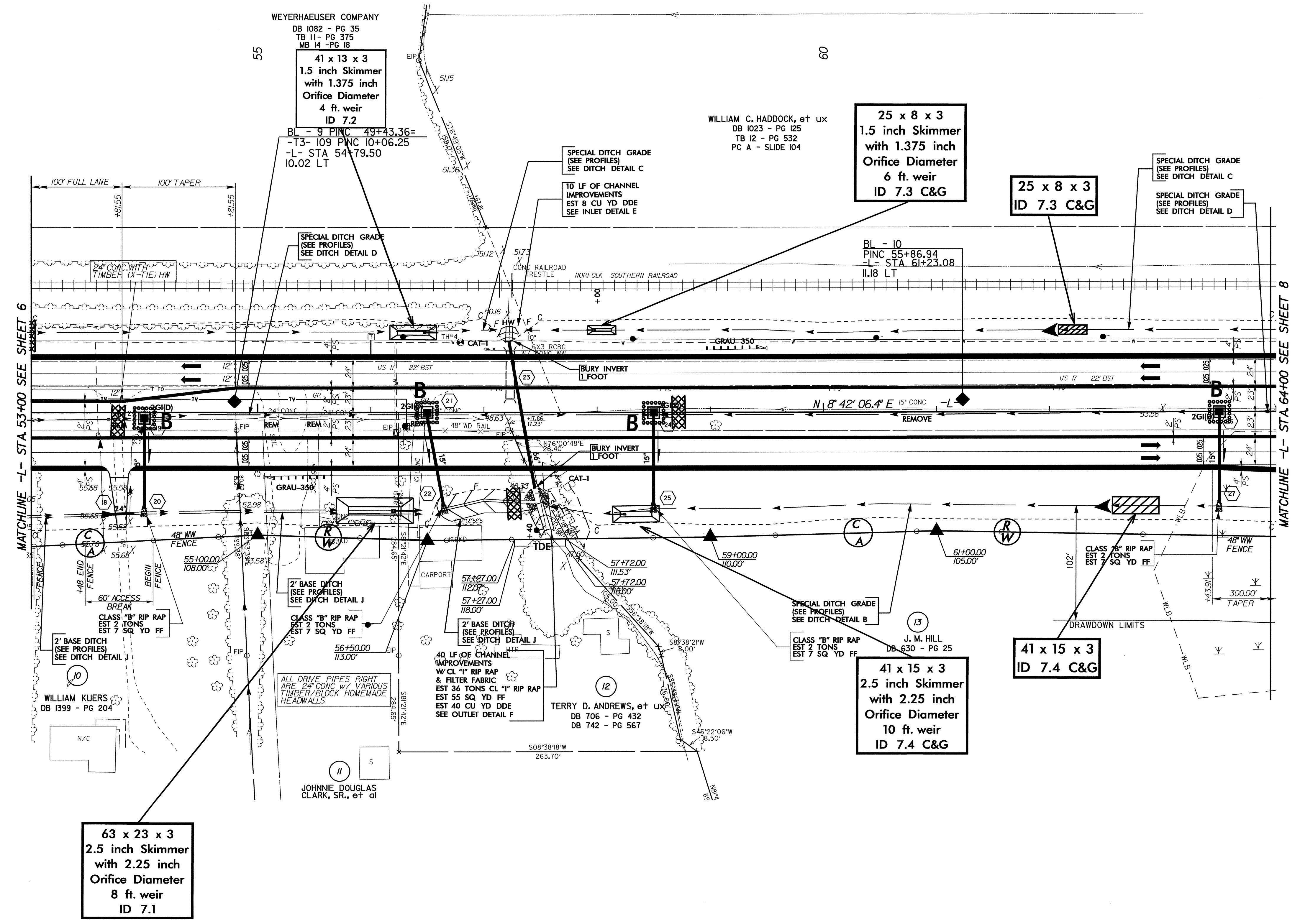
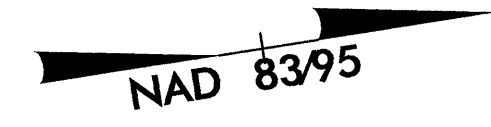
-YI- POT Sta. 13+50.00  
END CONSTRUCTION  
(TIE TO EXISTING)

-YI- POT Sta. 13+00.00  
END PAVING  
(TIE TO EXISTING)

2" CONC. (AT STA. 48+30)  
- TAKES WATER FROM  
LT. DITCH TO RT. DITCH.

15

PROJECT REFERENCE NO. <i>R-2510A</i>	SHEET NO. EC-29/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER



**63 x 23 x 3**  
2.5 inch Skimmer  
with 2.25 inch  
Orifice Diameter  
8 ft. weir  
ID 7.1

**41 x 13 x 3**  
1.5 inch Skimmer  
with 1.375 inch  
Orifice Diameter  
4 ft. weir  
ID 7.2

**25 x 8 x 3**  
1.5 inch Skimmer  
with 1.375 inch  
Orifice Diameter  
6 ft. weir  
ID 7.3 C&G

**25 x 8 x 3**  
ID 7.3 C&G

**41 x 15 x 3**  
2.5 inch Skimmer  
with 2.25 inch  
Orifice Diameter  
10 ft. weir  
ID 7.4 C&G

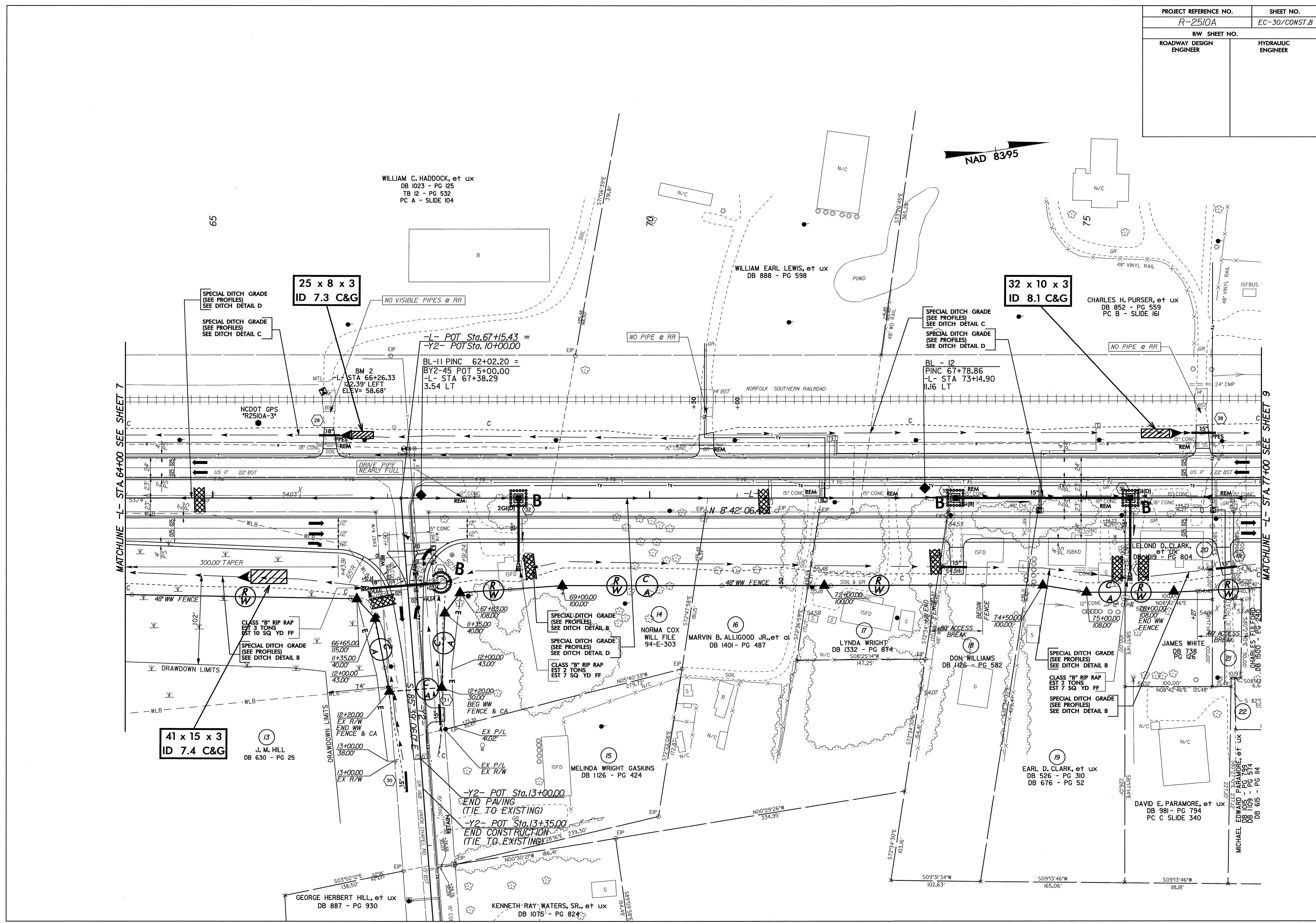
**41 x 15 x 3**  
ID 7.4 C&G

MATCHLINE -L- STA. 53+00 SEE SHEET 6

MATCHLINE -L- STA. 64+00 SEE SHEET 8



PROJECT REFERENCE NO.	SHEET NO.
R-2510A	EC-30/CONST.B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER



MATCHLINE -L- STA. 64+00 SEE SHEET 7

MATCHLINE -L- STA. 77+00 SEE SHEET 9

WILLIAM C. HADDOCK, et ux  
DB 1023 - PG 125  
TB 12 - PG 532  
PC A - SLIDE 104

WILLIAM EARL LEWIS, et ux  
DB 888 - PG 598

CHARLES H. PURSER, et ux  
DB 852 - PG 559  
PC B - SLIDE 161

LELOND D. CLARK, et ux  
DB 1019 - PG 804

JAMES WHITE  
DB 738  
PG 126

DAVID E. PARAMORE, et ux  
DB 981 - PG 794  
PC C SLIDE 340

41 x 15 x 3  
ID 7.4 C&G  
J. M. HILL  
DB 630 - PG 25

-Y2- POT Sta. 13+00.00  
END PAVING  
(TIE TO EXISTING)

-Y2- POT Sta. 13+35.00  
END CONSTRUCTION  
(TIE TO EXISTING)

GEORGE HERBERT HILL, et ux  
DB 887 - PG 930

KENNETH RAY WATERS, SR., et ux  
DB 1075 - PG 824

MARVIN B. ALLGOOD JR., et ux  
DB 1401 - PG 487

LYNDA WRIGHT  
DB 1332 - PG 874

DON WILLIAMS  
DB 1126 - PG 582

EARL D. CLARK, et ux  
DB 526 - PG 310  
DB 676 - PG 52

MICHAEL EDWARD  
DB 1105 - PG 799  
DB 1109 - PG 574  
DB 615 - PG 114

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL D

CLASS "B" RIP RAP  
EST 7 SQ YD FF

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

CLASS "B" RIP RAP  
EST 3 TONS  
EST 10 SQ YD FF

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL D

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL C

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL C

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL D

NO PIPE @ RR

NO PIPE @ RR

NO VISIBLE PIPES @ RR

-L- POT Sta. 67+15.43 =  
-Y2- POT Sta. 10+00.00

BL-11 PINC 62+02.20 =  
BY2-45 POT 5+00.00  
-L- STA 67+38.29  
3.54 LT

BL-12  
PINC 67+78.86  
-L- STA 73+14.90  
11.16 LT

25 x 8 x 3  
ID 7.3 C&G

32 x 10 x 3  
ID 8.1 C&G

NCDOT GPS  
R2510A-3"

BM 2  
STA 66+26.33  
122.39' LEFT  
ELEV= 58.68'

US 17 22' BST

NORFOLK SOUTHERN RAILROAD

24' CMP

300.00' TAPER

48" WW FENCE

CLASS "B" RIP RAP  
EST 3 TONS  
EST 10 SQ YD FF

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

CLASS "B" RIP RAP  
EST 7 SQ YD FF

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

CLASS "B" RIP RAP  
EST 7 SQ YD FF

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

CLASS "B" RIP RAP  
EST 7 SQ YD FF

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

CLASS "B" RIP RAP  
EST 7 SQ YD FF

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

12+20.00  
EX R/W  
END WW  
FENCE & CA

13+00.00  
EX R/W

13+00.00  
EX R/W

13+00.00  
EX R/W

13+00.00  
EX R/W

13+00.00  
EX R/W

13+00.00  
EX R/W

13+00.00  
EX R/W

13+00.00  
EX R/W

13+00.00  
EX R/W

12+20.00  
30.00'  
BEG WW  
FENCE & CA

12+20.00  
30.00'  
BEG WW  
FENCE & CA

12+20.00  
30.00'  
BEG WW  
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BEG WW  
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12+20.00  
30.00'  
BEG WW  
FENCE & CA

12+20.00  
30.00'  
BEG WW  
FENCE & CA

-Y2- POT Sta. 13+00.00  
END PAVING  
(TIE TO EXISTING)

-Y2- POT Sta. 13+35.00  
END CONSTRUCTION  
(TIE TO EXISTING)

-Y2- POT Sta. 13+35.00  
END CONSTRUCTION  
(TIE TO EXISTING)

-Y2- POT Sta. 13+35.00  
END CONSTRUCTION  
(TIE TO EXISTING)

-Y2- POT Sta. 13+35.00  
END CONSTRUCTION  
(TIE TO EXISTING)

-Y2- POT Sta. 13+35.00  
END CONSTRUCTION  
(TIE TO EXISTING)

-Y2- POT Sta. 13+35.00  
END CONSTRUCTION  
(TIE TO EXISTING)

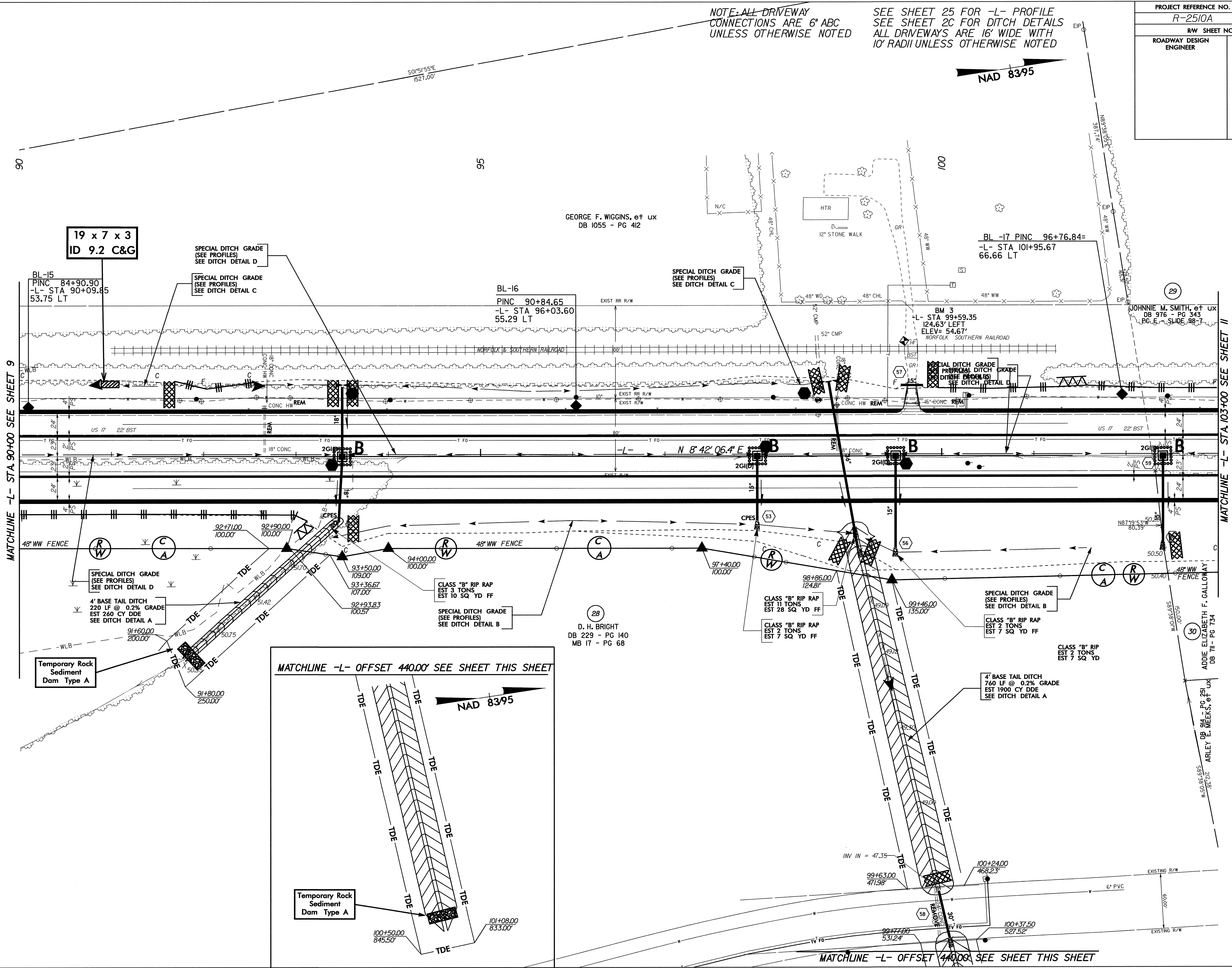




PROJECT REFERENCE NO.	SHEET NO.
R-2510A	EC-32/CONST.10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER

NOTE-ALL DRIVEWAY CONNECTIONS ARE 6" ABC UNLESS OTHERWISE NOTED

SEE SHEET 25 FOR -L- PROFILE  
SEE SHEET 2C FOR DITCH DETAILS  
ALL DRIVEWAYS ARE 16' WIDE WITH 10' RADII UNLESS OTHERWISE NOTED



19 x 7 x 3  
ID 9.2 C&G

BL-15  
PINC 84+90.90  
-L- STA 90+09.85  
53.75 LT

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL D

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL C

BL-16  
PINC 90+84.65  
-L- STA 96+03.60  
55.29 LT

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL C

BL -17 PINC 96+76.84=  
-L- STA 101+95.67  
66.66 LT

BM 3  
-L- STA 99+59.35  
124.63' LEFT  
ELEV= 54.67'

JOHNNIE M. SMITH, et ux  
DB 976 - PG 343  
PG. E. SLOPE 98.7'

MATCHLINE -L- STA 90+00 SEE SHEET 9

MATCHLINE -L- STA 103+00 SEE SHEET 11

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL D

4' BASE TAIL DITCH  
220 LF @ 0.2% GRADE  
EST 260 CY DDE  
SEE DITCH DETAIL A

Temporary Rock  
Sediment  
Dam Type A

CLASS "B" RIP RAP  
EST 3 TONS  
EST 10 SQ YD FF

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

CLASS "B" RIP RAP  
EST 11 TONS  
EST 28 SQ YD FF

CLASS "B" RIP RAP  
EST 2 TONS  
EST 7 SQ YD FF

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

CLASS "B" RIP RAP  
EST 7 TONS  
EST 7 SQ YD FF

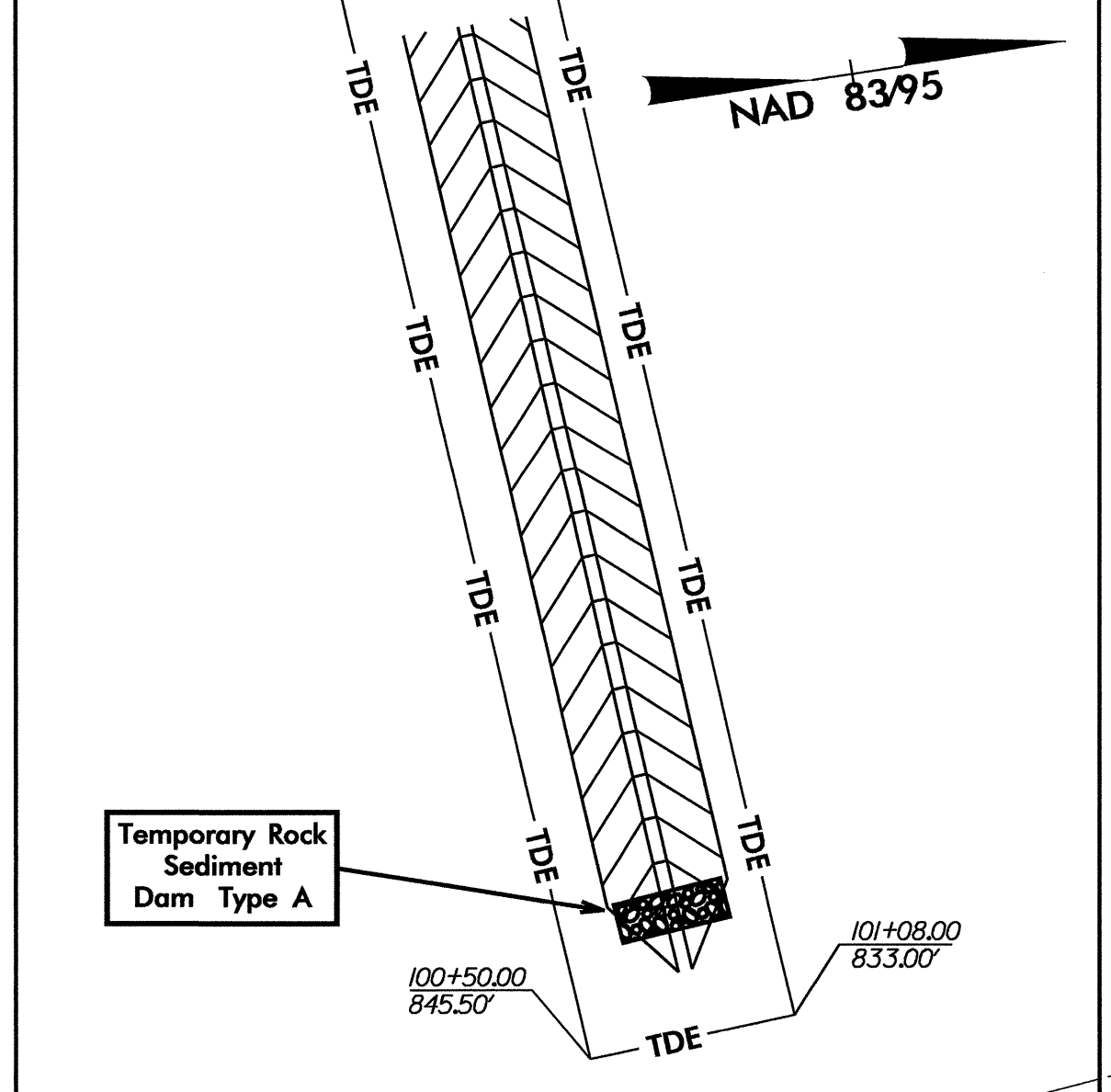
CLASS "B" RIP  
EST 2 TONS  
EST 7 SQ YD

4' BASE TAIL DITCH  
740 LF @ 0.2% GRADE  
EST 1900 CY DDE  
SEE DITCH DETAIL A

ADDIE ELIZABETH F. GALLOWAY  
DB 711 - PG 734

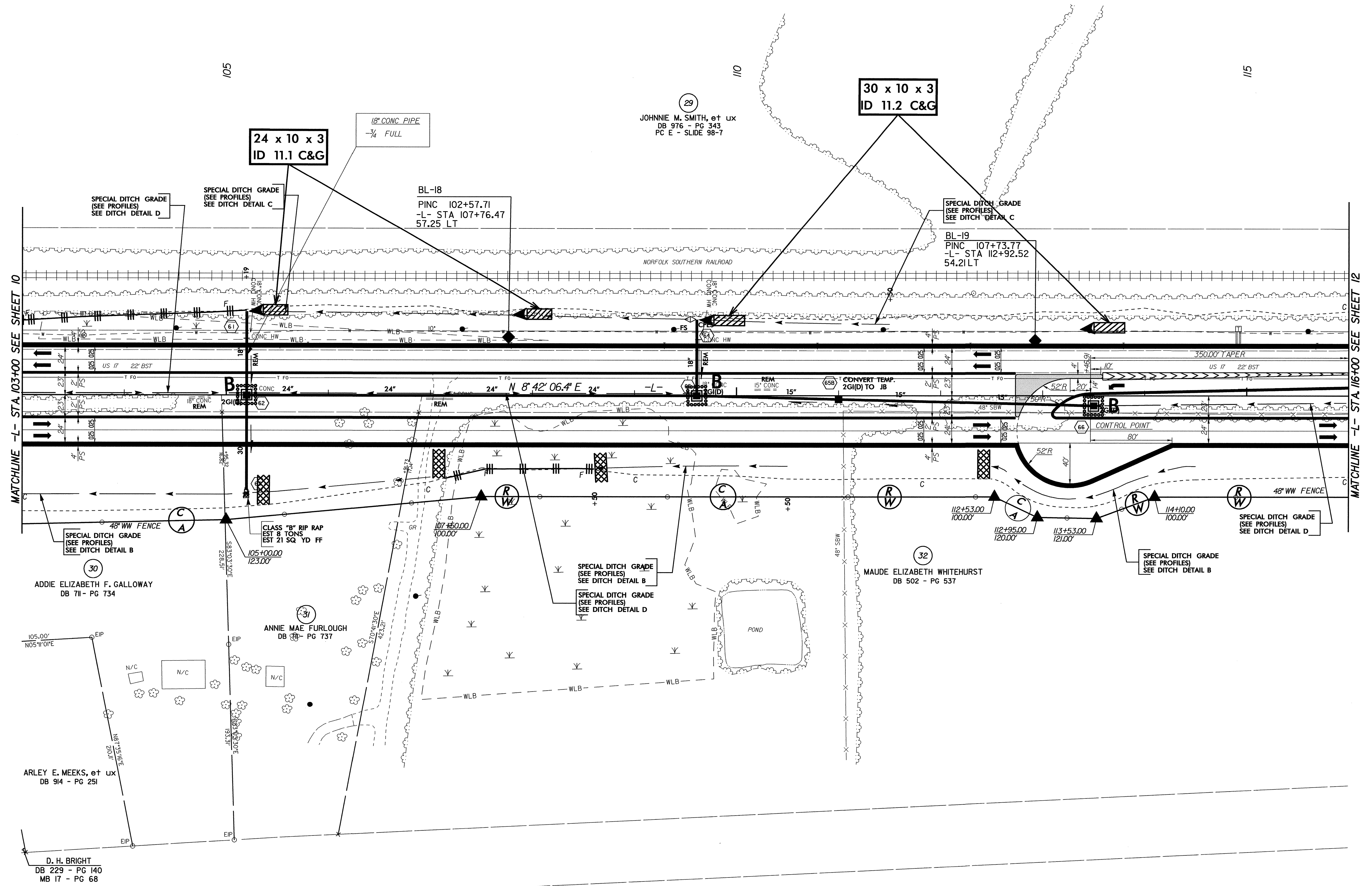
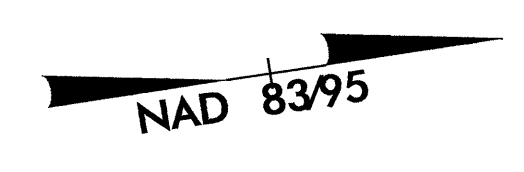
ARLEY L. MEERS, et ux  
DB 914 - PG 251

MATCHLINE -L- OFFSET 440.00 SEE SHEET THIS SHEET



MATCHLINE -L- OFFSET 440.00 SEE SHEET THIS SHEET

PROJECT REFERENCE NO. R-2510A	SHEET NO. EC-33/CONST.II
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER



MATCHLINE -L- STA 103+00 SEE SHEET 10

MATCHLINE -L- STA 116+00 SEE SHEET 12

ADIE ELIZABETH F. GALLOWAY  
DB 711 - PG 734

ARLEY E. MEEKS, et ux  
DB 914 - PG 251

D. H. BRIGHT  
DB 229 - PG 140  
MB 17 - PG 68

ANNIE MAE FURLOUGH  
DB 711 - PG 737

MAUDE ELIZABETH WHITEHURST  
DB 502 - PG 537

JOHNNIE M. SMITH, et ux  
DB 976 - PG 343  
PC E - SLIDE 98-7

BL-18  
PINC 102+57.71  
-L- STA 107+76.47  
57.25 LT

BL-19  
PINC 107+73.77  
-L- STA 112+92.52  
54.21 LT

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL D

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL C

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL C

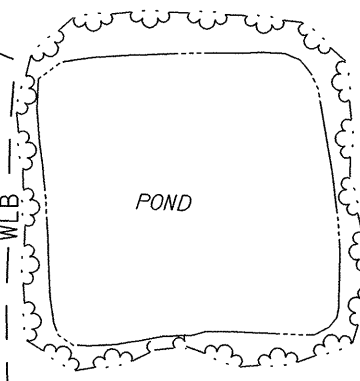
SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL D

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL D



NORFOLK SOUTHERN RAILROAD

CONVERT TEMP. 2G(D) TO JB

350.00' TAPER

CONTROL POINT

POND

105.00' N05°11'01"E

105+00.00 123.00'

CLASS "B" RIP RAP  
EST 8 TONS  
EST 21 SQ YD FF

107+50.00 100.00'

112+53.00 100.00'

112+95.00 120.00'

113+53.00 121.00'

114+10.00 100.00'

N 8°42'06.4" E 24'

-L-

24'

24'

24'

24'

24'

24'

24'

24'

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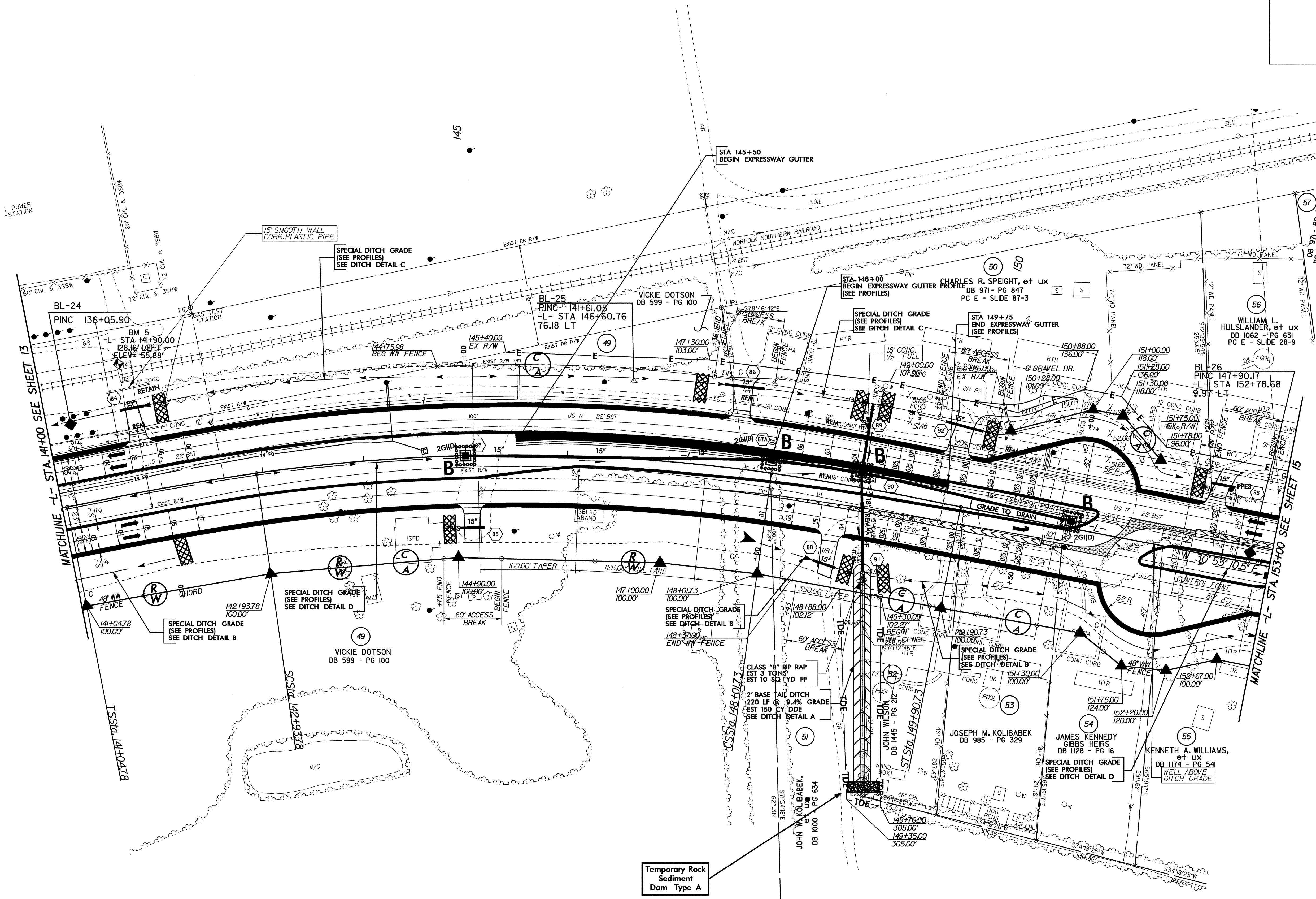






PROJECT REFERENCE NO. R-2510A	SHEET NO. EC-36/CONST.14
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER

NAD 83/95

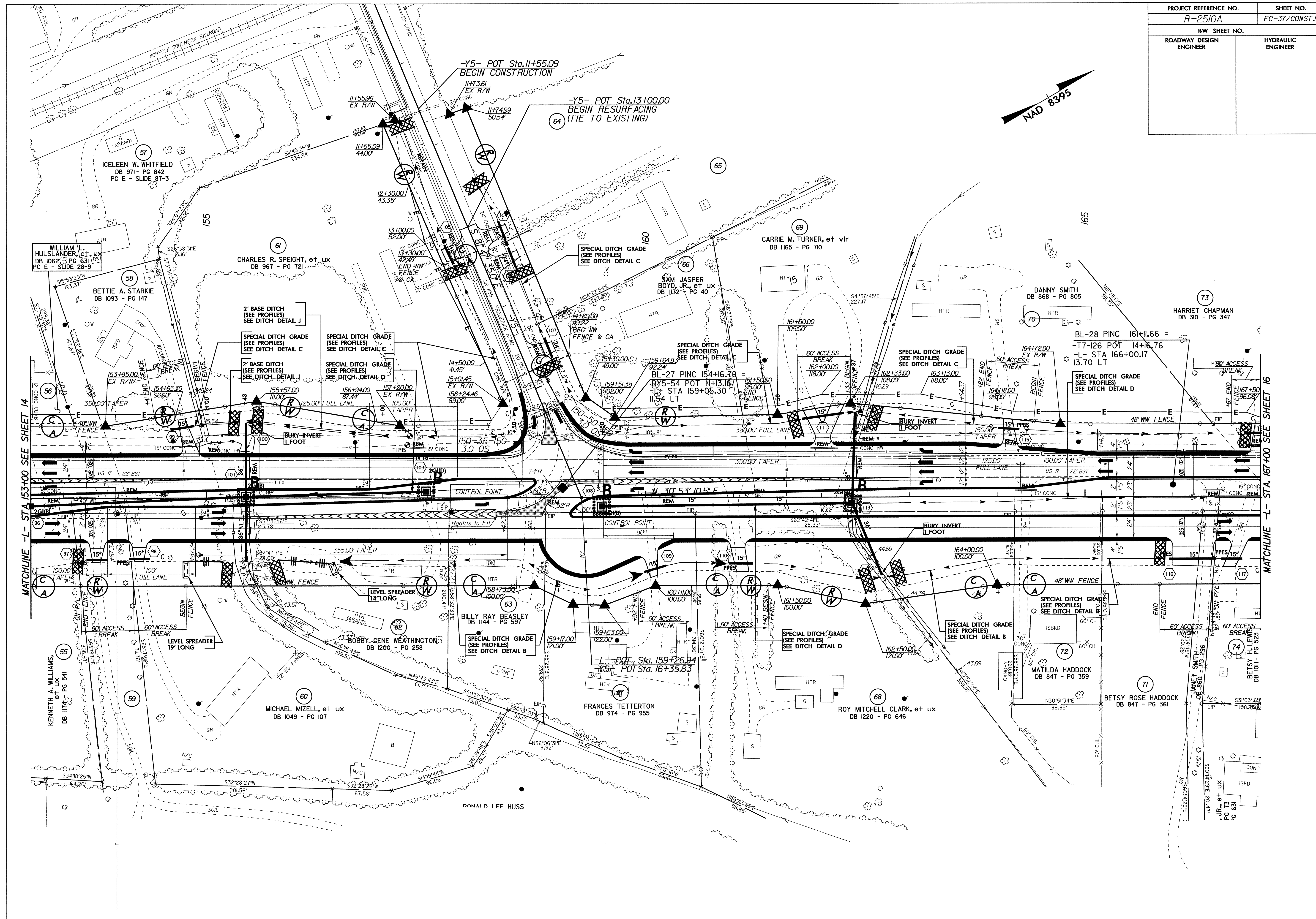


Temporary Rock Sediment Dam Type A

51  
JOHN W. KOLIBABEK, et ux  
DB 1000 - PG 634



PROJECT REFERENCE NO.	SHEET NO.
R-2510A	EC-37/CONST.15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER



MATCHLINE -L- STA 153+00 SEE SHEET 14

MATCHLINE -L- STA 167+00 SEE SHEET 16

-Y5- POT Sta. 11+55.09  
BEGIN CONSTRUCTION

-Y5- POT Sta. 13+00.00  
BEGIN RESURFACING  
(TIE TO EXISTING)

NAD 83'95'

ICELEEN W. WHITFIELD  
DB 971 - PG 842  
PC E - SLIDE 87-3

CHARLES R. SPEIGHT, et ux  
DB 967 - PG 721

WILLIAM L. HULSLANDER, et ux  
DB 1062 - PG 831  
PC E - SLIDE 28-9

BETTY A. STARKIE  
DB 1093 - PG 147

CARRIE M. TURNER, et vir  
DB 1165 - PG 710

SAM JASPER  
BOYD, JR., et ux  
DB 1172 - PG 40

DANNY SMITH  
DB 868 - PG 805

HARRIET CHAPMAN  
DB 310 - PG 347

BL-28 PINC 161+11.66 =  
-T7-126 POT 14+16.76  
-L- STA 166+00.17  
13.70 LT

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL D

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL C

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL C

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL C

2' BASE DITCH  
(SEE PROFILES)  
SEE DITCH DETAIL J

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL D

14+50.00  
41.45'  
EX R/W

15+01.45  
EX R/W

158+24.46  
89.00'  
EX R/W

BL-27 PINC 154+16.79 =  
BY5-54 POT 11+13.18  
STA 159+05.30  
11.54 LT

60' ACCESS  
BREAK  
152+100.00  
118.00'

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL C

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL C

153+85.00  
EX R/W

154+65.30  
96.60'  
EX R/W

KENNETH A. WILLIAMS,  
et ux  
DB 1174 - PG 541

MICHAEL MIZELL, et ux  
DB 1049 - PG 107

BILLY RAY BEASLEY  
DB 1144 - PG 597

BOBBY GENE WEATHINGTON  
DB 1200 - PG 258

FRANCES TETTERTON  
DB 974 - PG 955

ROY MITCHELL CLARK, et ux  
DB 1220 - PG 646

MATILDA HADDOCK  
DB 847 - PG 359

BETSY ROSE HADDOCK  
DB 847 - PG 361

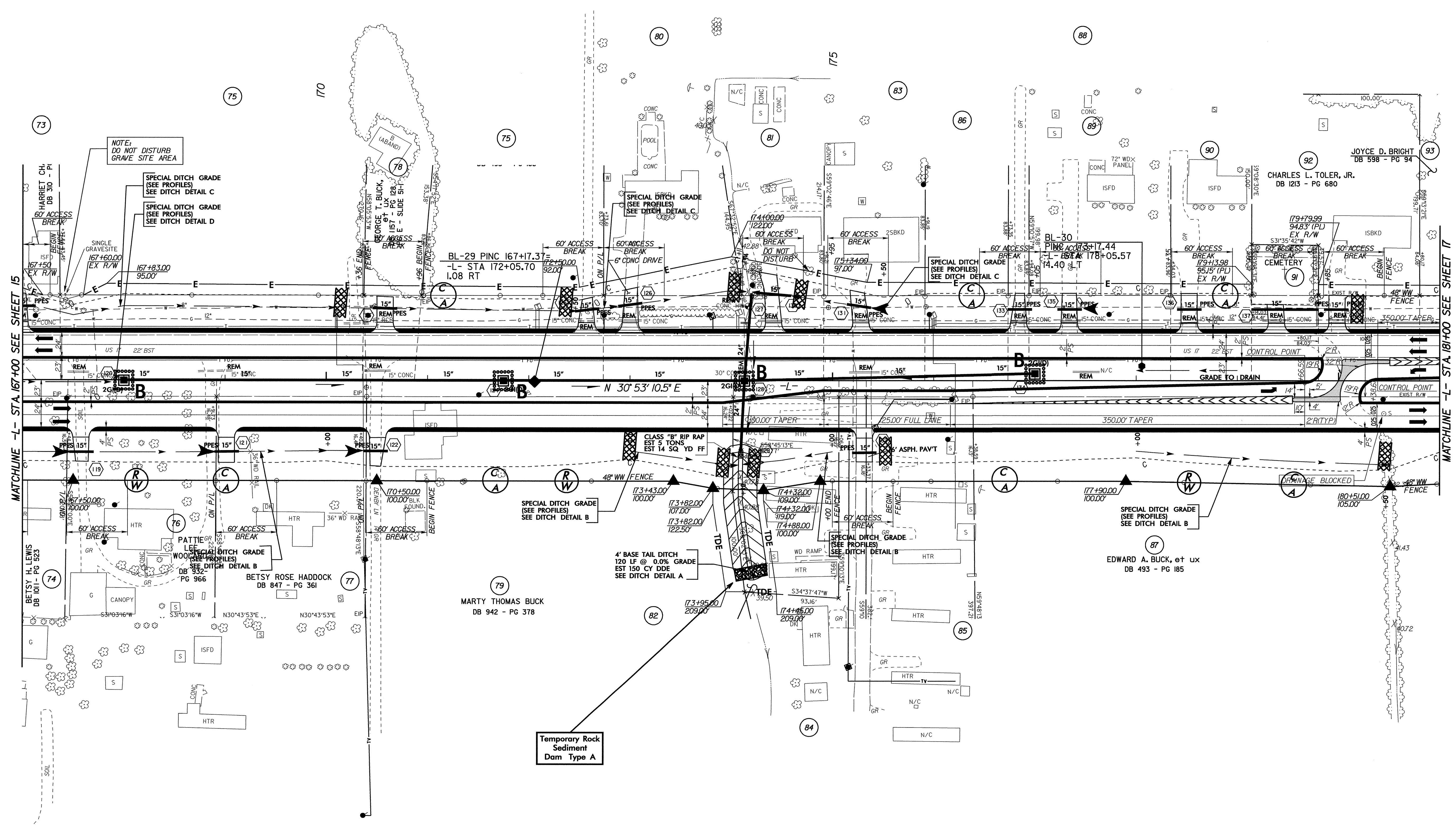
BETSY H. LEWIS  
DB 1011 - PG 523

DONALD I. F. HISS

J.R., et ux  
DB 1011 - PG 523



PROJECT REFERENCE NO.	SHEET NO.
R-2510A	EC-38/CONST.16
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER



MATCHLINE - L - STA 167+00 SEE SHEET 15

MATCHLINE - L - STA 181+00 SEE SHEET 17

NOTE:  
DO NOT DISTURB  
GRAVE SITE AREA

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL C

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL D

BL-29 PINC 167+17.37  
-L- STA 172+05.70  
L.08 RT

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

4' BASE TAIL DITCH  
120 LF @ 0.0% GRADE  
EST 150 CY DDE  
SEE DITCH DETAIL A

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

Temporary Rock  
Sediment  
Dam Type A

BETSY H. LEWIS  
DB 1011 - PG 523

BETSY ROSE HADDOCK  
DB 847 - PG 361

MARTY THOMAS BUCK  
DB 942 - PG 378

EDWARD A. BUCK, et ux  
DB 493 - PG 185

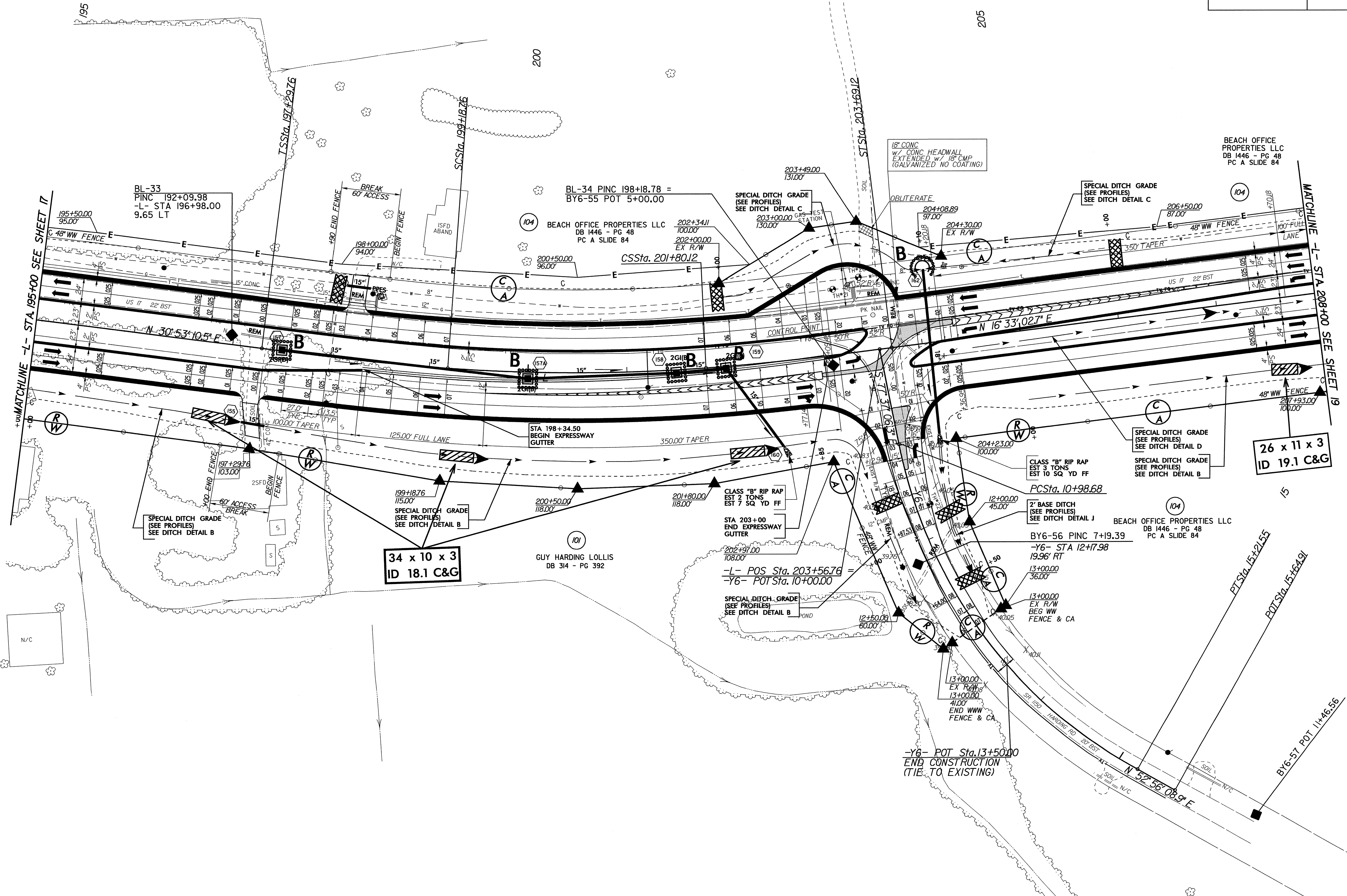
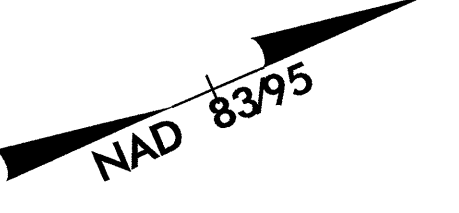
CHARLES L. TOLER, JR.  
DB 1213 - PG 680

JOYCE D. BRIGHT  
DB 598 - PG 94





PROJECT REFERENCE NO. R-2510A	SHEET NO. EC-40/CONST.18
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER



MATCHLINE -L- STA 195+00 SEE SHEET 17

MATCHLINE -L- STA 208+00 SEE SHEET 19

BL-33  
PINC 192+09.98  
-L- STA 196+98.00  
9.65 LT

BL-34 PINC 198+18.78 =  
BY6-55 POT 5+00.00

34 x 10 x 3  
ID 18.1 C&G

26 x 11 x 3  
ID 19.1 C&G

-Y6- POT Sta. 13+50.00  
EMB CONSTRUCTION  
(TIE TO EXISTING)

BEACH OFFICE PROPERTIES LLC  
DB 1446 - PG 48  
PC A SLIDE 84

BEACH OFFICE PROPERTIES LLC  
DB 1446 - PG 48  
PC A SLIDE 84

GUY HARDING LOLLIS  
DB 314 - PG 392

N/C

N/C

N/C

N/C

N/C

N/C

N/C

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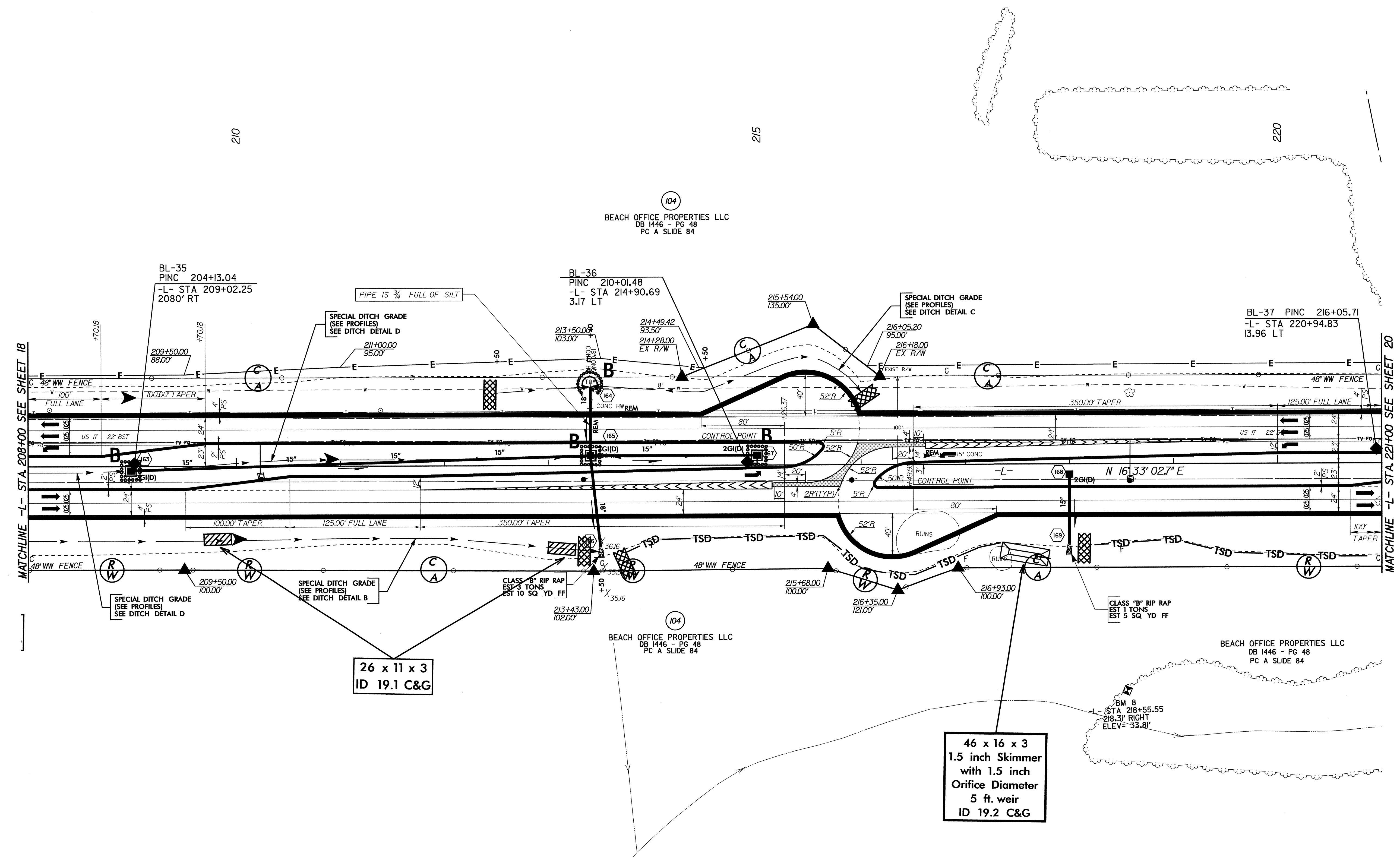
N/C

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N/C

PROJECT REFERENCE NO. R-2510A	SHEET NO. EC-41/CONST.19
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER



MATCHLINE -L- STA. 208+00 SEE SHEET 18

MATCHLINE -L- STA. 221+00 SEE SHEET 20

210

215

220

104  
BEACH OFFICE PROPERTIES LLC  
DB 1446 - PG 48  
PC A SLIDE 84

104  
BEACH OFFICE PROPERTIES LLC  
DB 1446 - PG 48  
PC A SLIDE 84

BEACH OFFICE PROPERTIES LLC  
DB 1446 - PG 48  
PC A SLIDE 84

26 x 11 x 3  
ID 19.1 C&G

46 x 16 x 3  
1.5 inch Skimmer  
with 1.5 inch  
Orifice Diameter  
5 ft. weir  
ID 19.2 C&G

BL-35  
PINC 204+13.04  
-L- STA 209+02.25  
2080' RT

BL-36  
PINC 210+01.48  
-L- STA 214+90.69  
3.17 LT

BL-37 PINC 216+05.71  
-L- STA 220+94.83  
13.96 LT

BM 8  
-L- STA 218+55.55  
218.31' RIGHT  
ELEV= 33.81'

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL D

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL C

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL D

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

CLASS "B" RIP RAP  
EST 4 TONS  
EST 10 SQ YD FF

CLASS "B" RIP RAP  
EST 1 TONS  
EST 5 SQ YD FF

PIPE IS 3/4 FULL OF SILT

213+50.00  
103.00'

215+54.00  
135.00'

216+05.20  
95.00'

209+50.00  
88.00'

214+49.42  
93.50'

214+28.00  
EX R/W

216+18.00  
EX R/W

209+50.00  
100.00'

213+43.00  
102.00'

215+68.00  
100.00'

216+35.00  
121.00'

216+93.00  
100.00'

470.18

470.18

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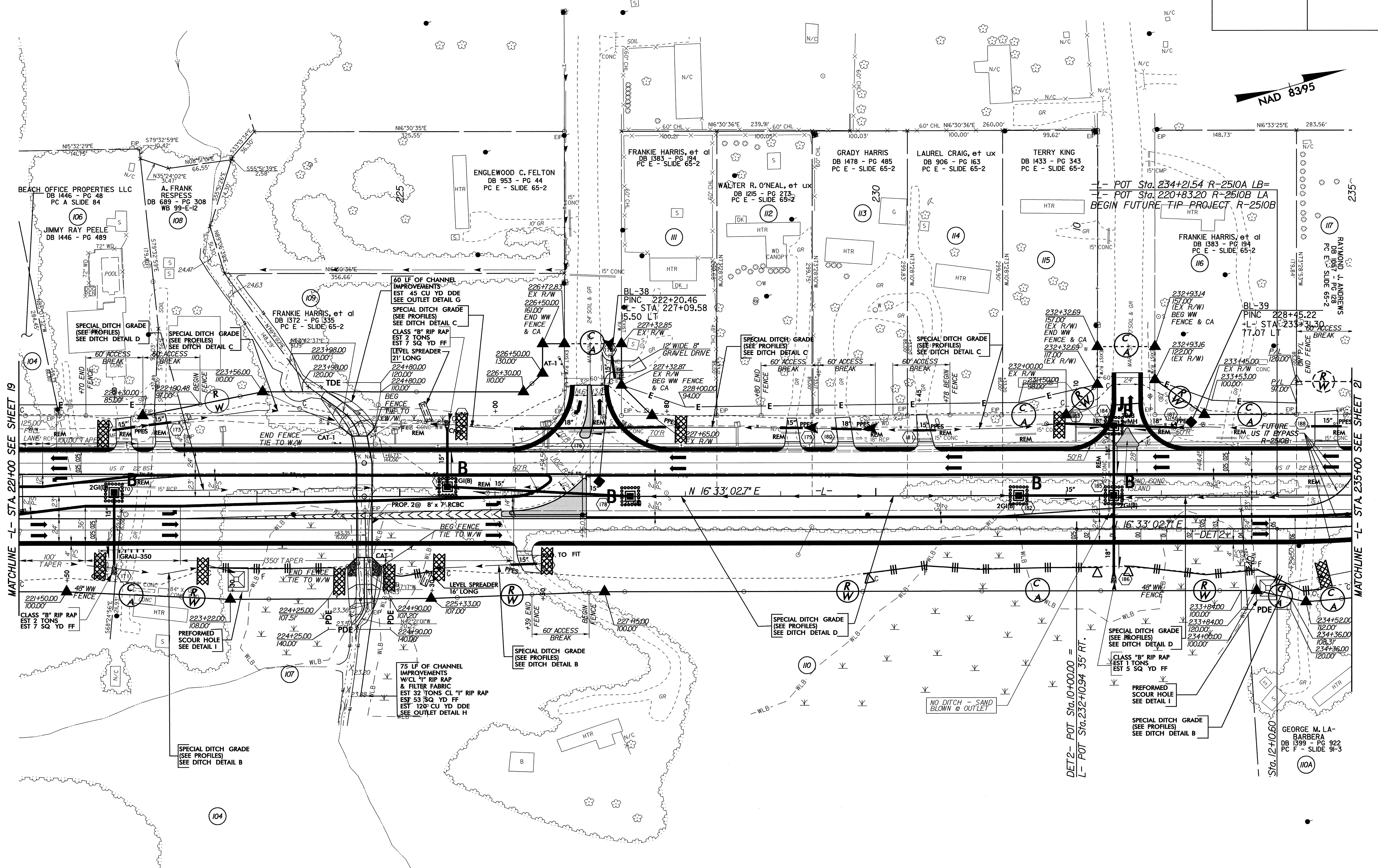
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PROJECT REFERENCE NO.	SHEET NO.
R-2510A	EC-42/CONST.20
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER



MATCHLINE -L- STA. 221+00 SEE SHEET 19

MATCHLINE -L- STA. 235+00 SEE SHEET 21

DET2 - POT Sta. 10+00.00 =  
L - POT Sta. 232+10.94 35' RT.

GEORGE M. LA-BARBERA  
DB 1399 - PG 922  
PC F - SLIDE 91-3

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

75 LF OF CHANNEL  
IMPROVEMENTS  
W/CL 1" RIP RAP  
& FILTER FABRIC  
EST 32 TONS CL 1" RIP RAP  
EST 53 SQ YD FF  
EST 120 CU YD DDE  
SEE OUTLET DETAIL H

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL D

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL D

PREFORMED  
SCOUR HOLE  
SEE DETAIL I

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL B

NO DITCH - SAND  
BLOWN @ OUTLET

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL D

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL C

60 LF OF CHANNEL  
IMPROVEMENTS  
EST 45 CU YD DDE  
SEE OUTLET DETAIL G

CLASS "B" RIP RAP  
EST 2 TONS  
EST 7 SQ YD FF  
LEVEL SPREADER  
21' LONG  
224+80.00  
224+80.00  
224+80.00  
110.00'

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL C

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL C

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL C

SPECIAL DITCH GRADE  
(SEE PROFILES)  
SEE DITCH DETAIL C

BEACH OFFICE PROPERTIES LLC  
DB 1446 - PG 48  
PC A SLIDE 84

A. FRANK  
RESPESS  
DB 689 - PG 308  
WB 99-E-12

ENGLEWOOD C. FELTON  
DB 953 - PG 44  
PC E - SLIDE 65-2

FRANKIE HARRIS, et al  
DB 1383 - PG 194  
PC E - SLIDE 65-2

GRADY HARRIS  
DB 1478 - PG 485  
PC E - SLIDE 65-2

LAUREL CRAIG, et ux  
DB 906 - PG 163  
PC E - SLIDE 65-2

TERRY KING  
DB 1433 - PG 343  
PC E - SLIDE 65-2

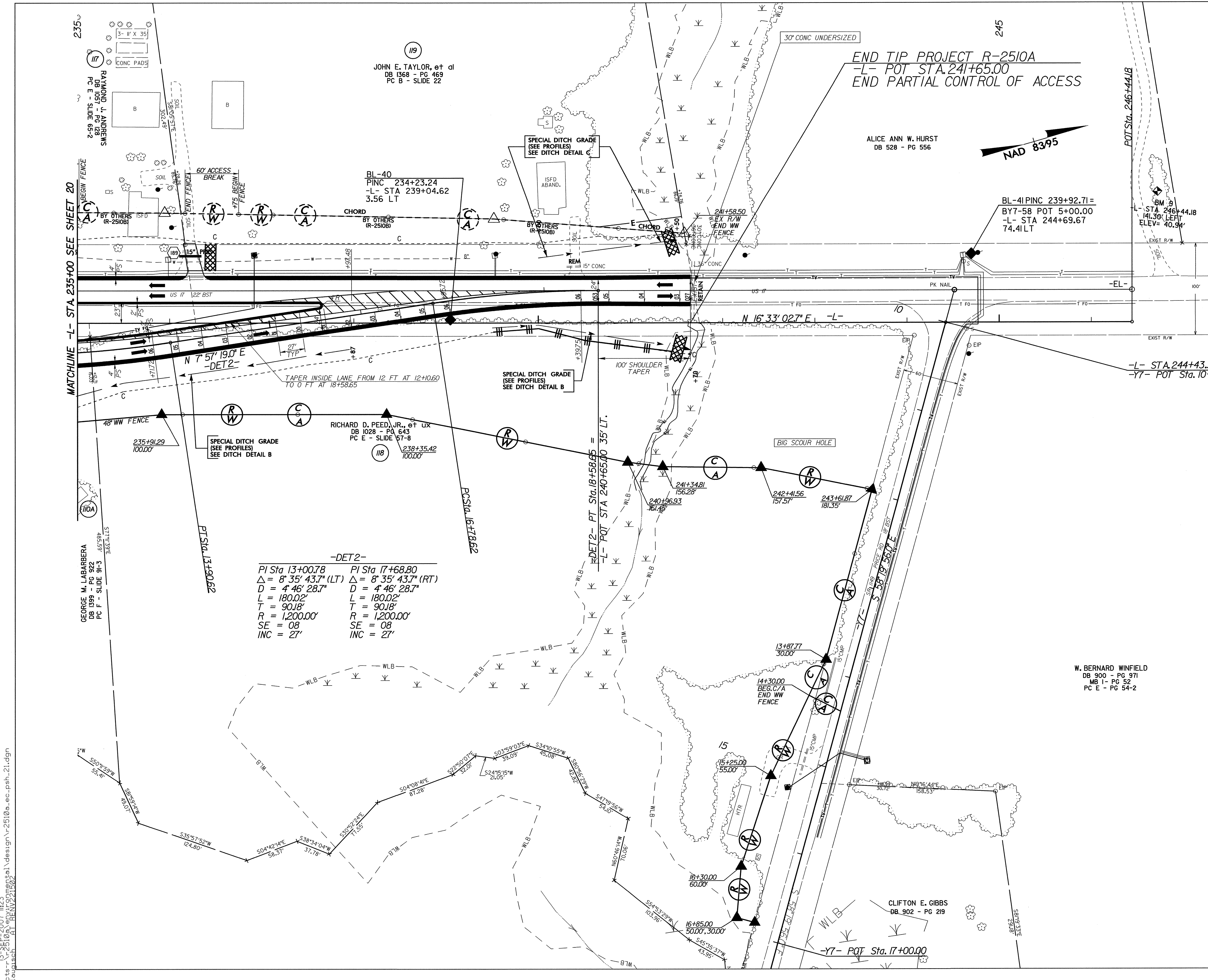
FRANKIE HARRIS, et al  
DB 1383 - PG 194  
PC E - SLIDE 65-2

RAYMOND J. ANDREWS  
DB 1084 - PG 229  
PC E - SLIDE 65-2

L - POT Sta. 234+21.54 R-2510A LB=  
L - POT Sta. 220+83.20 R-2510B LA  
BEGIN FUTURE TIP PROJECT R-2510B

NAD 8395

PROJECT REFERENCE NO.	SHEET NO.
R-2510A	EC-43/CONST.21
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER



END TIP PROJECT R-2510A  
 -L- POT STA. 241+65.00  
 END PARTIAL CONTROL OF ACCESS

NAD 83/95

MATCHLINE -L- STA. 235+00 SEE SHEET 20

-DET2-

PI Sta 13+00.78	PI Sta 17+68.80
$\Delta = 8' 35' 43.7''$ (LT)	$\Delta = 8' 35' 43.7''$ (RT)
$D = 4' 46' 28.7''$	$D = 4' 46' 28.7''$
$L = 180.02'$	$L = 180.02'$
$T = 90.18'$	$T = 90.18'$
$R = 1,200.00'$	$R = 1,200.00'$
$SE = 08$	$SE = 08$
$INC = 27'$	$INC = 27'$

GEORGE M. LABARBERA  
 DB 1399 - PG 922  
 PC F - SLIDE 91-3

RICHARD D. PEED, JR., et ux  
 DB 1028 - PG 643  
 PC E - SLIDE 57-8

JOHN E. TAYLOR, et al  
 DB 1368 - PG 469  
 PC B - SLIDE 22

W. BERNARD WINFIELD  
 DB 900 - PG 971  
 MB 1 - PG 52  
 PC E - PG 54-2

CLIFTON E. GIBBS  
 DB 902 - PG 219

13-SEP-2007 11:23  
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 mtdpach ALL 11/21/07