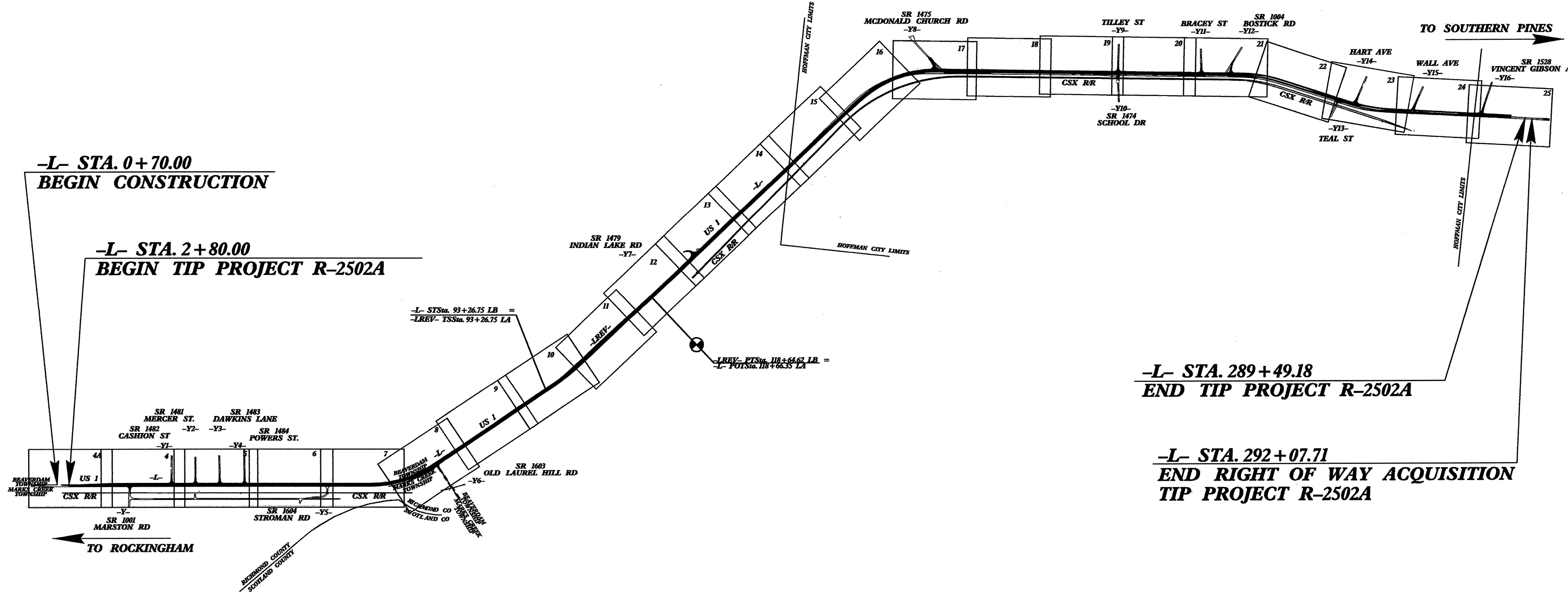
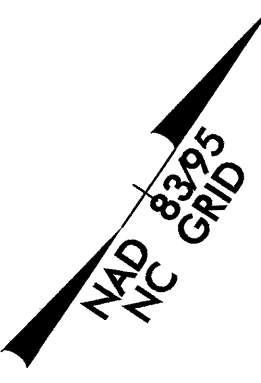


TIP PROJECT: R-2502A

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

**LOCATION: US 1 FROM SOUTH OF SR 1001 (MARSTON RD)
 TO NORTH OF SR 1528 (VINCENT GIBSON AVE)
 JUST NORTH OF HOFFMAN**
TYPE OF WORK: GRADING, PAVING & DRAINAGE



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-2502A	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Sid. #	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:	
	Type A	
1632.01	Type B	
1632.02	Type C	
1632.03	Type C	
	Skimmer Basin	
	Tiered Skimmer Basin	
	Infiltration Basin	

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

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

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

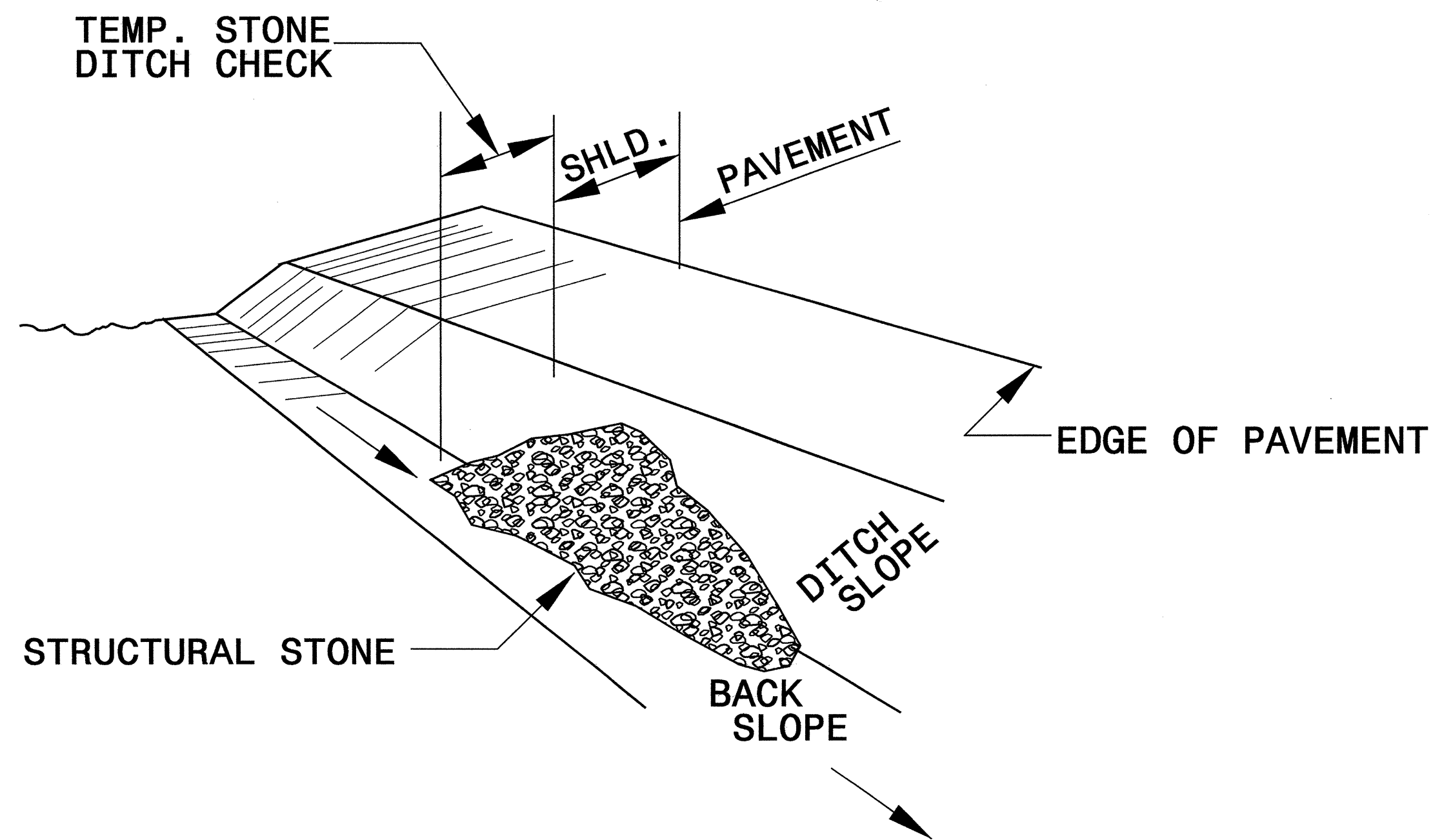
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1607.01 Gravel Construction Entrance	1632.03 Rock Inlet Sediment Trap Type C
1622.01 Temporary Berms and Slope Drains	1633.01 Temporary Rock Silt Check Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.05 Temporary Diversion	1635.02 Rock Pipe Inlet Sediment Trap Type B

01-MAR-2006 (04P)
 pr-c:\p\g\c\c-v\2502a\env\2502a.ec.tsh.dgn
 Jenni.Ferris

PROJECT REFERENCE NO. <i>R-2502A</i>	SHEET NO. <i>EC-2</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

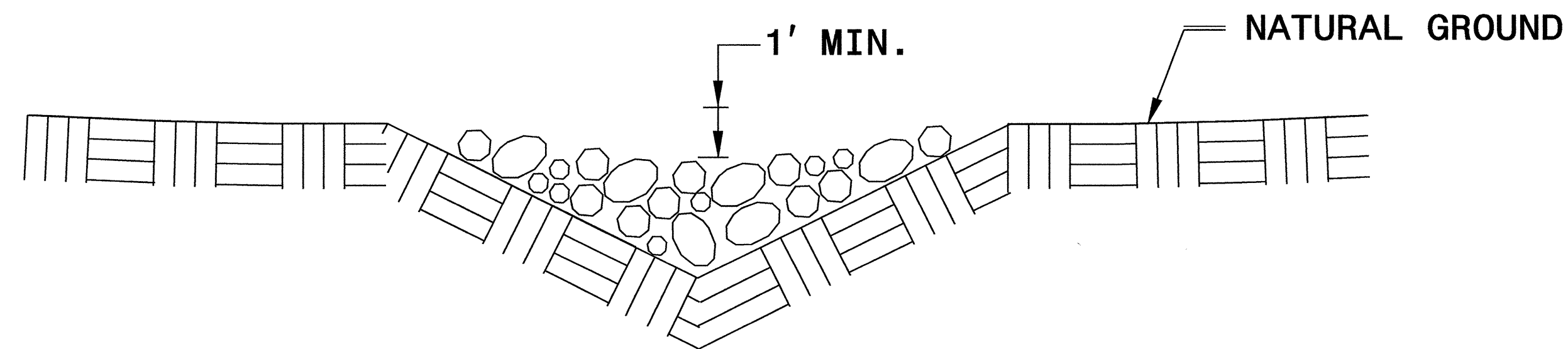


ISOMETRIC VIEW

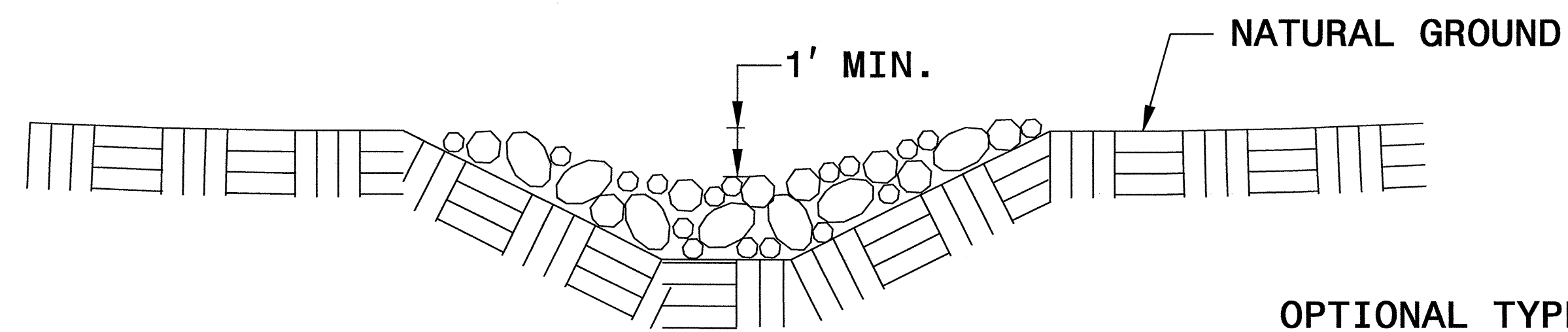
NOTES:

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

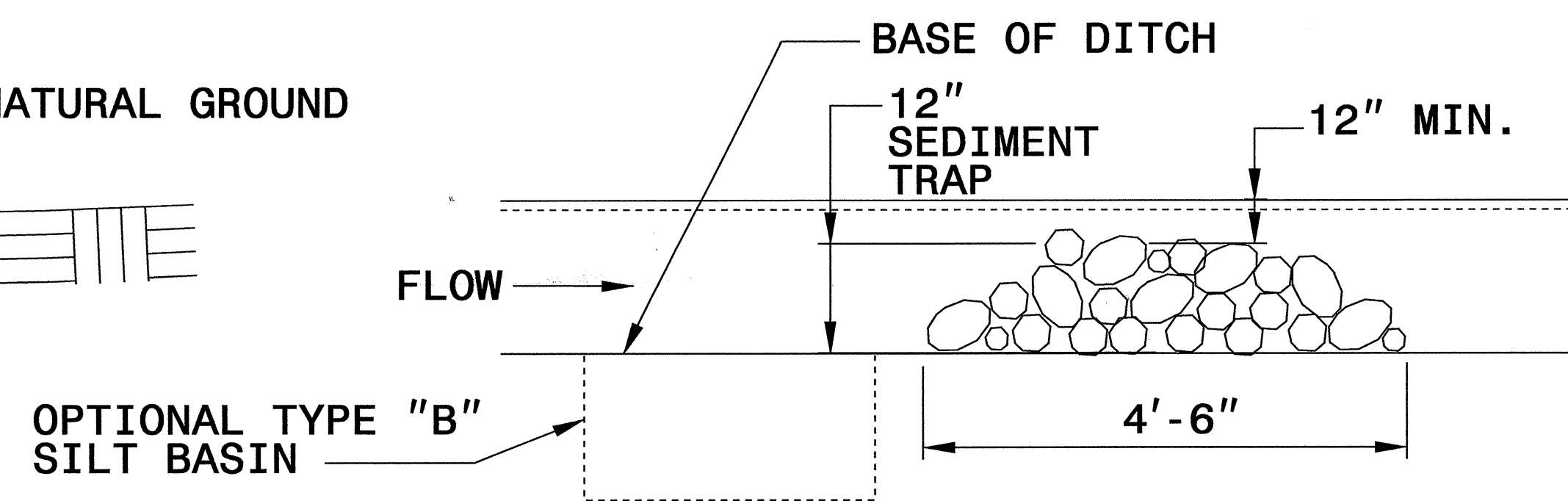
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



**CROSS SECTION
VEE DITCH**



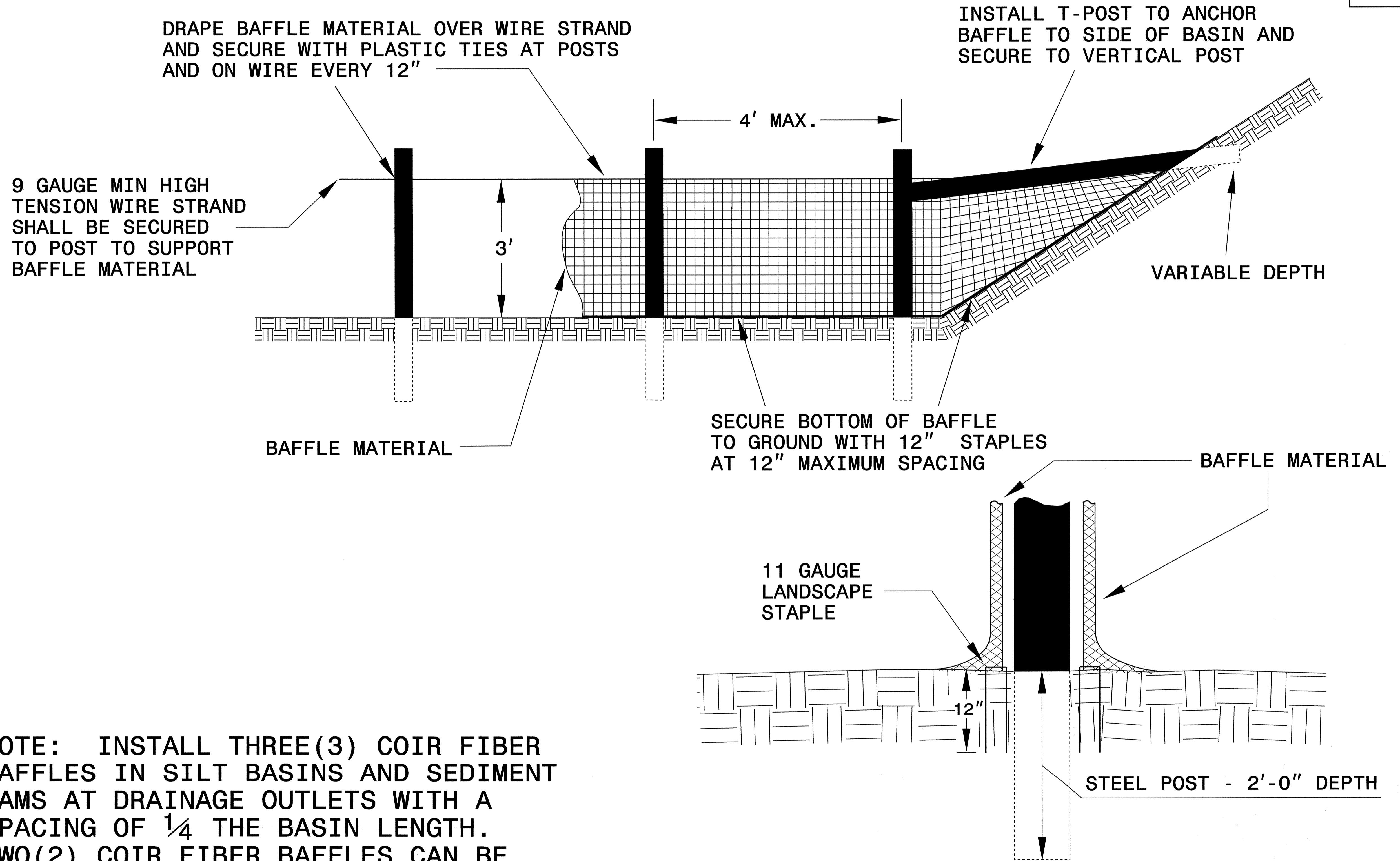
**CROSS SECTION
TRAPEZOIDAL DITCH**



ELEVATION VIEW

PROJECT REFERENCE NO. R-2502A	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL

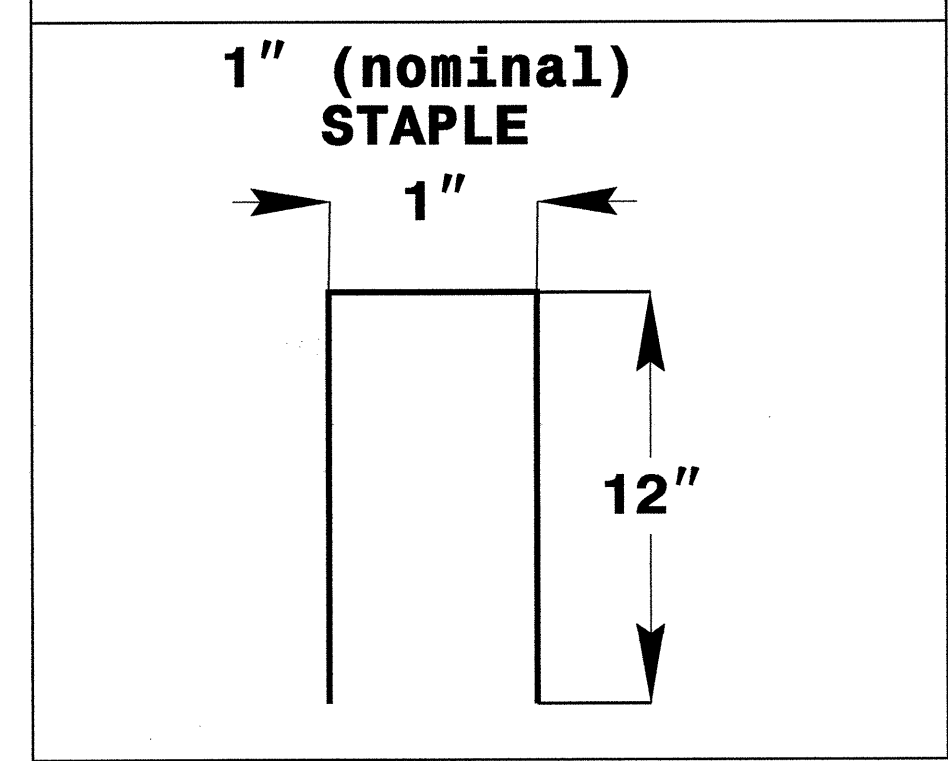
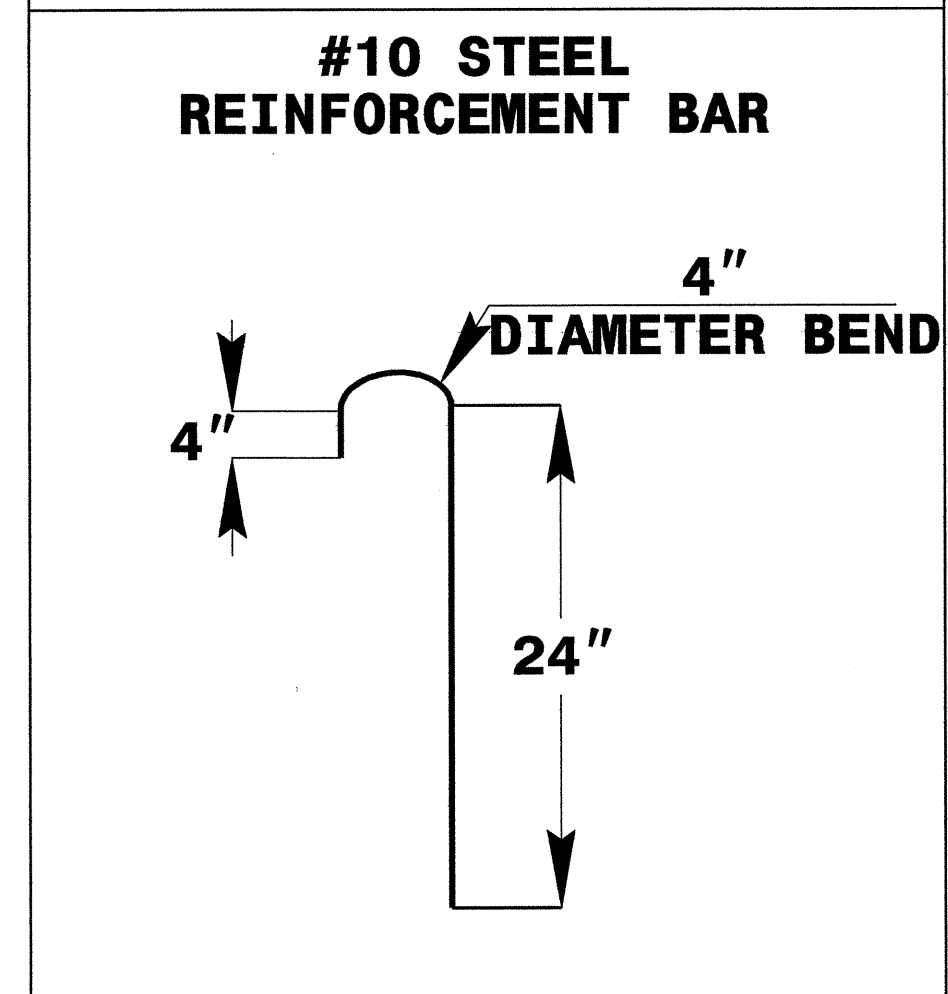
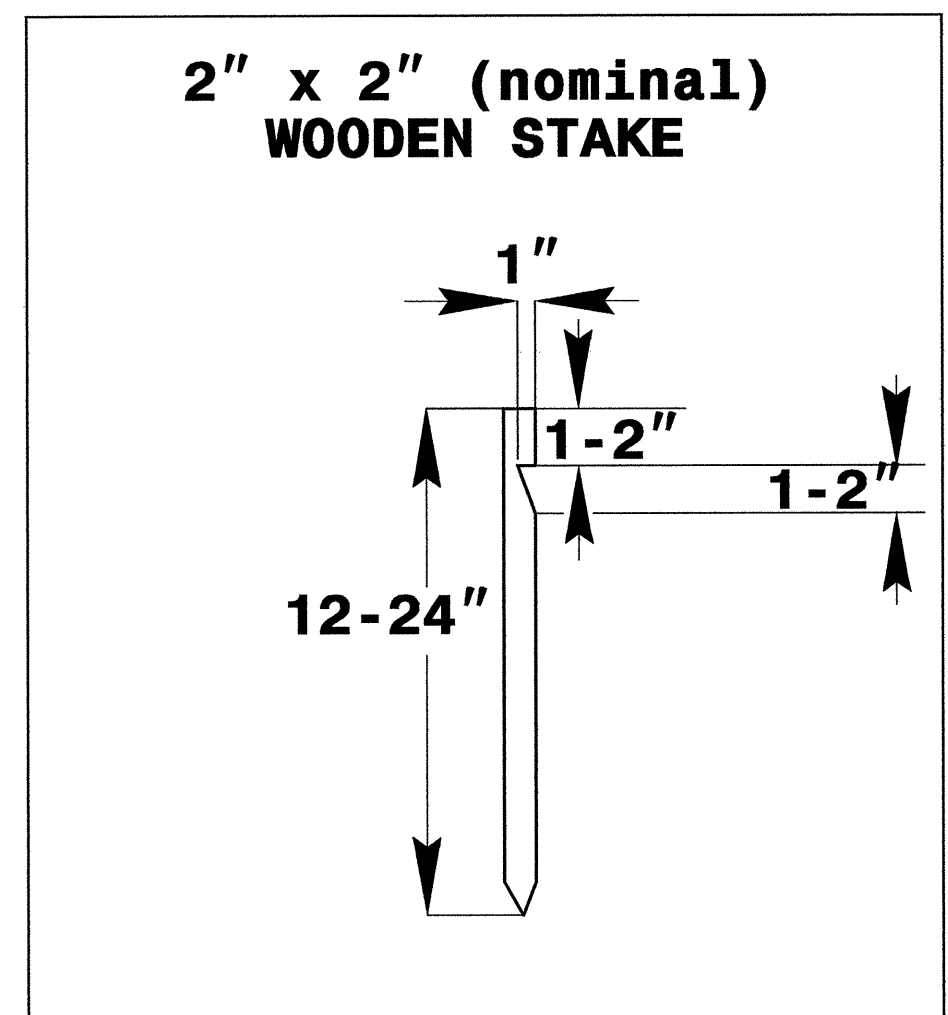
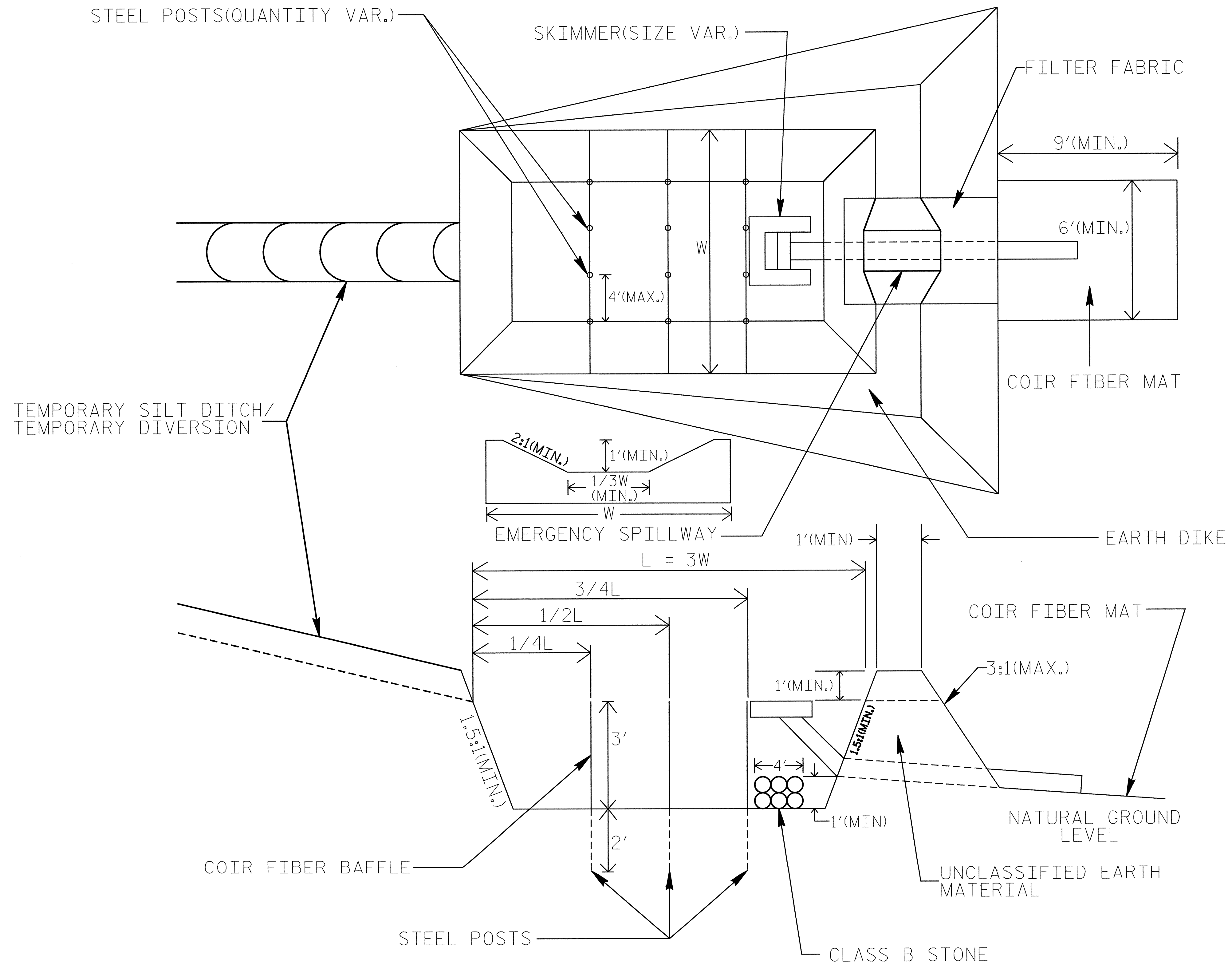


NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF $\frac{1}{4}$ THE BASIN LENGTH. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF $\frac{1}{3}$ THE BASIN LENGTH.

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-2502A	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

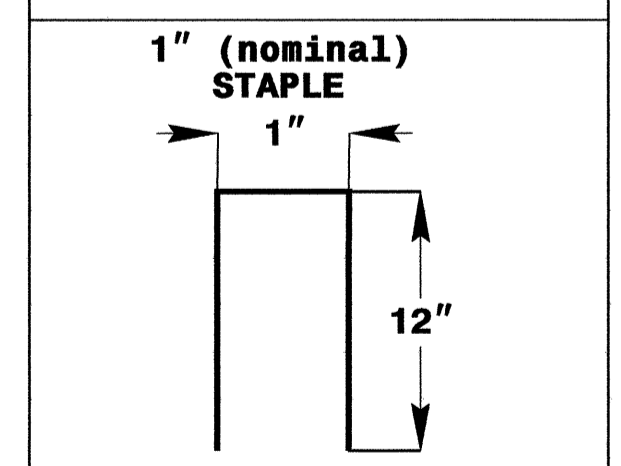
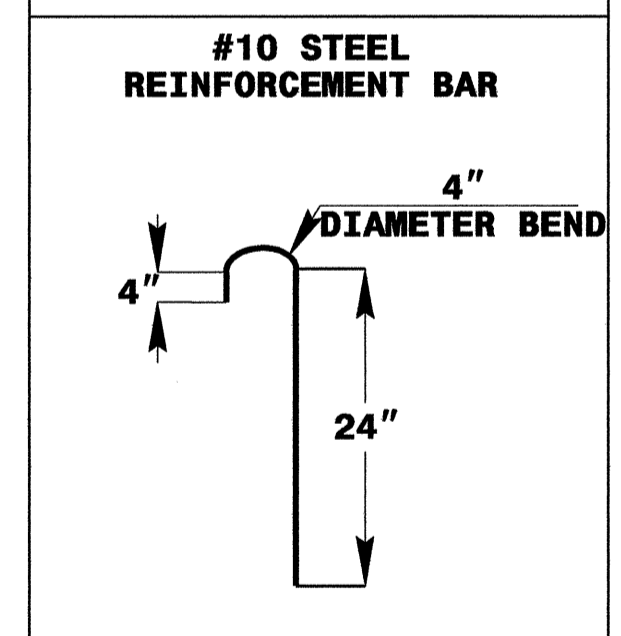
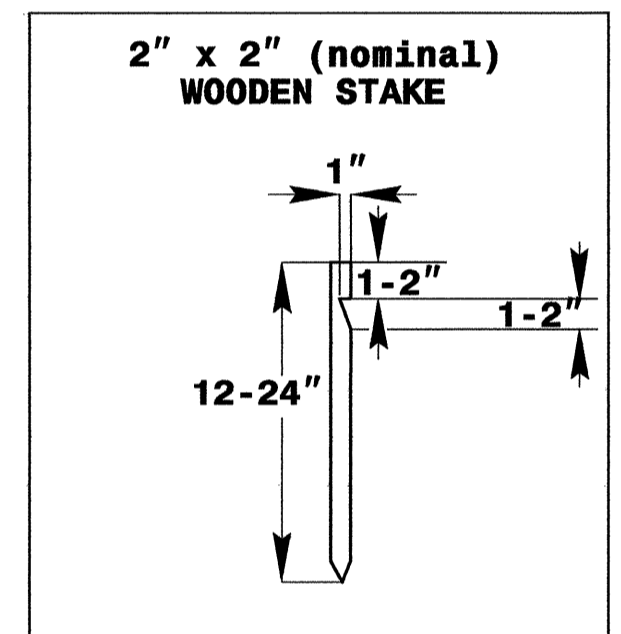
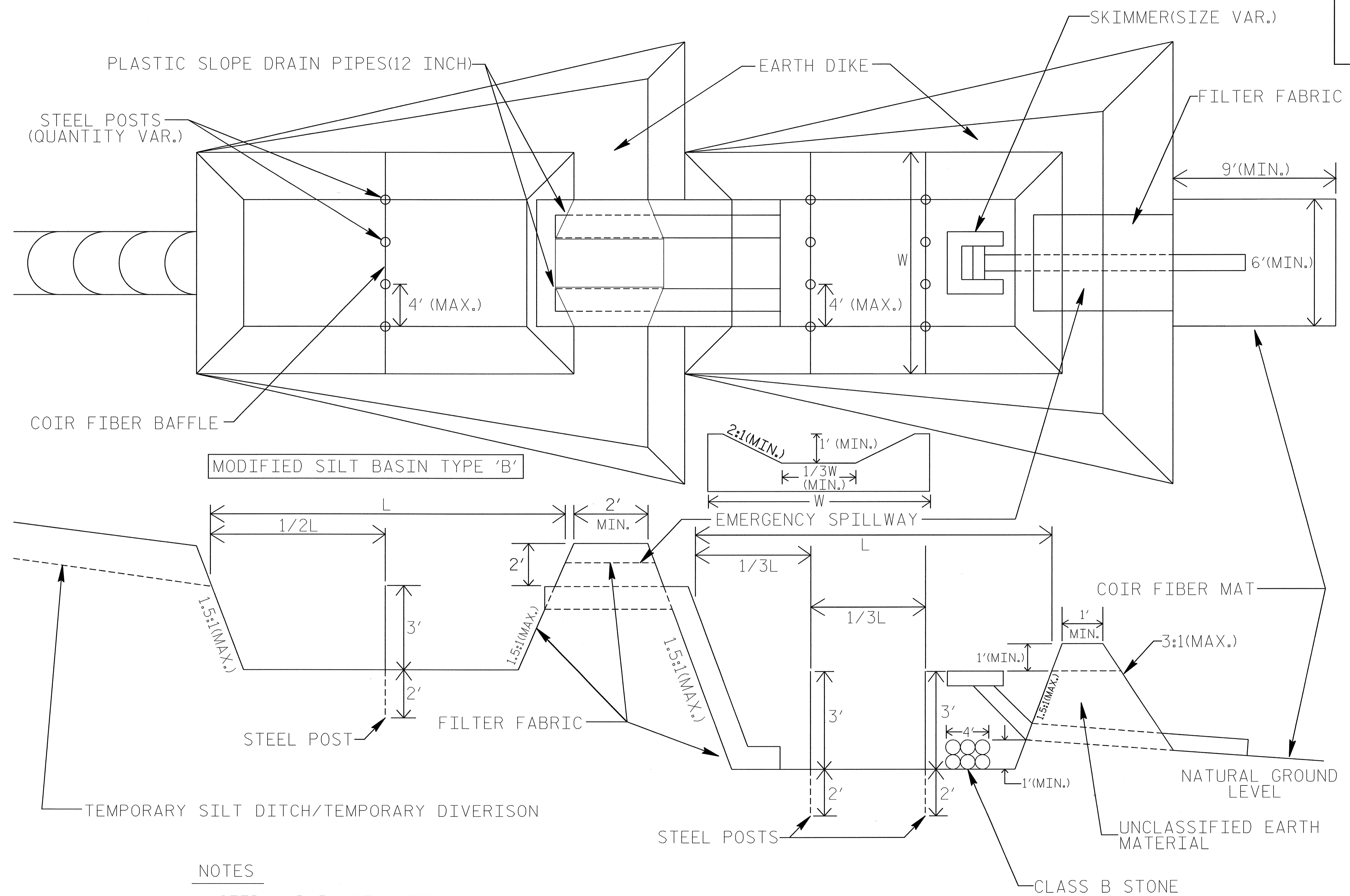


COIR FIBER MAT ANCHOR OPTIONS

- NOTES:
1. SEED AND PLACE MATTING FOR EROSION CONTROL ON SIDESLOPES.
 2. LIMIT EARTH DIKE HEIGHT TO 5 FT.

TIERED SKIMMER BASIN DETAIL

PROJECT REFERENCE NO. R-2502A	SHEET NO. EC-2C
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



COIR FIBER MAT ANCHOR OPTIONS

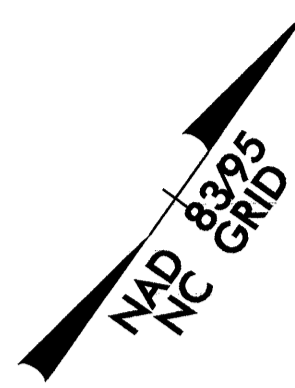
NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON SIDESLOPES OF BASINS.
2. LIMIT HEIGHT OF EARTH DIKES TO 5 FT.
3. ADDITIONAL MODIFIED SILT BASINS TYPE 'B' MAY BE NEEDED DEPENDING ON SLOPE.

PROJECT REFERENCE NO. R-2502A		SHEET NO. EC-4/CONST.4A	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4A

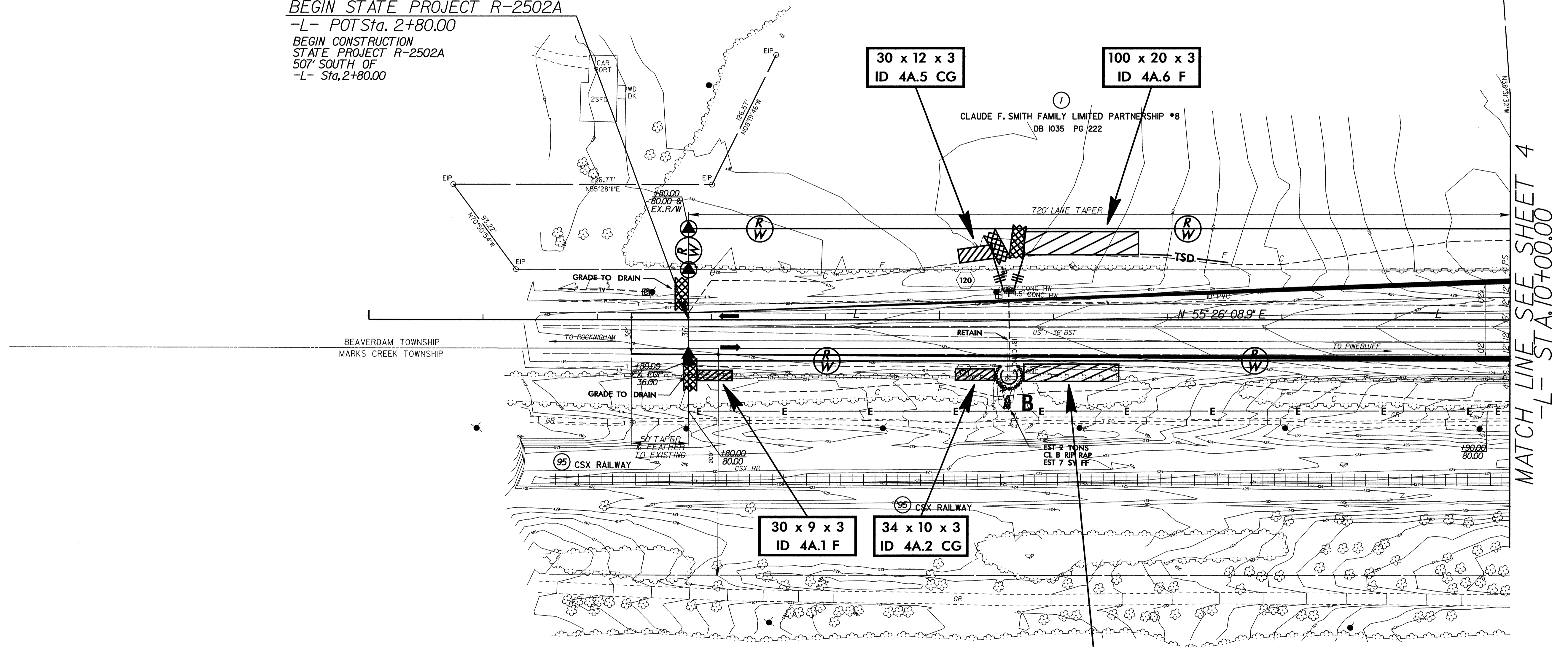
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.



BEGIN STATE PROJECT R-2502A

-L- POT Sta. 2+80.00

BEGIN CONSTRUCTION
STATE PROJECT R-2502A
507' SOUTH OF
-L- Sta. 2+80.00



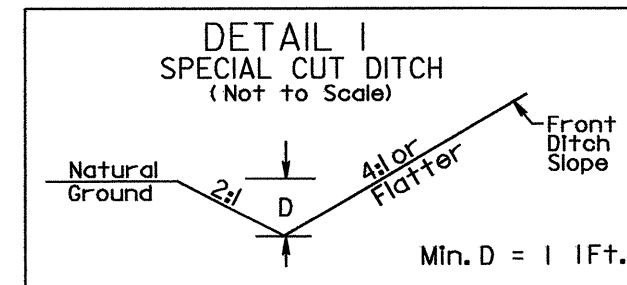
MATCH LINE SEE SHEET 4
-L- STA. 10+00.00

ALL DRIVEWAY RADII ARE 10' UNLESS
OTHERWISE NOTED
SEE SHEET 26 FOR -L- PROFILE

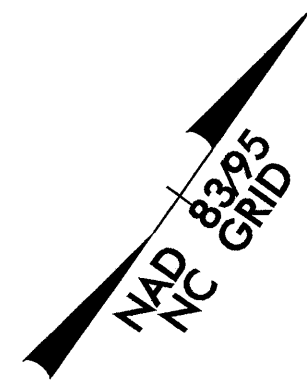
PROJECT REFERENCE NO. R-2502A	SHEET NO. EC-5/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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.

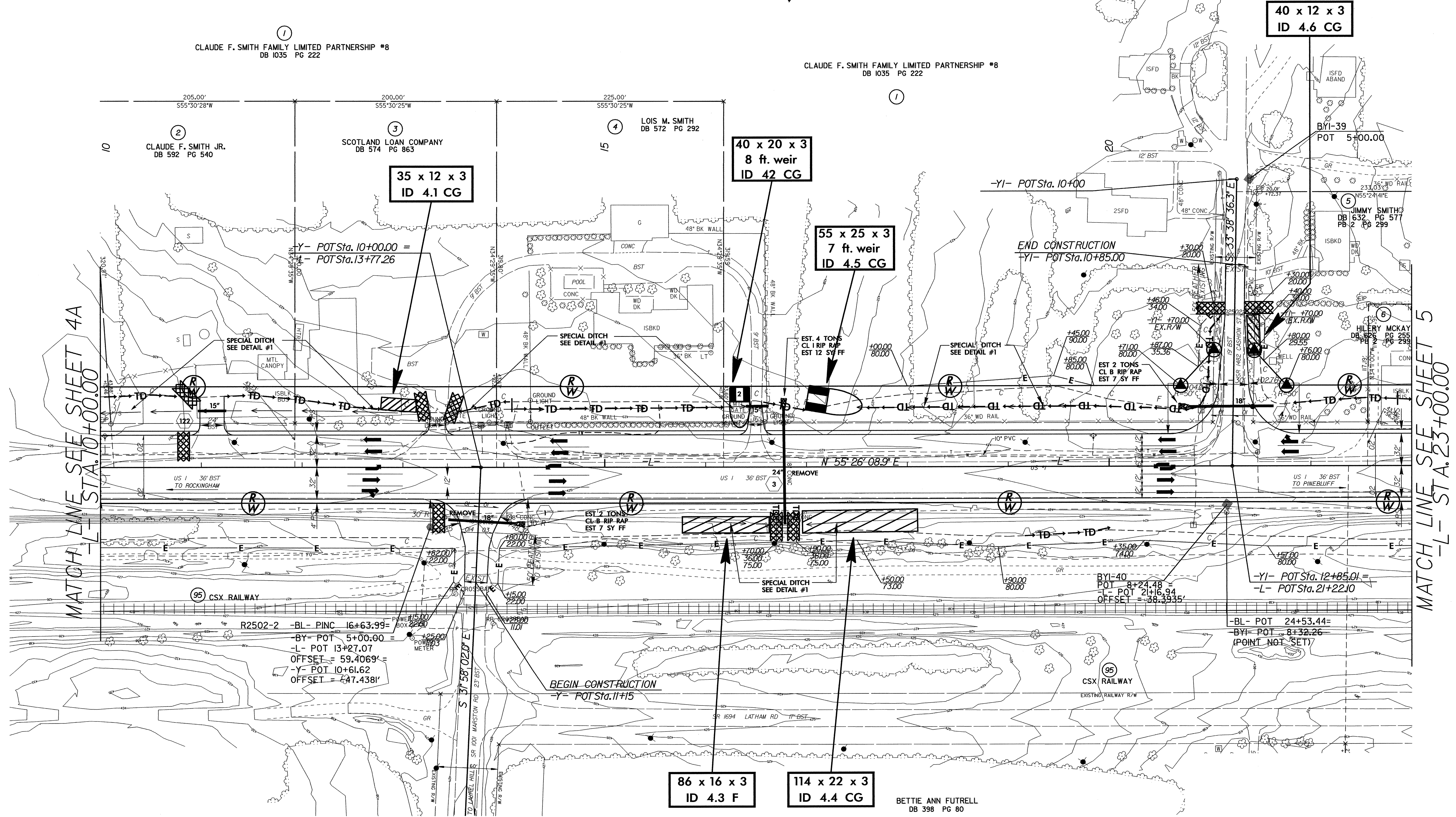


- L- Sta. 10+00 TO Sta. 13+00 LT
- L- Sta. 13+60 TO Sta. 16+75 LT
- L- Sta. 16+00 TO Sta. 17+50 RT
- L- Sta. 17+50 TO Sta. 20+00 LT



CLAUDE F. SMITH FAMILY LIMITED PARTNERSHIP #8
DB 1035 PG 222

CLAUDE F. SMITH FAMILY LIMITED PARTNERSHIP #8
DB 1035 PG 222



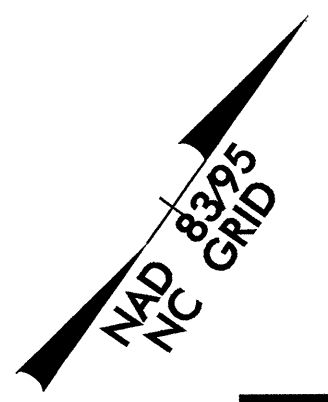
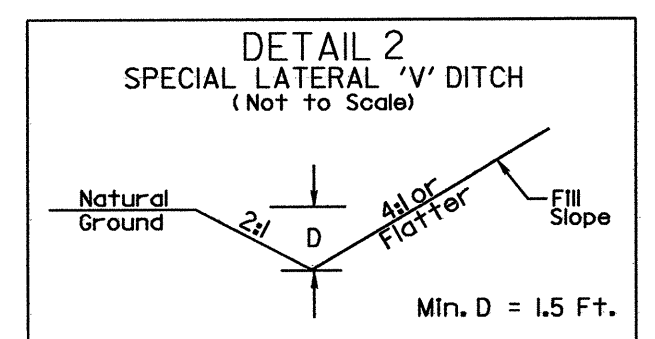
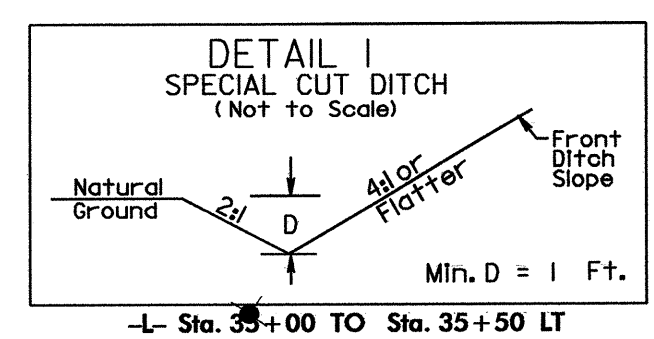
BETTIE ANN FUTRELL
DB 398 PG 80

03-MAR-2008 09:50
g:\tpp\projects\2502a\env\of\documental\design\2502a.ec_psh4.dgn
print:ecpsh4 AT RENV214546

PROJECT REFERENCE NO.	SHEET NO.
R-2502A	EC-6/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

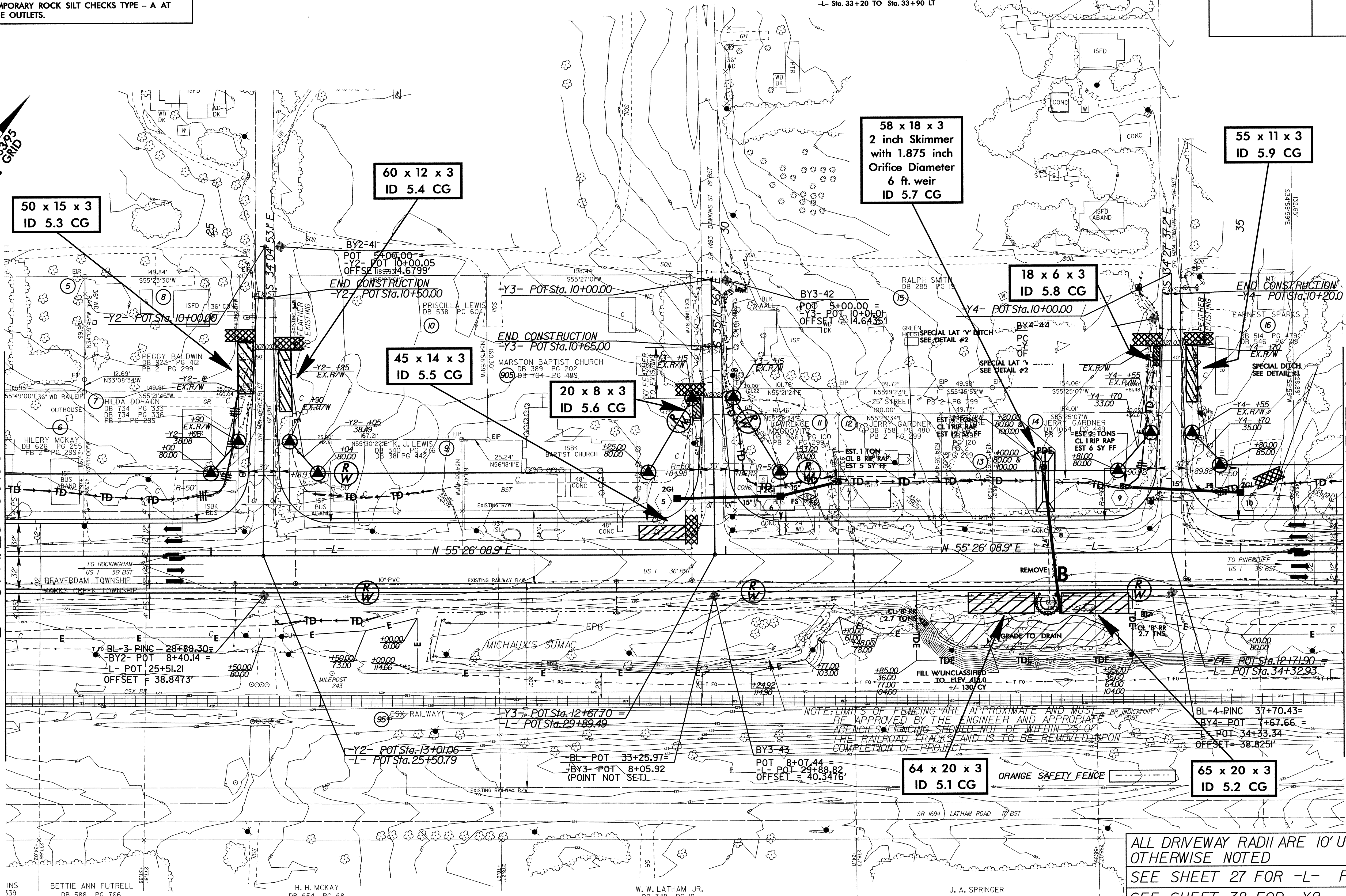
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

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



MATCH LINE SEE SHEET 4
-L- STA. 23+00.00

MATCH LINE SEE SHEET 6
-L- STA. 36+00.00



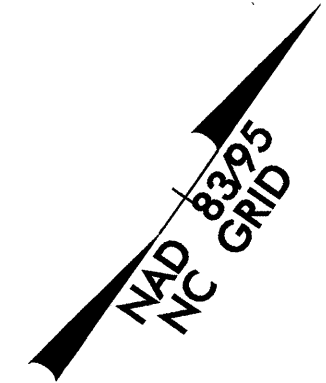
ALL DRIVEWAY RADII ARE 10' UNLESS
OTHERWISE NOTED
SEE SHEET 27 FOR -L- PROFILE
SEE SHEET 38 FOR -Y2- PROFILE
SEE SHEET 38 FOR -Y3- PROFILE
SEE SHEET 38 FOR -Y4- PROFILE

15-FEB-2008 14:2
G:\projects-r-2502a\environmental\des\gn-r-2502a.ec.psh5.dgn
TENNISON

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7

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

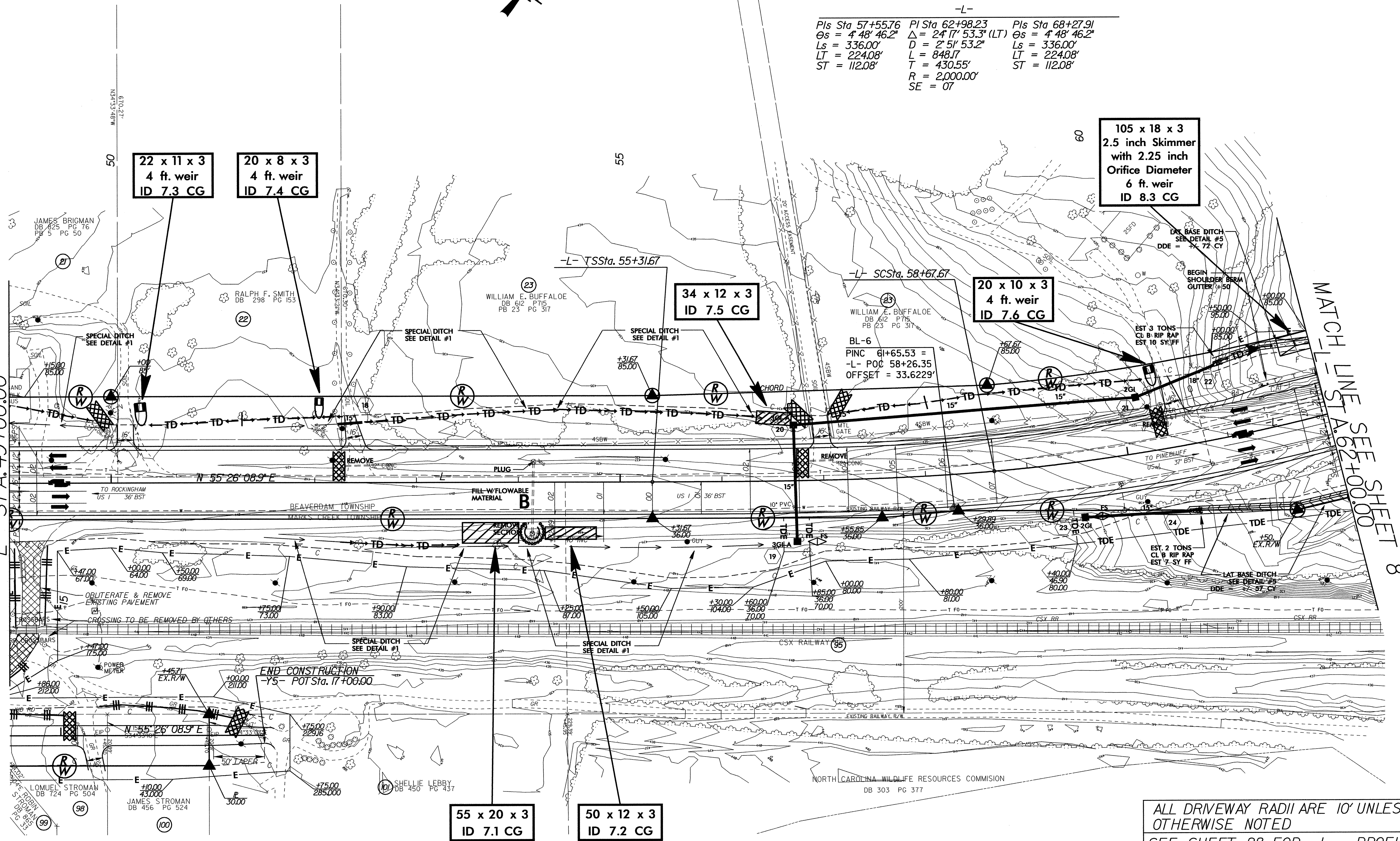
PROJECT REFERENCE NO. R-2502A	SHEET NO. EC-8/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



-L-
 Pls Sta 57+55.76 PI Sta 62+98.23 Pls Sta 68+27.91
 Os = 4' 48" 46.2" Δ = 24' 17" 53.3" (LT) Os = 4' 48" 46.2"
 Ls = 336.00' D = 2' 51" 53.2" Ls = 336.00'
 LT = 224.08' L = 848.17 LT = 224.08'
 ST = 112.08' T = 430.55' ST = 112.08'
 R = 2,000.00'
 SE = 07

MATCH LINE SEE SHEET 6
-L- STA. 49+00.00

MATCH LINE STA. 65+00.00 SEE SHEET 8



ALL DRIVEWAY RADII ARE 10' UNLESS
OTHERWISE NOTED
SEE SHEET 28 FOR -L- PROFILE
SEE SHEET 38 FOR -Y5- PROFILE

15-FEB-2008 10:26
at:\projects-r-2502a\environmental\design\2502a_ec_psh7.dgn
fennifer@ncpi.com

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 8

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

105 x 18 x 3
2.5 inch Skimmer
with 2.25 inch
Orifice Diameter
6 ft. weir
ID 8.3 CG

88 x 18 x 3
2.5 inch Skimmer
with 2.25 inch
Orifice Diameter
6 ft. weir
ID 8.4 CG

32 x 16 x 3
5 ft. weir
ID 8.5 CG

45 x 18 x 3
6 ft. weir
ID 8.6 CG

62 x 14 x 3
ID 8.9 F

25 x 13 x 3
4 ft. weir
ID 8.8 CG

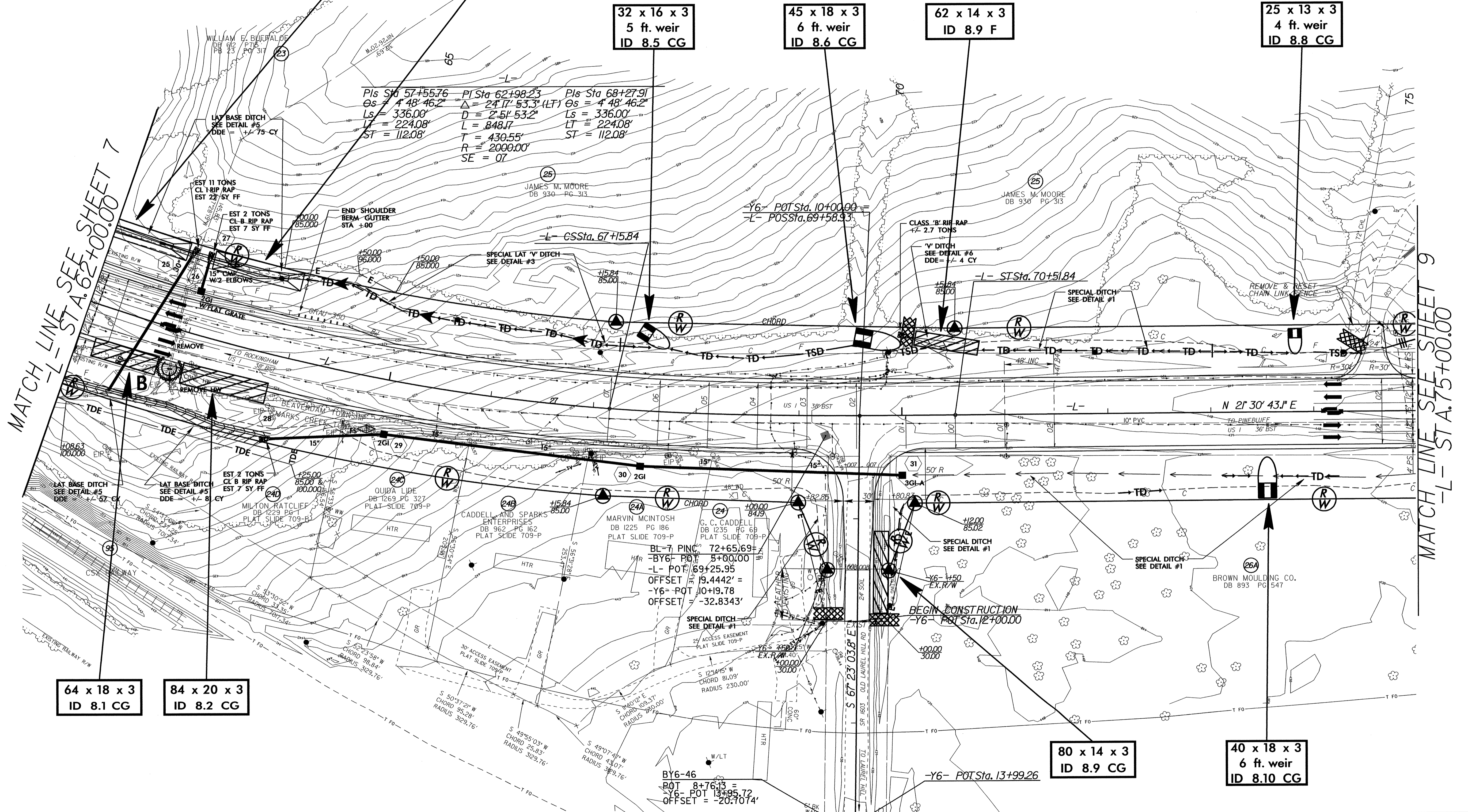
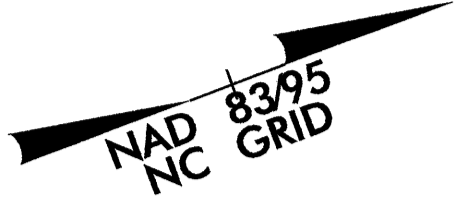
64 x 18 x 3
ID 8.1 CG

84 x 20 x 3
ID 8.2 CG

80 x 14 x 3
ID 8.9 CG

40 x 18 x 3
6 ft. weir
ID 8.10 CG

PROJECT REFERENCE NO. R-2502A	SHEET NO. EC-9/CONST.8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCH LINE -L- STA. 62+00.00

MATCH LINE -L- STA. 75+00.00

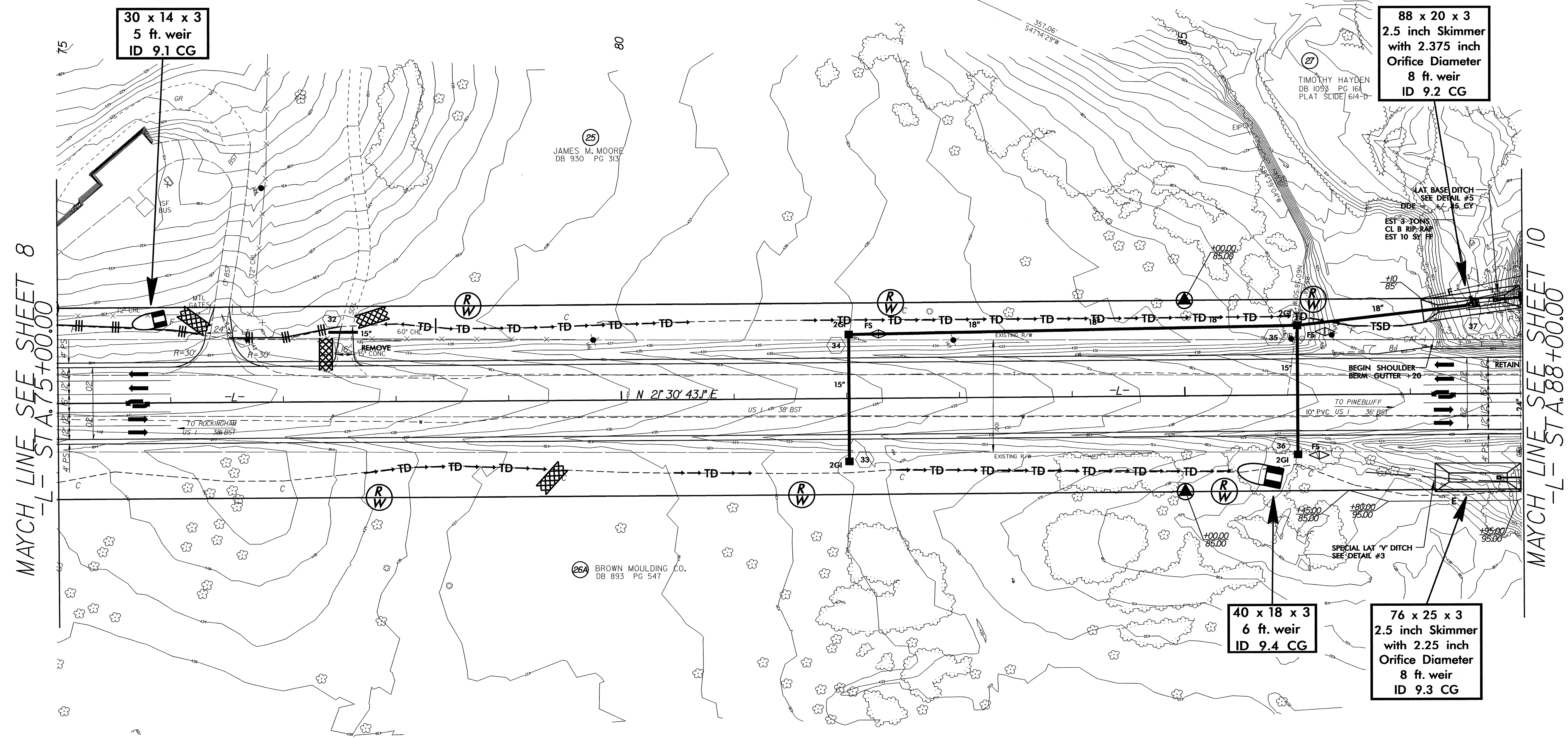
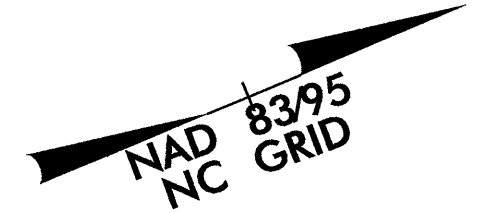
ALL DRIVEWAY RADII ARE 10' UNLESS
OTHERWISE NOTED
SEE SHEET 28 FOR -L- PROFILE
SEE SHEET 39 FOR -Y6- PROFILE

20-FEB-2008 13:27
G:\tip\projects\2502a\environmental\design\r-2502a-ec-ps8.dgn
leanniferranish

PROJECT REFERENCE NO. R-2502A	SHEET NO. EC-10/CONST.9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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.



MAYCH LINE SEE SHEET 8
-L- STA. 75+00.00

MAYCH LINE SEE SHEET 10
-L- STA. 88+00.00

20-FEB-2008 15:17
g:\projects\2502a\environmental\design\2502a-ec-psd9.dgn
fennit@psd9

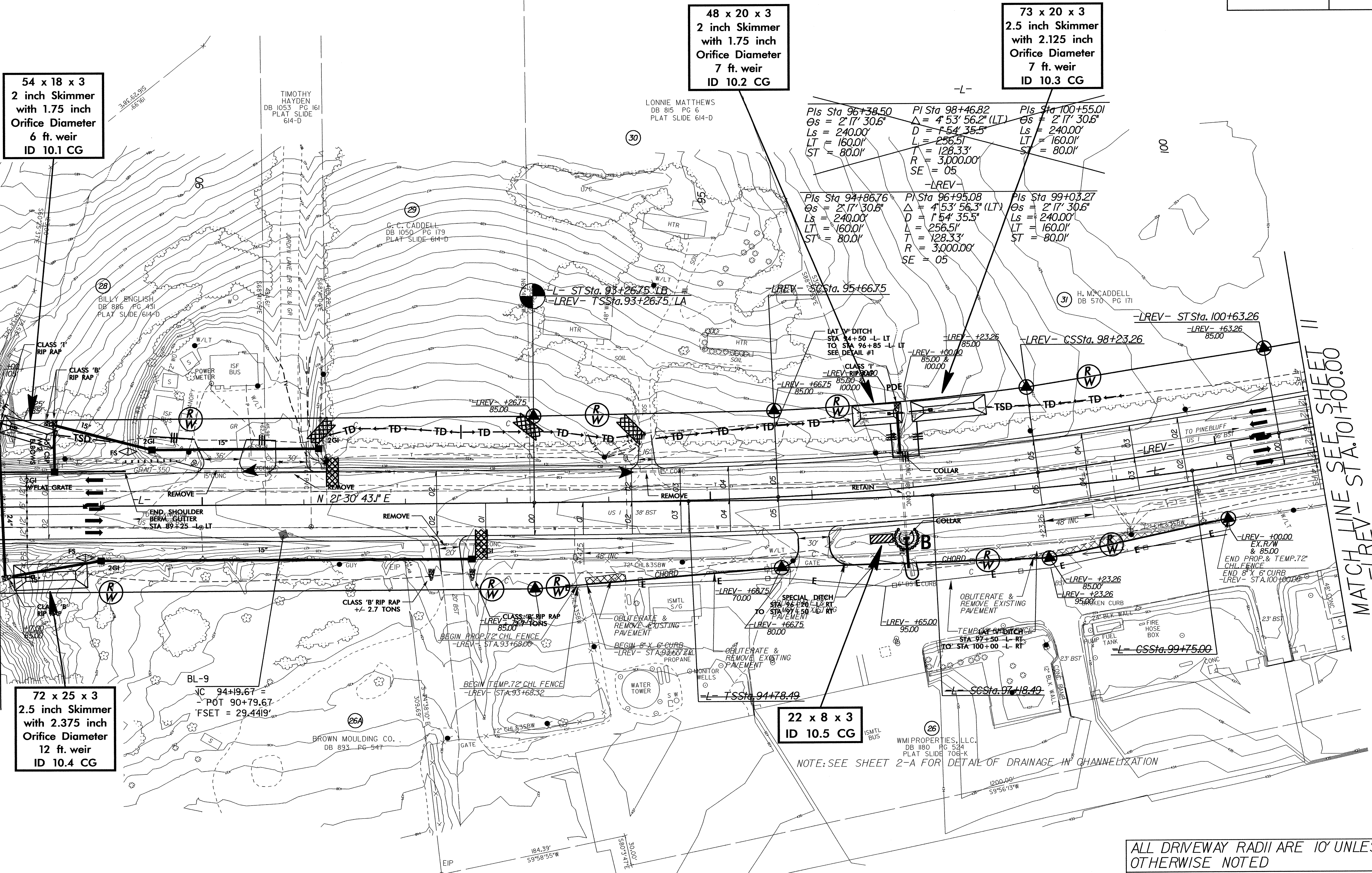
ALL DRIVEWAY RADII ARE 10' UNLESS
OTHERWISE NOTED
SEE SHEET 29 FOR -L- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
R-2502A	EC-11/CONST.10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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.

MATCH LINE SEE SHEET 9
-L- STA. 88+00.00



NOTE: SEE SHEET 2-A FOR DETAIL OF DRAINAGE IN CHANNELIZATION

MATCH LINE SEE SHEET 10
-LREV- STA. 100+00.00

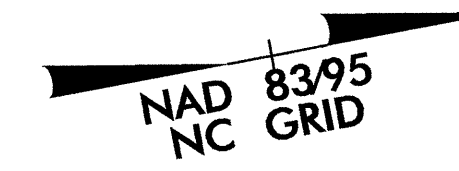
ALL DRIVEWAY RADII ARE 10' UNLESS
OTHERWISE NOTED
SEE SHEET 29 FOR -L- PROFILE
SEE SHEET 29 FOR -LREV- PROFILE

20-FEB-2008 16:53
g:\tippro\lects\2502a\envi\environmental\design\2502a_ec_psh10.dgn
lenifer.danish

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 11

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

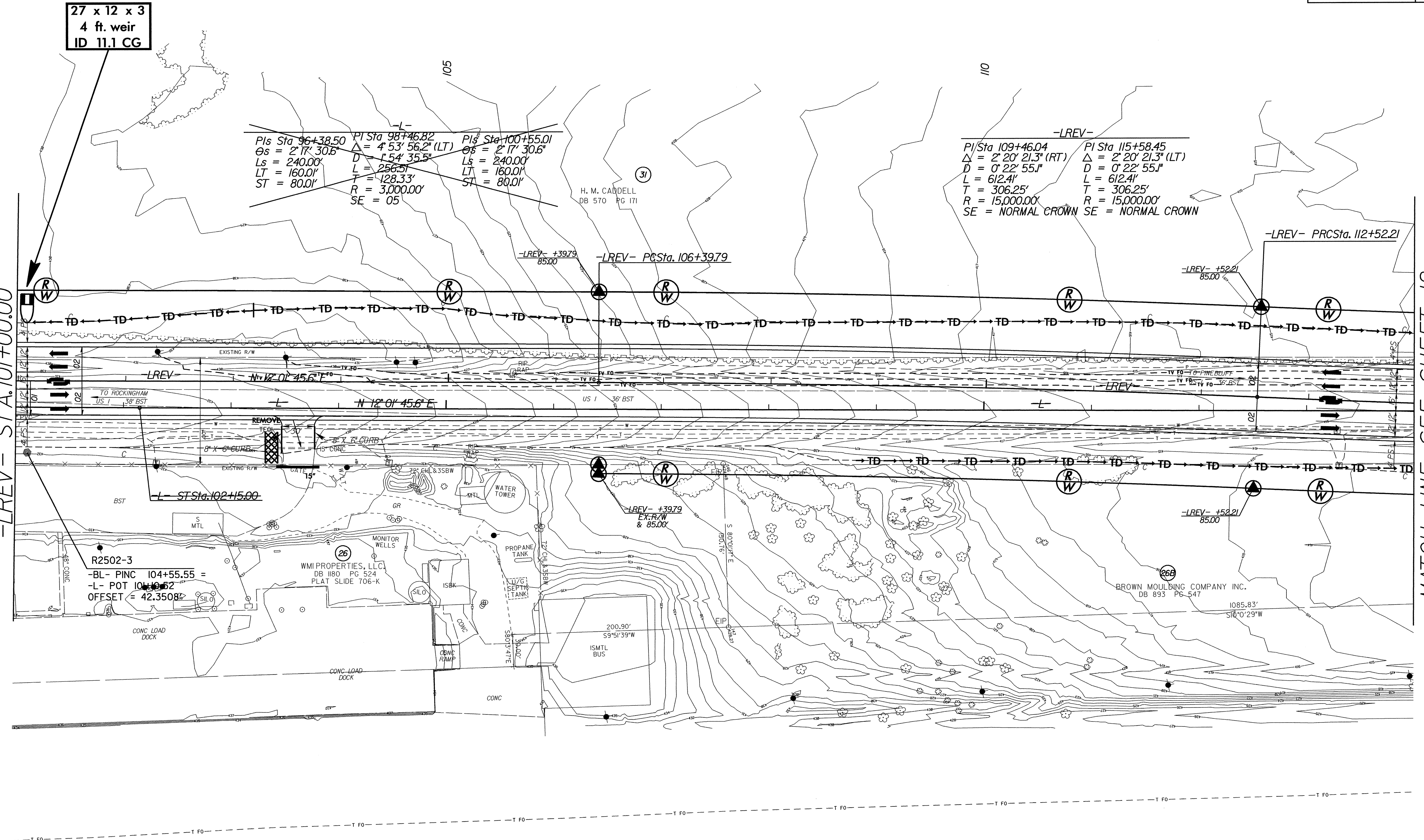
PROJECT REFERENCE NO. R-2502A	SHEET NO. EC-12/CONST.11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



27 x 12 x 3
4 ft. weir
ID 11.1 CG

MATCH LINE SEE SHEET 10
-LREV- STA. 101+00.00

MATCH LINE SEE SHEET 12
-LREV- STA. 114+00.00



R2502-3
-BL- PINC 104+55.55 =
-L- POT 104+52
OFFSET = 42.3508'

WMI PROPERTIES, L.L.C.
DB 1180 PG 524
PLAT SLIDE 706-K

BROWN MOULDING COMPANY INC.
DB 893 PG 547

ALL DRIVEWAY RADII ARE 10' UNLESS
OTHERWISE NOTED
SEE SHEET 30 FOR -LREV- PROFILE

21-FEB-2008 10:31
g:\ti\projects\2502a\environmental\design\r-2502a-ec-ps11.dgn
10/1/2008 10:31

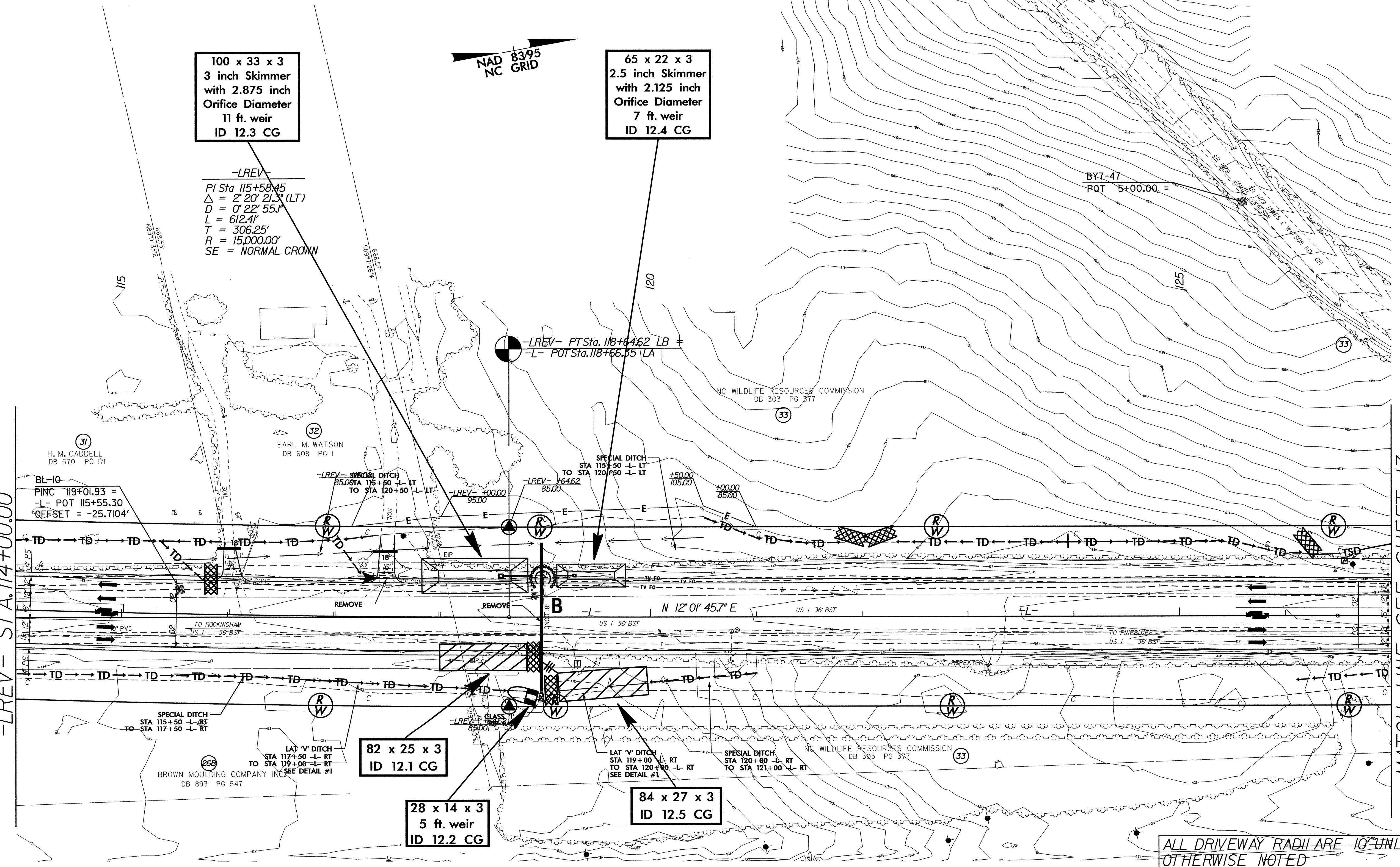
PROJECT REFERENCE NO. R-2502A	SHEET NO. EC-13/CONST.12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 12

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

MATCH LINE SEE SHEET 11
-LREV- STA. 114+00.00

MATCH LINE SEE SHEET 13
-L- STA. 127+00.00



NAD 83/95
NC GRID

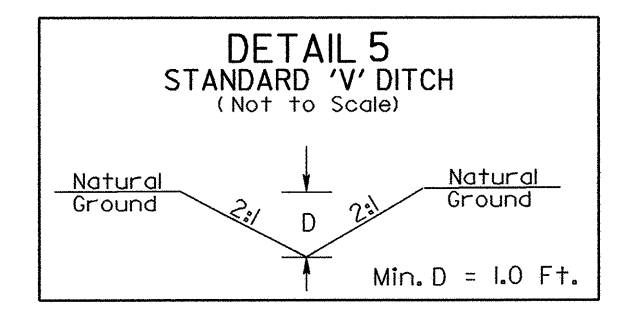
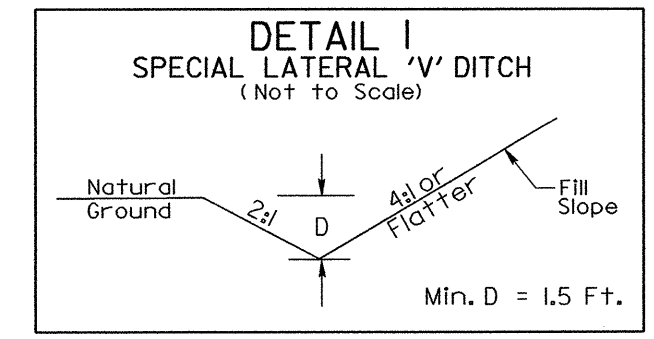
ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED
SEE SHEET 30 FOR -L- PROFILE
SEE SHEET 30 FOR -LREV- PROFILE

21-FEB-2008 16:35
S:\tippro\ectors\2502a\env\ironmental\design\2502a.ec-psht12.dgn
lenfifer@ncsh

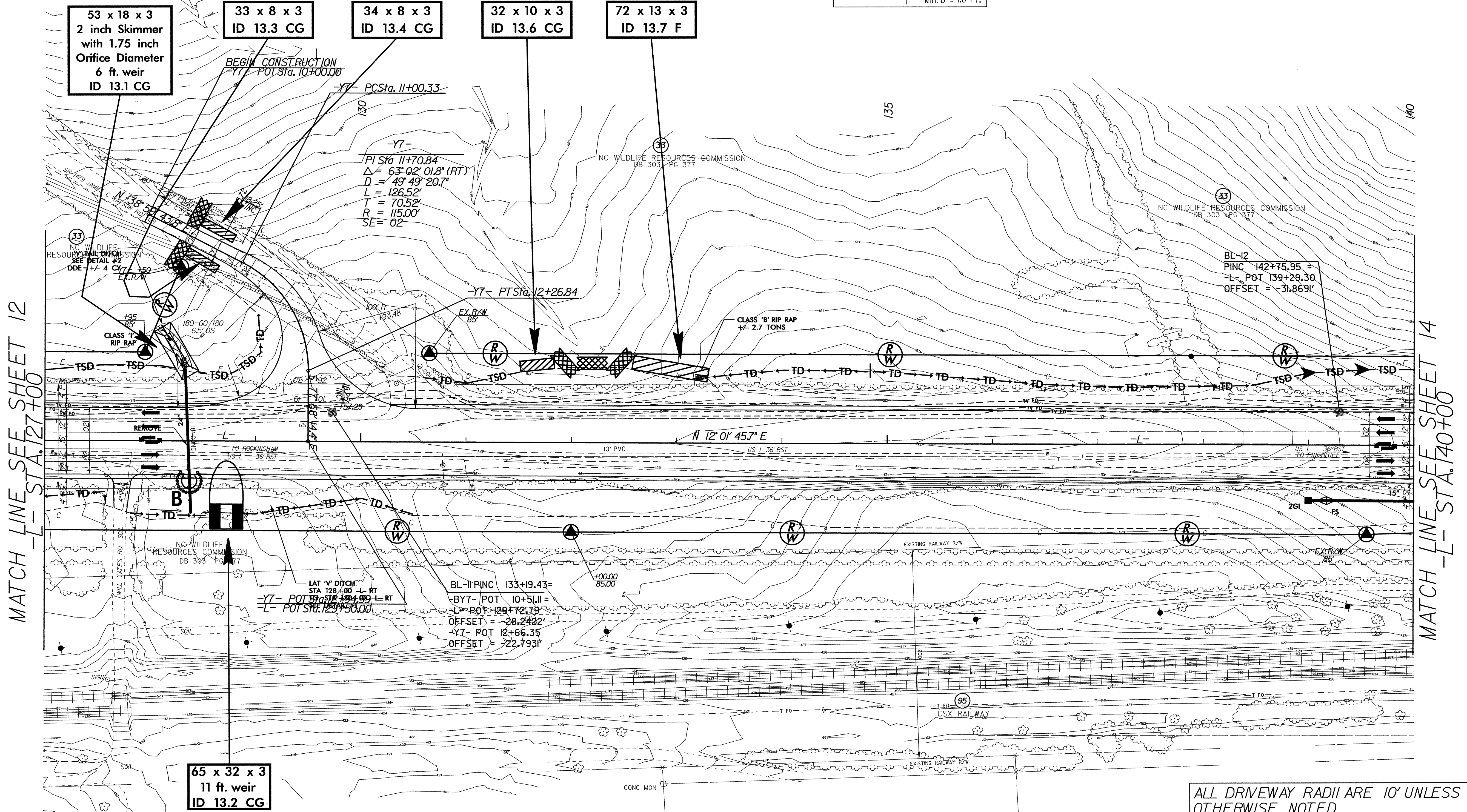
PROJECT REFERENCE NO. R-2502A	SHEET NO. EC-14/CONST.13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 13

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



NAD 8395
NC GRID



ALL DRIVEWAY RADII ARE 10' UNLESS
OTHERWISE NOTED
SEE SHEET 31 FOR -L- PROFILE
SEE SHEET 39 FOR -Y7- PROFILE

22-FEB-2008 16:52
g:\t\projects\r-2502a\environmental\design\r-2502a-ec.psh13.dgn
lenifer@ncdps.com AT: RENV214546

PROJECT REFERENCE NO.		SHEET NO.	
R-2502A		EC-15/CONST.14	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

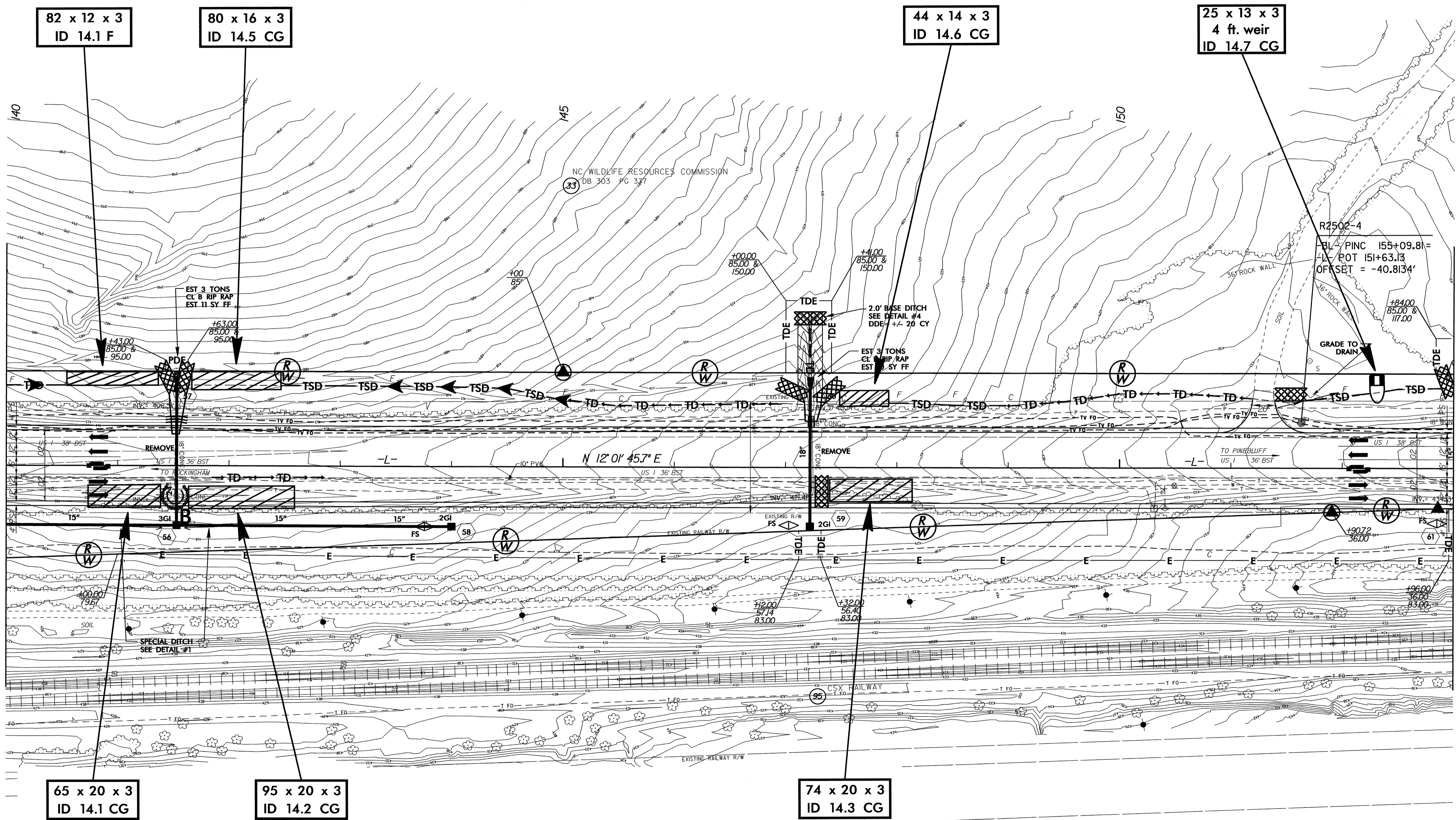
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 14

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

NAD 83/95
NC GRID

MATCH LINE SEE SHEET 13
-L- STA. 140+00.00

MATCH LINE SEE SHEET 15
-L- STA. 153+00.00



ALL DRIVEWAY RADII ARE 10' UNLESS
OTHERWISE NOTED
SEE SHEET 31 FOR -L- PROFILE

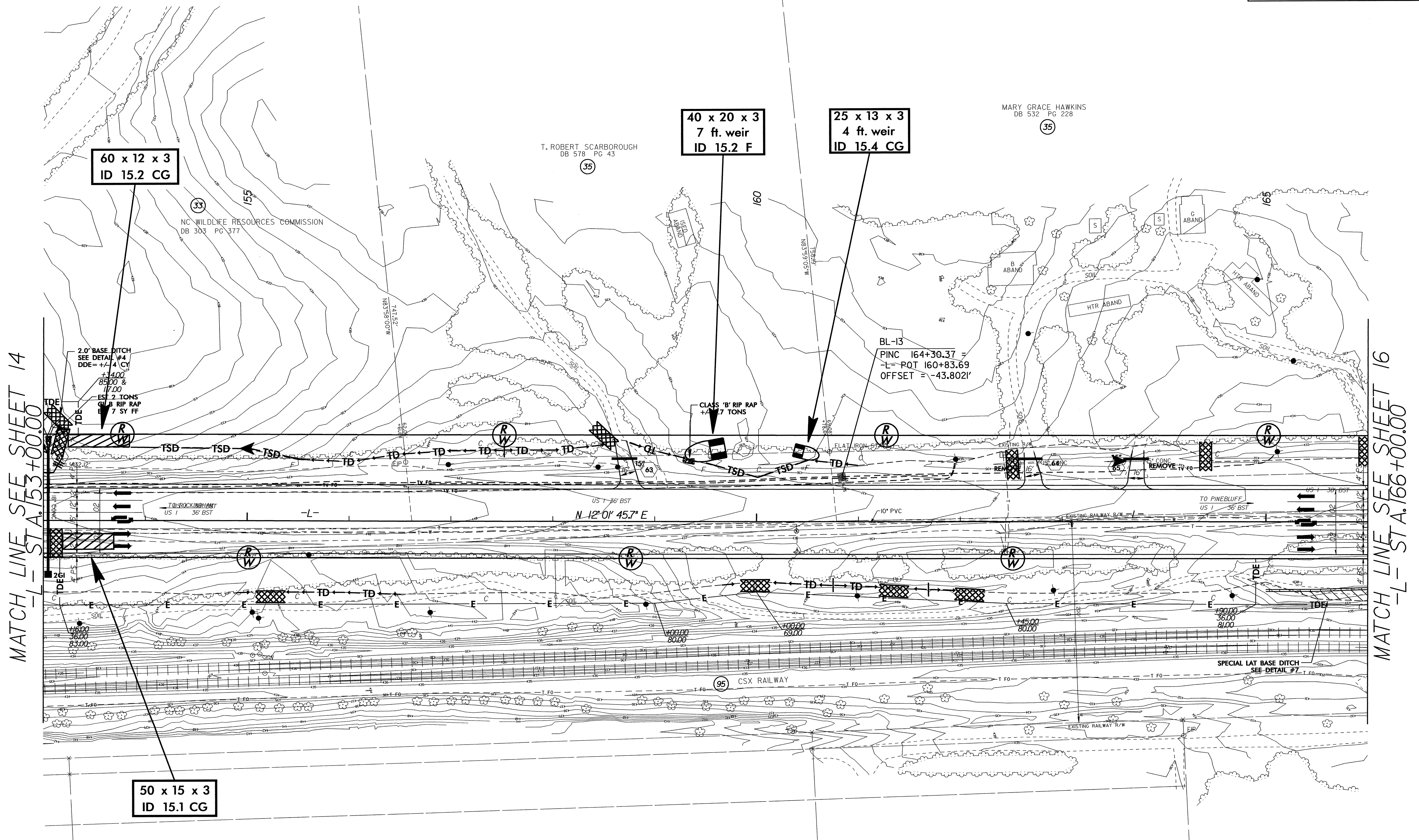
25-FEB-2008 09:38
s:\tipp\projects\2502a\environmental\design\2502a.ec.psh14.dgn
ferriferbach AT REN214546

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.

PROJECT REFERENCE NO. R-2502A	SHEET NO. EC-16/CONST.15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/95
NC
GRID



MATCH LINE -L- SEE SHEET 14
-L- STA. 53+00.00

MATCH LINE -L- SEE SHEET 16
-L- STA. 166+00.00

25-FEB-2008 16:25
G:\tj\proj\ec-15-r-2502a\env\frommental\design\2502a.ec-psht15.dgn
tj\proj\ec-15-r-2502a

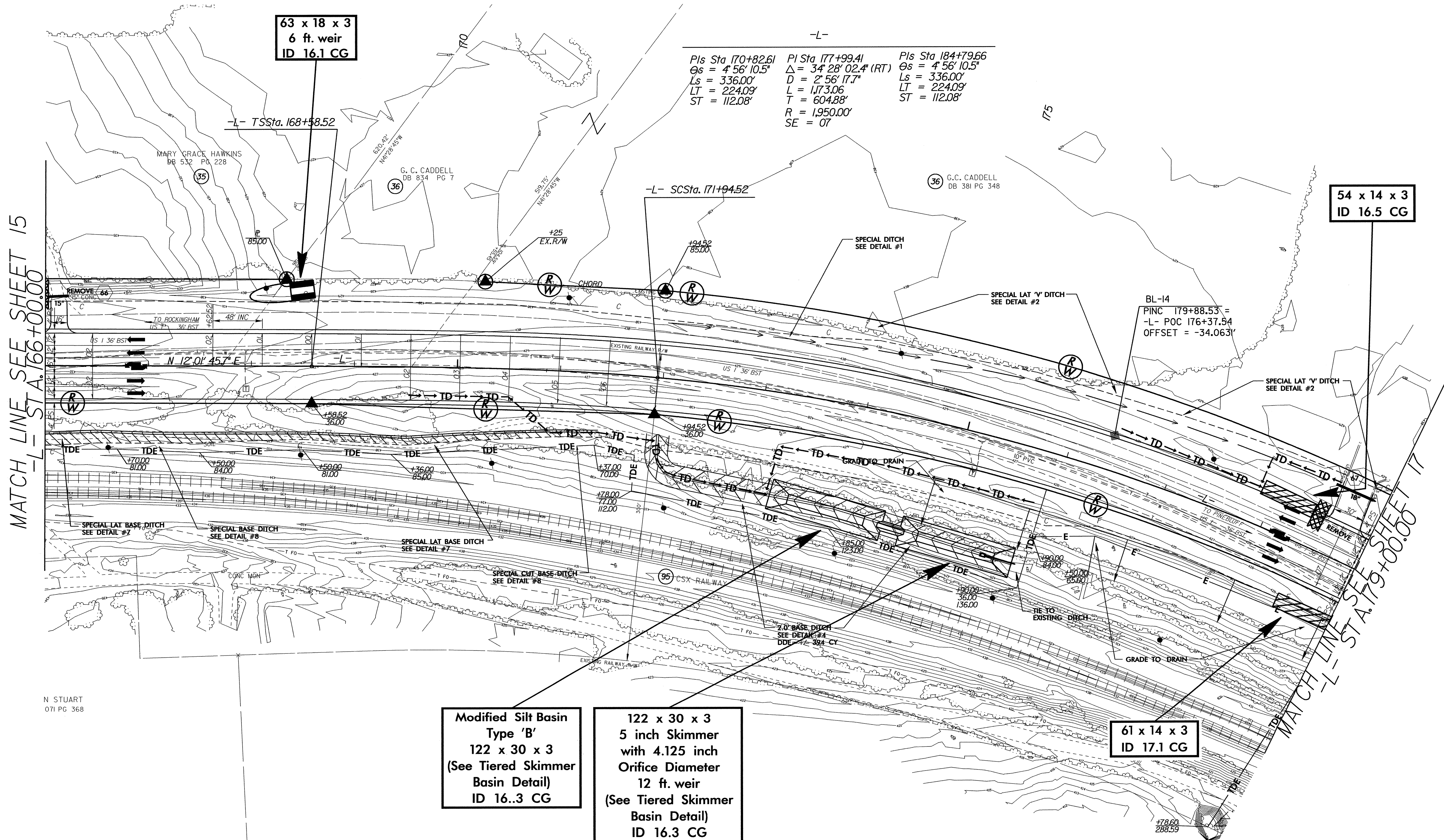
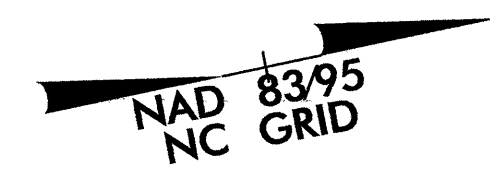
THOMAS L. TIGHE
DB 984 PG 758

ALL DRIVEWAY RADII ARE 10' UNLESS
OTHERWISE NOTED
SEE SHEET 32 FOR -L- PROFILE

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 16

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

PROJECT REFERENCE NO. R-2502A	SHEET NO. EC-17/CONST.16
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



-L-
 Pls Sta 170+82.61 Pls Sta 177+99.41 Pls Sta 184+79.66
 $\theta_s = 4' 56'' 10.5''$ $\Delta = 34' 28'' 02.4''$ (RT) $\theta_s = 4' 56'' 10.5''$
 $L_s = 336.00'$ $D = 2' 56'' 17.7''$ $L_s = 336.00'$
 $LT = 224.09'$ $L = 1,173.06'$ $LT = 224.09'$
 $ST = 112.08'$ $T = 604.88'$ $ST = 112.08'$
 $R = 1,950.00'$
 $SE = 07'$

MATCH LINE SEE SHEET 15
-L- STA. 166+00.00

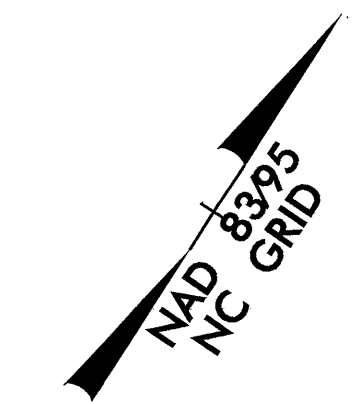
MATCH LINE SEE SHEET 17
-L- STA. 179+00.00

N STUART
071 PG 368

ALL DRIVEWAY RADII ARE 10' UNLESS
OTHERWISE NOTED
SEE SHEET 32 FOR -L- PROFILE

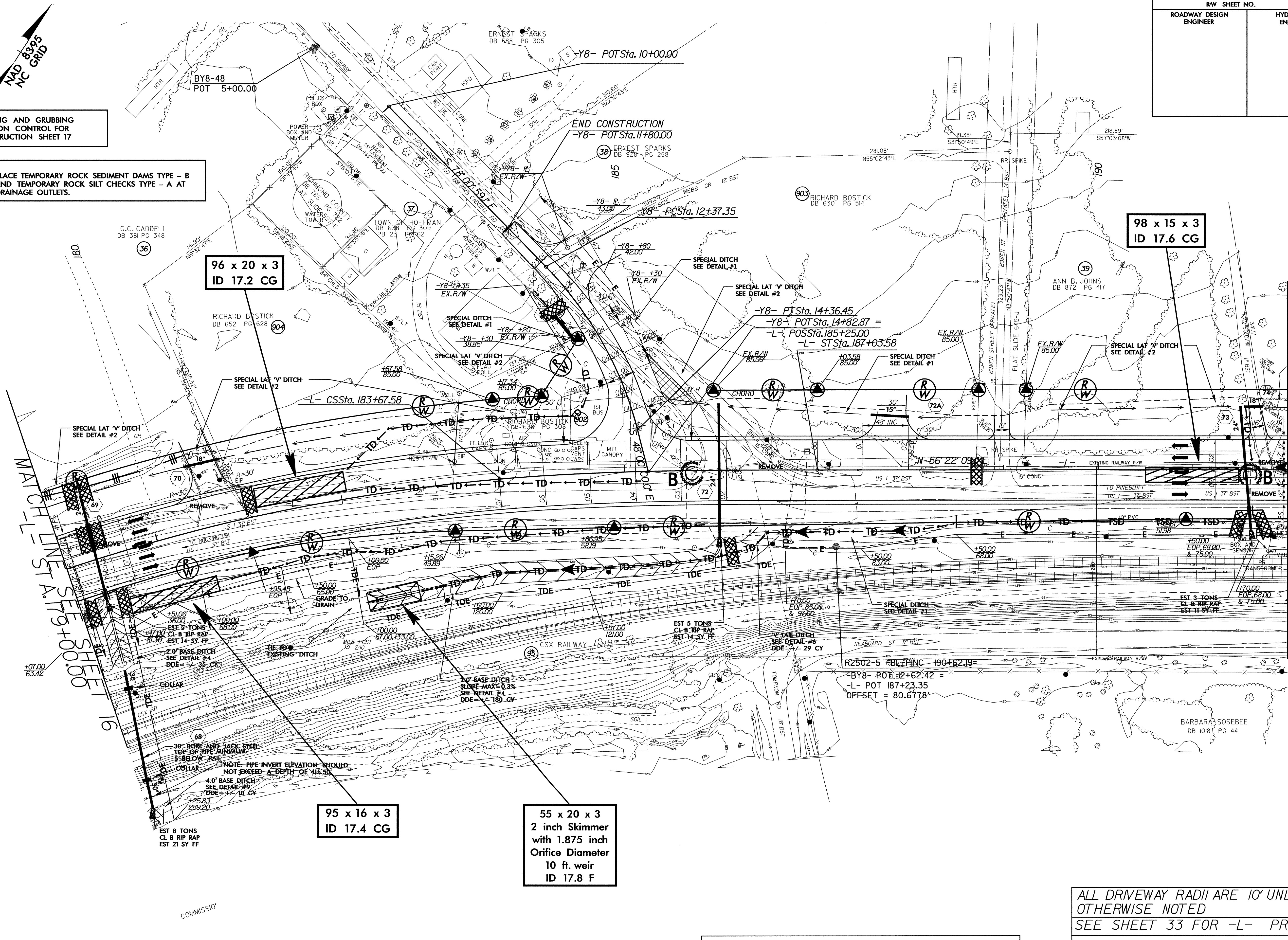
25-FEB-2008 16:32
G:\t\p\projects\2502a\environmental\design\2502a_ec_psh16.dgn
1601terpash

PROJECT REFERENCE NO.		SHEET NO.	
R-2502A		EC-18/CONST.17	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 17

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



MATCH LINE SEE SHEET 16
-L- STA. 179+00.00

MATCH LINE SEE SHEET 18
-L- STA. 192+00.00

26-FEB-2008 16:04
g:\tpp\projects\2502a\env\1\documental_des\gn\2502a_ec_psh17.dgn
small\psh17

SEE SHEET 2-D FOR R/W ALIGNMENT DATA

ALL DRIVEWAY RADII ARE 10' UNLESS
OTHERWISE NOTED
SEE SHEET 33 FOR -L- PROFILE
SEE SHEET 39 FOR -Y8- PROFILE

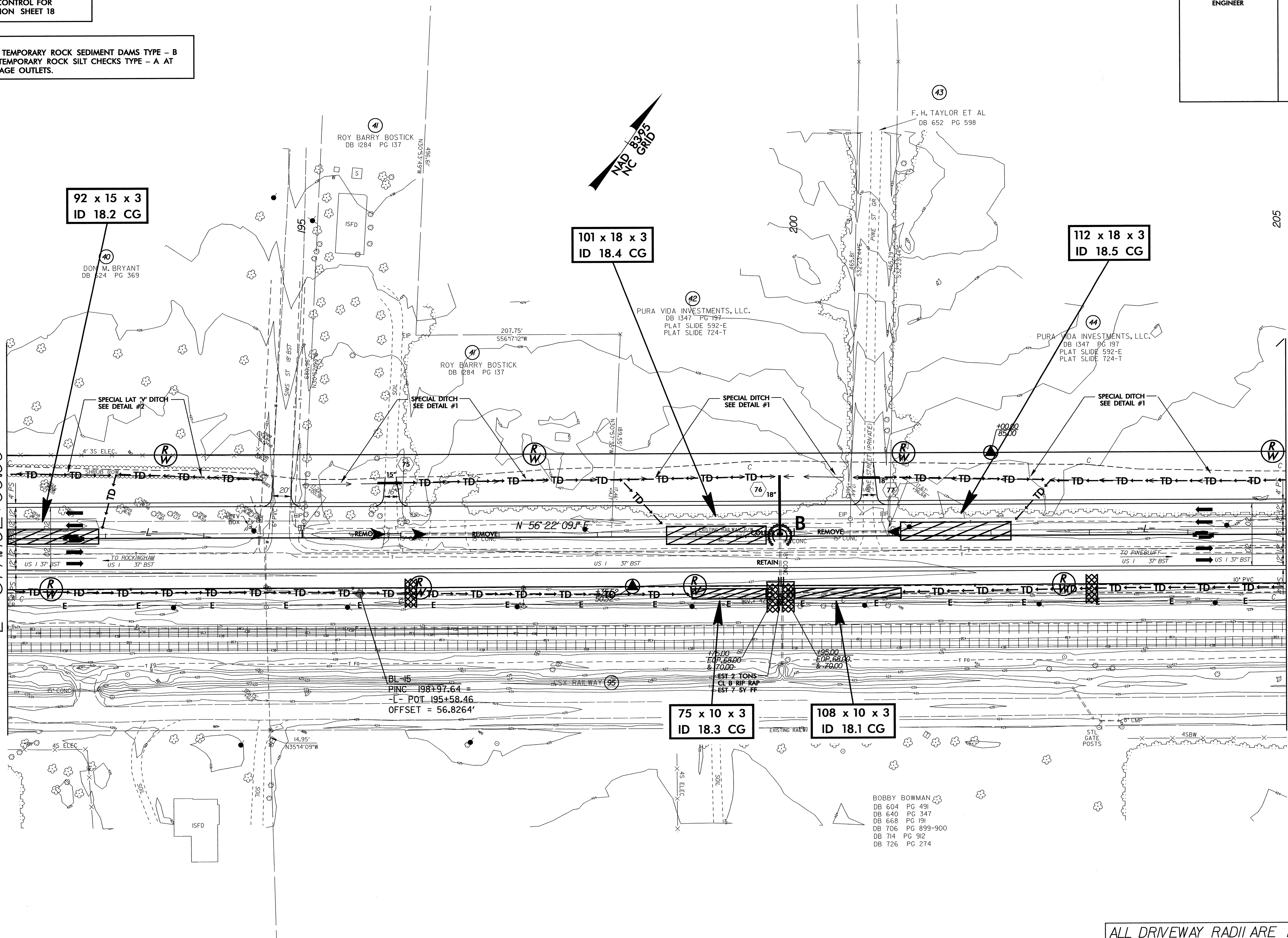
PROJECT REFERENCE NO. R-2502A	SHEET NO. EC-19/CONST JB
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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.

MATCH LINE SEE SHEET 17
-L- STA. 192+00.00

MATCH LINE SEE SHEET 19
-L- STA. 205+00.00



BL -15
PINC 198+97.64 =
-L- POT 195+58.46
OFFSET = 56.8264'

BOBBY BOWMAN
DB 604 PG 491
DB 640 PG 347
DB 668 PG 191
DB 706 PG 899-900
DB 714 PG 912
DB 726 PG 274

SEE SHEET 2-E FOR R/W ALIGNMENT DATA

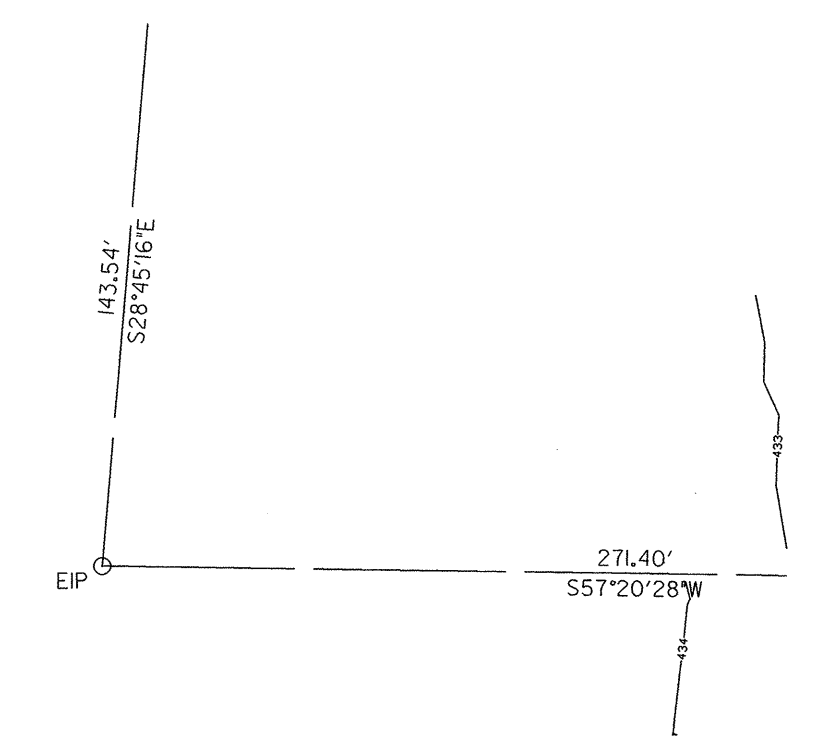
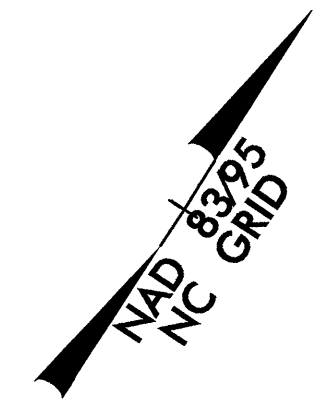
ALL DRIVEWAY RADII ARE 10' UNLESS
OTHERWISE NOTED
SEE SHEET 33 FOR -L- PROFILE

26-FEB-2008 16:39
G:\projects\2502a\environmental\design\2502a-ec-ps18.dgn
penit@penitsh

PROJECT REFERENCE NO. R-2502A	SHEET NO. EC-20/CONST.19
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

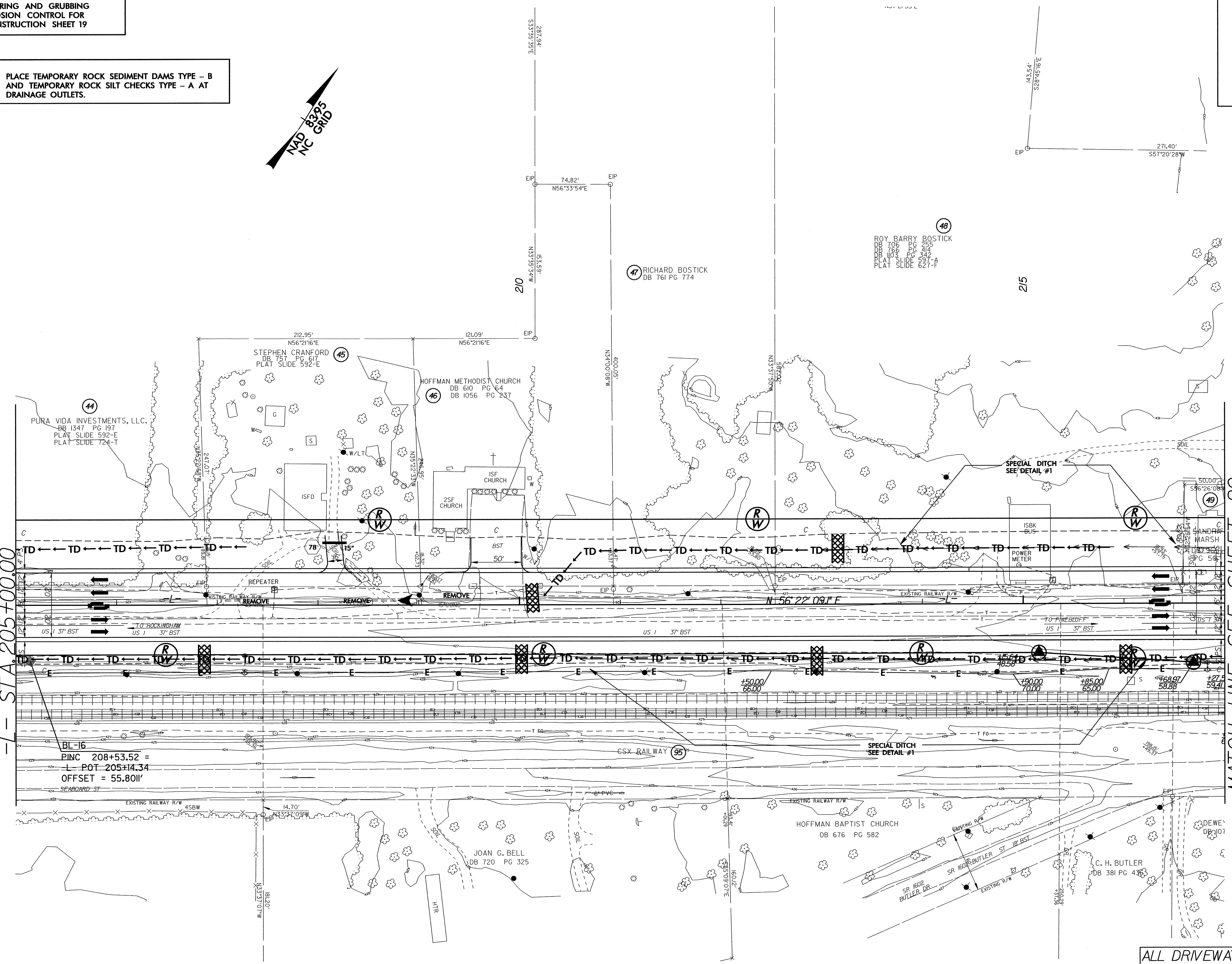
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 19

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



MATCH LINE SEE SHEET 18
-L- STA. 205+00.00

MATCH LINE SEE SHEET 20
-L- STA. 217+00.00



BL-16
PINC 208+53.52 =
L POT 205+14.34
OFFSET = 55.801'

SEE SHEET 2-F FOR R/W ALIGNMENT DATA

ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED
SEE SHEET 34 FOR -L- PROFILE

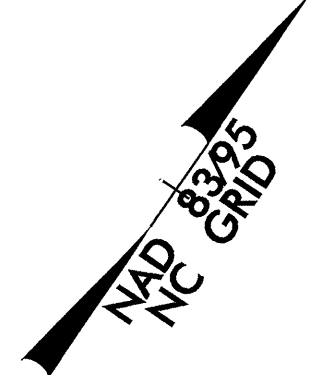
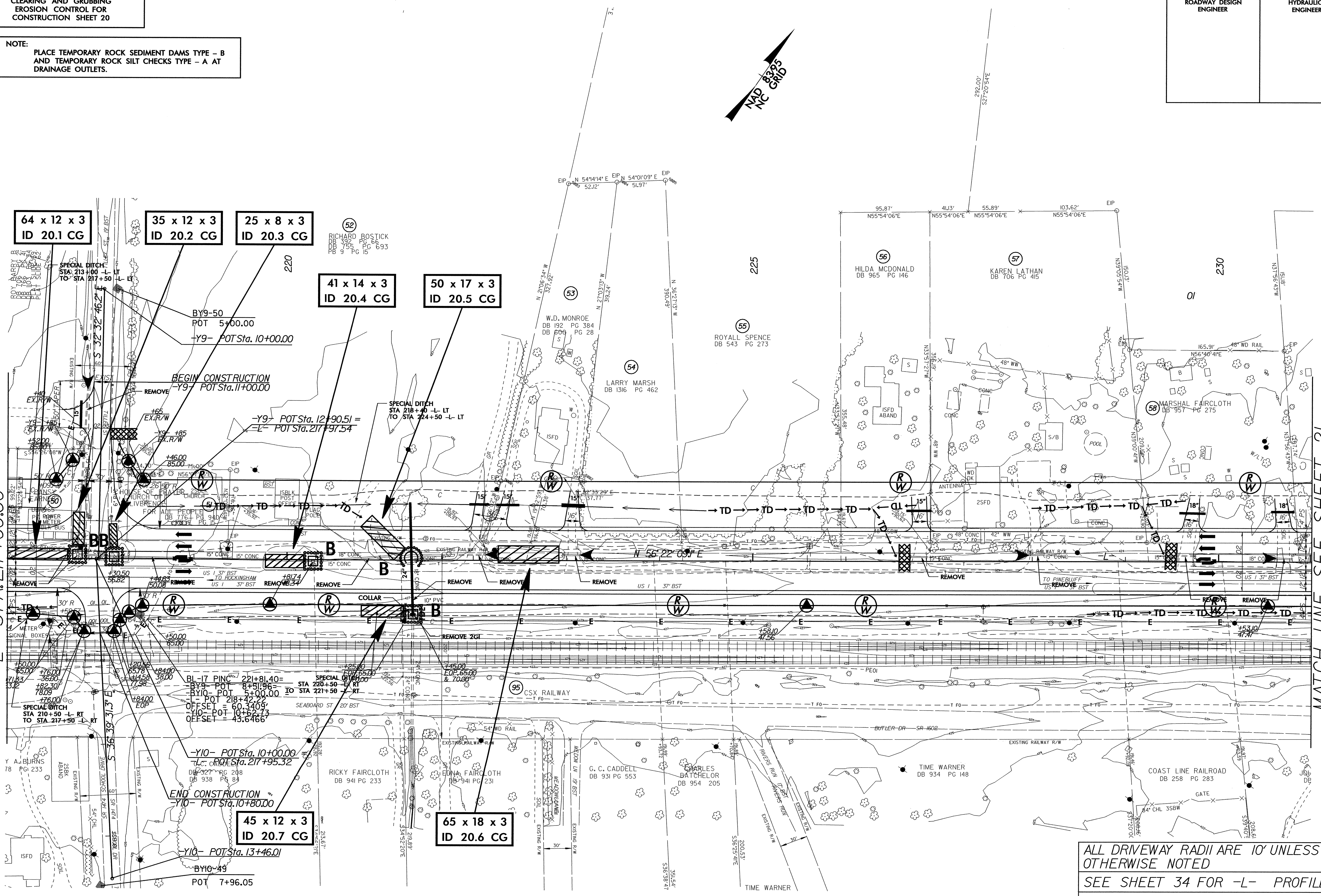
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 20

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

PROJECT REFERENCE NO. R-2502A	SHEET NO. EC-21/CONST.20
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCH LINE SEE SHEET 19
-L- STA. 217+00.00

MATCH LINE SEE SHEET 21
-L- STA. 231+00.00



ALL DRIVEWAY RADII ARE 10' UNLESS
OTHERWISE NOTED
SEE SHEET 34 FOR -L- PROFILE
SEE SHEET 39 FOR -Y9- PROFILE
SEE SHEET 39 FOR -Y10- PROFILE

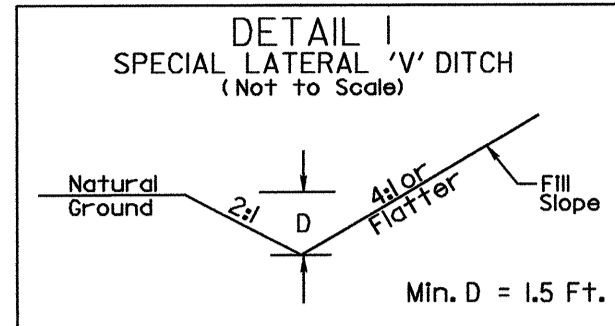
SEE SHEET 2-G FOR R/W ALIGNMENT DATA

27-FEB-2008 14:40
g:\tpp\projects-r-2502a\environmental\design-r-2502a.ec-psh20.dgn
s:\tpp\projects-r-2502a\env\henn21546

**CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 21**

NOTE:

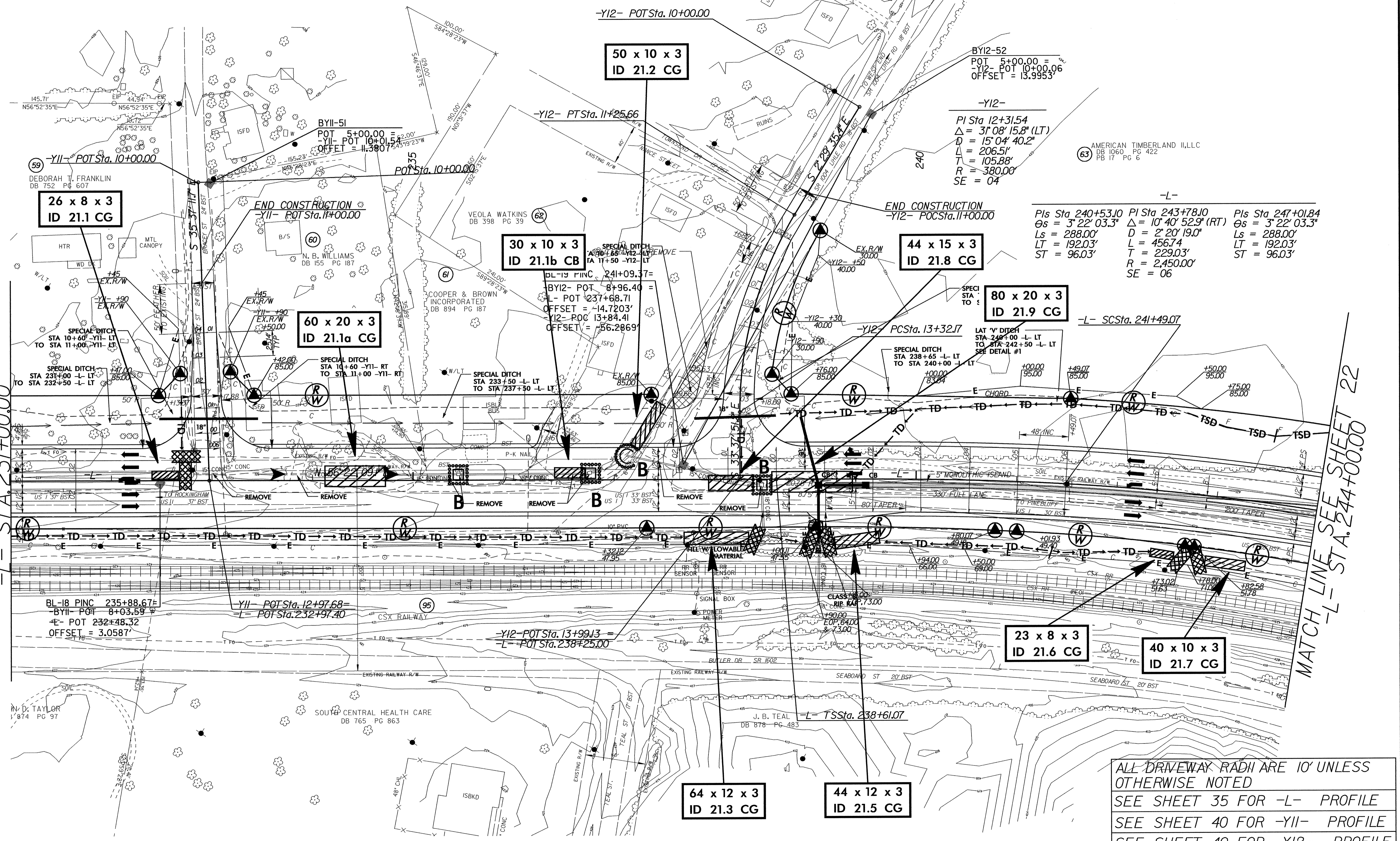
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.



PROJECT REFERENCE NO. R-2502A	SHEET NO. EC-22/CONST.21
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCH LINE SEE SHEET 20
-L- STA 231+00.00

MATCH LINE SEE SHEET 22
-L- STA 244+00.00



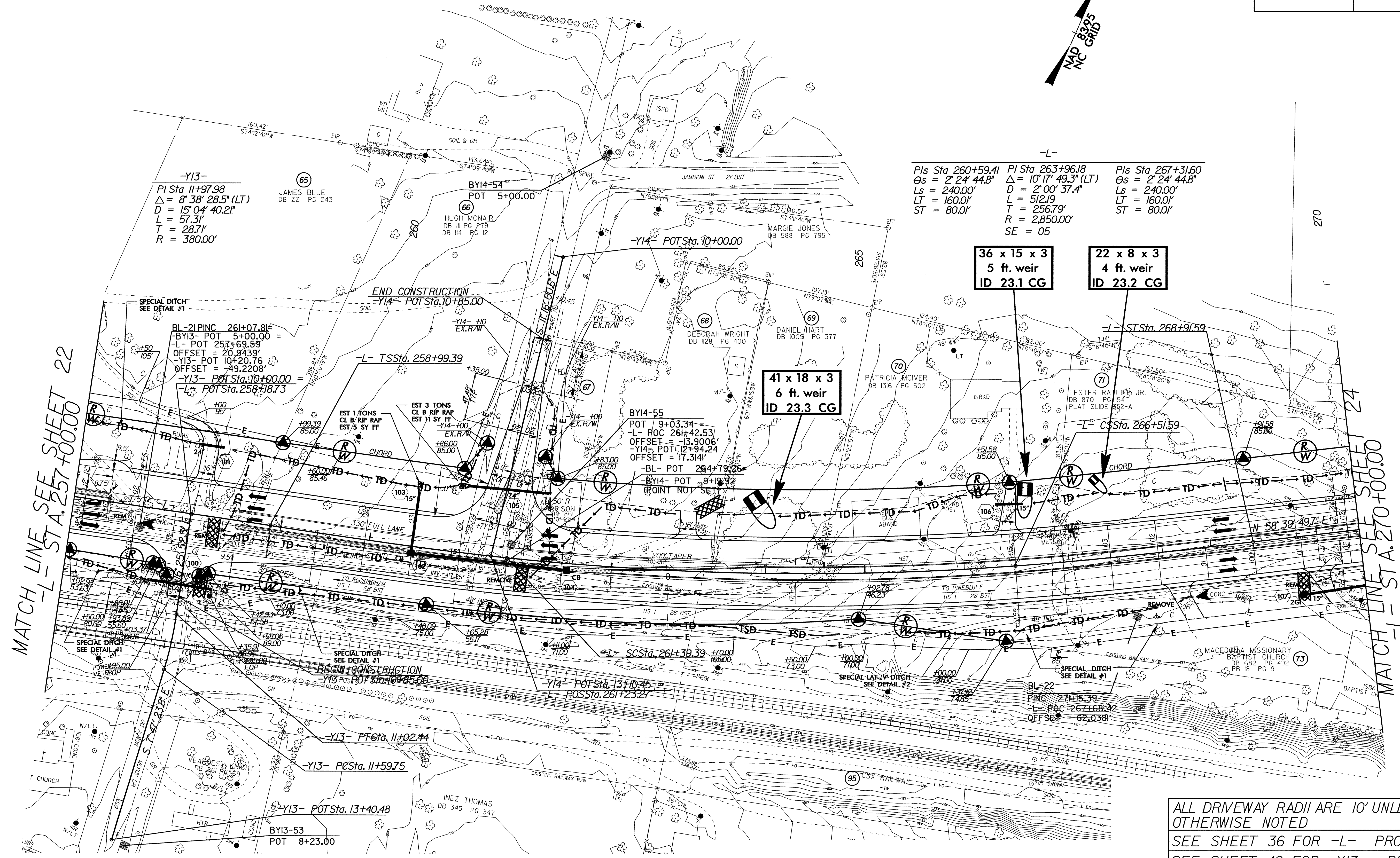
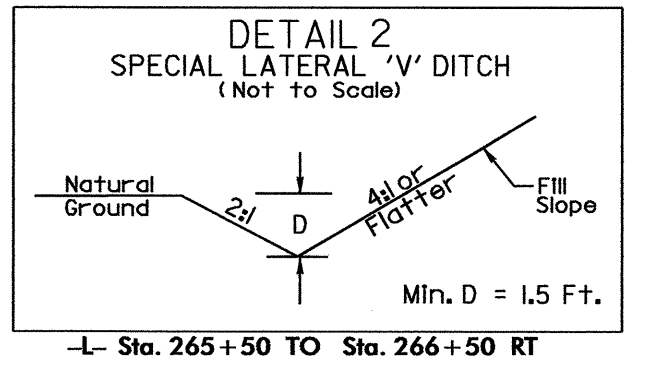
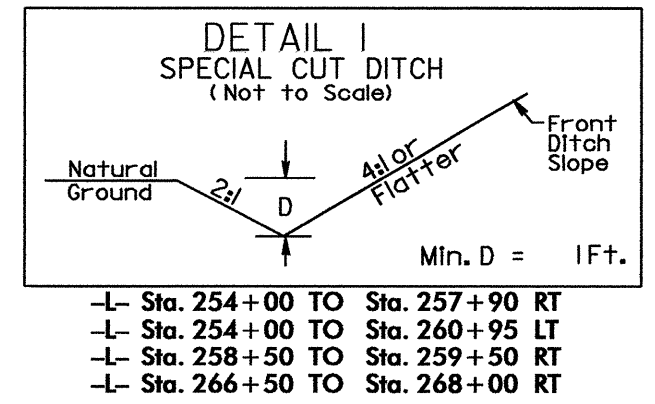
ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED
SEE SHEET 35 FOR -L- PROFILE
SEE SHEET 40 FOR -YII- PROFILE
SEE SHEET 40 FOR -Y12- PROFILE
SEE SHEET 2-H FOR R/W ALIGNMENT DATA

27-FEB-2008 16:20
g:\projects\2502a\environmental\design\2502a-ec-psd\21.dgn
AutoCAD 2008
User: jsh

PROJECT REFERENCE NO.	SHEET NO.
R-2502A	EC-24/CONST.23
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 23

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



-L-
Pls Sta 260+59.41 PI Sta 263+96.18 Pls Sta 267+31.60
Os = 2' 24' 44.8" Δ = 10' 17' 49.3" (LT) Os = 2' 24' 44.8"
Ls = 240.00' D = 2' 00' 37.4" Ls = 240.00'
LT = 160.01' L = 512.19 LT = 160.01'
ST = 80.01' T = 256.79' ST = 80.01'
R = 2,850.00'
SE = 05

MATCH LINE SEE SHEET 22
-L- STA. 257+00.00

MATCH LINE SEE SHEET 24
-L- STA. 270+00.00

ALL DRIVEWAY RADII ARE 10' UNLESS
OTHERWISE NOTED
SEE SHEET 36 FOR -L- PROFILE
SEE SHEET 40 FOR -Y13- PROFILE
SEE SHEET 40 FOR -Y14- PROFILE

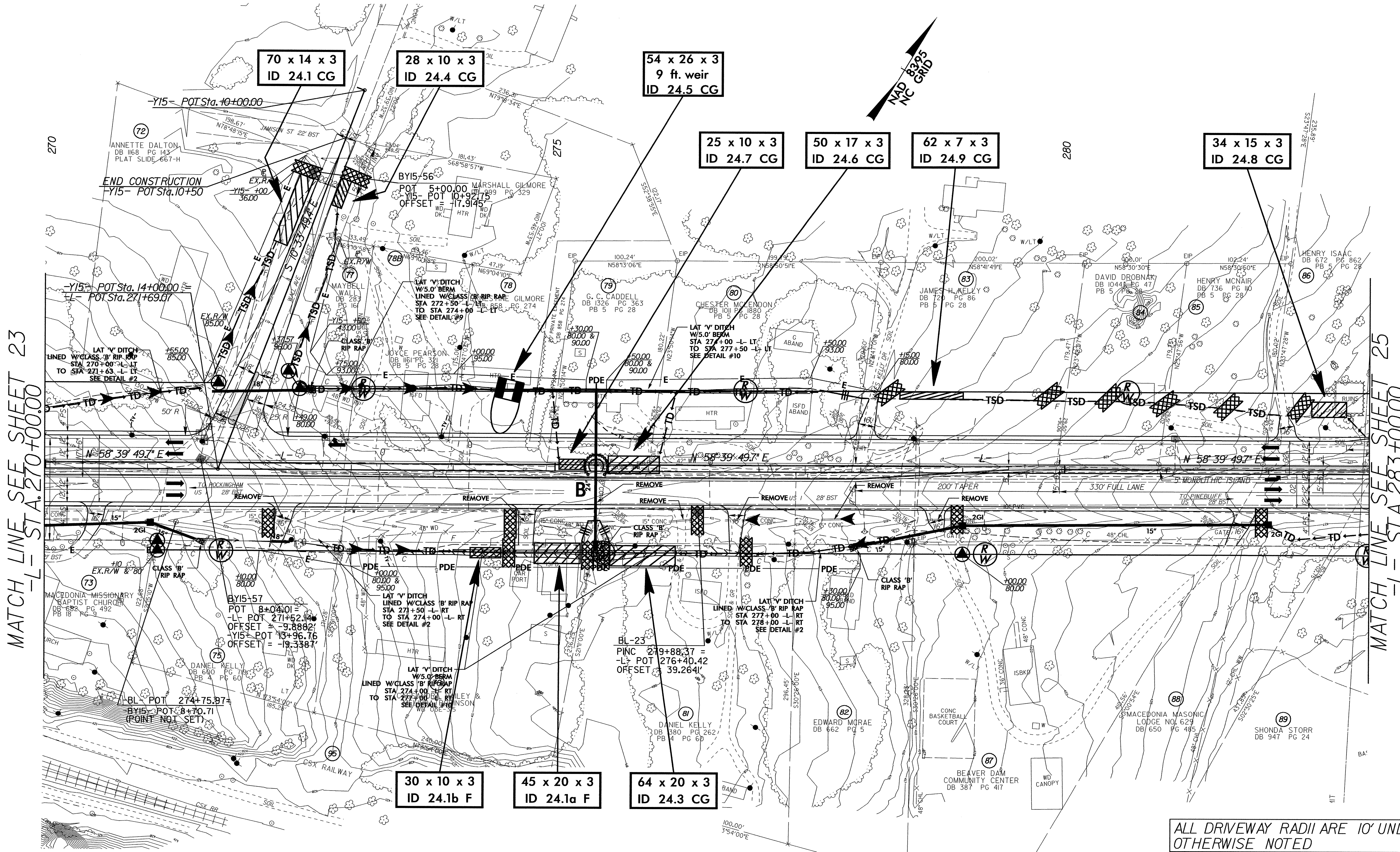
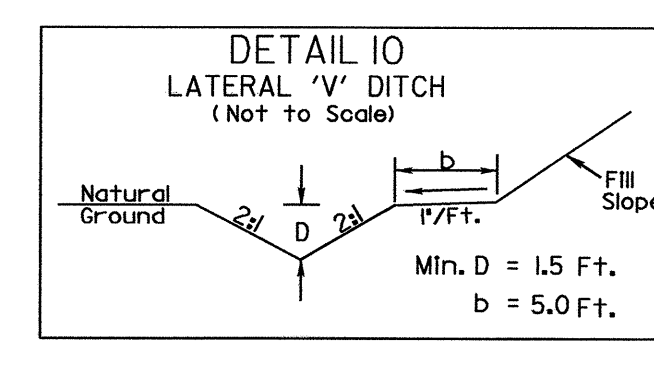
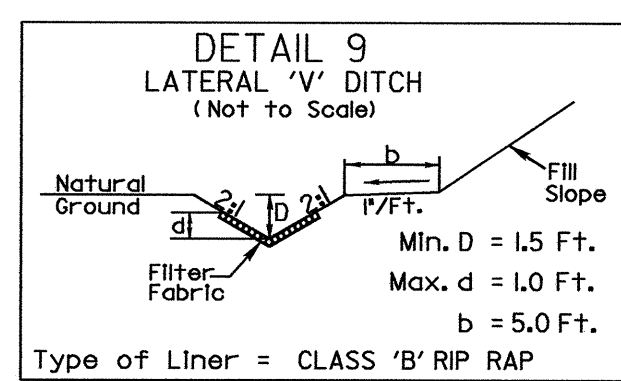
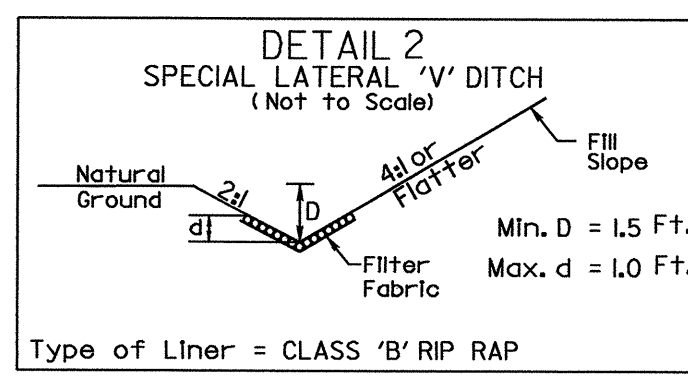
SEE SHEET 2-J FOR R/W ALIGNMENT DATA

28-FEB-2008 14:28
g:\tipac\projects-r\2502a\env\informal\design\2502a.ec_psh23.dgn
enr\informal

PROJECT REFERENCE NO.	SHEET NO.
R-2502A	EC-25/CONST.24
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 24

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



MATCH LINE SEE SHEET 23
-L- STA. 270+00.00

MATCH LINE SEE SHEET 25
-L- STA. 283+00.00

ALL DRIVEWAY RADII ARE 10' UNLESS
OTHERWISE NOTED
SEE SHEET 36 FOR -L- PROFILE
SEE SHEET 40 FOR -Y15- PROFILE

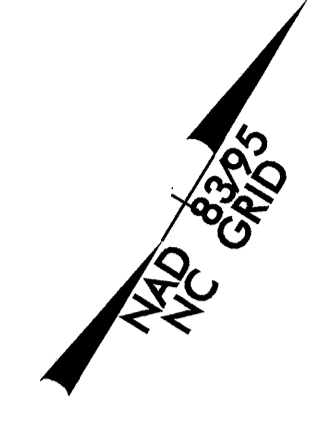
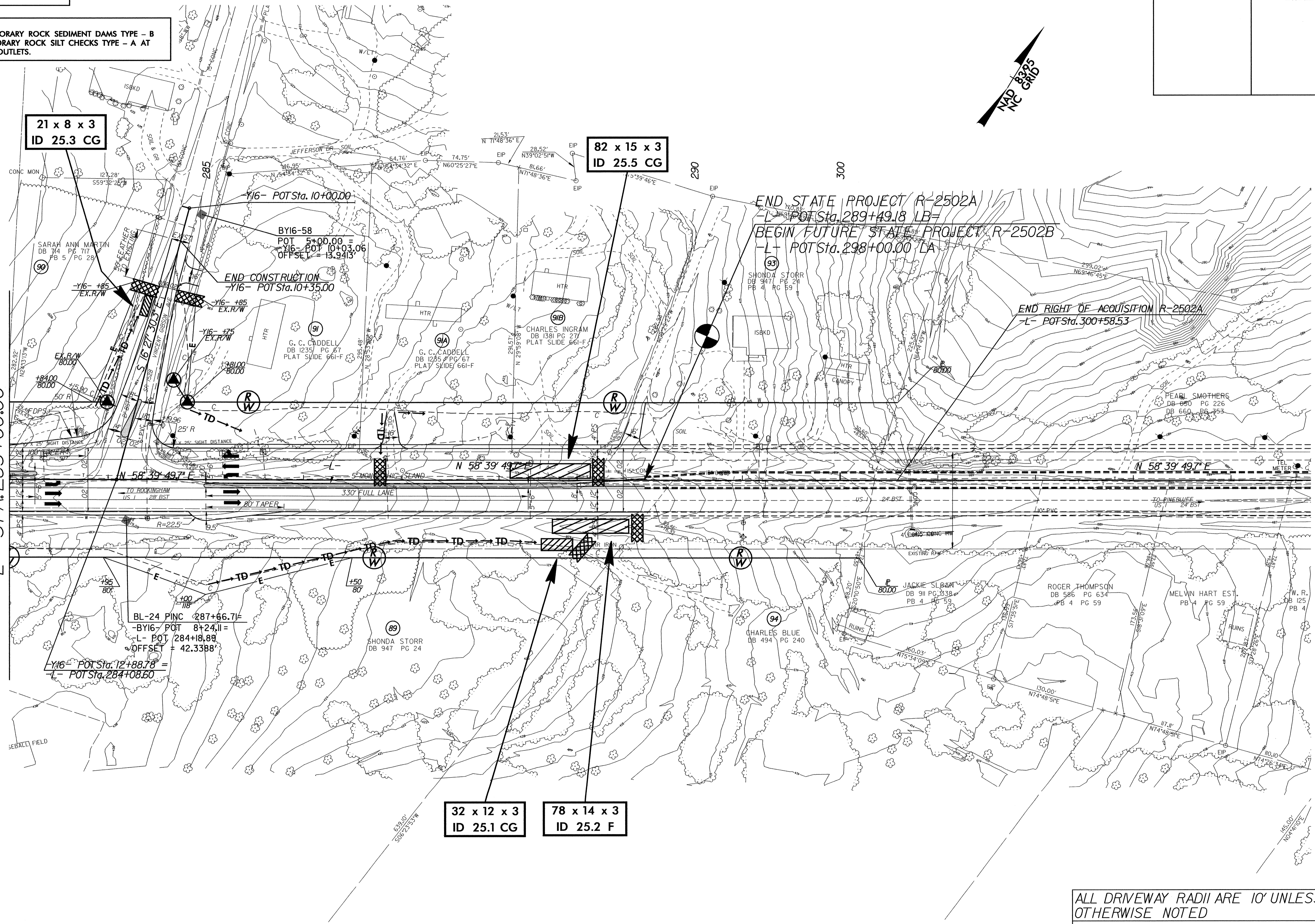
29-FEB-2008 12:02
g:\tippro\projects\1-2502a\env\ifromental\design\vr2502a.ec.psh24.dgn
10/11/2007 11:46

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 25

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

PROJECT REFERENCE NO.	SHEET NO.
R-2502A	EC-26/CONST.25
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCH LINE SEE SHEET 24
-L- STA. 283+00.00

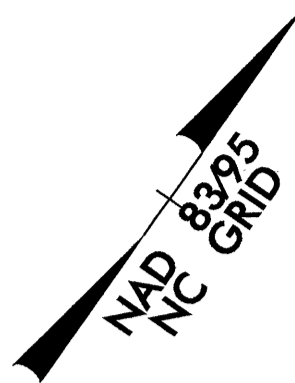


ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED
SEE SHEET 37 FOR -L- PROFILE
SEE SHEET 40 FOR -Y16- PROFILE

29-FEB-2008 12:08
g:\tipp\c\ec\25-r\2502a\env\frommental\design\2502a.ec_psh25.dgn
enr\for\at\HEN\214546

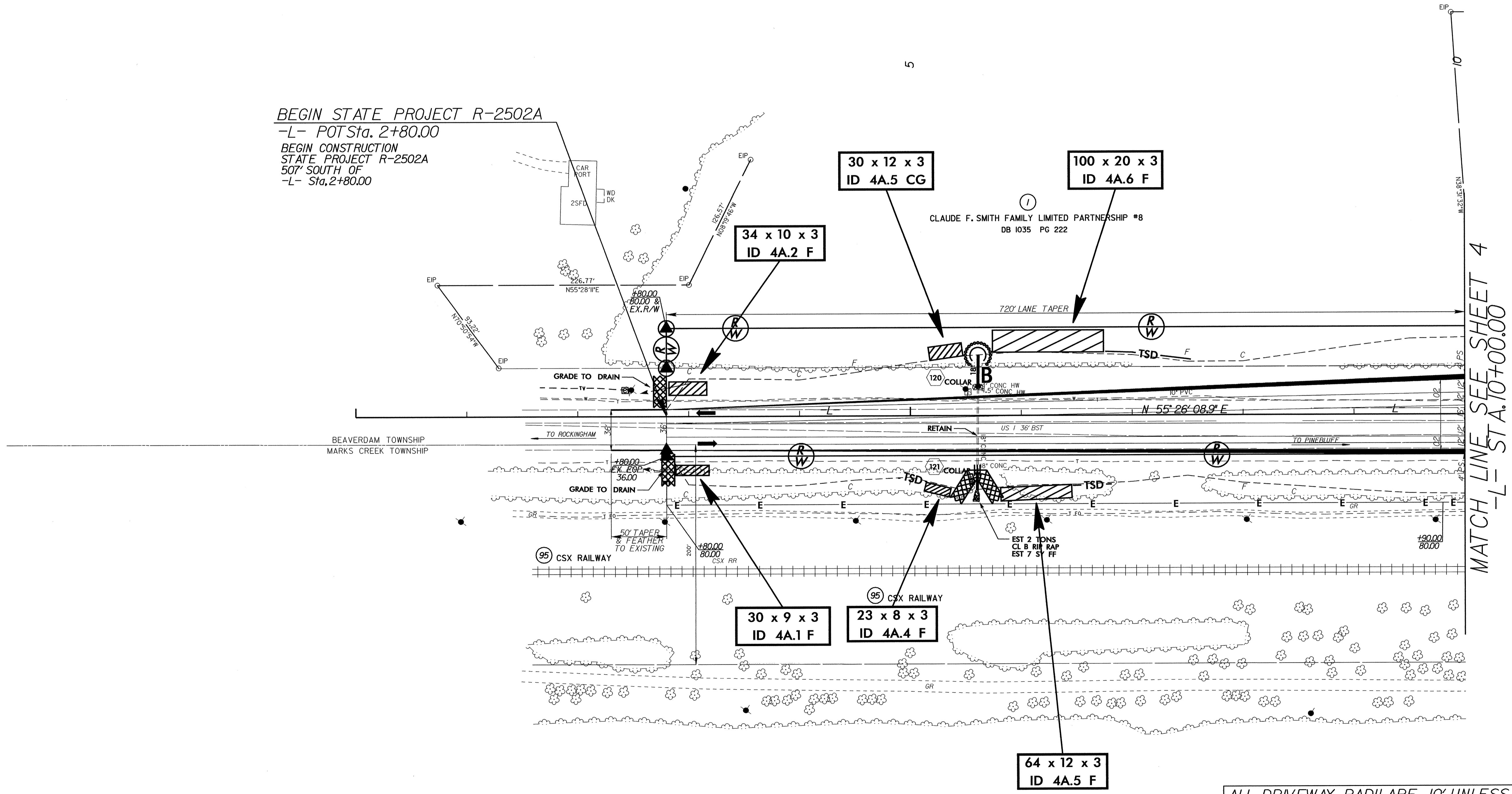
PROJECT REFERENCE NO. R-2502A	SHEET NO. EC-27/CONST.4A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

8/17/99



BEGIN STATE PROJECT R-2502A

-L- POT Sta. 2+80.00
 BEGIN CONSTRUCTION
 STATE PROJECT R-2502A
 50' SOUTH OF
 -L- Sta. 2+80.00

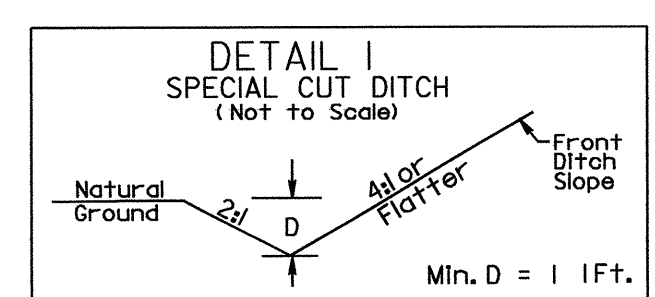


MATCH LINE SEE SHEET 4
 -L- STA. 10+00.00

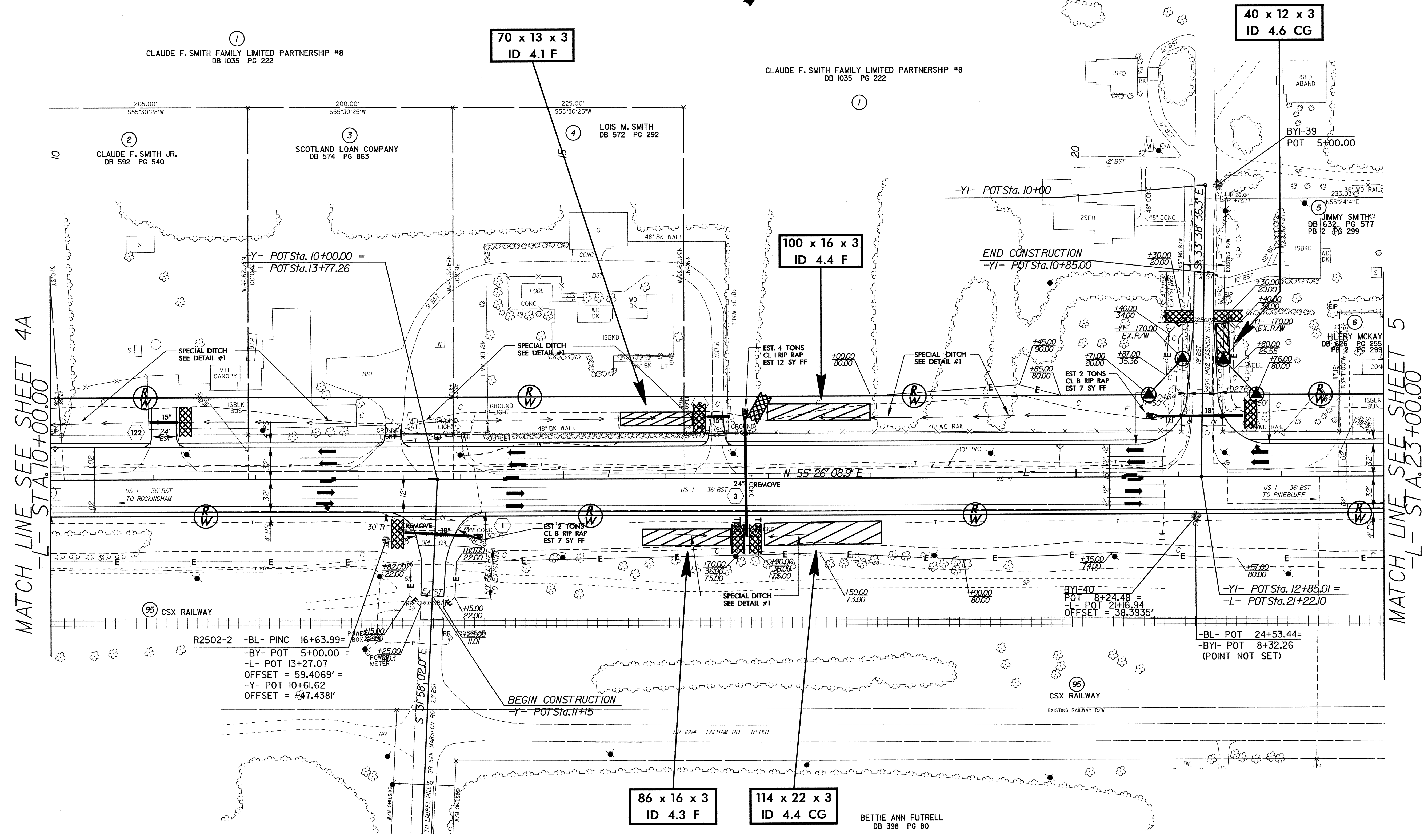
ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED
 SEE SHEET 26 FOR -L- PROFILE

07-MAR-2008 09:24
 G:\projects\2502a\environmental\design\2502a-ec-ps\4a.dgn
 jennifere@psd.com

PROJECT REFERENCE NO. R-2502A	SHEET NO. EC-28/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



- L- Sta. 10+00 TO Sta. 13+00 LT
- L- Sta. 13+60 TO Sta. 16+75 LT
- L- Sta. 16+00 TO Sta. 17+50 RT
- L- Sta. 17+50 TO Sta. 20+00 LT



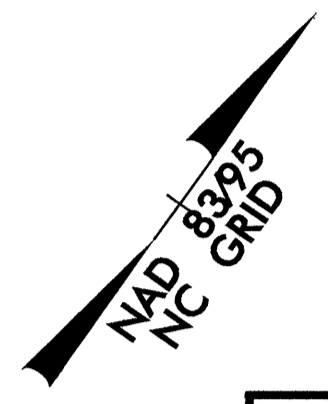
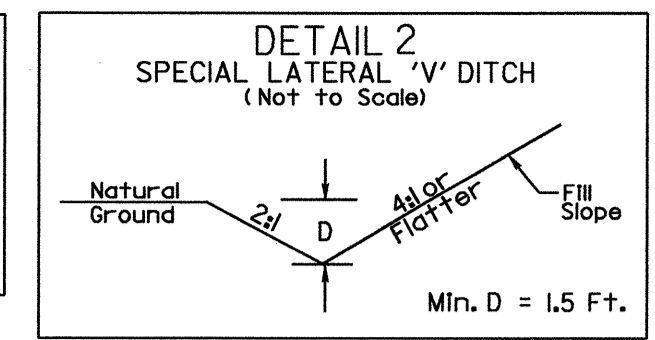
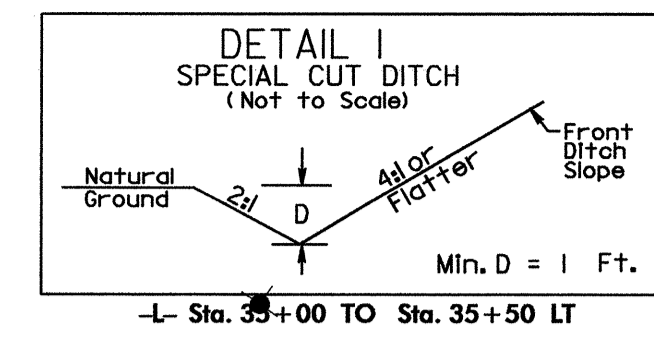
MATCH LINE SEE SHEET 4A
-L- STA. 10+00.00

MATCH LINE SEE SHEET 5
-L- STA. 23+00.00

03-MAR-2008 09:28
g:\tpp\c\ec-28-r-2502a\env\environmental\des\gn-r-2502a.ec-ps-h4.dgn
fennel\ec-28-r-2502a.dwg AT RBN214516

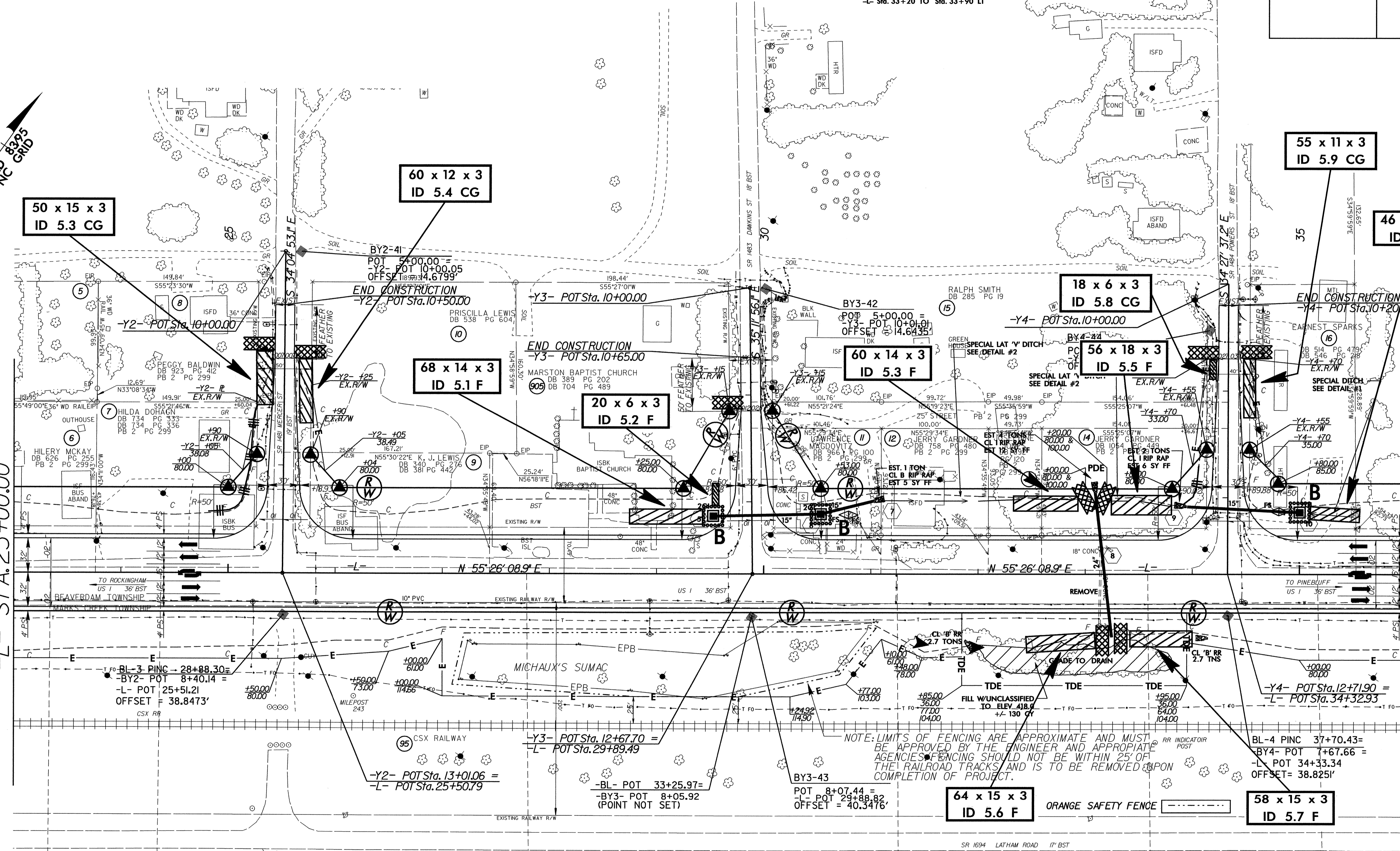
BETTIE ANN FUTRELL
DB 398 PG 80

PROJECT REFERENCE NO. R-2502A		SHEET NO. EC-29/CONST.5	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



MATCH LINE SEE SHEET 4
-L- STA. 23+00.00

MATCH LINE SEE SHEET 6
-L- STA. 36+00.00



NOTE: LIMITS OF FENCING ARE APPROXIMATE AND MUST BE APPROVED BY THE ENGINEER AND APPROPRIATE AGENCIES. FENCING SHOULD NOT BE WITHIN 25' OF THE RAILROAD TRACKS AND IS TO BE REMOVED UPON COMPLETION OF PROJECT.

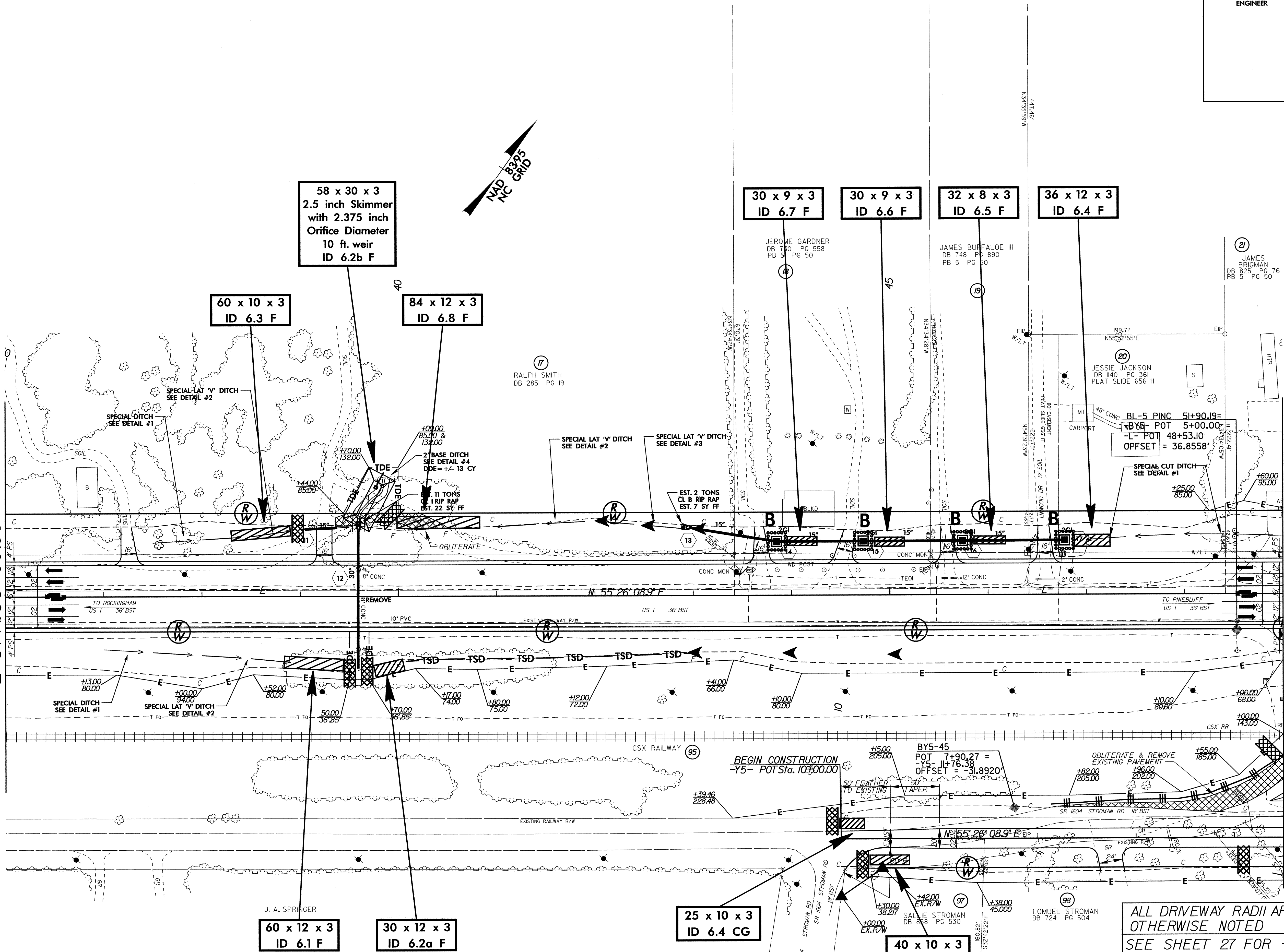
ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED
 SEE SHEET 27 FOR -L- PROFILE
 SEE SHEET 38 FOR -Y2- PROFILE
 SEE SHEET 38 FOR -Y3- PROFILE
 SEE SHEET 38 FOR -Y4- PROFILE

15-FEB-2008 10:12
 g:\tipproj\ec-r-1-2502a\env\form\ec-r-2502a.ec-psh5.dgn
 leon.fenwick at RENW21546

PROJECT REFERENCE NO. R-2502A	SHEET NO. EC-30/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCH LINE SEE SHEET 5
-L- STA. 36+00.00

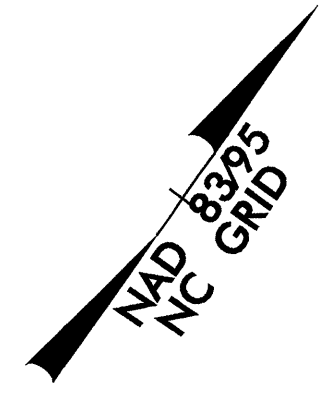
MATCH LINE SEE SHEET 7
-L- STA. 49+00.00



ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED
SEE SHEET 27 FOR -L- PROFILE
SEE SHEET 38 FOR -Y5- PROFILE

15-FEB-2008 10:19
g:\t\projects-r-v-2502a\enviromental\design-r-2502a-ec-psb6.dgn
temp\psh6.dwg
11:54:46

PROJECT REFERENCE NO. R-2502A	SHEET NO. EC-31/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

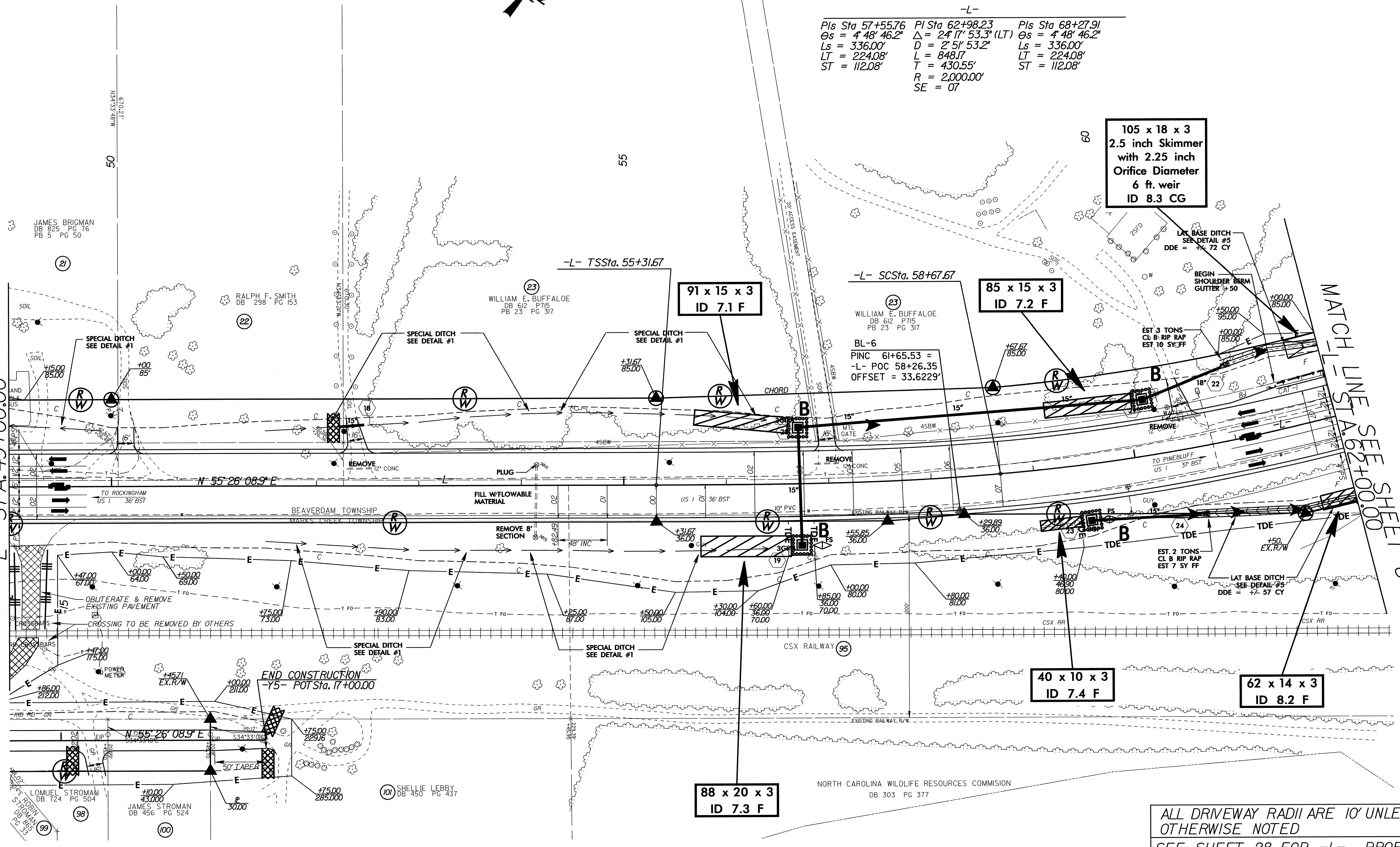


-L-

Pls Sta 57+55.76	Pls Sta 62+98.23	Pls Sta 68+27.91
$\Theta_s = 4' 48' 46.2''$	$\Delta = 24' 17' 53.3''$ (LT)	$\Theta_s = 4' 48' 46.2''$
$L_s = 336.00'$	$D = 2' 51' 53.2''$	$L_s = 336.00'$
$LT = 224.08'$	$L = 848.17'$	$LT = 224.08'$
$ST = 112.08'$	$T = 430.55'$	$ST = 112.08'$
	$R = 2,000.00'$	
	$SE = 07'$	

MATCH LINE SEE SHEET 6
-L- STA. 49+00.00

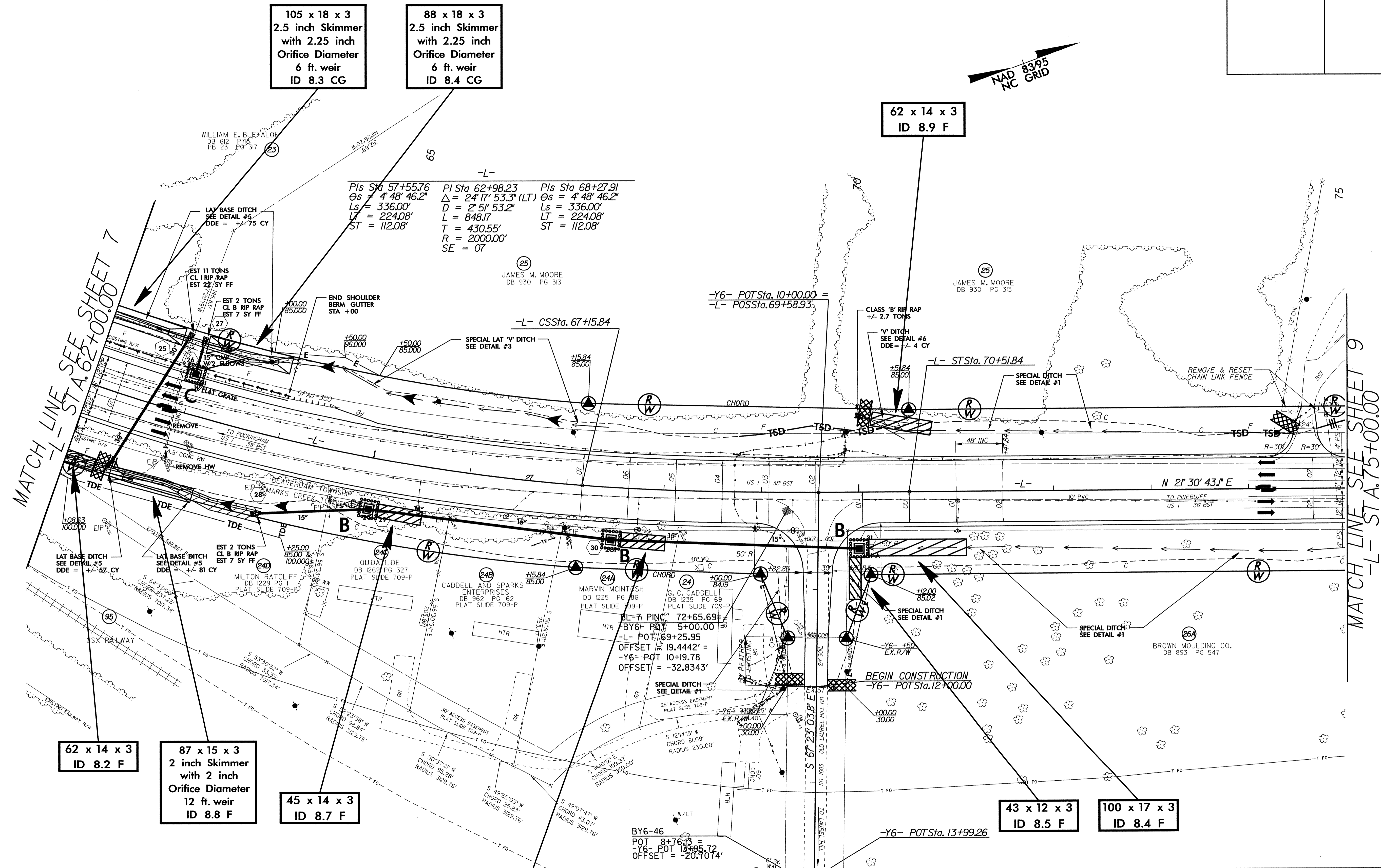
MATCH LINE SEE SHEET 8
STA. 62+00.00



ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED
SEE SHEET 28 FOR -L- PROFILE
SEE SHEET 38 FOR -Y5- PROFILE

15-FEB-2008 10:27
g:\tip\projects-r-v-2502a\enviromental\design\r-2502a-ec-psr7.dgn
lenntip@ncpi.com

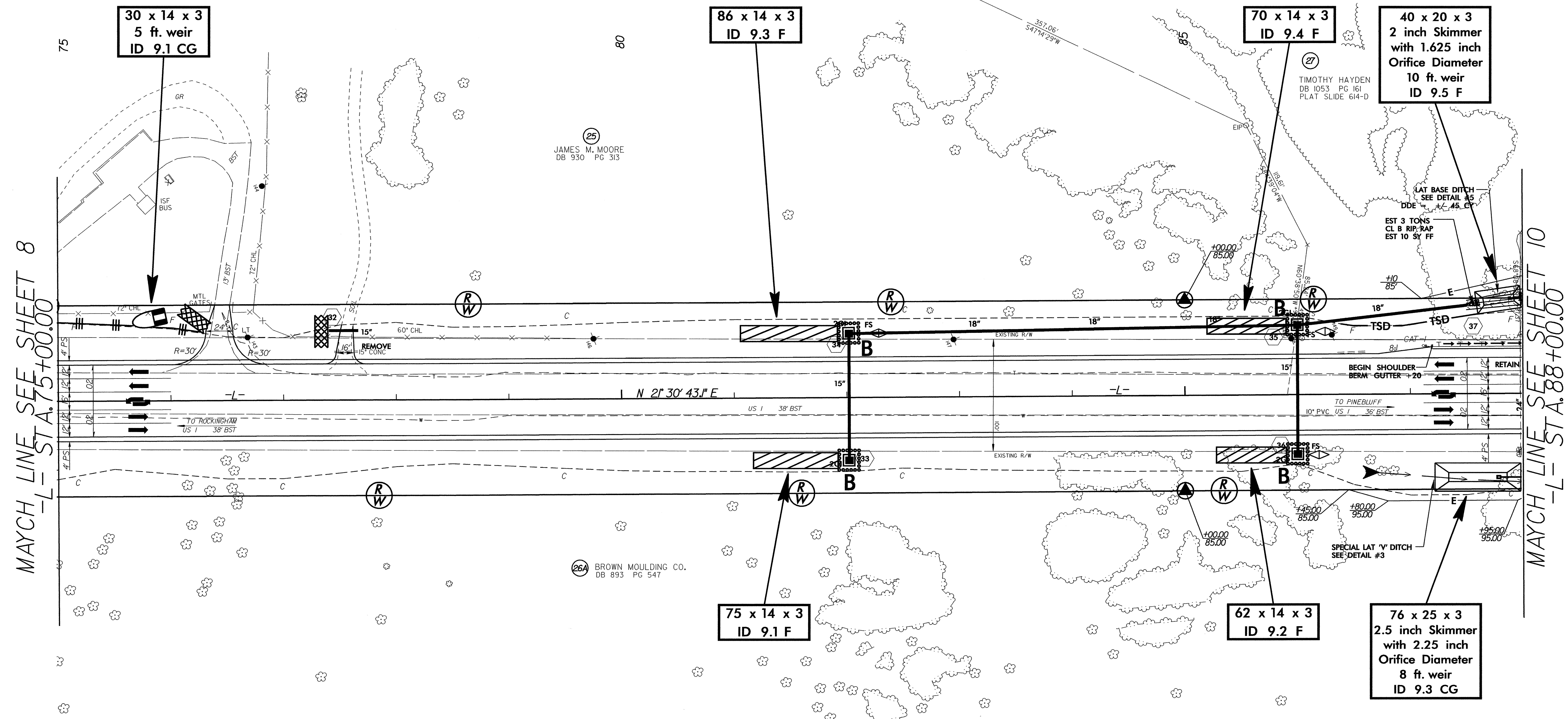
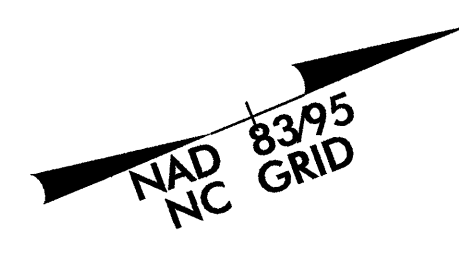
PROJECT REFERENCE NO.	SHEET NO.
R-2502A	EC-32/CONST.B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED
 SEE SHEET 28 FOR -L- PROFILE
 SEE SHEET 39 FOR -Y6- PROFILE

20-FEB-2008 13:28
 G:\projects\2502a\environmental\design\r-2502a-ec-psd8.dgn
 jennifercash AT BRN214546

PROJECT REFERENCE NO.		SHEET NO.	
R-2502A		EC-33/CONST.9	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



MAYCH LINE SEE SHEET 8
-L- STA. 75+00.00

MAYCH LINE SEE SHEET 10
-L- STA. 88+00.00

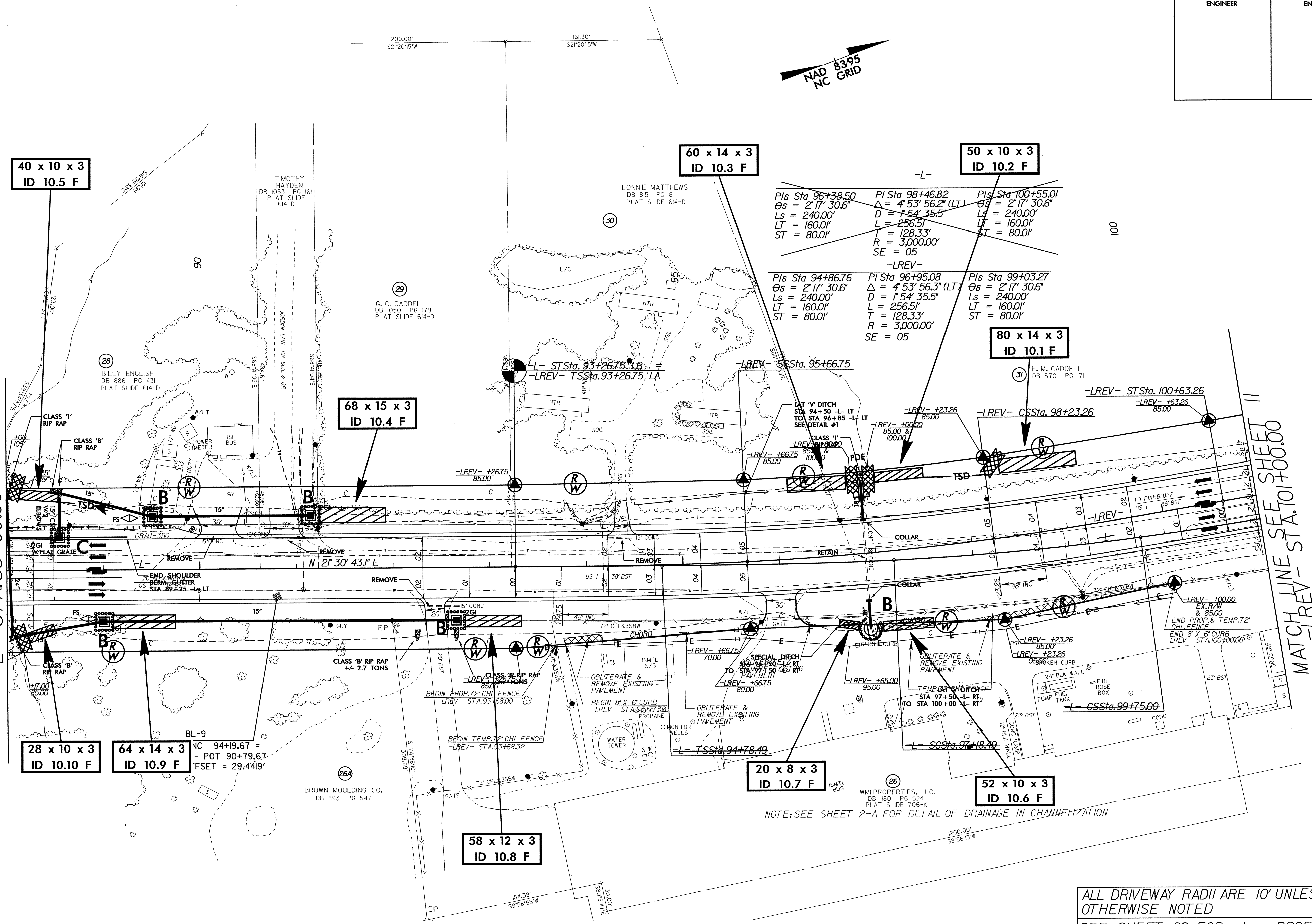
20-FEB-2008 15:18
G:\tipp\projects\2502a\env\environmental\design\2502a.ec-psd9.dgn
A:\HEN\24546

ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED
SEE SHEET 29 FOR -L- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
R-2502A	EC-34/CONST.10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCH LINE SEE SHEET 9
-L- STA. 88+00.00

MATCH LINE SEE SHEET
-LREV- STA. 100+00.00

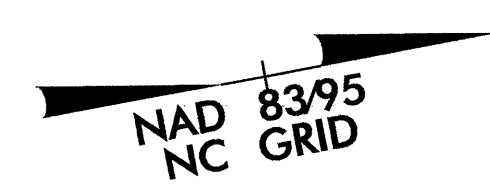


NOTE: SEE SHEET 2-A FOR DETAIL OF DRAINAGE IN CHANNELIZATION

ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED
SEE SHEET 29 FOR -L- PROFILE
SEE SHEET 29 FOR -LREV- PROFILE

20-FEB-2008 17:04
g:\t\p\projects\2502a\c\civil\environmental\design\2502a-ec-ps\h10.dgn
10:10:10 AM
AL:BNV214546

PROJECT REFERENCE NO. R-2502A	SHEET NO. EC-35/CONST.II
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



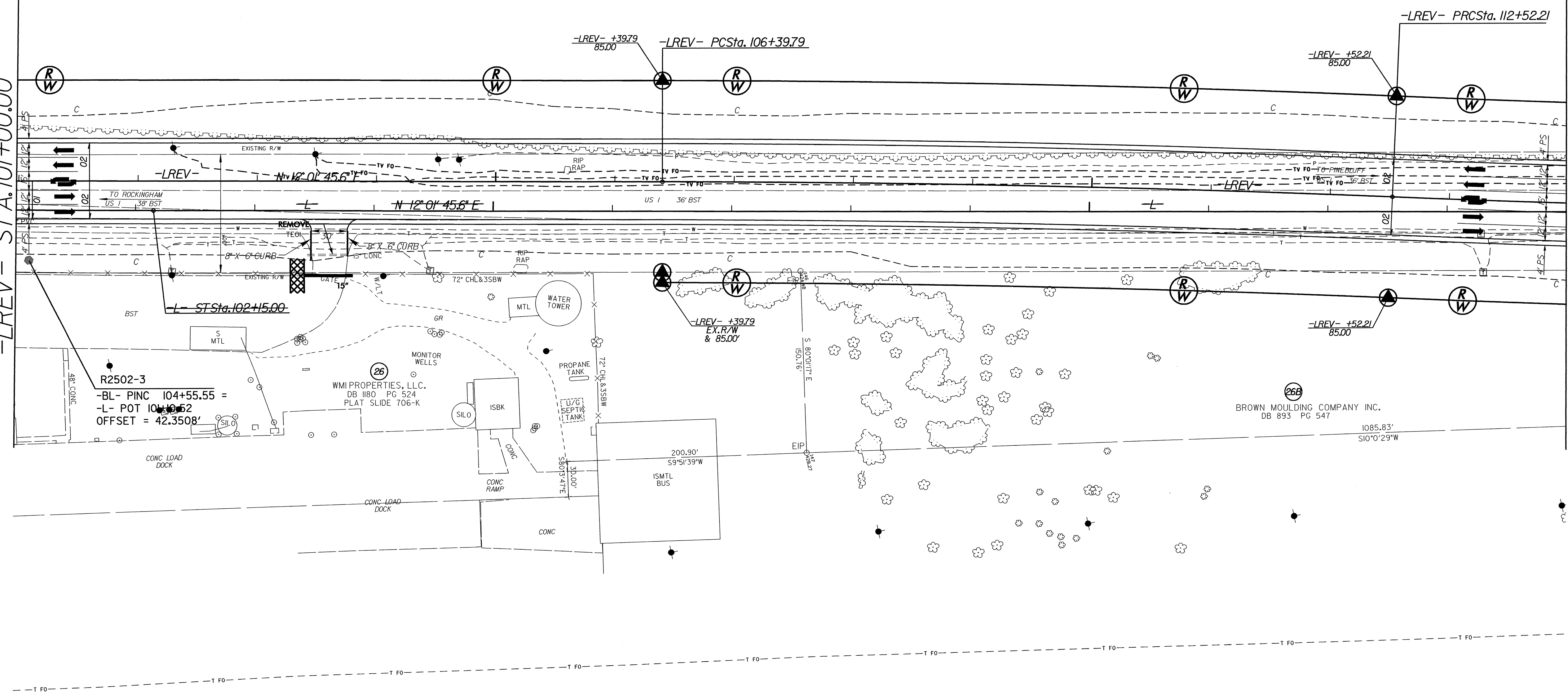
~~-L-~~
 PIs Sta 96+38.50 PI Sta 98+46.82 PIs Sta 100+55.01
 $\Delta = 2' 17' 30.6''$ $\Delta = 4' 53' 56.2''$ (LT) $\Delta = 2' 17' 30.6''$
 $Ls = 240.00'$ $D = 154' 35.5''$ $Ls = 240.00'$
 $LT = 160.01'$ $L = 256.31'$ $LT = 160.01'$
 $ST = 80.01'$ $T = 128.33'$ $ST = 80.01'$
 $R = 3,000.00'$ $SE = 05$

~~-LREV-~~
 PIs Sta 109+46.04 PIs Sta 115+58.45
 $\Delta = 2' 20' 21.3''$ (RT) $\Delta = 2' 20' 21.3''$ (LT)
 $D = 0' 22' 55.1''$ $D = 0' 22' 55.1''$
 $L = 612.41'$ $L = 612.41'$
 $T = 306.25'$ $T = 306.25'$
 $R = 15,000.00'$ $R = 15,000.00'$
 SE = NORMAL CROWN SE = NORMAL CROWN

H. M. CADDELL
 DB 570 PG 171

MATCH LINE SEE SHEET 10
 -LREV- STA. 101+00.00

MATCH LINE SEE SHEET 12
 -LREV- STA. 114+00.00



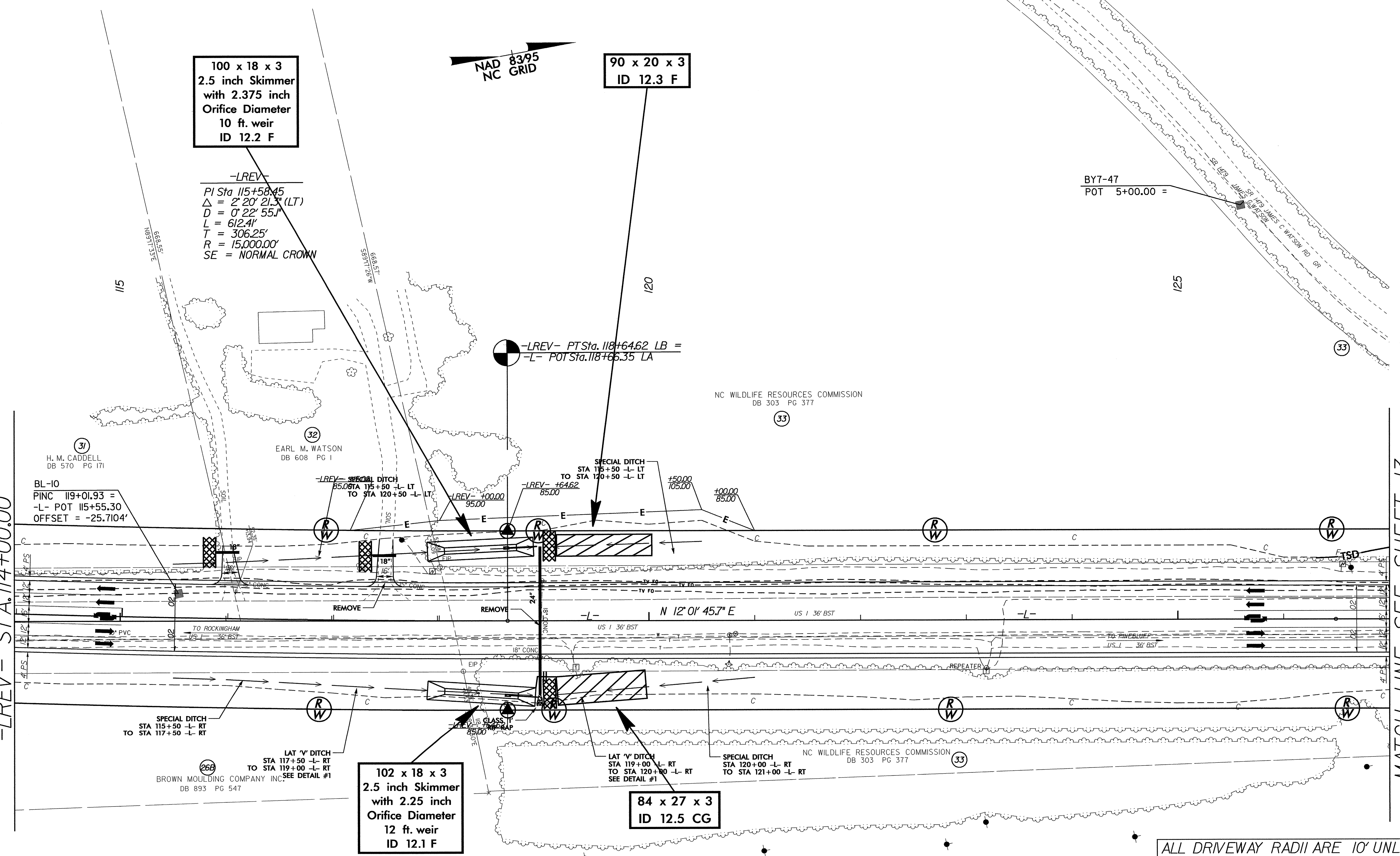
ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED
 SEE SHEET 30 FOR -LREV- PROFILE

21-FEB-2008 10:32
 g:\tip\projects\2502a\env\formntal\design\2502a.ec-psht1.dgn
 leoniferrish AT REV 21546

PROJECT REFERENCE NO. R-2502A	SHEET NO. EC-36/CONST.12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCH LINE SEE SHEET 11
-LREV- STA. 114+00.00

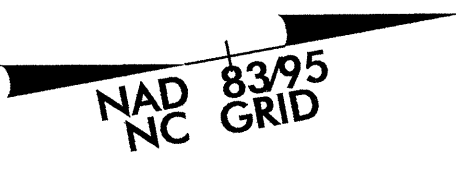
MATCH LINE SEE SHEET 13
-L- STA. 127+00.00



ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED
SEE SHEET 30 FOR -L- PROFILE
SEE SHEET 30 FOR -LREV- PROFILE

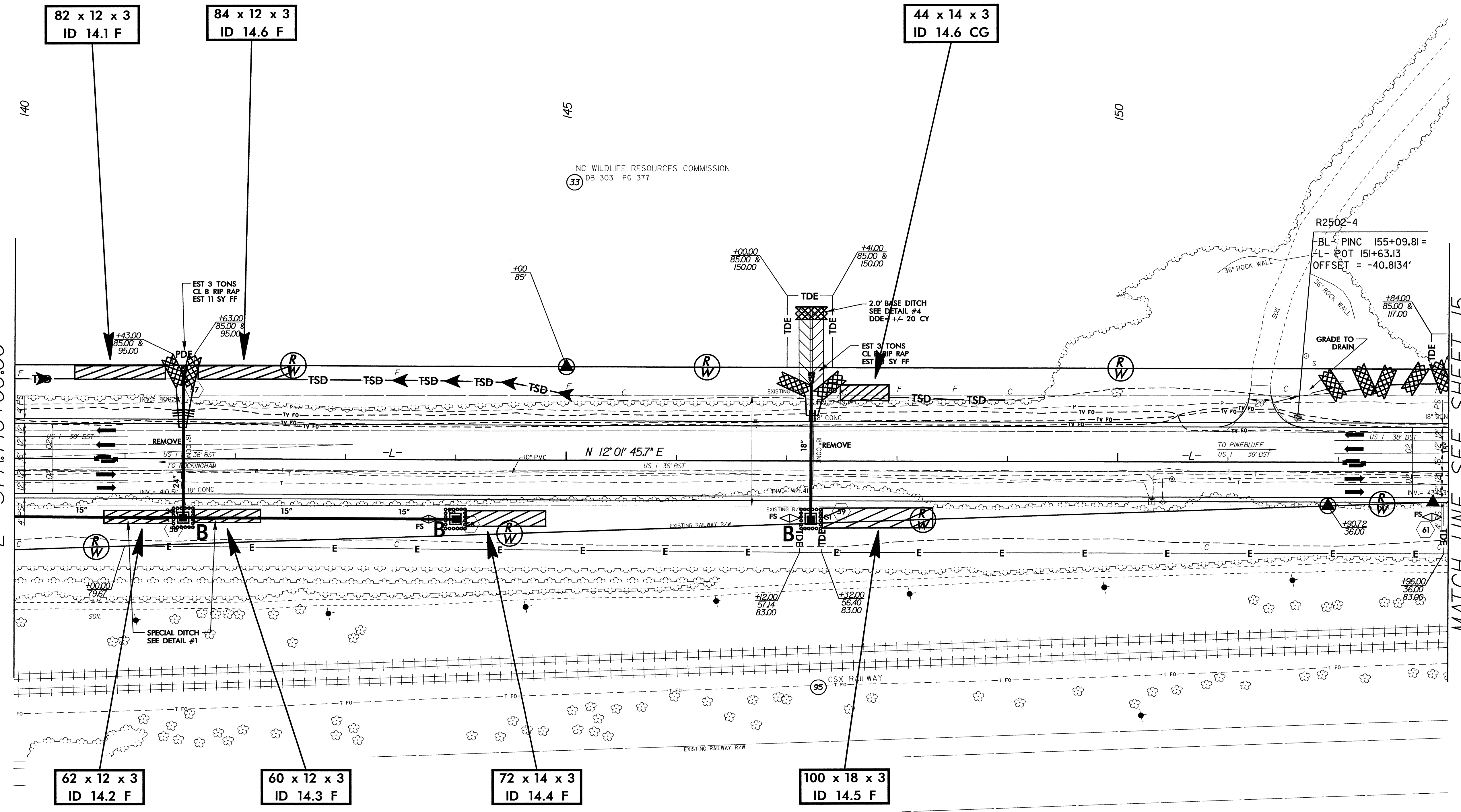
21-FEB-2008 16:36
g:\t\p\p\o\jects-r-2502a\enviromental\design\r-2502a-ec-psn12.dgn
tennifer@ish AT FENW214546

PROJECT REFERENCE NO.		SHEET NO.	
R-2502A		EC-38/CONST.14	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



MATCH LINE SEE SHEET 13
-L- STA. 140+00.00

MATCH LINE SEE SHEET 15
-L- STA. 153+00.00



ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED
SEE SHEET 31 FOR -L- PROFILE

25-FEB-2008 09:39
g:\tippro\projects\2502a\environmental\design\2502a_ec_psh14.dgn
leannifer@csb AT REN214546

PROJECT REFERENCE NO. R-2502A	SHEET NO. EC-39/CONST.15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/95
NC GRID

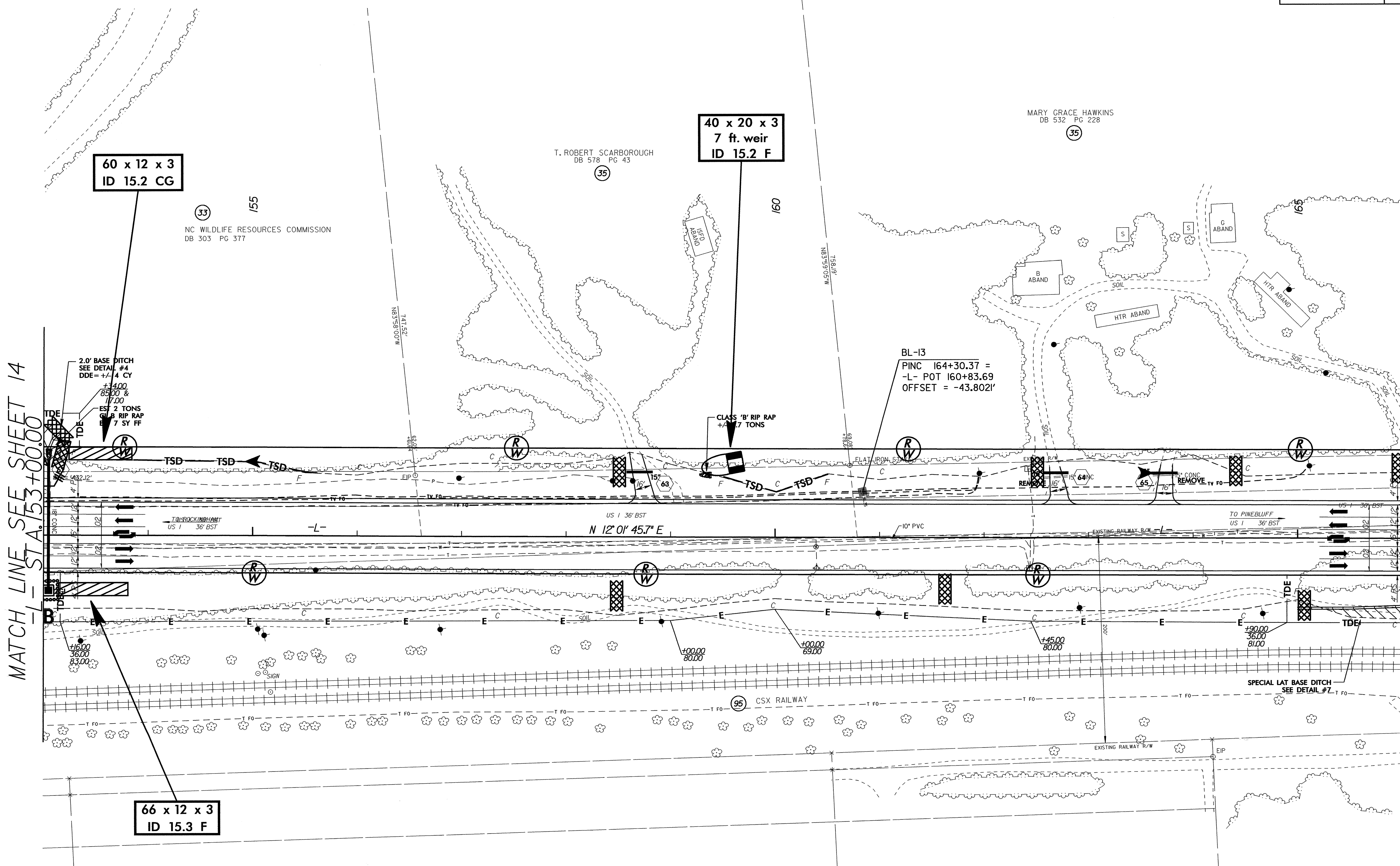
MATCH LINE SEE SHEET 14
-L- STA. 153+00.00

MATCH LINE SEE SHEET 16
-L- STA. 166+00.00

60 x 12 x 3
ID 15.2 CG

40 x 20 x 3
7 ft. weir
ID 15.2 F

66 x 12 x 3
ID 15.3 F



BL-13
PINC 164+30.37 =
-L- POT 160+83.69
OFFSET = -43.8021'

2.0' BASE DITCH
SEE DETAIL #4
DDE = +1.4 CY
+1.400
85.00 &
17.00
EST 2 TONS
CL. B RIP RAP
7 SY FF

CLASS 'B' RIP RAP
+1.47 TONS

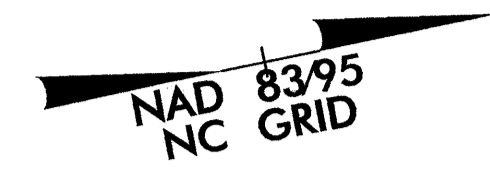
SPECIAL LAT BASE DITCH
SEE DETAIL #7

25-FEB-2008 16:26
9A:\tpp\project\2502\commental\design\2502a.ec-psht15.dgn
15

THOMAS L. TIGHE
DB 984 PG 258

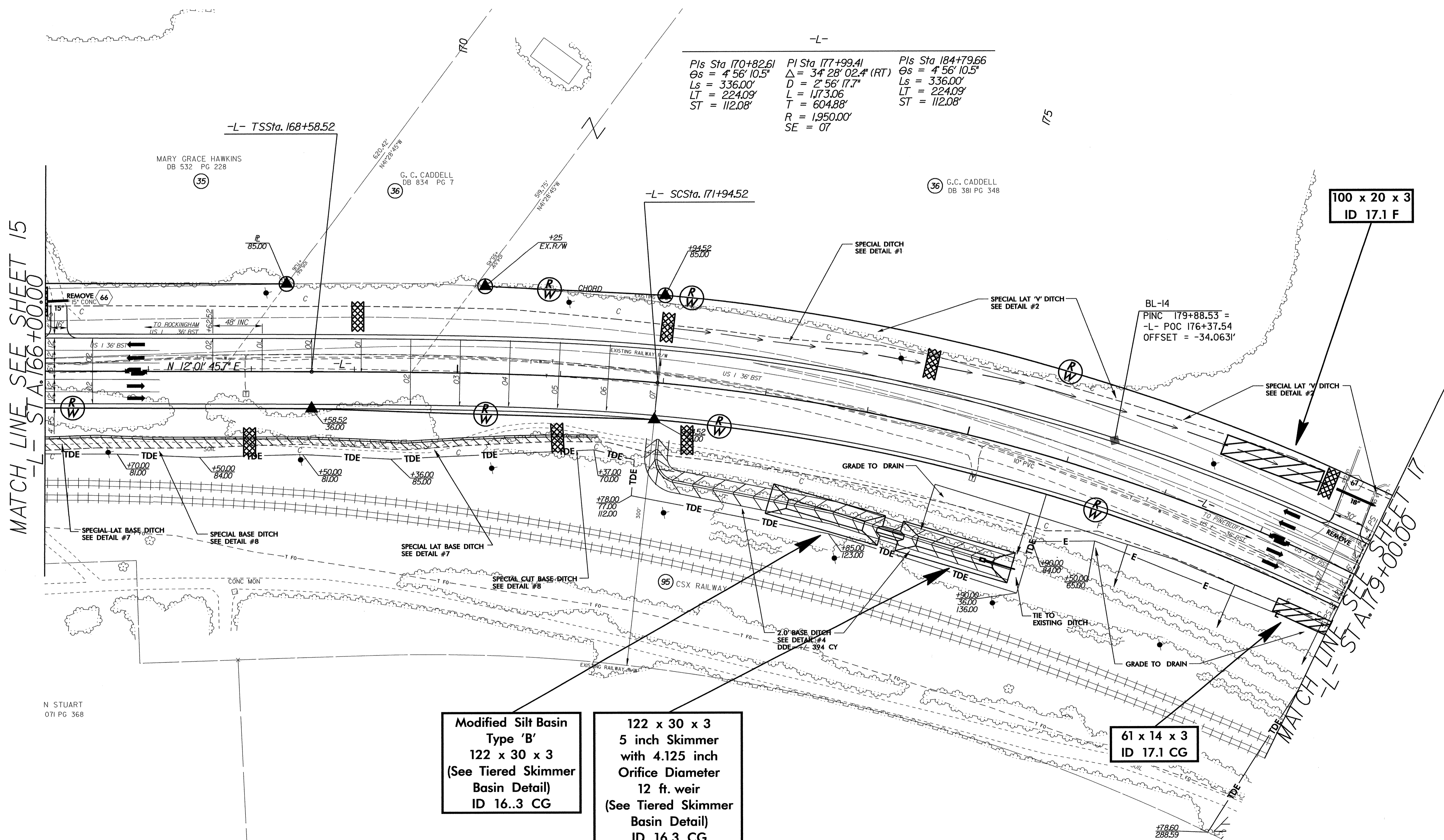
ALL DRIVEWAY RADII ARE 10' UNLESS
OTHERWISE NOTED
SEE SHEET 32 FOR -L- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
R-2502A	EC-40/CONST.16
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



-L-

PIs Sta 170+82.61	PI Sta 177+99.41	PIs Sta 184+79.66
$\Theta_s = 4^\circ 56' 10.5''$	$\Delta = 34^\circ 28' 02.4''$ (RT)	$\Theta_s = 4^\circ 56' 10.5''$
LS = 336.00'	D = 2' 56' 17.7"	LS = 336.00'
LT = 224.09'	L = 1173.06'	LT = 224.09'
ST = 112.08'	T = 604.88'	ST = 112.08'
	R = 1,950.00'	
	SE = 07	



MATCH LINE SEE SHEET 15
-L- STA. 166+00.00

MATCH LINE SEE SHEET 17
-L- STA. 179+00.00

**Modified Silt Basin
Type 'B'
122 x 30 x 3
(See Tiered Skimmer
Basin Detail)
ID 16.3 CG**

**122 x 30 x 3
5 inch Skimmer
with 4.125 inch
Orifice Diameter
12 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 16.3 CG**

**61 x 14 x 3
ID 17.1 CG**

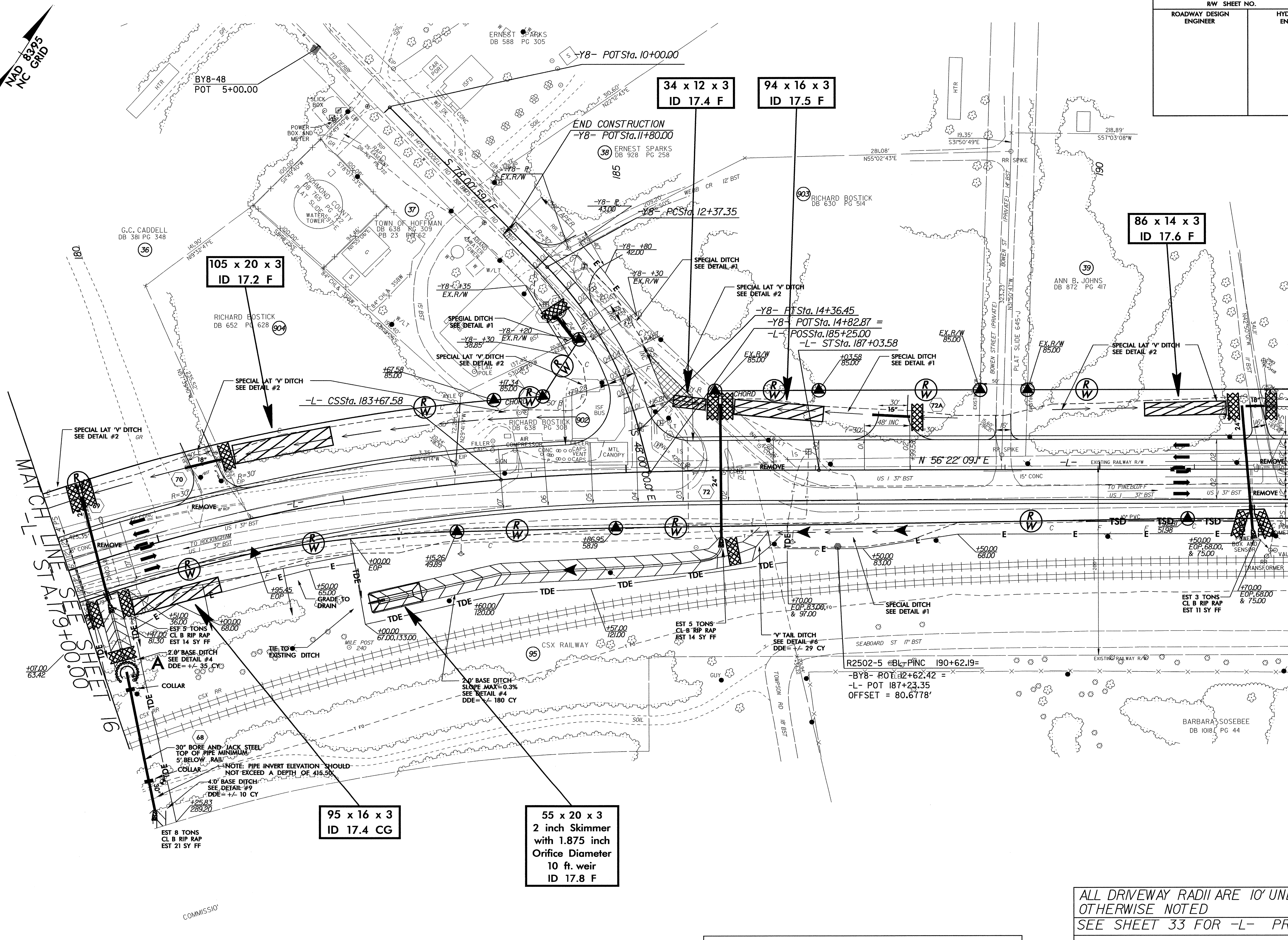
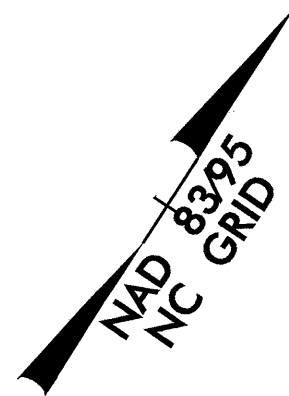
**100 x 20 x 3
ID 17.1 F**

ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED
SEE SHEET 32 FOR -L- PROFILE

25-FEB-2008 16:33
G:\tpp\projects\2502a\environmental\design\2502a_ec_psh16.dgn
lennf@parish

N. STUART
071 PG 368

PROJECT REFERENCE NO. R-2502A	SHEET NO. EC-41/CONST.17
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



26-FEB-2008 16:05
 G:\projects\2502a\environmental\design\2502a.ec_psh17.dgn
 psh17.dgn
 AT: BRN214546

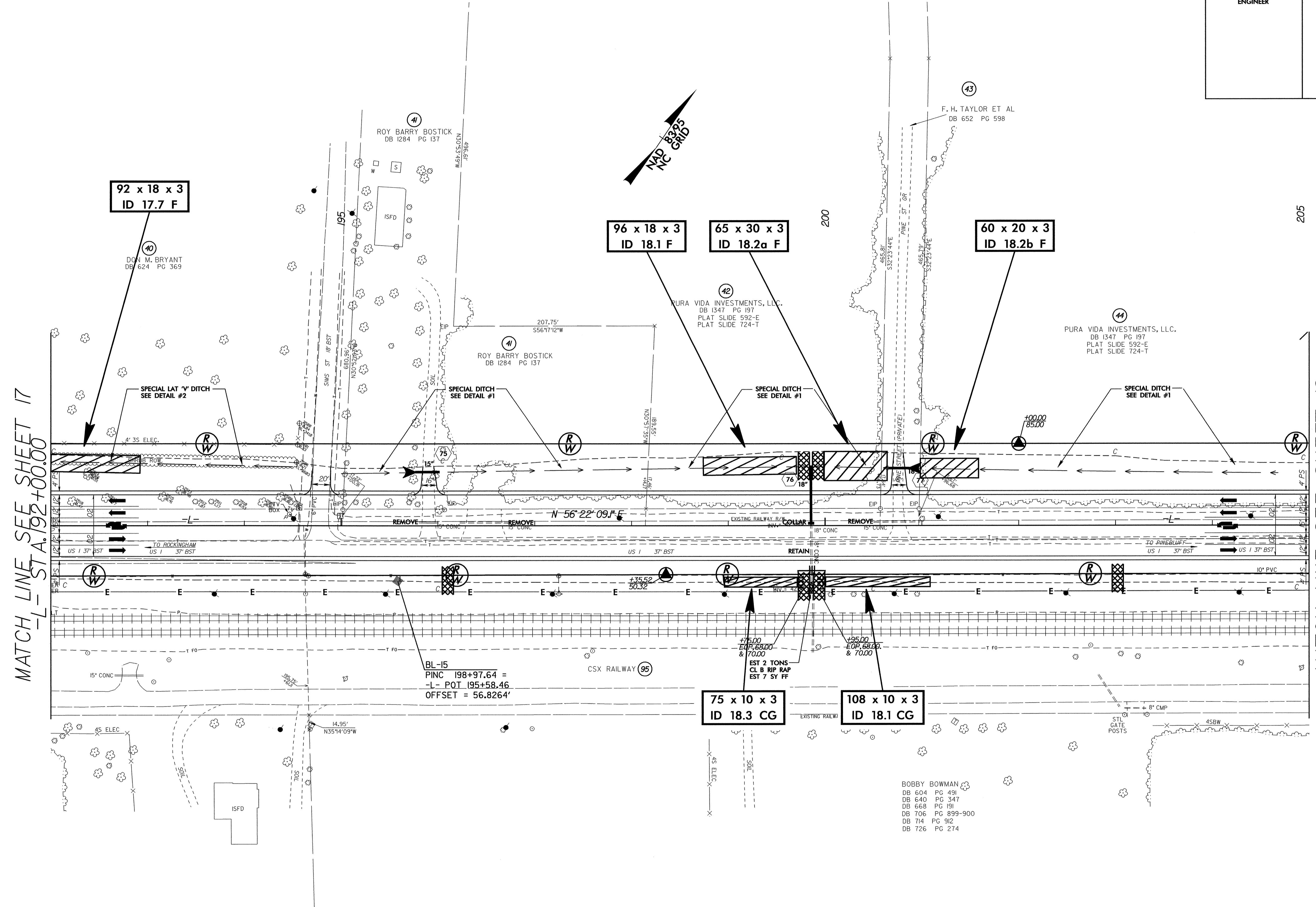
SEE SHEET 2-D FOR R/W ALIGNMENT DATA

ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED
 SEE SHEET 33 FOR -L- PROFILE
 SEE SHEET 39 FOR -Y8- PROFILE

PROJECT REFERENCE NO. R-2502A	SHEET NO. EC-42/CONST.18
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCH LINE SEE SHEET 17
-L- STA. 192+00.00

MATCH LINE SEE SHEET 19
-L- STA. 205+00.00



BL-15
PINC 198+97.64 =
-L- POT 195+58.46
OFFSET = 56.8264'

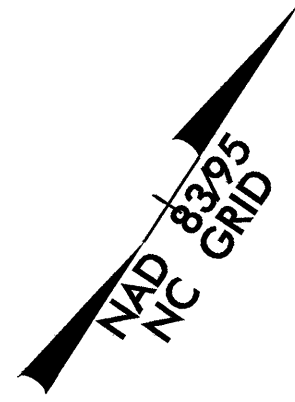
BOBBY BOWMAN
DB 604 PG 491
DB 640 PG 347
DB 668 PG 191
DB 706 PG 899-900
DB 714 PG 912
DB 726 PG 274

SEE SHEET 2-E FOR R/W ALIGNMENT DATA

ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED
SEE SHEET 33 FOR -L- PROFILE

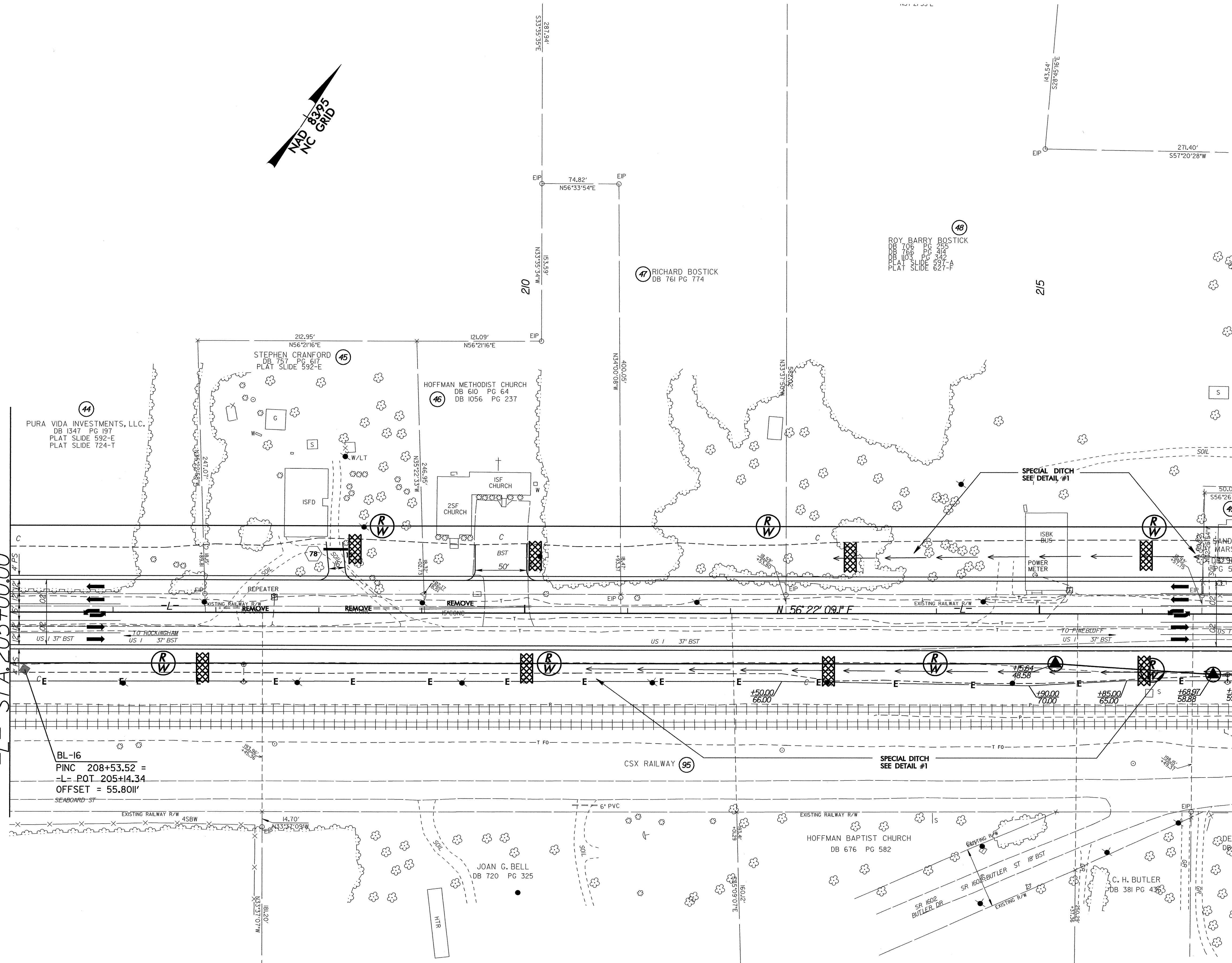
26-FEB-2008 16:41
G:\t\p\o\ec\18-1\2502a\env\rc\m\design\2502a.ec_psh18.dgn
18-1-REV21446

PROJECT REFERENCE NO. <i>R-2502A</i>	SHEET NO. <i>EC-43/CONST.19</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCH LINE SEE SHEET 18
-L- STA. 205+00.00

MATCH LINE SEE SHEET 20
-L- STA. 217+00.00



BL-16
PINC 208+53.52 =
-L- P.O.T. 205+14.34
OFFSET = 55.8011'

SEE SHEET 2-F FOR R/W ALIGNMENT DATA

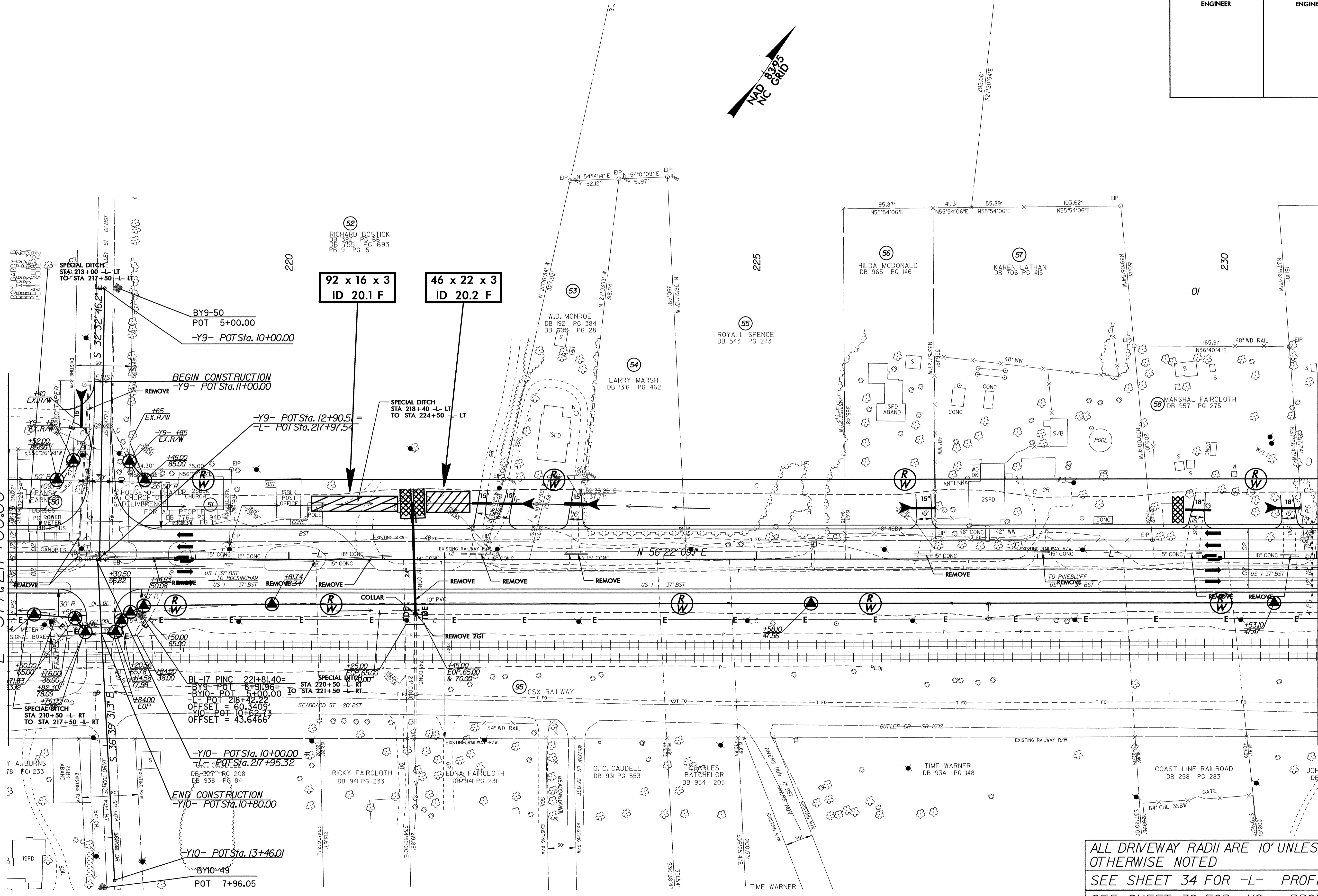
ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED
SEE SHEET 34 FOR -L- PROFILE

07-MAR-2008 09:31
c:\hopper\projects\2502a\environmental\design\2502a.ec.psh19.dgn
14:45

PROJECT REFERENCE NO. R-2502A	SHEET NO. EC-44/CONST.20
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCH LINE SEE SHEET 19
-L- STA. 217+00.00

MATCH LINE SEE SHEET 21
-L- STA. 231+00.00

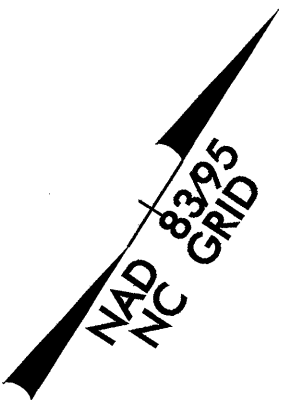
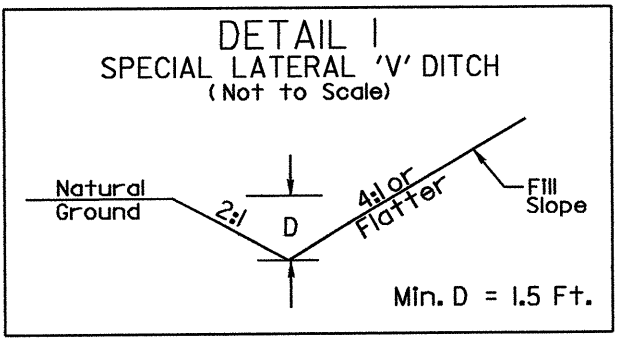


SEE SHEET 2-G FOR R/W ALIGNMENT DATA

ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED
SEE SHEET 34 FOR -L- PROFILE
SEE SHEET 39 FOR -Y9- PROFILE
SEE SHEET 39 FOR -Y10- PROFILE

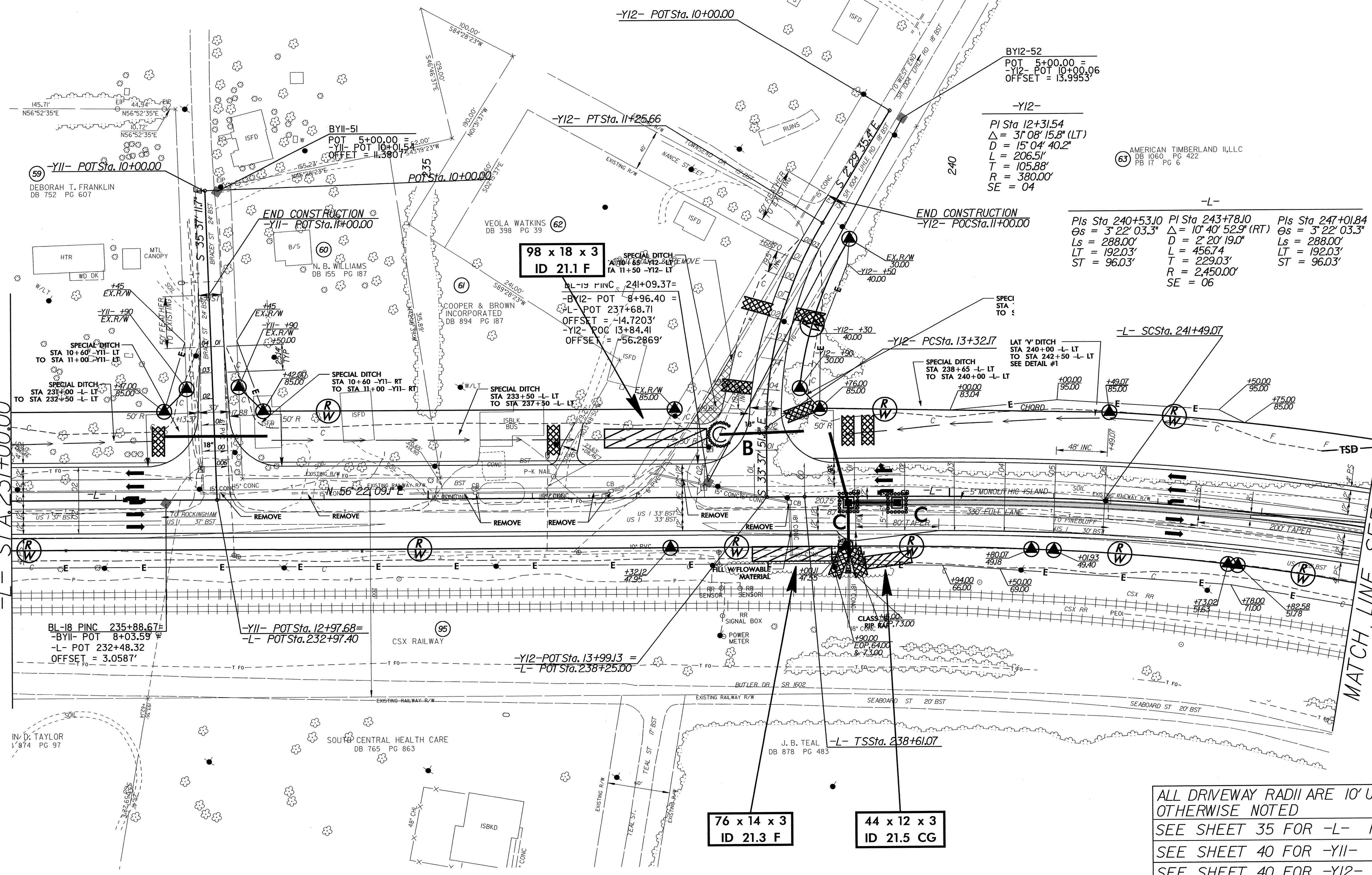
03-MAR-2008 09:35
g:\tip\projects\1-r-2502a\env\form\mental\design\1-r-2502a-ec.psh.20.dgn
lennier\ecash AT R/W214546

PROJECT REFERENCE NO. R-2502A	SHEET NO. EC-45/CONST.21
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCH LINE SEE SHEET 20
-L- STA. 231+00.00

MATCH LINE SEE SHEET 22
-L- STA. 244+00.00



BY12-52
 POT 5+00.00 =
 -Y12- POT 10+00.06
 OFFSET = 13.9953'

-Y12-
 PI Sta 12+31.54
 $\Delta = 31^{\circ}08'15.8"$ (LT)
 $D = 15^{\circ}04'40.2"$
 $L = 206.51'$
 $T = 105.88'$
 $R = 380.00'$
 $SE = 04$

-L-
 PIs Sta 240+53.10 PI Sta 243+78.10 PIs Sta 247+01.84
 $\Theta_s = 3^{\circ}22'03.3"$ $\Delta = 10^{\circ}40'52.9"$ (RT) $\Theta_s = 3^{\circ}22'03.3"$
 $L_s = 288.00'$ $D = 2^{\circ}20'19.0"$ $L_s = 288.00'$
 $LT = 192.03'$ $L = 456.74'$ $LT = 192.03'$
 $ST = 96.03'$ $T = 229.03'$ $ST = 96.03'$
 $R = 2,450.00'$
 $SE = 06$

BL-18 PINC 235+88.67'
 -BY11- POT 8+03.59'
 -L- POT 232+48.32'
 OFFSET = 3.0587'

-Y11- POT Sta. 12+97.68 =
 -L- POT Sta. 232+97.40

-Y12- POT Sta. 13+99.13 =
 -L- POT Sta. 238+25.00

-L- TSS Sta. 238+61.07

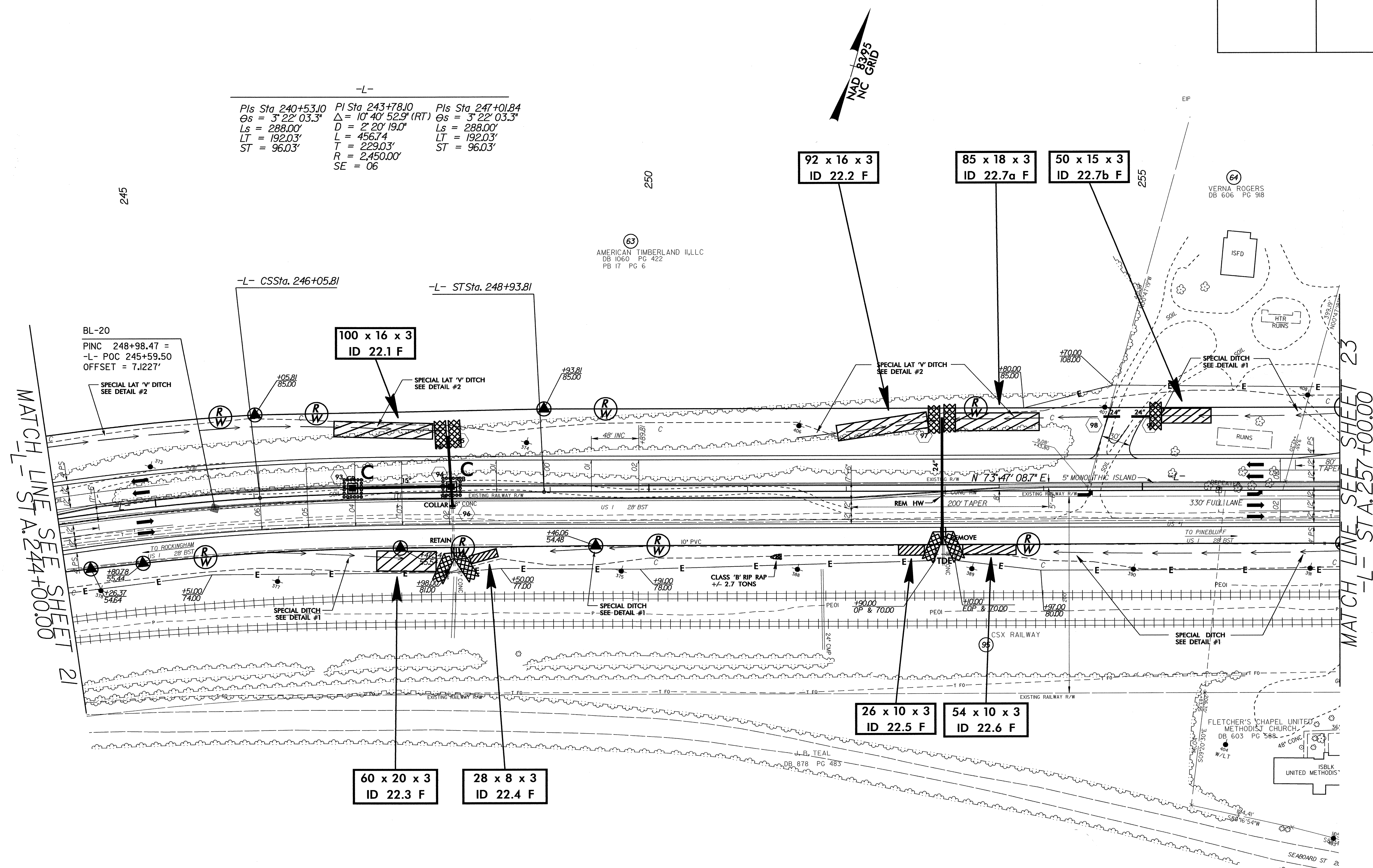
ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED
 SEE SHEET 35 FOR -L- PROFILE
 SEE SHEET 40 FOR -Y11- PROFILE
 SEE SHEET 40 FOR -Y12- PROFILE
 SEE SHEET 2-H FOR R/W ALIGNMENT DATA

03-MAR-2008 09:39
 G:\t\p\p\objects\2502a\enviromental\design\2502a-ec.psh21.dgn
 Jennifer.Pearsh 61 REV 21/4/46

PROJECT REFERENCE NO. R-2502A	SHEET NO. EC-46/CONST.22
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L-

Pls Sta 240+53.10	Pls Sta 243+78.10	Pls Sta 247+01.84
$\Theta_s = 3^\circ 22' 03.3''$	$\Delta = 10^\circ 40' 52.9''$ (RT)	$\Theta_s = 3^\circ 22' 03.3''$
$L_s = 288.00'$	$D = 2^\circ 20' 19.0''$	$L_s = 288.00'$
$LT = 192.03'$	$L = 456.74'$	$LT = 192.03'$
$ST = 96.03'$	$T = 229.03'$	$ST = 96.03'$
	$R = 2,450.00'$	
	$SE = 06$	



MATCH LINE SEE SHEET 21
-L- STA. 244+00.00

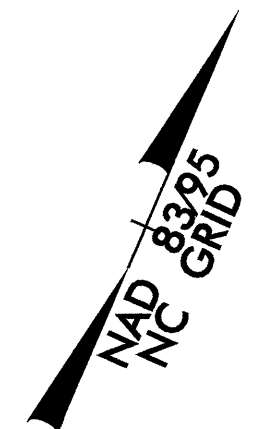
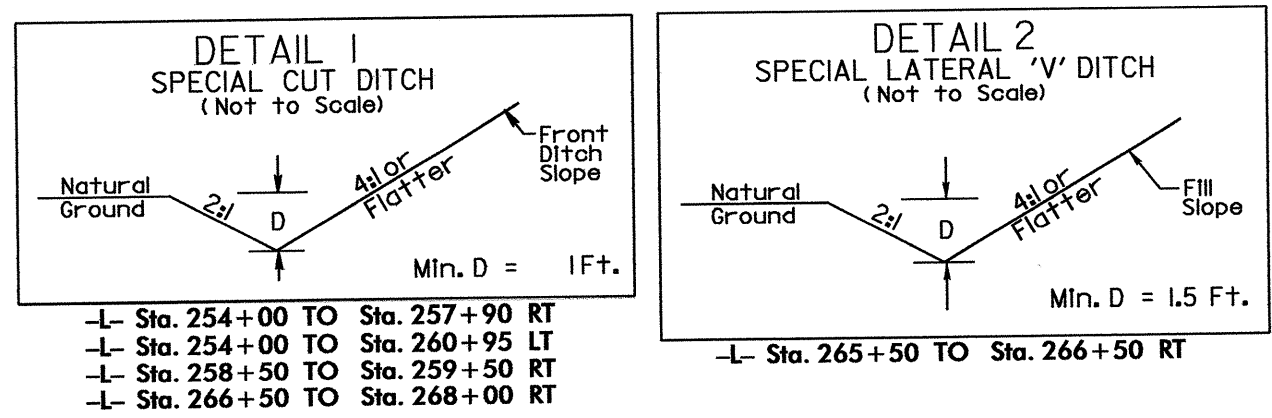
MATCH LINE SEE SHEET 23
-L- STA. 257+00.00

SEE SHEET 2-1 FOR R/W ALIGNMENT DATA

ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED
SEE SHEET 35 FOR -L- PROFILE

28-FEB-2008 11:48
G:\t\p\project\2502a\environmental\design\2502a-ec-pah22.dgn
LENNY.FARRAR@SH

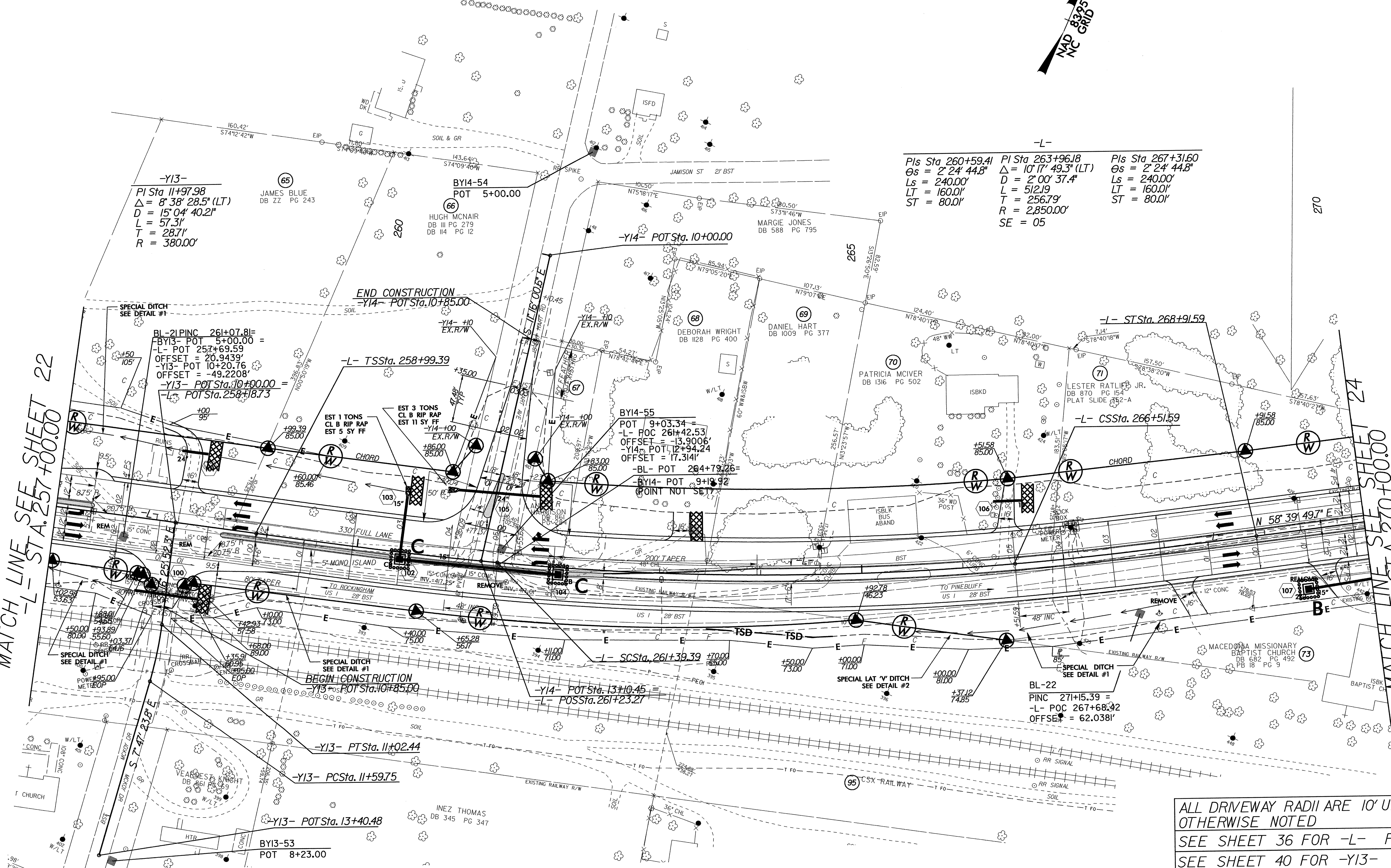
PROJECT REFERENCE NO.	SHEET NO.
R-2502A	EC-47/CONST.23
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



-L-
 PIs Sta 260+59.41 PI Sta 263+96.18 PIs Sta 267+31.60
 $\Delta s = 2' 24' 44.8''$ $\Delta = 10' 17' 49.3''$ (LT) $\Delta s = 2' 24' 44.8''$
 $Ls = 240.00'$ $D = 2' 00' 37.4''$ $Ls = 240.00'$
 $LT = 160.01'$ $L = 512.19'$ $LT = 160.01'$
 $ST = 80.01'$ $T = 256.79'$ $ST = 80.01'$
 $R = 2,850.00'$
 $SE = 05$

MATCH LINE SEE SHEET 22
 -L- STA. 257+00.00

MATCH LINE SEE SHEET 24
 -L- STA. 270+00.00

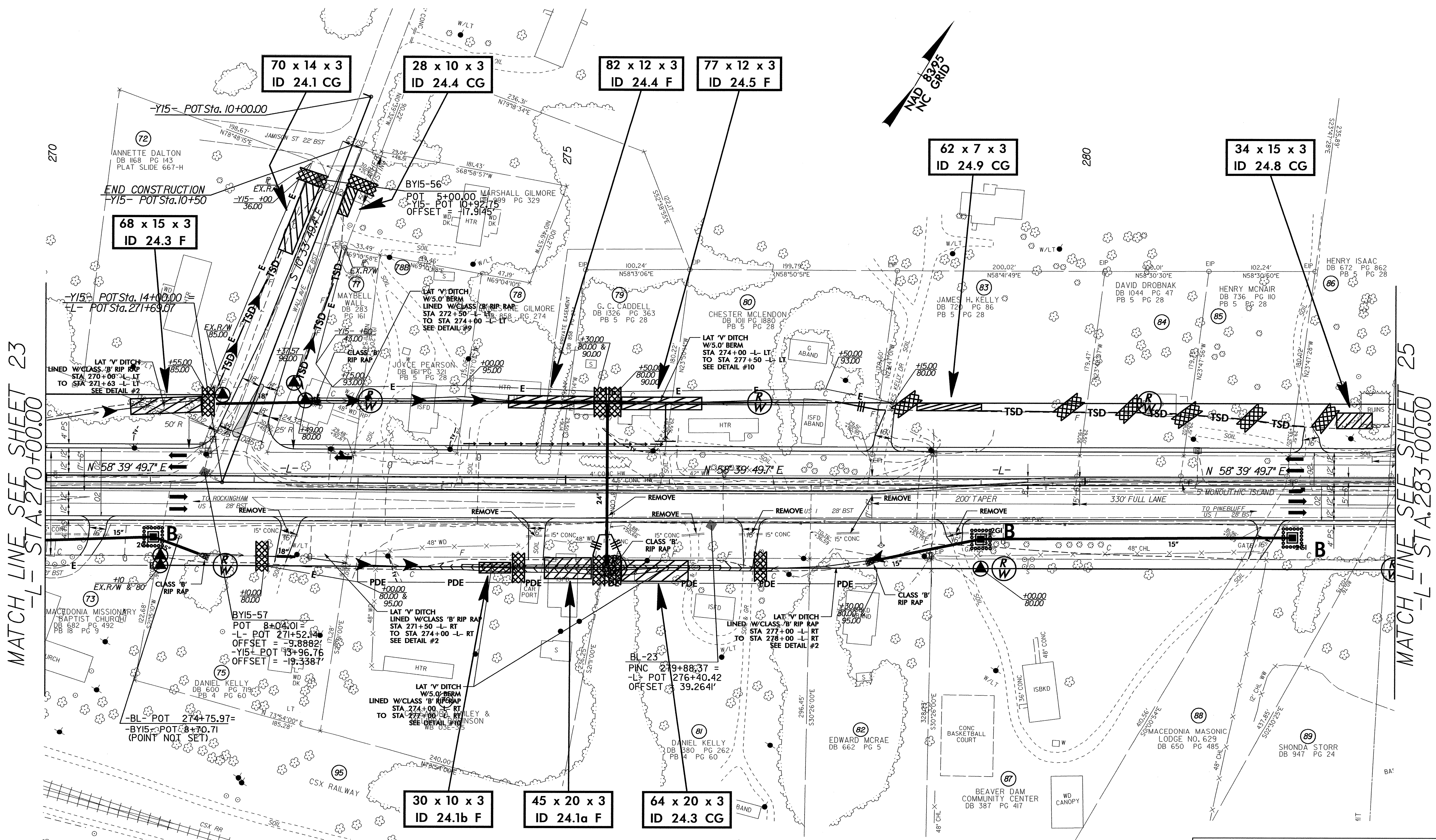
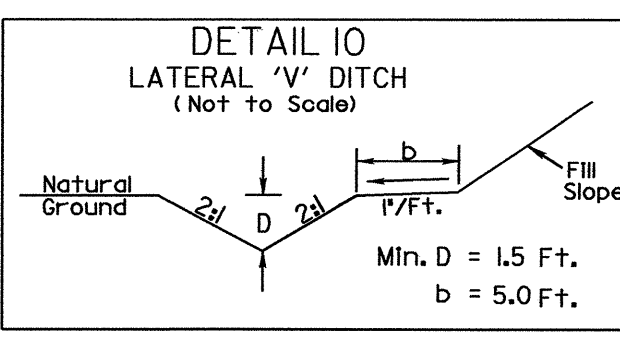
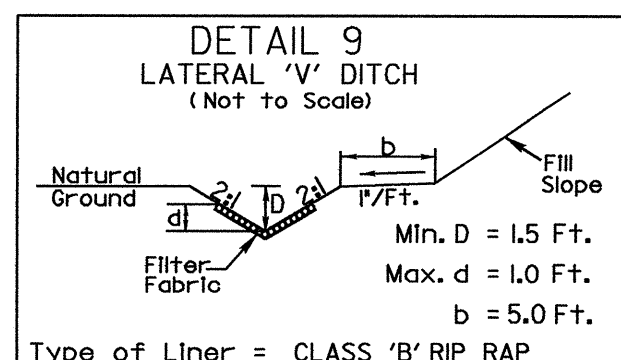
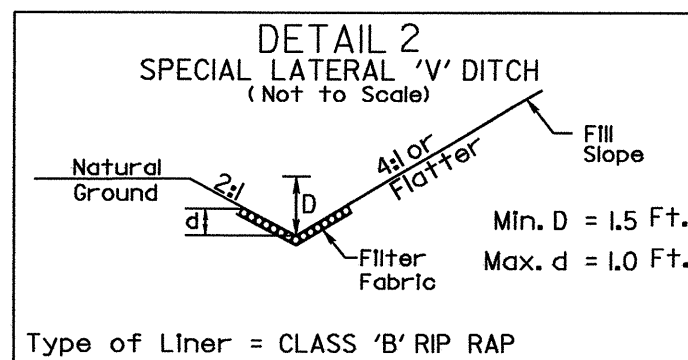


ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED
 SEE SHEET 36 FOR -L- PROFILE
 SEE SHEET 40 FOR -Y13- PROFILE
 SEE SHEET 40 FOR -Y14- PROFILE

SEE SHEET 2-J FOR R/W ALIGNMENT DATA

28-FEB-2008 14:29
 G:\projects\2502a\gov\formal\design\2502a.ec.psh.23.dgn
 AutoCAD LT 2004

PROJECT REFERENCE NO.	SHEET NO.
R-2502A	EC-48/CONST.24
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

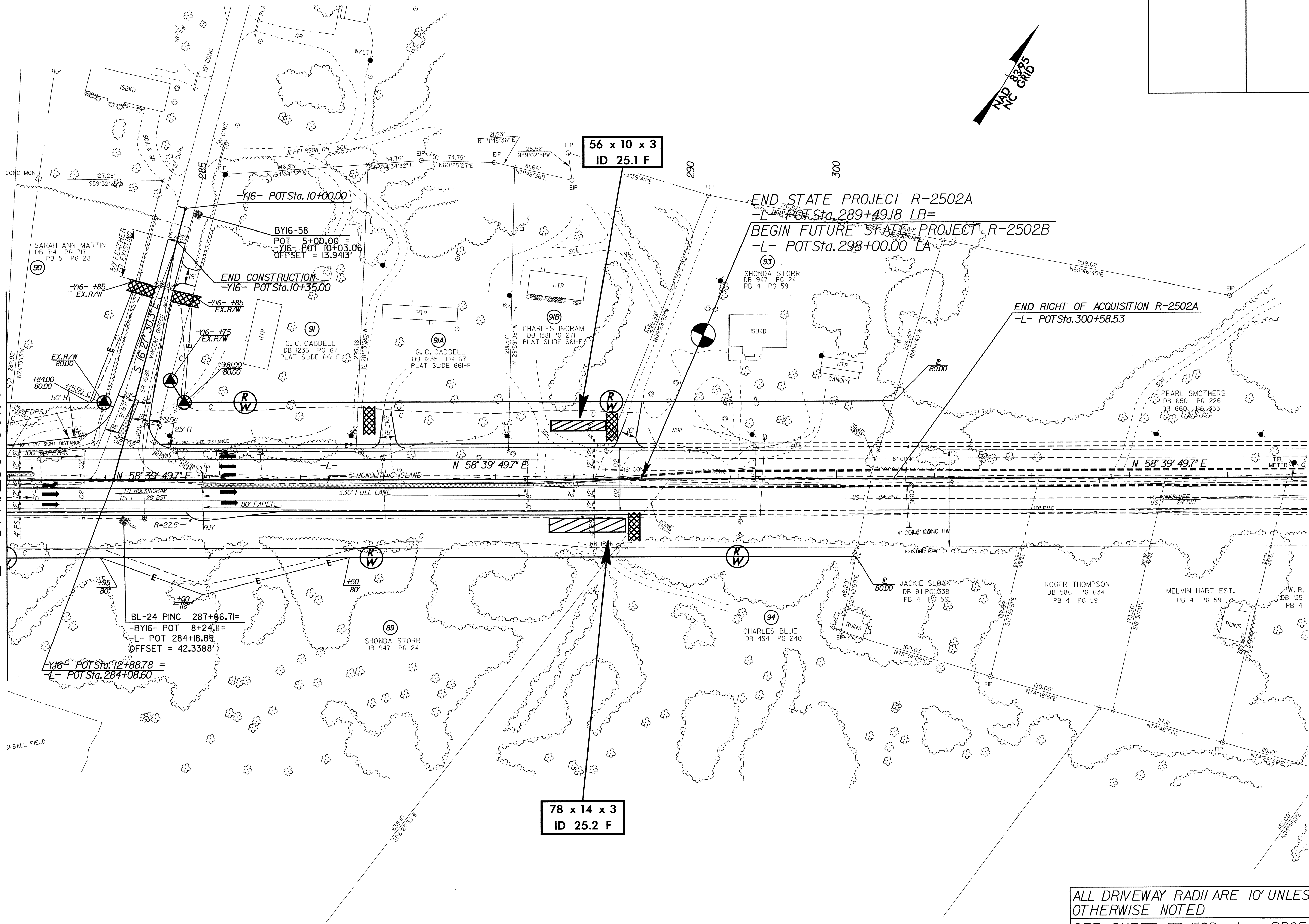


ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED
 SEE SHEET 36 FOR -L- PROFILE
 SEE SHEET 40 FOR -Y15- PROFILE

29-FEB-2008 12:04
 g:\tip\projects\2502a\env\formal\design\r-2502a-ec.psh24.dgn
 41 REN214446

PROJECT REFERENCE NO.	SHEET NO.
R-2502A	EC-49/CONST.25
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCH LINE SEE SHEET 24
-L- STA. 283+00.00



56 x 10 x 3
ID 25.1 F

78 x 14 x 3
ID 25.2 F

END STATE PROJECT R-2502A
-L- POT Sta. 289+49.18 LB=
BEGIN FUTURE STATE PROJECT R-2502B
-L- POT Sta. 298+00.00 LA

END RIGHT OF ACQUISITION R-2502A
-L- POT Sta. 300+58.53

BL-24 PINC 287+66.71=
-Y16- POT 8+24.11=
-L- POT 284+18.89
OFFSET = 42.3388'

-Y16- POT Sta. 12+88.78 =
-L- POT Sta. 284+08.60

END CONSTRUCTION
-Y16- POT Sta. 10+35.00

BY16-58
POT 5+00.00 =
-Y16- POT 10+03.06
OFFSET = 13.9413'

ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED
SEE SHEET 37 FOR -L- PROFILE
SEE SHEET 40 FOR -Y16- PROFILE

20 FEB 2008 12:09
S:\projects\2502a\environmental\design\2502a.ec_psh25.dgn
S:\projects\2502a\environmental\design\2502a.ec_psh25.dgn
S:\projects\2502a\environmental\design\2502a.ec_psh25.dgn