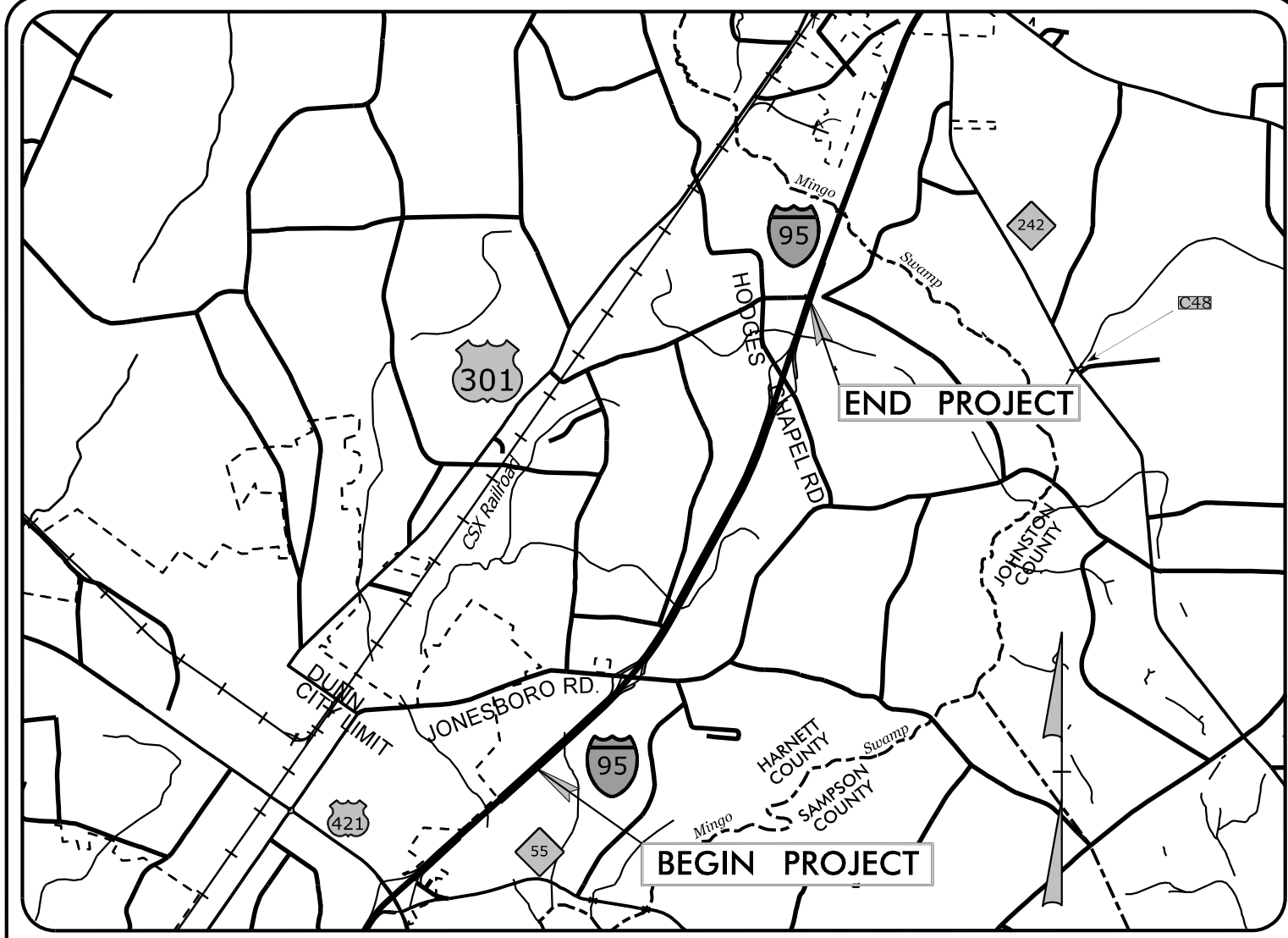


**TIP PROJECT: I-5883**

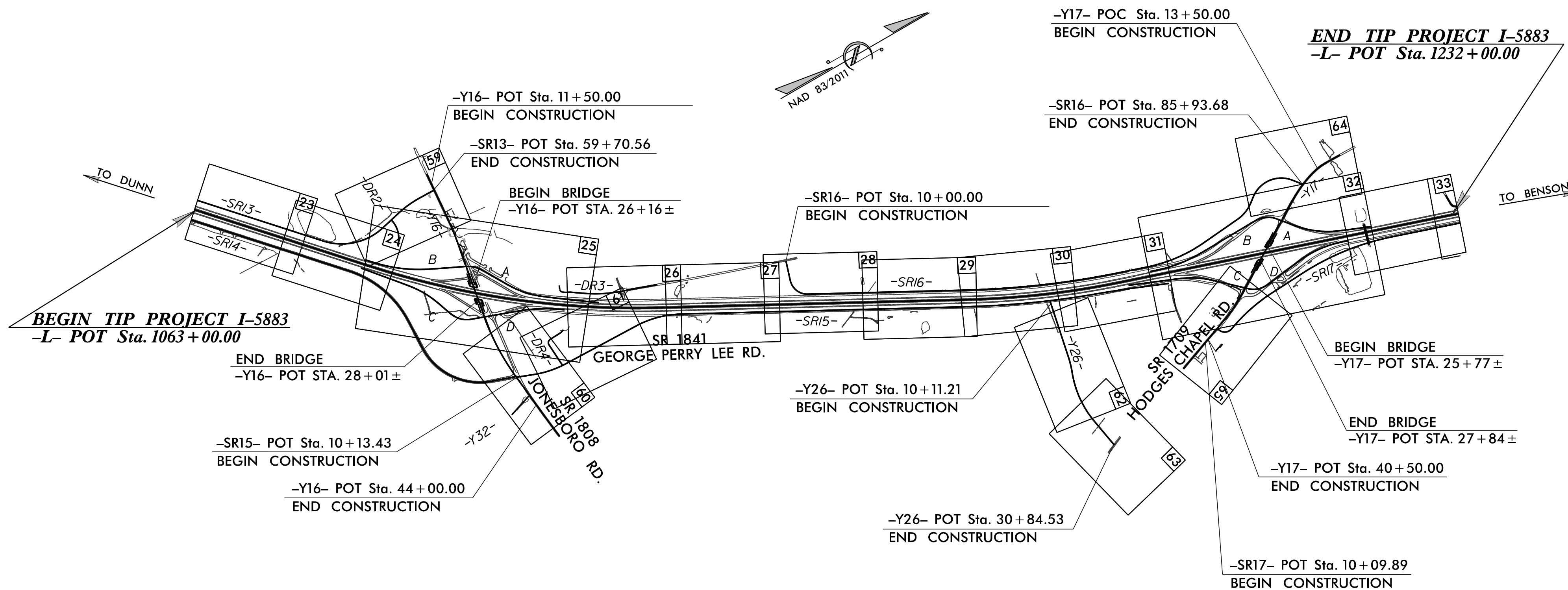
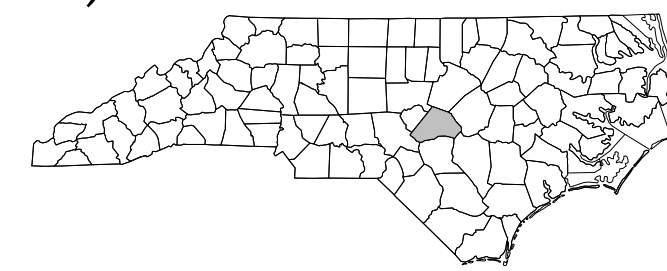


**VICINITY MAP**  
NOT TO SCALE

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

**LOCATION: IMPROVE I-95 INTERCHANGES AT SR 1808 (JONESBORO ROAD)  
(EXIT 75) AND SR 1709 (HODGES CHAPEL ROAD) (EXIT 77).**

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

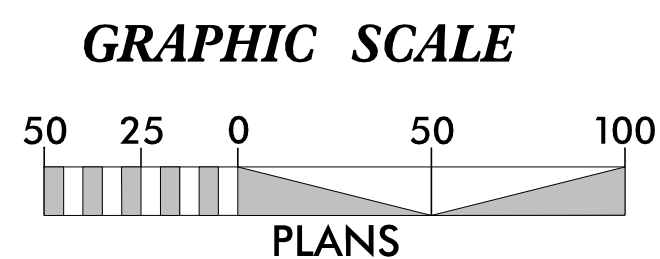


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5883	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
53083.1.1	NHPP-0095(033)74	P.E.	
53083.2.2	NHPP-0095(033)74	RAW & UTIL.	

**EROSION AND SEDIMENT CONTROL MEASURES**

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	TSF
1606.01	Special Sediment Control Fence	SSCF
1622.01	Temporary Berms and Slope Drains	TBSD
1630.02	Silt Basin Type B	SB
1633.01	Temporary Rock Silt Check Type-A	TRSCA
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	TRSCA-PAM
1633.02	Temporary Rock Silt Check Type-B	TRSCB
	Wattle / Coir Fiber Wattle	W/CFW
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	W/CFW-PAM
1634.01	Temporary Rock Sediment Dam Type-A	TRSDA
1634.02	Temporary Rock Sediment Dam Type-B	TRSDB
1635.01	Rock Pipe Inlet Sediment Trap Type-A	RPISTRA
1635.02	Rock Pipe Inlet Sediment Trap Type-B	RPISTRB
1630.04	Stilling Basin	SB
1630.06	Special Stilling Basin	SSB
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	SKB
	Tiered Skimmer Basin	TSKB
	Infiltration Basin	IB

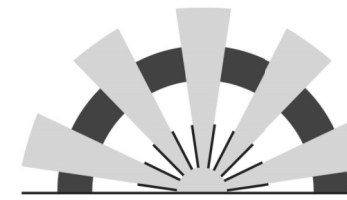
THIS PROJECT CONTAINS  
EROSION CONTROL PLANS  
FOR CLEARING AND  
GRUBBING PHASE OF  
CONSTRUCTION.



**THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH  
THE APPLICABLE REGULATIONS SET FORTH BY THE NCG-010000  
GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019  
AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF  
ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.**

Prepared in the Office of:  
**SUNGATE DESIGN GROUP, P.A.**

905 JONES FRANKLIN ROAD  
RALEIGH, NORTH CAROLINA 27606  
TEL (919) 859-2243  
ENG FIRM LICENSE NO. C-890



Designed by:

**MATTHEW C. EDWARDS, EI**      3992  
NAME      LEVEL III CERTIFICATION NO.

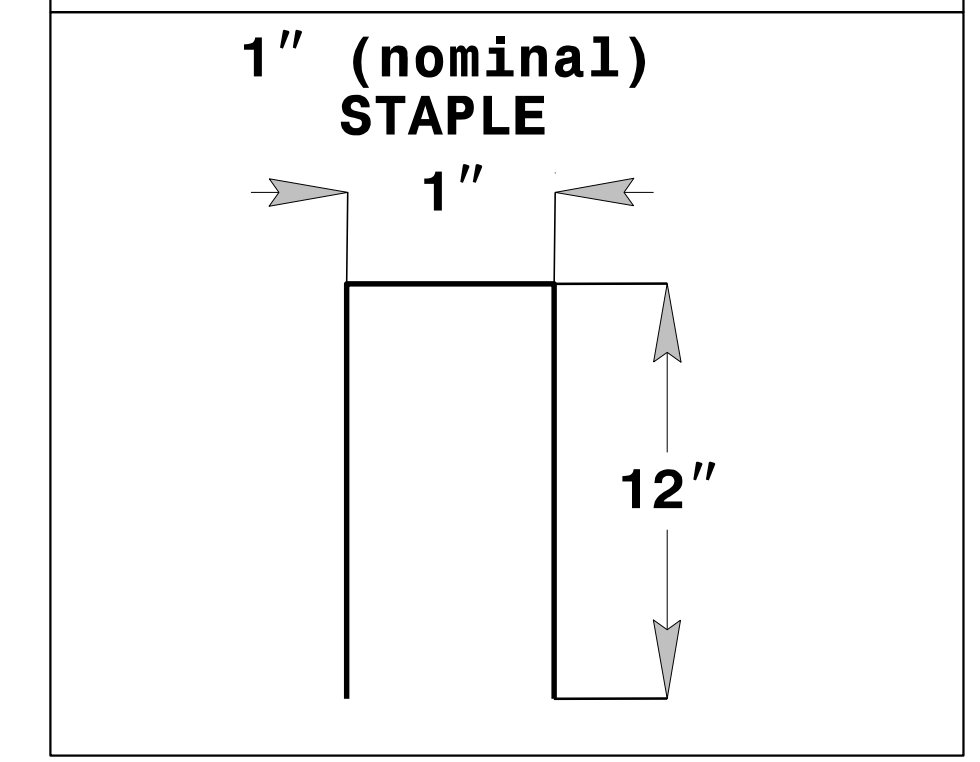
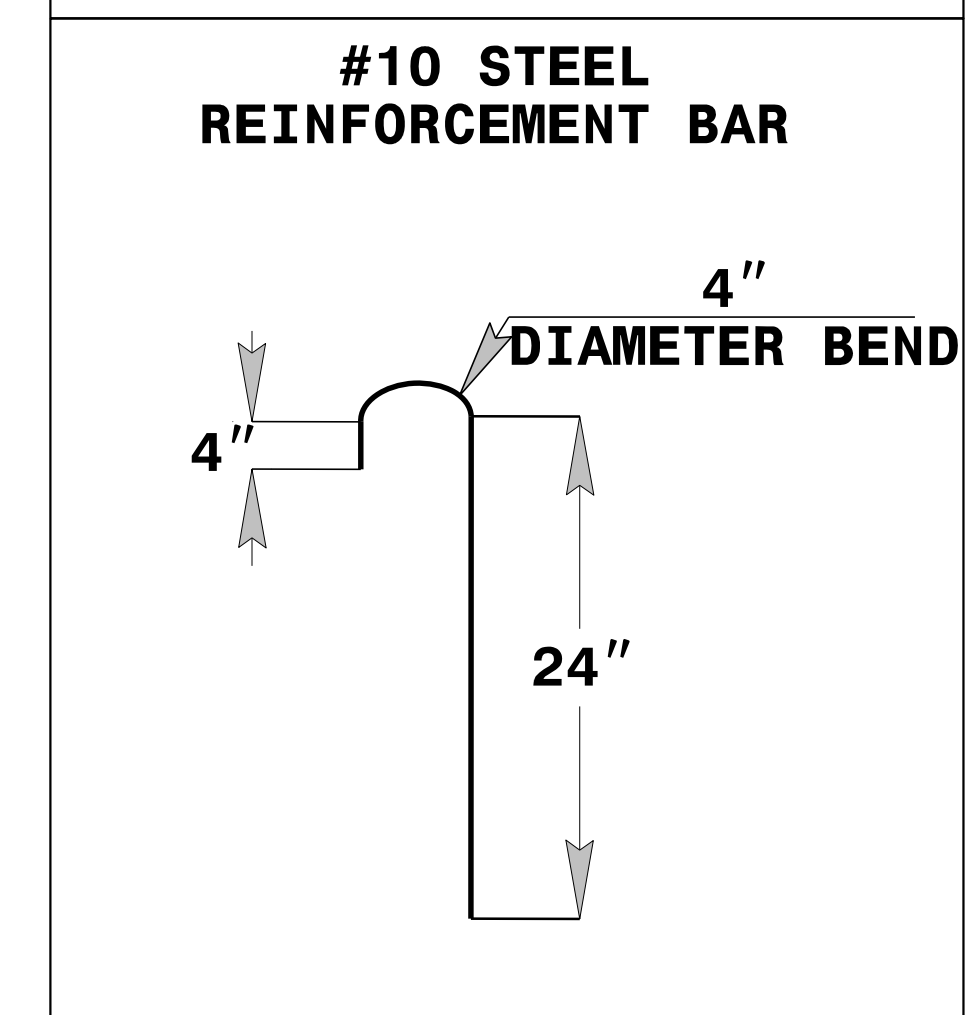
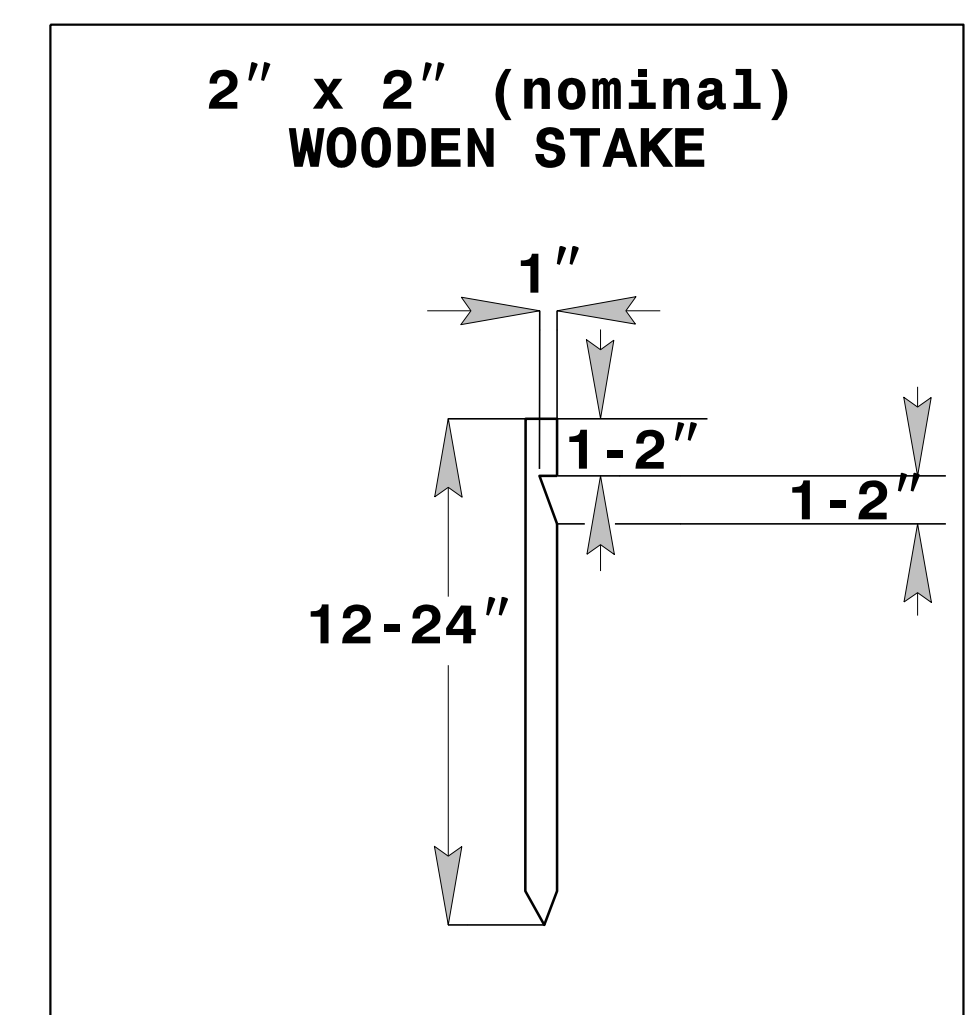
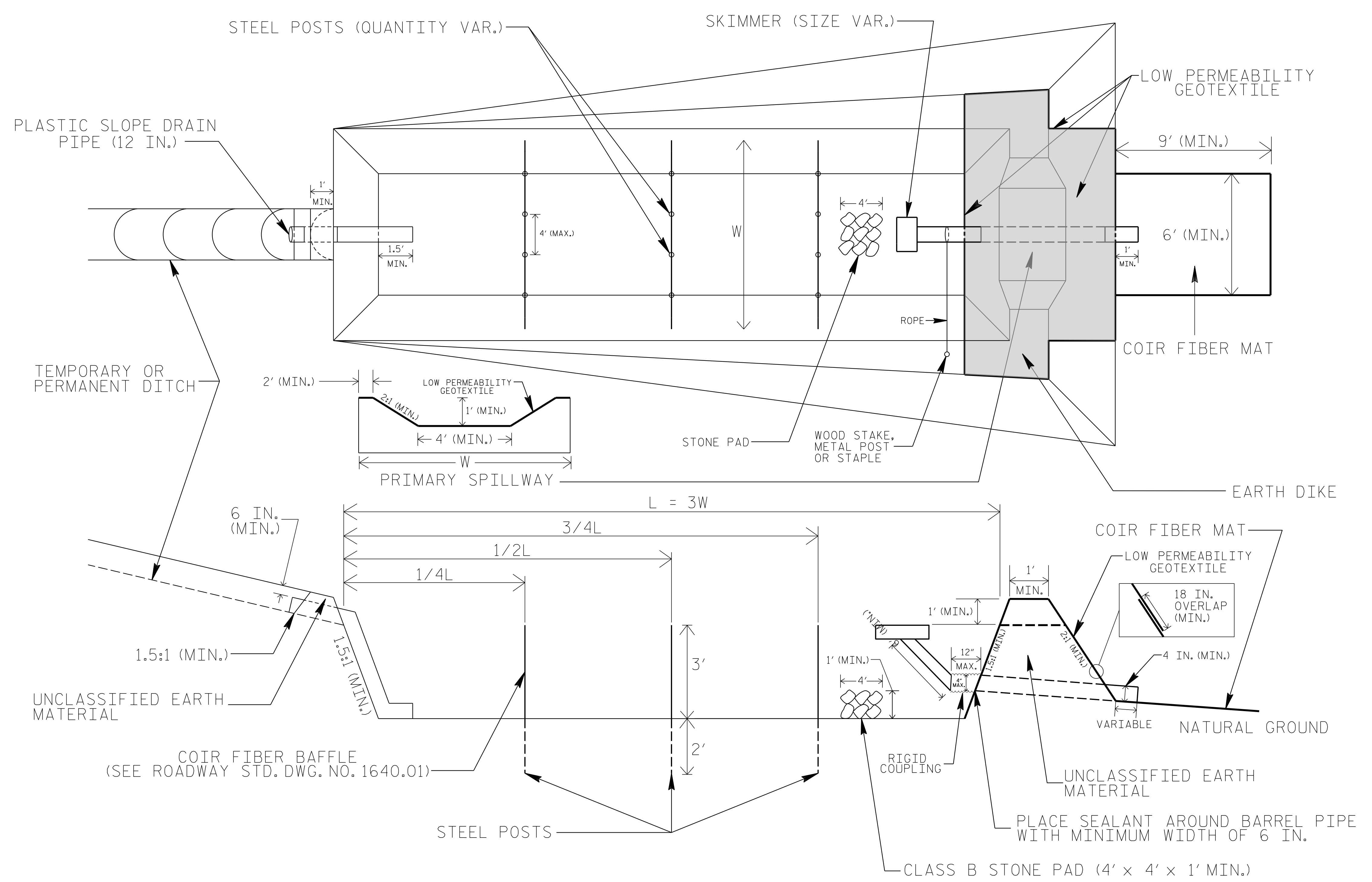
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam 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
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Baffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

PROJECT REFERENCE NO. 1-5883	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# SKIMMER BASIN WITH BAFFLES DETAIL (EAST)



## COIR FIBER MAT ANCHOR OPTIONS

### NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
3. FOR BASIN DEPTH OF 3 FT., THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
4. DETERMINE PRIMARY SPILLWAY WEIR LENGTH (FT.) USING  $Q/0.8$ , WHERE Q IS FLOW RATE (CFS) INTO BASIN.
5. PLASTIC SLOPE DRAIN PIPE AT INLET OF BASIN MAY BE REPLACED BY FILTRATION GEOTEXTILE OR TARP AS DIRECTED.
6. LOW PERMEABILITY GEOTEXTILE FOR PRIMARY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

NOT TO SCALE

# BORROW PIT DEWATERING BASIN DETAIL

PROJECT REFERENCE NO. 1-5883	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

## GENERAL NOTES:

DETERMINE BORROW PIT DEWATERING BASIN SIZE USING  $V = 8.0203 * Q * T$ , WHERE V IS VOLUME (FT<sup>3</sup>), Q IS PUMP FLOW RATE (GPM), AND T IS DEWATERING TIME (HR). USE MAXIMUM FLOW RATE OF 1000 GPM AND A MINIMUM DEWATERING TIME OF 2 HOURS.

RISER SHALL BE A NON-PERFORATED, SMOOTH OR CORRUGATED MATERIAL WITH A FLASHBOARD OPTION.

CONSTRUCT THE COIR FIBER BAFFLE IN ACCORDANCE WITH ROADWAY STANDARD DRAWING 1640.01 AND WITH MATERIAL THAT MEETS THE SPECIFICATIONS OF ROADWAY STANDARD 1640-14.

PROVIDE 5' STEEL POSTS OF THE SELF-FASTENER ANGLE STEEL TYPE. INSTALL STEEL POSTS WITH NO MORE THAN 3' OF THE POST APPEARING ABOVE THE GROUND.

ATTACH THE COIR FIBER MAT TO THE STEEL POSTS WITH WIRE OR OTHER ACCEPTABLE MEANS AND STAPLED INTO THE BOTTOM AND SIDE SLOPES OF THE BASIN WITH 12" STAPLES.

INSTALL TYPE 2 GEOTEXTILE ON SIDESLOPES AND BOTTOM OF BASIN AT INLET AS SHOWN IN THE DETAIL.

USE THE TYPICAL SECTION SHOWN FOR THE BORROW PIT DEWATERING BASIN AS A GUIDE. THE BASIN MAY HAVE ANY TYPE CONFIGURATION AS LONG AS SUFFICIENT VOLUME IS PROVIDED AND PROVISIONS ARE MADE FOR A NON-PERFORATED RISER.

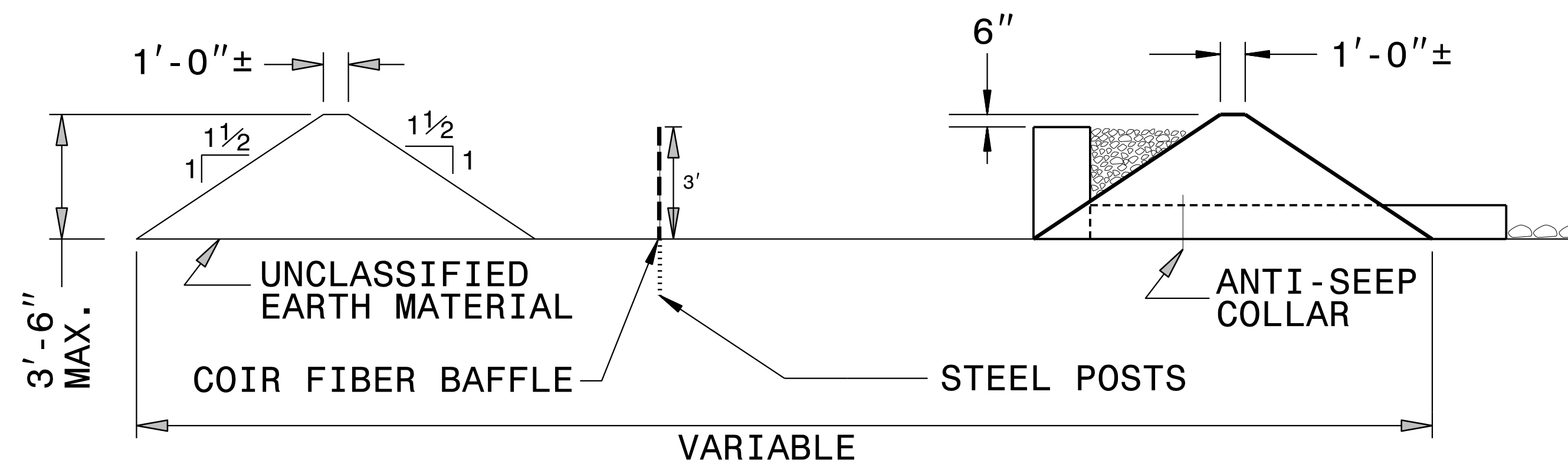
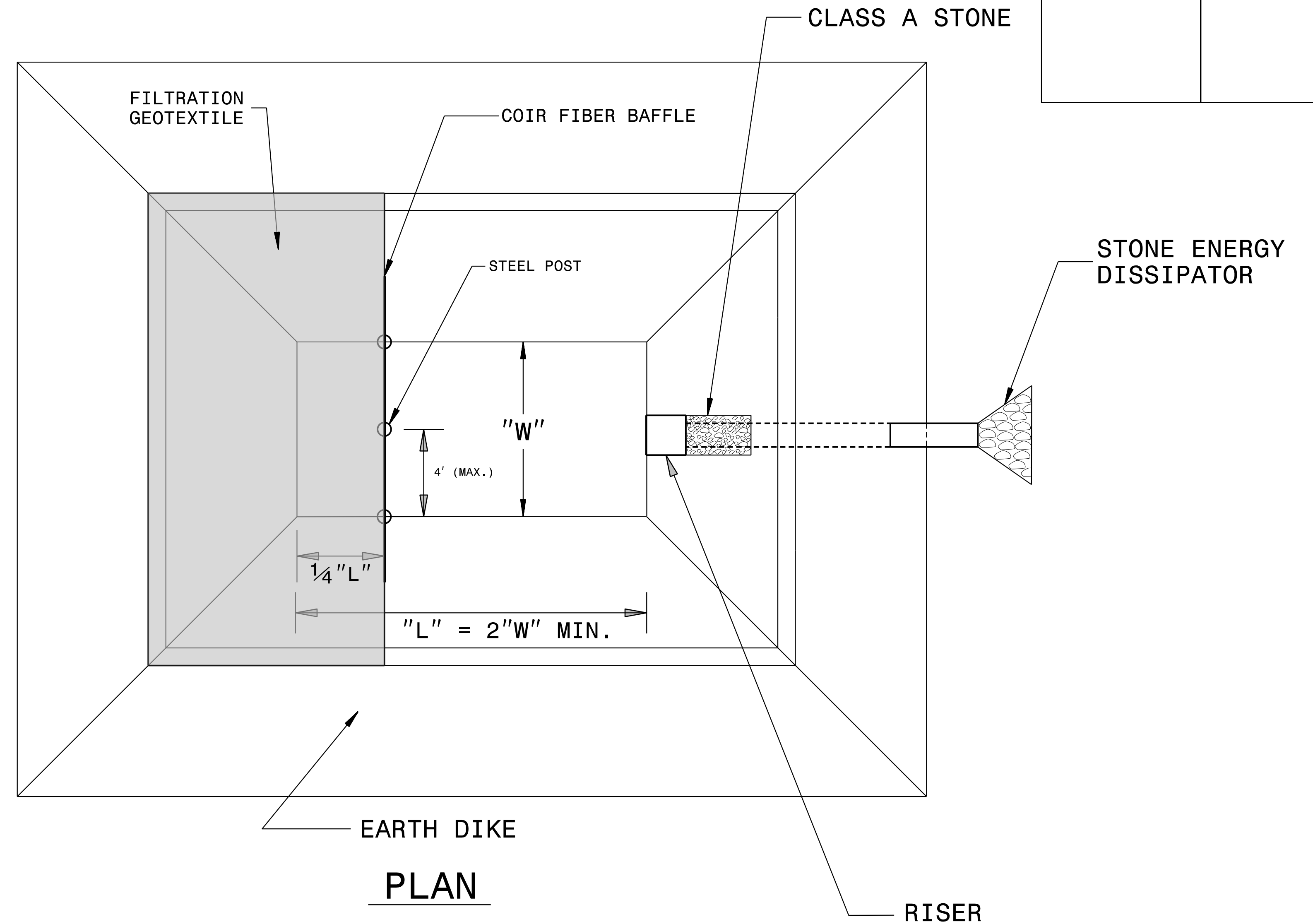
DO NOT EXCEED 3½ FT. IN HEIGHT FOR THE EARTH DIKES REQUIRED FOR BORROW PIT DEWATERING BASIN.

THE BORROW PIT DEWATERING BASIN SIZE IS VARIABLE AND DEPENDENT ON SPECIFIC SITE REQUIREMENTS AS WELL AS PROPOSED CONSTRUCTION OPERATIONS.

SUBMIT THE SIZE, LOCATION AND RISER PIPE MATERIAL FOR APPROVAL PRIOR TO CONSTRUCTION.

PUMP THE EFFLUENT INTO THE BORROW PIT DEWATERING BASIN TO A MAXIMUM DEPTH OF 6 IN. BELOW TOP OF EARTH DIKE.

PROVIDE A STONE ENERGY DISSIPATOR PAD AT THE OUTLET OF THE PUMP DISCHARGE HOSE AND OUTLET OF THE RISER BARREL IN ACCORDANCE WITH ROADWAY STANDARD DRAWING 876.02 FOR OUTLET W/O DITCH.



TYPICAL SECTION VIEW

NOT TO SCALE

PROJECT REFERENCE NO. 1-5883	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL

NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

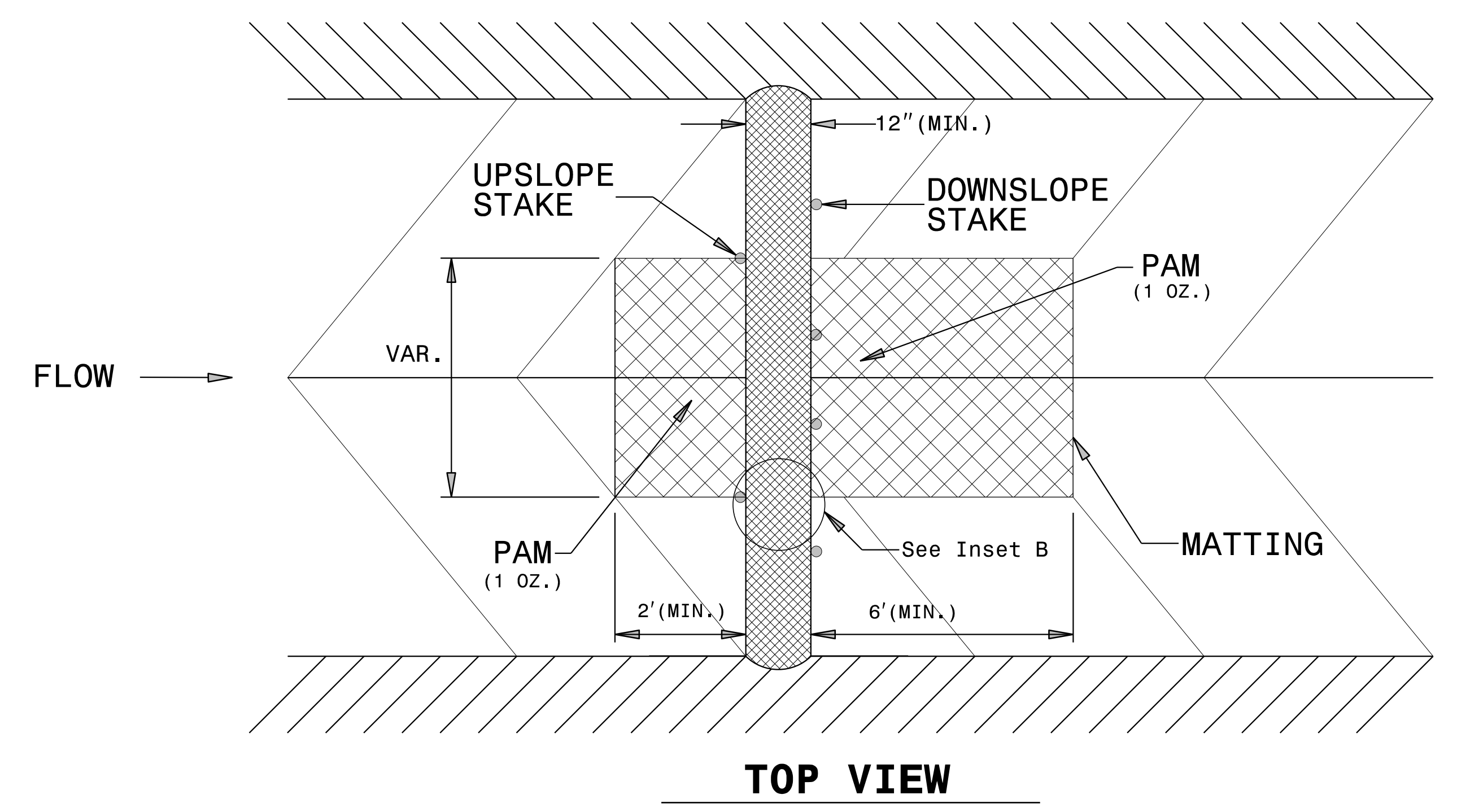
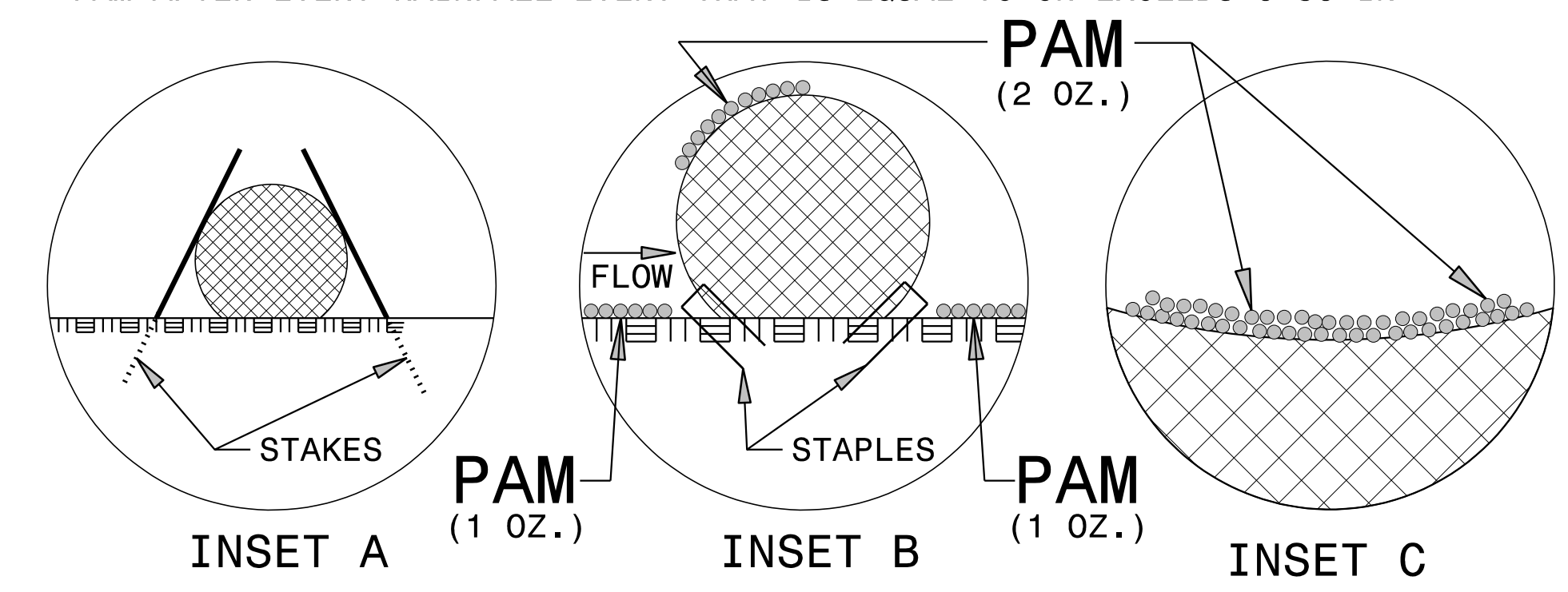
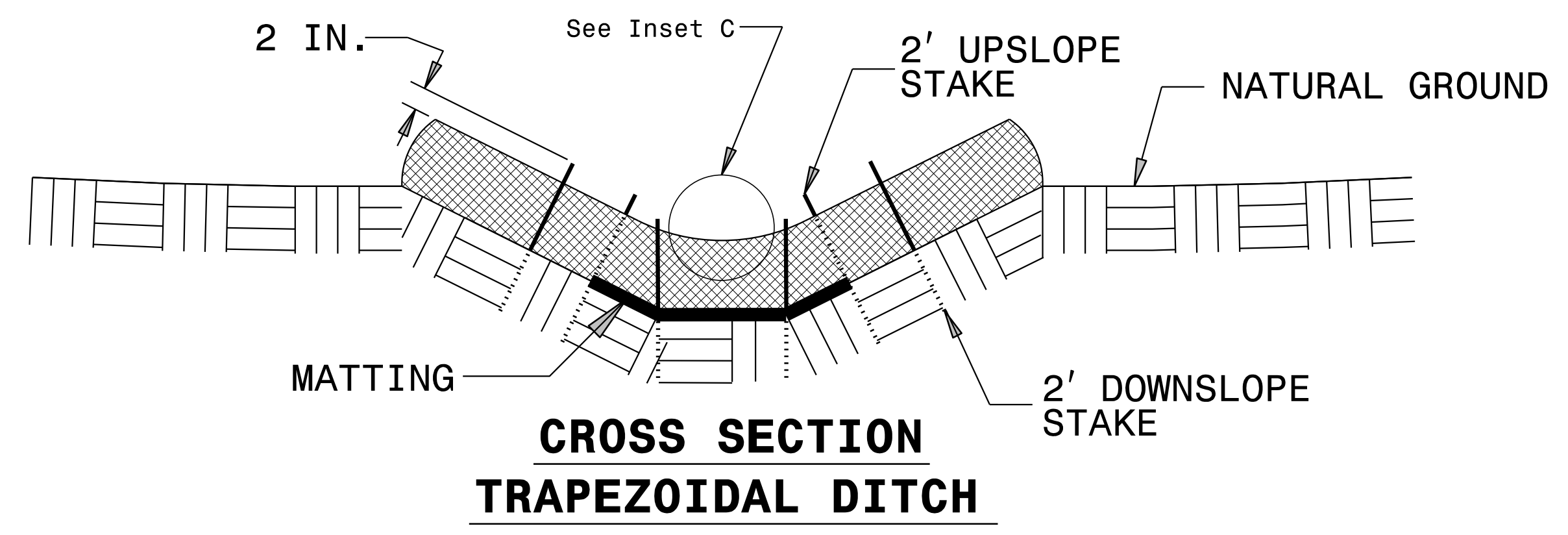
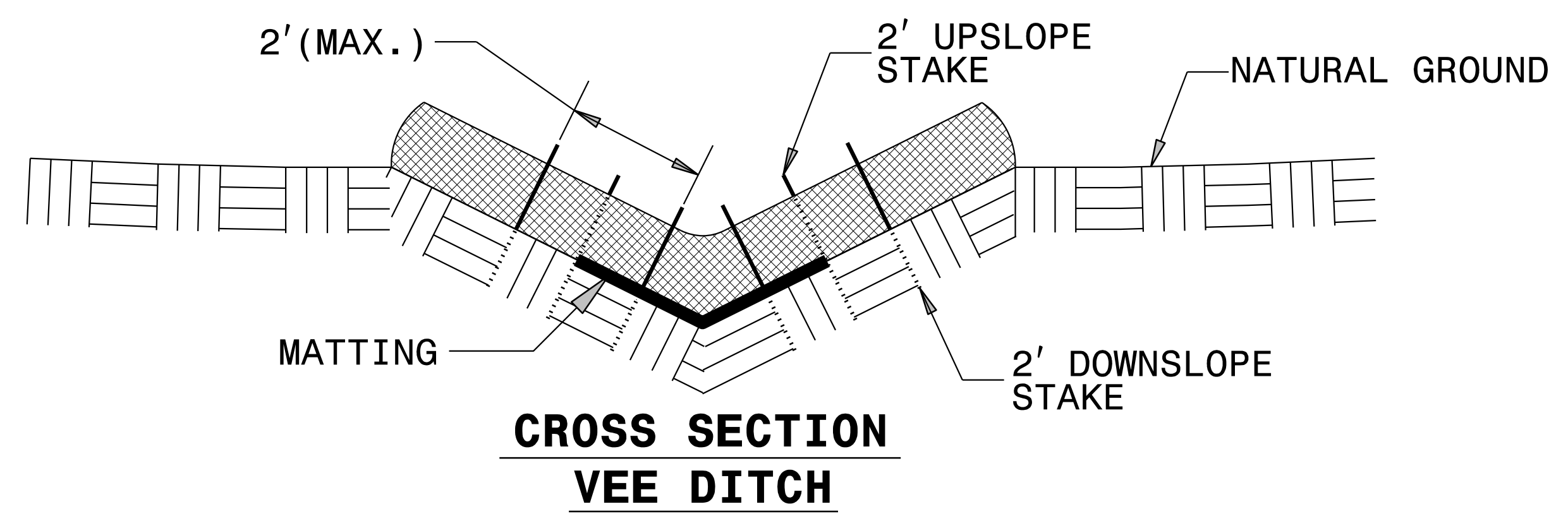
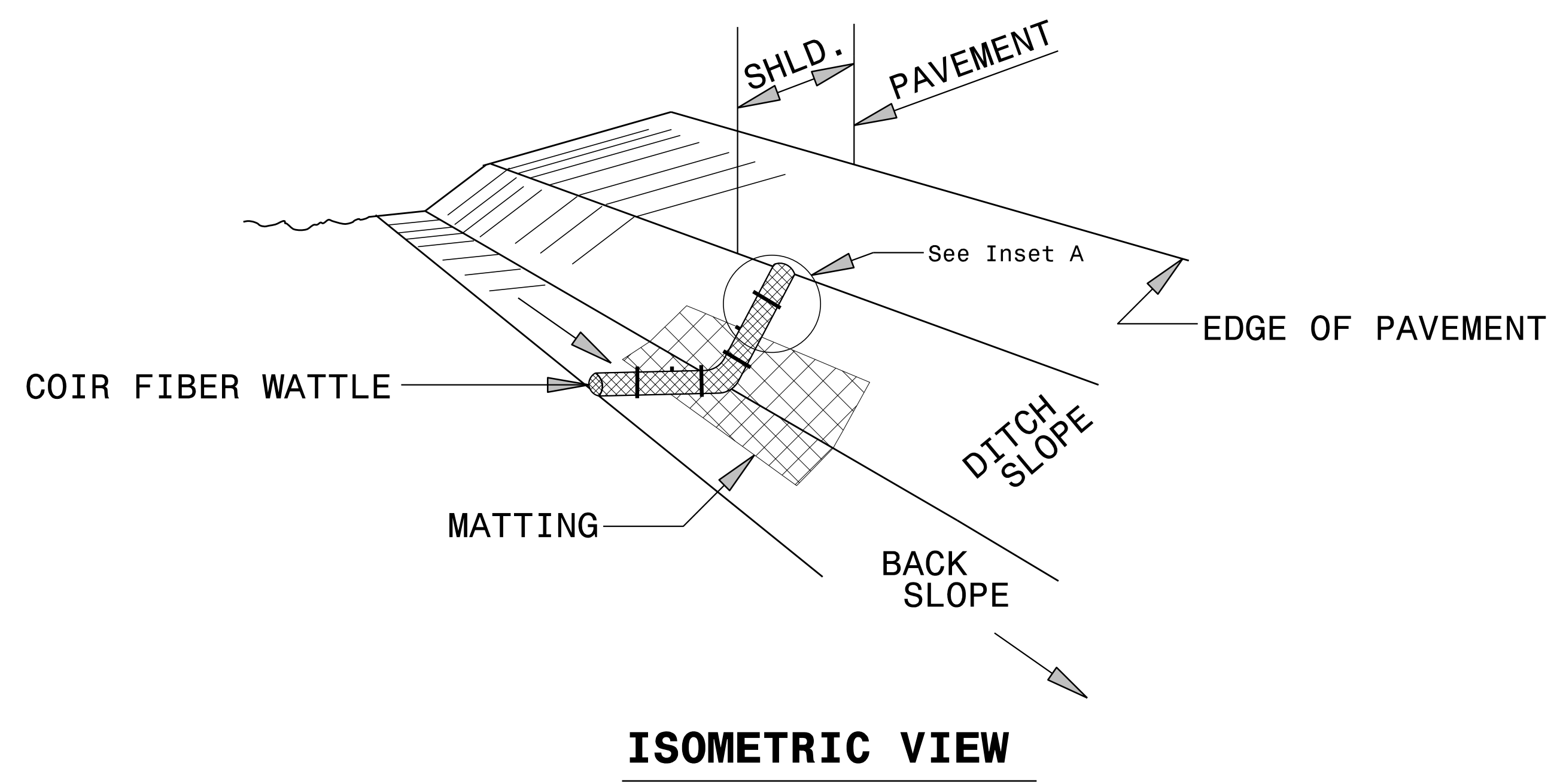
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

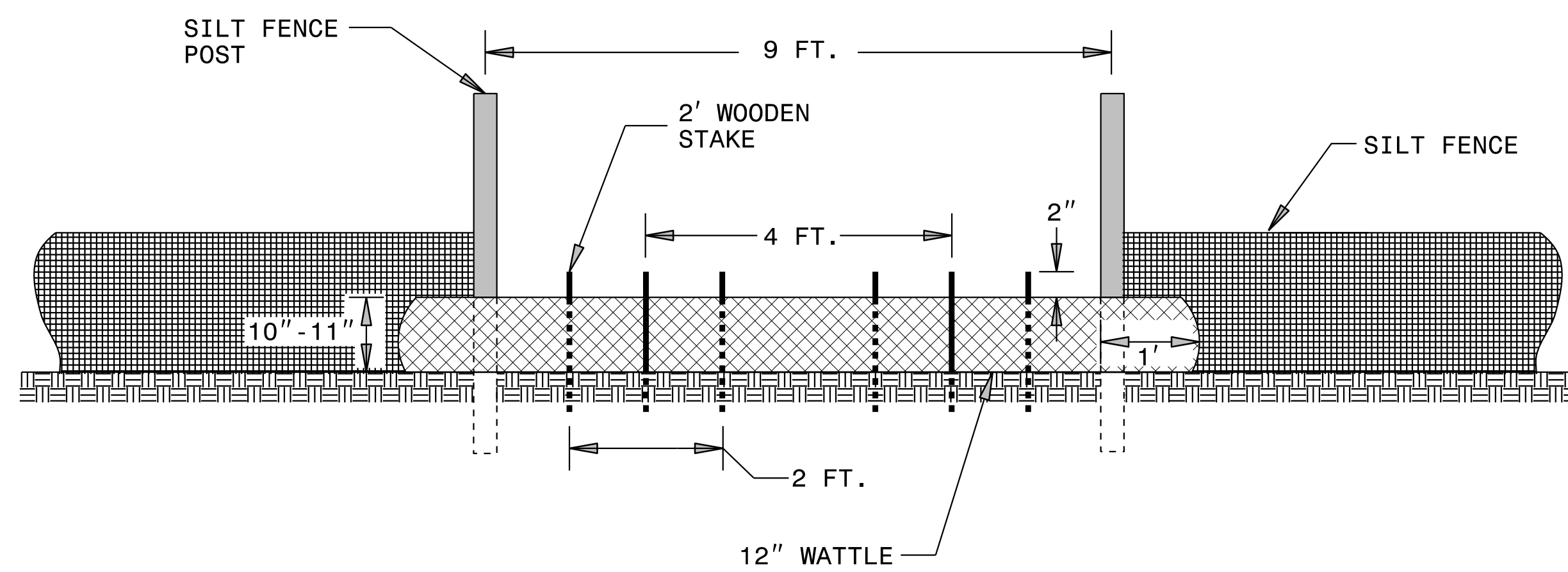
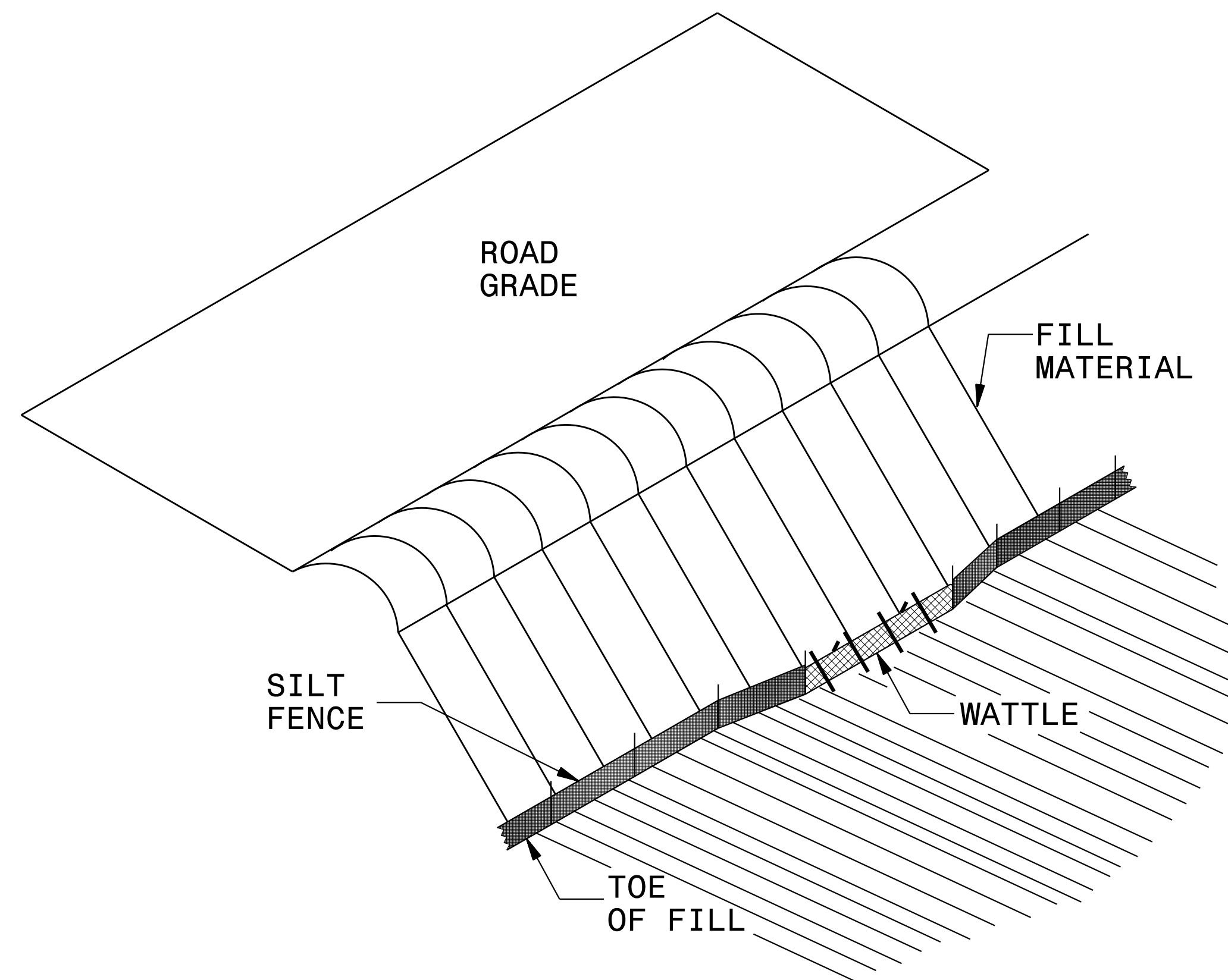
PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



# SILT FENCE COIR FIBER WATTLE BREAK DETAIL

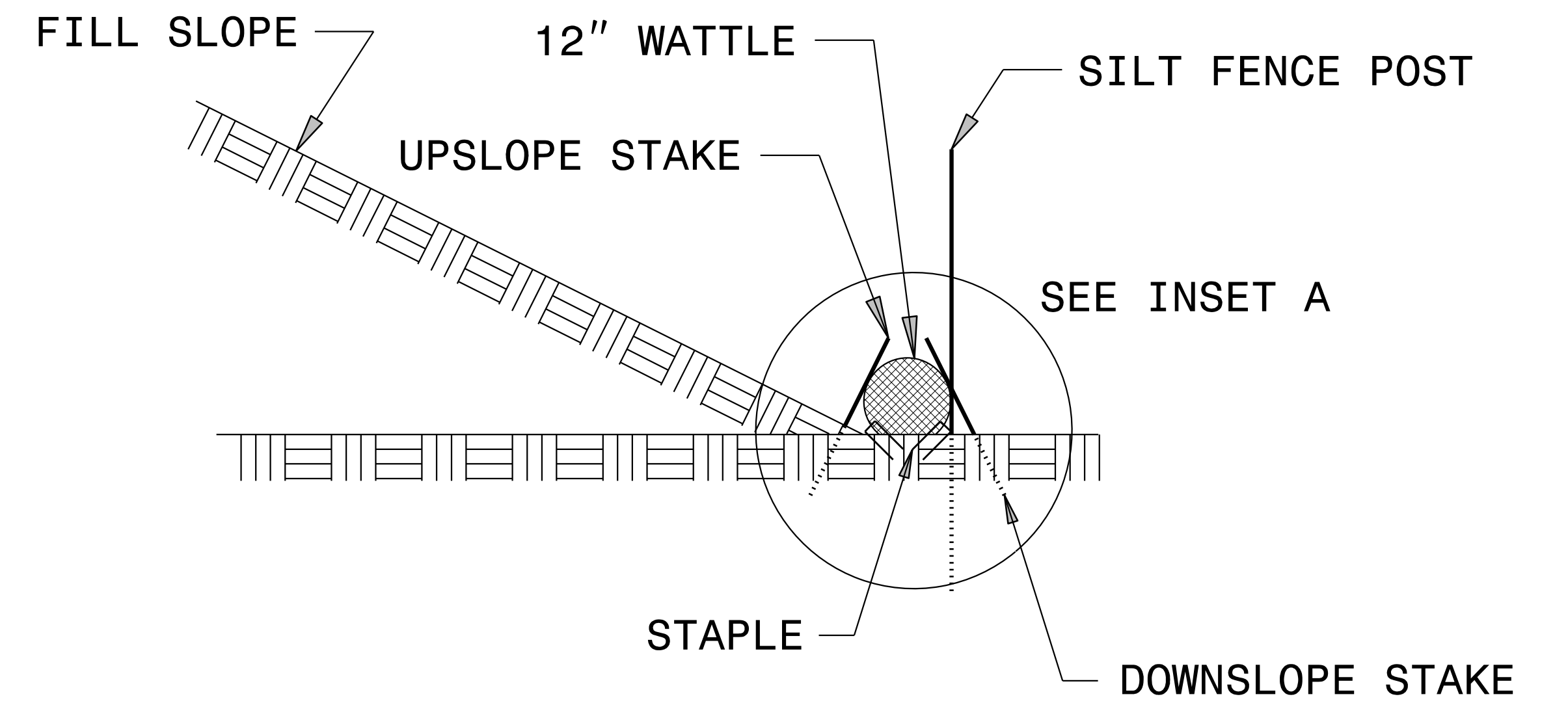
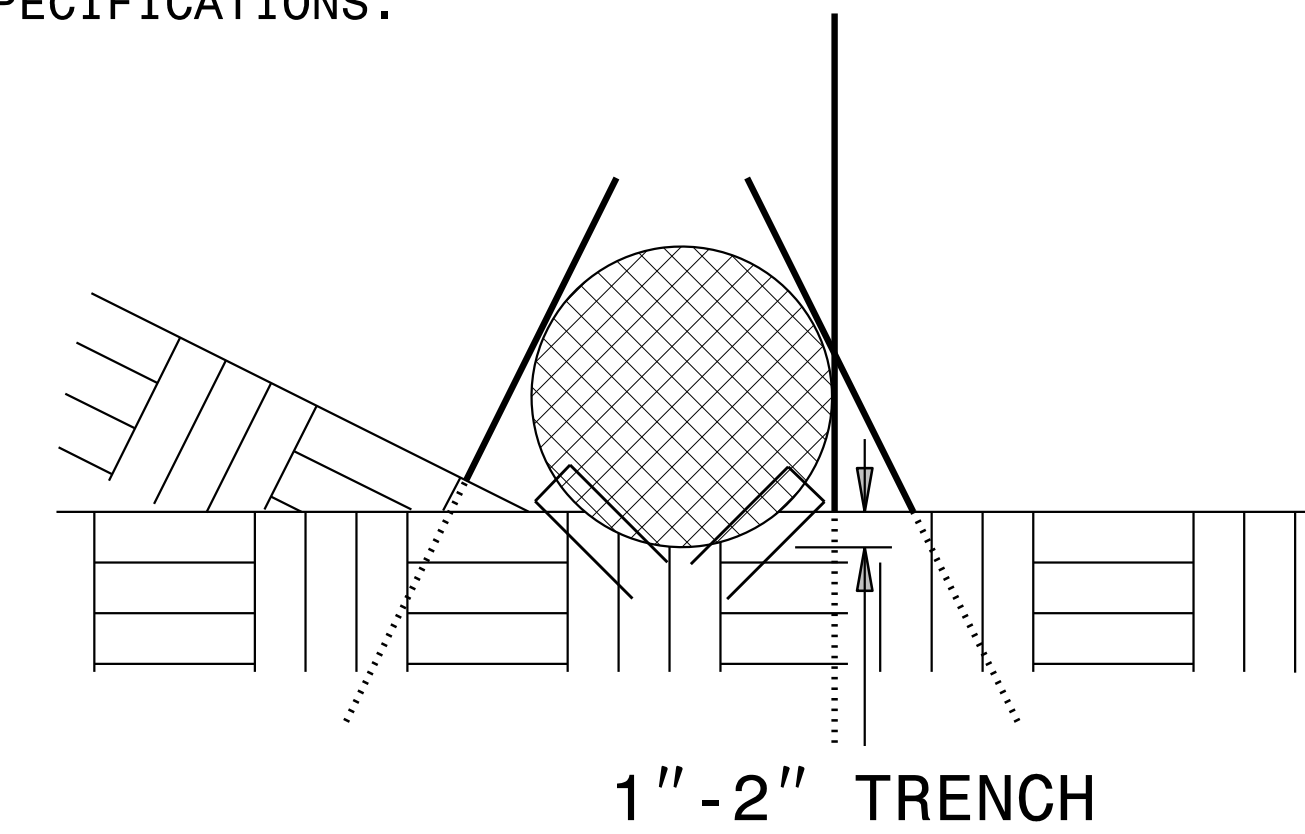
PROJECT REFERENCE NO. 1-5883	SHEET NO. EC-2C
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



**NOTES:**

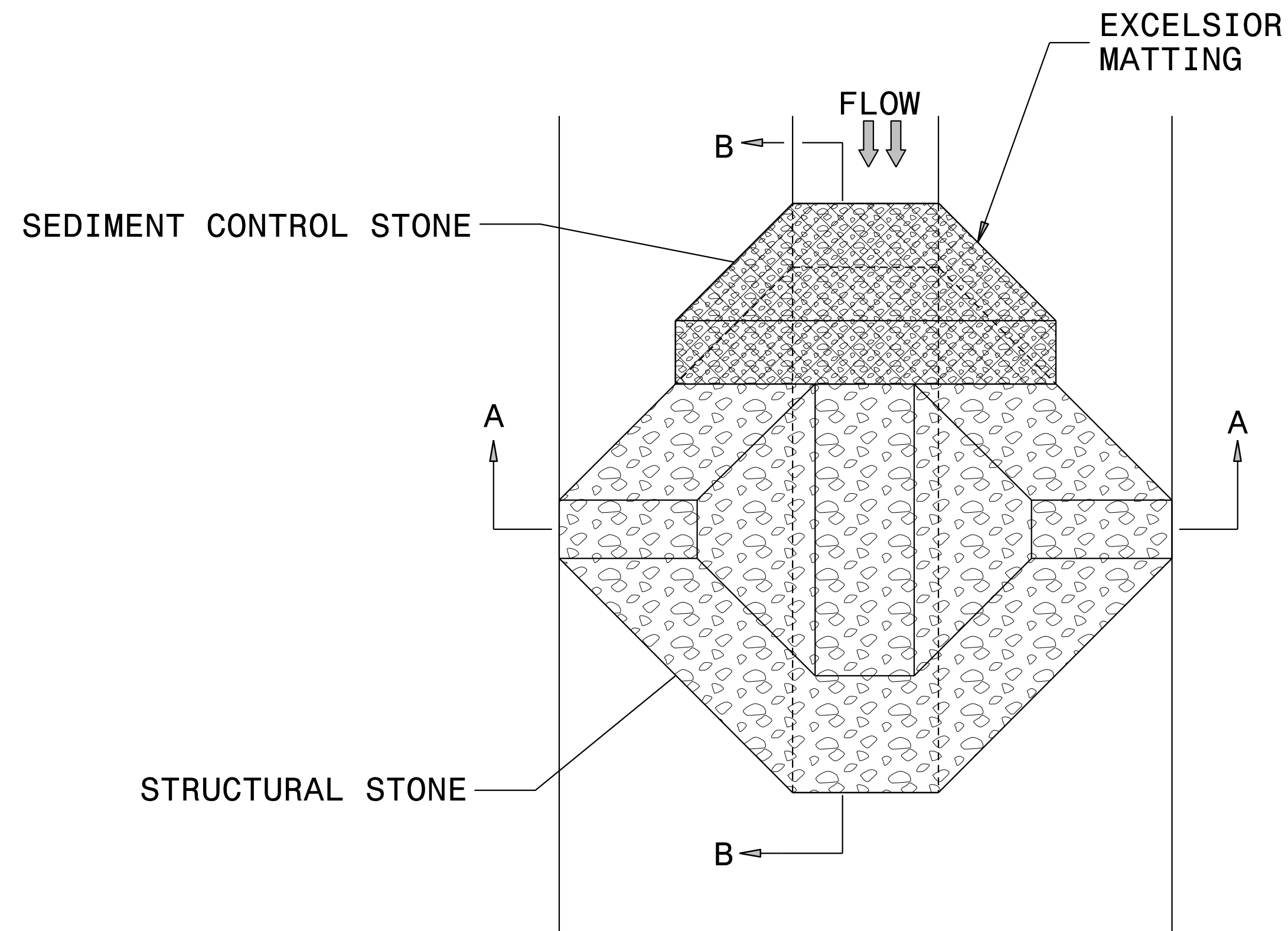
- USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE AND LENGTH OF 10 FT.
- EXCAVATE A 1 TO 2 INCH TRENCH FOR WATTLE TO BE PLACED.
- DO NOT PLACE WATTLE ON TOE OF SLOPE.
- USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
- INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.
- PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
- INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
- WATTLE INSTALLATION CAN BE ON OUTSIDE OF THE SILT FENCE AS DIRECTED.
- INSTALL TEMPORARY SILT FENCE IN ACCORDANCE WITH SECTION 1605 OF THE STANDARD SPECIFICATIONS.

**INSET A**

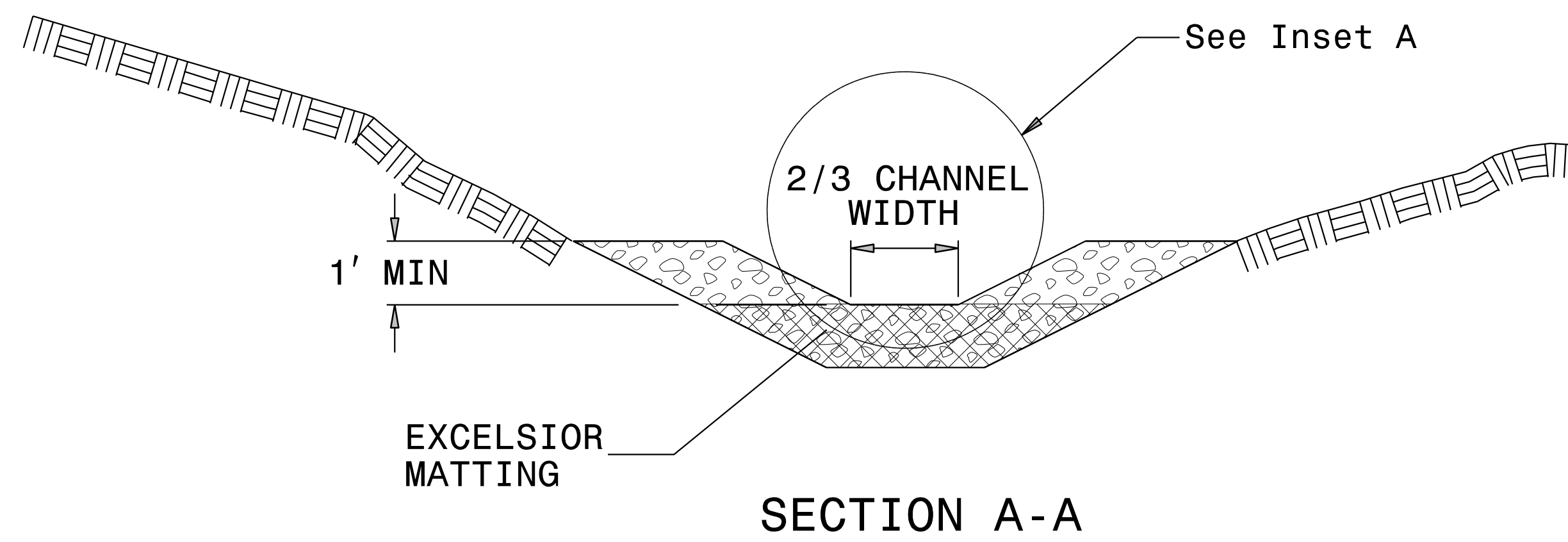


PROJECT REFERENCE NO. 1-5883	SHEET NO. EC-2D
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM)



PLAN



SECTION A-A

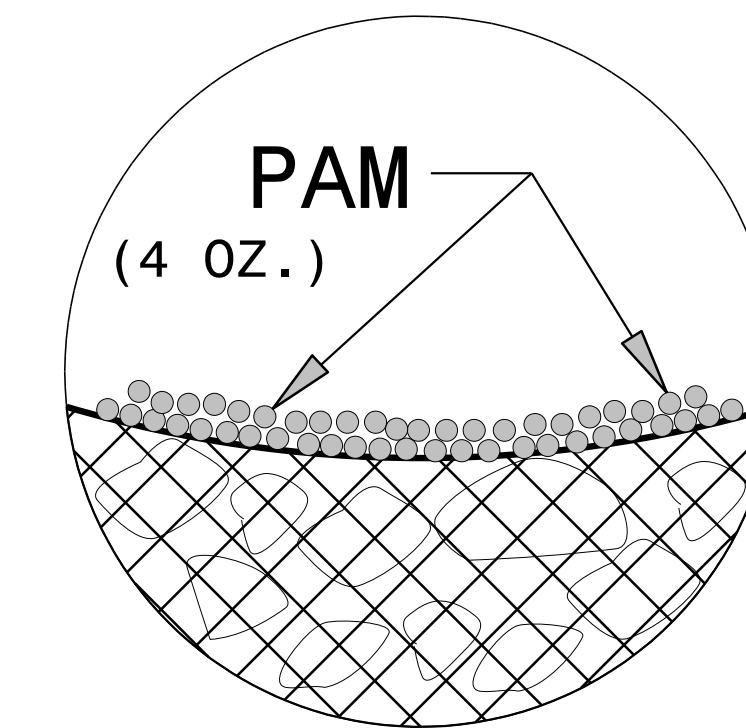
NOTES:

INSTALL TEMPORARY ROCK SILT CHECK TYPE A IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1633.01.

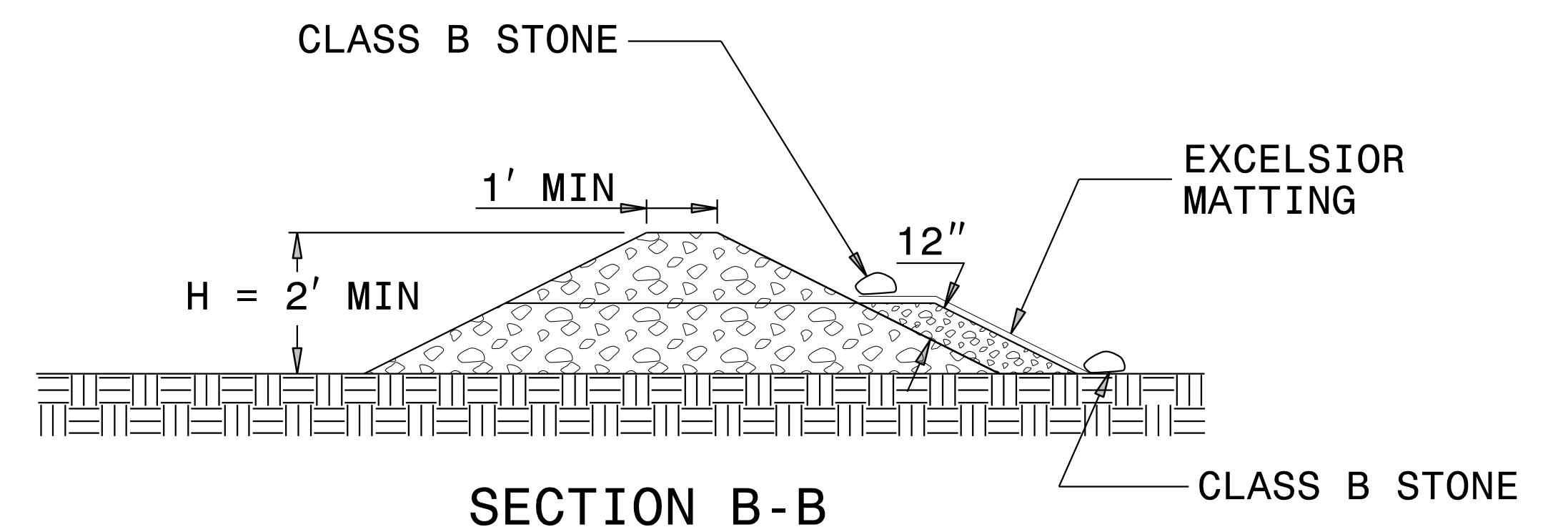
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH ROCK SILT CHECK.

INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION B-B

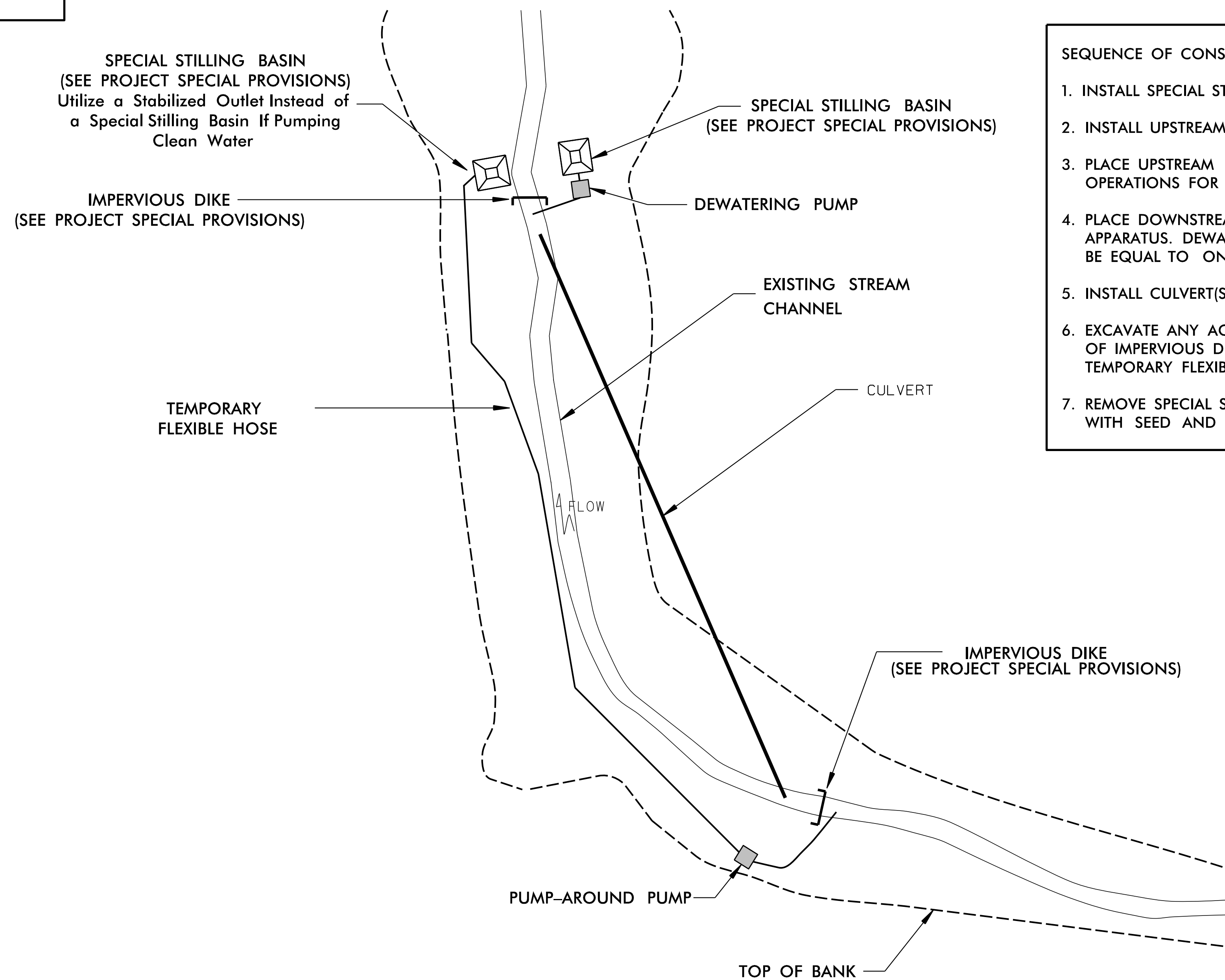
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PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-2E
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# EXAMPLE OF PUMP-AROUND OPERATION

**NOTES:**

- 1) All excavation shall be performed in only dry or isolated areas of the work zone.
- 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. AREA TO BE DEWATERED SHALL BE EQUAL TO ONE DAY'S WORK.
5. INSTALL CULVERT(S) 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.

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. <i>1-5883</i>	SHEET NO. <i>EC-3</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**SOIL STABILIZATION SUMMARY SHEET**

**MATTING FOR EROSION CONTROL (STRAW)**

**MATTING FOR EROSION CONTROL (STRAW)**

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
20-20	-L- A2P151	1208+29	1219+00	MED	710
20-20	-L- A2P351	1208+29	1219+00	MED	1270
20-21	-L- A2P151	1219+00	1229+59	MED	700
20-21	-L- A2P351	1219+00	1231+00	MED	1420
23	-L-	1064+50	1076+00	LT	2160
24	-L-	1082+00	1089+00	LT	2470
24	-L-	1084+50	1085+50	RT	205
24	-SR13-	38+55	40+50	LT	210
24	-SR13-	44+50	45+00	LT	65
24	-SR13-	46+00	50+00	RT	555
24	-Y16RPC-	10+40	12+91	RT	260
25	-L-	1089+00	1091+00	LT	740
25	-L-	1093+00	1096+00	LT	510
25	-L-	1102+00	1103+00	LT	125
25	-L-	1105+50	1109+00	LT	550
25	-L-	1094+00	1098+00	RT	830
25	-L-	1100+80		RT	425
25	-L-	1103+00	1107+00	RT	675
25	-L-	1110+00	1115+00	RT	885
25	-Y16-	19+00	20+30	LT	160
25	-Y16-	17+50	19+50	RT	255
25	-Y16-	32+50	33+34	LT	60
25	-Y16RPA-	24+00	27+00	LT	520
25	-Y16RPA-	13+00	22+28	RT	1680
25	-Y16RPB-	14+59	16+56	LT	740
25	-Y16RPB-	18+00	20+50	LT	475
25	-Y16RPB-	15+10	16+60	RT	305
25	-Y16RPB-	18+00	19+50	RT	295
25	-Y16RPC-	12+91	17+94	RT	950
25	-Y16RPC-	22+22	27+25	RT	760

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
25	-Y16RPC-	20+00	24+50	LT	905
25	-Y16RPD-	14+53	16+54	RT	405
25	-Y16RPD-	13+51	18+91	LT	1390
26	-DR3-	13+00	16+50	LT	425
26	-DR3-	17+50	19+60	LT	320
26	-DR3-	18+00	19+65	RT	205
26	-L-	1115+00	1125+00	RT	1910
26	-L-	1126+00	1127+50	RT	230
26	-SR15-	29+00	31+00	RT	245
26	-Y16RPA-	10+02	13+00	RT	195
27	-L-	1131+00	1141+00	LT	1650
27	-SR15-	32+85	34+50	RT	245
27	-SR15-	37+60	45+71	RT	1115
28	-L-	1141+00	1153+50	LT	2620
28	-SR15-	45+71	49+71	RT	490
28	-SR15-	56+36	58+21	RT	195
28	-SR16-	10+20	14+00	LT	465
28	-SR16-	14+50	15+50	LT	125
28	-SR16-	21+82	23+43	LT	390
28	-SR16-	10+15	12+00	RT	265
29	-L-	1154+00	1161+50	LT	1510
29	-L-	1164+50	1165+50	LT	135
29	-SR16-	24+12	27+62	LT	415
29	-SR16-	34+12	37+12	LT	365
30	-L-	1176+50	1180+00	LT	535
30	-SR15-	77+25	82+10	RT	460
30	-SR16-	37+12	47+35	LT	1100
30	-Y26-	10+50	12+00	LT	105
31	-L-	1180+00	1181+00	LT	190
31	-SR15-	88+45	98+27	RT	625



DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. <i>1-5883</i>	SHEET NO. <i>EC-3A</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**SOIL STABILIZATION SUMMARY SHEET**

**MATTING FOR EROSION CONTROL (STRAW)**

**MATTING FOR EROSION CONTROL (STRAW)**

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
31	-SR16-	61+90	63+00	LT	90
31	-Y13RPB-	10+13	11+63	LT	305
32	-L-	1200+50	1206+05	LT	915
32	-L-	1209+50	1213+50	LT	1105
32	-L-	1216+50	1219+00	LT	695
32	-L-	1199+00	1203+87	RT	710
32	-L-	1207+25	1213+00	RT	1150
32	-L-	1218+70	1219+00	RT	45
32	-SR16-	63+00	64+20	LT	175
32	-SR16-	72+50	79+00	LT	865
32	-SR17-	17+00	28+75	LT	2310
32	-SR17-	31+50	34+52	LT	715
32	-SR17-	17+00	28+30	RT	2070
32	-Y13RPB-	11+63	14+10	LT	510
32	-Y17-	20+50	21+00	LT	65
32	-Y17-	18+00	19+00	RT	125
32	-Y17-	23+05	26+36	RT	795
32	-Y17-	29+35	30+25	RT	165
32	-Y17-	33+65	35+00	RT	165
32	-Y17RPA-	17+50	21+50	LT	420
32	-Y17RPA-	14+63	17+50	RT	910
32	-Y17RPC-	15+46	20+50	RT	1015
32	-Y17RPC-	22+00	24+00	RT	210
32	-Y17RPC-	34+49		RT	30
32	-Y17RPD-	10+37	16+35	LT	1125
32	-Y17RPD-	16+35	20+50	RT	1165
33	-L-	1219+00	1220+23	LT	335
33	-L-	1220+35	1232+00	LT	2140
33	-L-	1219+00	1220+00	RT	125
33	-L-	1223+50	1225+00	RT	265

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
33	-L-	1226+50	1227+50	RT	870
33	-SR17-	35+00	36+14	RT	330
33	-SR17-	36+33	46+67	RT	1370
59	-DR2-	10+34	11+00	LT	95
59	-SR13-	57+00	58+50	LT	185
59	-SR13-	50+00	52+40	RT	290
59	-SR13-	53+04	53+50	RT	65
59	-Y16-	10+50	13+50	LT	400
59	-Y16-	17+00	17+50	LT	65
59	-Y16-	11+00	17+50	RT	815
60	-SR15-	10+23	13+00	LT	345
60	-SR15-	10+50	12+00	RT	185
60	-Y16-	33+34	34+50	LT	85
60	-Y16-	35+00	39+34	LT	530
60	-Y16-	41+00	43+50	LT	310
60	-Y16-	40+50	42+00	RT	185
60	-Y16-	42+50	44+00	RT	130
61	-DR4-	13+50	15+90	RT	290
62	-Y26-	12+00	12+50	LT	35
62	-Y26-	13+15	14+50	LT	145
62	-Y26-	22+00	25+00	LT	245
62	-Y26-	19+50	21+50	RT	165
62	-Y26-	22+00	25+00	RT	210
63	-Y26-	25+00	30+00	LT	400
63	-Y26-	25+00	30+00	RT	355
64	-SR16-	79+00	81+00	LT	260
64	-SR16-	77+50		RT	220
64	-SR16-	82+00	85+80	LT	485
64	-Y17-	13+00	18+00	LT	560
64	-Y17-	12+70	16+12	RT	395



DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

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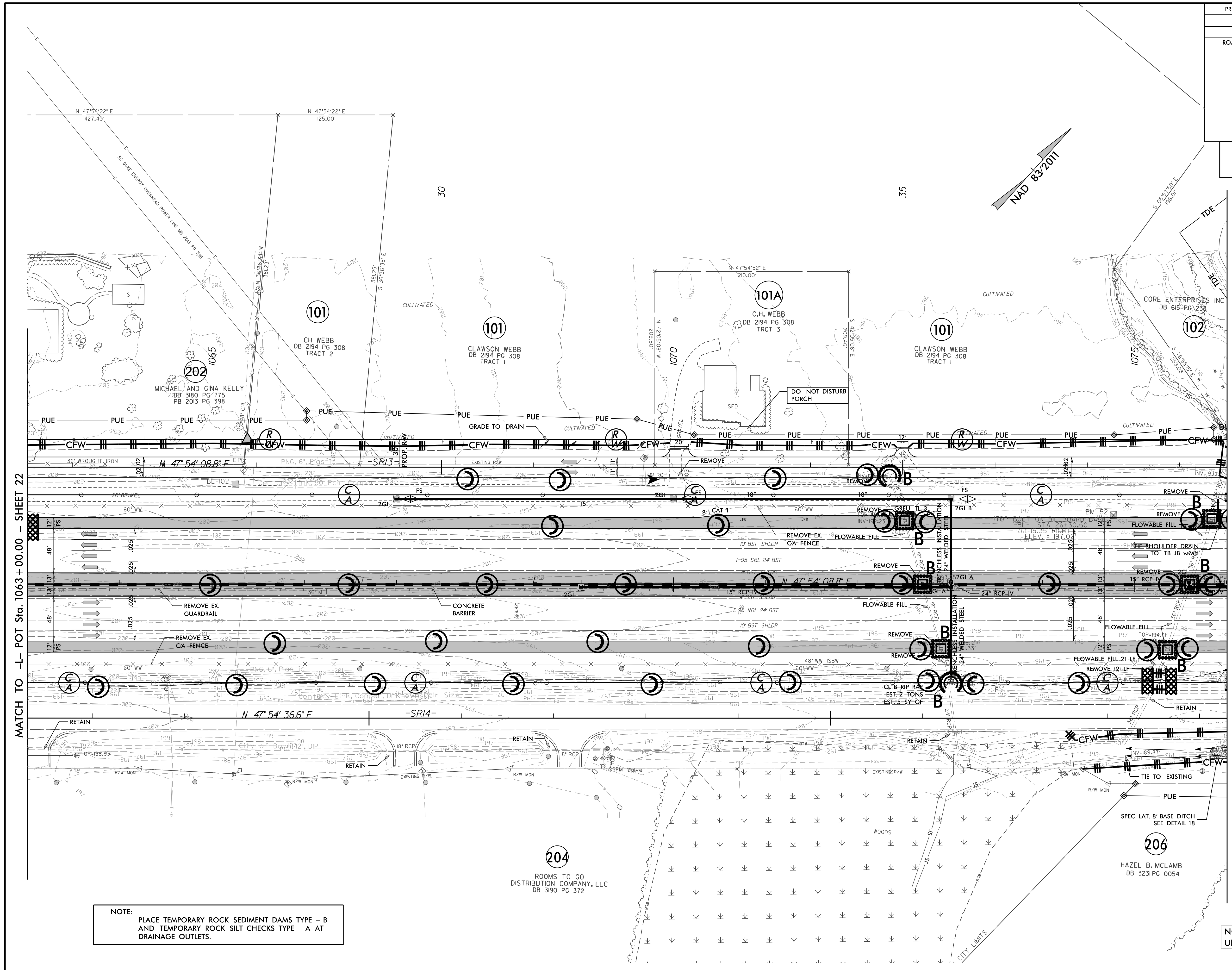
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PROJECT REFERENCE NO. <i>1-5883</i>	SHEET NO. <i>EC-3C</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# ***SOIL STABILIZATION TIMEFRAMES***

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-23/CONST.23
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 23	



MATCH TO -L- POT Sta. 1063+00.00 - SHEET 22

MATCH TO -L- POT Sta. 1076+00.00 - SHEET 24

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

**NOTE:** DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE

204  
ROOMS TO GO  
DISTRIBUTION COMPANY, LLC  
DB 3190 PG 372

206  
HAZEL B. MCLAMB  
DB 3231 PG 0054

101A  
C.H. WEBB  
DB 2194 PG 308  
TRACT 3

101  
CLAWSON WEBB  
DB 2194 PG 308  
TRACT 1

101  
CH WEBB  
DB 2194 PG 308  
TRACT 2

101  
CLAWSON WEBB  
DB 2194 PG 308  
TRACT 1

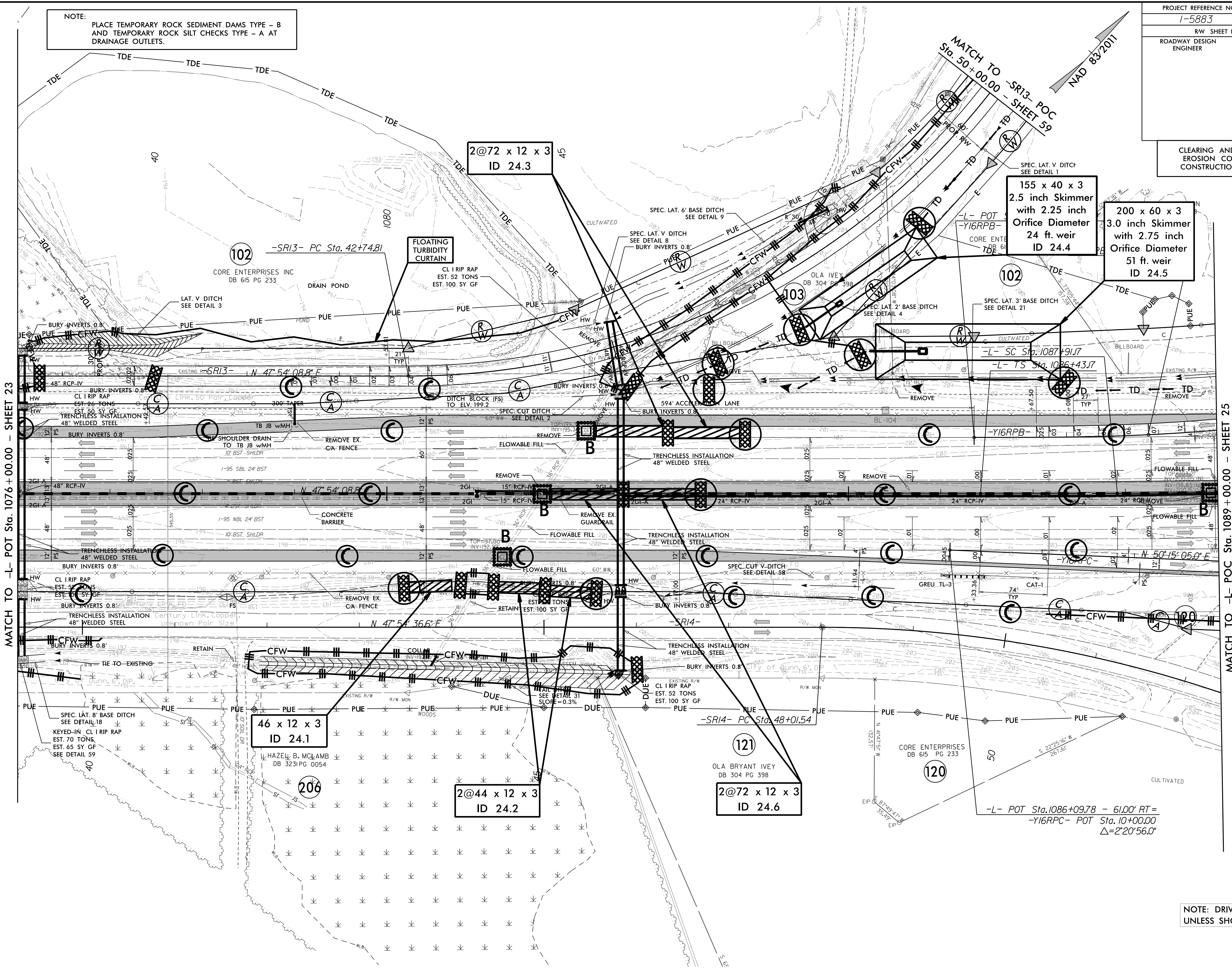
202  
MICHAEL AND GINA KELLY  
DB 3180 PG 775  
PB 2013 PG 398

102  
CORE ENTERPRISES INC  
DB 615 PG 238

PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-24/CONST.24
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

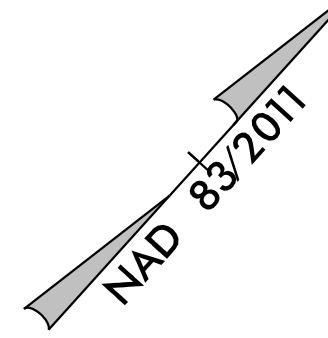
CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 24

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



MATCH TO -L- POT Sta. 1076+00.00 - SHEET 23

MATCH TO -L- POC Sta. 1089+00.00 - SHEET 25



-L- POT Sta. 1086+09.78 - 61.00' RT =  
-Y16RPC- POT Sta. 10+00.00  
Δ=2'20\"/>

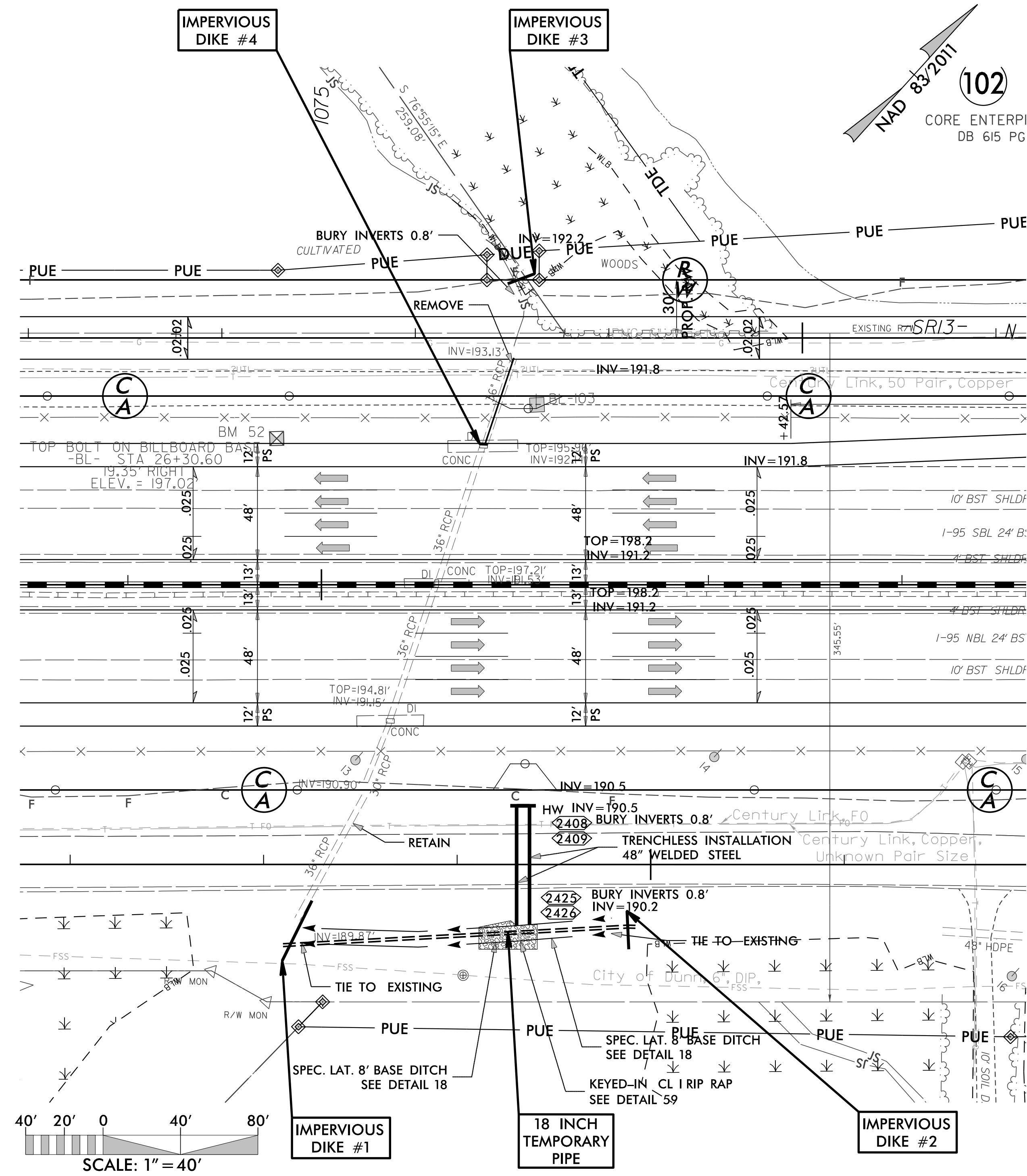
NOTE: DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE

# 2@48" RCP-IV CONSTRUCTION SEQUENCE STA. 1076+04 -L- UT TO MINGO SWAMP

PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-24A/CONST.24
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

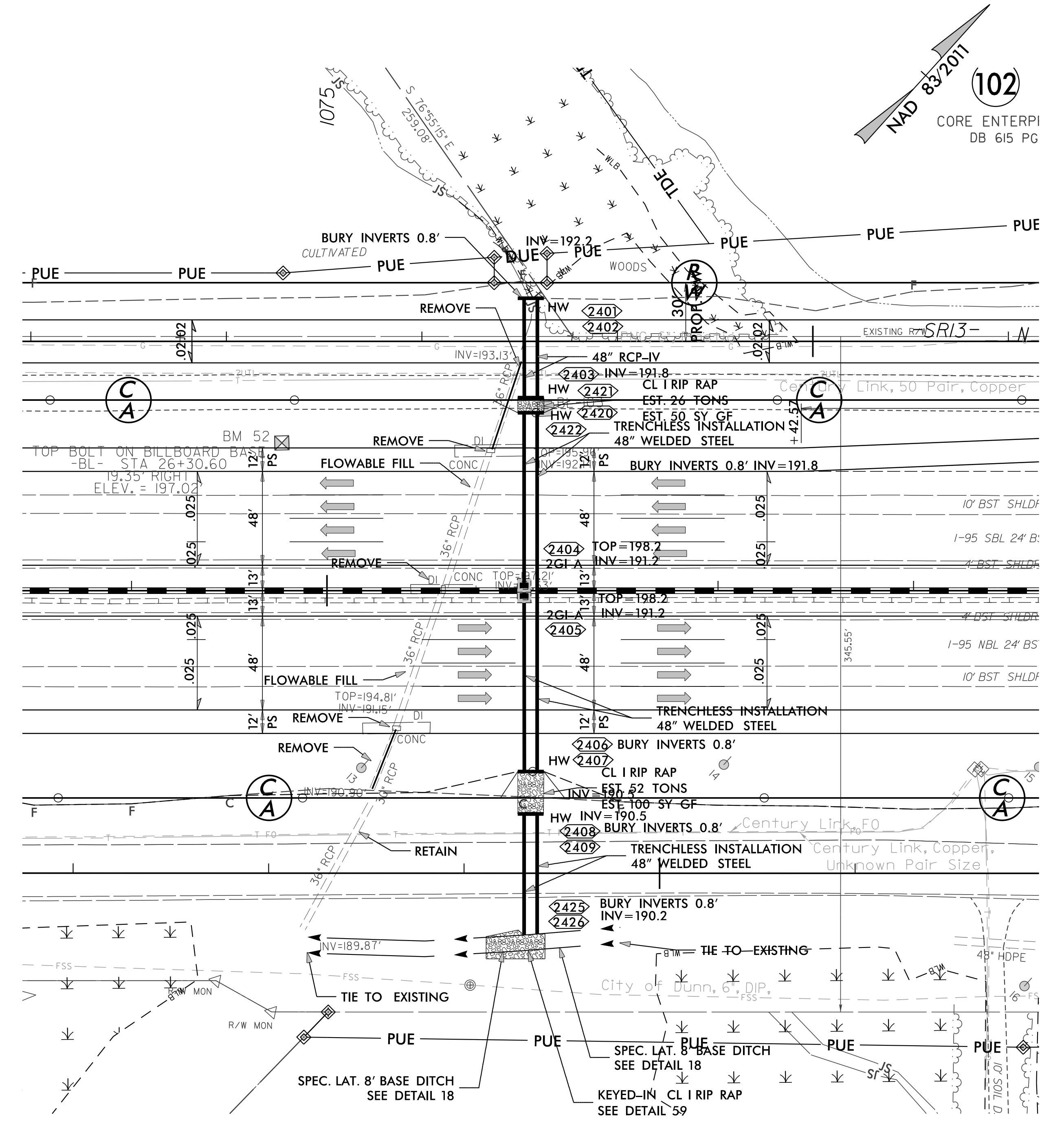
## PHASE I

- UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED THROUGHOUT PIPE INSTALLATION.
- INSTALL IMPERVIOUS DIKES #1 AND #2 AND TEMPORARY 18" FLEXIBLE PIPE.
- DEWATER CONSTRUCTION AREA UTILIZING SPECIAL STILLING BASIN(S) FOR PUMPED EFFLUENT.
- CONSTRUCT SPECIAL LATERAL 8" BASE DITCH WITH KEYED-IN CL I RIP RAP.
- INSTALL 2@48" WELDED STEEL PIPES AND RESPECTIVE HEADWALL AT -SR16-
- INSTALL UPSTREAM PUMP, TEMPORARY FLEXIBLE HOSE, IMPERVIOUS DIKES #3 AND #4, AND BEGIN PUMPING OPERATIONS FOR STREAM DIVERSIONS.
- REMOVE EXISTING 36" RCP AT -SR13- AND CONNECT TEMPORARY FLEXIBLE HOSE TO EXISTING DI.



## PHASE II

- INSTALL 2@48" WELDED STEEL PIPES, CL I RIP RAP, 2GI-A'S 2404 AND 2405, AND ASSOCIATED HEADWALLS AT -L-.
- INSTALL 2@48" RCP-IV, RESPECTIVE HEADWALLS, AND CL I RIP RAP AT -SR13-.
- EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKES.
- REMOVE ANY REMAINING SPECIAL STILLING BASINS, IMPERVIOUS DIKES, TEMPORARY 18" FLEXIBLE PIPE, PUMP, AND TEMPORARY FLEXIBLE HOSE.
- DIVERT FLOW THROUGH 2@48" RCP-IV'S.
- REMOVE EXISTING DI'S.
- EXISTING 30" AND 36" PIPES SHALL BE RETAINED, REMOVED, OR FILLED WITH FLOWABLE FILL, AS NOTED ON THE PLANS.
- COMPLETE ROADWAY.

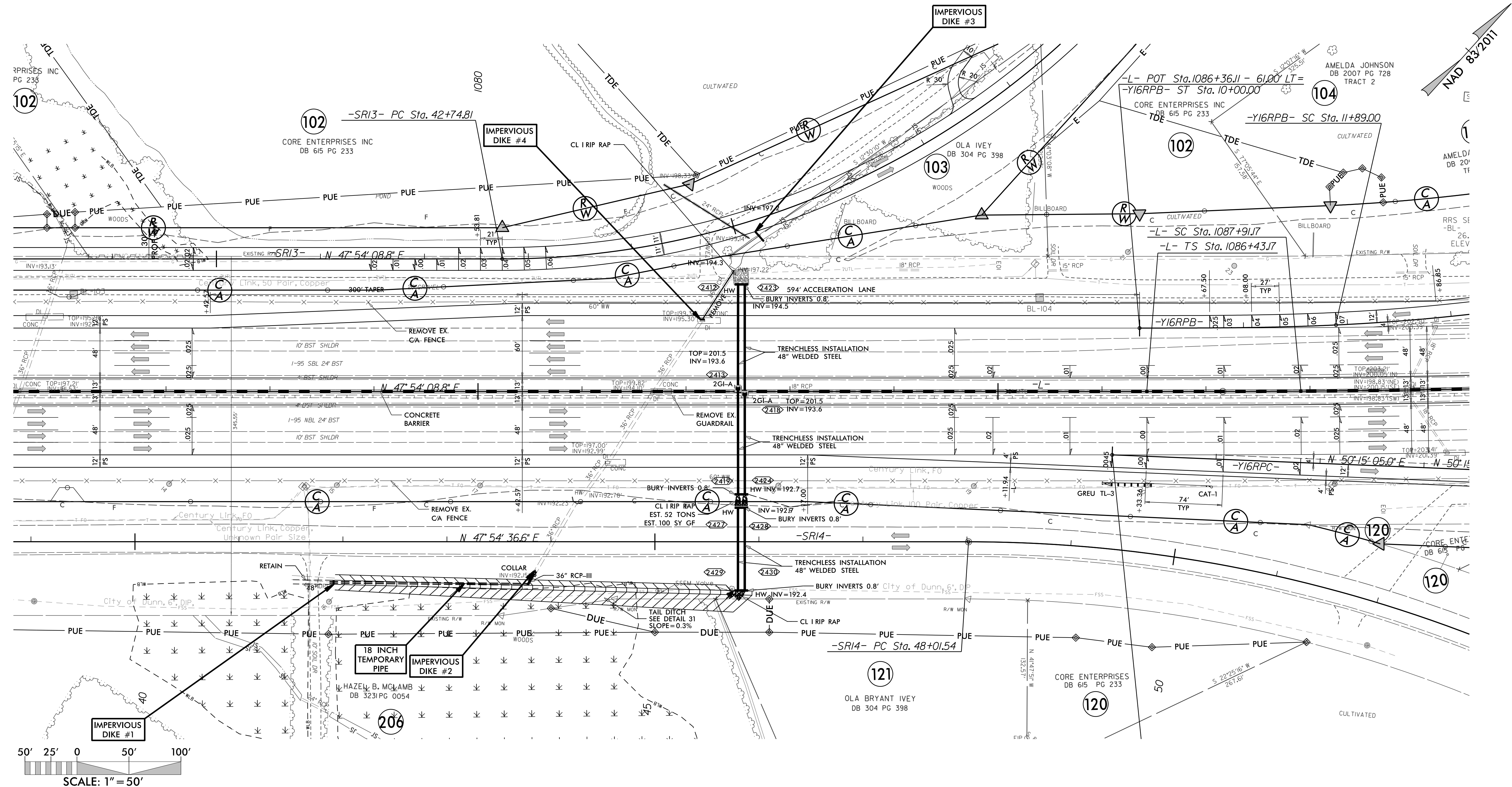


# 2@48" RCP-IV CONSTRUCTION SEQUENCE STA. 1082+53 -L- UT TO STONY RUN (HANNAS POND)

PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-24B/CONST.24
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

## PHASE I

- UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED THROUGHOUT PIPE CONSTRUCTION.
- INSTALL IMPERVIOUS DIKES #1 AND #2 AND TEMPORARY 18" FLEXIBLE PIPE.
- DEWATER CONSTRUCTION AREA UTILIZING SPECIAL STILLING BASIN(S) FOR PUMPED EFFLUENT.
- CONSTRUCT TAIL DITCH AND INSTALL COLLAR AND 36" RCP-III EXTENSION TO EXISTING 36" RCP.
- INSTALL 2@48" TRENCHLESS WELDED STEEL PIPES AND RESPECTIVE HEADWALLS AT -SR14-.
- INSTALL 2@48" TRENCHLESS WELDED STEEL PIPES, 2GI-A'S 2413 AND 2418, AND ASSOCIATED HEADWALLS UNDER -L- NORTH BOUND LANES.
- INSTALL IMPERVIOUS DIKES #3 AND #4, UPSTREAM PUMP, AND TEMPORARY FLEXIBLE HOSE.
- BEGIN PUMPING OPERATIONS FOR STREAM DIVERSION.
- REMOVE 36" RCP AND INSTALL 2@48" TRENCHLESS WELDED STEEL PIPES AND RESPECTIVE HEADWALLS UNDER -L- SOUTH BOUND LANES.



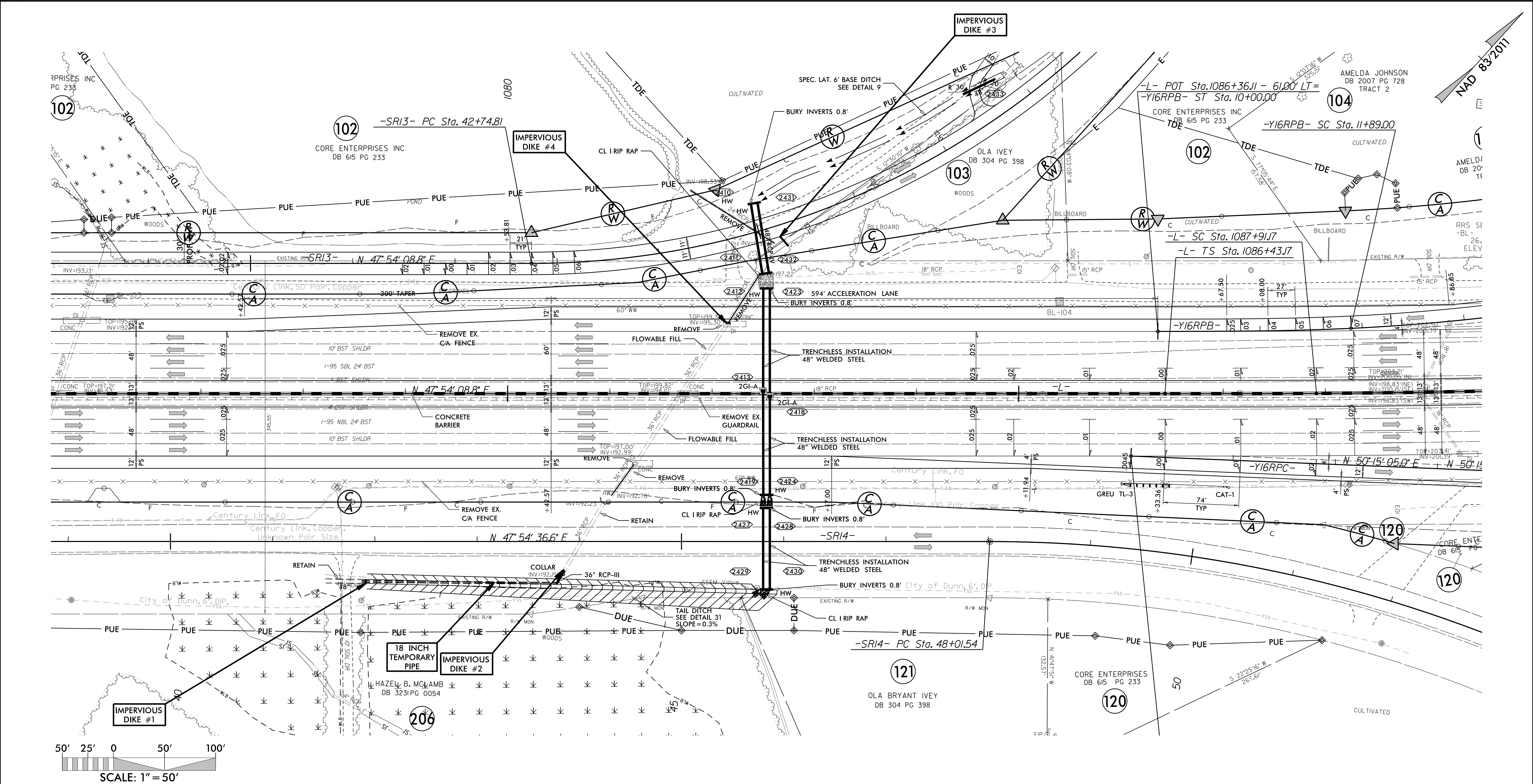
# 2@48" RCP-IV CONSTRUCTION SEQUENCE STA. 1082+53 -L- UT TO STONY RUN (HANNAS POND)

PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-24C/CONST.24
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

## PHASE II

- 1.) REMOVE 24" RCP AT POND.
- 2.) INSTALL 2@48" RCP-IV AND ASSOCIATED HEADWALLS AT -SR13-.
- 3.) CONSTRUCT SPECIAL LATERAL 6' BASE DITCH AND INSTALL 48" PIPE.
- 4.) EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKES.
- 5.) REMOVE ANY REMAINING SPECIAL STILLING BASIN(S), IMPERVIOUS DIKES, UPSTREAM PUMP, TEMPORARY FLEXIBLE HOSE, AND TEMPORARY 18" FLEXIBLE PIPE.
- 6.) DIVERT FLOW THROUGH 48" PIPE.
- 7.) REMOVE EXISTING DI'S ASSOCIATED WITH 36" RCP'S.

- 8.) EXISTING 36" RCP'S SHALL BE RETAINED, REMOVED, OR FILLED WITH FLOWABLE FILL, AS NOTED ON THE PLANS.
- 9.) COMPLETE ROADWAY.



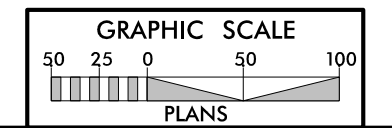
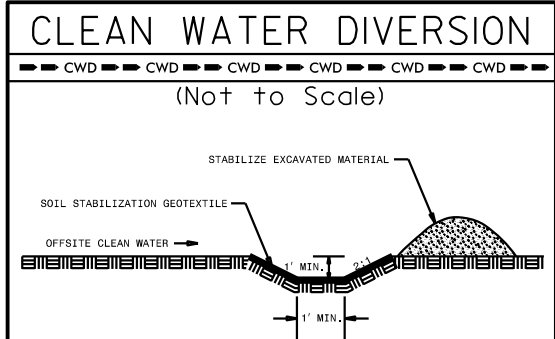
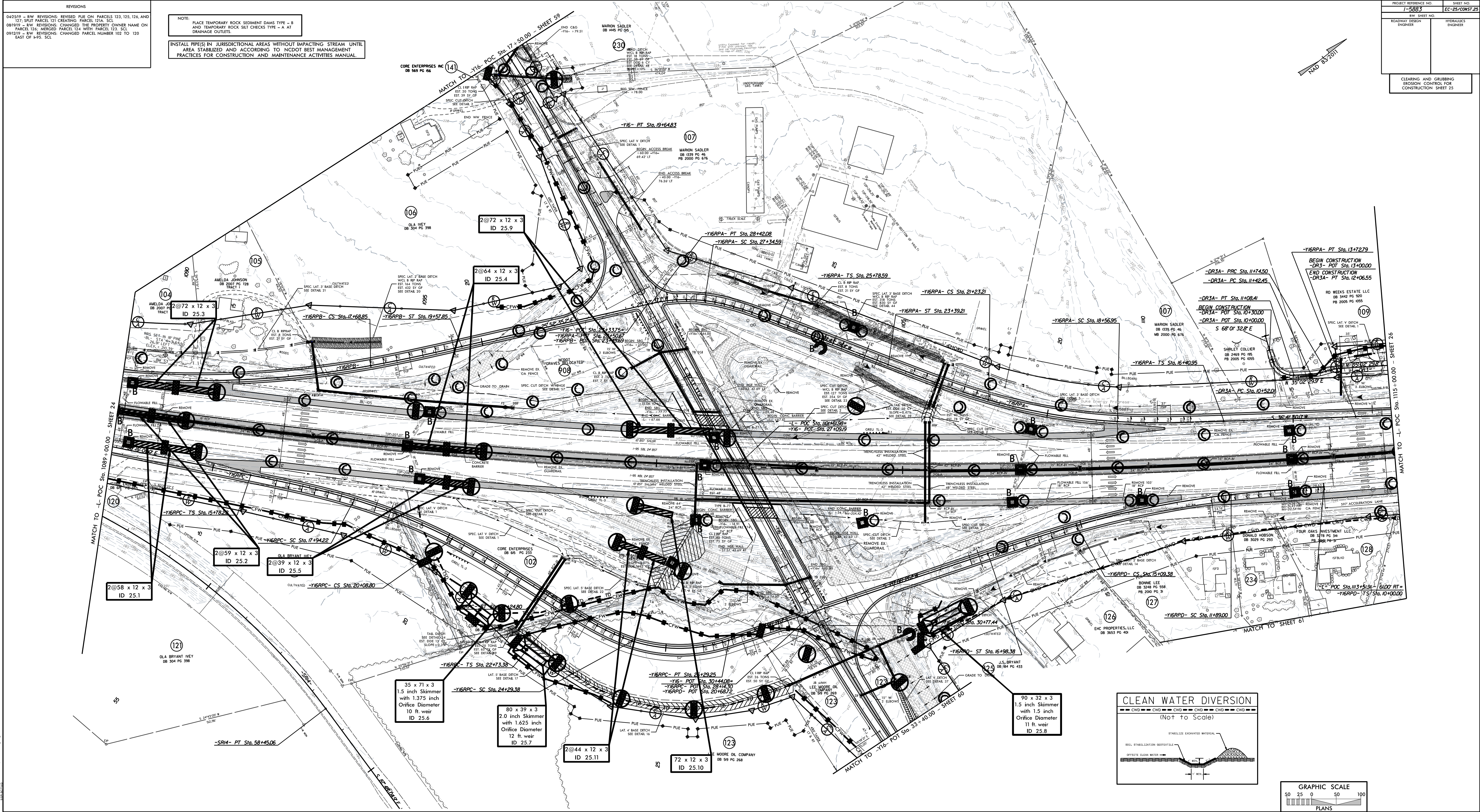


**REVISIONS**

042519 - RW REVISIONS: REVISED PUE ON PARCELS 123, 125, 126, AND 127. SPLIT PARCEL 127 CREATING PARCELS 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

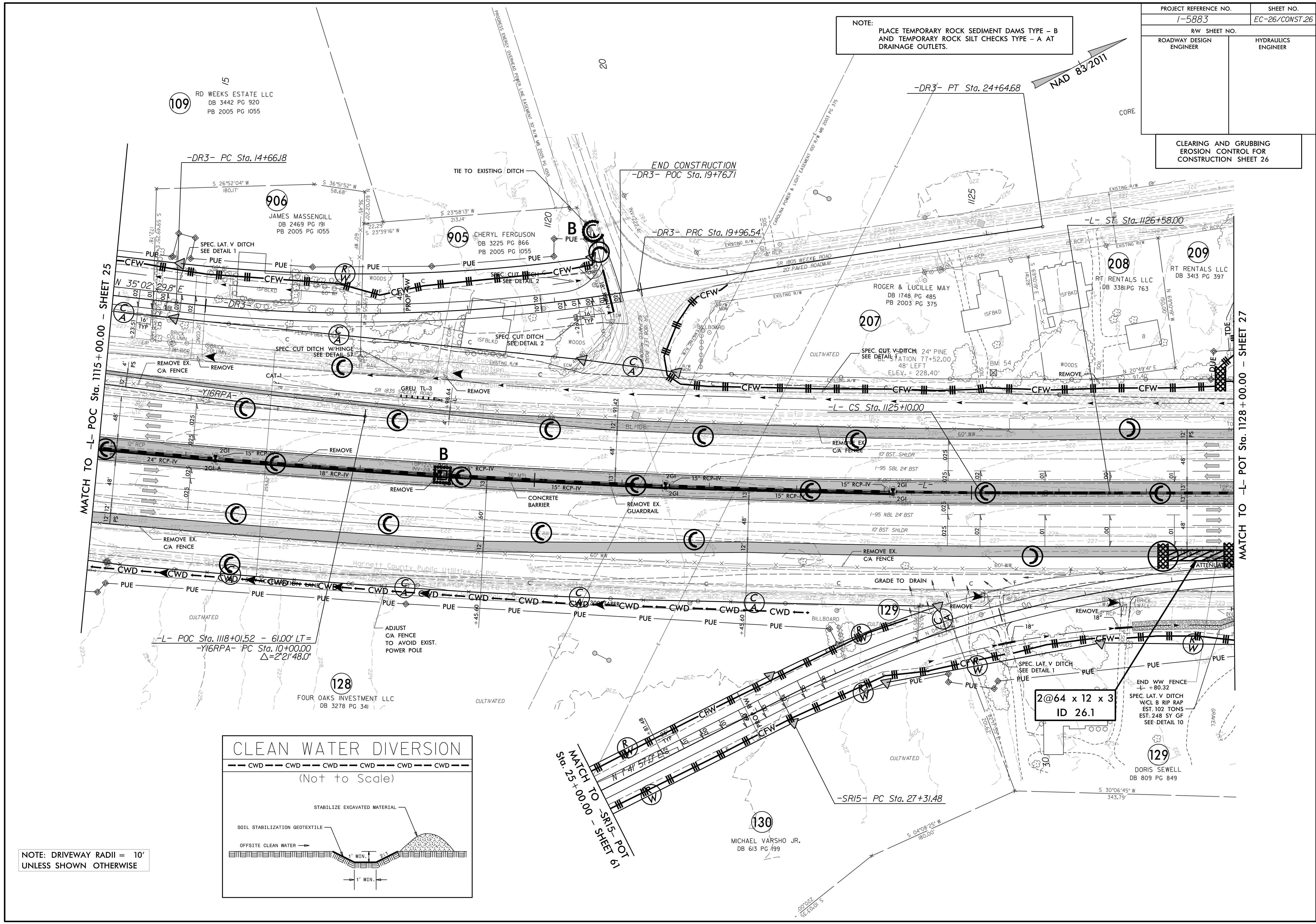
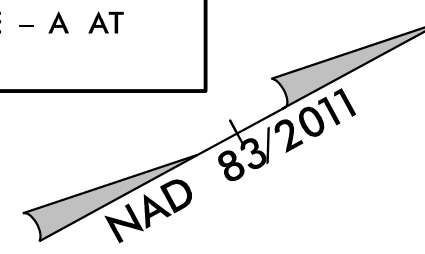
**NOTE:**  
 PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.  
 INSTALL PREIS IN JURISDICTIONAL AREAS WITHOUT IMPACTING STREAM UNTIL AREA STABILIZED AND ACCORDING TO NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

PROJECT REFERENCE NO.	7-5683
SHEET NO.	EC-25/CWST-25
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	FORBES/ELLS ENGINEERS
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 25	



PROJECT REFERENCE NO.		SHEET NO.	
1-5883		EC-26/CONST.26	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 26			

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



109 RD WEEKS ESTATE LLC  
DB 3442 PG 920  
PB 2005 PG 1055

906 JAMES MASSENGILL  
DB 2469 PG 191  
PB 2005 PG 1055

905 CHERYL FERGUSON  
DB 3225 PG 866  
PB 2005 PG 1055

207 ROGER & LUCILLE MAY  
DB 1748 PG 485  
PB 2003 PG 375

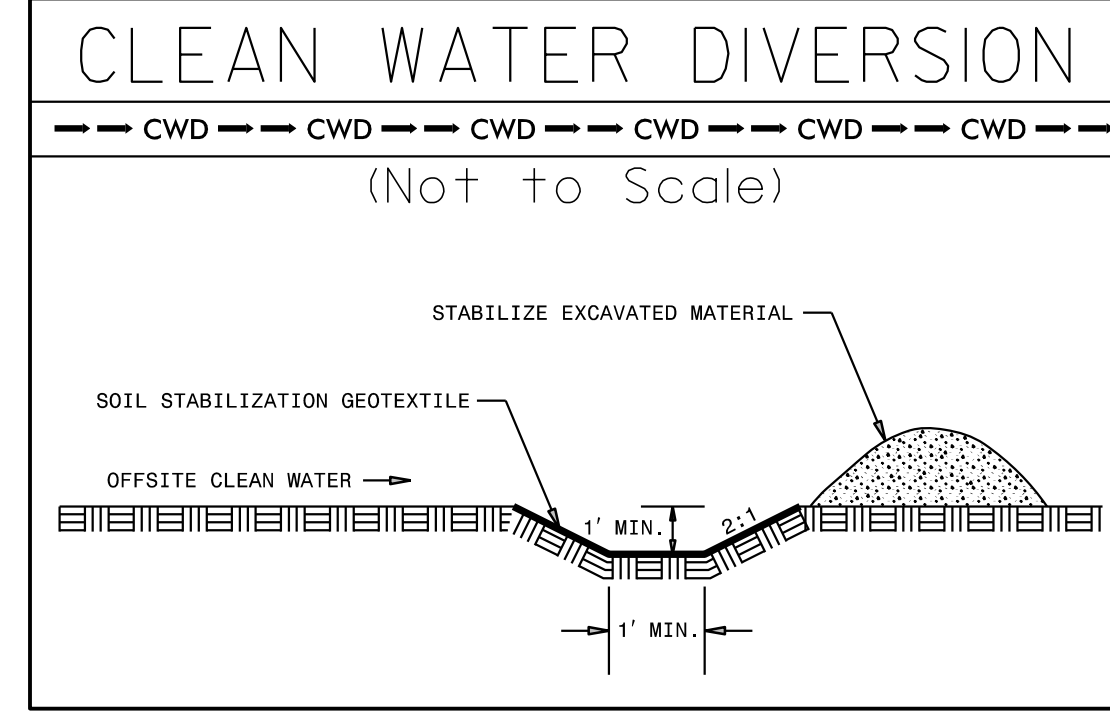
208 RT RENTALS LLC  
DB 3381 PG 763

209 RT RENTALS LLC  
DB 3413 PG 397

128 FOUR OAKS INVESTMENT LLC  
DB 3278 PG 341

130 MICHAEL VARSHO JR.  
DB 613 PG 499

129 DORIS SEWELL  
DB 809 PG 849



NOTE: DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE

MATCH TO -L- POC Sta. 1115+00.00 - SHEET 25

MATCH TO -L- POT Sta. 1128+00.00 - SHEET 27

MATCH TO -SR15- POT  
Sta. 25+00.00 - SHEET 61

END CONSTRUCTION  
-DR3- POC Sta. 19+76.71

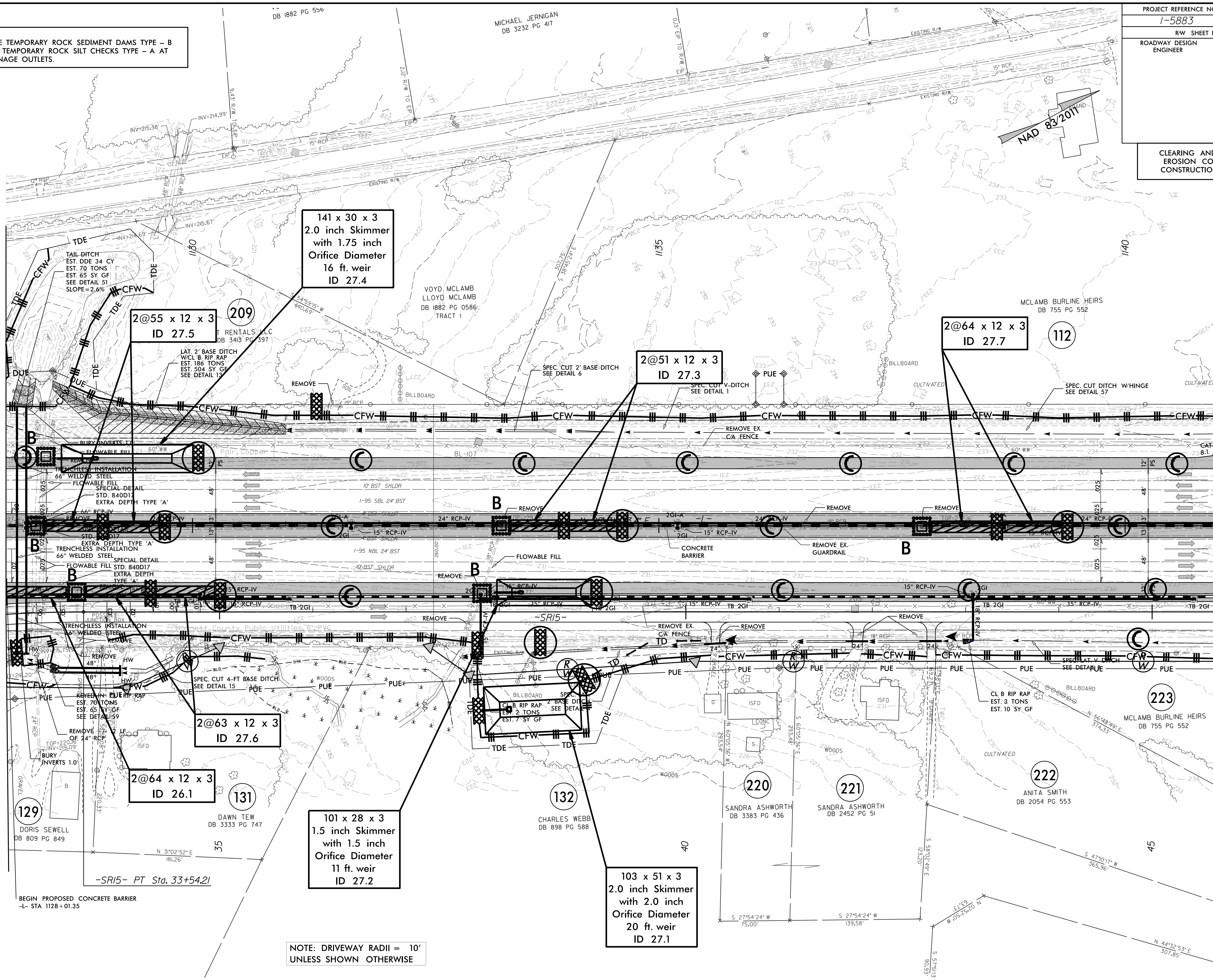
2@64 x 12 x 3  
ID 26.1

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

PROJECT REFERENCE NO. 1-5883	SHEET NO. EC-27/CONST.27
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 27	

MATCH TO -L- POT Sta. 1128+00.00 - SHEET 26

MATCH TO -L- POT Sta. 1141+00.00 - SHEET 28



NOTE: DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE

# 2@66" TRENCHLESS WELDED STEEL CONSTRUCTION SEQUENCE STA. 1128+17 -L- UT TO STONY RUN (HANNAS POND)

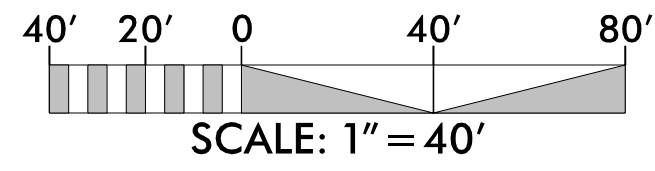
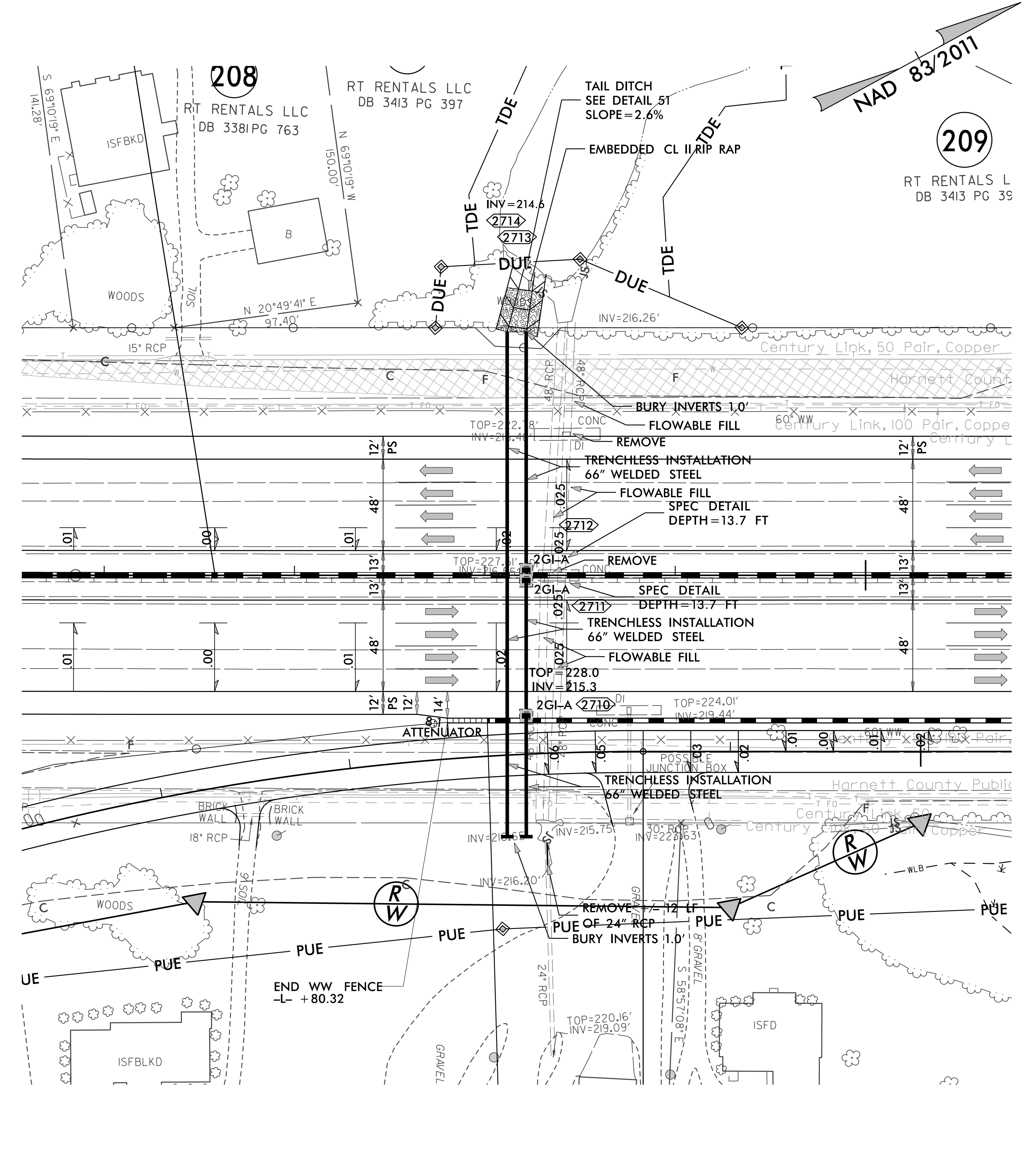
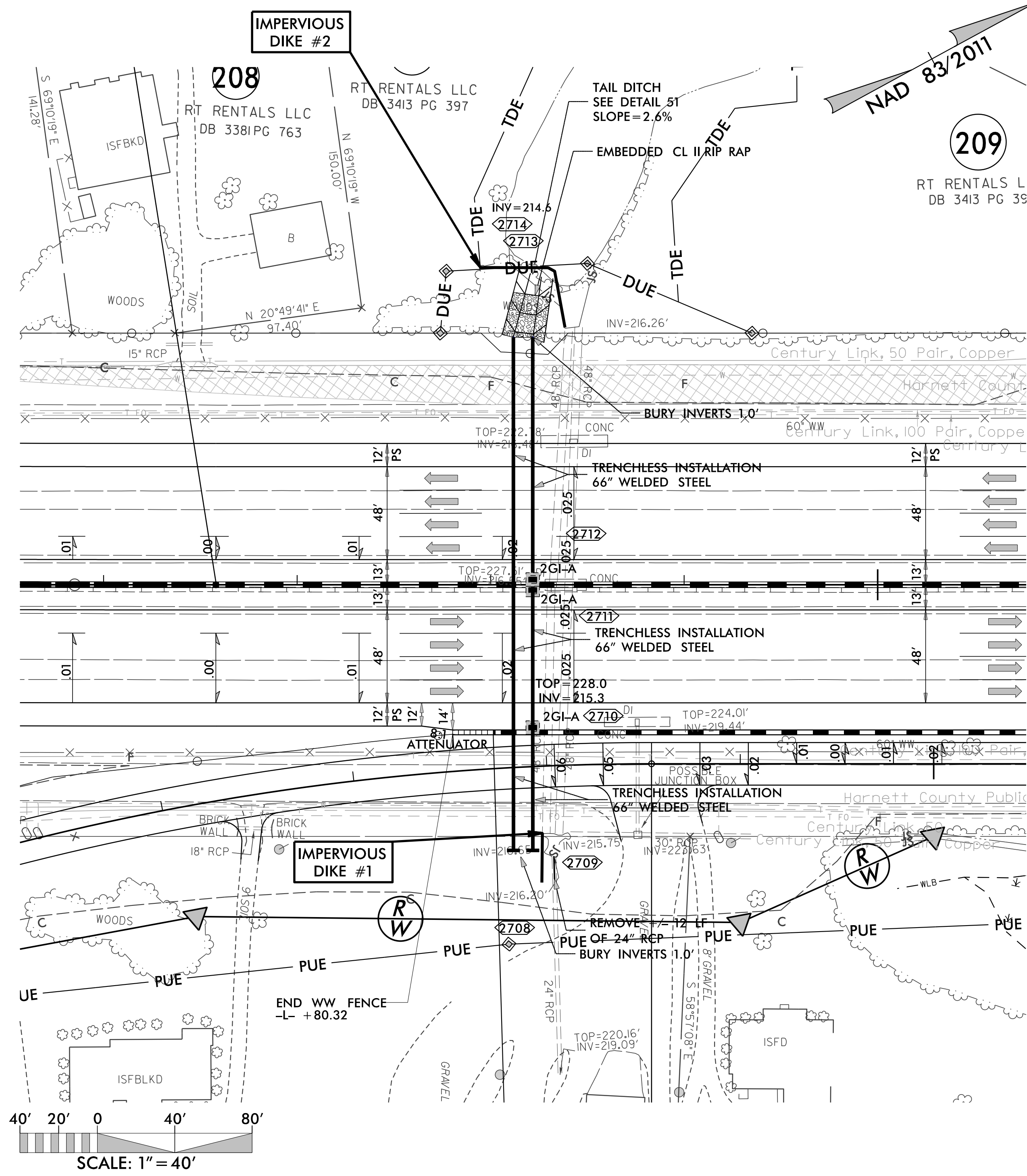
PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-27A/CONST.27
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

## PHASE I

- 1.) UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED THROUGHOUT 2@66" TRENCHLESS WELDED STEEL PIPES CONSTRUCTION.
- 2.) INSTALL IMPERVIOUS DIKES, AS NOTED ON PLANS.
- 3.) DEWATER CONSTRUCTION AREA UTILIZING SPECIAL STILLING BASIN(S) FOR PUMPED EFFLUENT.
- 4.) CONSTRUCT TAIL DITCH, INSTALL 2@66" TRENCHLESS WELDED STEEL PIPES, ASSOCIATED HEADWALLS, AND RESPECTIVE 2GI-A'S, AS NOTED ON PLANS.
- 5.) REMOVE +/- 12' OF EXISTING 24" RCP.
- 5.) EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKES.
- 6.) REMOVE ANY REMAINING SPECIAL STILLING BASIN(S) AND IMPERVIOUS DIKES.
- 7.) DIVERT FLOW THROUGH 2@66" TRENCHLESS WELDED STEEL PIPES.

## PHASE II

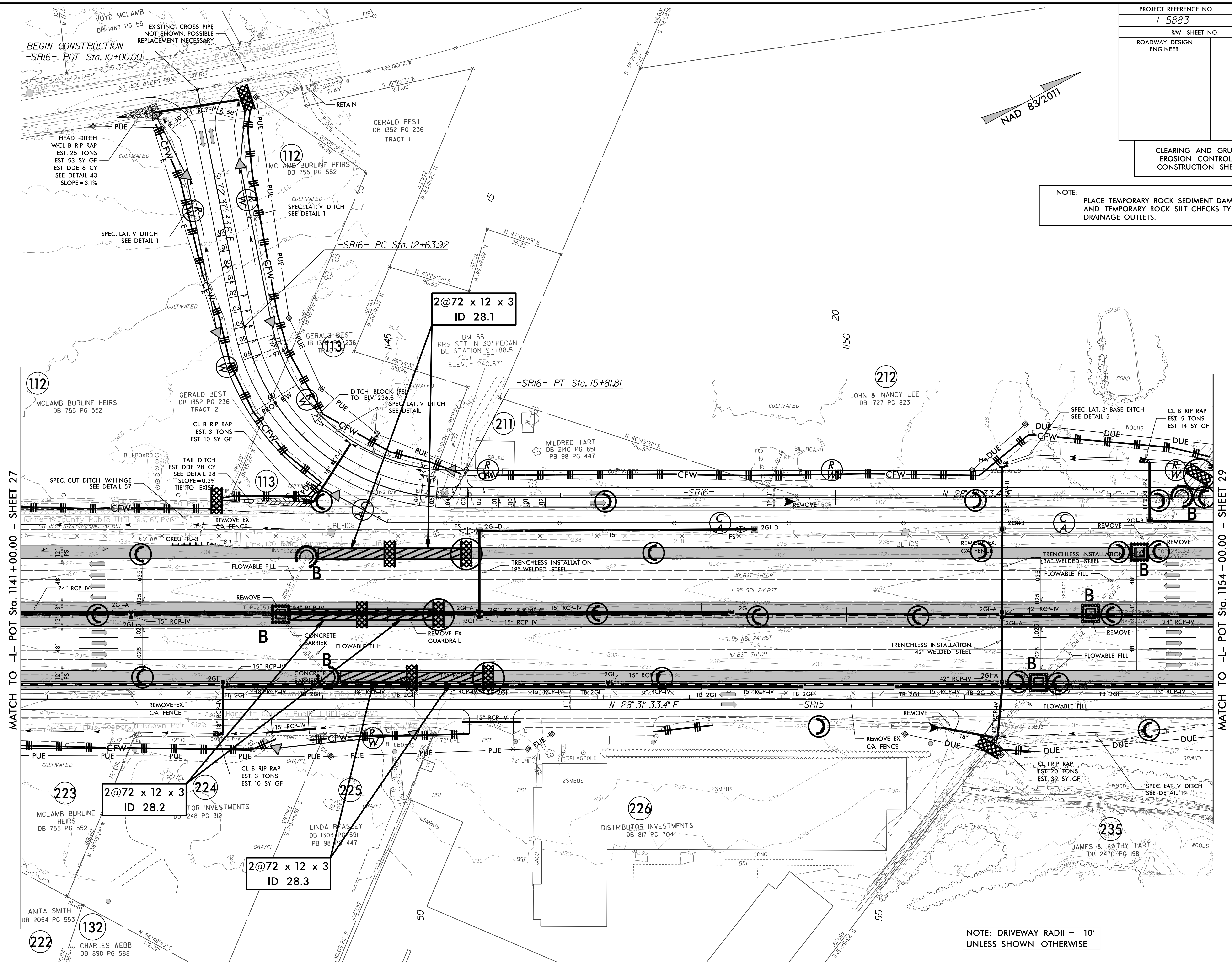
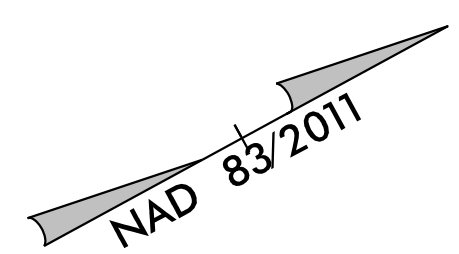
- 1.) FILL EXISTING 48" RCP WITH FLOWABLE FILL AND REMOVE DI'S.
- 2.) COMPLETE ROADWAY.



PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-28/CONST.28
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 28

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



MATCH TO -L- POT Sta. 1141 + 00.00 - SHEET 27

MATCH TO -L- POT Sta. 1154 + 00.00 - SHEET 29

2@72 x 12 x 3  
ID 28.2

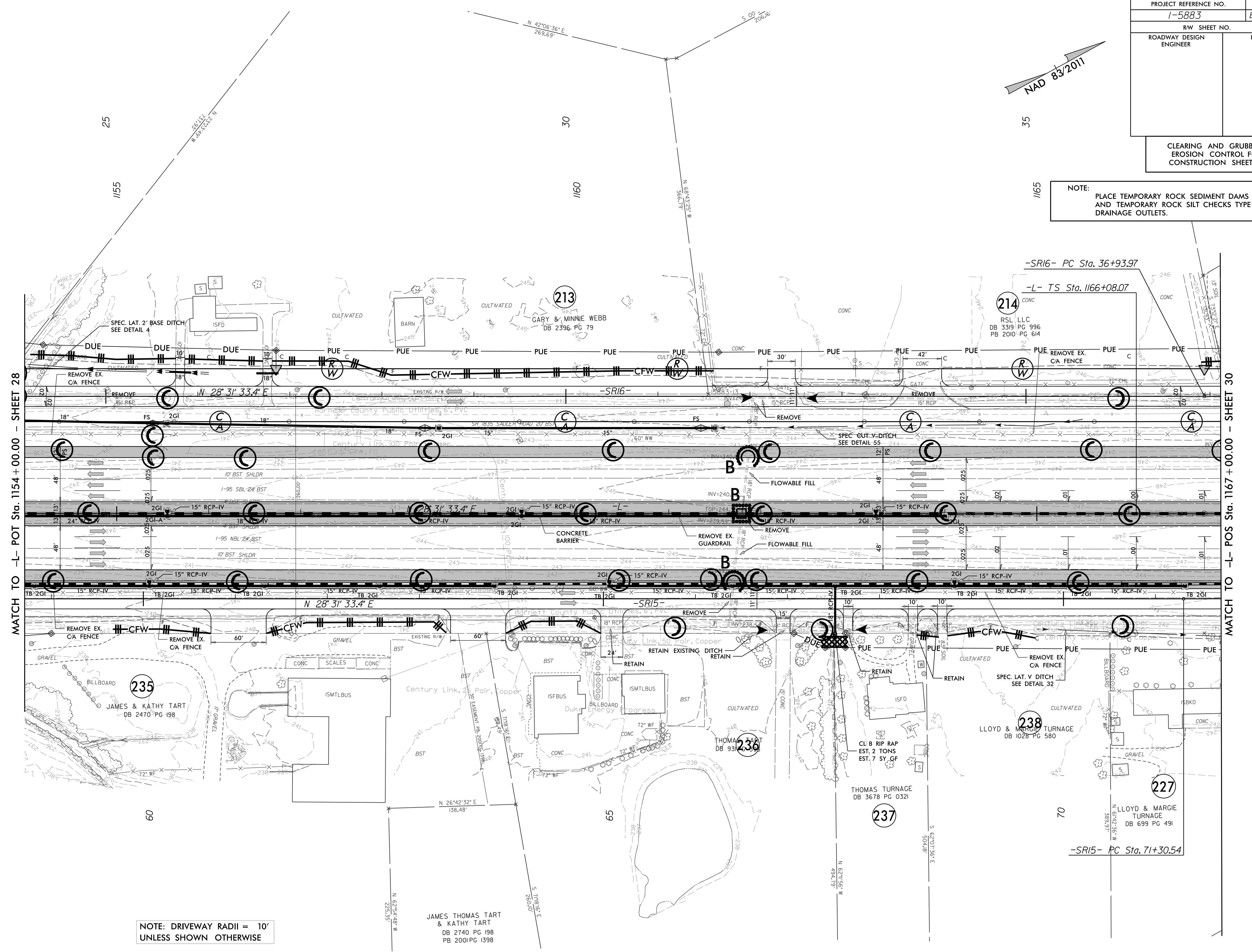
2@72 x 12 x 3  
ID 28.3

NOTE: DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE

PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-29/CONST.29
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 29

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



MATCH TO -L- POT Sta. 1154+00.00 - SHEET 28

MATCH TO -L- POS Sta. 1167+00.00 - SHEET 30

NOTE: DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE

JAMES THOMAS TART  
& KATHY TART  
DB 2740 PG 198  
PB 2001 PG 1398

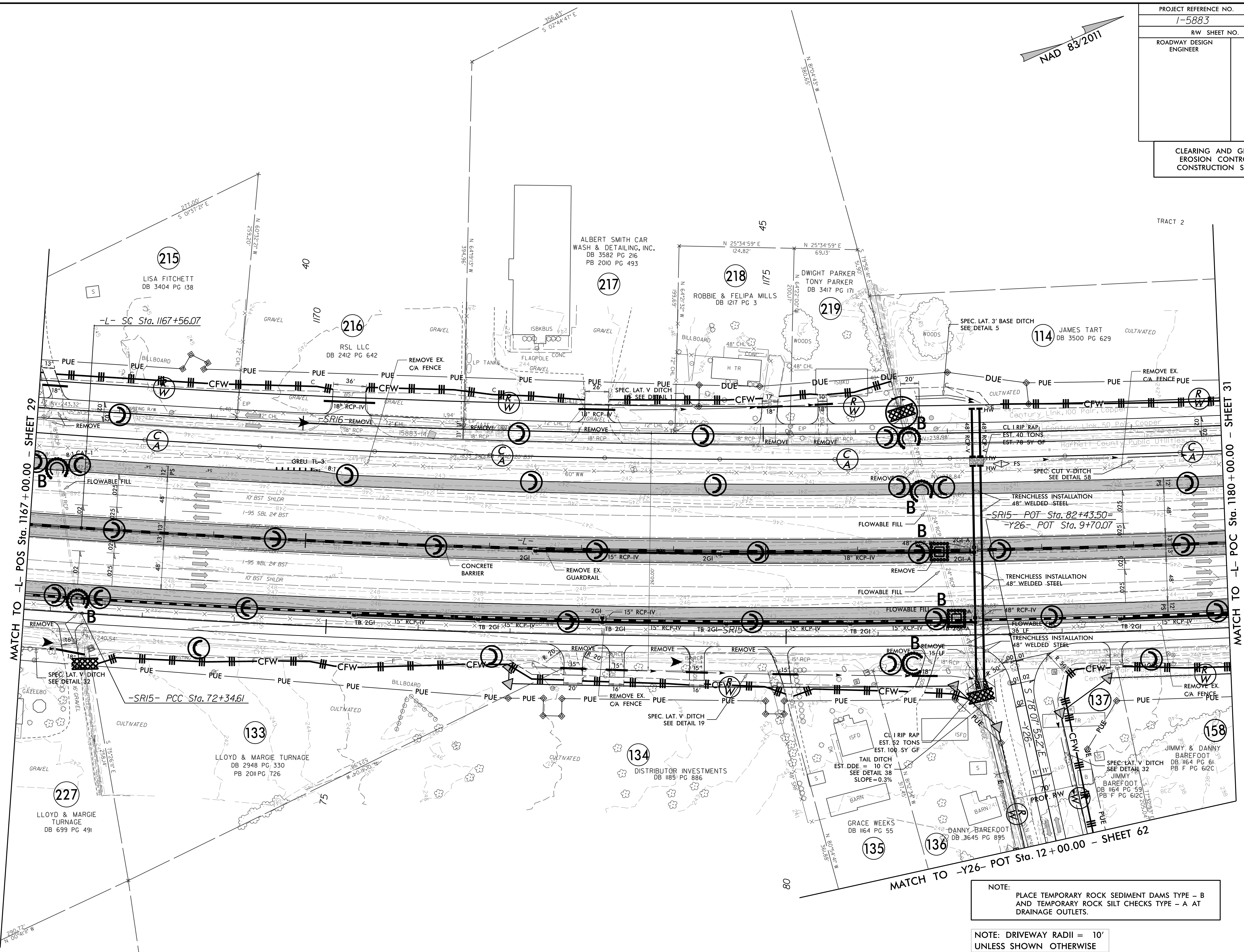
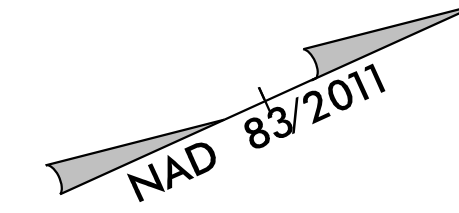
-SR15- PC Sta. 71+30.54

-SR16- PC Sta. 36+93.97

-L- TS Sta. 1166+08.07

PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-30/CONST.30
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 30



MATCH TO -L- POS Sta. 1167+00.00 - SHEET 29

MATCH TO -L- POC Sta. 1180+00.00 - SHEET 31

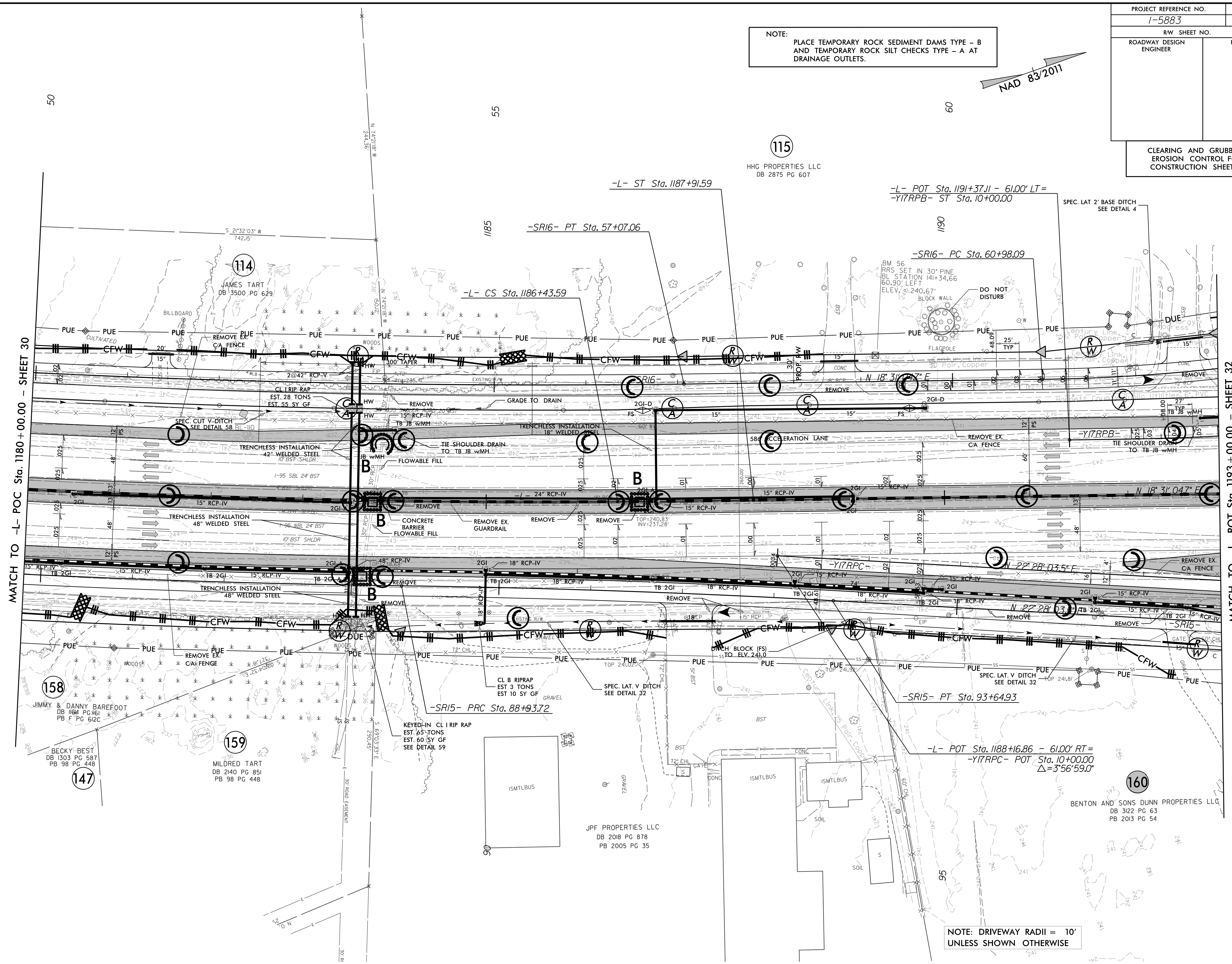
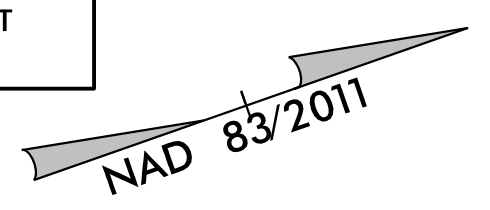
MATCH TO -Y26- POT Sta. 12+00.00 - SHEET 62

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

NOTE: DRIVEWAY RADI = 10'  
UNLESS SHOWN OTHERWISE

PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-31/CONST.31
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 31	

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



MATCH TO -L- POC Sta. 1180+00.00 - SHEET 30

MATCH TO -L- POT Sta. 1193+00.00 - SHEET 32

NOTE: DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE

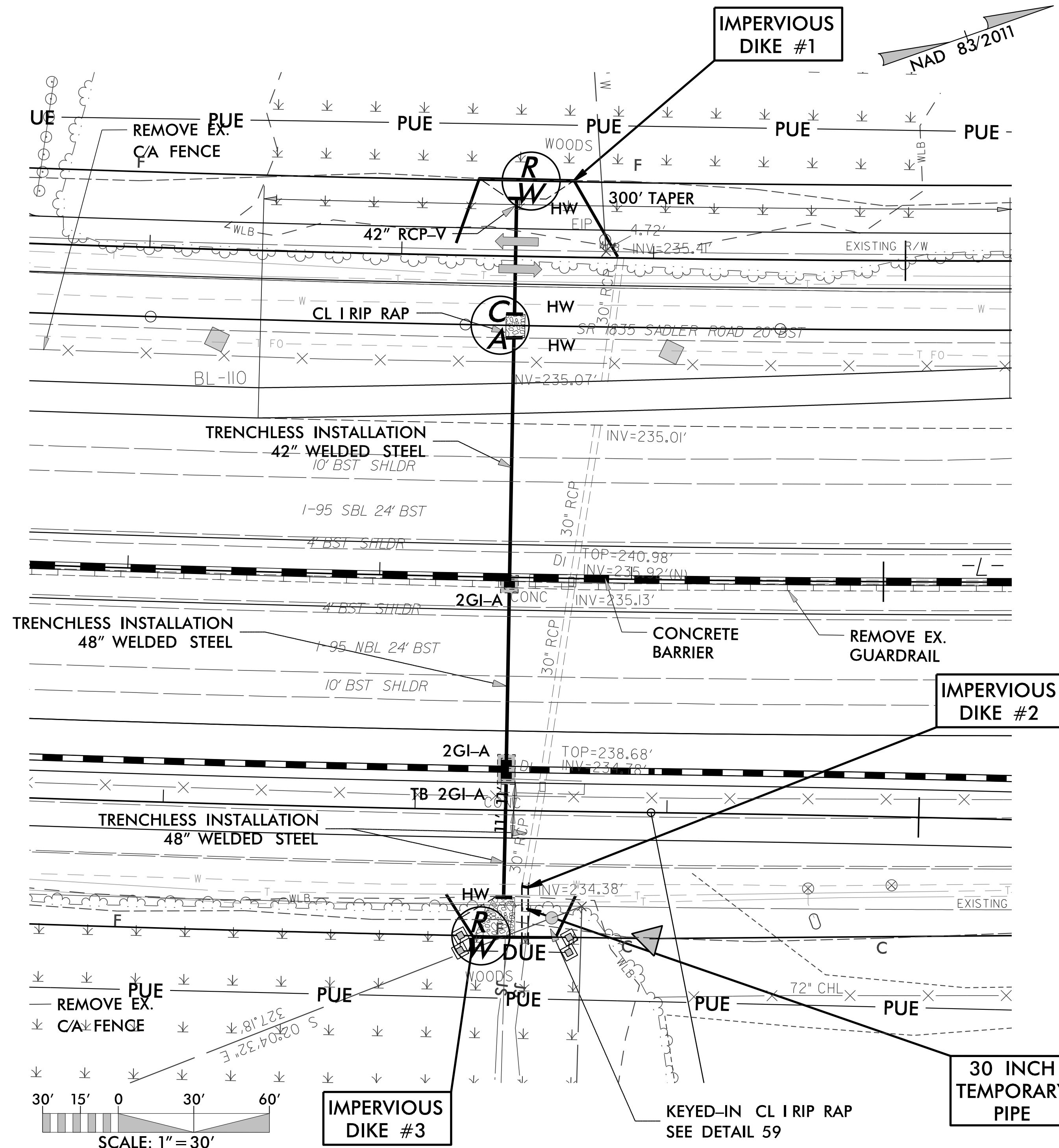


# 2@48" WELDED STEEL CONSTRUCTION SEQUENCE STA. 1183 + 56 -L- UT TO MINGO SWAMP

PROJECT REFERENCE NO. 1-5883	SHEET NO. EC-31A/CONST.31
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

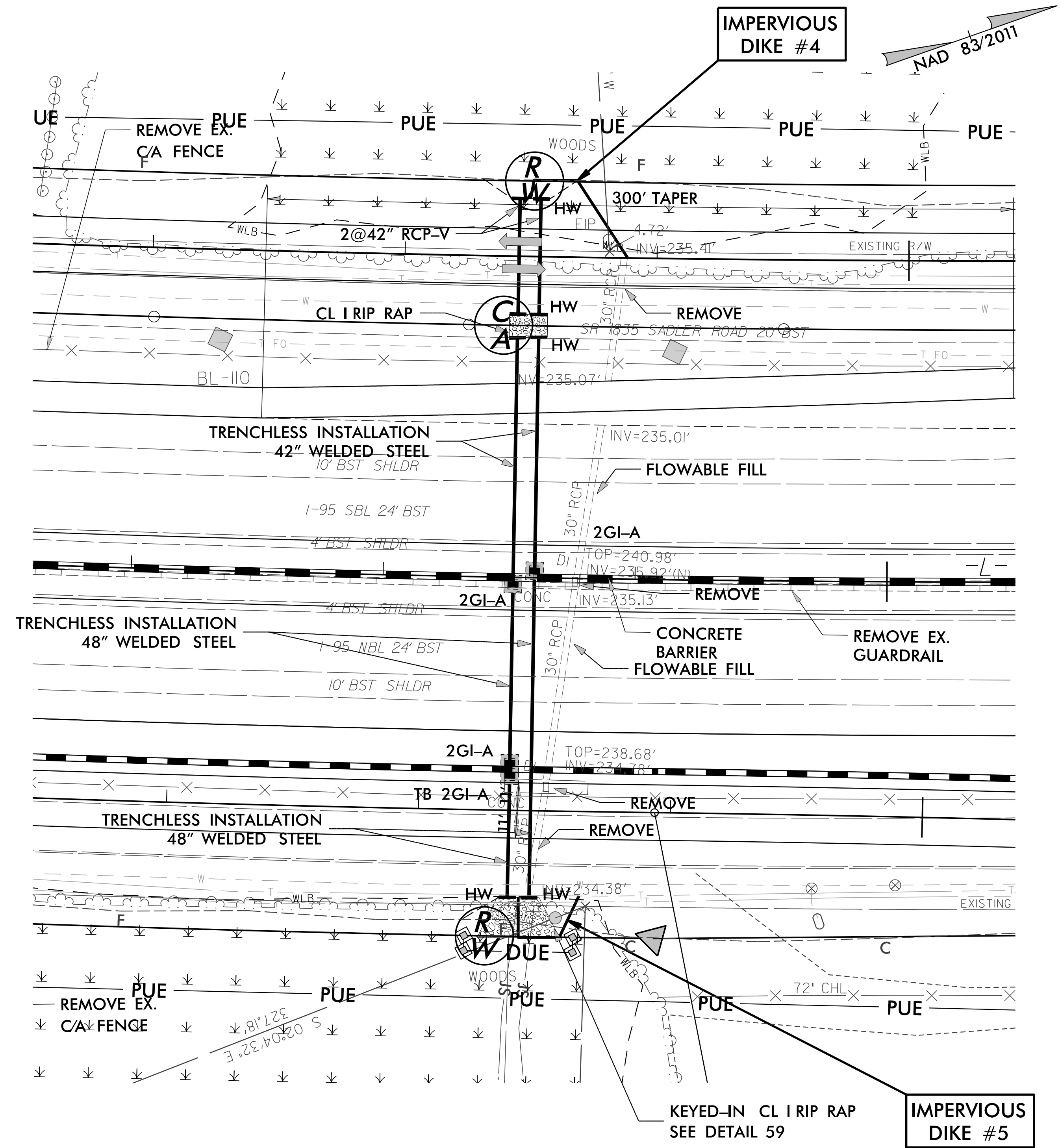
## PHASE I

- UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED THROUGHOUT 2@48" TRENCHLESS WELDED STEEL PIPES INSTALLATION.
- INSTALL TEMPORARY 30" PIPE AND IMPERVIOUS DIKES #1, #2, AND #3.
- DEWATER CONSTRUCTION AREA UTILIZING SPECIAL STILLING BASIN(S) FOR PUMPED EFFLUENT.
- INSTALL SOUTHERNMOST TRENCHLESS 48" WELDED STEEL PIPE (UNDERNEATH -L- NORTHBOUND LANES AND -SR15-) WITH RESPECTIVE HEADWALL AND ASSOCIATED 2GI-A'S.
- INSTALL KEYED-IN CL I RIP RAP AT OUTLET OF SOUTHERNMOST TRENCHLESS 48" WELDED STEEL PIPE.
- INSTALL SOUTHERNMOST TRENCHLESS 42" WELDED STEEL PIPE (UNDERNEATH -L- SOUTHBOUND LANES) WITH RESPECTIVE HEADWALL.
- INSTALL SOUTHERNMOST 42" RCP-V (UNDERNEATH -SR16-) WITH RESPECTIVE HEADWALLS.
- INSTALL CL I RIP RAP AT OUTLET OF SOUTHERNMOST 42" RCP-V.
- EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKES.



## PHASE II

- REMOVE IMPERVIOUS DIKES #1, #2, AND #3 AND TEMPORARY 30" PIPE.
- INSTALL IMPERVIOUS DIKES #4 AND #5.
- DIVERT FLOW THROUGH SOUTHERNMOST 42" RCP-V.
- REMOVE EXISTING DI'S.
- EXISTING 30" RCP'S SHALL BE REMOVED OR FILLED WITH FLOWABLE FILL, AS NOTED ON PLANS.
- INSTALL NORTHERNMOST TRENCHLESS 48" WELDED STEEL PIPE (UNDERNEATH -L- NORTHBOUND LANES AND -SR15-) WITH RESPECTIVE HEADWALL AND ASSOCIATED 2GI-A.
- INSTALL REMAINDER OF CL I RIP RAP EMBEDDED IN CHANNEL.
- INSTALL NORTHERNMOST TRENCHLESS 42" WELDED STEEL PIPE (UNDERNEATH -L- SOUTHBOUND LANES) WITH RESPECTIVE HEADWALL.
- INSTALL NORTHERNMOST 42" RCP-V (UNDERNEATH -SR16-) WITH RESPECTIVE HEADWALLS.
- INSTALL REMAINDER OF CL I RIP RAP AT OUTLET OF NORTHERNMOST 42" RCP-V.
- EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKES.
- REMOVE ANY REMAINING SPECIAL STILLING BASIN(S) AND IMPERVIOUS DIKES.
- DIVERT FLOW THROUGH 2@42" RCP-V'S.
- COMPLETE ROADWAY.

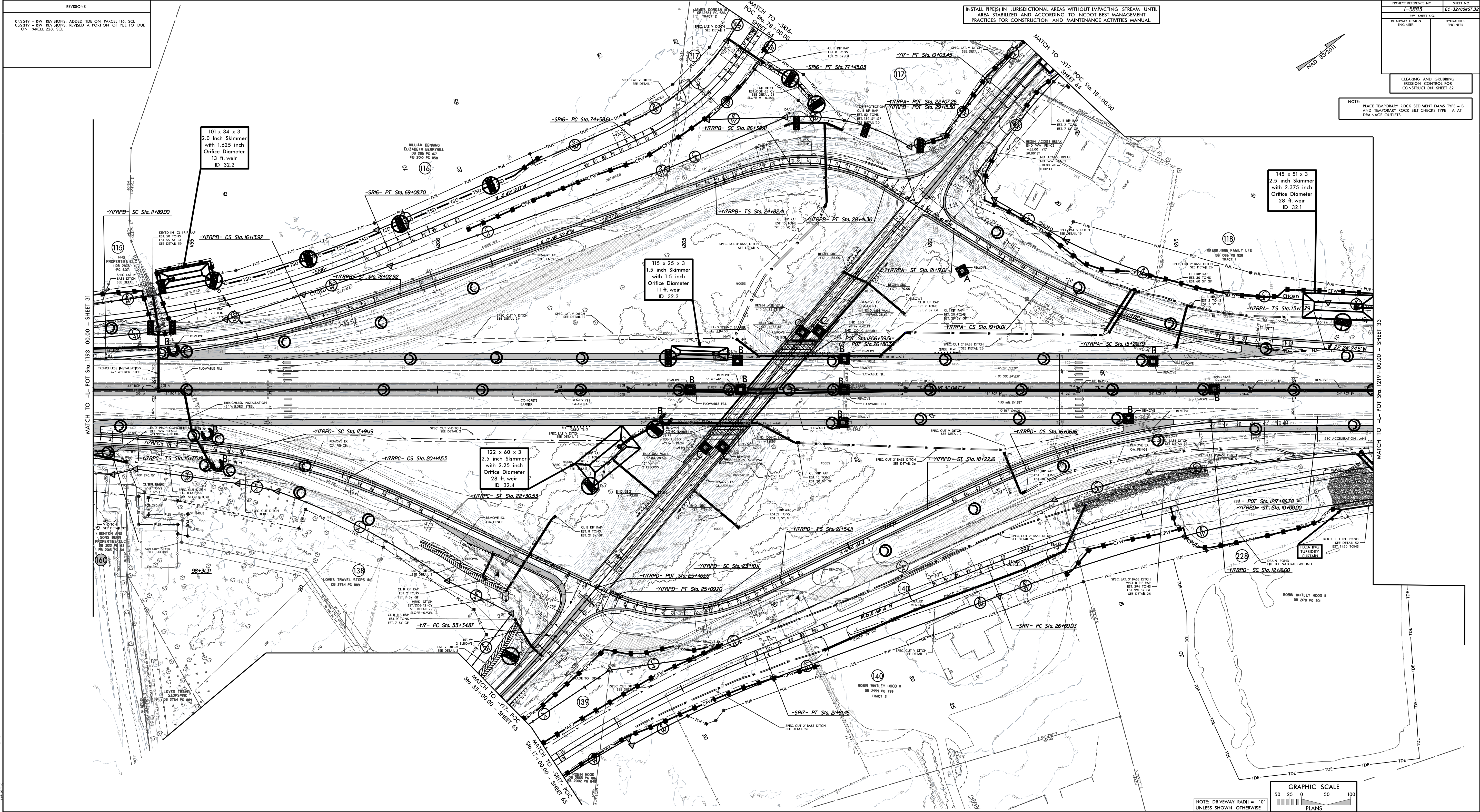


REVISIONS	
04/23/19	- RW REVISIONS ADDED TDE ON PARCEL 116, SCL 02/23/19 - RW REVISIONS REVISED A PORTION OF PUE TO DUE ON PARCEL 228, SCL

PROJECT REFERENCE NO.	7-5887
SHEET NO.	EC-32/CWST-32
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	
HYDRAULICS ENGINEER	

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 32

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

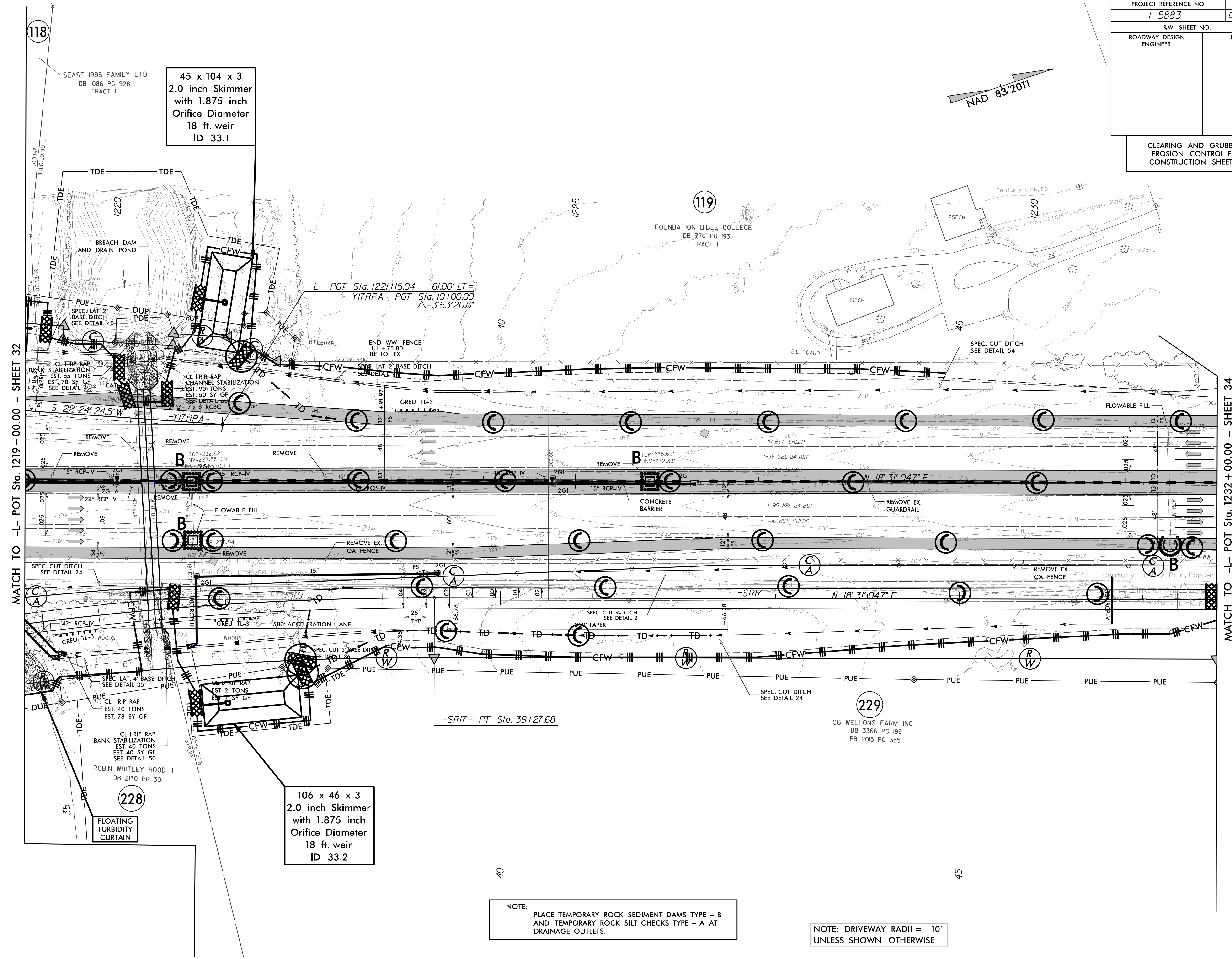
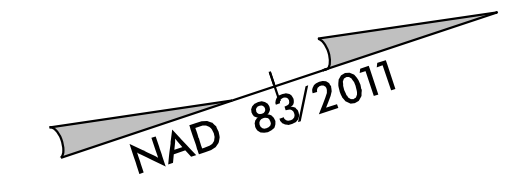


NOTE: DRIVEWAY RADII = 10' UNLESS SHOWN OTHERWISE

GRAPHIC SCALE  
50 25 0 50 100  
PLANS

PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-33/CONST.33
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 33



45 x 104 x 3  
2.0 inch Skimmer  
with 1.875 inch  
Orifice Diameter  
18 ft. weir  
ID 33.1

106 x 46 x 3  
2.0 inch Skimmer  
with 1.875 inch  
Orifice Diameter  
18 ft. weir  
ID 33.2

228  
FLOATING  
TURBIDITY  
CURTAIN

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

NOTE: DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE

MATCH TO -L- POT Sta. 1219 + 00.00 - SHEET 32

MATCH TO -L- POT Sta. 1232 + 00.00 - SHEET 34

40

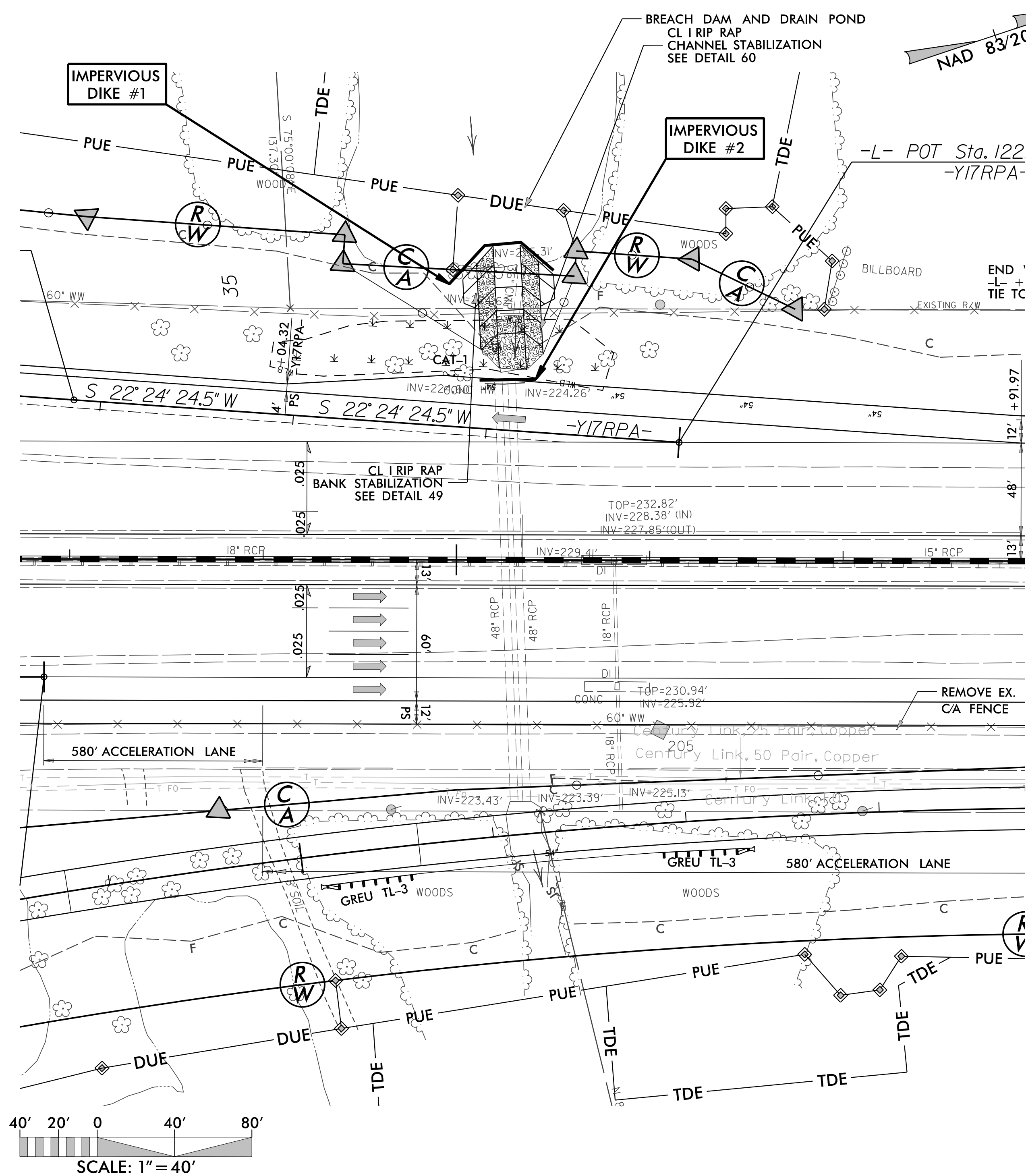
45

# 2@7'X6' RCBC CONSTRUCTION SEQUENCE STA. 1220 + 34 -L- UT TO MINGO SWAMP

PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-33A/CONST.33
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

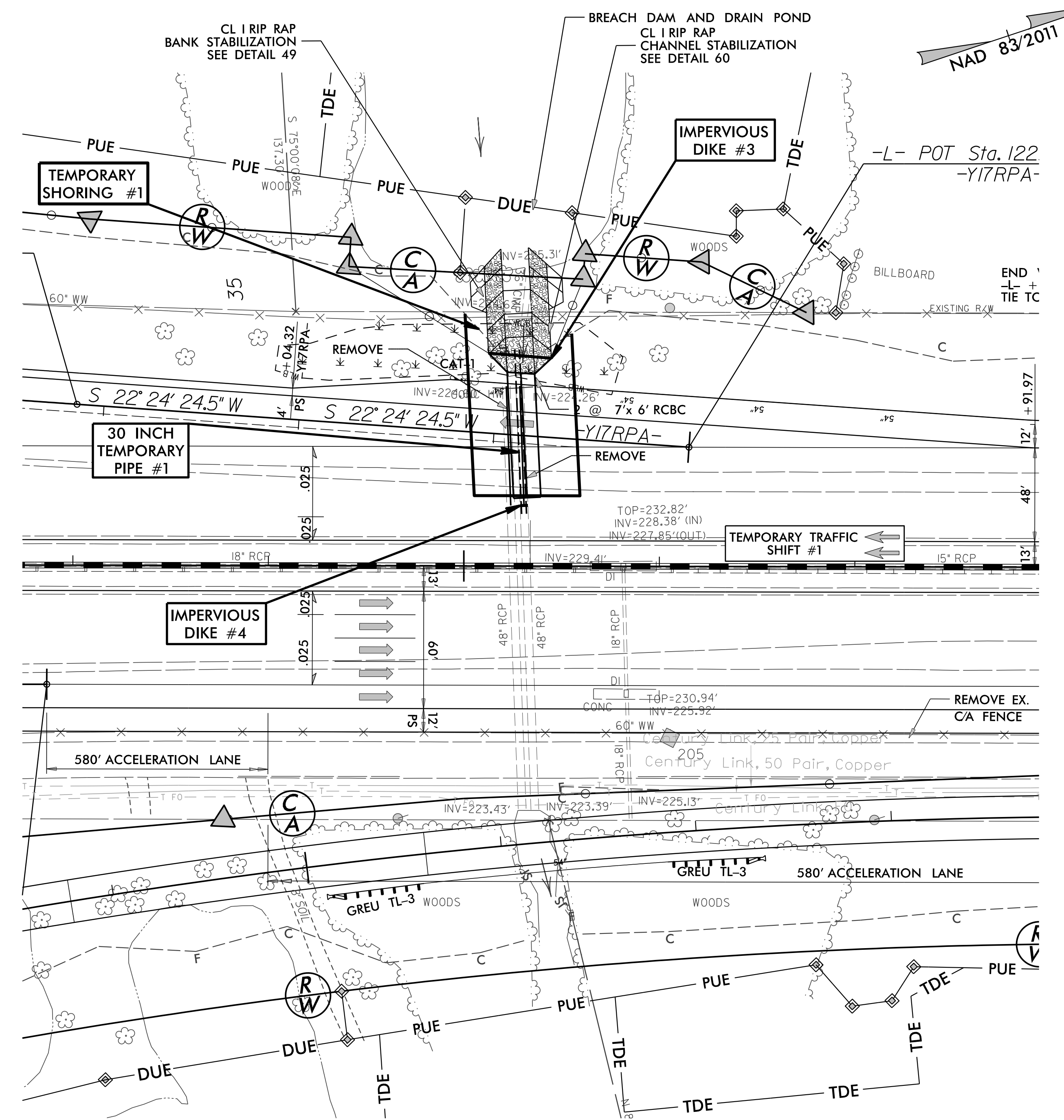
## PHASE I

- 1.) UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED THROUGHOUT CULVERT CONSTRUCTION.
- 5.) DRAIN POND IN ACCORDANCE WITH THE PLANS.
- 2.) INSTALL UPSTREAM PUMP AND TEMPORARY FLEXIBLE HOSE.
- 3.) INSTALL IMPERVIOUS DIKES #1 AND #2 AND BEGIN PUMPING OPERATIONS FOR STREAM DIVERSION.
- 4.) DEWATER CONSTRUCTION AREA UTILIZING SPECIAL STILLING BASIN(S) FOR PUMPED EFFLUENT.
- 6.) REMOVE 36" CMP AND EXISTING END WALL.
- 7.) CONSTRUCT CULVERT INLET CHANNEL AND INSTALL CL 1 RIP RAP BANK AND CHANNEL STABILIZATION.
- 8.) EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKES.



## PHASE II

- 1.) REMOVE IMPERVIOUS DIKES #1 AND #2, PUMP, AND TEMPORARY FLEXIBLE HOSE.
- 2.) CONSTRUCT TEMPORARY SHORING #1 AND TEMPORARY TRAFFIC SHIFT #1.
- 3.) INSTALL IMPERVIOUS DIKES #3 AND #4, REMOVE +/- 61' OF EXISTING 2@48" RCP'S AND HEADWALL AT INLET END, AND INSTALL TEMPORARY 30" PIPE #1.
- 4.) DEWATER CONSTRUCTION AREA UTILIZING SPECIAL STILLING BASIN(S) FOR PUMPED EFFLUENT.
- 5.) CONSTRUCT +/- 63' OF PROPOSED BOX CULVERT AT INLET END.
- 6.) REMOVE ANY REMAINING SPECIAL STILLING BASIN(S) AND TEMPORARY SHORING #1.

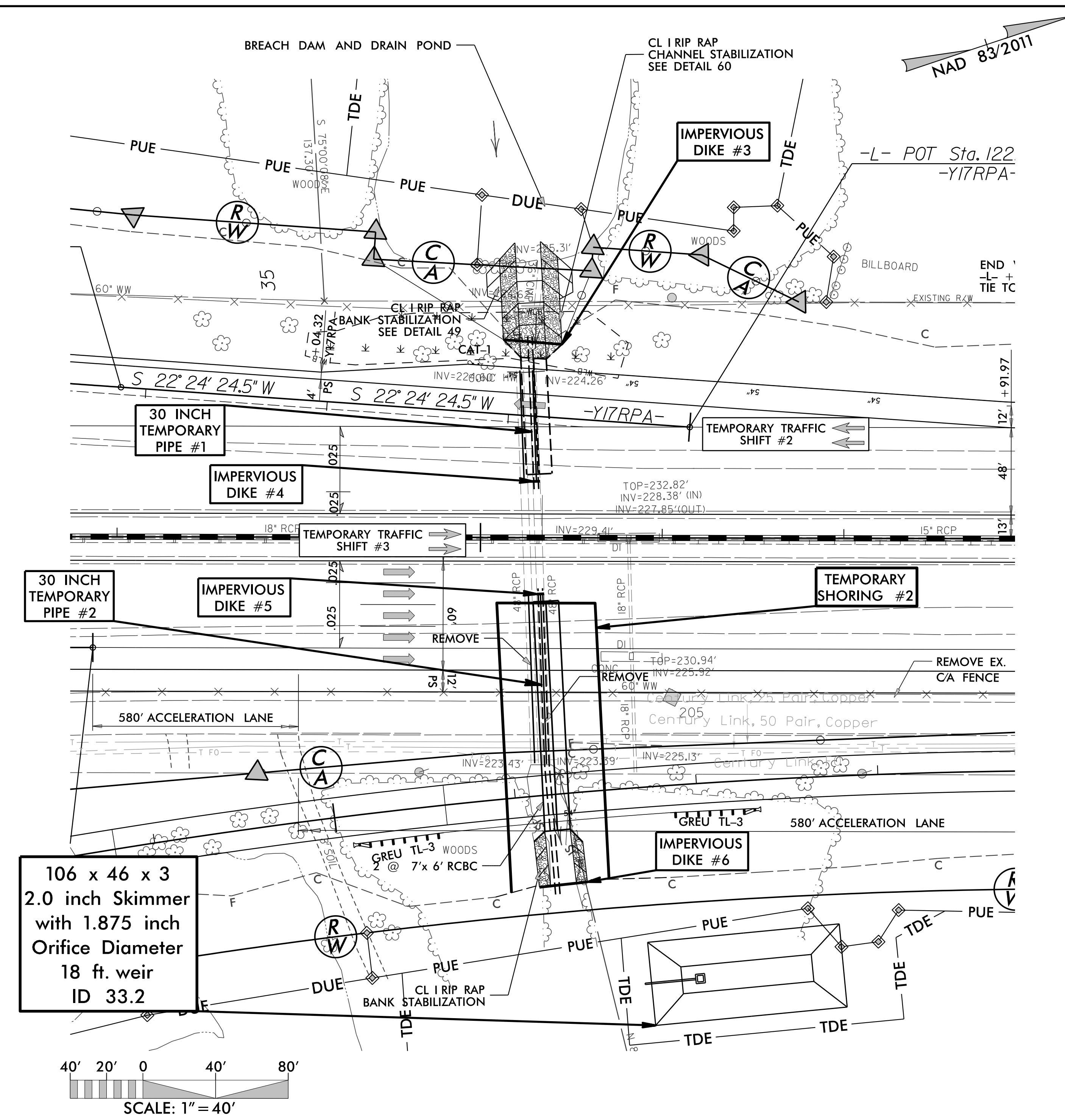


# 2@7'X6' RCBC CONSTRUCTION SEQUENCE STA. 1220 + 34 -L- UT TO MINGO SWAMP

PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-33B/CONST.33
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

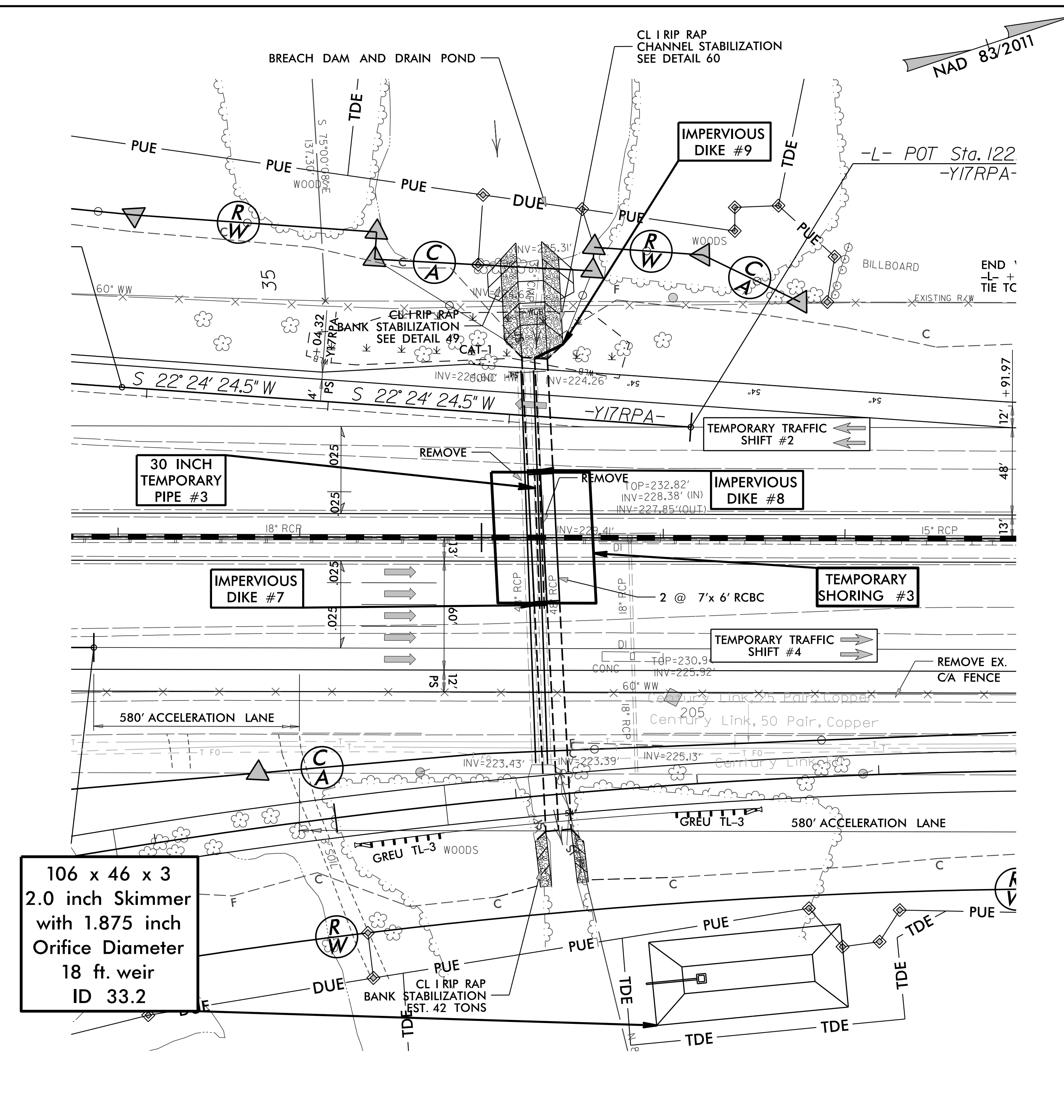
## PHASE III

- 1.) CONSTRUCT TEMPORARY SHORING #2 AND TEMPORARY TRAFFIC SHIFTS #2 AND #3.
- 2.) SHIFT TRAFFIC FROM TEMPORARY TRAFFIC SHIFT #1 TO TEMPORARY TRAFFIC SHIFT #2.
- 3.) CONSTRUCT SKIMMER BASIN 33.2 TO BE UTILIZED AS A STILLING BASIN FOR DEWATERING.
- 4.) INSTALL IMPERVIOUS DIKES #5 AND #6, REMOVE +/- 94' OF EXISTING 2@48" CMP'S, AND INSTALL TEMPORARY 30" PIPE #2.
- 5.) DEWATER CONSTRUCTION AREA UTILIZING SKIMMER BASIN 33.2 FOR PUMPED EFFLUENT.
- 6.) CONSTRUCT +/- 126' OF PROPOSED BOX CULVERT AT OUTLET END AND INSTALL CL 1 RIP RAP ON BANKS ONLY.
- 7.) EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKES.
- 8.) REMOVE IMPERVIOUS DIKES, TEMPORARY 30" PIPES, AND TEMPORARY SHORING #2.



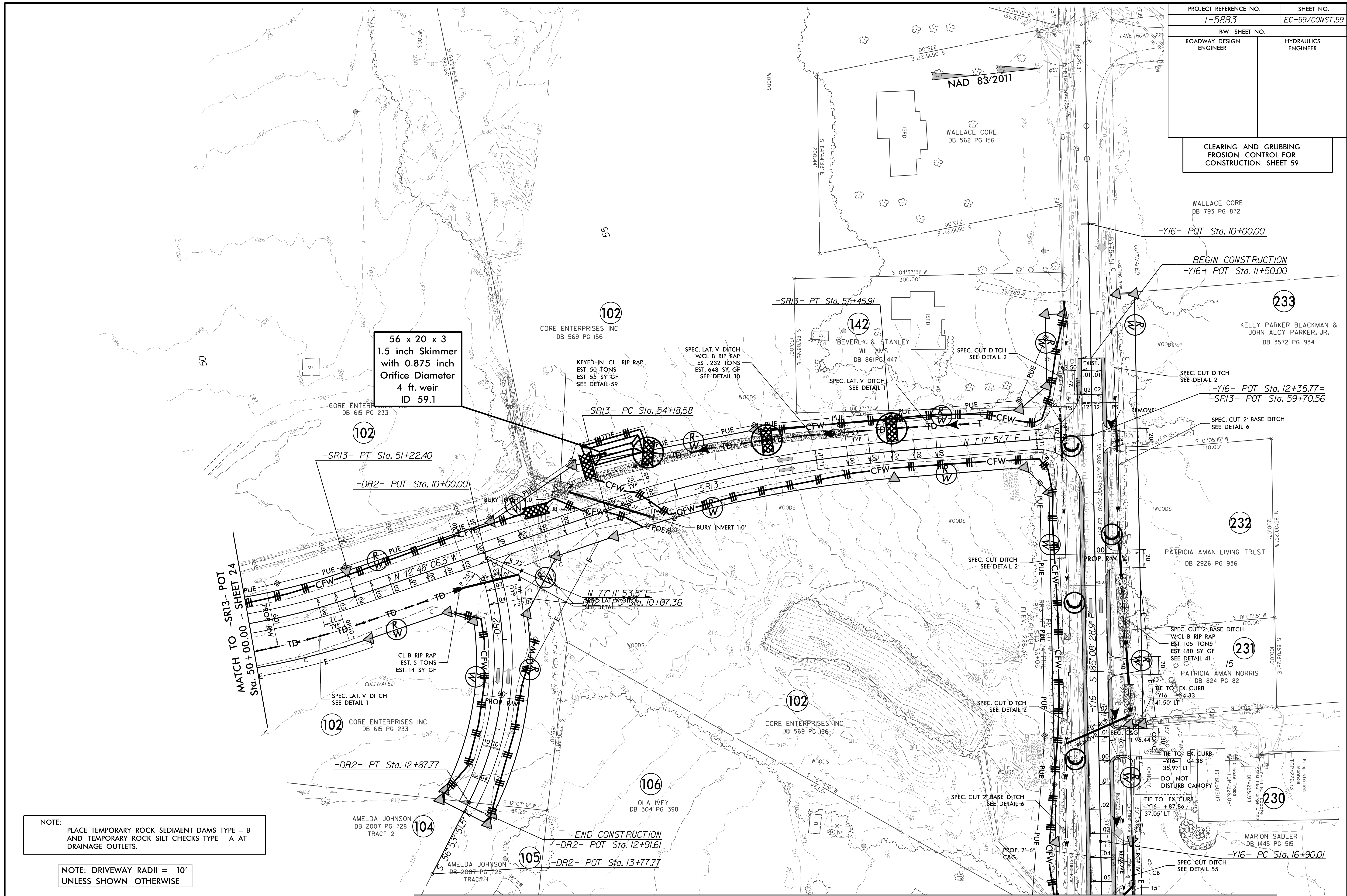
## PHASE IV

- 1.) CONSTRUCT TEMPORARY TRAFFIC SHIFT #4.
- 2.) SHIFT TRAFFIC FROM TEMPORARY TRAFFIC SHIFT #3 TO TEMPORARY TRAFFIC SHIFT #4.
- 3.) CONSTRUCT TEMPORARY SHORING #3.
- 4.) INSTALL IMPERVIOUS DIKES #7, #8, AND #9, REMOVE REMAINING EXISTING 2@48" RCP'S, AND INSTALL TEMPORARY 30" PIPE #3.
- 5.) DIVERT FLOW THROUGH SOUTHERN BARREL.
- 6.) DEWATER CONSTRUCTION AREA UTILIZING SKIMMER BASIN 33.2 FOR PUMPED EFFLUENT.
- 7.) CONSTRUCT REMAINING PROPOSED BOX CULVERT.
- 8.) EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKES.
- 9.) REMOVE IMPERVIOUS DIKES, TEMPORARY 30" PIPE #3, AND TEMPORARY SHORING #3, AND DIVERT FLOW THROUGH 2@7'X6' RCBC.
- 10.) REMOVE TEMPORARY TRAFFIC SHIFTS #2 AND #4 AND COMPLETE ROADWAY.



PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-59/CONST.59
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 59



56 x 20 x 3  
1.5 inch Skimmer  
with 0.875 inch  
Orifice Diameter  
4 ft weir  
ID 59.1

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

NOTE: DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE

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

MATCH TO -SRI3- POT  
Sta. 50+00.00 - SHEET 24

MATCH TO -Y16- POC Sta. 17+50.00 - SHEET 25

END CONSTRUCTION  
-DR2- POT Sta. 12+91.61

-DR2- POT Sta. 13+77.77

-Y16- POT Sta. 10+00.00

BEGIN CONSTRUCTION  
-Y16- POT Sta. 11+50.00

-Y16- POT Sta. 12+35.77=  
-SRI3- POT Sta. 59+70.56

SPEC. CUT 2' BASE DITCH  
SEE DETAIL 6

SPEC. CUT 2' BASE DITCH  
WCL B RIP RAP  
EST. 105 TONS  
EST. 180 SY GF  
SEE DETAIL 41

TIE TO EX. CURB  
-Y16- +87.86  
37.05' LT

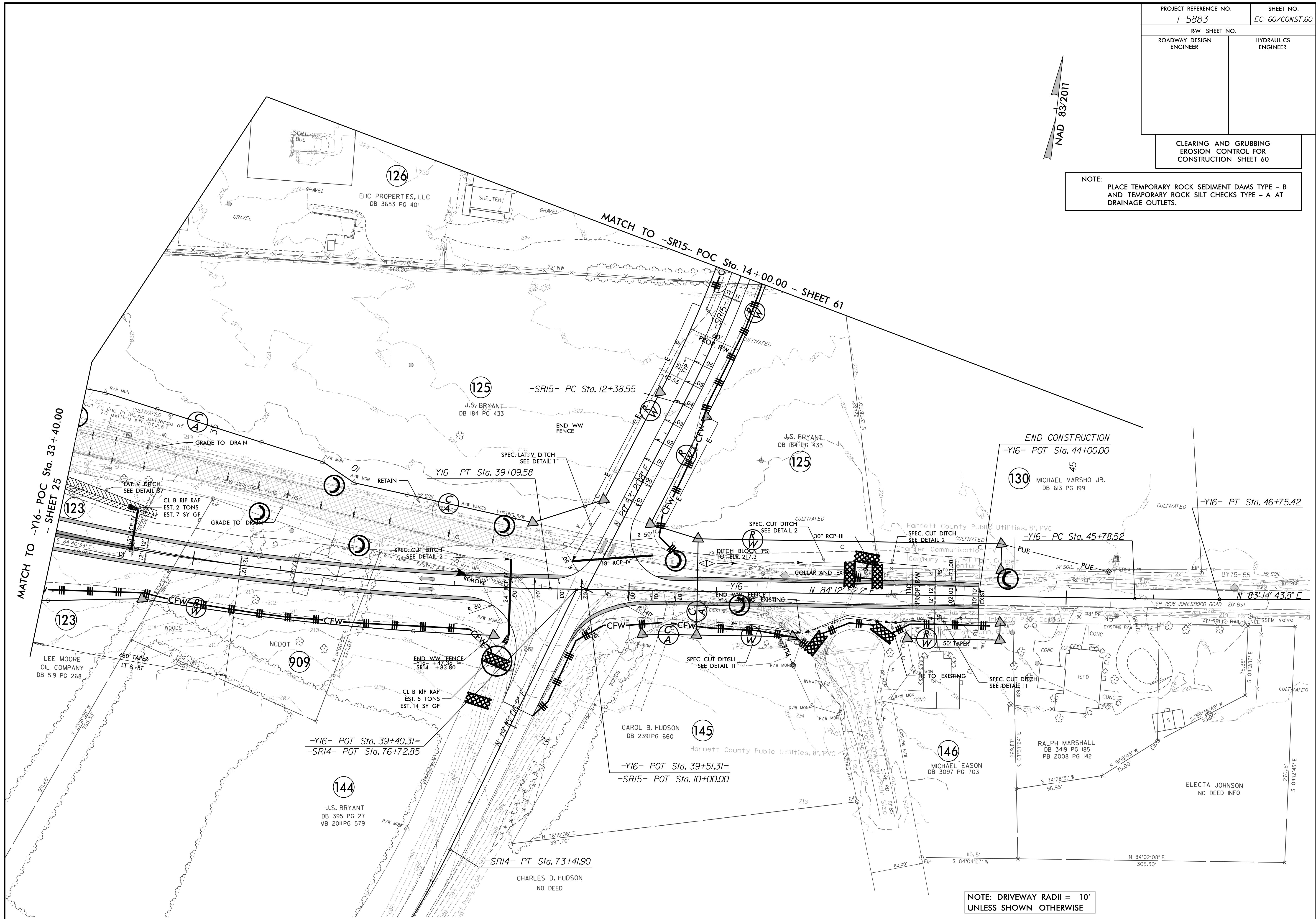
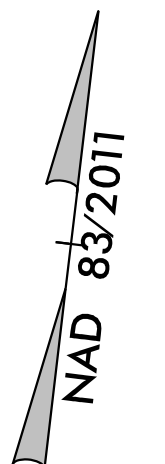
-Y16- PC Sta. 16+90.01

SPEC. CUT DITCH  
SEE DETAIL 55

PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-60/CONST.60
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 60

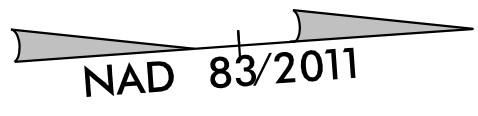
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.



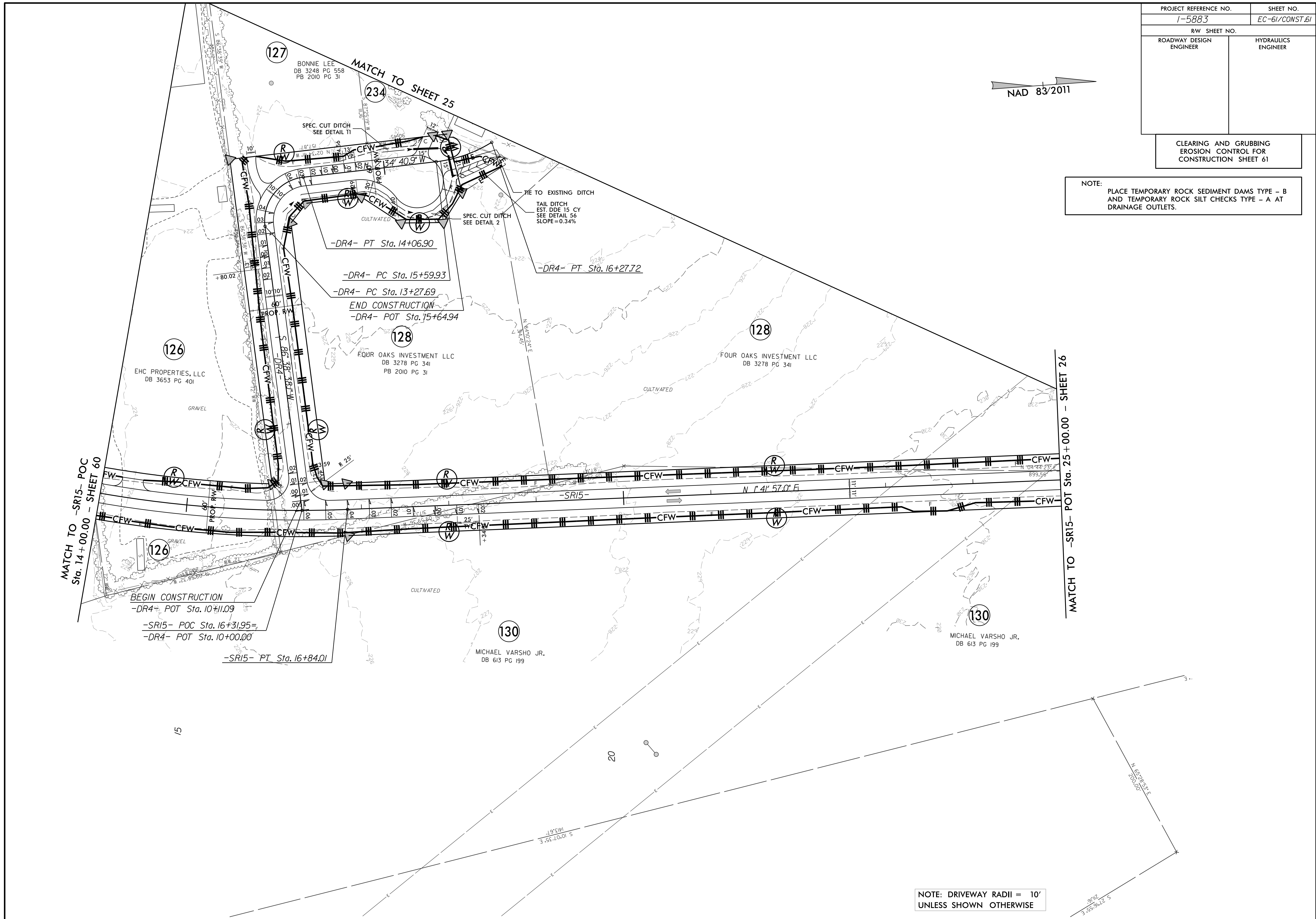
NOTE: DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE

PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-61/CONST.61
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 61



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



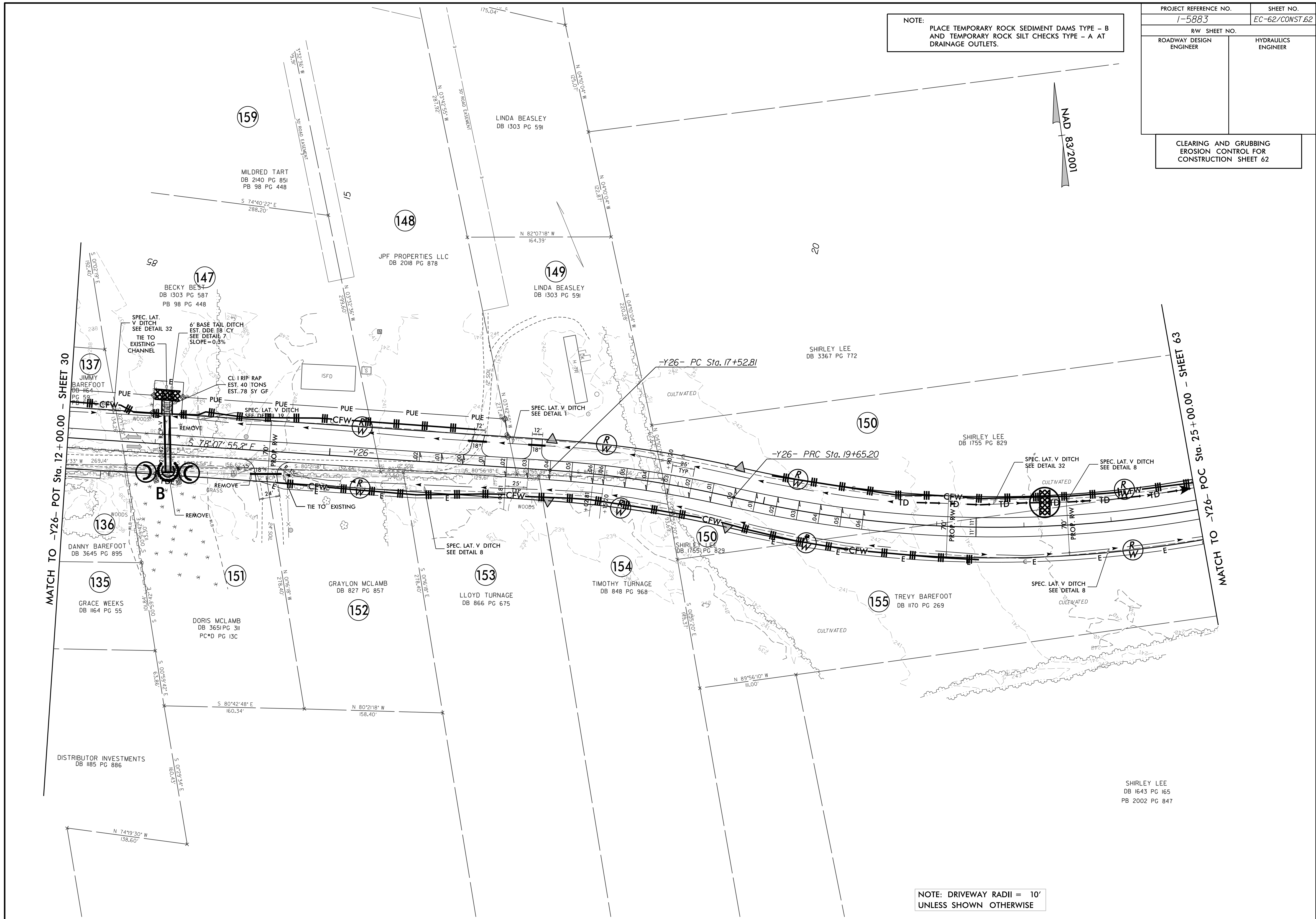
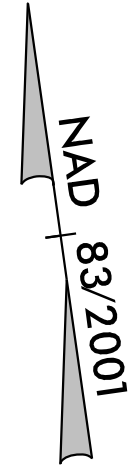
NOTE: DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE



PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-62/CONST.62
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 62

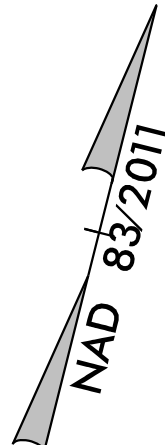
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.



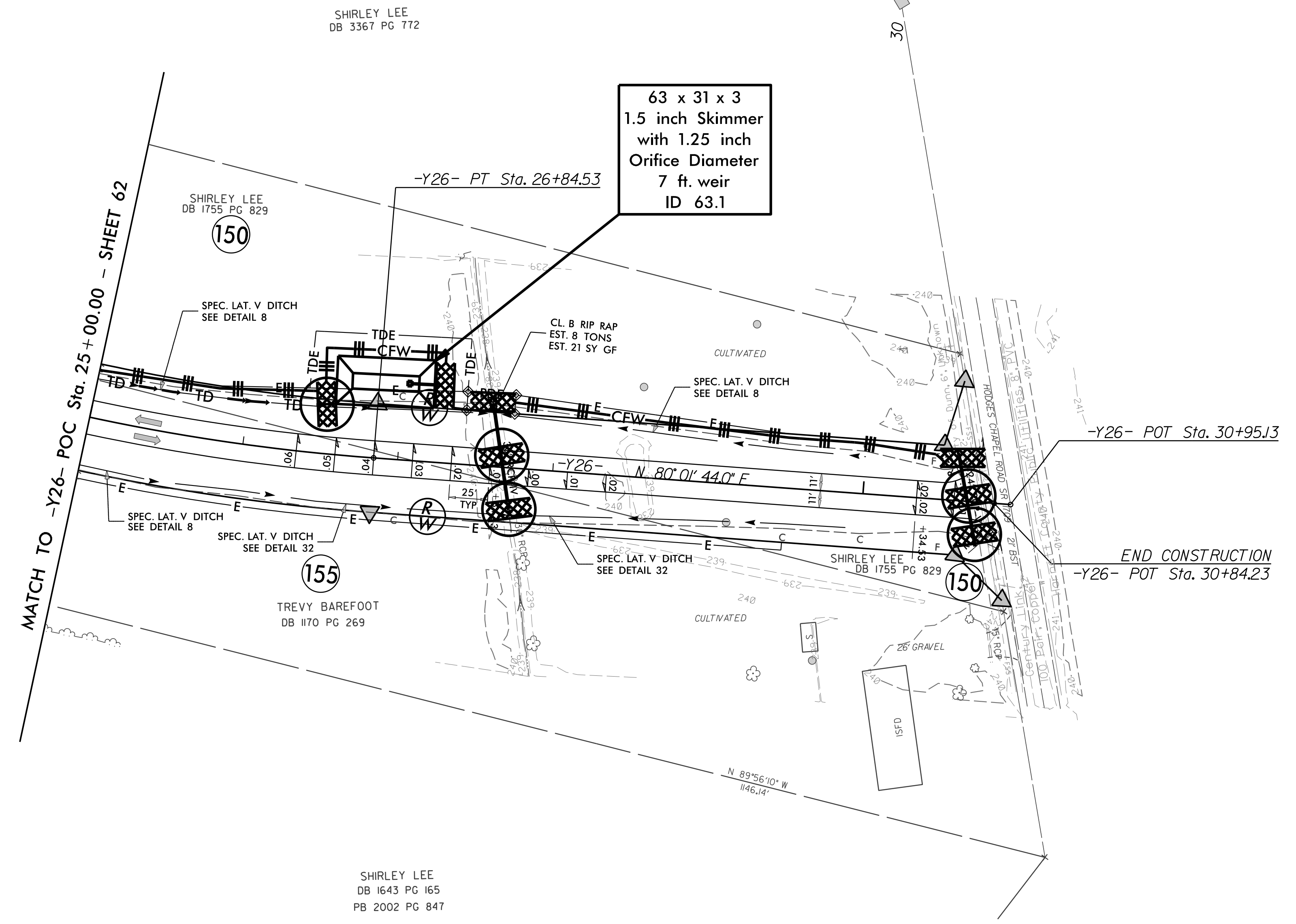
NOTE: DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE

PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-63/CONST.63
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 63



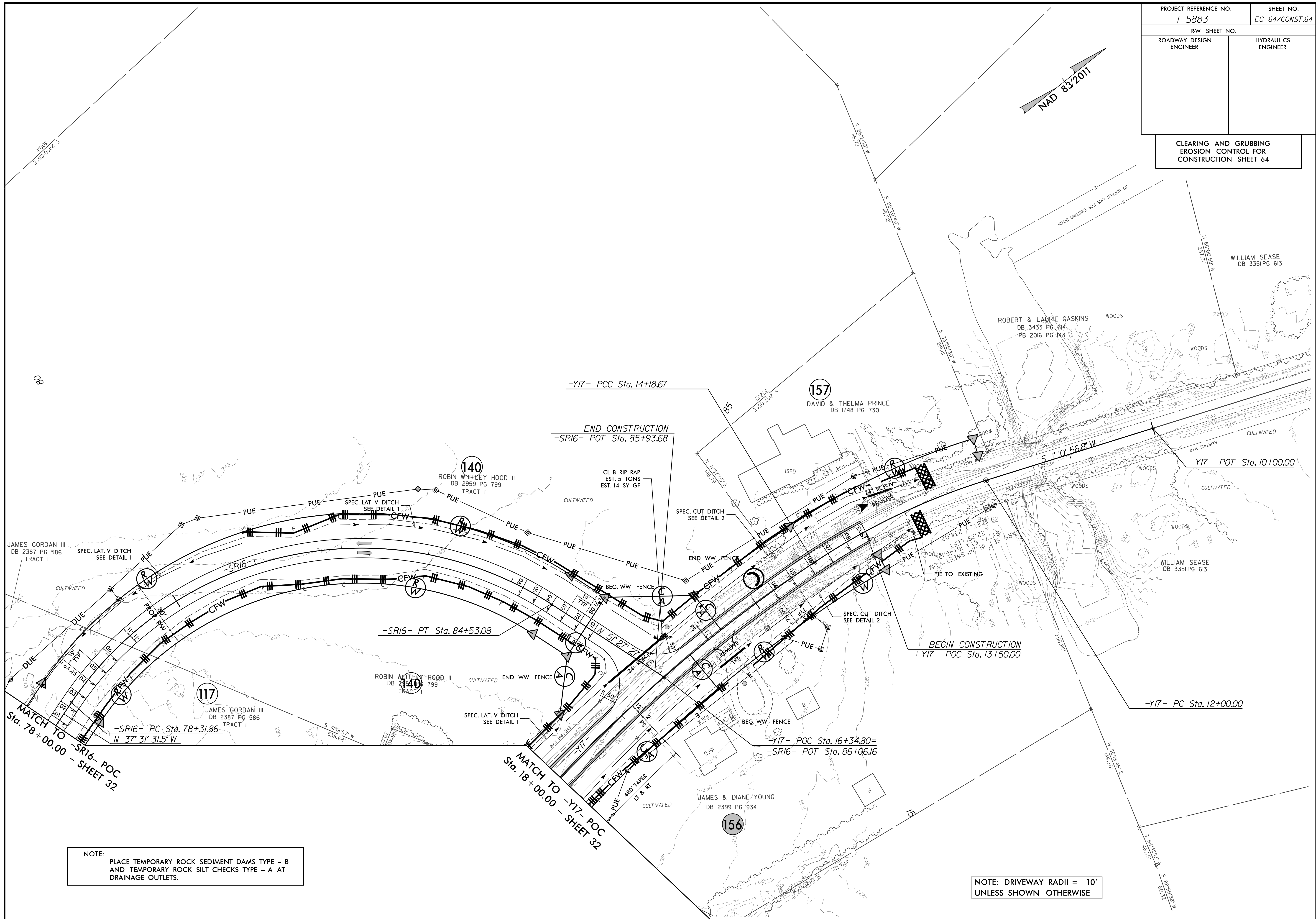
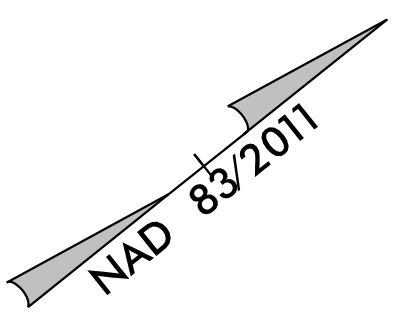
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.



NOTE: DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE

PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-64/CONST.64
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 64



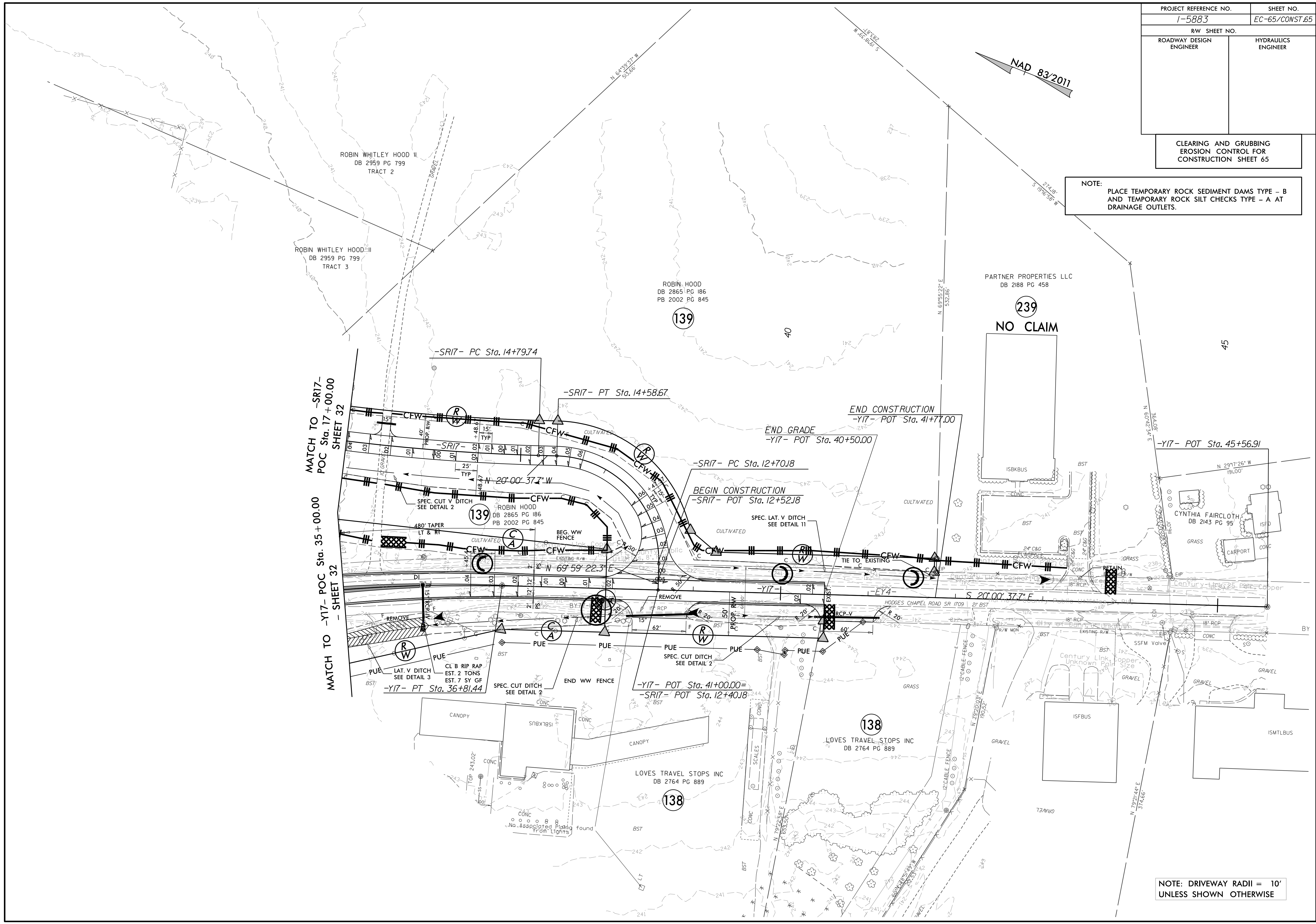
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

NOTE: DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE

PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-65/CONST.65
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 65

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

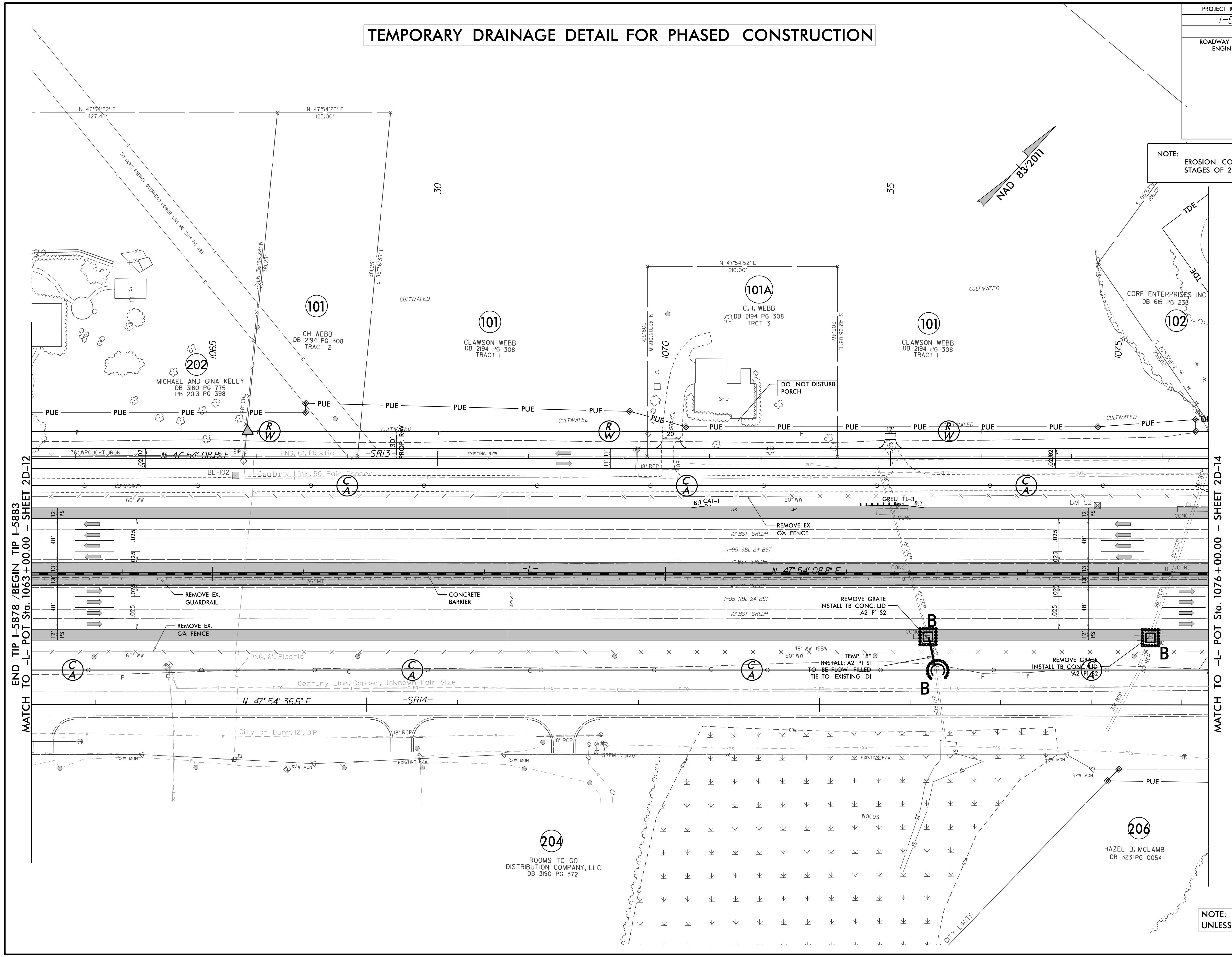


NOTE: DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE

# TEMPORARY DRAINAGE DETAIL FOR PHASED CONSTRUCTION

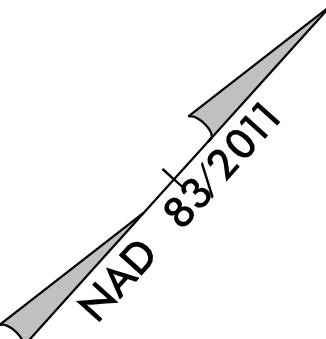
PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-69K/CONST 2D-13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**NOTE:**  
EROSION CONTROL MEASURES COVERING ALL STAGES OF 2D-13.



END TIP I-5878 / BEGIN TIP I-5883  
MATCH TO -L- POT Sta. 1063 + 00.00 - SHEET 2D-12

MATCH TO -L- POT Sta. 1076 + 00.00 - SHEET 2D-14

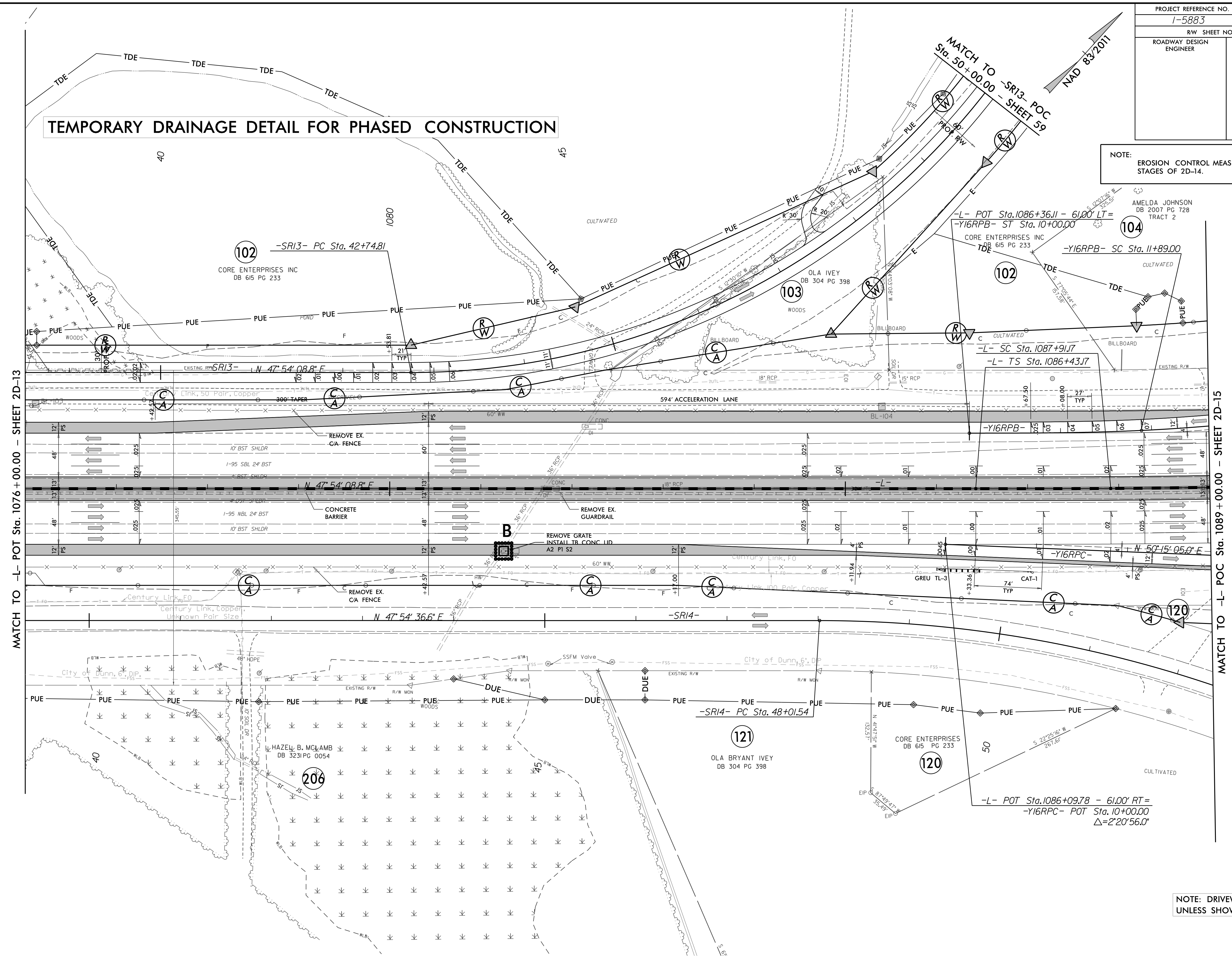


**NOTE:** DRIVEWAY RADII = 10' UNLESS SHOWN OTHERWISE

PROJECT REFERENCE NO. 1-5883	SHEET NO. EC-69L/CONST-2D-14
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# TEMPORARY DRAINAGE DETAIL FOR PHASED CONSTRUCTION

NOTE: EROSION CONTROL MEASURES COVERING ALL STAGES OF 2D-14.



AMELDA JOHNSON  
DB 2007 PG 728  
TRACT 2

CORE ENTERPRISES INC  
DB 615 PG 233

OLA IVEY  
DB 304 PG 398

OLA BRYANT IVEY  
DB 304 PG 398

CORE ENTERPRISES  
DB 615 PG 233

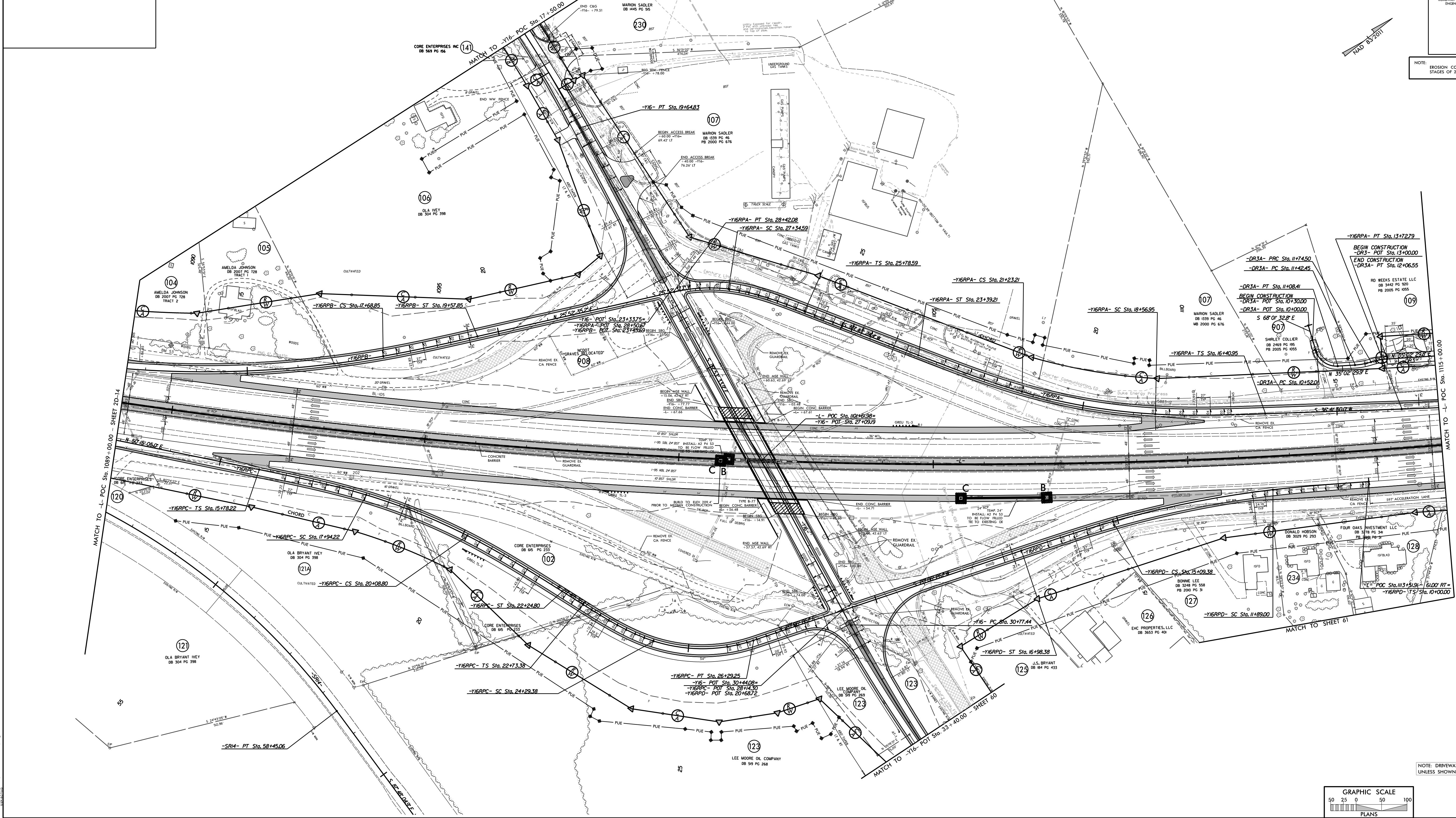
NOTE: DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE

REVISIONS

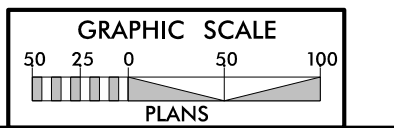
### TEMPORARY DRAINAGE DETAIL FOR PHASED CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
-5883	ES-494/007-20-15
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE: EROSION CONTROL MEASURES COVERING ALL STAGES OF 2D-15.



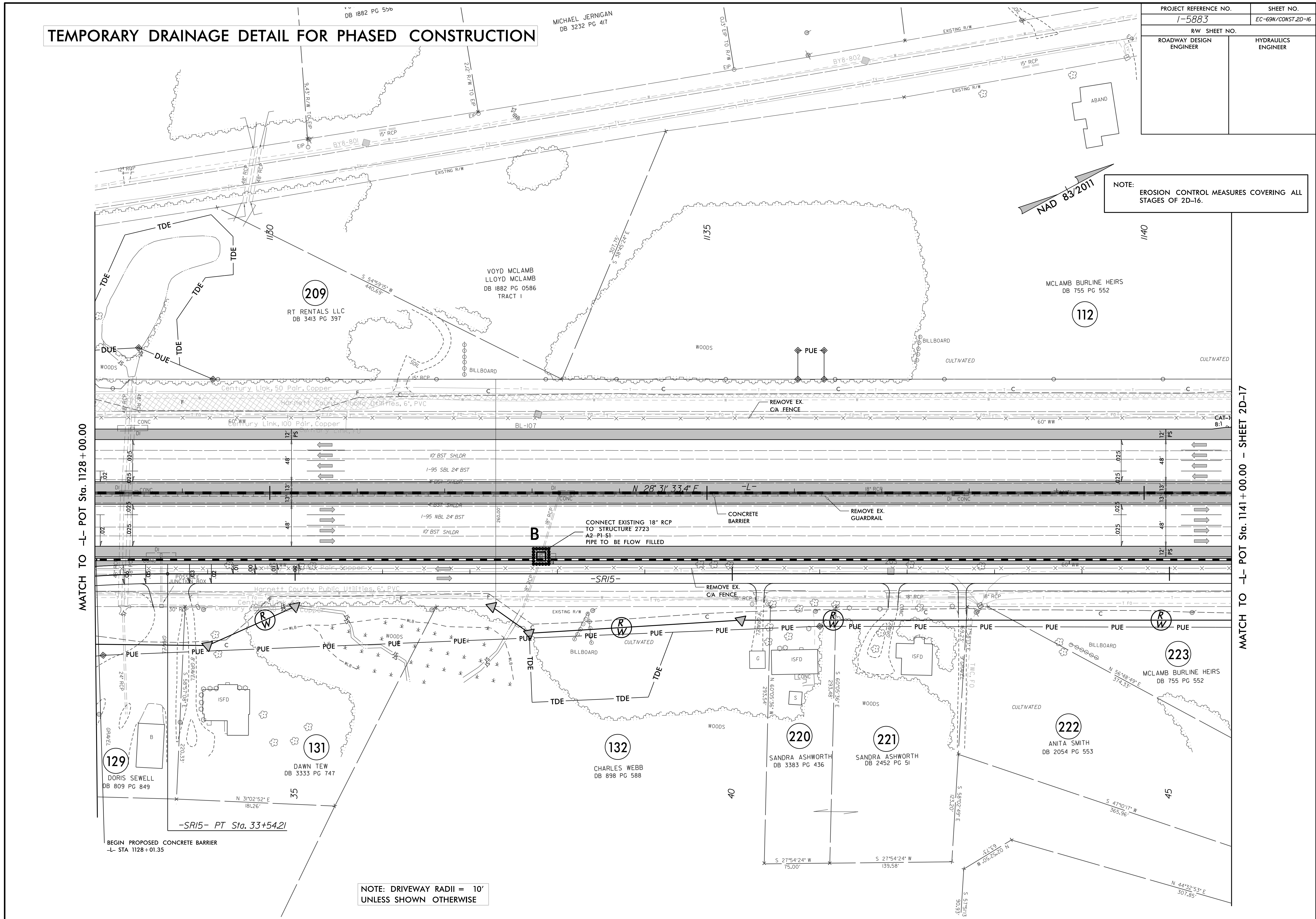
NOTE: DRIVEWAY RADIUS = 10' UNLESS SHOWN OTHERWISE



1:15/11/2015 10:00 AM

# TEMPORARY DRAINAGE DETAIL FOR PHASED CONSTRUCTION

PROJECT REFERENCE NO. 1-5883	SHEET NO. EC-69W/CONST 2D-16
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



NOTE: EROSION CONTROL MEASURES COVERING ALL STAGES OF 2D-16.

NOTE: DRIVEWAY RADII = 10' UNLESS SHOWN OTHERWISE

MATCH TO -L- POT Sta. 1128+00.00

MATCH TO -L- POT Sta. 1141+00.00 - SHEET 2D-17

BEGIN PROPOSED CONCRETE BARRIER  
-L- STA 1128+01.35

129  
DORIS SEWELL  
DB 809 PG 849

131  
DAWN TEW  
DB 3333 PG 747

132  
CHARLES WEBB  
DB 898 PG 588

220  
SANDRA ASHWORTH  
DB 3383 PG 436

221  
SANDRA ASHWORTH  
DB 2452 PG 51

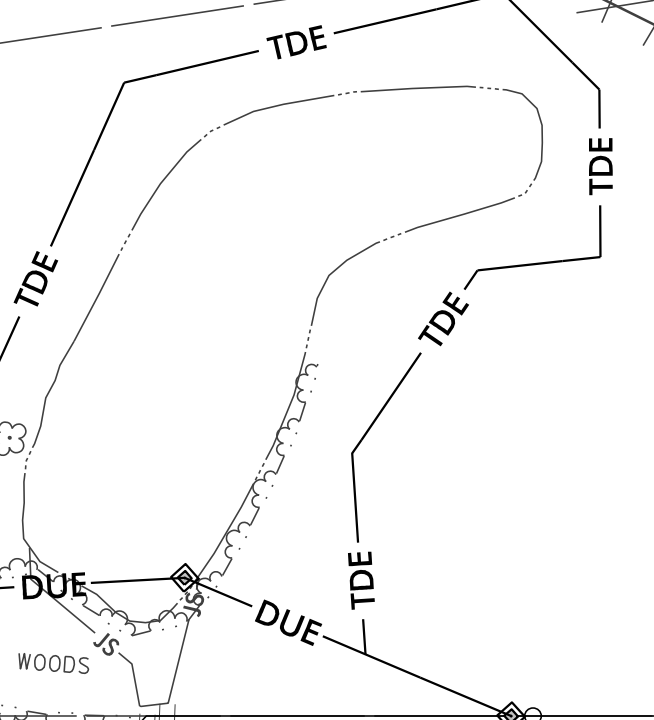
222  
ANITA SMITH  
DB 2054 PG 553

223  
MCLAMB BURLINE HEIRS  
DB 755 PG 552

209  
RT RENTALS LLC  
DB 3413 PG 397

VOYD MCLAMB  
LLOYD MCLAMB  
DB 1882 PG 0586  
TRACT I

112  
MCLAMB BURLINE HEIRS  
DB 755 PG 552



CONNECT EXISTING 18" RCP TO STRUCTURE 2723  
A2 P1 S1  
PIPE TO BE FLOW FILLED

REMOVE EX. GUARDRAIL  
CONCRETE BARRIER

-SRI5- PT Sta. 33+54.21

-SRI5-

N 56°48'49" E  
374.33'

S 27°54'24" W  
139.58'

S 57°51'3" E  
307.85'

N 44°32'53" E  
307.85'

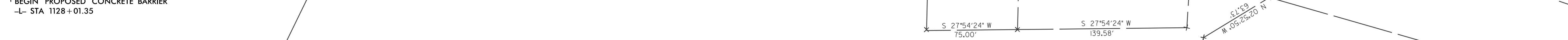
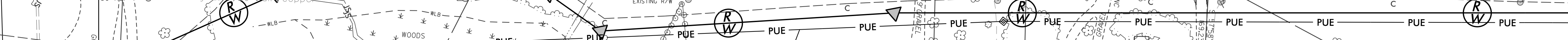
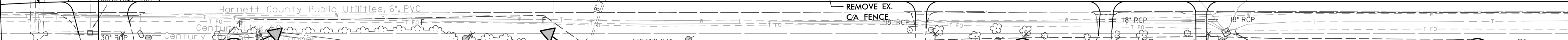
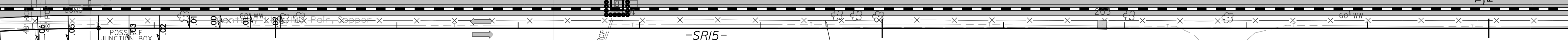
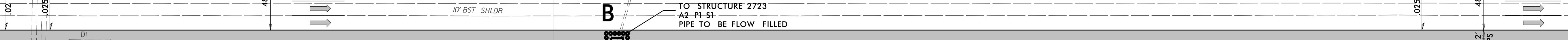
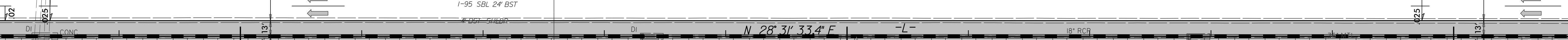
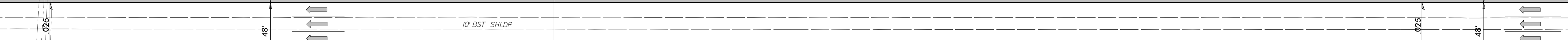
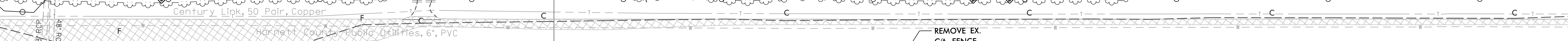
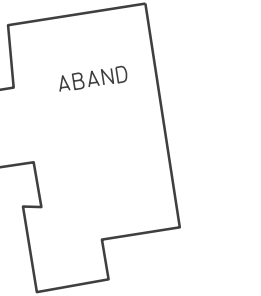
NAD 83/2011

MICHAEL JERNIGAN  
DB 3232 PG 417

DB 1882 PG 55b

BY8-802

BY8-801

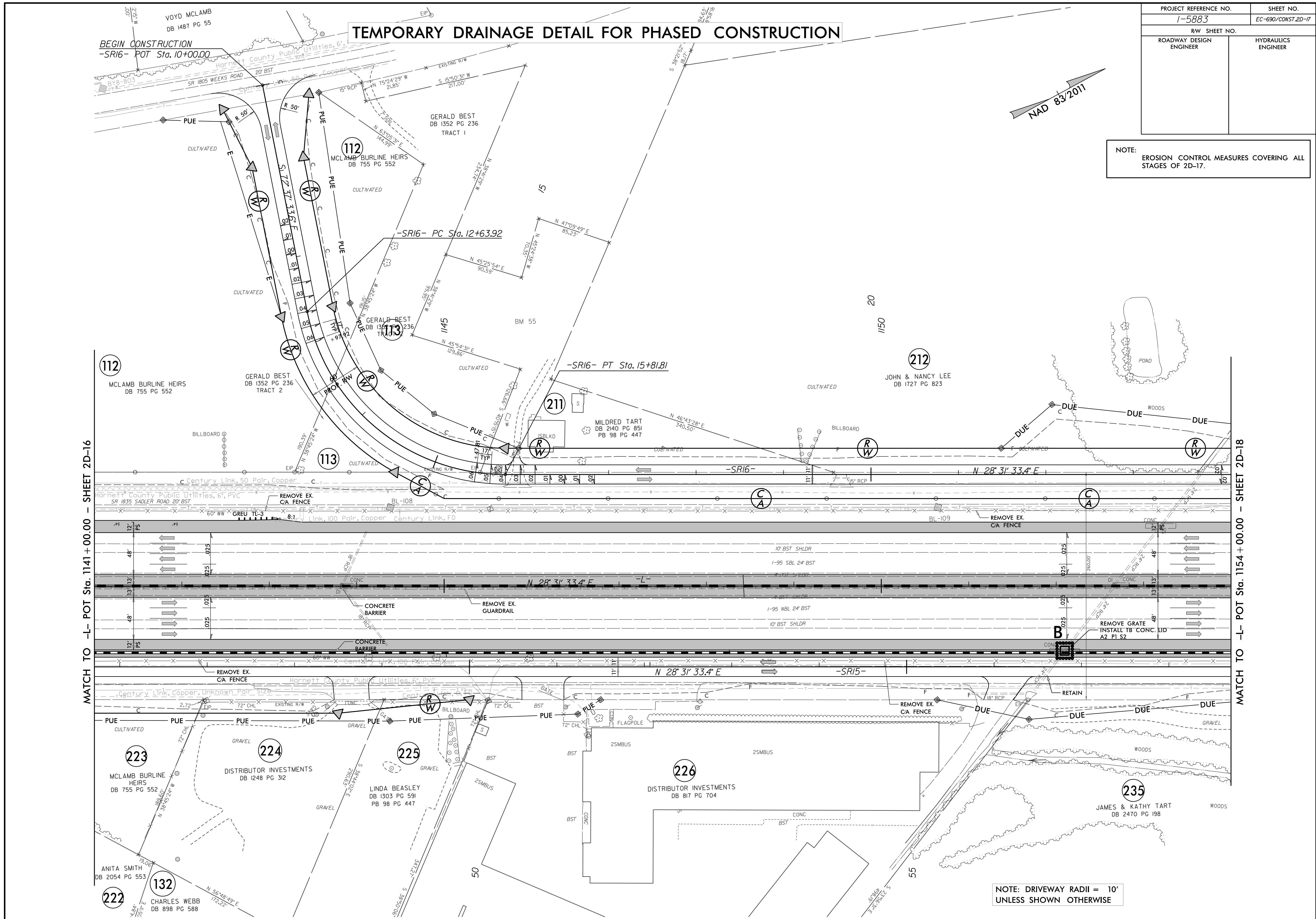




# TEMPORARY DRAINAGE DETAIL FOR PHASED CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-690/CONST 2D-17
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE: EROSION CONTROL MEASURES COVERING ALL STAGES OF 2D-17.



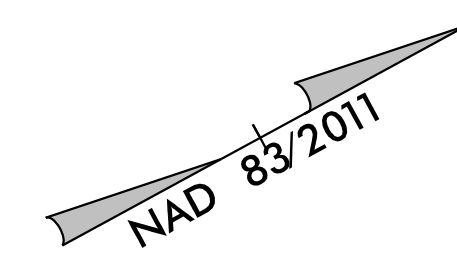
MATCH TO -L- POT Sta. 1141+00.00 - SHEET 2D-16

MATCH TO -L- POT Sta. 1154+00.00 - SHEET 2D-18

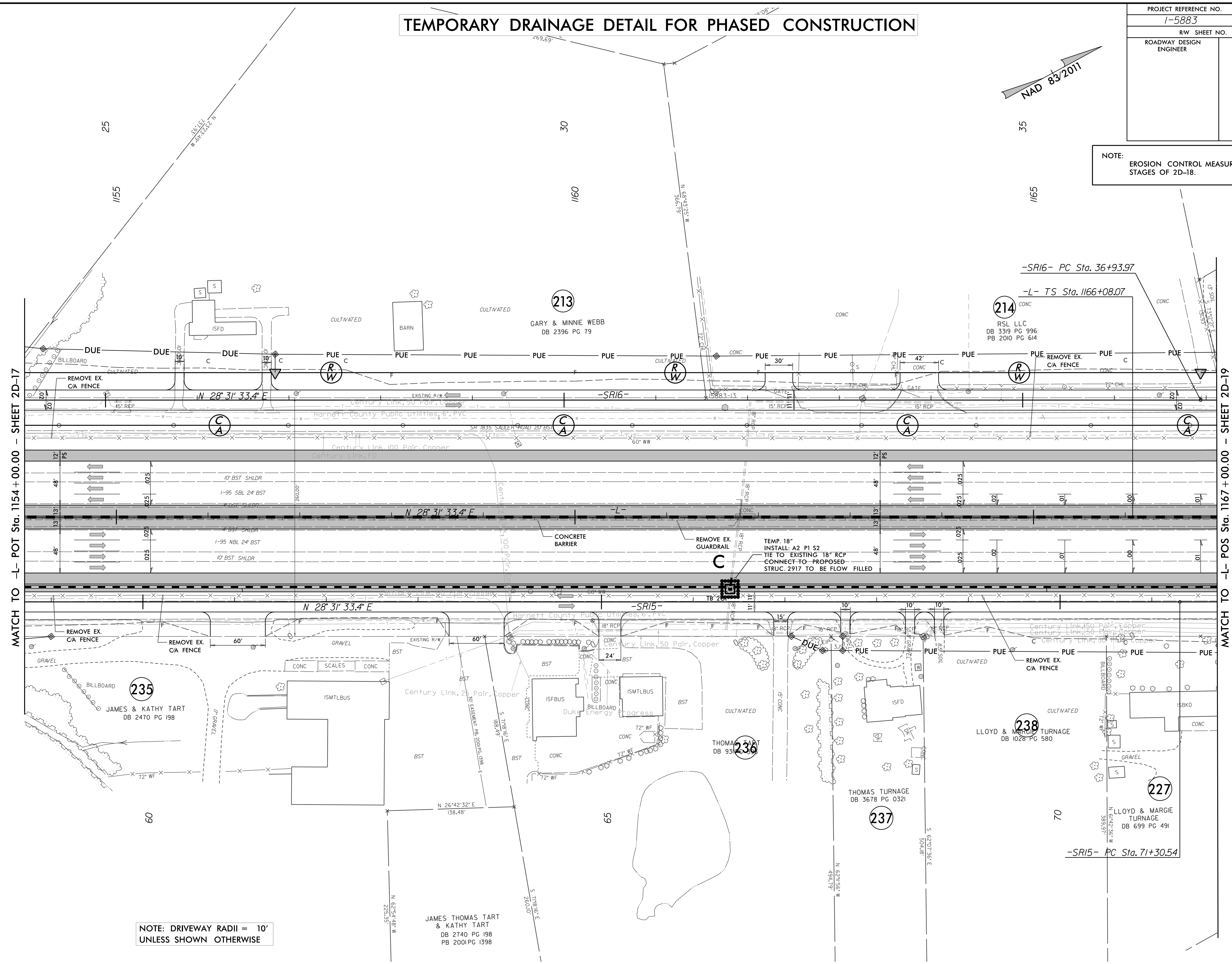
NOTE: DRIVEWAY RADII = 10' UNLESS SHOWN OTHERWISE

# TEMPORARY DRAINAGE DETAIL FOR PHASED CONSTRUCTION

PROJECT REFERENCE NO. <b>1-5883</b>	SHEET NO. <b>EC-69P/CONST 2D-18</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



**NOTE:**  
EROSION CONTROL MEASURES COVERING ALL STAGES OF 2D-18.

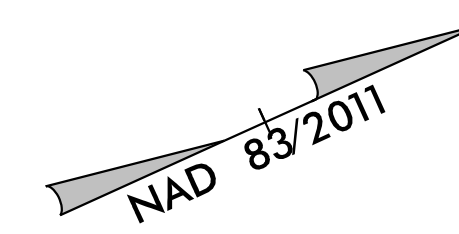


MATCH TO -L- POS Sta. 1167+00.00 - SHEET 2D-19

**NOTE:** DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE

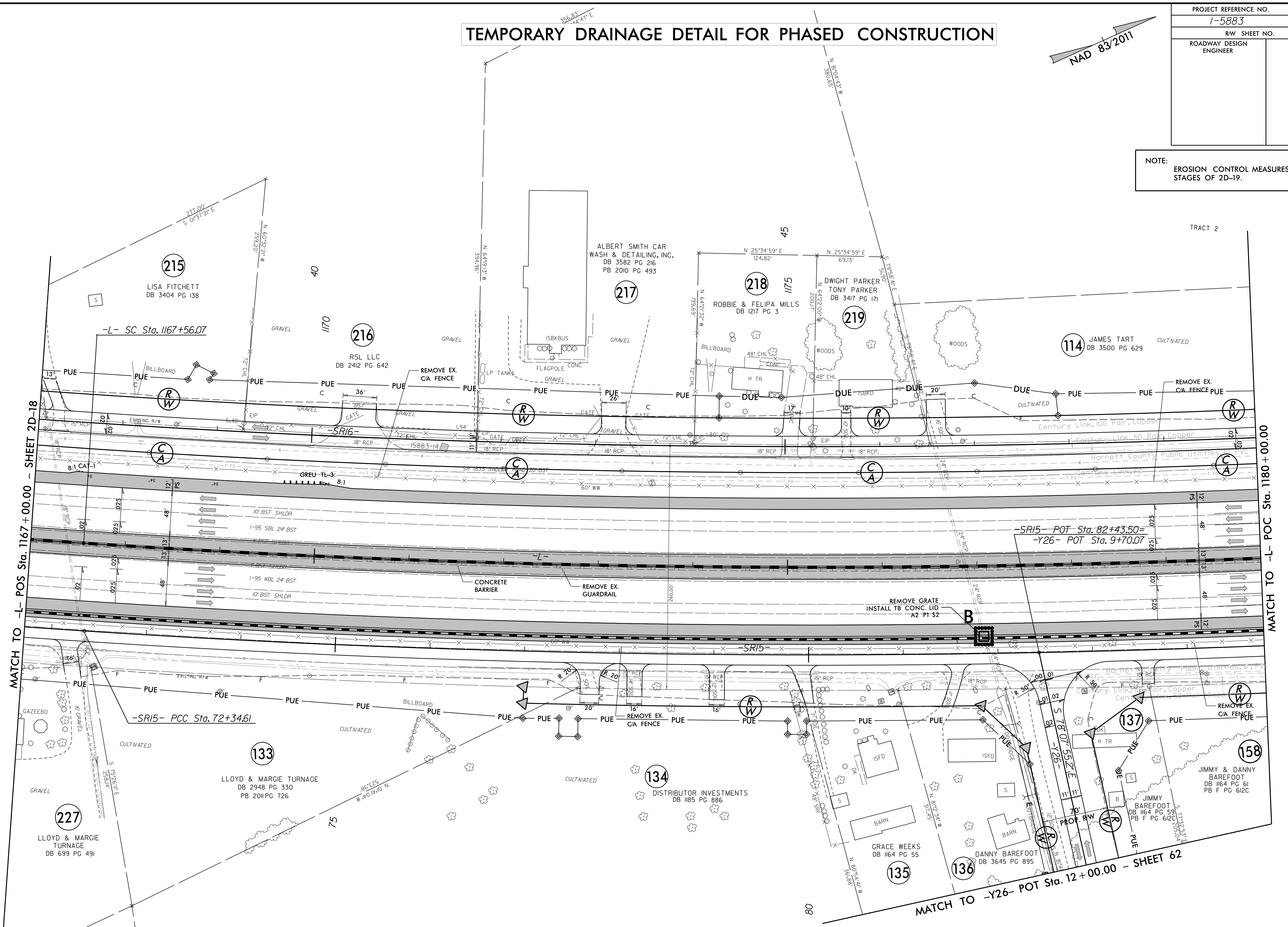
JAMES THOMAS TART & KATHY TART  
DB 2740 PG 198  
PB 2001 PG 1398

# TEMPORARY DRAINAGE DETAIL FOR PHASED CONSTRUCTION



PROJECT REFERENCE NO. <b>1-5883</b>	SHEET NO. <b>EC-690/CONST.2D-19</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**NOTE:**  
EROSION CONTROL MEASURES COVERING ALL STAGES OF 2D-19.

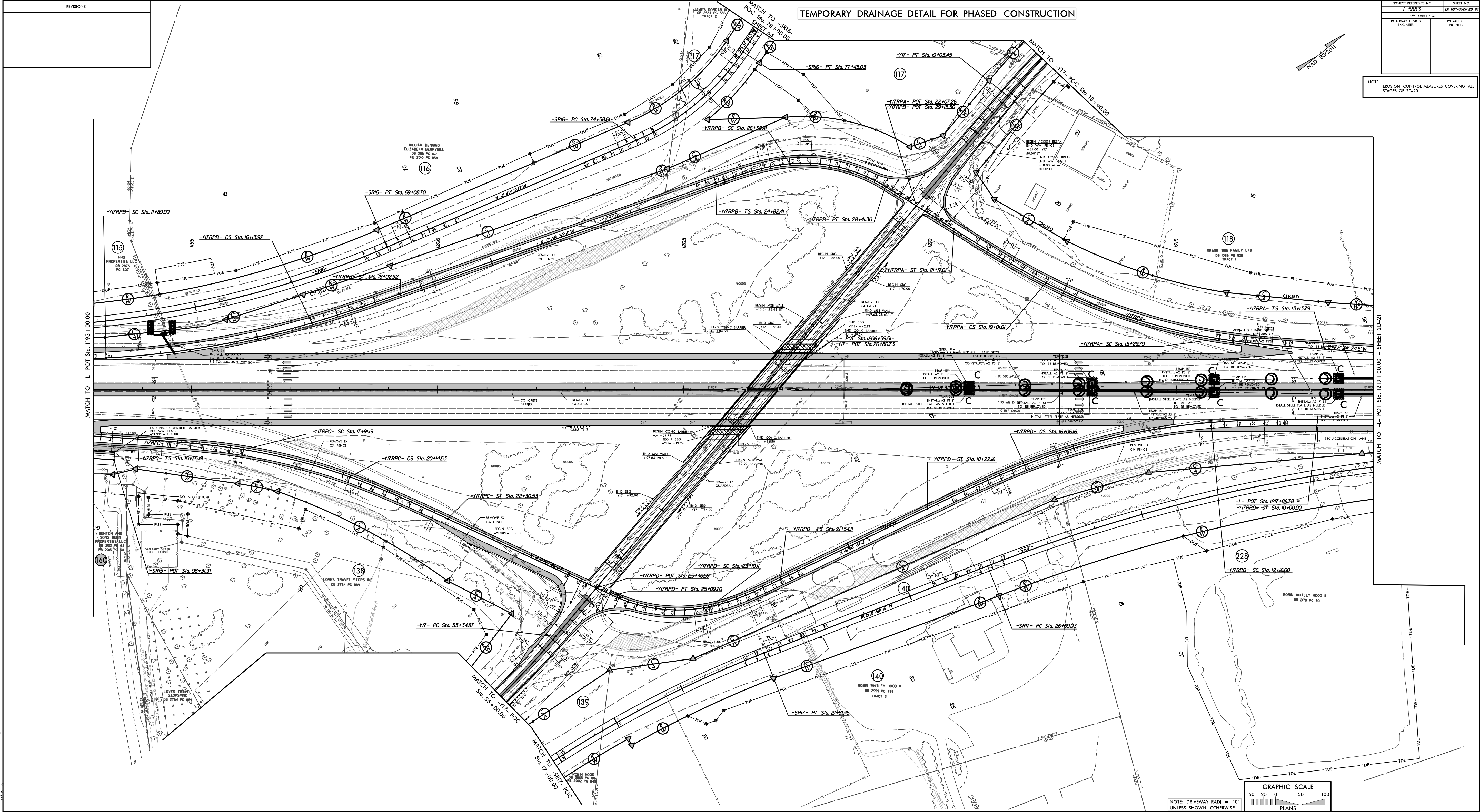


NO.	DESCRIPTION

TEMPORARY DRAINAGE DETAIL FOR PHASED CONSTRUCTION

PROJECT REFERENCE NO. 7-5883	SHEET NO. EC-499-0097-20
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

NOTE: EROSION CONTROL MEASURES COVERING ALL STAGES OF 2D-20.



1:1000 (20' HORIZ, 1" VERT) DATE: 02/20/20

NOTE: DRIVEWAY RADII = 10' UNLESS SHOWN OTHERWISE

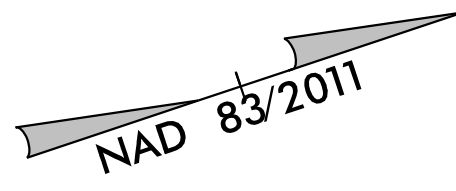
GRAPHIC SCALE  
50 25 0 50 100  
PLANS

MATCH TO -L- POT Sta. 1219+00.00 SHEET 2D-21

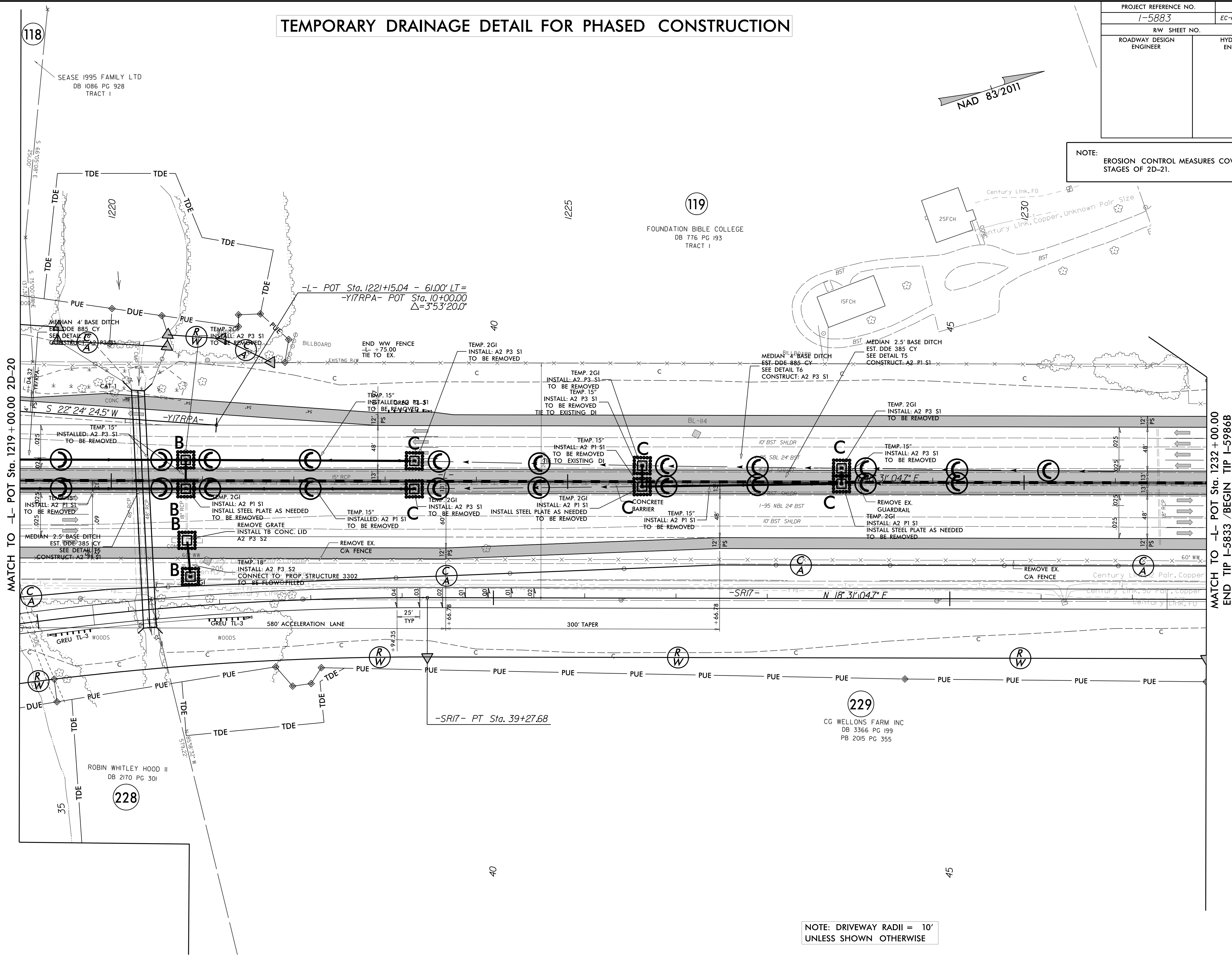
MATCH TO -L- POT Sta. 1193+00.00

# TEMPORARY DRAINAGE DETAIL FOR PHASED CONSTRUCTION

PROJECT REFERENCE NO. <b>1-5883</b>	SHEET NO. <b>EC-695/CONST 2D-21</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



**NOTE:**  
EROSION CONTROL MEASURES COVERING ALL STAGES OF 2D-21.

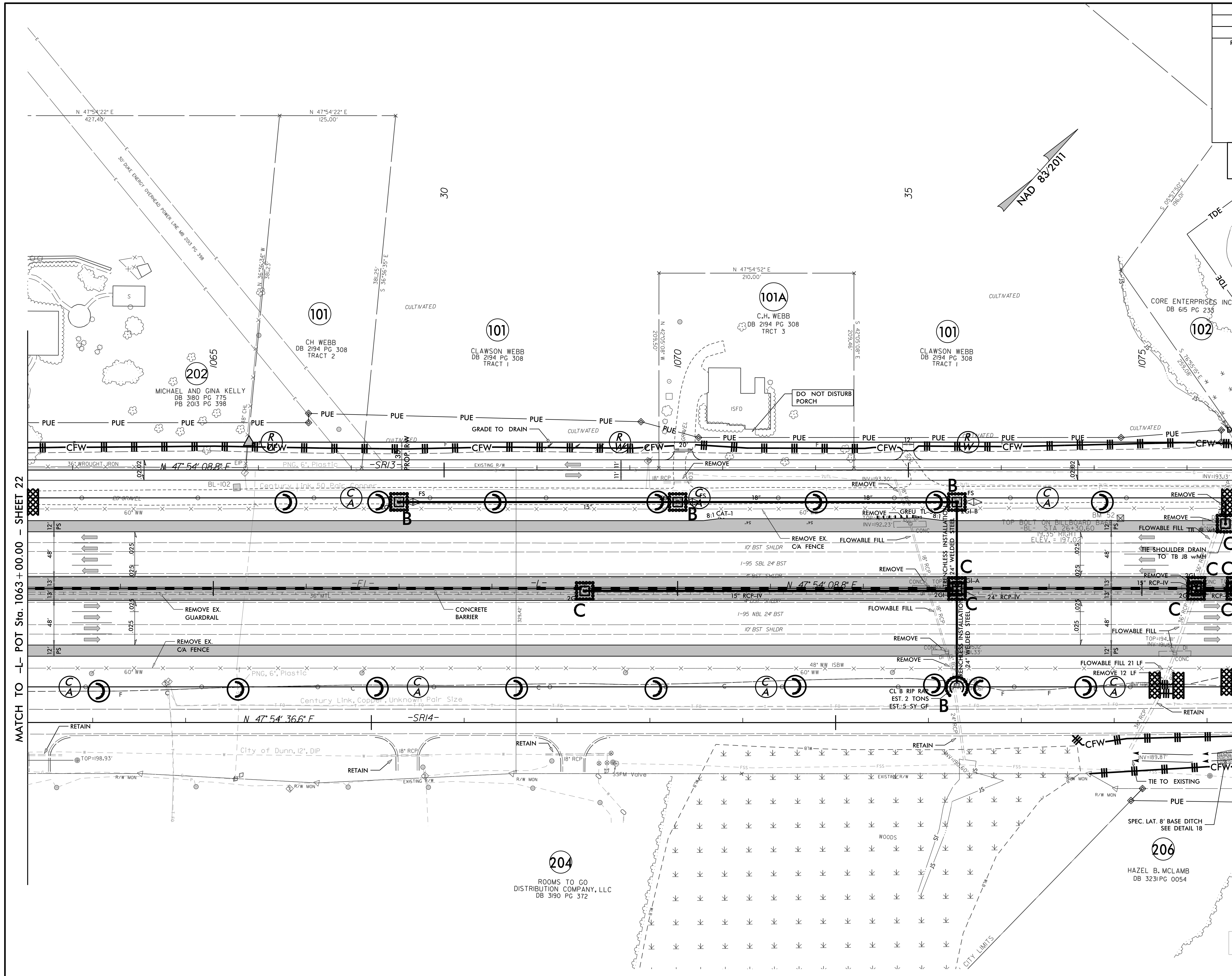


MATCH TO -L- POT Sta. 1219 + 00.00 2D-20

MATCH TO -L- POT Sta. 1232 + 00.00  
END TIP I-5833 /BEGIN TIP I-5986B

**NOTE:** DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE

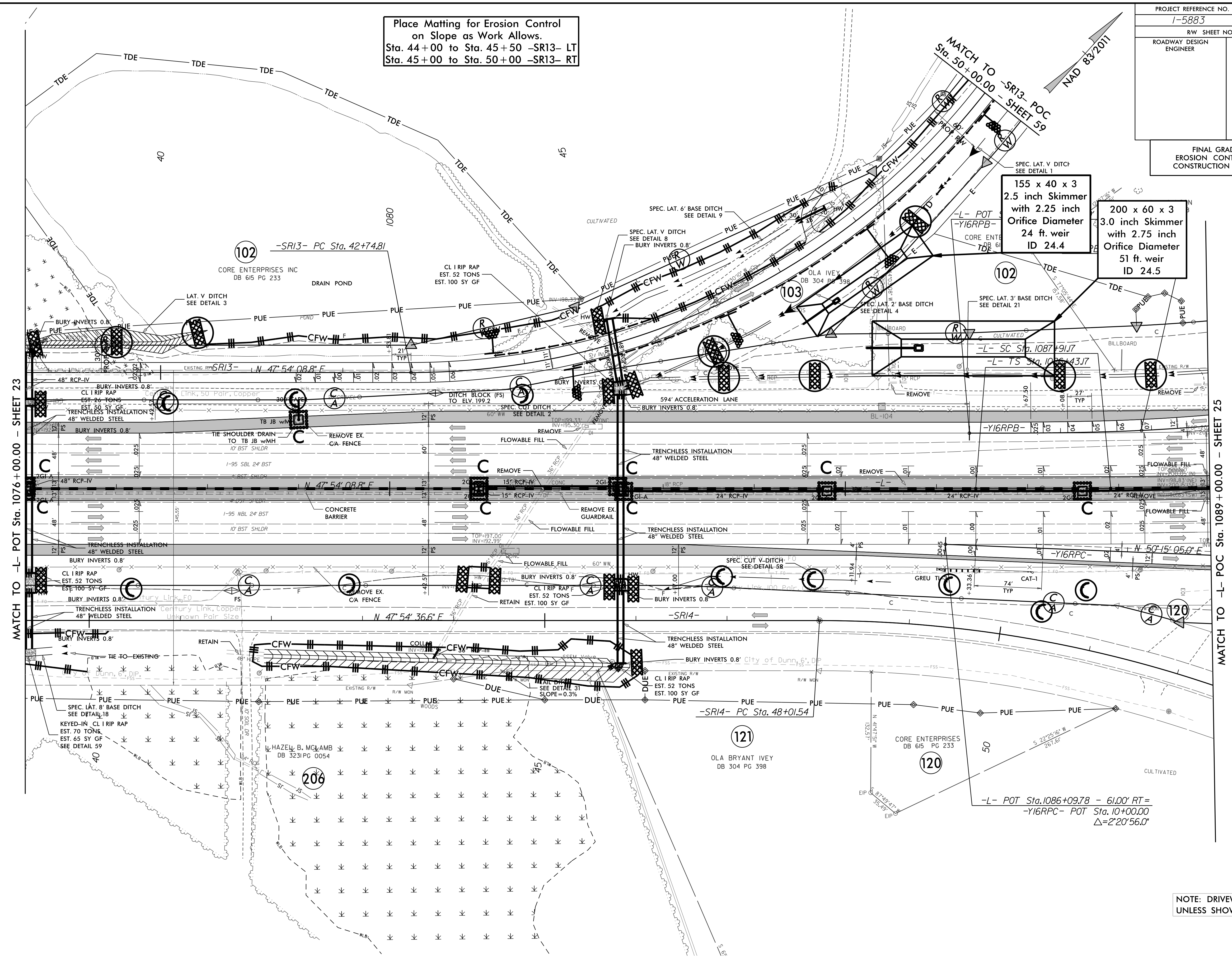
PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-89/CONST.23
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
FINAL GRADING EROSION CONTROL FOR CONSTRUCTION SHEET 23	



NOTE: DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE

Place Matting for Erosion Control  
on Slope as Work Allows.  
Sta. 44+00 to Sta. 45+50 -SR13- LT  
Sta. 45+00 to Sta. 50+00 -SR13- RT

PROJECT REFERENCE NO. 1-5883	SHEET NO. EC-90/CONST.24
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
FINAL GRADING EROSION CONTROL FOR CONSTRUCTION SHEET 24	



155 x 40 x 3  
2.5 inch Skimmer  
with 2.25 inch  
Orifice Diameter  
24 ft. weir  
ID 24.4

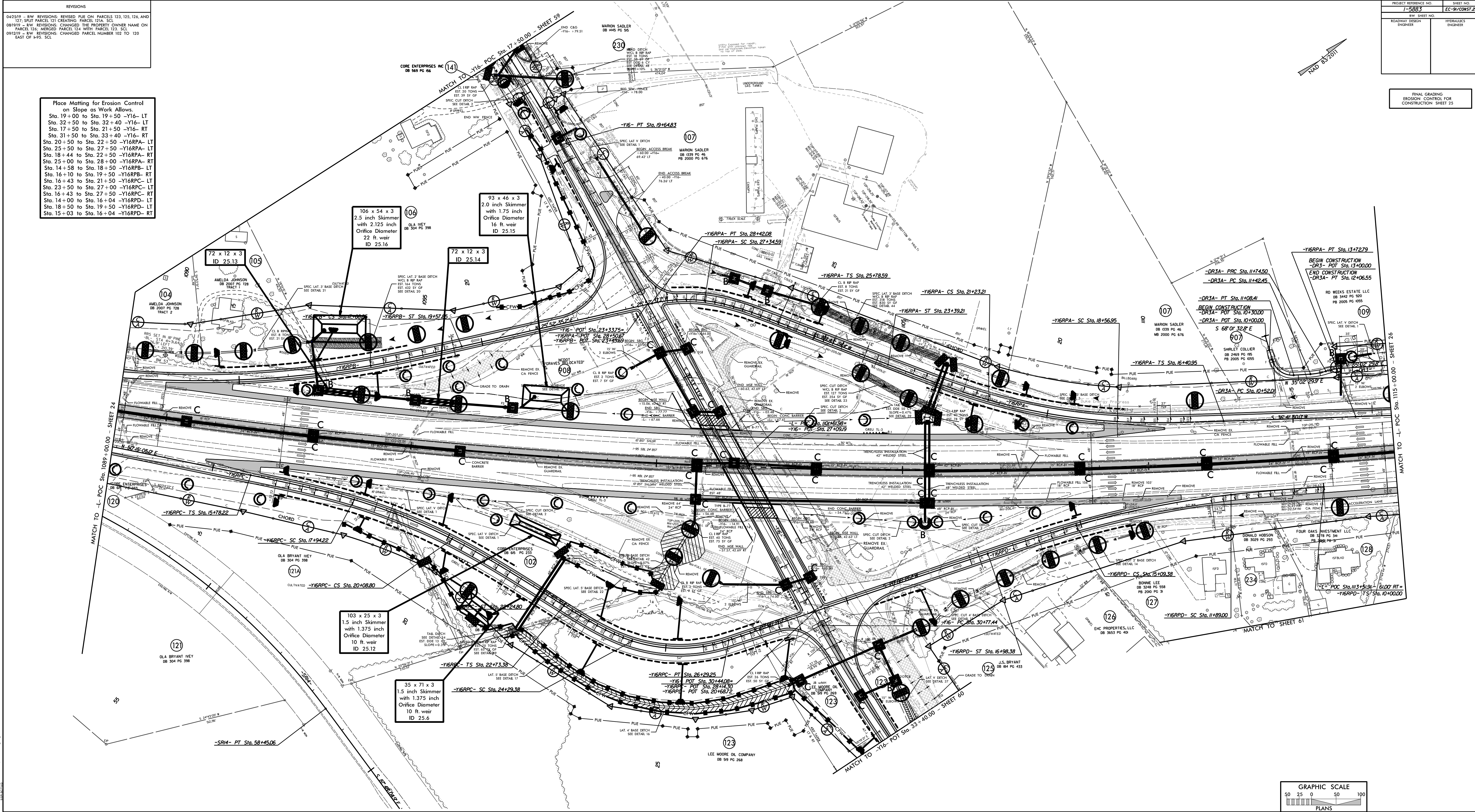
200 x 60 x 3  
3.0 inch Skimmer  
with 2.75 inch  
Orifice Diameter  
51 ft. weir  
ID 24.5

NOTE: DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE

REVISIONS	
042519	- RW REVISIONS: REVISED PUE ON PARCELS 123, 125, 126, AND 127. SPLIT PARCEL 127 CREATING PARCELS 127A, 127B, 127C.
081919	- RW REVISIONS: CHANGED THE PROPERTY OWNER NAME ON PARCEL 126; MERGED PARCEL 124 WITH PARCEL 123, 125, 126.
091219	- RW REVISIONS: CHANGED PARCEL NUMBER 125 TO 120 EAST OF I-95. SCL

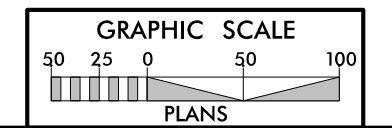
**Place Matting for Erosion Control on Slope as Work Allows.**

- Sta. 19+00 to Sta. 19+50 -Y16- LT
- Sta. 32+50 to Sta. 32+40 -Y16- LT
- Sta. 17+50 to Sta. 21+50 -Y16- RT
- Sta. 31+50 to Sta. 33+40 -Y16- RT
- Sta. 20+50 to Sta. 22+50 -Y16RPA- LT
- Sta. 25+50 to Sta. 27+50 -Y16RPA- LT
- Sta. 18+44 to Sta. 22+50 -Y16RPA- RT
- Sta. 25+00 to Sta. 28+00 -Y16RPA- RT
- Sta. 14+58 to Sta. 18+50 -Y16RPA- LT
- Sta. 16+10 to Sta. 19+50 -Y16RPA- RT
- Sta. 16+43 to Sta. 21+50 -Y16RPA- LT
- Sta. 23+50 to Sta. 27+00 -Y16RPA- LT
- Sta. 16+43 to Sta. 27+50 -Y16RPA- RT
- Sta. 14+00 to Sta. 16+04 -Y16RPA- LT
- Sta. 18+50 to Sta. 19+50 -Y16RPA- LT
- Sta. 15+03 to Sta. 16+04 -Y16RPA- RT



PROJECT REFERENCE NO.	7-5883
R/W SHEET NO.	EC-9/CONST 25
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

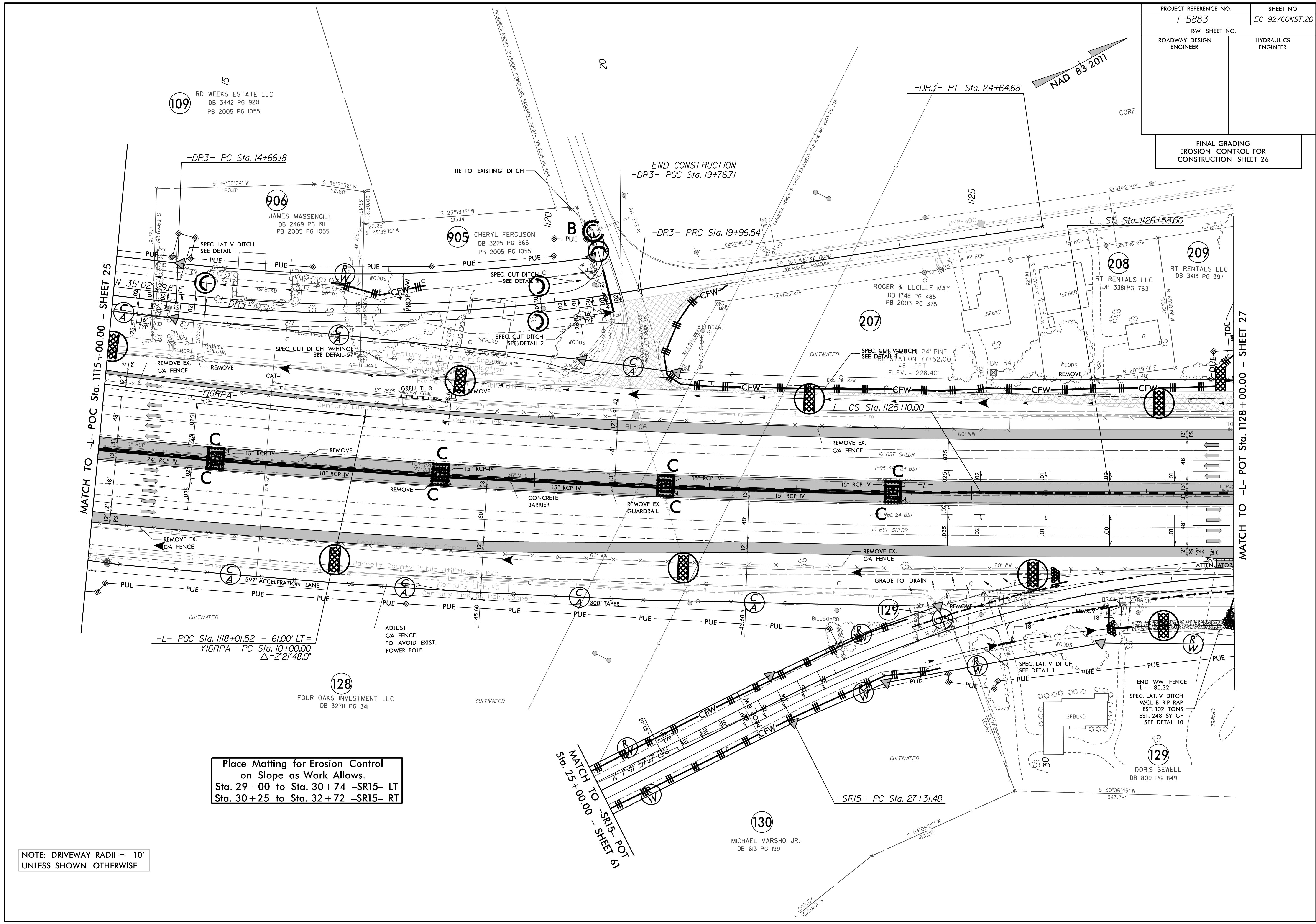
FINAL GRADING EROSION CONTROL FOR CONSTRUCTION SHEET 25



1:24,000 (SHEET 25) EC-9/CONST 25



PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-92/CONST.26
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
FINAL GRADING EROSION CONTROL FOR CONSTRUCTION SHEET 26	



MATCH TO -L- POC Sta. 1115+00.00 - SHEET 25

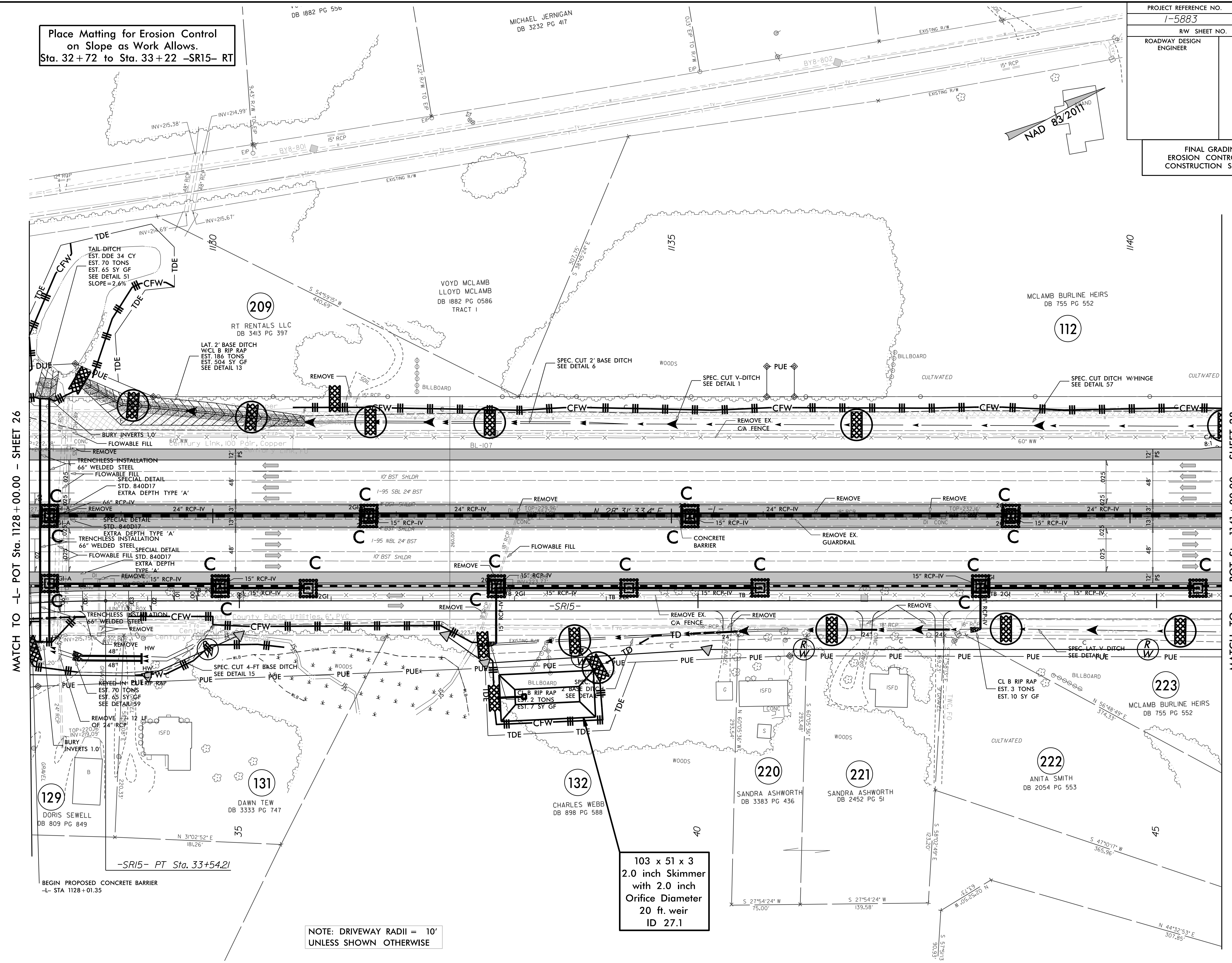
MATCH TO -L- POT Sta. 1128+00.00 - SHEET 27

Place Matting for Erosion Control  
on Slope as Work Allows.  
Sta. 29+00 to Sta. 30+74 -SR15- LT  
Sta. 30+25 to Sta. 32+72 -SR15- RT

NOTE: DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE

Place Matting for Erosion Control  
on Slope as Work Allows.  
Sta. 32+72 to Sta. 33+22 -SR15- RT

PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-93/CONST.27
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
FINAL GRADING EROSION CONTROL FOR CONSTRUCTION SHEET 27	



MATCH TO -L- POT Sta. 1128+00.00 - SHEET 26

MATCH TO -L- POT Sta. 1141+00.00 - SHEET 28

BEGIN PROPOSED CONCRETE BARRIER  
-L- STA 1128+01.35

NOTE: DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE

103 x 51 x 3  
2.0 inch Skimmer  
with 2.0 inch  
Orifice Diameter  
20 ft. weir  
ID 27.1

129  
DORIS SEWELL  
DB 809 PG 849

131  
DAWN TEW  
DB 3333 PG 747

132  
CHARLES WEBB  
DB 898 PG 588

220  
SANDRA ASHWORTH  
DB 3383 PG 436

221  
SANDRA ASHWORTH  
DB 2452 PG 51

222  
ANITA SMITH  
DB 2054 PG 553

223  
MCLAMB BURLINE HEIRS  
DB 755 PG 552

209  
RT RENTALS LLC  
DB 3413 PG 397

VOYD MCLAMB  
LLOYD MCLAMB  
DB 1882 PG 0586  
TRACT 1

112  
MCLAMB BURLINE HEIRS  
DB 755 PG 552

TDE  
CFW  
TDE  
CFW  
TDE  
CFW

TAIL DITCH  
EST. DDE 34 CY  
EST. 70 TONS  
EST. 65 SY GF  
SEE DETAIL 51  
SLOPE=2.6%

LAT. 2' BASE DITCH  
WCL B RIP RAP  
EST. 186 TONS  
EST. 404 SY GF  
SEE DETAIL 13

SPEC. CUT 2' BASE DITCH  
SEE DETAIL 6

SPEC. CUT V-DITCH  
SEE DETAIL 1

SPEC. CUT DITCH W/HINGE  
SEE DETAIL 57

TRENCHLESS INSTALLATION  
66" WELDED STEEL  
FLOWABLE FILL  
SPECIAL DETAIL  
STD. 840D17  
EXTRA DEPTH TYPE 'A'

TRENCHLESS INSTALLATION  
66" WELDED STEEL  
FLOWABLE FILL  
SPECIAL DETAIL  
STD. 840D17  
EXTRA DEPTH TYPE 'A'

TRENCHLESS INSTALLATION  
66" WELDED STEEL  
FLOWABLE FILL  
SPECIAL DETAIL  
STD. 840D17  
EXTRA DEPTH TYPE 'A'

REMOVE HW  
KEYED IN PUE RIP RAP  
EST. 70 TONS  
EST. 65 SY GF  
SEE DETAIL 59

REMOVE OF 24" RCP  
BURY INVERTS 1.0'

REMOVE  
FLOWABLE FILL

REMOVE  
CONCRETE BARRIER

REMOVE  
REMOVE EX. GUARDRAIL

REMOVE EX. C/A FENCE

CL B RIP RAP  
EST. 3 TONS  
EST. 10 SY GF

-SR15- PT Sta. 33+54.21

DB 1882 PG 55b

MICHAEL JERNIGAN  
DB 3232 PG 417

NAD 83 2011

121 RCP

INV=215.38'

INV=214.99'

INV=214.69'

INV=215.67'

INV=214.69'

INV=214.69'

INV=214.69'

INV=214.69'

INV=214.69'

INV=214.69'

INV=214.69'

INV=214.69'

INV=214.69'

INV=214.69'

INV=214.69'

INV=214.69'

INV=214.69'

INV=214.69'

INV=214.69'

INV=214.69'

INV=214.69'

INV=214.69'

INV=214.69'

INV=214.69'

INV=214.69'

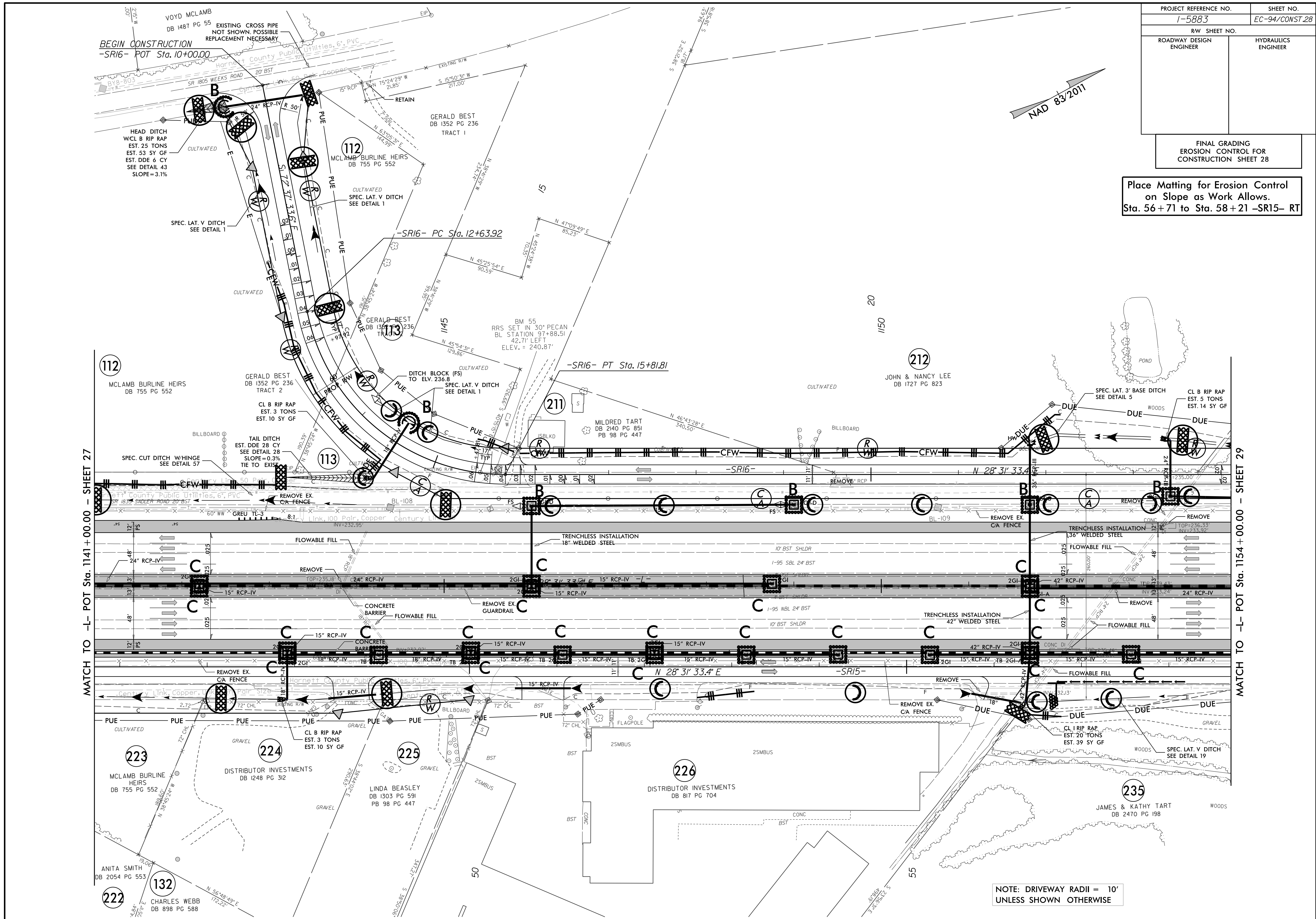
INV=214.69'

INV=214.69'

PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-94/CONST.28
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 28

Place Matting for Erosion Control  
on Slope as Work Allows.  
Sta. 56+71 to Sta. 58+21 -SR15- RT



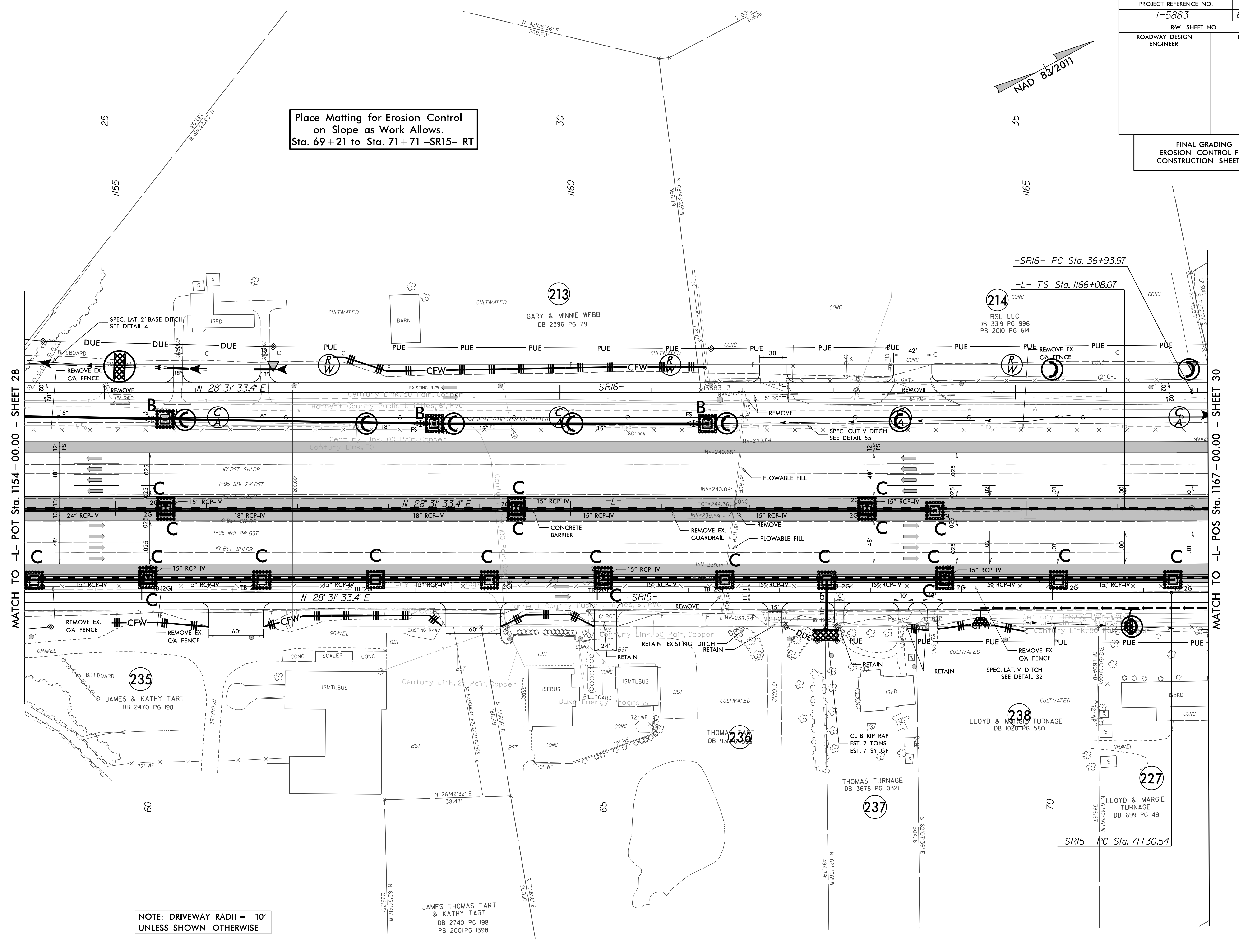
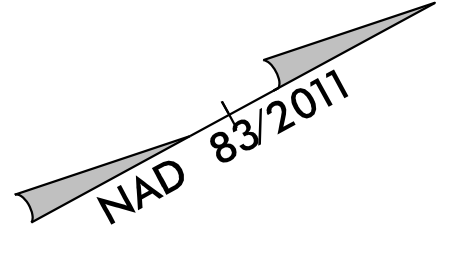
MATCH TO -L- POT Sta. 1141+00.00 - SHEET 27

MATCH TO -L- POT Sta. 1154+00.00 - SHEET 29

NOTE: DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE

PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-95/CONST.29
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
FINAL GRADING EROSION CONTROL FOR CONSTRUCTION SHEET 29	

Place Matting for Erosion Control  
on Slope as Work Allows.  
Sta. 69+21 to Sta. 71+71 -SR15- RT



MATCH TO -L- POT Sta. 1154+00.00 - SHEET 28

MATCH TO -L- POS Sta. 1167+00.00 - SHEET 30

NOTE: DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE

JAMES THOMAS TART  
& KATHY TART  
DB 2740 PG 198  
PB 2001 PG 1398

235  
JAMES & KATHY TART  
DB 2470 PG 198

236  
THOMAS TART  
DB 931 PG 198

237  
THOMAS TURNAGE  
DB 3678 PG 0321

238  
LLOYD & MARGIE TURNAGE  
DB 1028 PG 580

227  
LLOYD & MARGIE TURNAGE  
DB 699 PG 491

213  
GARY & MINNIE WEBB  
DB 2396 PG 79

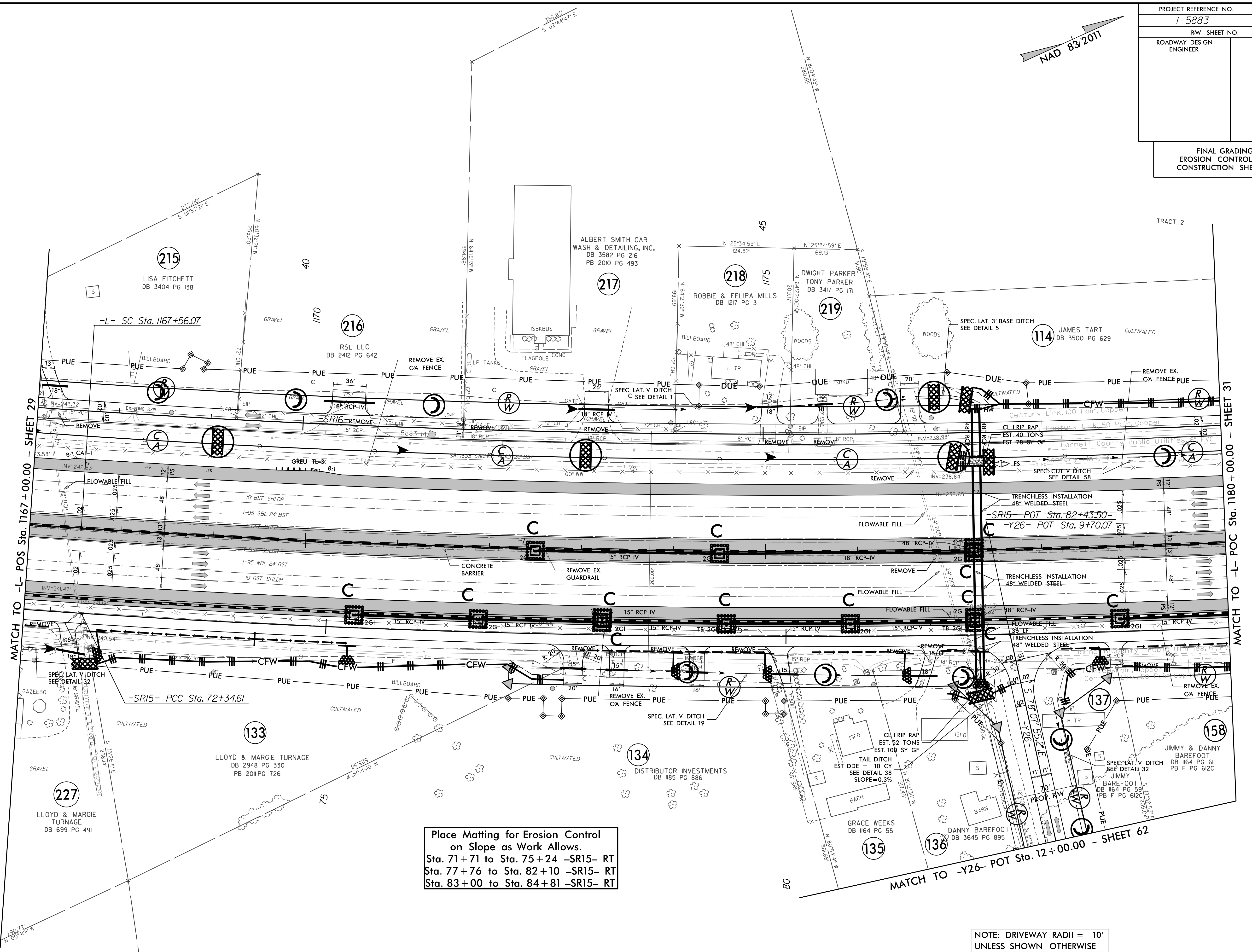
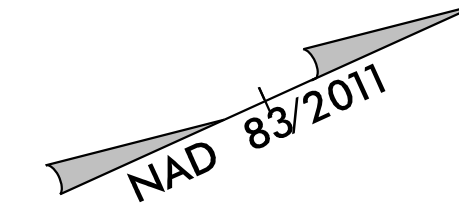
214  
RSL LLC  
DB 3319 PG 996  
PB 2010 PG 614

238  
LLOYD & MARGIE TURNAGE  
DB 1028 PG 580

227  
LLOYD & MARGIE TURNAGE  
DB 699 PG 491

PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-96/CONST.30
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 30



Place Matting for Erosion Control  
on Slope as Work Allows.  
Sta. 71+71 to Sta. 75+24 -SR15- RT  
Sta. 77+76 to Sta. 82+10 -SR15- RT  
Sta. 83+00 to Sta. 84+81 -SR15- RT

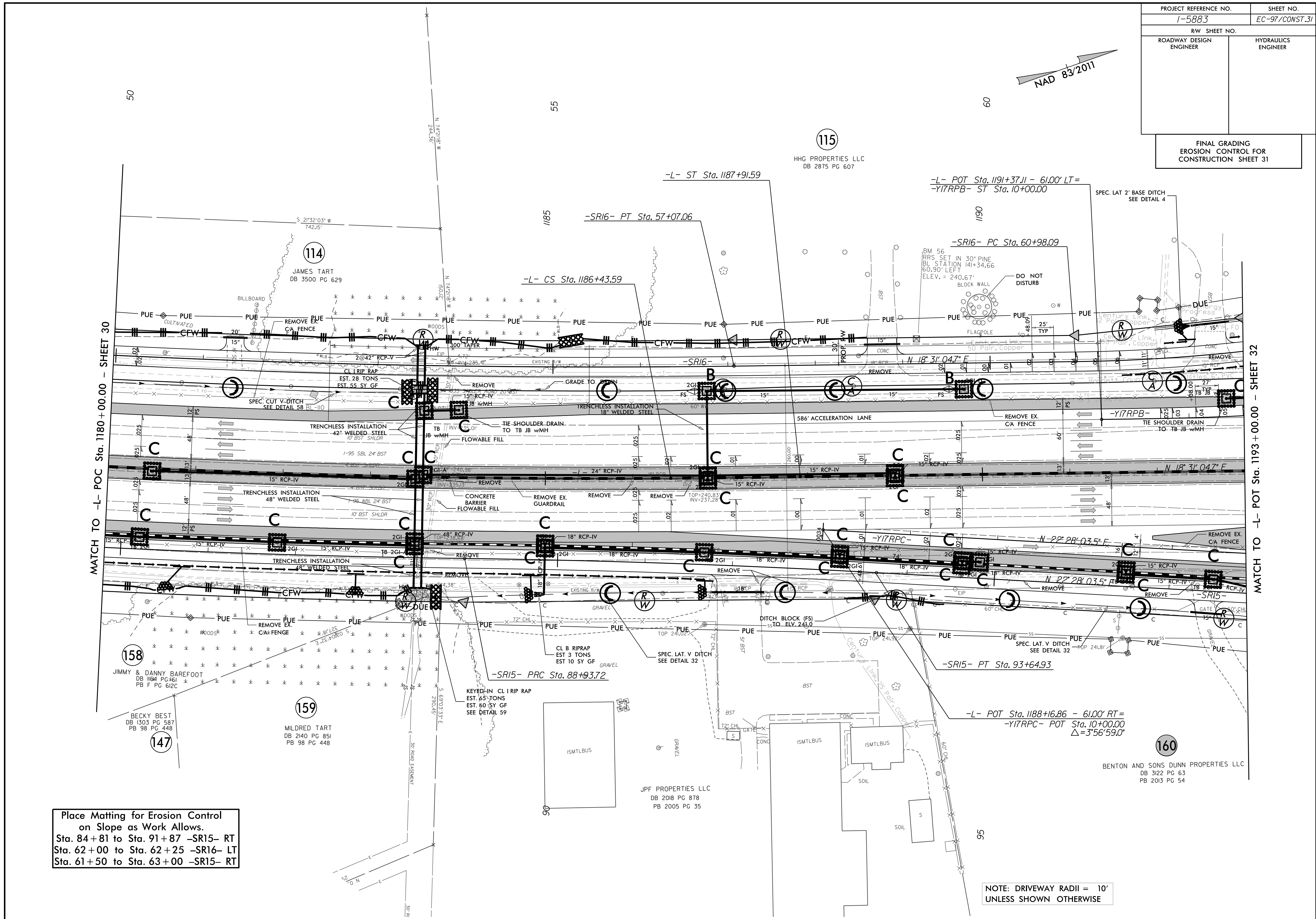
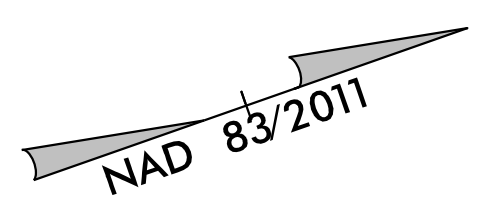
NOTE: DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE

MATCH TO -L- POS Sta. 1167+00.00 - SHEET 29

MATCH TO -L- POC Sta. 1180+00.00 - SHEET 31

MATCH TO -Y26- POT Sta. 12+00.00 - SHEET 62

PROJECT REFERENCE NO. 1-5883	SHEET NO. EC-97/CONST.31
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
FINAL GRADING EROSION CONTROL FOR CONSTRUCTION SHEET 31	



NOTE: DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE

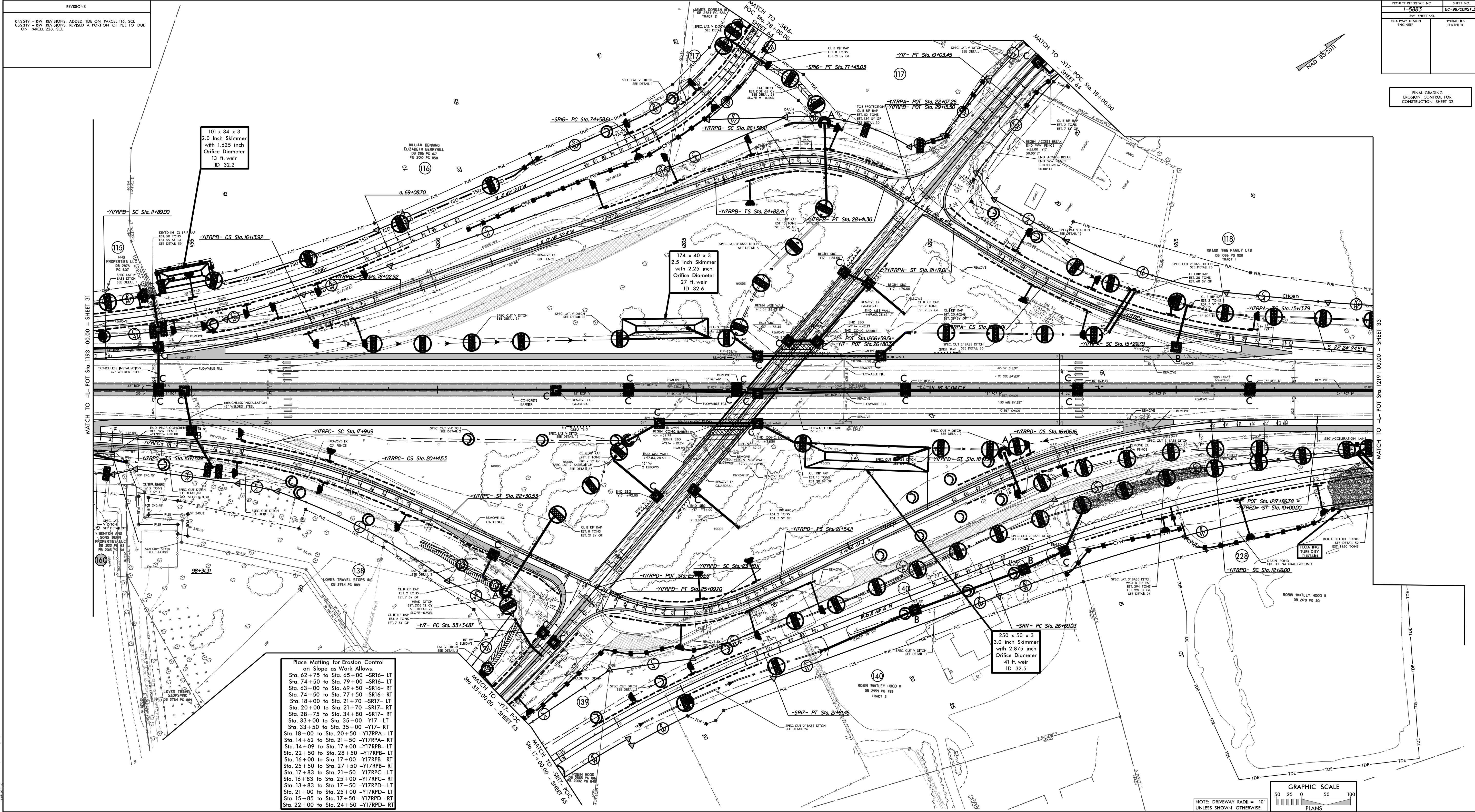
MATCH TO -L- POC Sta. 1180+00.00 - SHEET 30

MATCH TO -L- POT Sta. 1193+00.00 - SHEET 32

REVISIONS	
04/25/19	- RW REVISIONS ADDED TO PARCEL 116. SCL
02/25/19	- RW REVISIONS REVISED A PORTION OF PUE TO DUE ON PARCEL 228. SCL

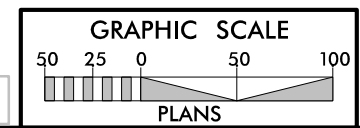
PROJECT REFERENCE NO.	7-5687
SHEET NO.	EC-98/CWST-32
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 32



Place Matting for Erosion Control on Slope as Work Allows.

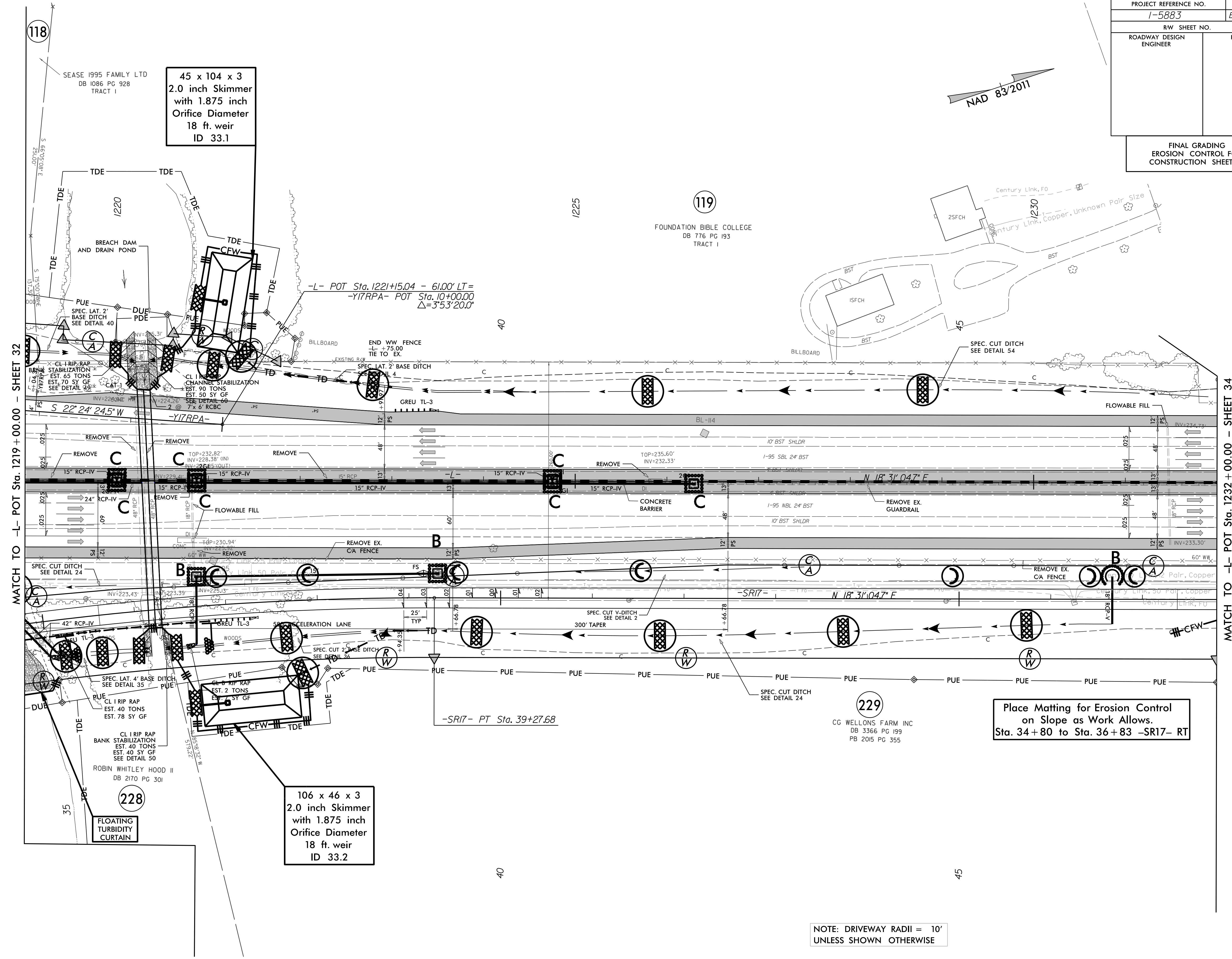
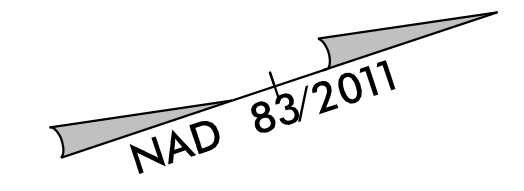
Sta. 62 + 75 to Sta. 65 + 00 -SR16- LT
Sta. 74 + 50 to Sta. 79 + 00 -SR16- LT
Sta. 63 + 00 to Sta. 69 + 50 -SR16- RT
Sta. 74 + 50 to Sta. 77 + 50 -SR16- RT
Sta. 18 + 00 to Sta. 21 + 70 -SR17- LT
Sta. 20 + 00 to Sta. 21 + 70 -SR17- RT
Sta. 28 + 75 to Sta. 34 + 80 -SR17- RT
Sta. 33 + 00 to Sta. 35 + 00 -Y17- LT
Sta. 33 + 50 to Sta. 35 + 00 -Y17- RT
Sta. 18 + 00 to Sta. 20 + 50 -Y17RPA- LT
Sta. 14 + 02 to Sta. 21 + 50 -Y17RPA- RT
Sta. 14 + 09 to Sta. 17 + 00 -Y17RPA- LT
Sta. 22 + 50 to Sta. 28 + 50 -Y17RPA- LT
Sta. 16 + 00 to Sta. 17 + 00 -Y17RPA- RT
Sta. 25 + 50 to Sta. 27 + 50 -Y17RPA- RT
Sta. 17 + 83 to Sta. 21 + 50 -Y17RPC- LT
Sta. 16 + 83 to Sta. 25 + 00 -Y17RPC- RT
Sta. 13 + 83 to Sta. 17 + 50 -Y17RPD- LT
Sta. 21 + 00 to Sta. 25 + 00 -Y17RPD- LT
Sta. 15 + 85 to Sta. 17 + 50 -Y17RPD- RT
Sta. 22 + 00 to Sta. 24 + 50 -Y17RPD- RT



NOTE: DRIVEWAY RADII = 10' UNLESS SHOWN OTHERWISE

1:48000 (SCL) (AS SHOWN) (SCL) (AS SHOWN)

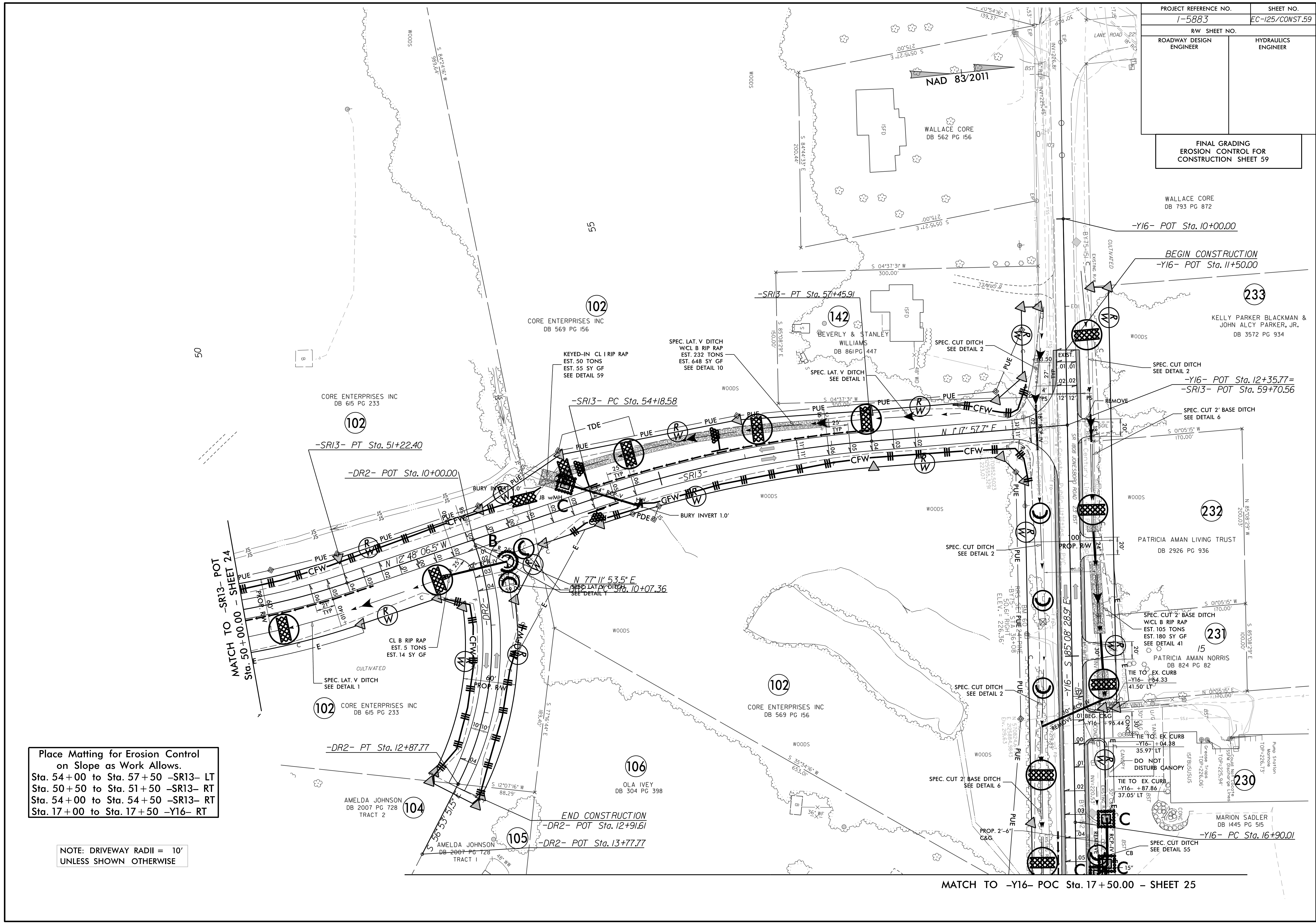
PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-99/CONST.33
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
FINAL GRADING EROSION CONTROL FOR CONSTRUCTION SHEET 33	



NOTE: DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE



PROJECT REFERENCE NO. <b>1-5883</b>		SHEET NO. <b>EC-125/CONST.59</b>	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
RW SHEET NO.			
FINAL GRADING EROSION CONTROL FOR CONSTRUCTION SHEET 59			



Place Matting for Erosion Control on Slope as Work Allows.  
 Sta. 54+00 to Sta. 57+50 -SR13- LT  
 Sta. 50+50 to Sta. 51+50 -SR13- RT  
 Sta. 54+00 to Sta. 54+50 -SR13- RT  
 Sta. 17+00 to Sta. 17+50 -Y16- RT

NOTE: DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE

MATCH TO -SR13- POT  
Sta. 50+00.00 - SHEET 24

MATCH TO -Y16- POC Sta. 17+50.00 - SHEET 25

END CONSTRUCTION  
-DR2- POT Sta. 12+91.61  
-DR2- POT Sta. 13+77.77

-Y16- POT Sta. 10+00.00  
BEGIN CONSTRUCTION  
-Y16- POT Sta. 11+50.00

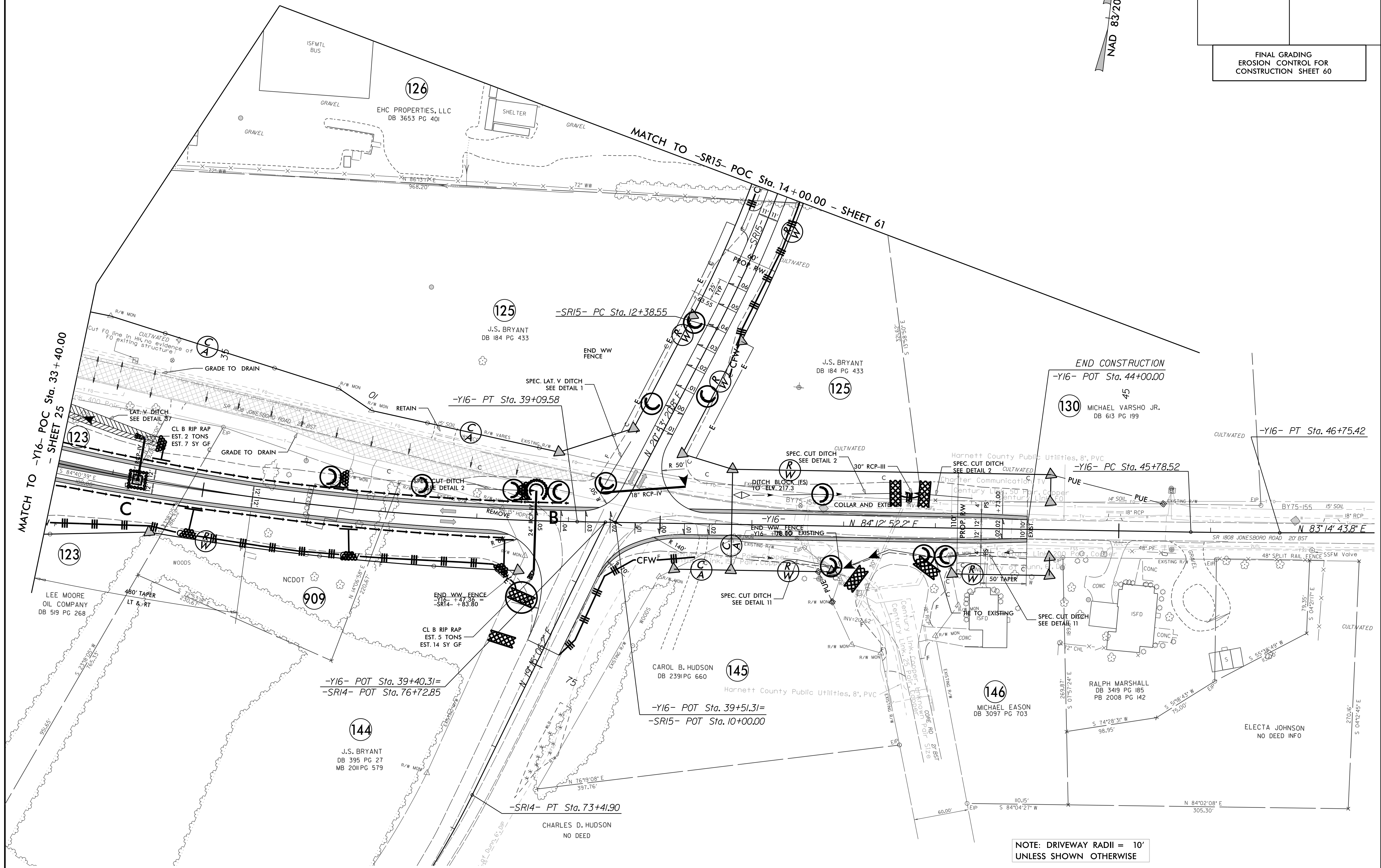
-Y16- POT Sta. 12+35.77=  
-SR13- POT Sta. 59+70.56

-Y16- PC Sta. 16+90.01

Place Matting for Erosion Control  
on Slope as Work Allows.  
Sta. 33+40 to Sta. 39+00 -Y16- LT  
Sta. 33+40 to Sta. 38+30 -Y16- RT

PROJECT REFERENCE NO. 1-5883	SHEET NO. EC-126/CONST.60
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
FINAL GRADING EROSION CONTROL FOR CONSTRUCTION SHEET 60	

NAD 83/2011

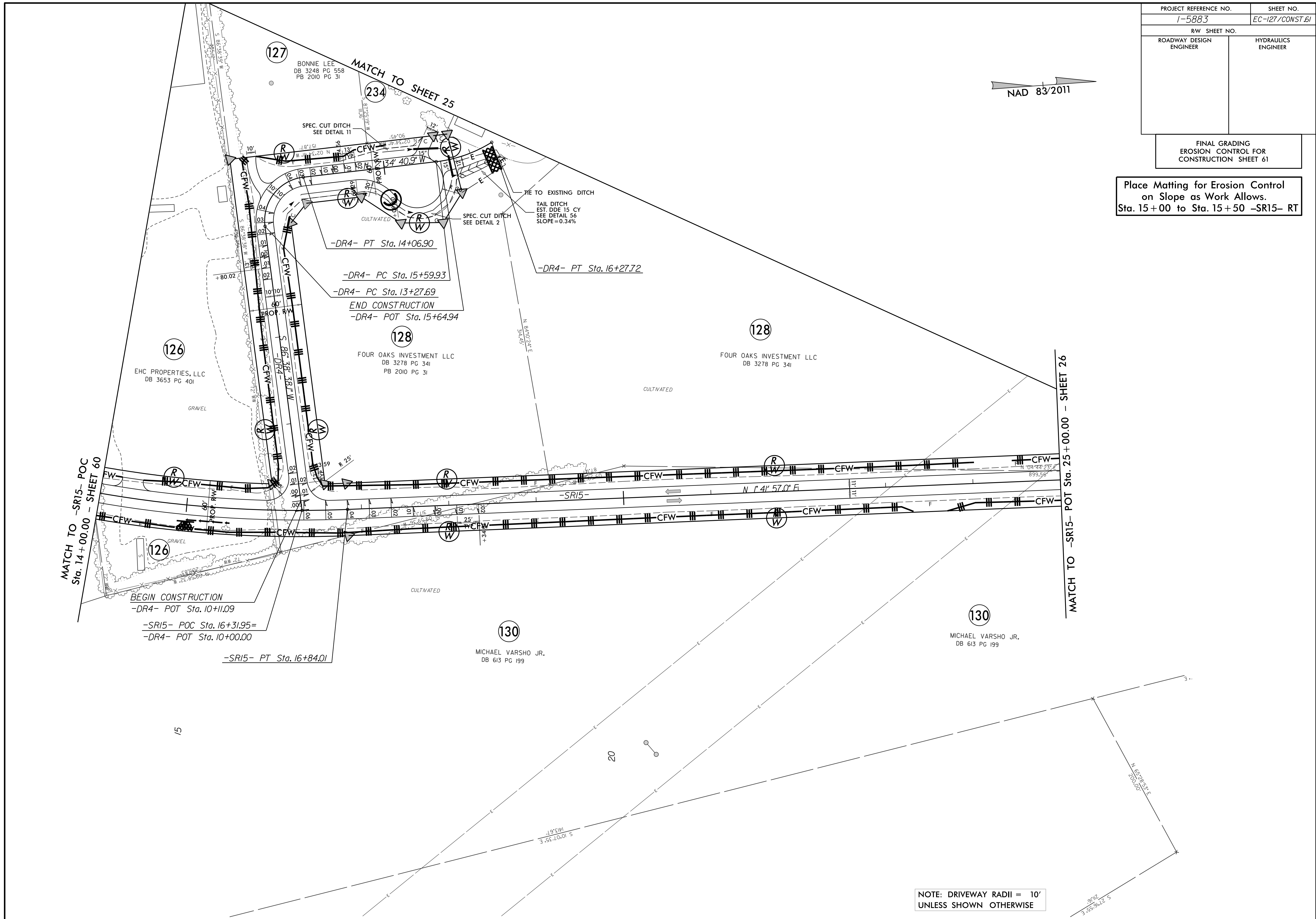
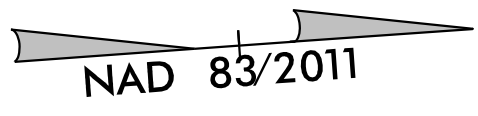


NOTE: DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE

PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-127/CONST.61
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

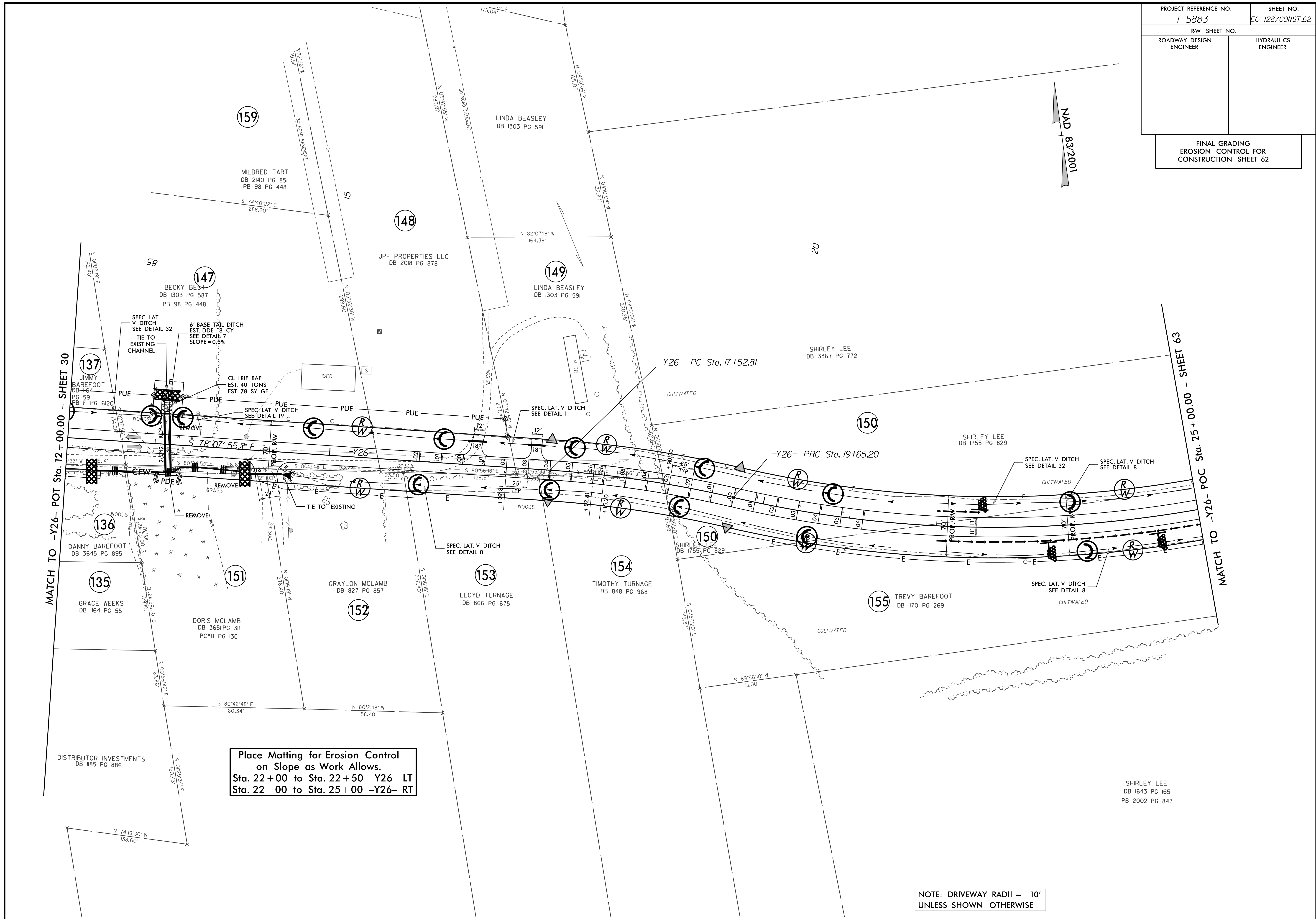
FINAL GRADING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 61

Place Matting for Erosion Control  
on Slope as Work Allows.  
Sta. 15+00 to Sta. 15+50 -SR15- RT



NOTE: DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE

PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-128/CONST.62
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
FINAL GRADING EROSION CONTROL FOR CONSTRUCTION SHEET 62	



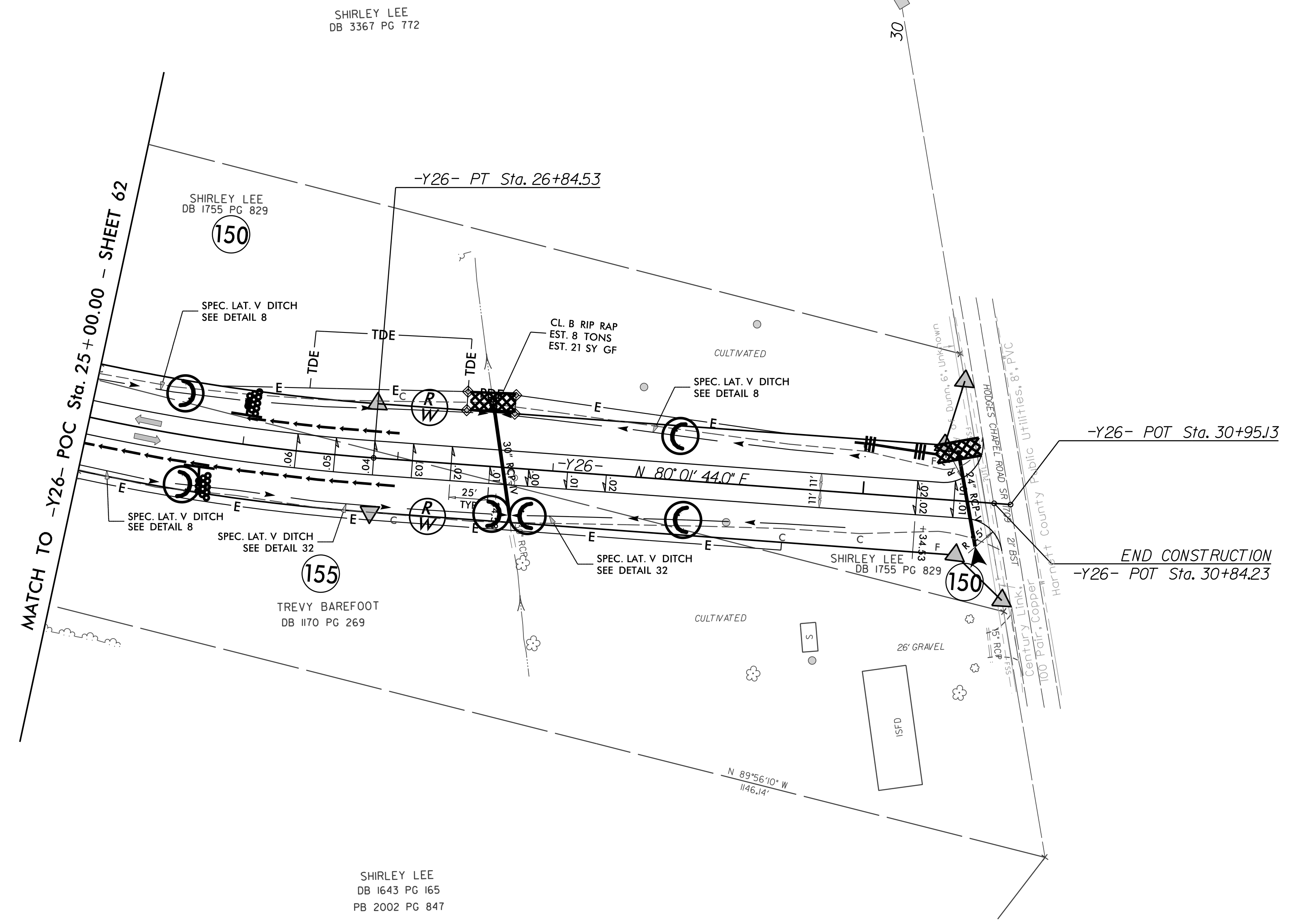
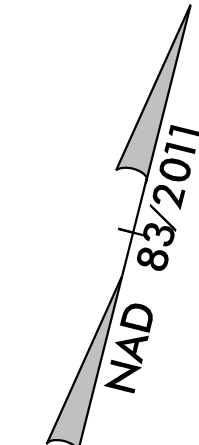
Place Matting for Erosion Control  
on Slope as Work Allows.  
Sta. 22+00 to Sta. 22+50 -Y26- LT  
Sta. 22+00 to Sta. 25+00 -Y26- RT

NOTE: DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE

PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-129/CONST.63
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 63

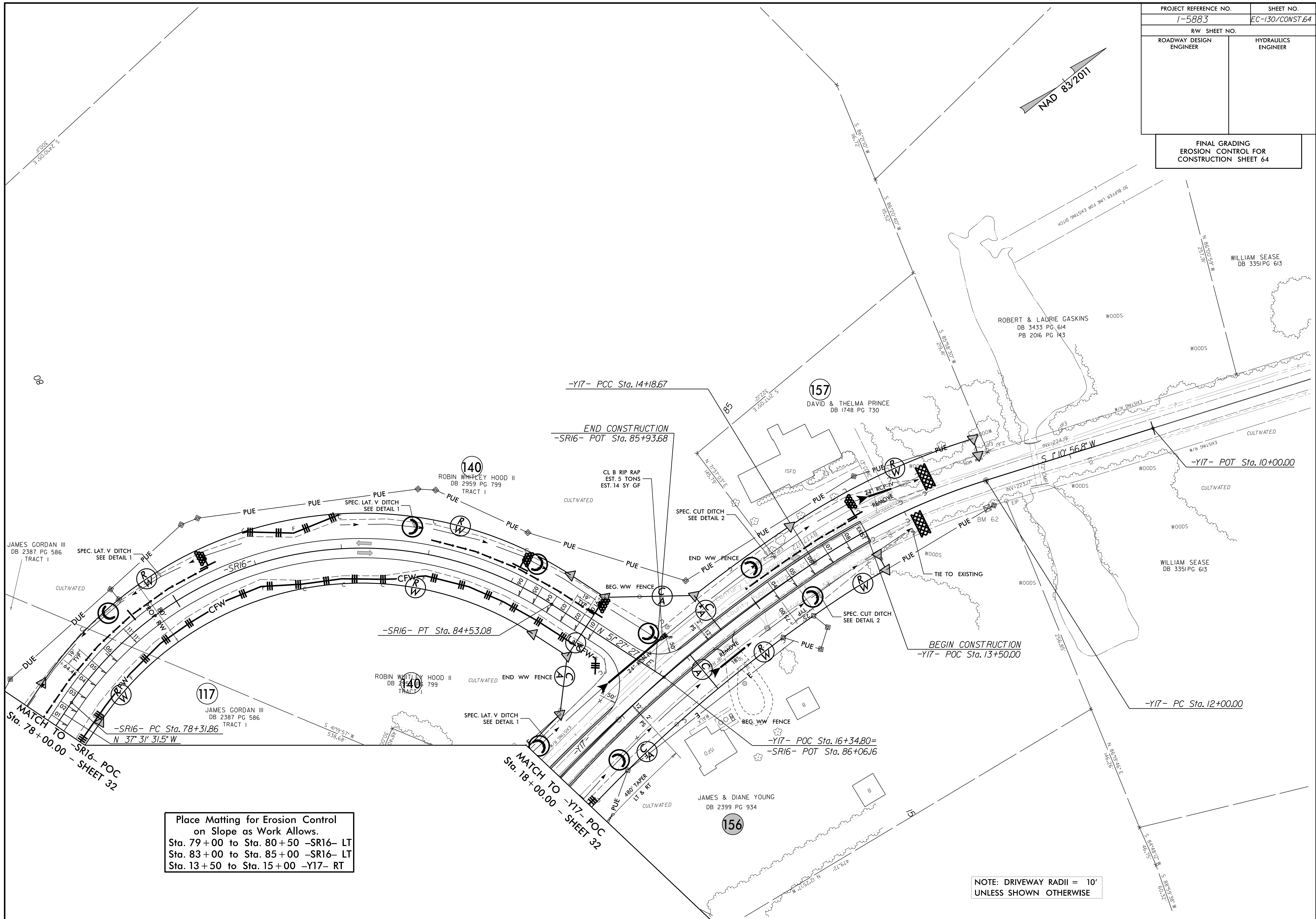
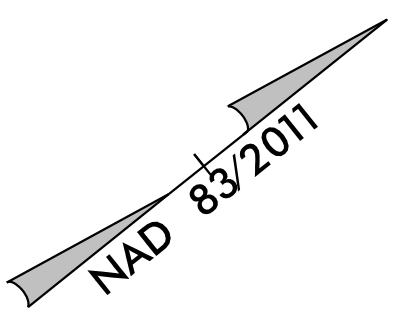
Place Matting for Erosion Control  
on Slope as Work Allows.  
Sta. 26+00 to Sta. 27+00 -Y26- LT  
Sta. 25+00 to Sta. 27+00 -Y26- RT



NOTE: DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE

PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-130/CONST.64
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 64



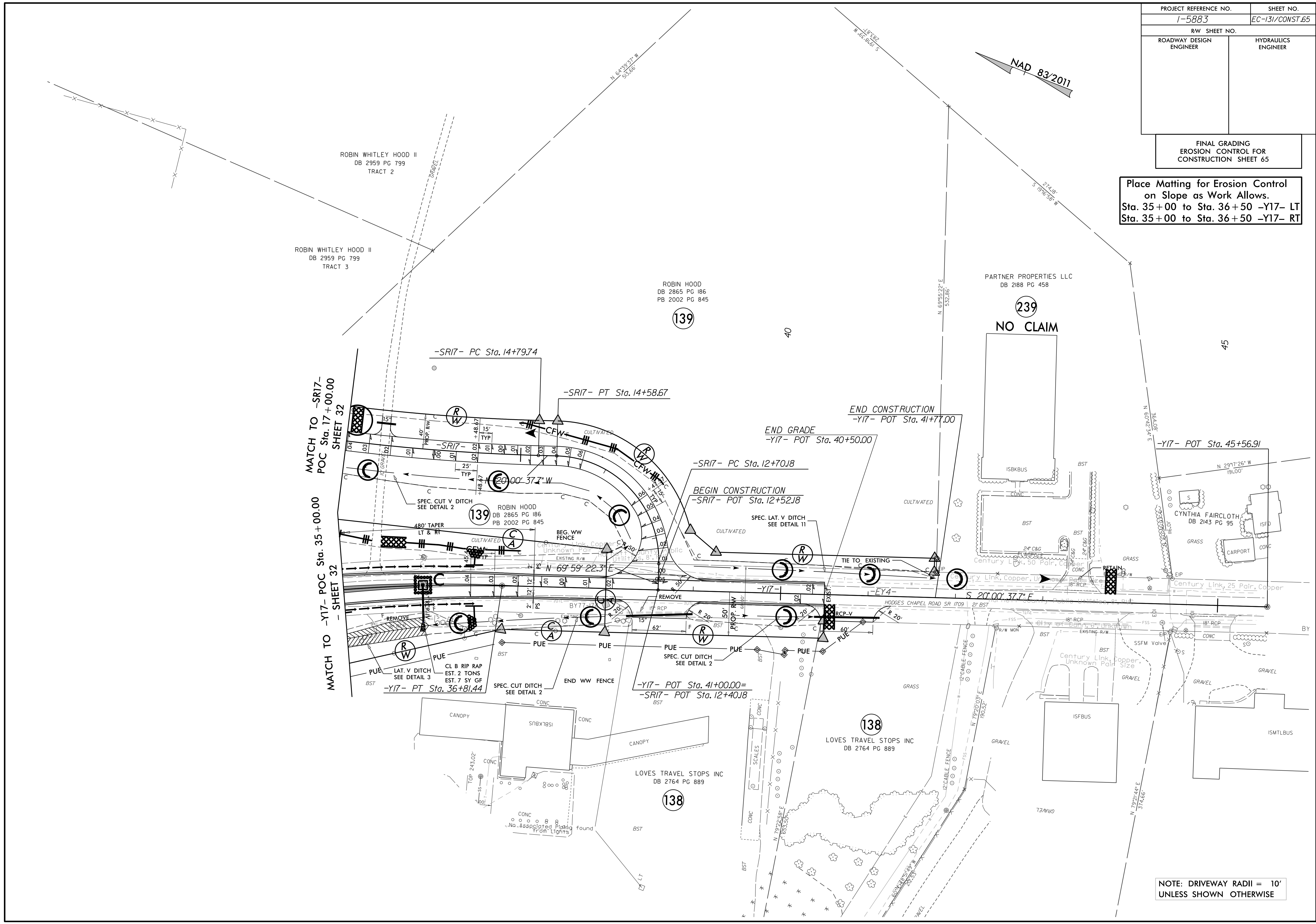
Place Matting for Erosion Control  
on Slope as Work Allows.  
Sta. 79+00 to Sta. 80+50 -SR16- LT  
Sta. 83+00 to Sta. 85+00 -SR16- LT  
Sta. 13+50 to Sta. 15+00 -Y17- RT

NOTE: DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE

PROJECT REFERENCE NO.	SHEET NO.
1-5883	EC-131/CONST.65
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 65

Place Matting for Erosion Control  
on Slope as Work Allows.  
Sta. 35+00 to Sta. 36+50 -Y17- LT  
Sta. 35+00 to Sta. 36+50 -Y17- RT



NOTE: DRIVEWAY RADII = 10'  
UNLESS SHOWN OTHERWISE