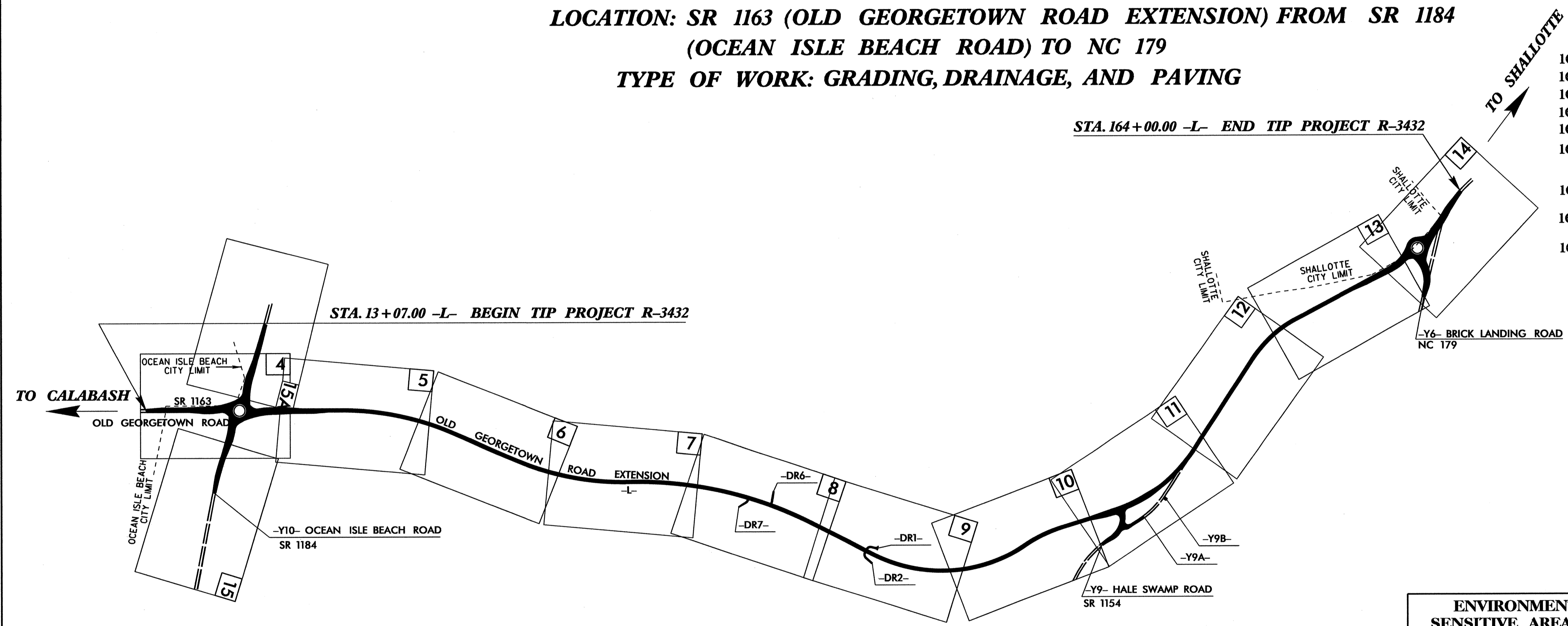
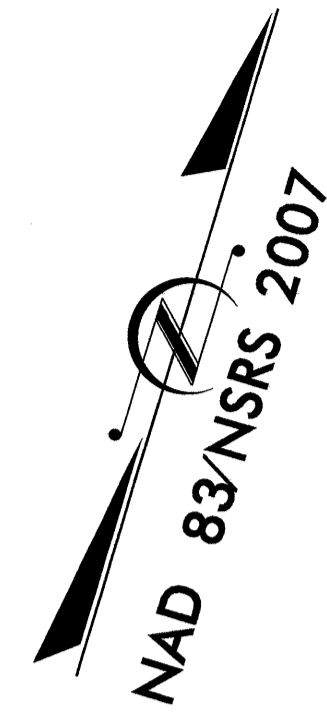


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-3432	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

TIP PROJECT: R-3432

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

LOCATION: SR 1163 (OLD GEORGETOWN ROAD EXTENSION) FROM SR 1184 (OCEAN ISLE BEACH ROAD) TO NC 179
TYPE OF WORK: GRADING, DRAINAGE, AND PAVING



EROSION AND SEDIMENT CONTROL MEASURES

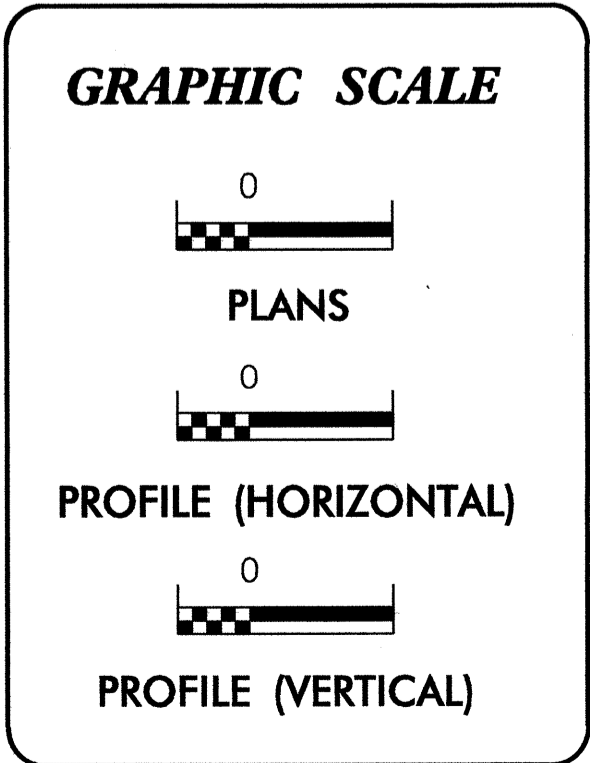
Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	III III III
1622.01	Temporary Berms and Slope Drains	—
1630.02	Silt Basin Type B	□
1633.01	Temporary Rock Silt Check Type-A	⊗
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	⊗
1633.02	Temporary Rock Silt Check Type-B	⊗
	Wattle/Coir Fiber Wattle	—
	Wattle/Coir Fiber Wattle with Polyacrylamide (PAM)	—
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	□
1630.06	Special Stilling Basin	□
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	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.

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

HIGH QUALITY WATER(S) EXIST ON THIS PROJECT
High Quality Water Zone(s) Exist From Sta. _____ to Sta. _____
Refer To E. C. Special Provisions for Special Considerations.



ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared In the Office of:
ROADSIDE ENVIRONMENTAL UNIT
1 South Wilmington St.
Raleigh, NC 27611
2012 STANDARD SPECIFICATIONS

Roadway Standard Drawings

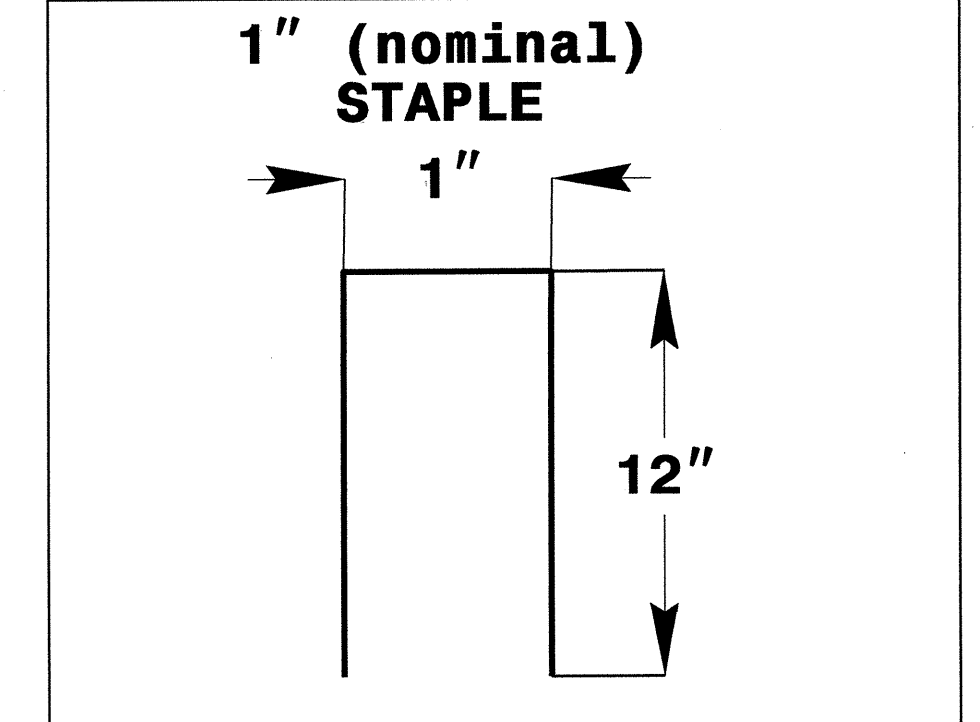
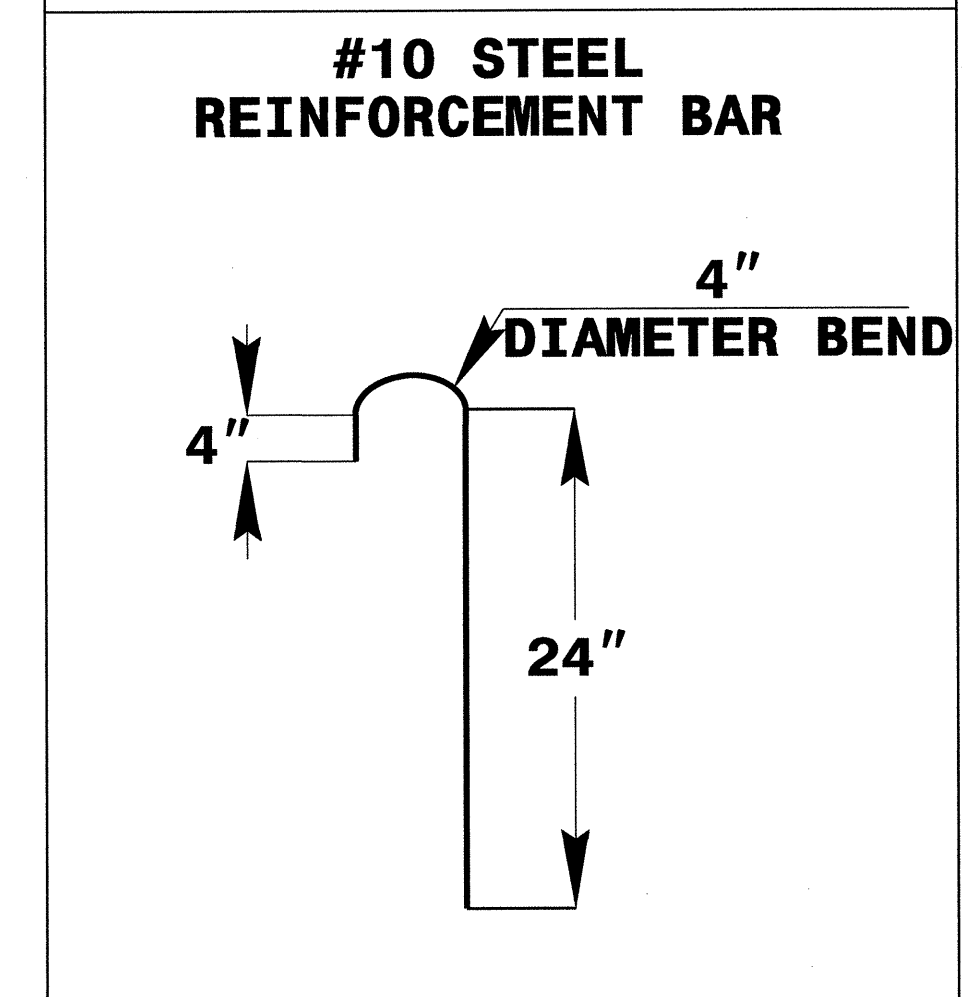
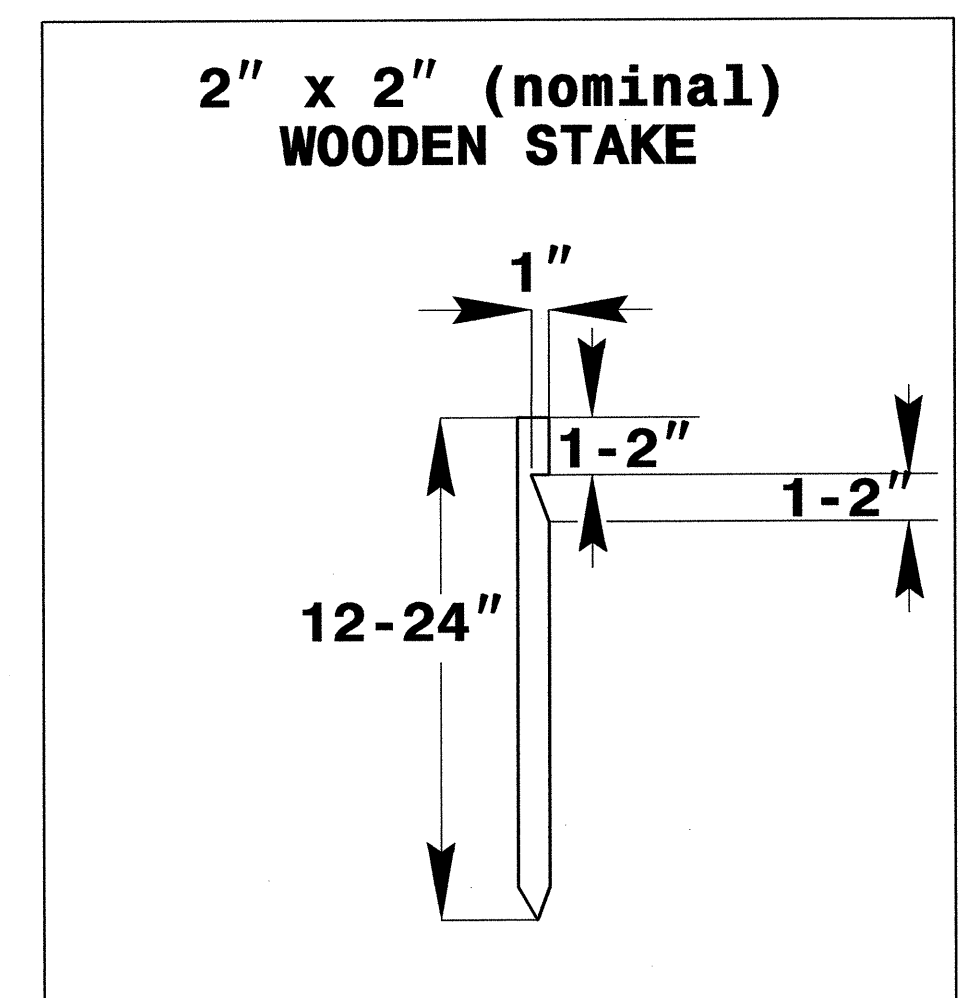
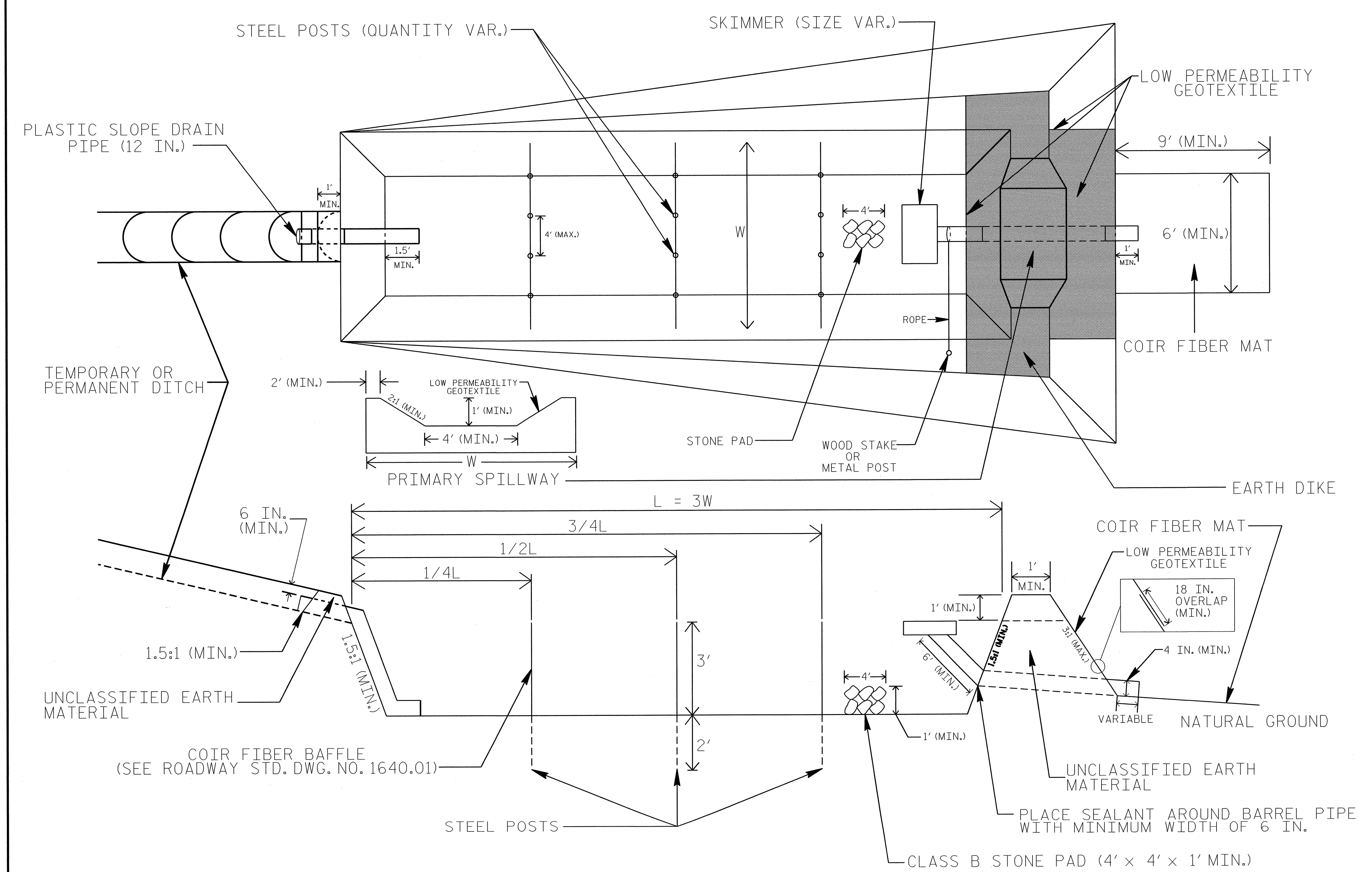
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2012 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

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	

03-MAR-2013 09:48 R:\Environment\3432\3432-EC.tah.dgn Jerrin.Torres

PROJECT REFERENCE NO. R-3432	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SKIMMER BASIN WITH BAFFLES DETAIL (EAST)



COIR FIBER MAT ANCHOR OPTIONS

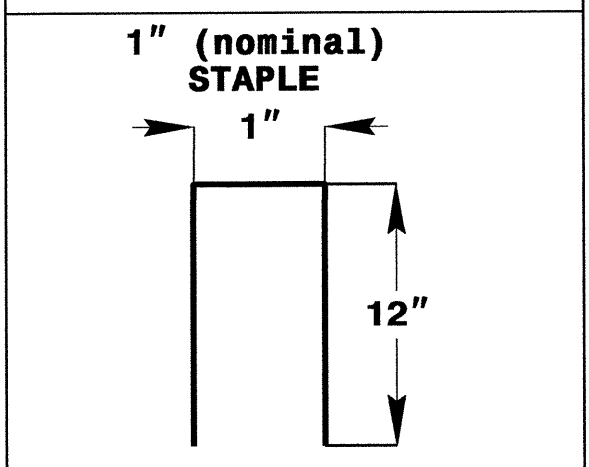
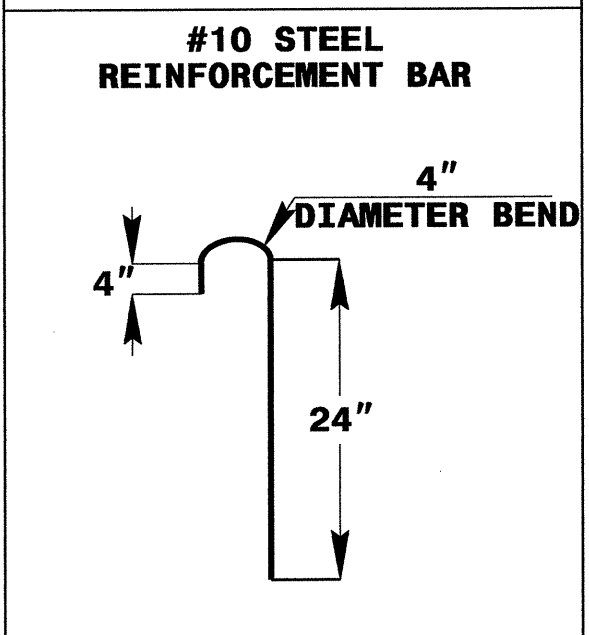
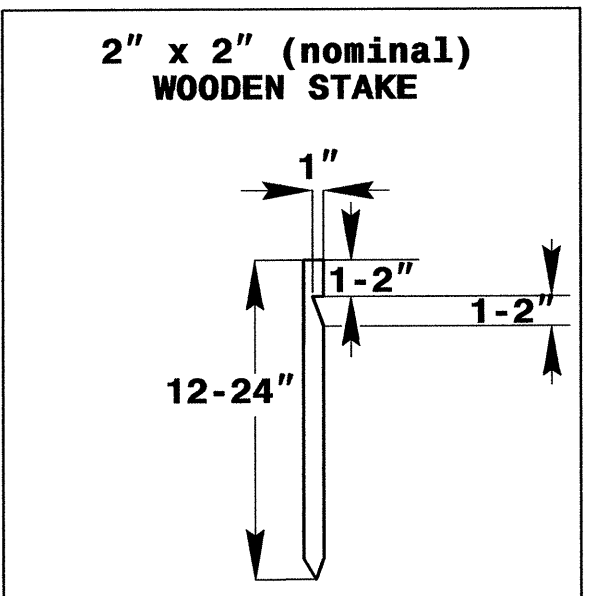
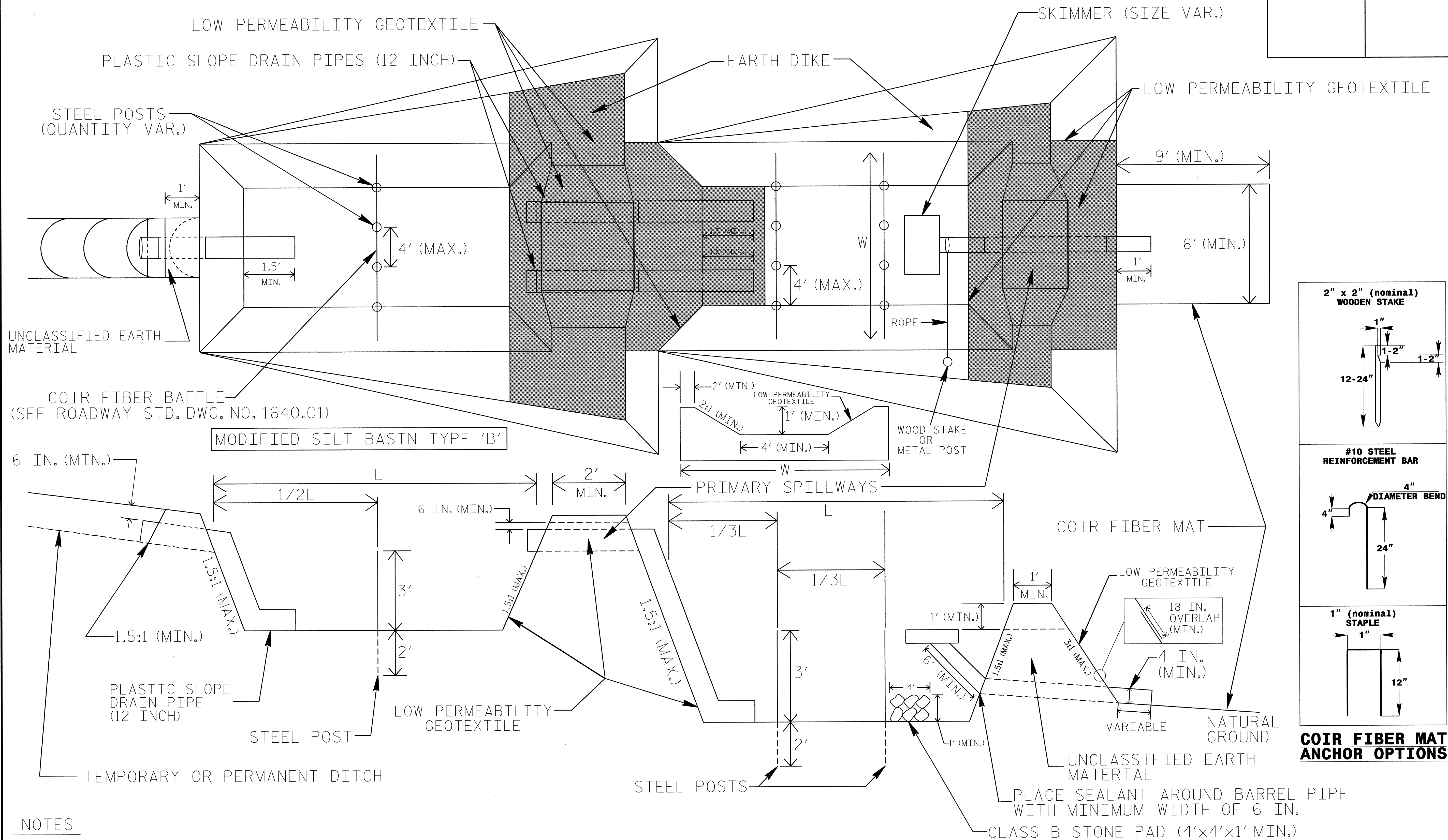
NOTES

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 $Q/0.4$, 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

PROJECT REFERENCE NO. R-3432	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TIERED SKIMMER BASIN DETAIL (EAST)



COIR FIBER MAT ANCHOR OPTIONS

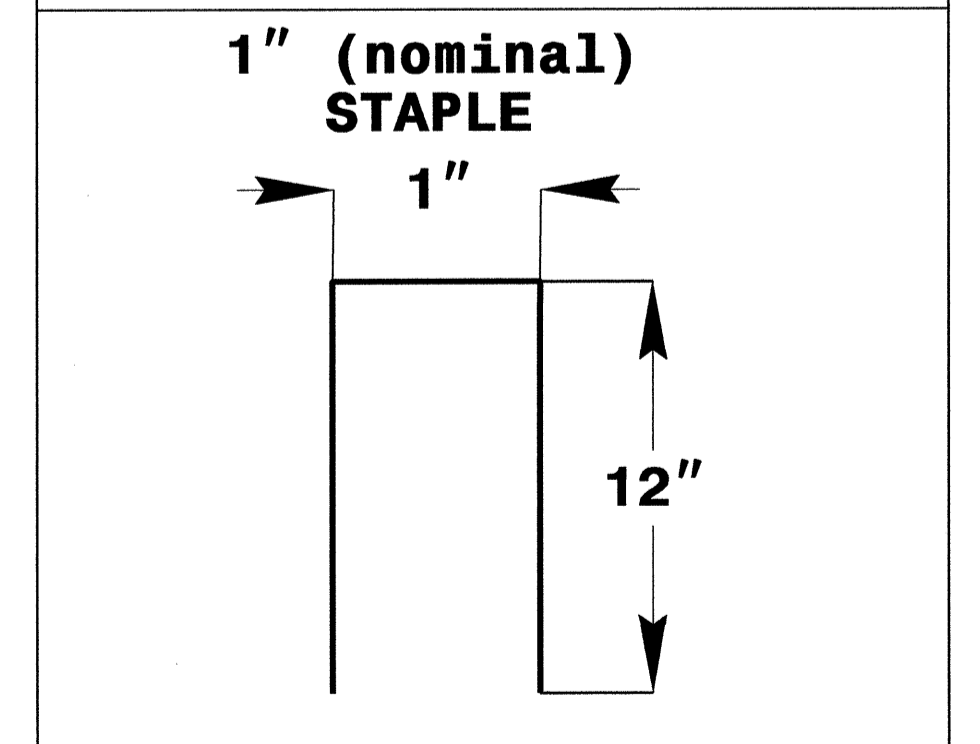
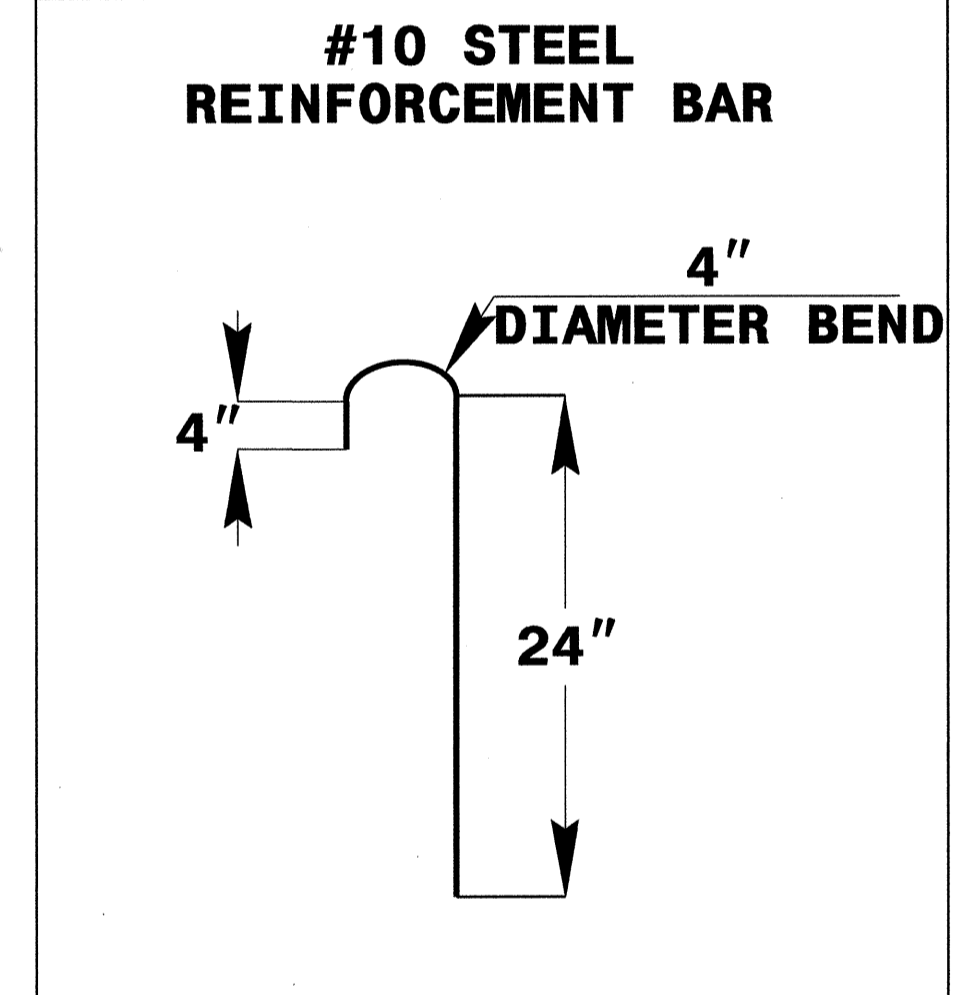
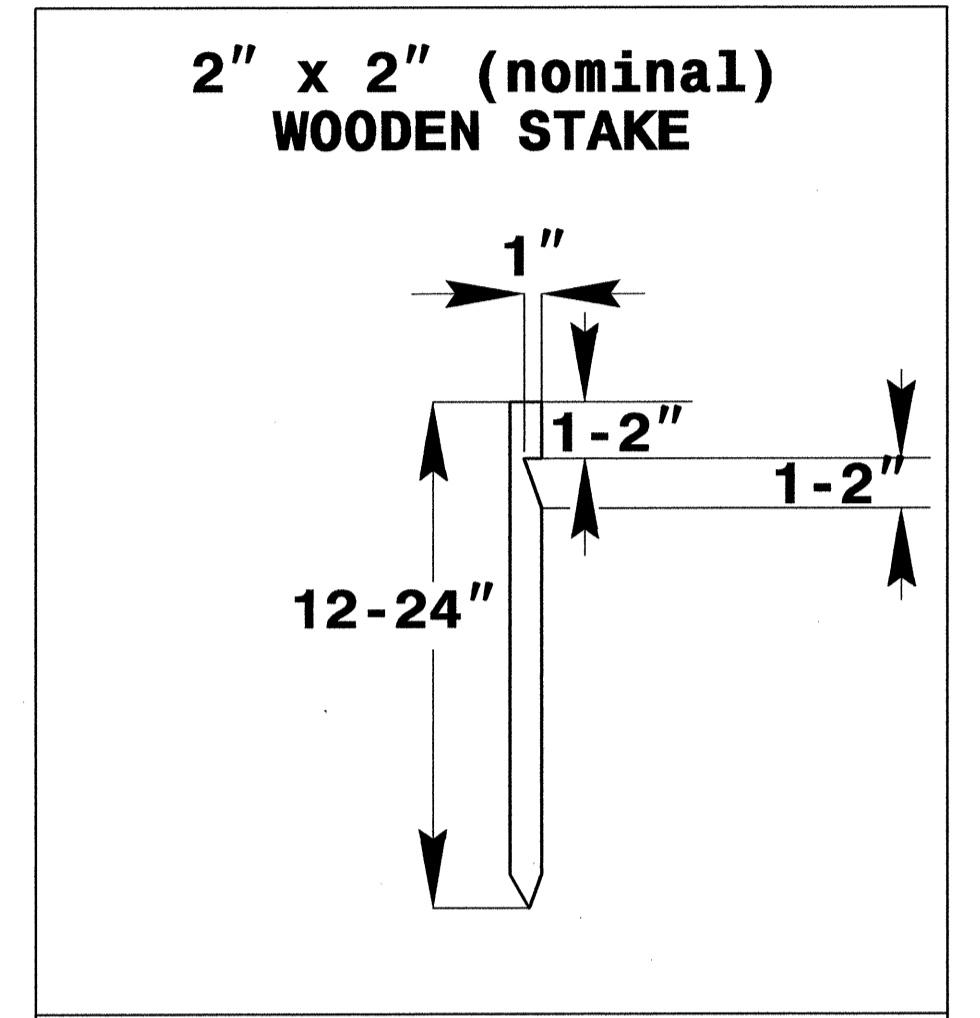
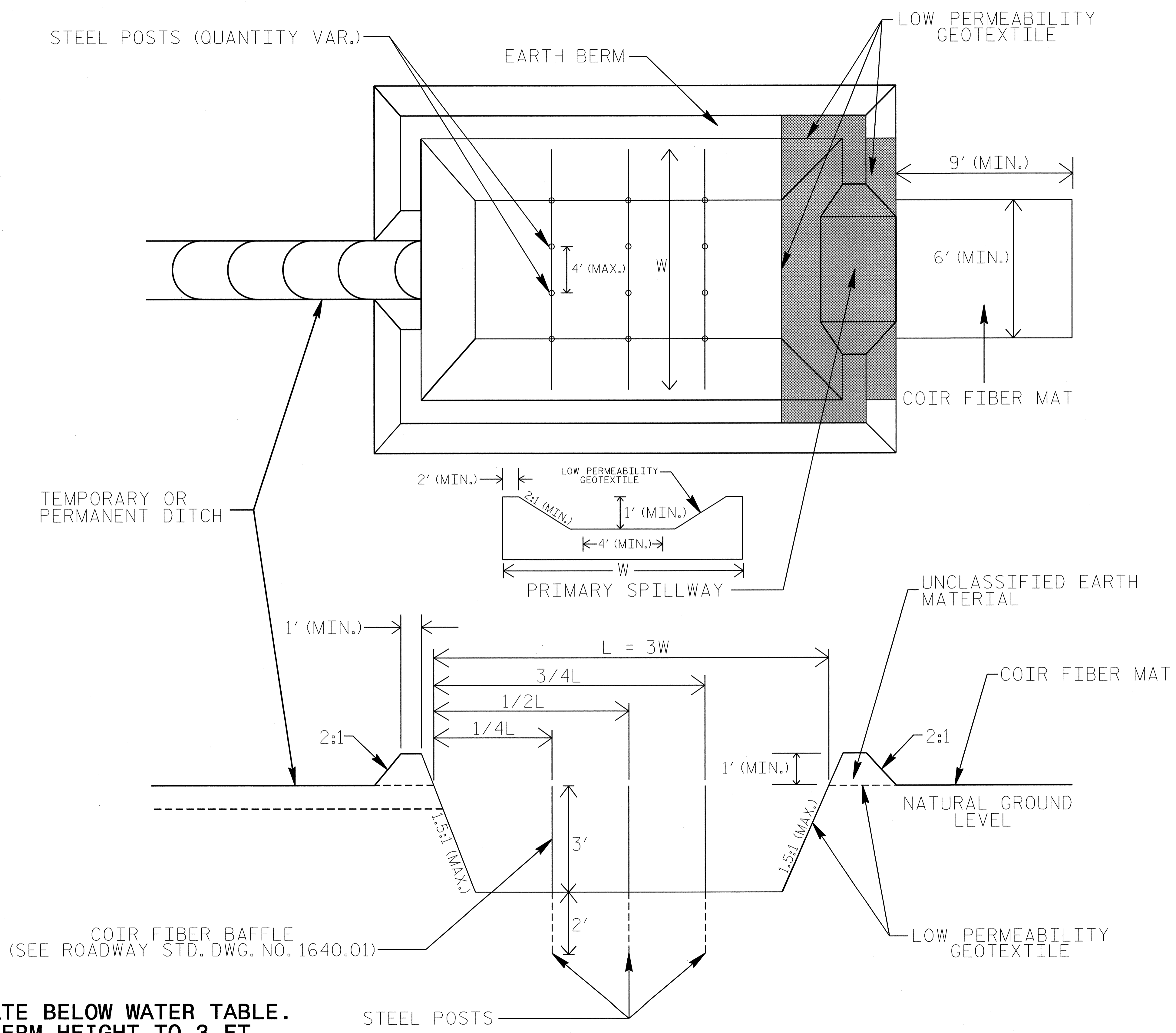
NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR 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.
4. FOR BASIN DEPTHS OF 3FT., THE MINIMUM BASIN WIDTHS SHALL BE 9 FT.
5. DETERMINE PRIMARY SPILLWAY LENGTHS (FT.) USING $Q/0.4$, WHERE Q IS FLOW RATE (CFS) INTO UPPER BASIN.
6. LOW PERMEABILITY GEOTEXTILE FOR PRIMARY SPILLWAYS SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

NOT TO SCALE

INFILTRATION BASIN WITH BAFFLES DETAIL (EAST)

PROJECT REFERENCE NO. <i>R-3432</i>	SHEET NO. <i>EC-2B</i>
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



COIR FIBER MAT ANCHOR OPTIONS

NOTES

1. DO NOT EXCAVATE BELOW WATER TABLE.
2. LIMIT EARTH BERM HEIGHT TO 3 FT.
3. AVOID COMPACTING BOTTOM OF BASIN.
4. FOR BASIN DEPTH OF 3 FT., THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
5. DETERMINE PRIMARY SPILLWAY LENGTH (FT.) USING $Q/0.4$, WHERE Q IS FLOW RATE (CFS) INTO BASIN.

NOT TO SCALE

BORROW PIT DEWATERING BASIN DETAIL

PROJECT REFERENCE NO. R-3432	SHEET NO. EC-2C
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 (FT³), 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 1060-14.

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.

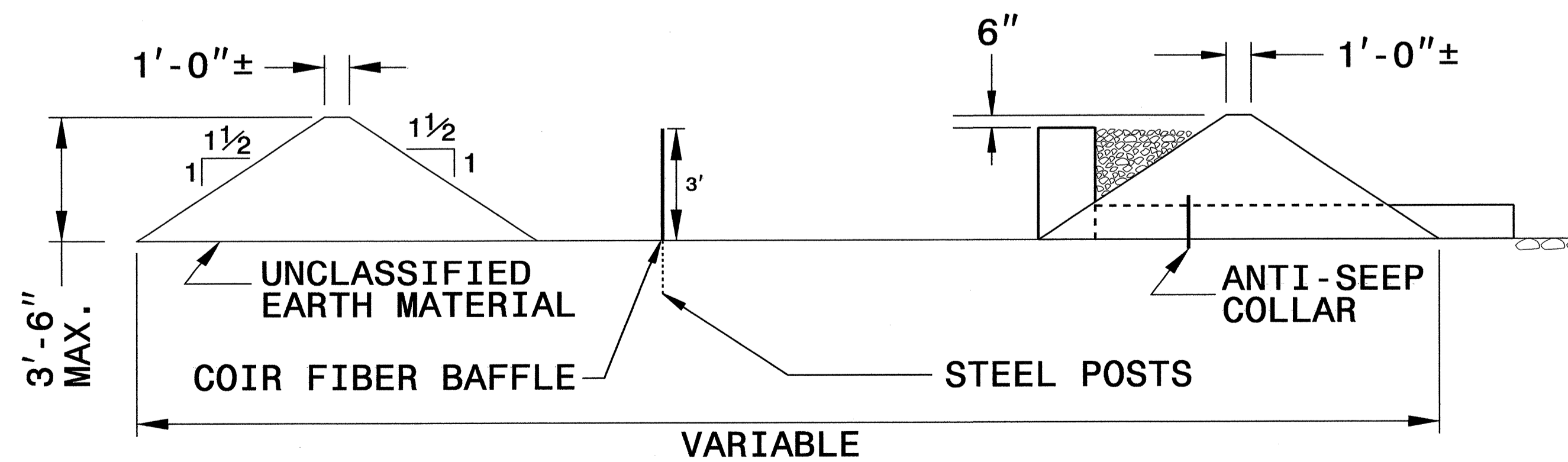
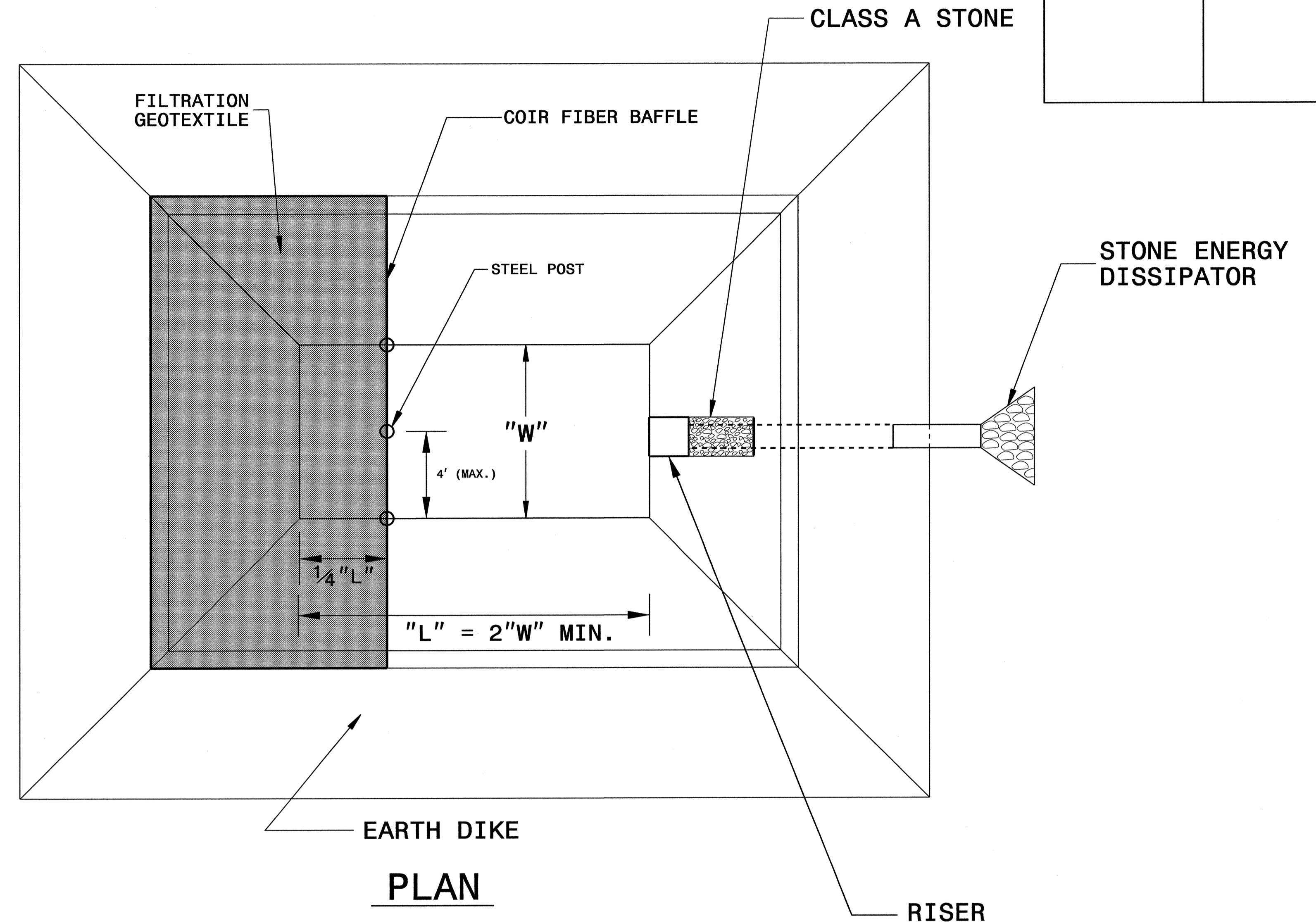
DO NOT EXCEED 3½ FT. IN HEIGHT FOR THE EARTH DIKES REQUIRED FOR BORROW PIT DEWATERING BASIN.

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.

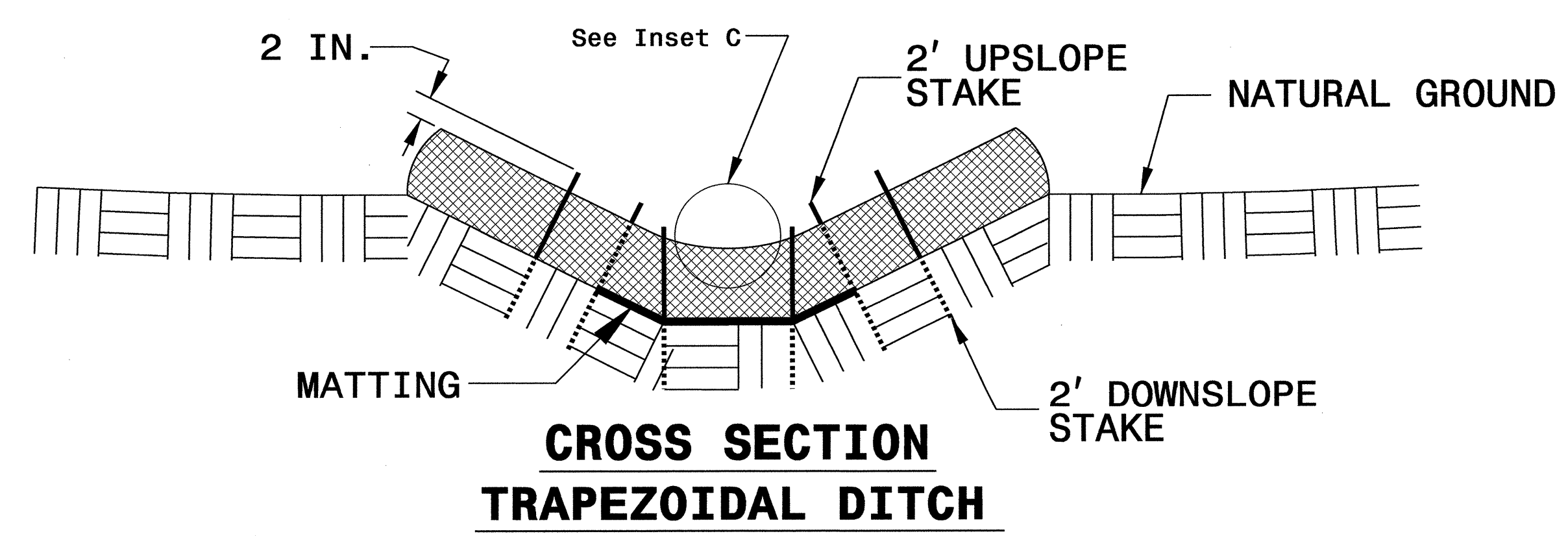
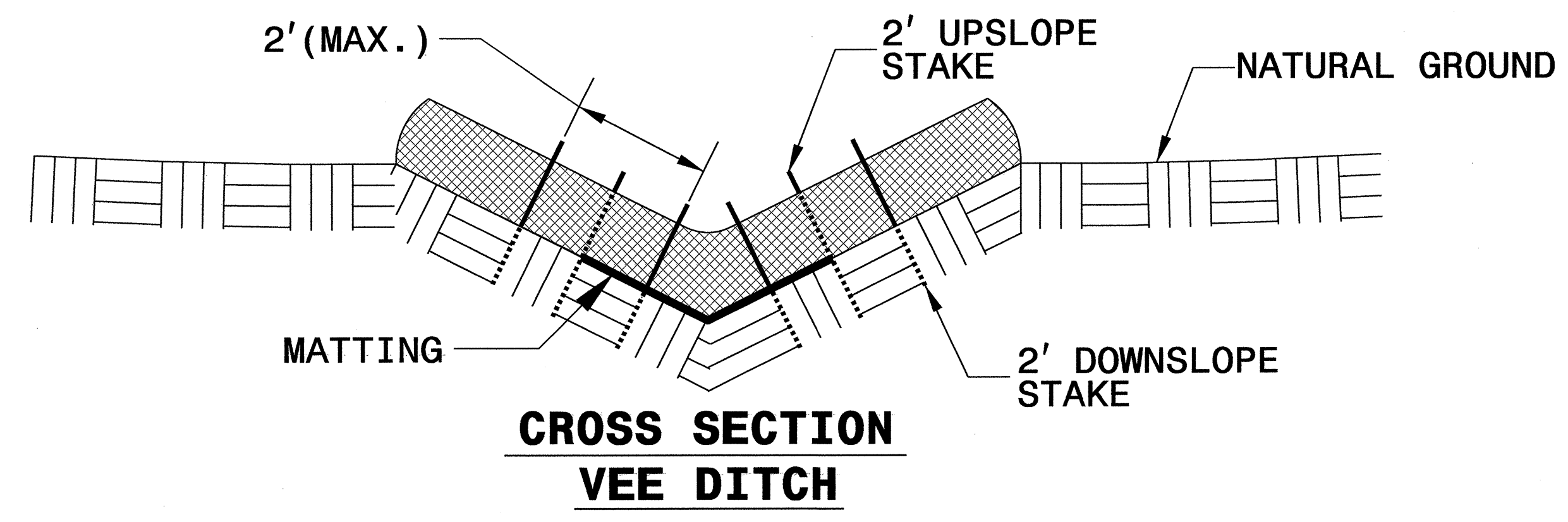
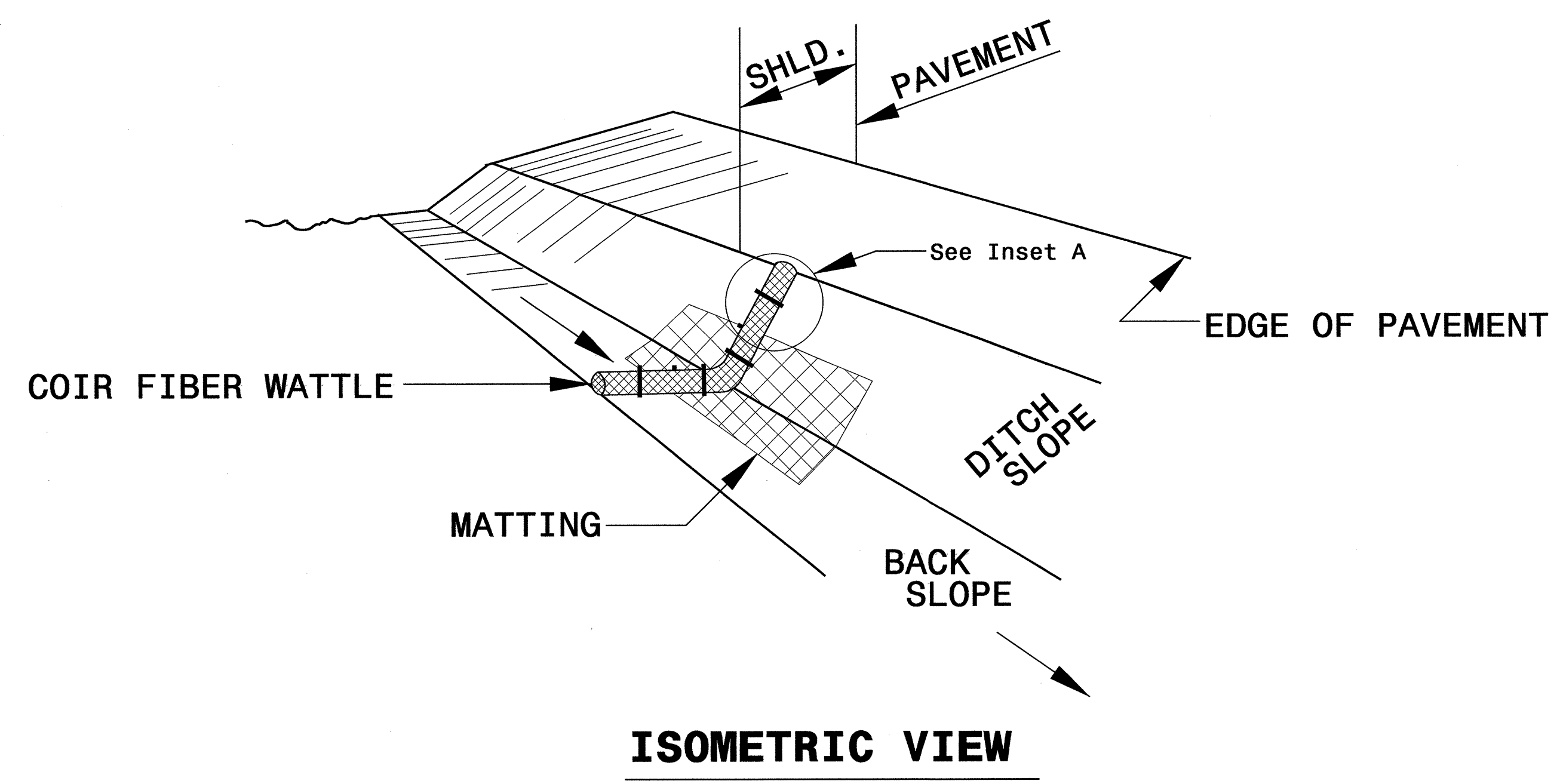


TYPICAL SECTION VIEW

NOT TO SCALE

PROJECT REFERENCE NO. R-3432	SHEET NO. EC-2D
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.

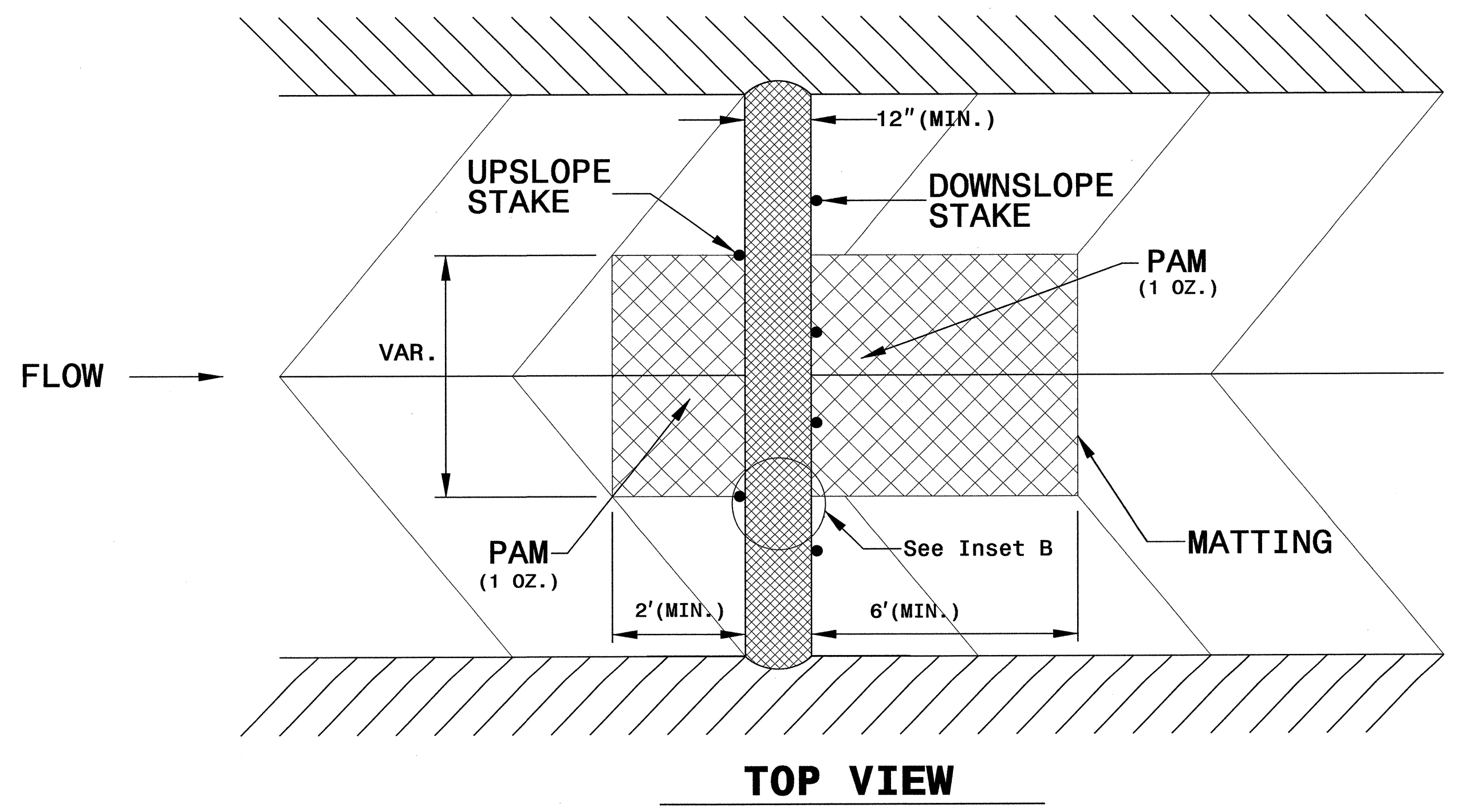
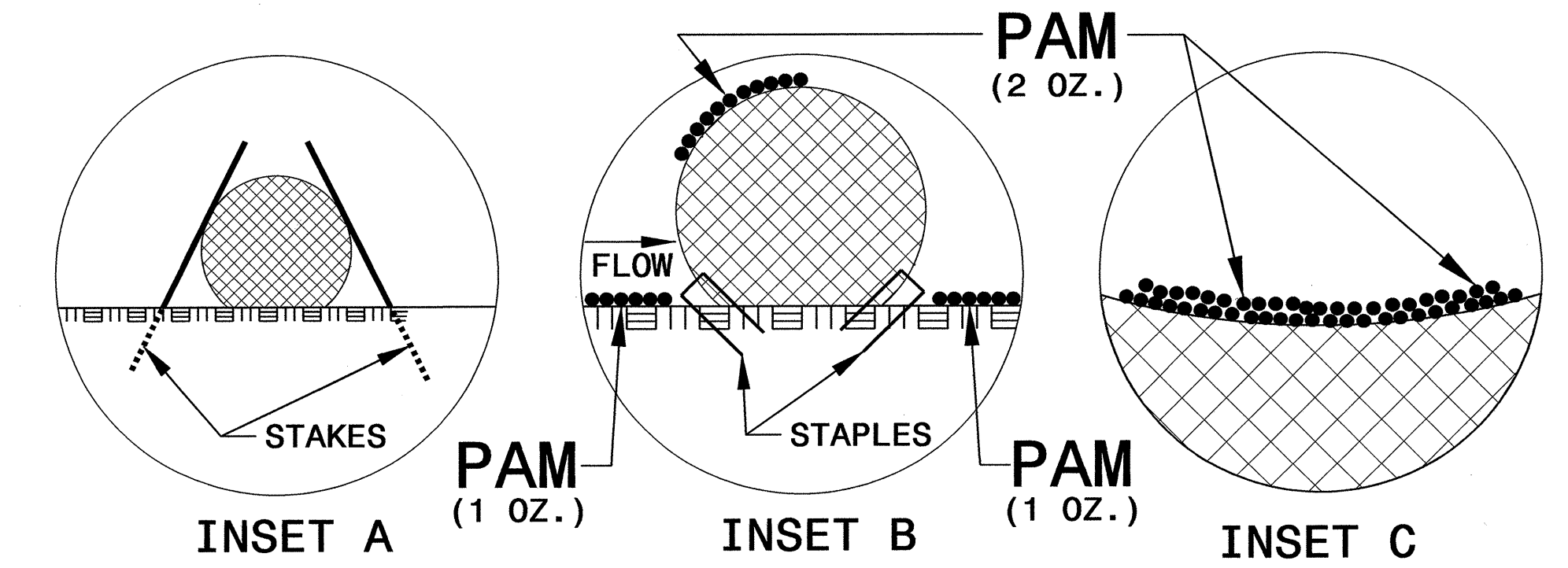
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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.

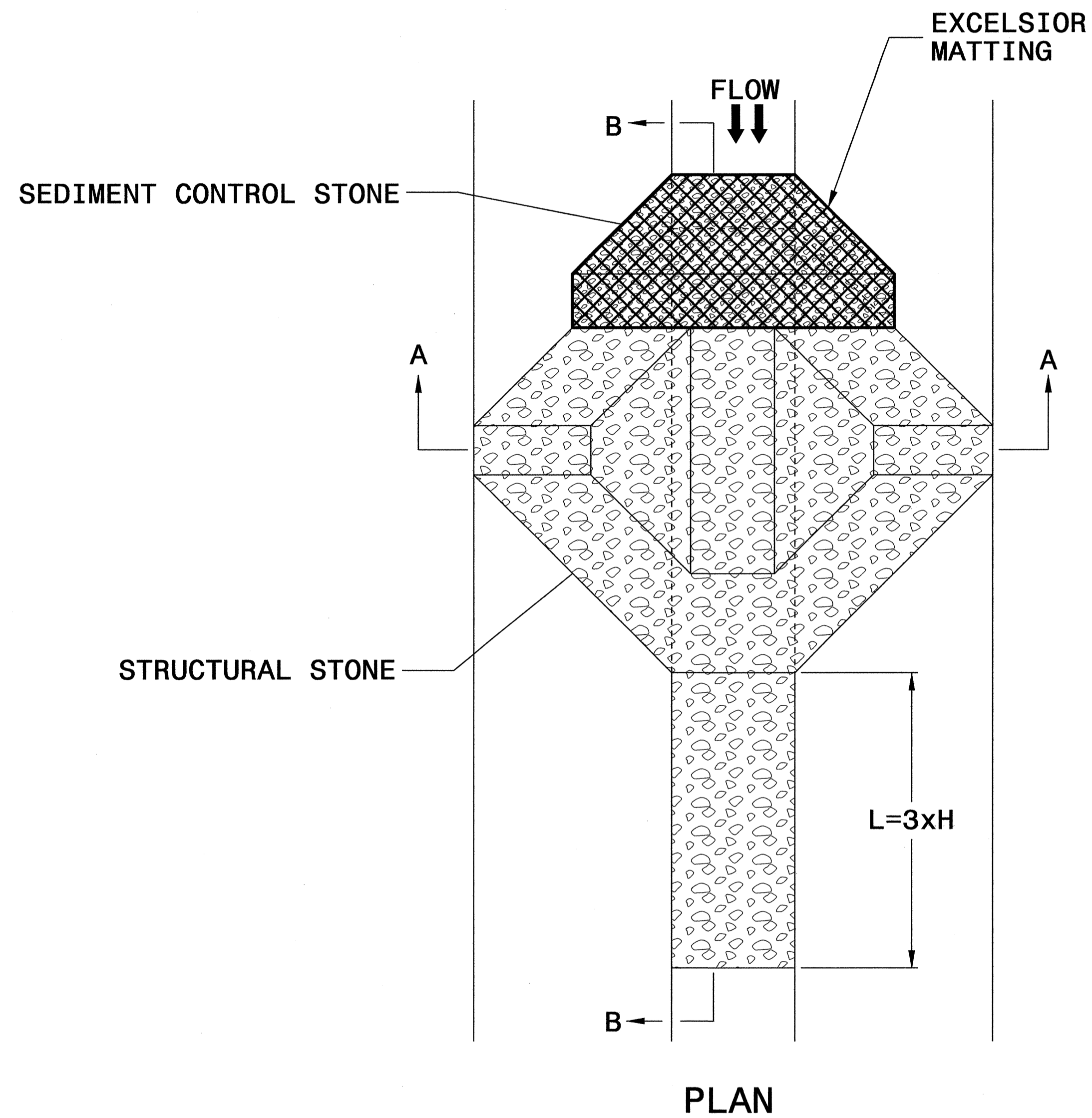
PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

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



PROJECT REFERENCE NO. R-3432	SHEET NO. EC-2E
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

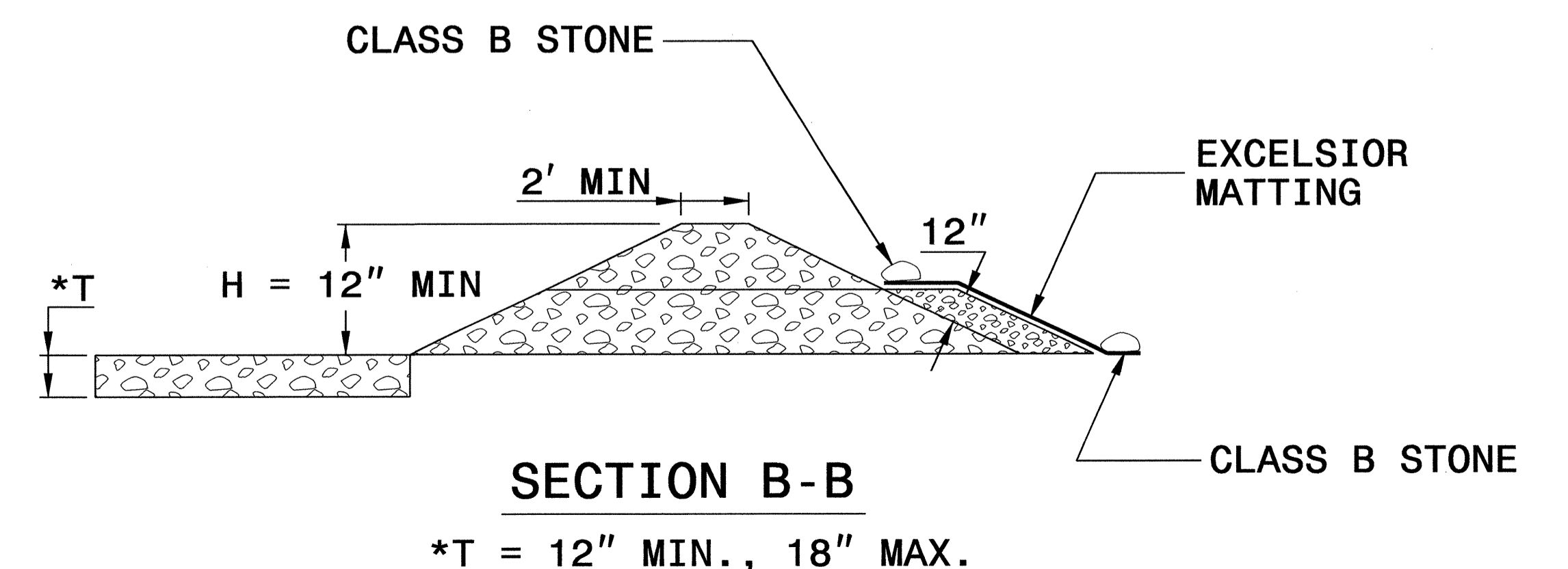
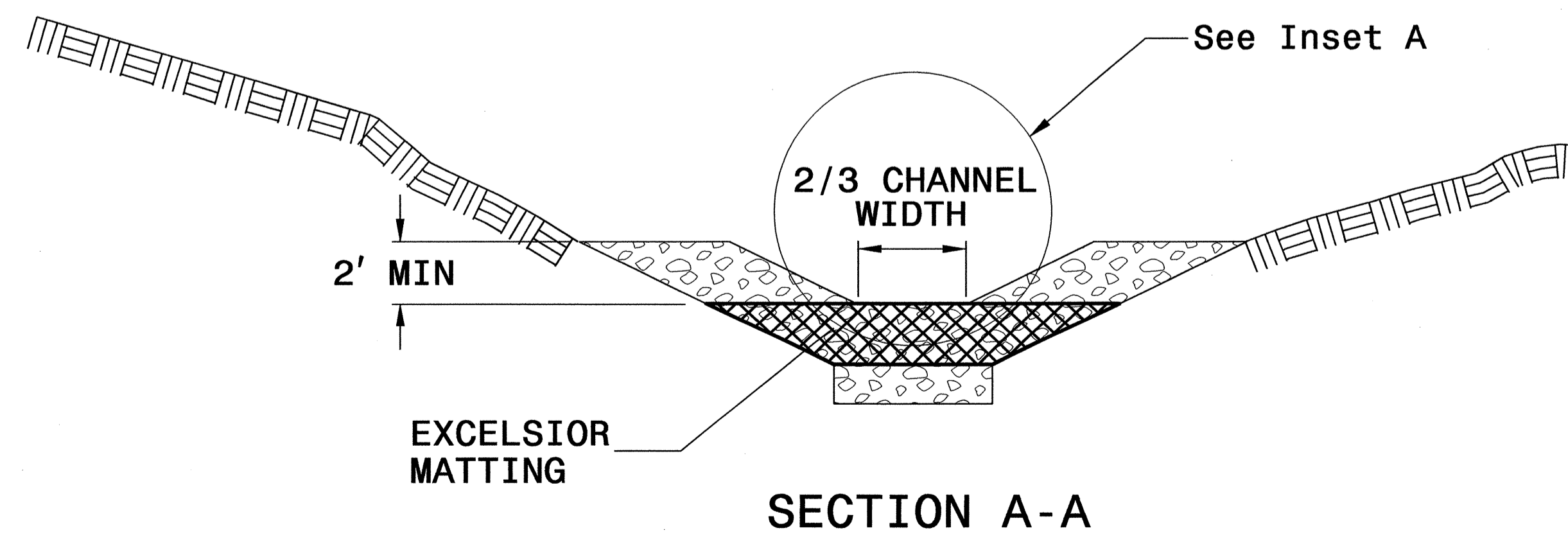
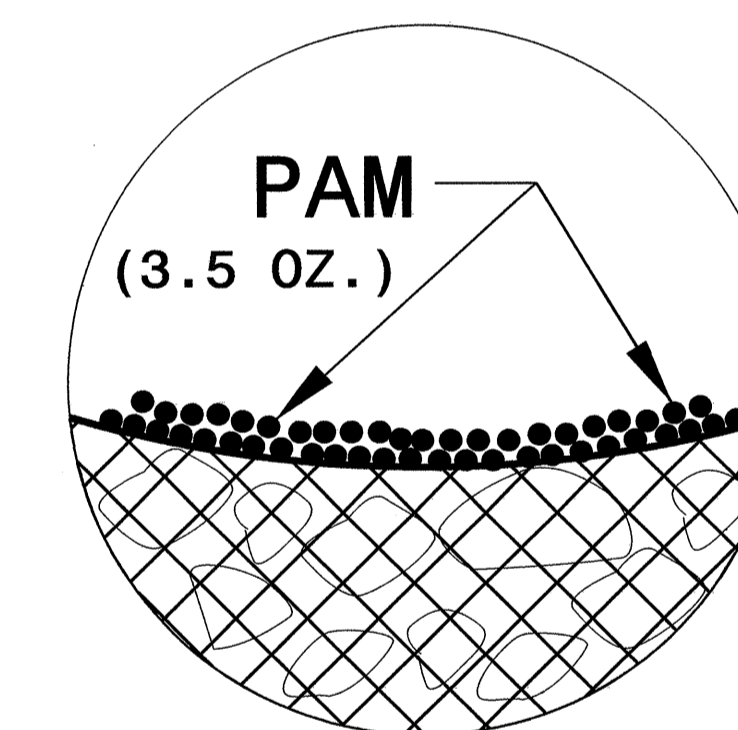


NOTES

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



NOT TO SCALE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. <i>R-3432</i>	SHEET NO. <i>EC-3A</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. R-3432		SHEET NO. EC-4/CONST.4	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

-Y10-
 PI Sta 18+73.55
 $\Delta = 3^{\circ} 57' 55.9" (RT)$
 $D = 1^{\circ} 08' 45.3"$
 $L = 346.06'$
 $T = 173.10'$
 $R = 5,000.00'$
 $SE = .04$
 $RO = 108'$

STA.13+07.00 -L-
 BEGIN STATE PROJECT R-3432

100 x 20 x 3
 12 ft. weir
 (See Infiltration Basin Detail)
 ID 4.1 ICG

PUE TO BE DEEDED TO BRUNSWICK EMC

58 x 14 x 3
 6 ft. weir
 (See Infiltration Basin Detail)
 ID 4.2 IF

PUE TO BE DEEDED TO BRUNSWICK EMC

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 4

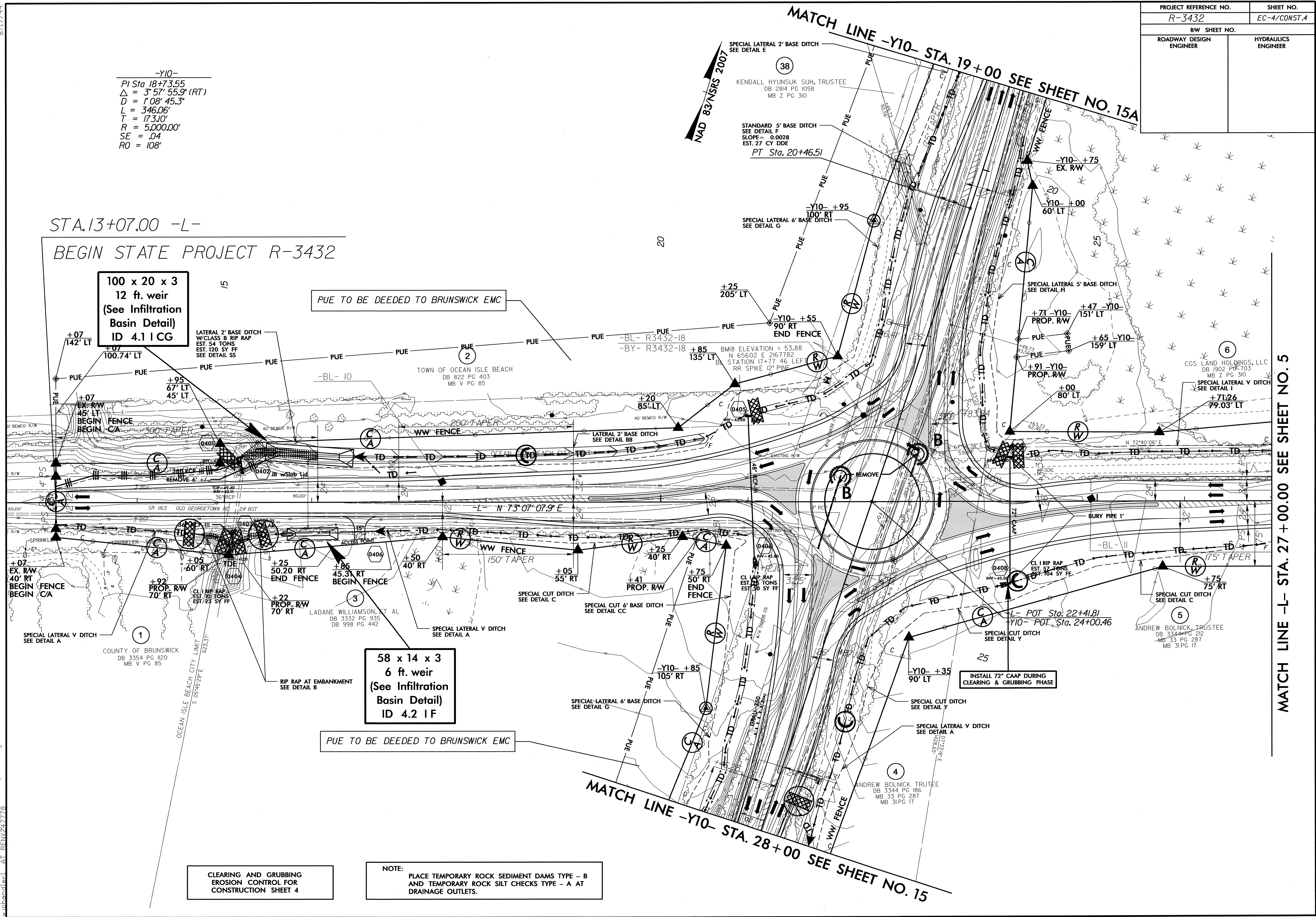
NOTE:
 PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
 AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
 DRAINAGE OUTLETS.

MATCH LINE -Y10- STA. 28+00 SEE SHEET NO. 15

MATCH LINE -Y10- STA. 19+00 SEE SHEET NO. 15A

MATCH LINE -L- STA. 27+00.00 SEE SHEET NO. 5

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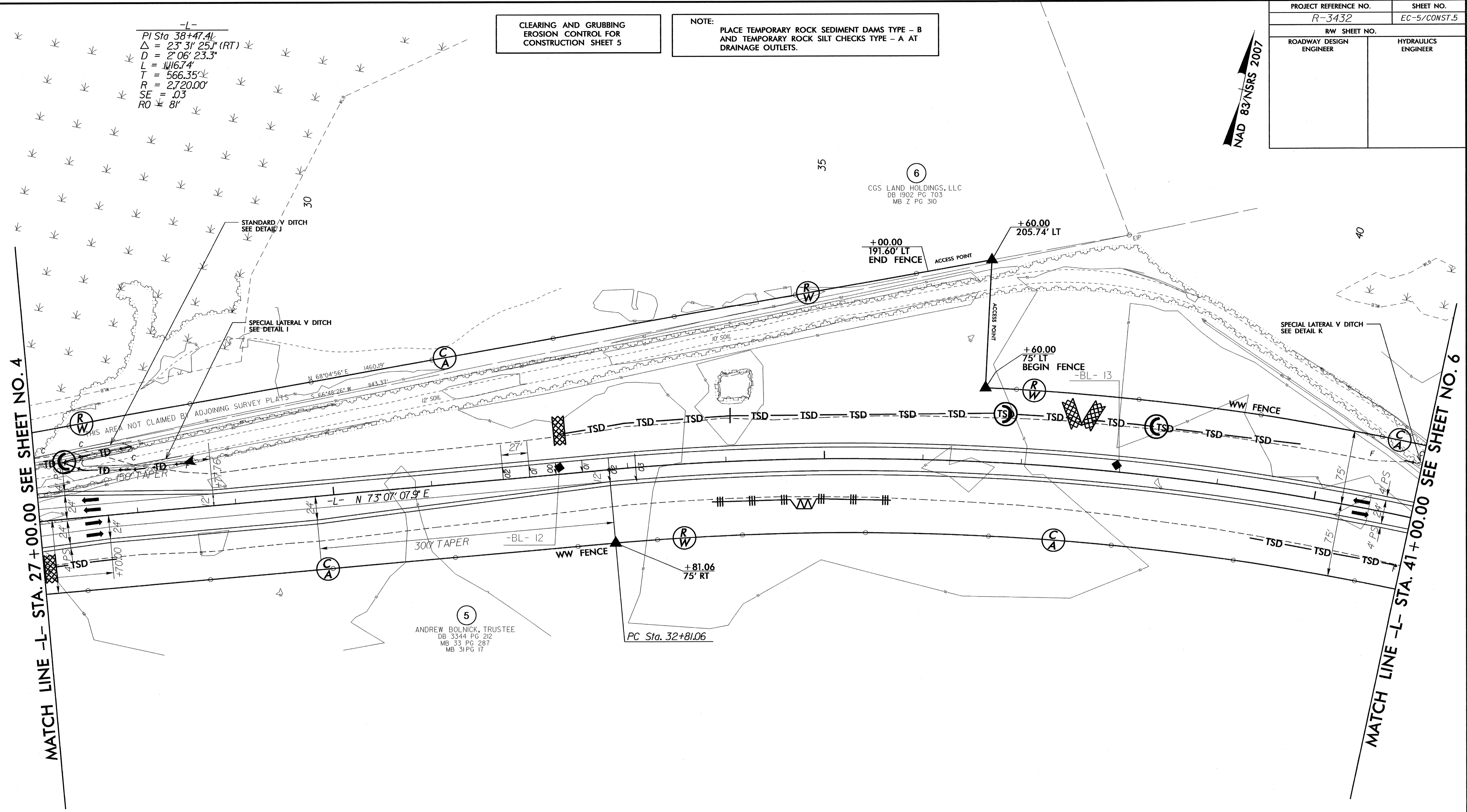
-L-
 PI Sta 38+47.41
 $\Delta = 23^\circ 31' 25.1''$ (RT)
 $D = 2^\circ 06' 23.3''$
 $L = 116.74'$
 $T = 566.35'$
 $R = 2,720.00'$
 $SE = .03$
 $RO = 81''$

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 5

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

PROJECT REFERENCE NO. R-3432		SHEET NO. EC-5/CONST.5	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

NAD 83/NRS 2007



MATCH LINE -L- STA. 27+00.00 SEE SHEET NO. 4

MATCH LINE -L- STA. 41+00.00 SEE SHEET NO. 6

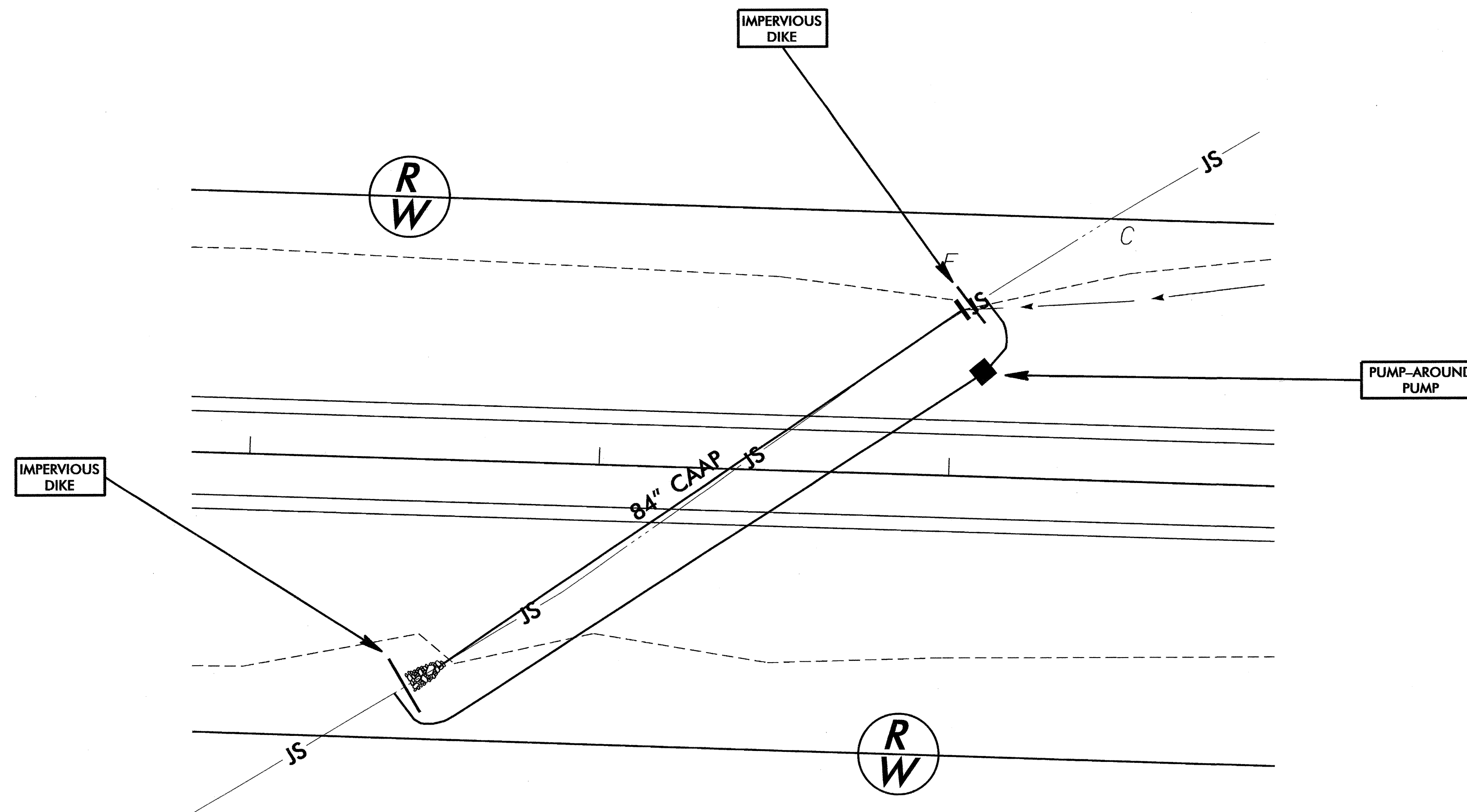
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FOR -L- PROFILE SEE SHEET 16

PROJECT REFERENCE NO.	SHEET NO.
R-3432	EC-7/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PIPE INSTALLATION SEQUENCE STA. 48+37 -L-

1. UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED THROUGHOUT PIPE INSTALLATION.
2. CONSTRUCT IMPERVIOUS DIKES AND INSTALL PUMP-AROUND PUMP, DIVERTING FLOW AROUND WORK AREA.
3. INSTALL PROPOSED 84" CAAP AND CONSTRUCT ANY NECESSARY CHANNEL IMPROVEMENTS.
4. REMOVE IMPERVIOUS DIKES AND PUMP-AROUND PUMP.
5. REMOVE ANY REMAINING SPECIAL STILLING BASIN(S).
6. COMPLETE ROADWAY.



8/17/99

PROJECT REFERENCE NO. R-3432	SHEET NO. EC-8/CONST.7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7

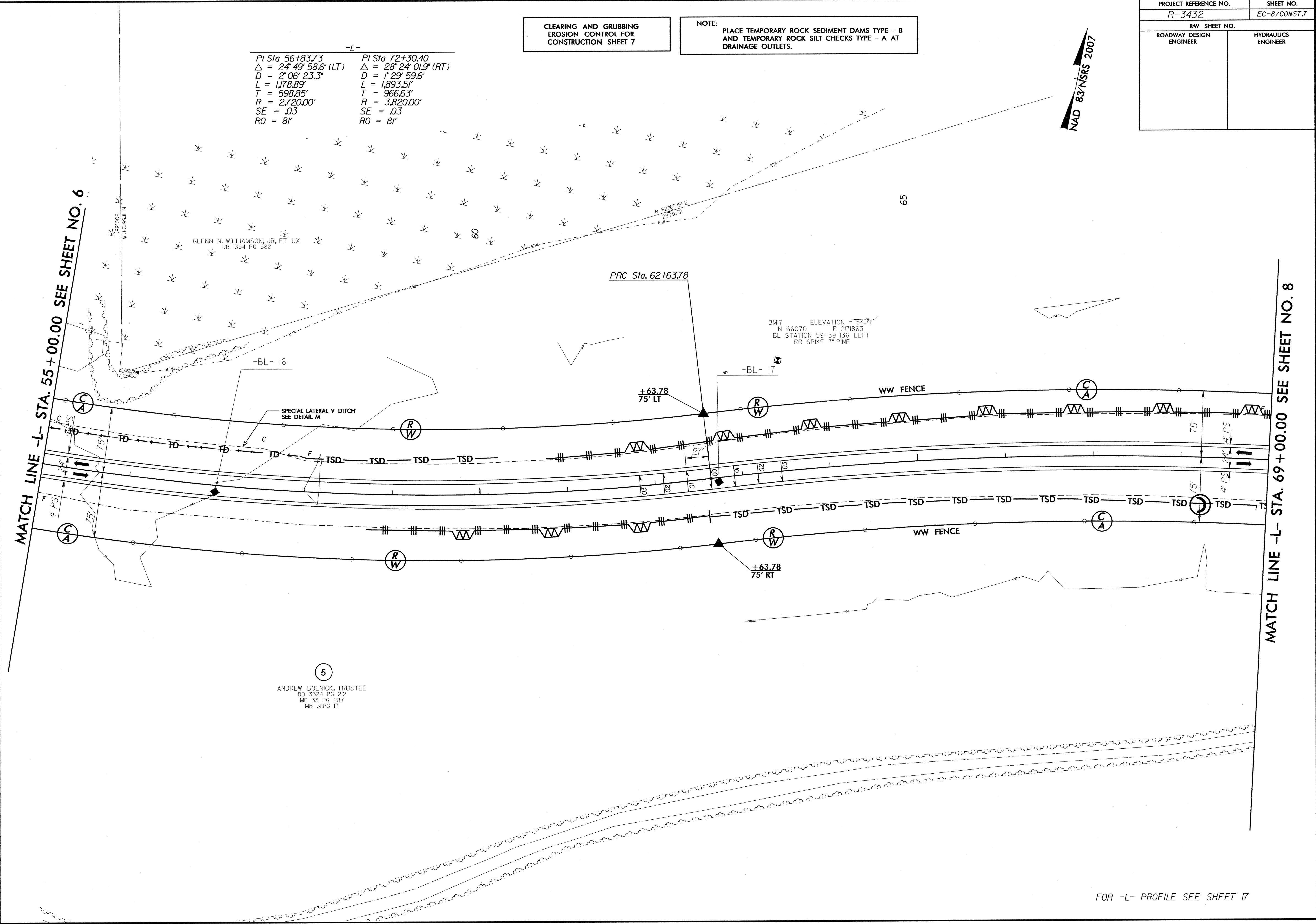
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

-L-
PI Sta 56+83.73 PI Sta 72+30.40
Δ = 24° 49' 58.6" (LT) Δ = 28° 24' 01.9" (RT)
D = 2' 06" 23.3" D = 1' 29" 59.6"
L = 1,178.89' L = 1,893.51'
T = 598.85' T = 966.63'
R = 2,720.00' R = 3,820.00'
SE = .03 SE = .03
RO = 81' RO = 81'

NAD 83/NSRS 2007

MATCH LINE -L- STA. 55 + 00.00 SEE SHEET NO. 6

MATCH LINE -L- STA. 69 + 00.00 SEE SHEET NO. 8



GLENN N. WILLIAMSON, JR., ET UX
DB 1364 PG 682

BMI7 ELEVATION = 54.71
N 66070 E 2171863
BL STATION 59+39.136 LEFT
RR SPIKE 7" PINE

5
ANDREW BOLNICK, TRUSTEE
DB 3324 PG 212
MB 33 PG 287
MB 31 PG 17

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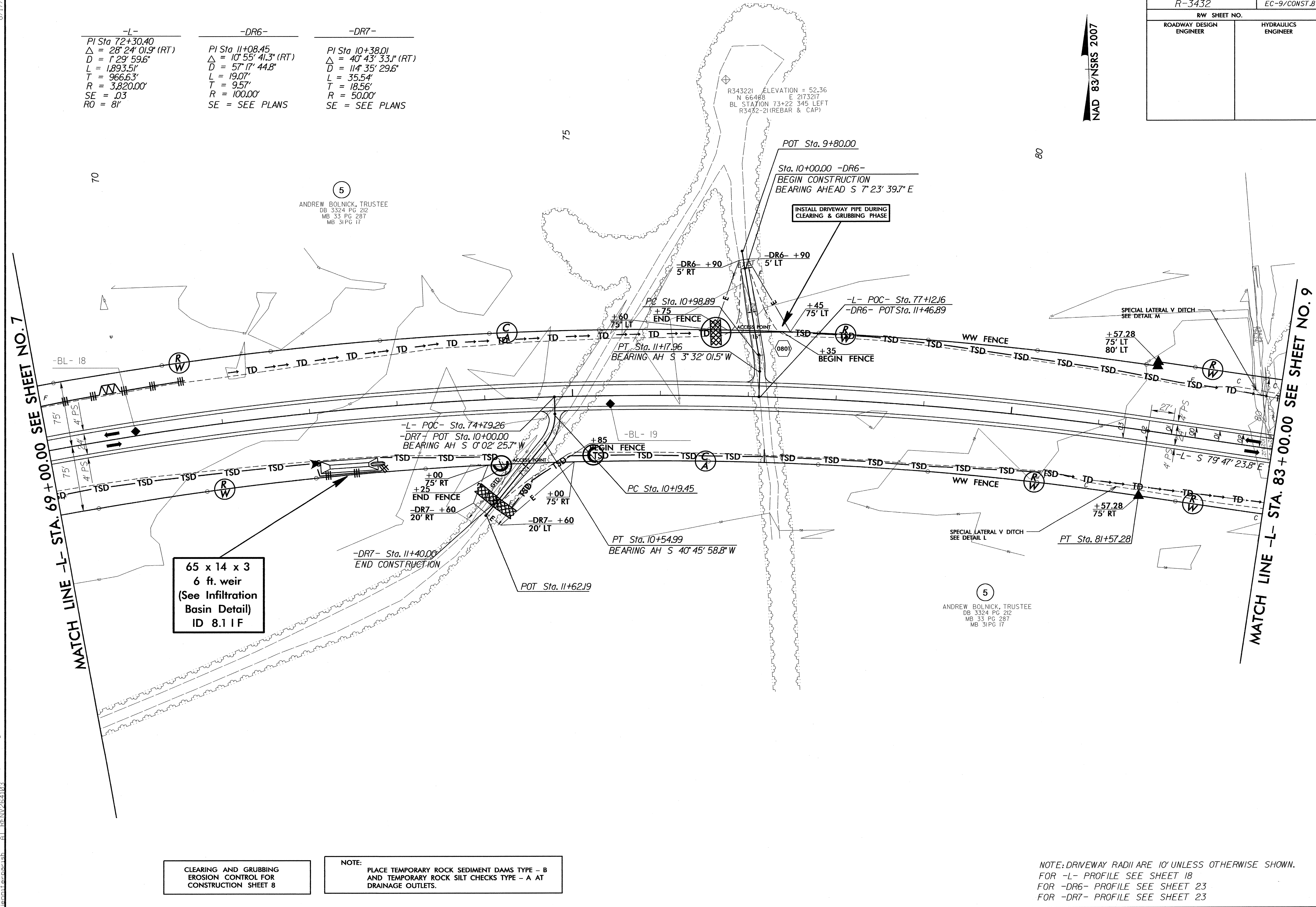
FOR -L- PROFILE SEE SHEET 17

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PROJECT REFERENCE NO. R-3432	SHEET NO. EC-9/CONST.8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NSRS 2007

-L-	-DR6-	-DR7-
PI Sta 72+30.40	PI Sta 11+08.45	PI Sta 10+38.01
$\Delta = 28^\circ 24' 01.9''$ (RT)	$\Delta = 10^\circ 55' 41.3''$ (RT)	$\Delta = 40^\circ 43' 33.1''$ (RT)
D = 1,893.51'	D = 57' 17" 44.8"	D = 114' 35" 29.6"
L = 966.63'	L = 19.07'	L = 35.54'
T = 3,820.00'	T = 9.57'	T = 18.56'
SE = .03	R = 100.00'	R = 50.00'
RO = 81'	SE = SEE PLANS	SE = SEE PLANS



65 x 14 x 3
 6 ft. weir
 (See Infiltration
 Basin Detail)
 ID 8.1 IF

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.

NOTE: DRIVEWAY RADII ARE 10' UNLESS OTHERWISE SHOWN.
 FOR -L- PROFILE SEE SHEET 18
 FOR -DR6- PROFILE SEE SHEET 23
 FOR -DR7- PROFILE SEE SHEET 23

8/17/99

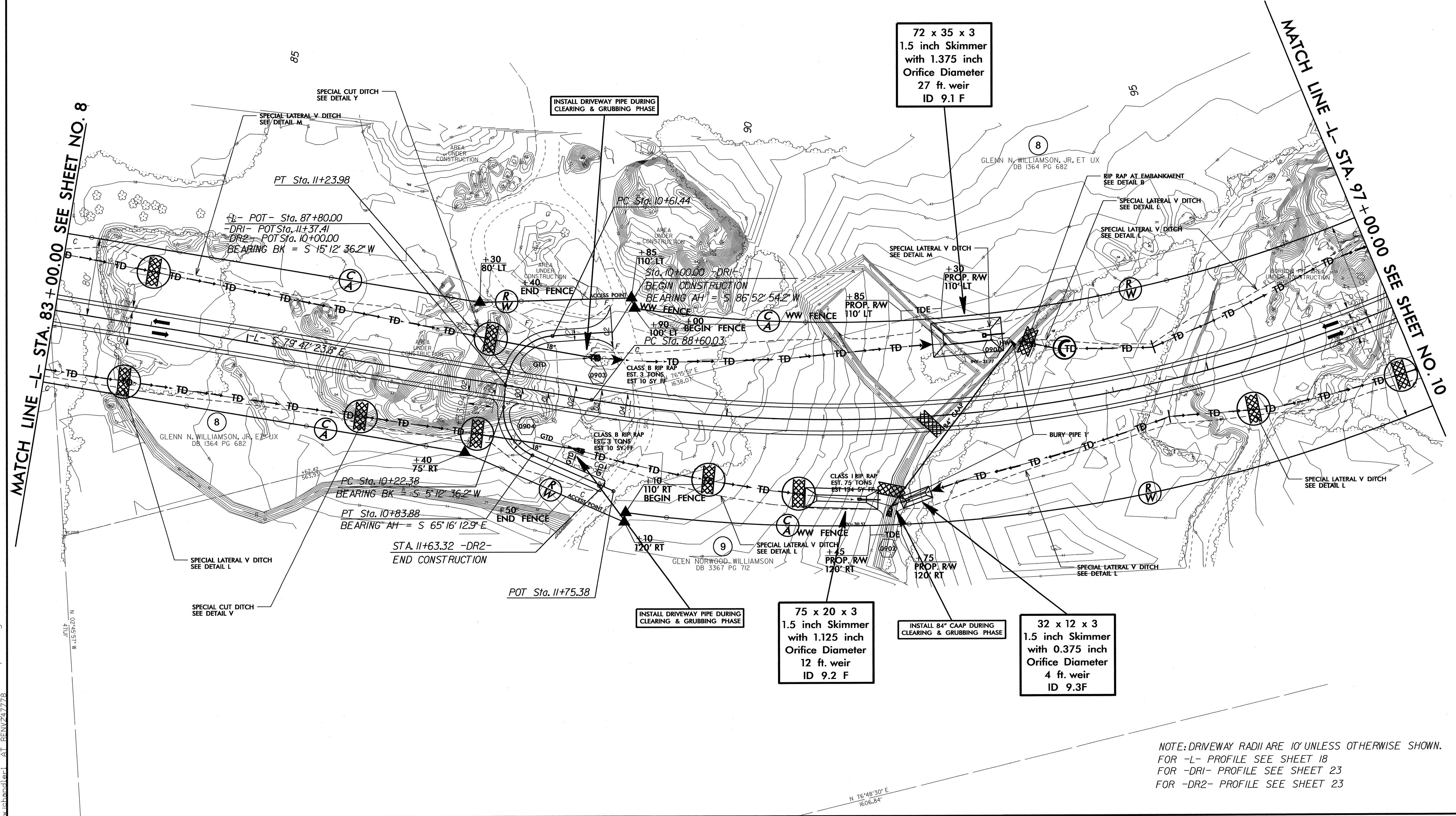
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 9

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

PROJECT REFERENCE NO. R-3432		SHEET NO. EC-10/CONST.9	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

NAD 83/NSRS 2007

-L-	-DRI-	-DR2-
PI Sta 97+39.71	PI Sta 10+97.55	PI Sta 10+57.70
$\Delta = 60^{\circ} 46' 46.1''$ (LT)	$\Delta = 71^{\circ} 40' 18.0''$ (LT)	$\Delta = 70^{\circ} 28' 49.1''$ (LT)
D = 3' 49' 11.0"	D = 114' 35' 29.6"	D = 114' 35' 29.6"
L = 1,591.20'	L = 62.55'	L = 61.51'
T = 879.68'	T = 36.11'	T = 35.32'
R = 1,500.00'	R = 50.00'	R = 50.00'
SE = .04	SE = SEE PLANS	SE = SEE PLANS
RO = 108'		



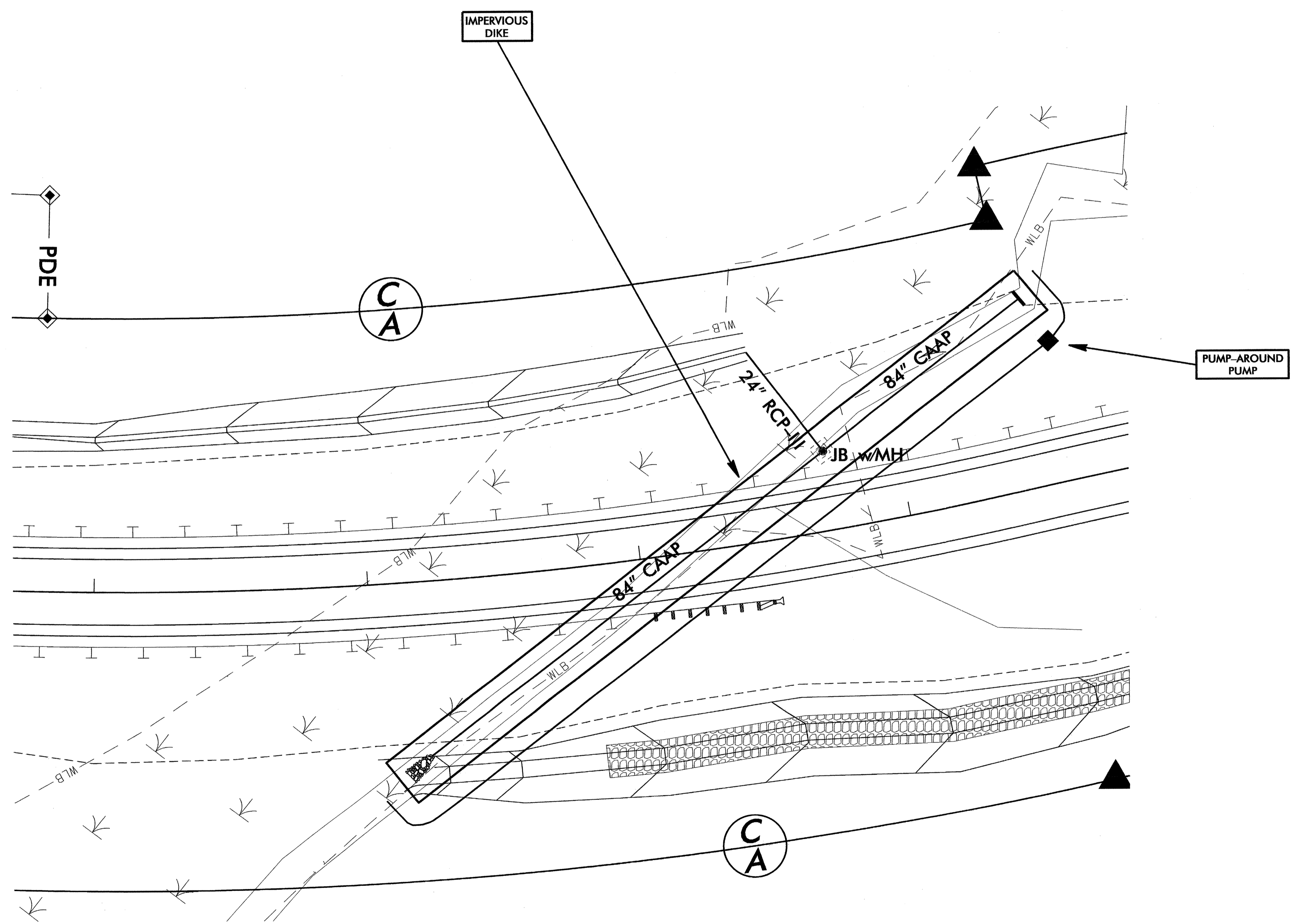
SEP-2013 06:54
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REVISED BY: [unreadable]

NOTE: DRIVEWAY RADII ARE 10' UNLESS OTHERWISE SHOWN.
FOR -L- PROFILE SEE SHEET 18
FOR -DRI- PROFILE SEE SHEET 23
FOR -DR2- PROFILE SEE SHEET 23

PROJECT REFERENCE NO. R-3432	SHEET NO. EC-12/CONST.10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PIPE INSTALLATION SEQUENCE STA. 103+20 -L-

1. UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED THROUGHOUT PIPE INSTALLATION.
2. CONSTRUCT IMPERVIOUS DIKE(S) AND INSTALL PUMP-AROUND PUMP, DIVERTING FLOW AROUND WORK AREA.
3. INSTALL PROPOSED 84" CAAP AND CONSTRUCT ANY NECESSARY CHANNEL IMPROVEMENTS.
4. REMOVE IMPERVIOUS DIKE(S) AND PUMP-AROUND PUMP.
5. REMOVE ANY REMAINING SPECIAL STILLING BASIN(S).
6. COMPLETE ROADWAY.



MAD 8/15/07

PROJECT REFERENCE NO.	SHEET NO.
R-3432	EC-14/CONST.12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 12

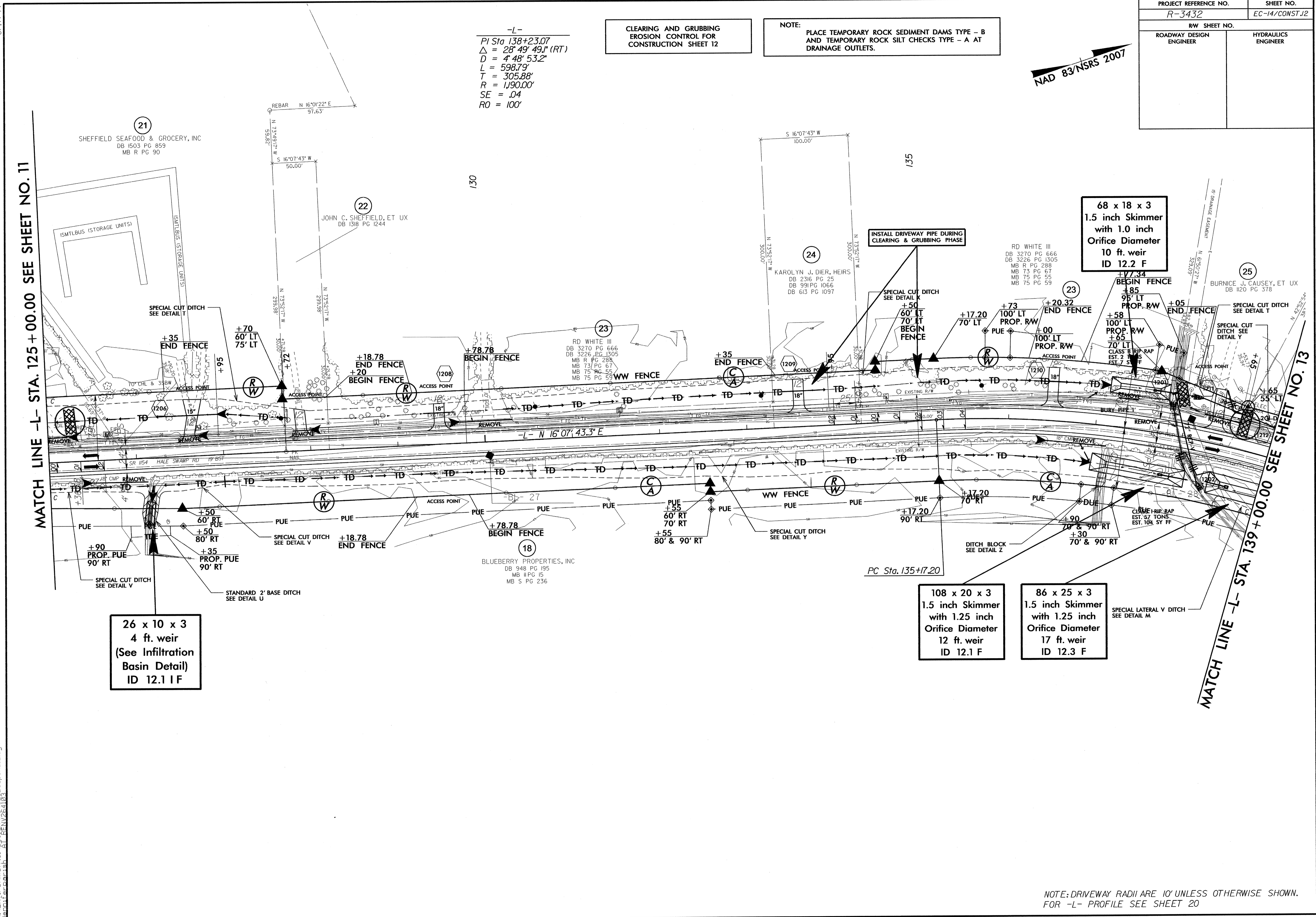
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

NAD 83/NSRS 2007

-L-
PI Sta 138+23.07
 $\Delta = 28^{\circ} 49' 49.1''$ (RT)
D = 4' 48" 53.2"
L = 598.79'
T = 305.88'
R = 1,190.00'
SE = .04
RO = 100'

MATCH LINE -L- STA. 125 + 00.00 SEE SHEET NO. 11

MATCH LINE -L- STA. 139 + 00.00 SEE SHEET NO. 13



26 x 10 x 3
4 ft. weir
(See Infiltration
Basin Detail)
ID 12.1 F

108 x 20 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
12 ft. weir
ID 12.1 F

86 x 25 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
17 ft. weir
ID 12.3 F

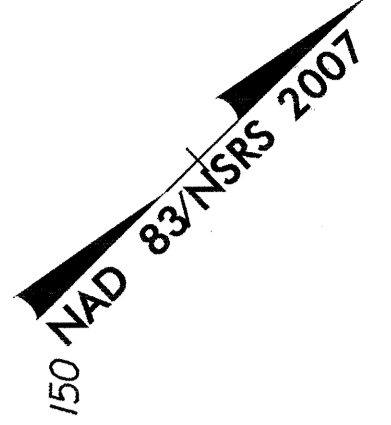
68 x 18 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
10 ft. weir
ID 12.2 F

NOTE: DRIVEWAY RADII ARE 10' UNLESS OTHERWISE SHOWN.
FOR -L- PROFILE SEE SHEET 20

8/17/99

10-SEP-2013 15:12
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PROJECT REFERENCE NO. R-3432		SHEET NO. EC-15/CONST 13	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER			



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 13

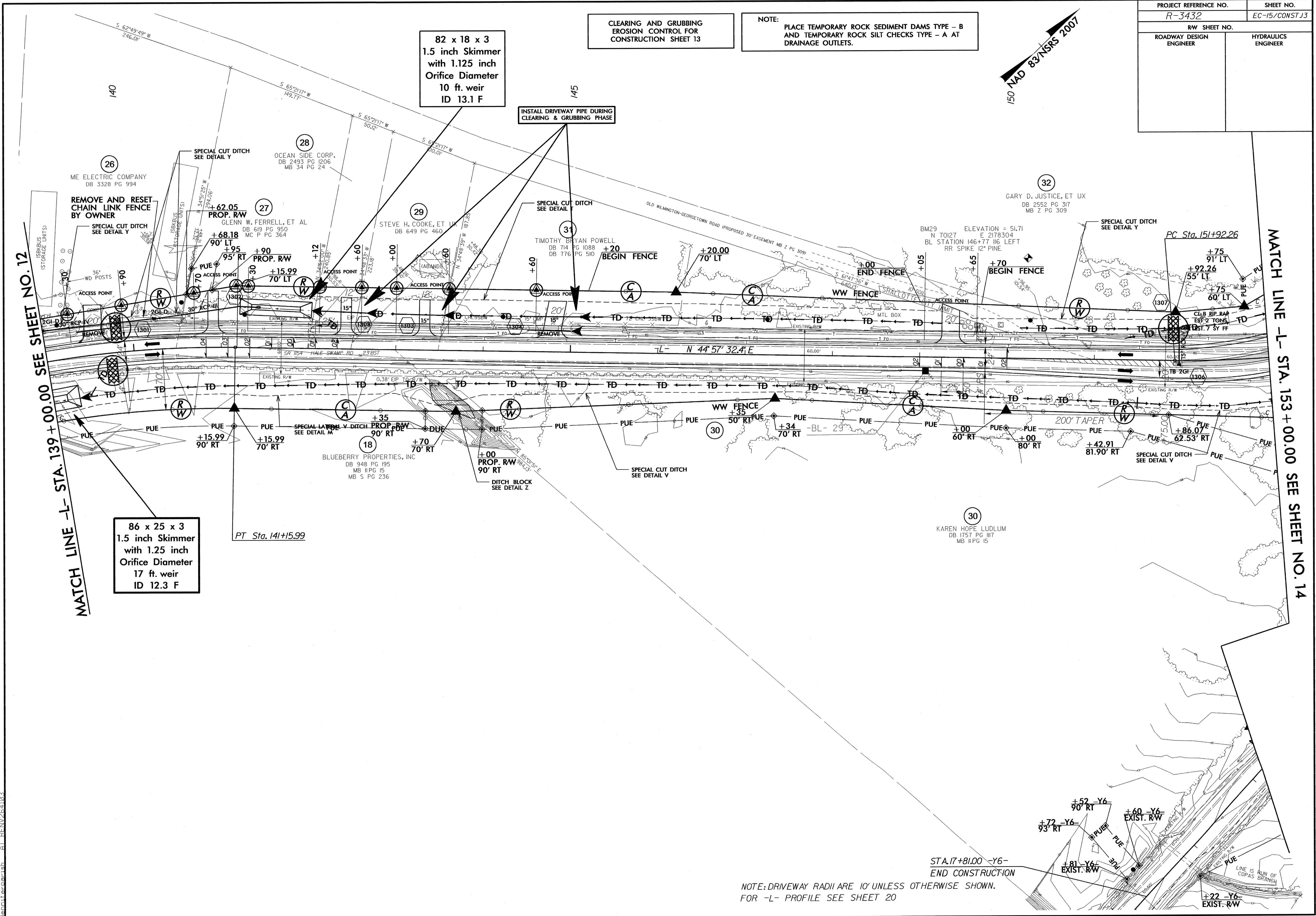
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

82 x 18 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
10 ft. weir
ID 13.1 F

86 x 25 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
17 ft. weir
ID 12.3 F

MATCH LINE -L- STA. 139 + 00.00 SEE SHEET NO. 12

MATCH LINE -L- STA. 153 + 00.00 SEE SHEET NO. 14



NOTE: DRIVEWAY RADII ARE 10' UNLESS OTHERWISE SHOWN.
FOR -L- PROFILE SEE SHEET 20

8/17/99
10-SEP-2015 15:15
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CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 14

PROJECT REFERENCE NO. R-3432		SHEET NO. EC-16/CONST.14	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

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

32 x 15 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
7 ft. weir
ID 14.3 F

Modified Silt Basin
Type 'B'
82 x 20 x 3
4 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 14.2 F

60 x 10 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
4 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 14.1 F

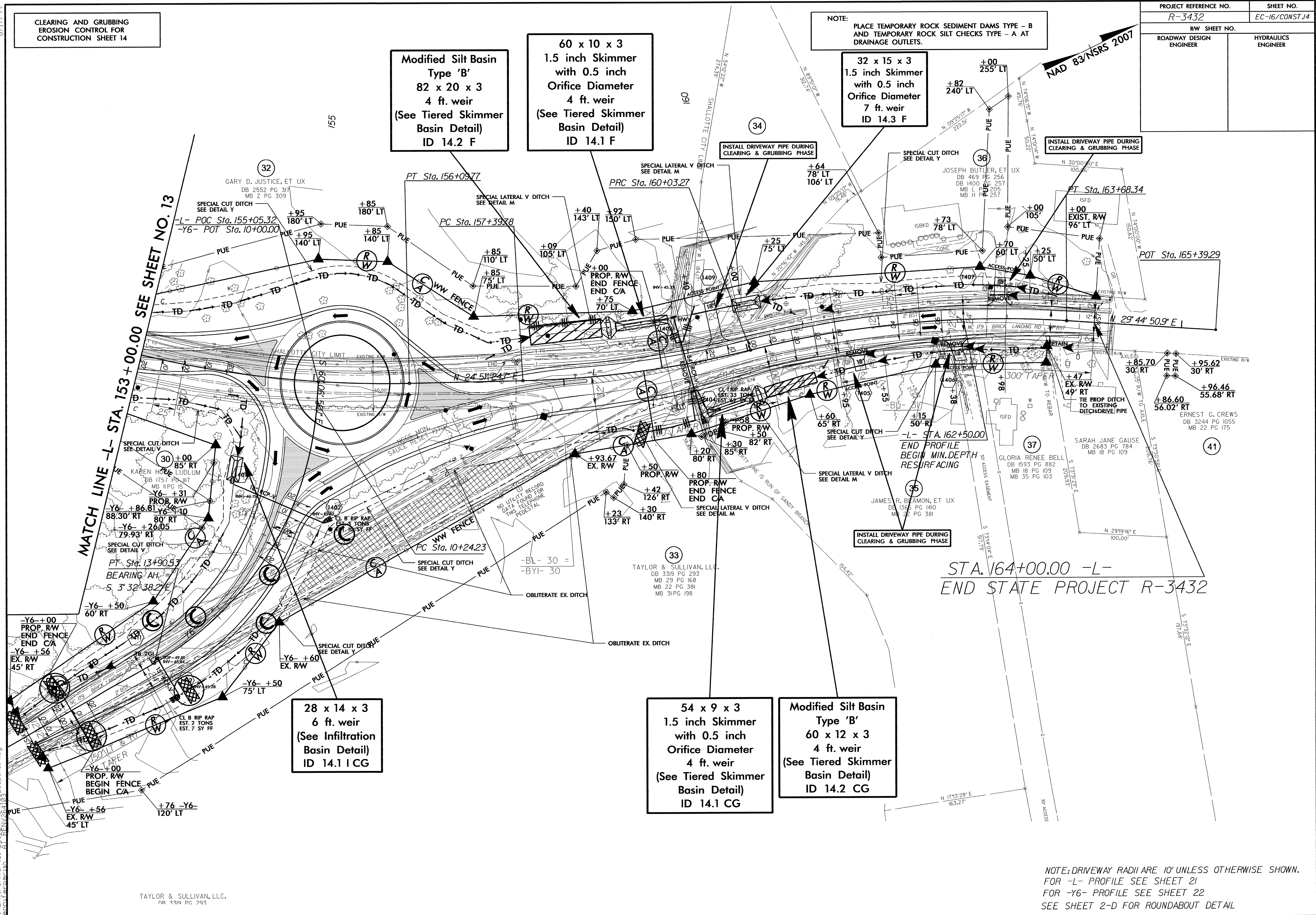
INSTALL DRIVEWAY PIPE DURING
CLEARING & GRUBBING PHASE

INSTALL DRIVEWAY PIPE DURING
CLEARING & GRUBBING PHASE

INSTALL DRIVEWAY PIPE DURING
CLEARING & GRUBBING PHASE

MATCH LINE -L- STA. 153+00.00 SEE SHEET NO. 13

STA. 164+00.00 -L-
END STATE PROJECT R-3432



TAYLOR & SULLIVAN, LLC.
DB 3319 PG 293
MB 22 PG 381
MB 31 PG 198

NOTE: DRIVEWAY RADII ARE 10' UNLESS OTHERWISE SHOWN.
FOR -L- PROFILE SEE SHEET 21
FOR -Y6- PROFILE SEE SHEET 22
SEE SHEET 2-D FOR ROUNDABOUT DETAIL

8/17/99
10-SEP-2003 15:18
R:\env\environmental\01\Drawings\14\EC-16\14.dgn

8/17/99

PROJECT REFERENCE NO.		SHEET NO.	
R-3432		EC-17/CONST.15	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

NAD 83/NSRS 2007

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 15

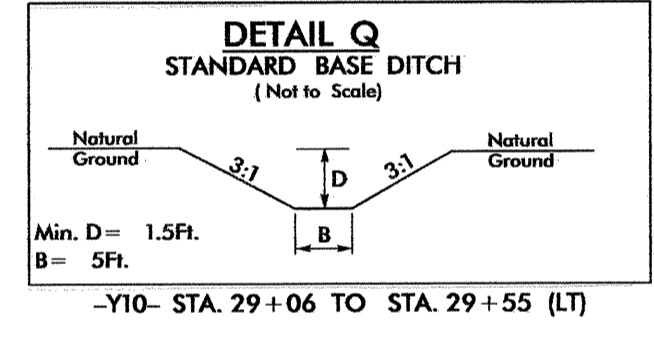
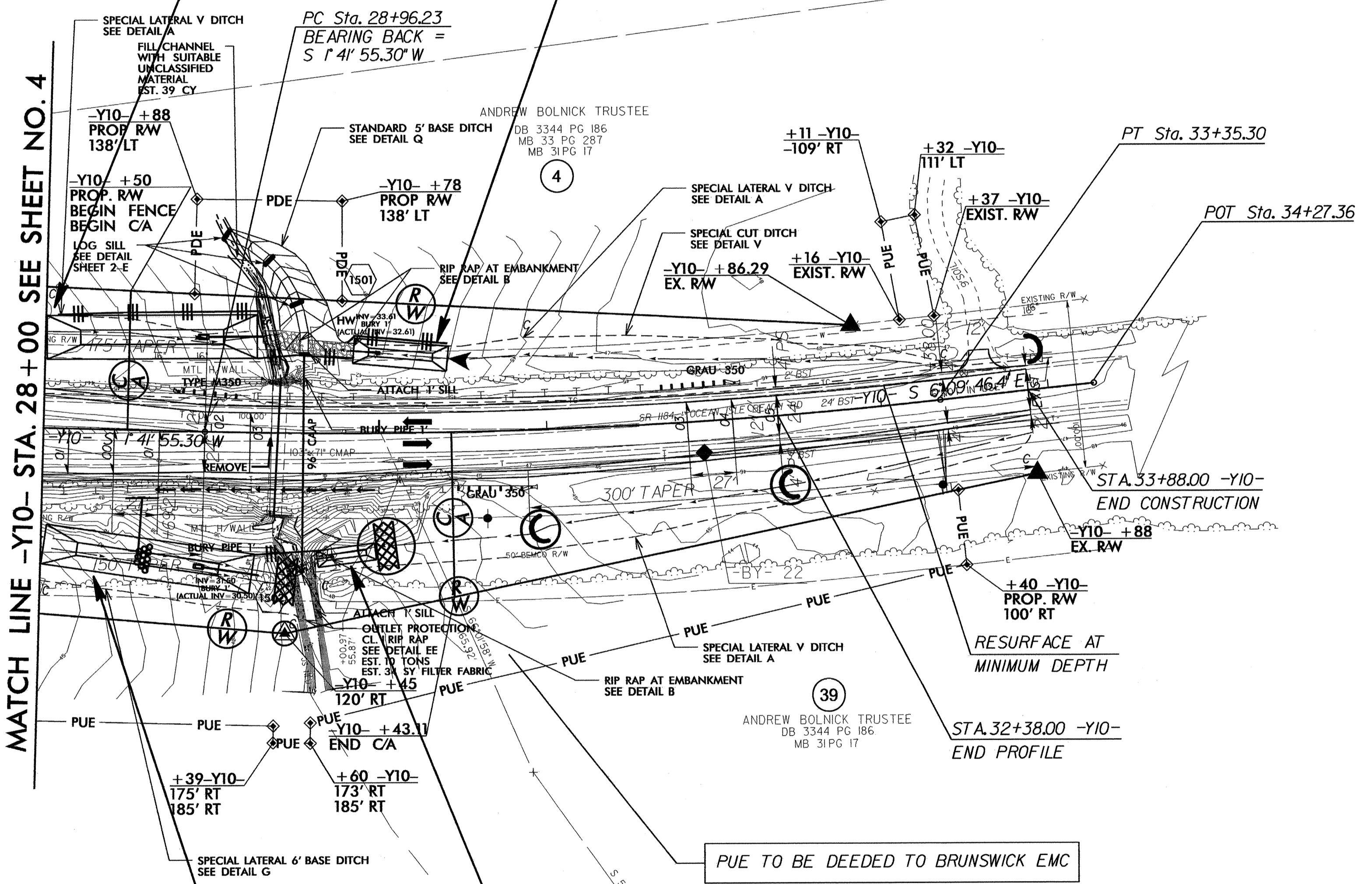
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

-Y10-
PI Sta. 31+16.11
 $\Delta = 7' 51" 41.7" (LT)$
 $D = 1' 47" 25.8"$
 $L = 439.07'$
 $T = 219.88'$
 $R = 3,200.00'$
 $SE = .03$
 $RO = 81'$

125 x 26 x 3
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
18 ft. weir
ID 15.3 F

56 x 15 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
7 ft. weir
ID 15.1 F

MATCH LINE -Y10- STA. 28+00 SEE SHEET NO. 4



125 x 24 x 3
1.5 inch Skimmer
with 1.5 inch
Orifice Diameter
16 ft. weir
ID 15.4 F

35 x 10 x 3
1.5 inch Skimmer
with 0.375 inch
Orifice Diameter
4 ft. weir
ID 15.2 F

PUE TO BE DEEDED TO BRUNSWICK EMC

FOR -Y10- PROFILE SEE SHEET 21A

10-SEP-2013 15:24
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amf:parish

PROJECT REFERENCE NO. <i>R-3432</i>	SHEET NO. <i>EC-18/CONST.15</i>
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

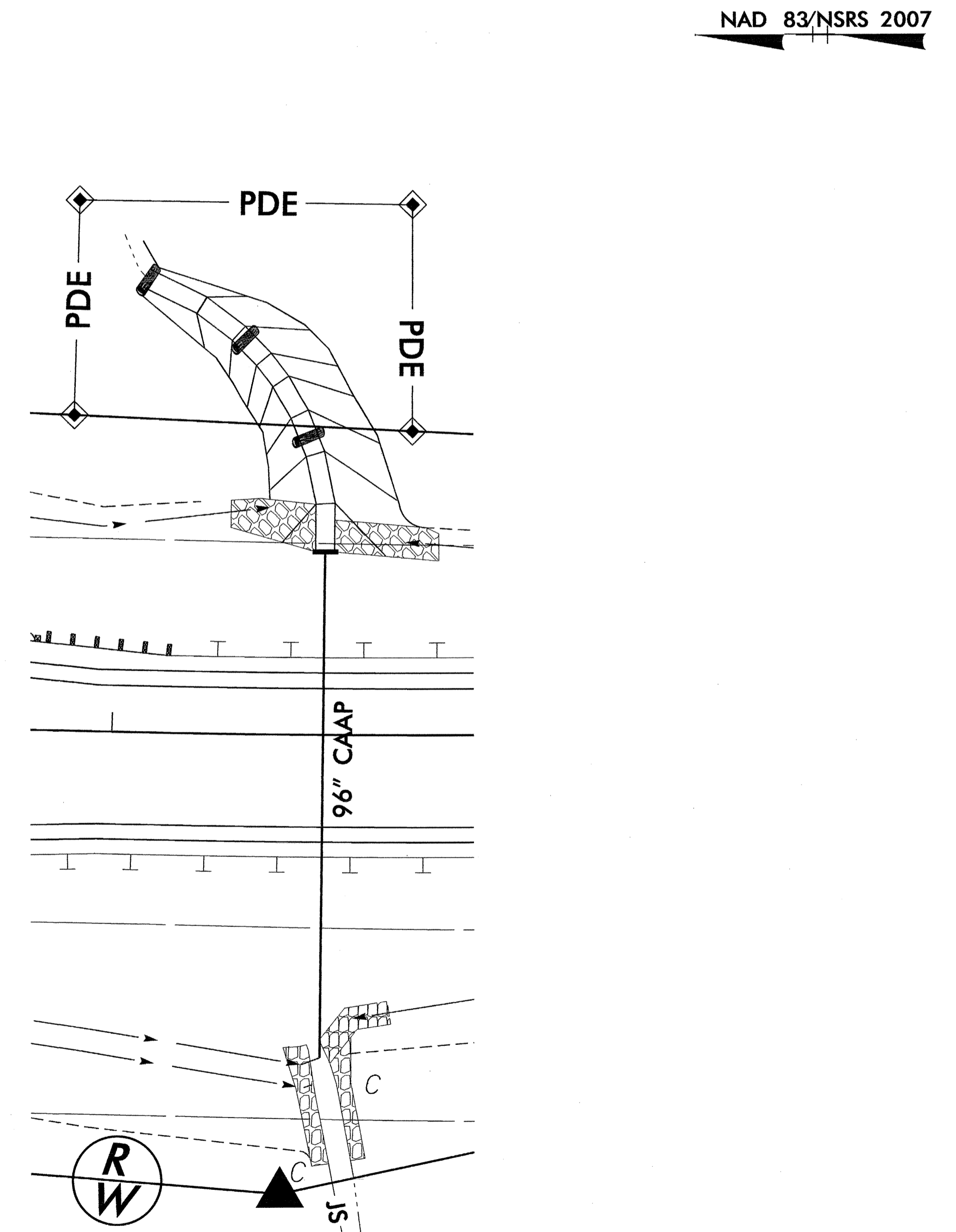
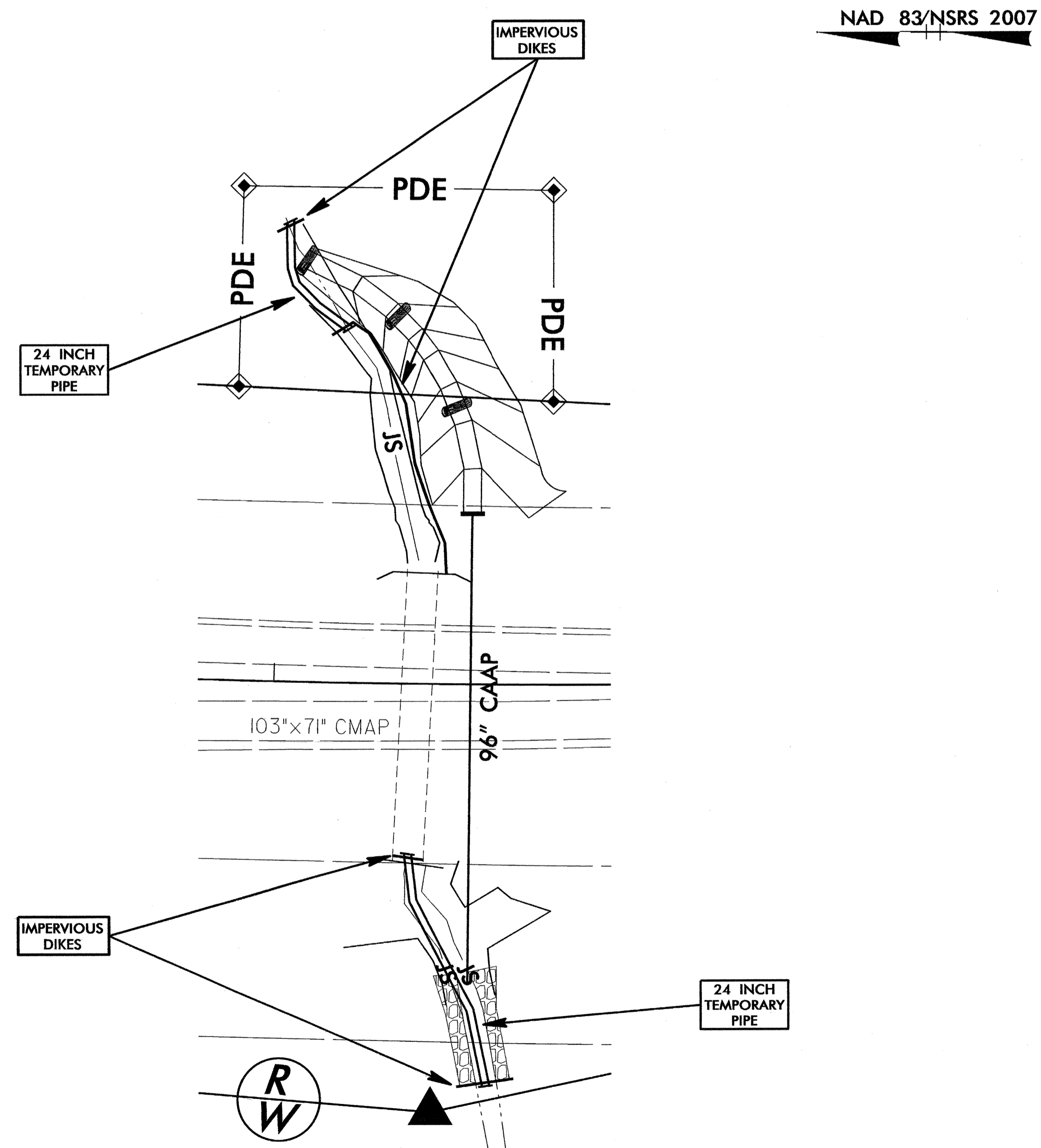
PIPE INSTALLTION SEQUENCE STA. 29+55 -Y10-

PHASE I

1. UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED THROUGHOUT PIPE INSTALLATION.
2. CONSTRUCT IMPERVIOUS DIKES AND INSTALL 24" TEMPORARY PIPES, DIVERTING FLOW.
3. INSTALL PROPOSED 96" CAAP.
4. CONSTRUCT ANY NECESSARY UPSTREAM/DOWNSTREAM CHANNEL IMPROVEMENTS.

PHASE II

5. REMOVE IMPERVIOUS DIKES AND 24" TEMPORARY PIPES, ALLOWING NORMAL FLOW THROUGH PROPOSED CAAP.
6. REMOVE EXISTING CMAP.
7. REMOVE ANY REMAINING SPECIAL STILLING BASIN(S).
8. COMPLETE ROADWAY.



8/17/99

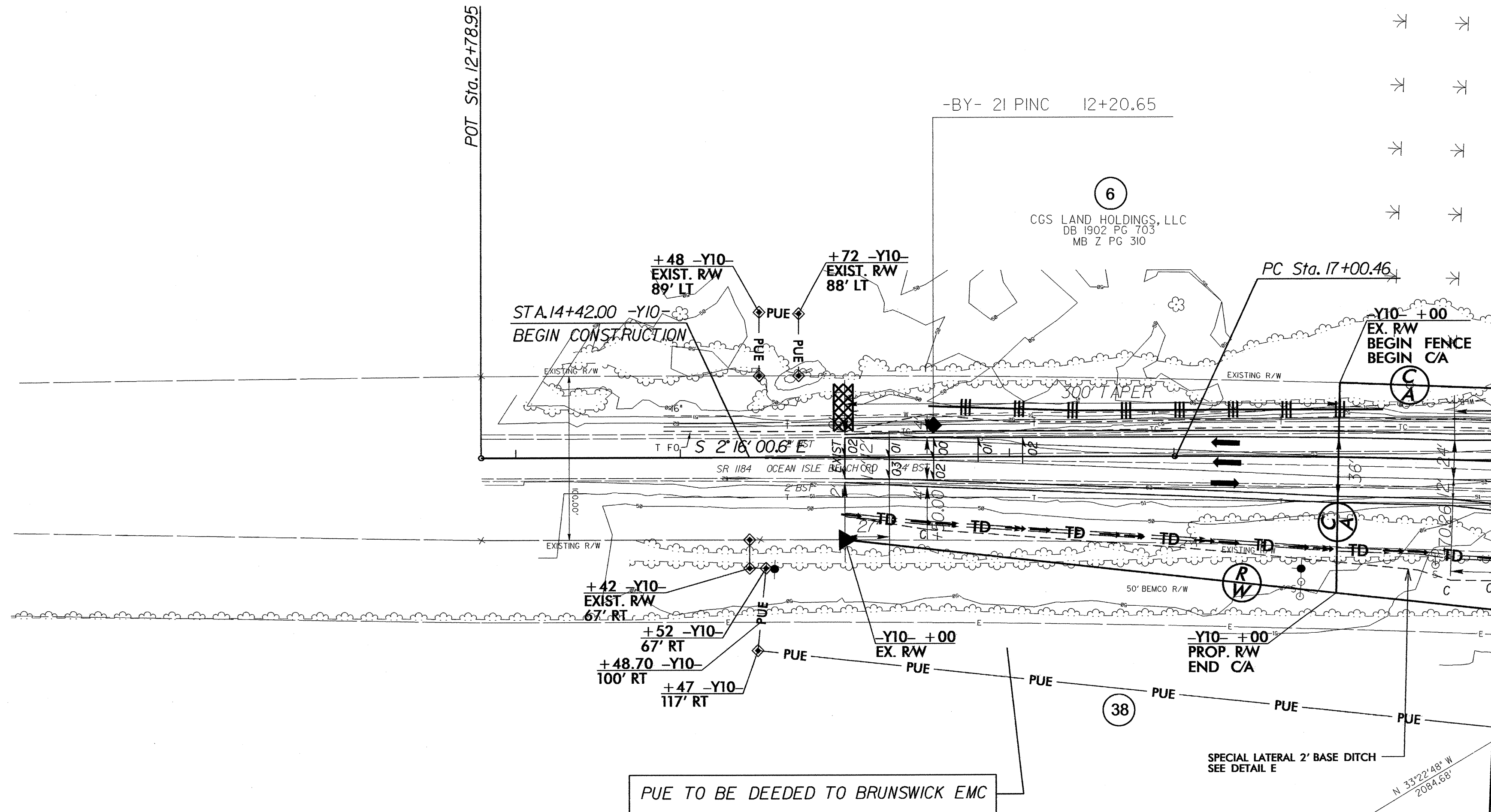
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 15A

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

-Y10-
PI Sta 18+73.55
 $\Delta = 3^{\circ} 57' 55.9" (RT)$
 $D = 1^{\circ} 08' 45.3"$
 $L = 346.06'$
 $T = 173.10'$
 $R = 5,000.00'$
 $SE = .04$
 $RO = 108'$

NAD 83/NSRS 2007

PROJECT REFERENCE NO. R-3432	SHEET NO. EC-19/CONST.15A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



PUE TO BE DEEDED TO BRUNSWICK EMC

MATCH LINE -Y10- STA. 19+00 SEE SHEET NO. 4

FOR -Y10- PROFILE SEE SHEET 21A

19-SEP-2013 15:26
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15a.dgn

PROJECT REFERENCE NO. R-3432	SHEET NO. EC-20/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-Y10-
 PI Sta 18+73.55
 $\Delta = 3^{\circ} 57' 55.9" (RT)$
 $D = 1^{\circ} 08' 45.3"$
 $L = 346.06'$
 $T = 173.10'$
 $R = 5,000.00'$
 $SE = .04$
 $RO = 108'$

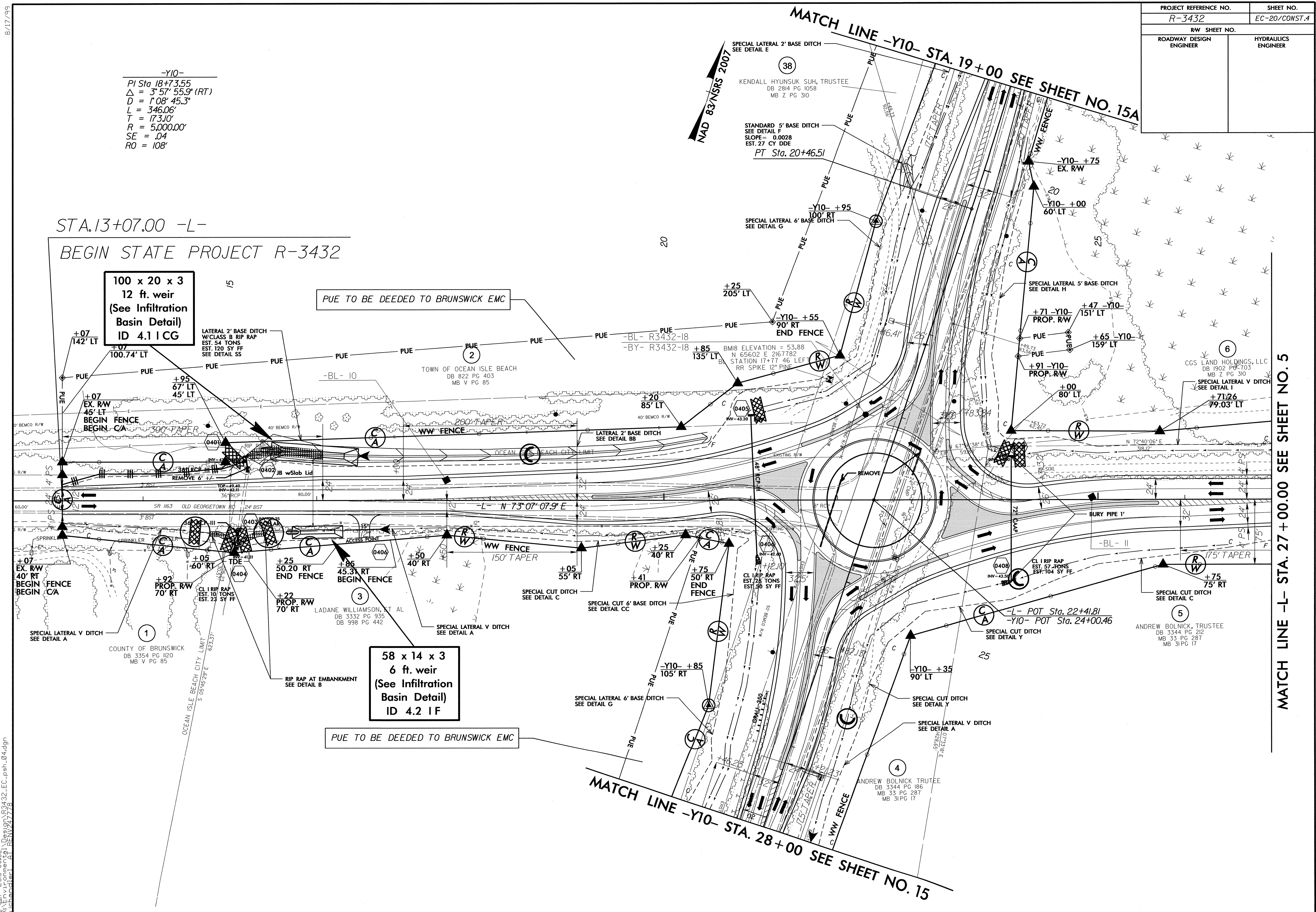
STA.13+07.00 -L-
 BEGIN STATE PROJECT R-3432

100 x 20 x 3
 12 ft. weir
 (See Infiltration Basin Detail)
 ID 4.1 ICG

PUE TO BE DEEDED TO BRUNSWICK EMC

58 x 14 x 3
 6 ft. weir
 (See Infiltration Basin Detail)
 ID 4.2 IF

PUE TO BE DEEDED TO BRUNSWICK EMC



MATCH LINE -L- STA. 27+00.00 SEE SHEET NO. 5

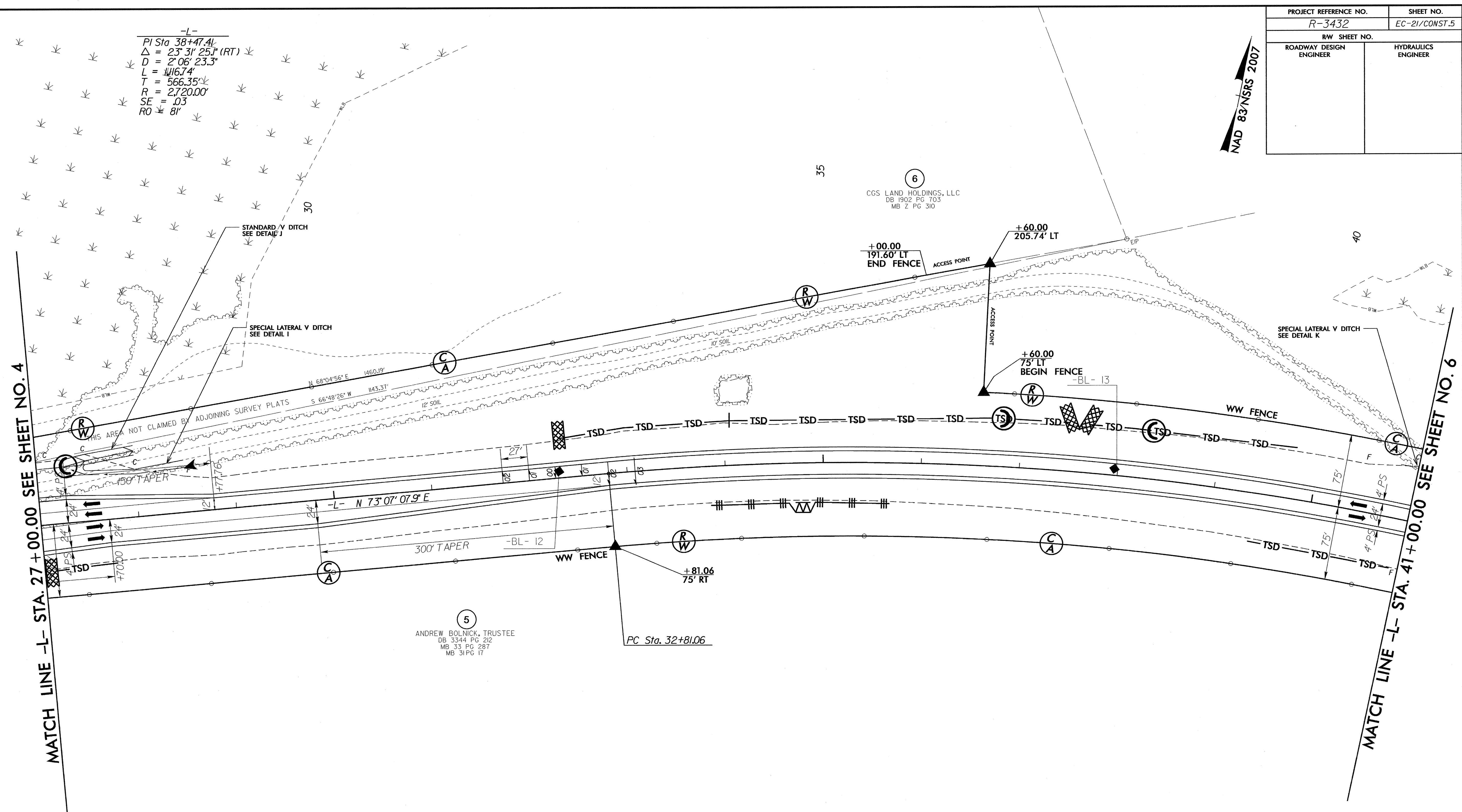
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8/17/09

-L-
 PI Sta. 38+47.41
 $\Delta = 23^\circ 31' 25.1''$ (RT)
 $D = 2' 06.233''$
 $L = 116.74'$
 $T = 566.35'$
 $R = 2,720.00'$
 $SE = .03$
 $RO = 8'$

PROJECT REFERENCE NO. R-3432	SHEET NO. EC-21/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NRS 2007



5
 ANDREW BOLNICK, TRUSTEE
 DB 3344 PG 212
 MB 33 PG 287
 MB 31 PG 17

6
 CGS LAND HOLDINGS, LLC
 DB 1902 PG 703
 MB Z PG 310

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 mcfarland

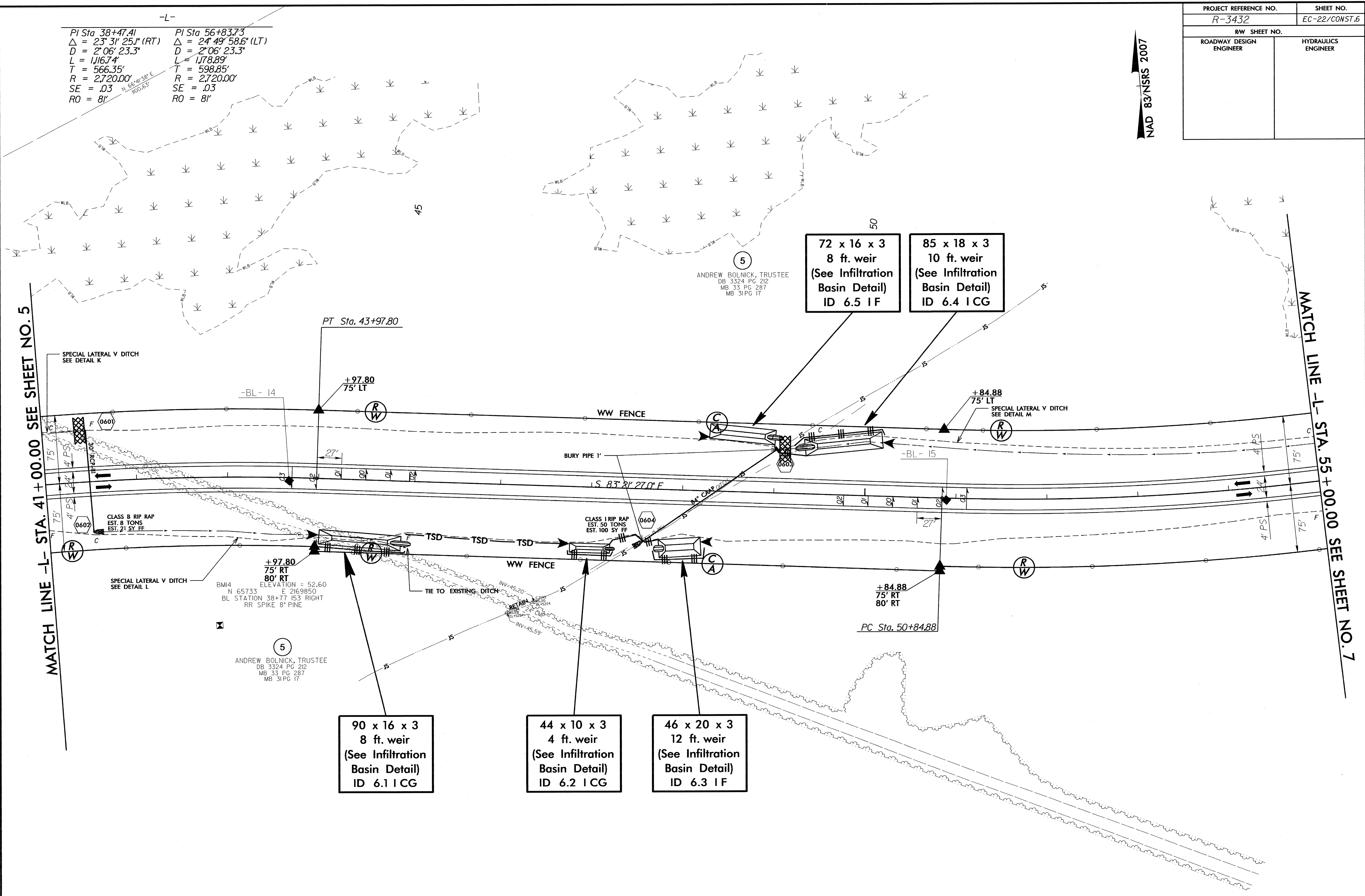
FOR -L- PROFILE SEE SHEET 16

PROJECT REFERENCE NO. R-3432		SHEET NO. EC-22/CONST.6	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

NAD 83/NRS 2007

-L-

PI Sta 38+47.41 Δ = 23° 31' 25.1" (RT) D = 2° 06' 23.3" L = 1,116.74' T = 566.35' R = 2,720.00' SE = .03 RO = 81'	PI Sta 56+83.73 Δ = 24° 49' 58.6" (LT) D = 2° 06' 23.3" L = 1,178.89' T = 598.85' R = 2,720.00' SE = .03 RO = 81'
--	--



**90 x 16 x 3
8 ft. weir
(See Infiltration
Basin Detail)
ID 6.1 ICG**

**44 x 10 x 3
4 ft. weir
(See Infiltration
Basin Detail)
ID 6.2 ICG**

**46 x 20 x 3
12 ft. weir
(See Infiltration
Basin Detail)
ID 6.3 IF**

**72 x 16 x 3
8 ft. weir
(See Infiltration
Basin Detail)
ID 6.5 IF**

**85 x 18 x 3
10 ft. weir
(See Infiltration
Basin Detail)
ID 6.4 ICG**

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FOR -L- PROFILE SEE SHEET 17

8/17/99

PROJECT REFERENCE NO. R-3432		SHEET NO. EC-23/CONST.7	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

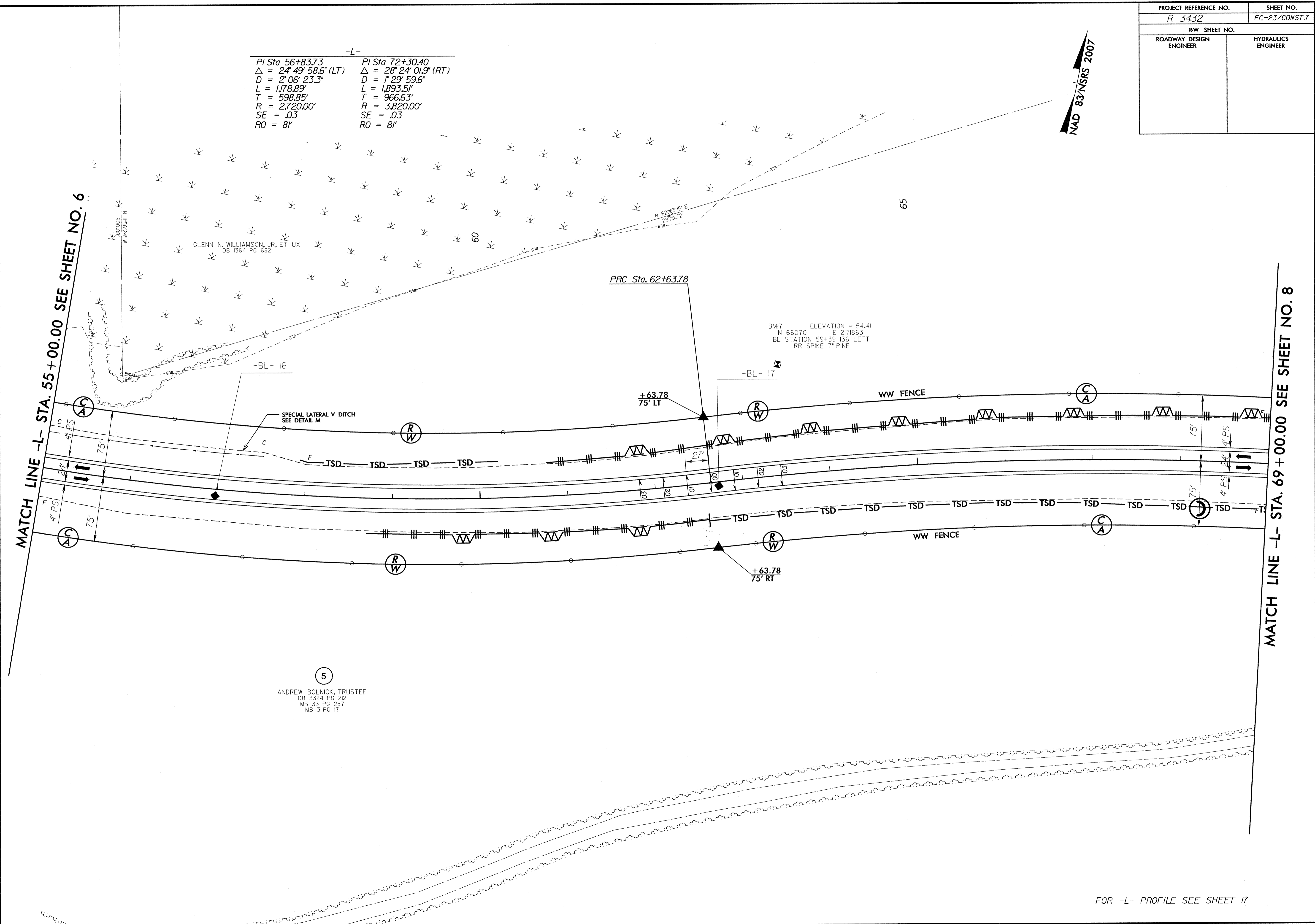
NAD 83/NRS 2007

-L-

PI Sta 56+83.73	PI Sta 72+30.40
$\Delta = 24^{\circ} 49' 58.6"$ (LT)	$\Delta = 28^{\circ} 24' 01.9"$ (RT)
$D = 2^{\circ} 06' 23.3"$	$D = 1^{\circ} 29' 59.6"$
$L = 1,178.89'$	$L = 1,893.51'$
$T = 598.85'$	$T = 966.63'$
$R = 2,720.00'$	$R = 3,820.00'$
$SE = .03$	$SE = .03$
$RO = 8'$	$RO = 8'$

MATCH LINE -L- STA. 55+00.00 SEE SHEET NO. 6

MATCH LINE -L- STA. 69+00.00 SEE SHEET NO. 8



GLENN N. WILLIAMSON, JR., ET UX
DB 1364 PG 682

5
ANDREW BOLNICK, TRUSTEE
DB 3324 PG 212
MB 33 PG 287
MB 31 PG 17

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B:\L\bolnick

FOR -L- PROFILE SEE SHEET 17

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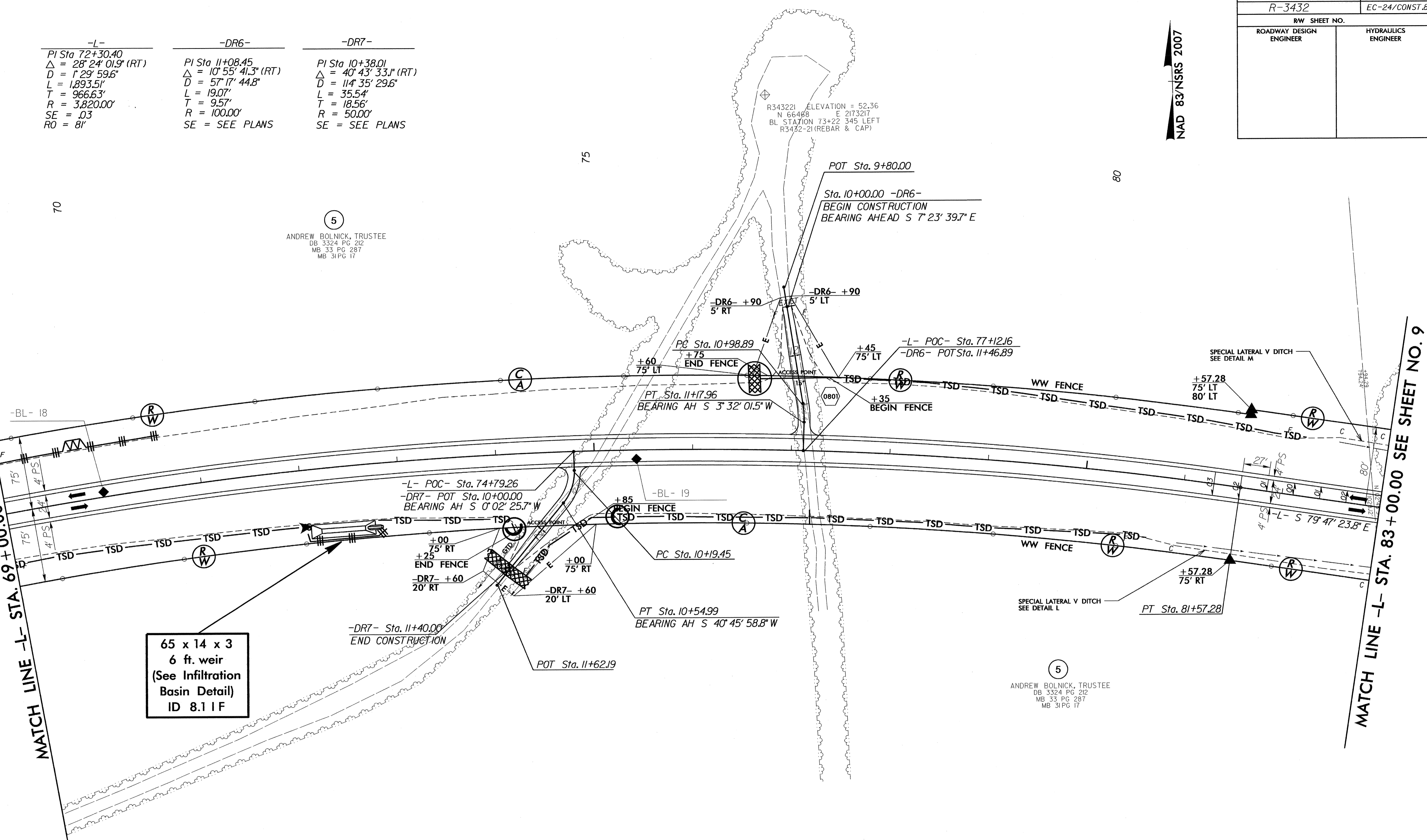
PROJECT REFERENCE NO. R-3432	SHEET NO. EC-24/CONST.8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NRS 2007

-L-	-DR6-	-DR7-
PI Sta 72+30.40	PI Sta 11+08.45	PI Sta 10+38.01
$\Delta = 28^\circ 24' 01.9" (RT)$	$\Delta = 10^\circ 55' 41.3" (RT)$	$\Delta = 40^\circ 43' 33.1" (RT)$
$D = 1^\circ 29' 59.6"$	$D = 57^\circ 17' 44.8"$	$D = 114^\circ 35' 29.6"$
$L = 1,893.51'$	$L = 19.07'$	$L = 35.54'$
$T = 966.63'$	$T = 9.57'$	$T = 18.56'$
$R = 3,820.00'$	$R = 100.00'$	$R = 50.00'$
$SE = .03$	$R = 100.00'$	$R = 50.00'$
$RO = 81'$	$SE = SEE PLANS$	$SE = SEE PLANS$

MATCH LINE -L- STA. 69+00.00 SEE SHEET NO. 7

MATCH LINE -L- STA. 83+00.00 SEE SHEET NO. 9



65 x 14 x 3
6 ft. weir
(See Infiltration
Basin Detail)
ID 8.11F

5
ANDREW BOLNICK, TRUSTEE
DB 3324 PG 212
MB 33 PG 287
MB 31 PG 17

5
ANDREW BOLNICK, TRUSTEE
DB 3324 PG 212
MB 33 PG 287
MB 31 PG 17

NOTE: DRIVEWAY RADII ARE 10' UNLESS OTHERWISE SHOWN.
FOR -L- PROFILE SEE SHEET 18
FOR -DR6- PROFILE SEE SHEET 23
FOR -DR7- PROFILE SEE SHEET 23

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AutoCAD 2013

8/17/99

PROJECT REFERENCE NO. R-3432	SHEET NO. EC-26/CONST.10
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

NOTE:
INSTALL EXCELSIOR WATTLES WITH POLYACRYLAMIDE (PAM)
AT TEMPORARY SLOPE DRAIN INLETS WHERE INDICATED.

PI Sta 97+39.71 Δ = 60° 46' 46.1" (LT) D = 3' 49' 11.0" L = 1591.20' T = 879.68' R = 1500.00' SE = 04 RO = 108'	PI Sta 106+65.62 Δ = 16° 16' 03.6" (RT) D = 3' 49' 11.0" L = 425.89' T = 214.39' R = 1500.00' SE = 04 RO = 108'
--	--

50 x 14 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
6 ft. weir
ID 10.2 F

54 x 16 x 3
8 ft. weir
(See Infiltration
Basin Detail)
ID 10.2 I F

50 x 16 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
8 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 10.4 F

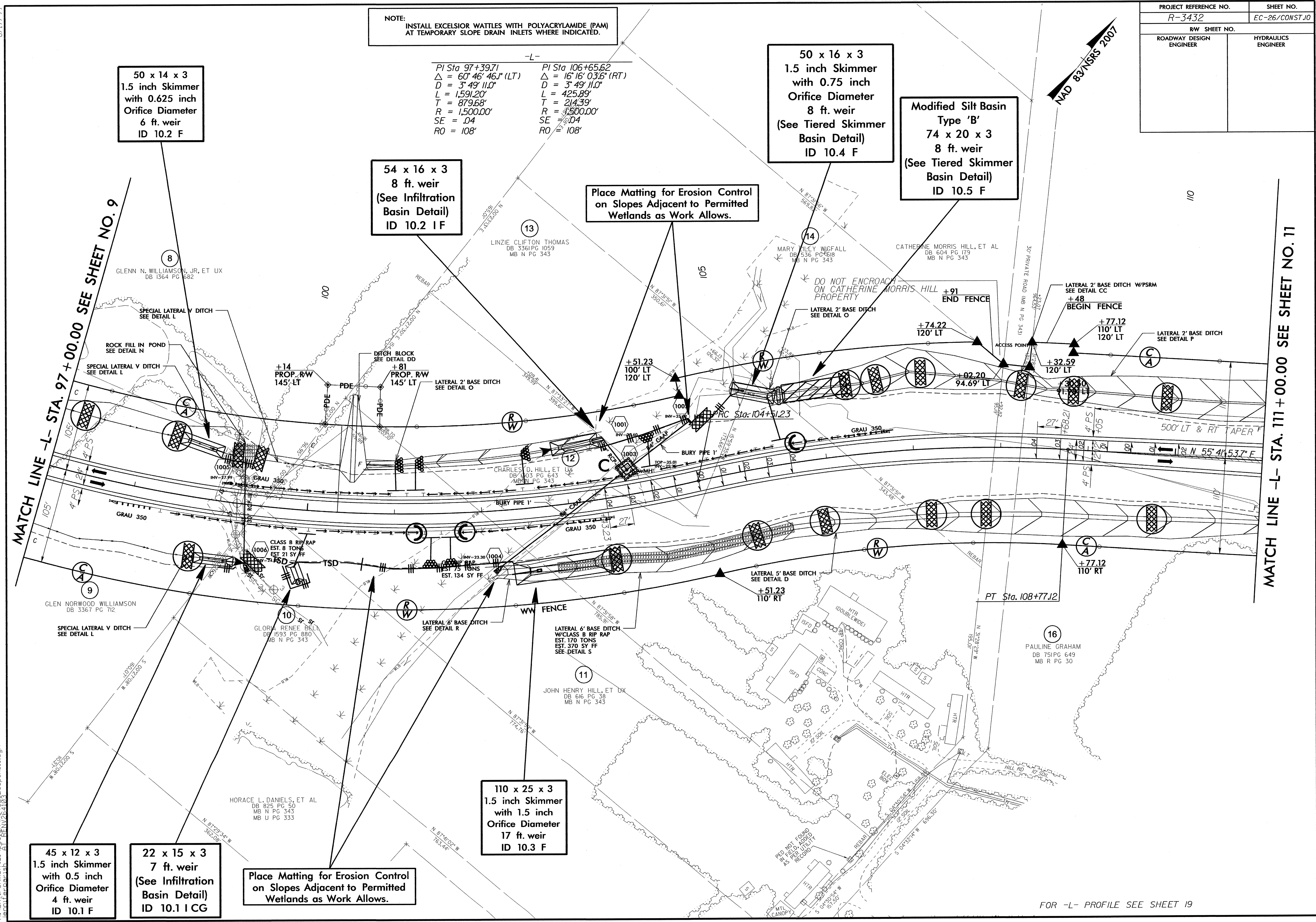
Modified Silt Basin
Type 'B'
74 x 20 x 3
8 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 10.5 F

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

MATCH LINE -L- STA. 97+00.00 SEE SHEET NO. 9

MATCH LINE -L- STA. 111+00.00 SEE SHEET NO. 11

19-SEP-2013 15:29
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10-11-09



45 x 12 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
4 ft. weir
ID 10.1 F

22 x 15 x 3
7 ft. weir
(See Infiltration
Basin Detail)
ID 10.1 I CG

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

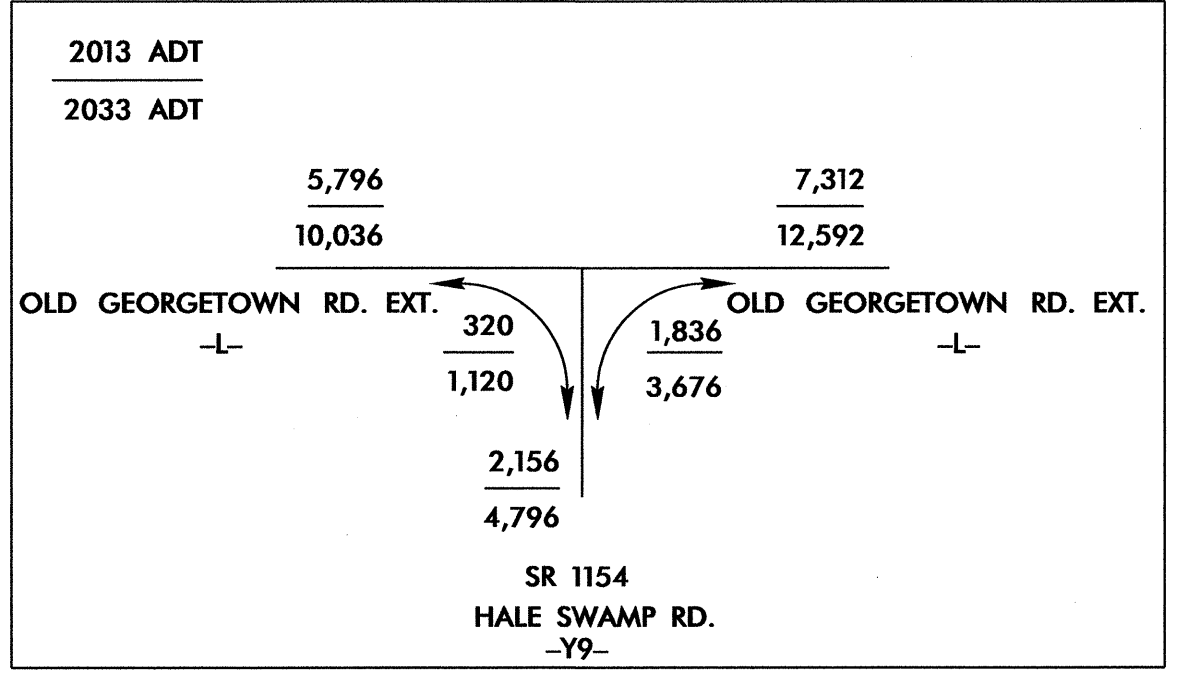
110 x 25 x 3
1.5 inch Skimmer
with 1.5 inch
Orifice Diameter
17 ft. weir
ID 10.3 F

FOR -L- PROFILE SEE SHEET 19

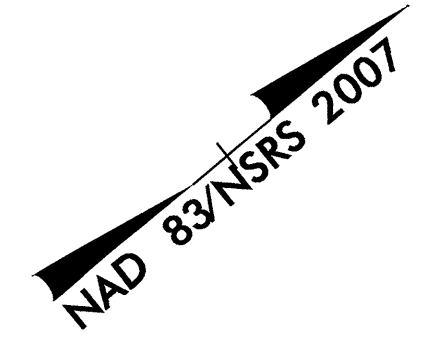
8/17/09

PROJECT REFERENCE NO. R-3432		SHEET NO. EC-27/CONST.II	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

-L-
 PI Sta 119+40.44
 $\Delta = 39^\circ 34' 10.4" (LT)$
 $D = 3^\circ 49' 11.0"$
 $L = 1,035.93'$
 $T = 539.58'$
 $R = 1,500.00'$
 $SE = .04$
 $RO = 108'$

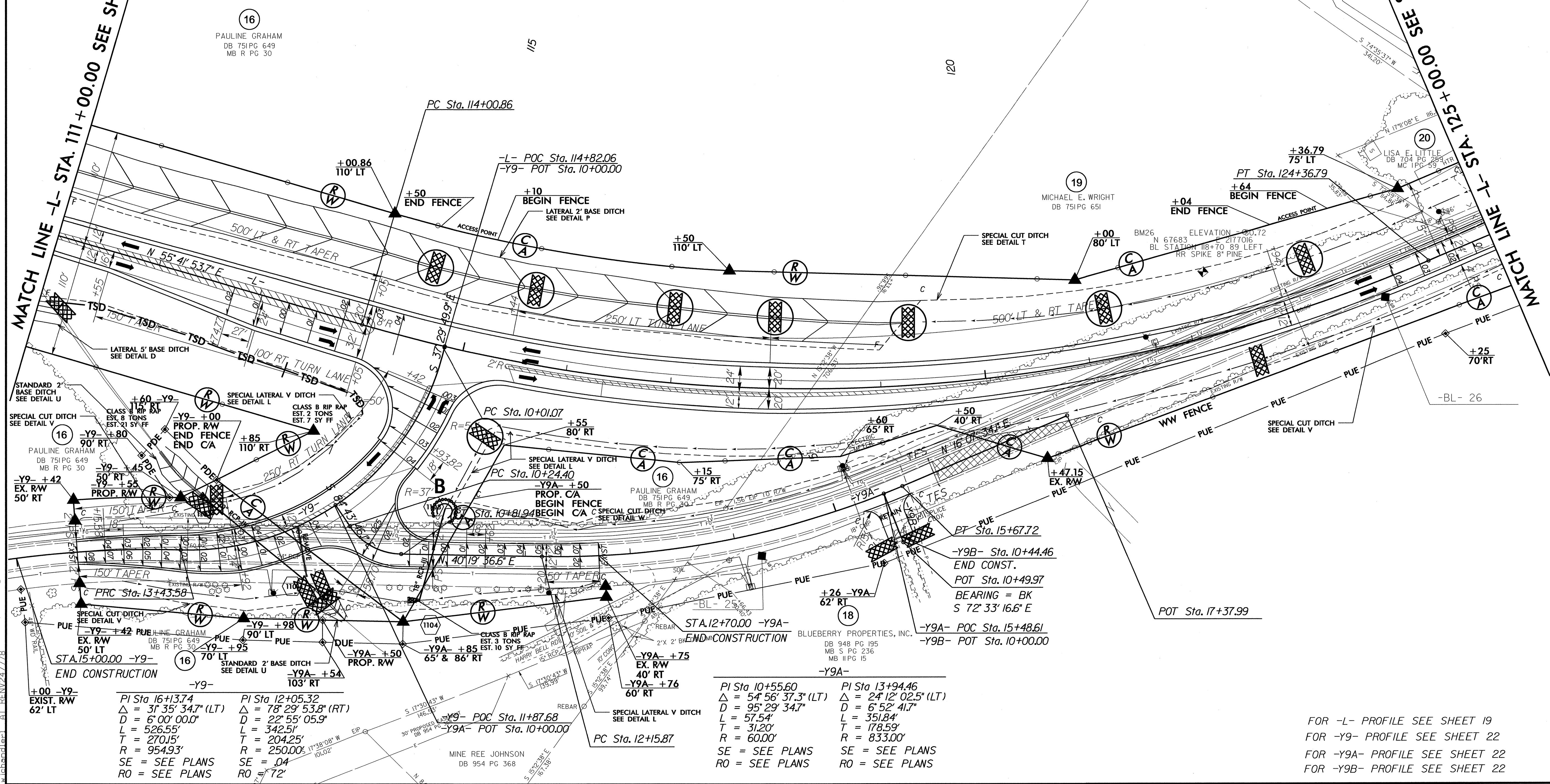


SHEFFIELD SEAFOOD & GROCERY, INC
 DB 1503 PG 859
 MB R PG 90



MATCH LINE -L- STA. 111+00.00 SEE SHEET NO. 10

MATCH LINE -L- STA. 123+00.00 SEE SHEET NO. 12



PI Sta 16+13.74
 $\Delta = 31^\circ 35' 34.7" (LT)$
 $D = 6^\circ 00' 00.0"$
 $L = 526.55'$
 $T = 270.15'$
 $R = 954.93'$
 $SE = SEE PLANS$
 $RO = SEE PLANS$

PI Sta 12+05.32
 $\Delta = 78^\circ 29' 53.8" (RT)$
 $D = 22^\circ 55' 05.9"$
 $L = 342.51'$
 $T = 204.25'$
 $R = 250.00'$
 $SE = .04$
 $RO = 72'$

PI Sta 10+55.60
 $\Delta = 54^\circ 56' 37.3" (LT)$
 $D = 95^\circ 29' 34.7"$
 $L = 57.54'$
 $T = 31.20'$
 $R = 60.00'$
 $SE = SEE PLANS$
 $RO = SEE PLANS$

PI Sta 13+94.46
 $\Delta = 24^\circ 12' 02.5" (LT)$
 $D = 6^\circ 52' 41.7"$
 $L = 351.84'$
 $T = 178.59'$
 $R = 833.00'$
 $SE = SEE PLANS$
 $RO = SEE PLANS$

FOR -L- PROFILE SEE SHEET 19
 FOR -Y9- PROFILE SEE SHEET 22
 FOR -Y9A- PROFILE SEE SHEET 22
 FOR -Y9B- PROFILE SEE SHEET 22

12-SEP-2013 10:01 AM
 R:\Projects\2013\12-SEP-2013\12-SEP-2013-EC-psh-11.dgn
 R:\Projects\2013\12-SEP-2013\12-SEP-2013-EC-psh-11.dgn
 R:\Projects\2013\12-SEP-2013\12-SEP-2013-EC-psh-11.dgn

8/17/09

PROJECT REFERENCE NO. R-3432		SHEET NO. EC-29/CONST.13	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

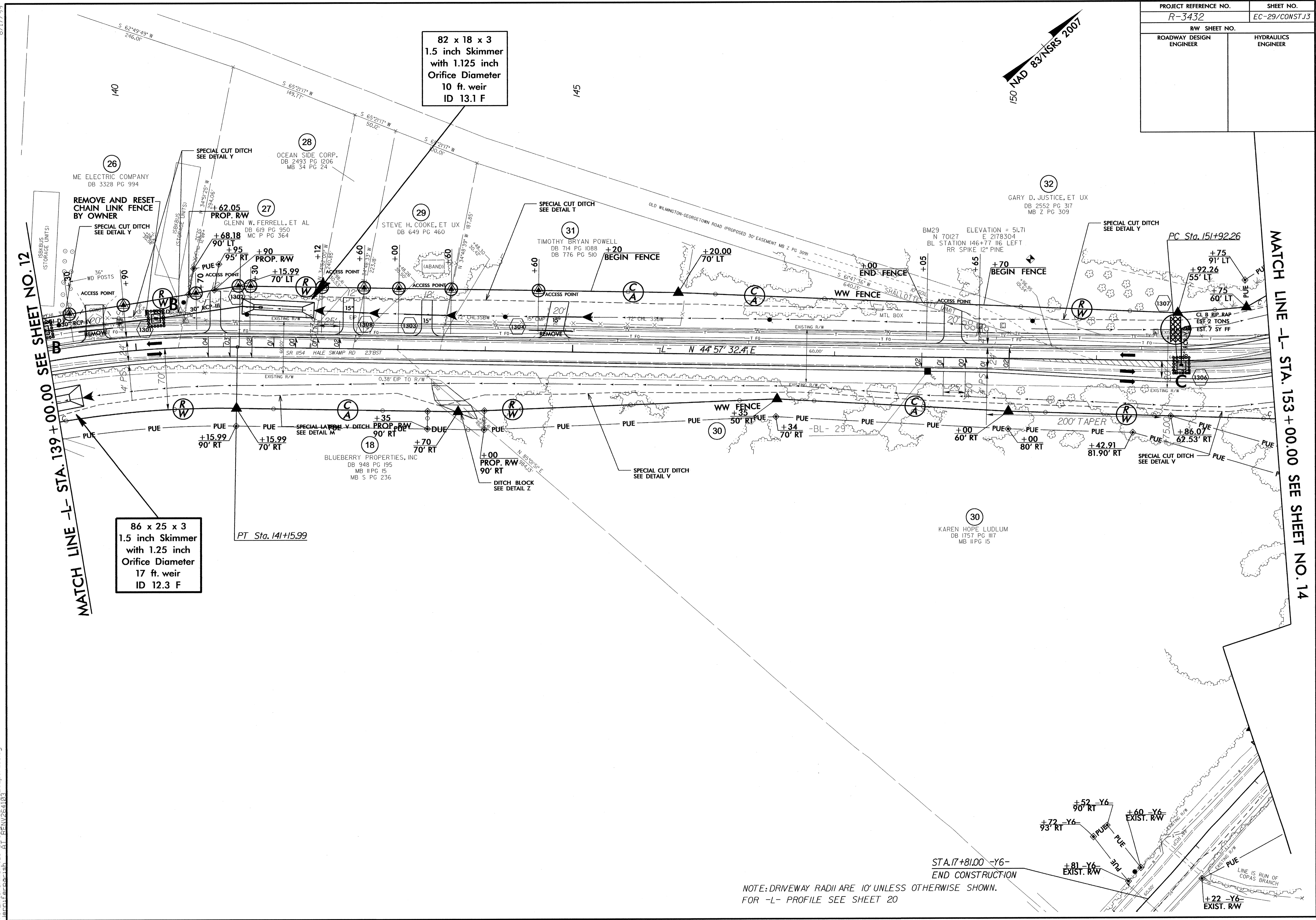
150 NAD 83/NSRS 2007

MATCH LINE -L- STA. 139 + 00.00 SEE SHEET NO. 12

MATCH LINE -L- STA. 153 + 00.00 SEE SHEET NO. 14

82 x 18 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
10 ft. weir
ID 13.1 F

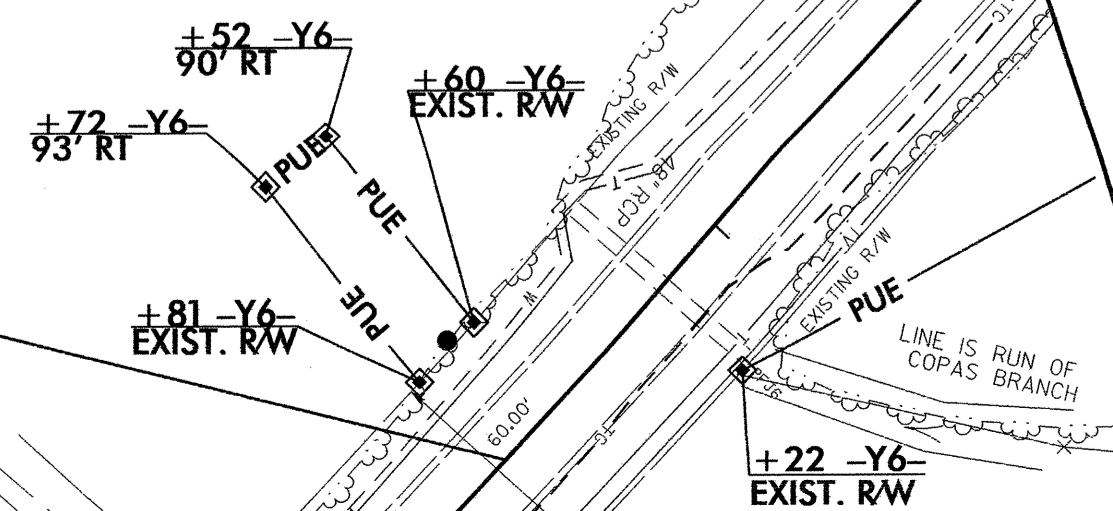
86 x 25 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
17 ft. weir
ID 12.3 F



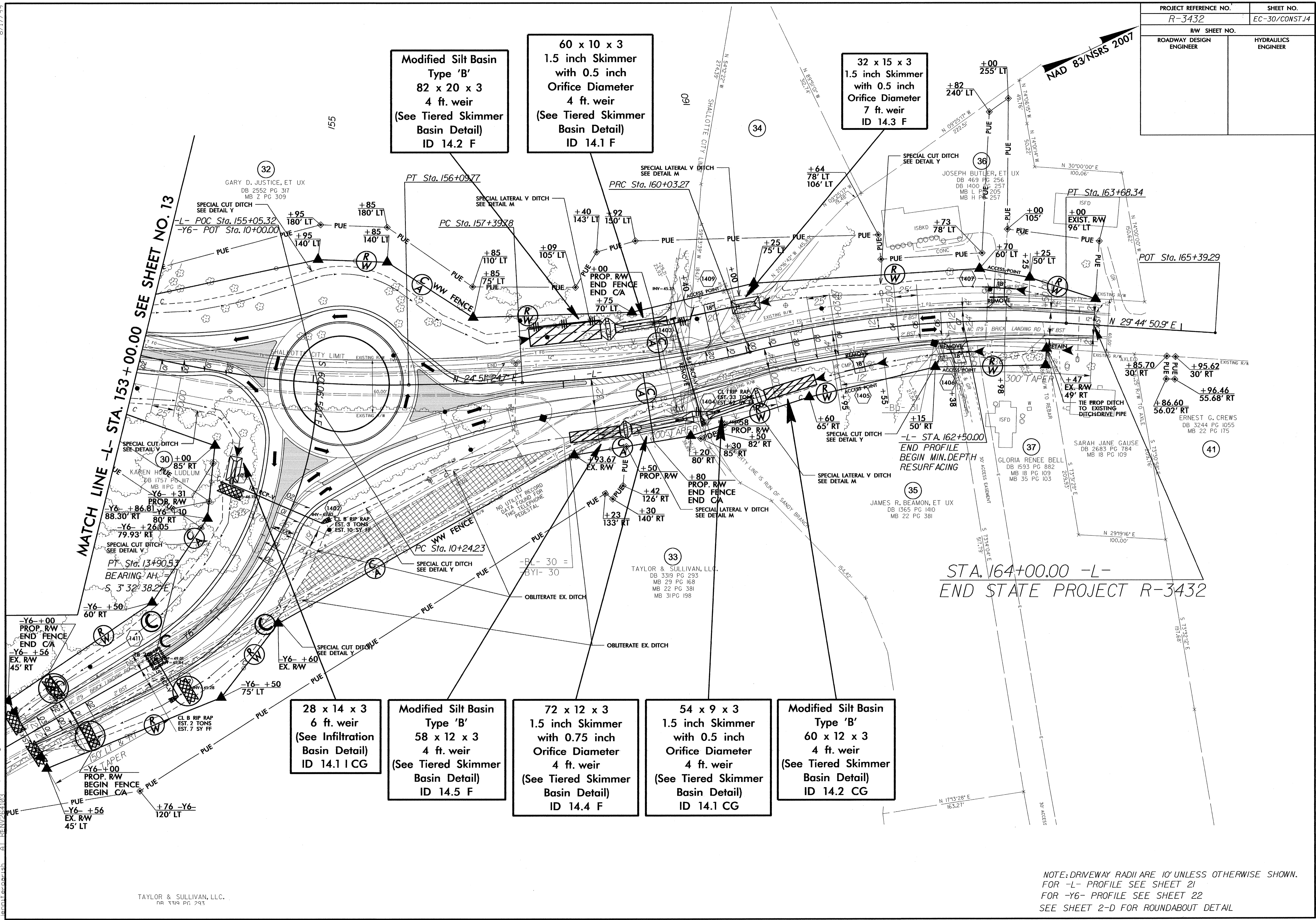
SEP-2013 15:16
H:\cmyr\comment\ca\1\Drawings\2013\20130922_EC-phs_13.dgn
13/09/2013 15:16:33

NOTE: DRIVEWAY RADII ARE 10' UNLESS OTHERWISE SHOWN.
FOR -L- PROFILE SEE SHEET 20

STA. 17+81.00 -Y6-
END CONSTRUCTION



PROJECT REFERENCE NO. R-3432		SHEET NO. EC-30/CONST.1A	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



**Modified Silt Basin
Type 'B'
82 x 20 x 3
4 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 14.2 F**

**60 x 10 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
4 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 14.1 F**

**32 x 15 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
7 ft. weir
ID 14.3 F**

**28 x 14 x 3
6 ft. weir
(See Infiltration
Basin Detail)
ID 14.1 ICG**

**Modified Silt Basin
Type 'B'
58 x 12 x 3
4 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 14.5 F**

**72 x 12 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
4 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 14.4 F**

**54 x 9 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
4 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 14.1 CG**

**Modified Silt Basin
Type 'B'
60 x 12 x 3
4 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 14.2 CG**

STA. 164+00.00 -L-
END STATE PROJECT R-3432

NOTE: DRIVEWAY RADII ARE 10' UNLESS OTHERWISE SHOWN.
FOR -L- PROFILE SEE SHEET 2I
FOR -Y6- PROFILE SEE SHEET 22
SEE SHEET 2-D FOR ROUNDABOUT DETAIL

8/17/2013 15:19 R:\SEP-2013\1519\1\DWG\PLAN\DR3432_EC.pch.14.dgn

8/17/09

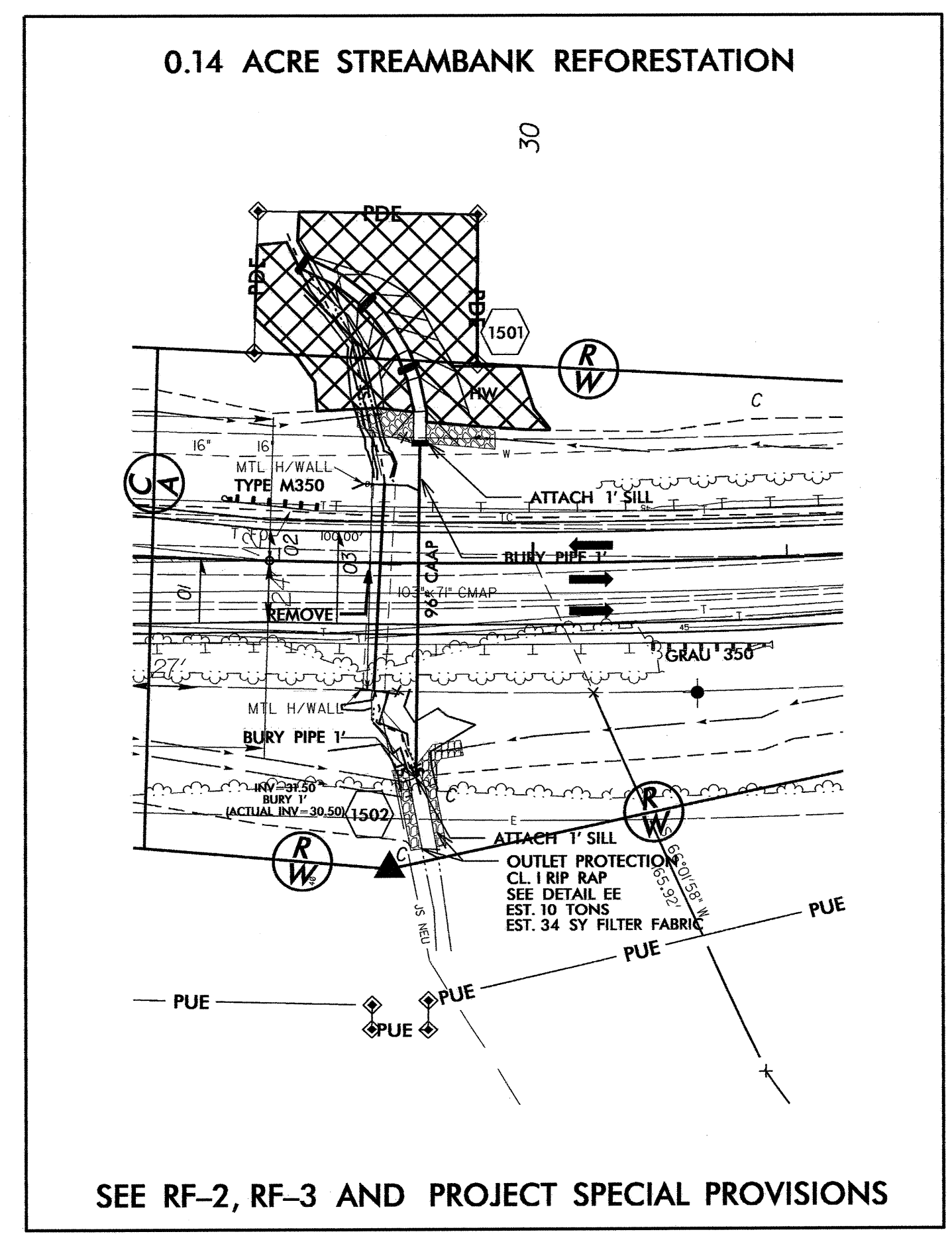
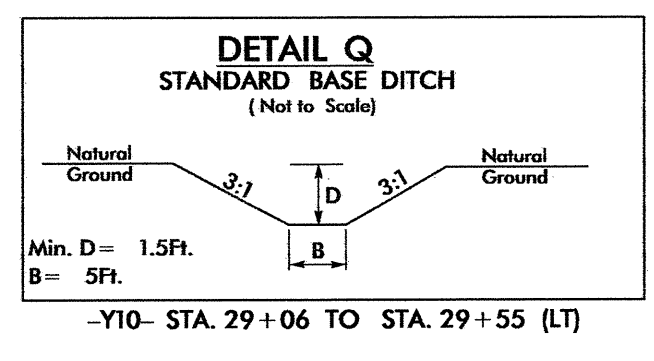
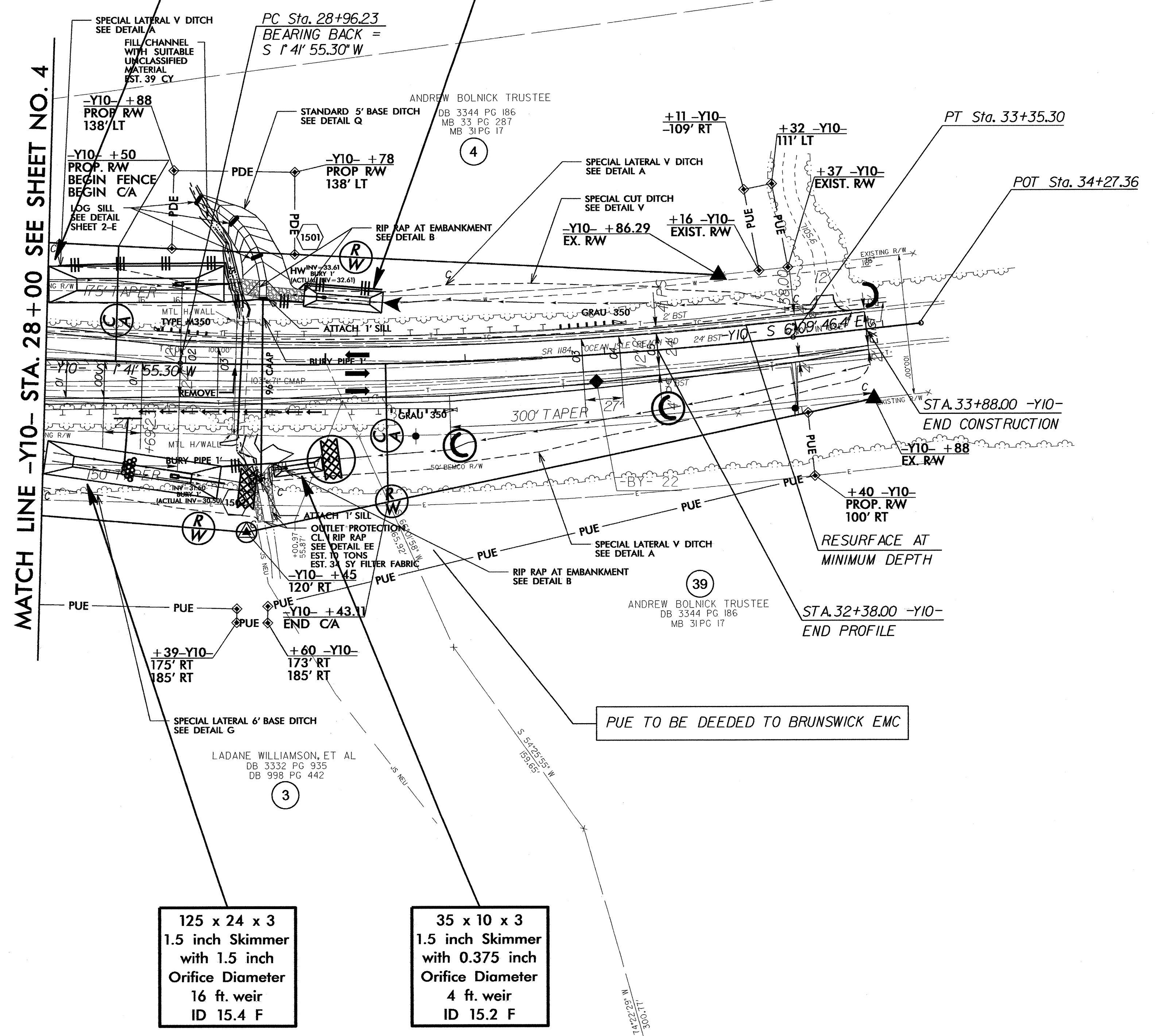
PROJECT REFERENCE NO.	SHEET NO.
R-3432	EC-31/CONST.15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NSRS 2007

-Y10-
 PI Sta. 31+16.11
 $\Delta = 7' 5" 41.7" (LT)$
 $D = 1' 47" 25.8"$
 $L = 439.07'$
 $T = 219.88'$
 $R = 3,200.00'$
 $SE = .03$
 $RO = 8'$

125 x 26 x 3
 2.0 inch Skimmer
 with 1.625 inch
 Orifice Diameter
 18 ft. weir
 ID 15.3 F

56 x 15 x 3
 1.5 inch Skimmer
 with 0.75 inch
 Orifice Diameter
 7 ft. weir
 ID 15.1 F



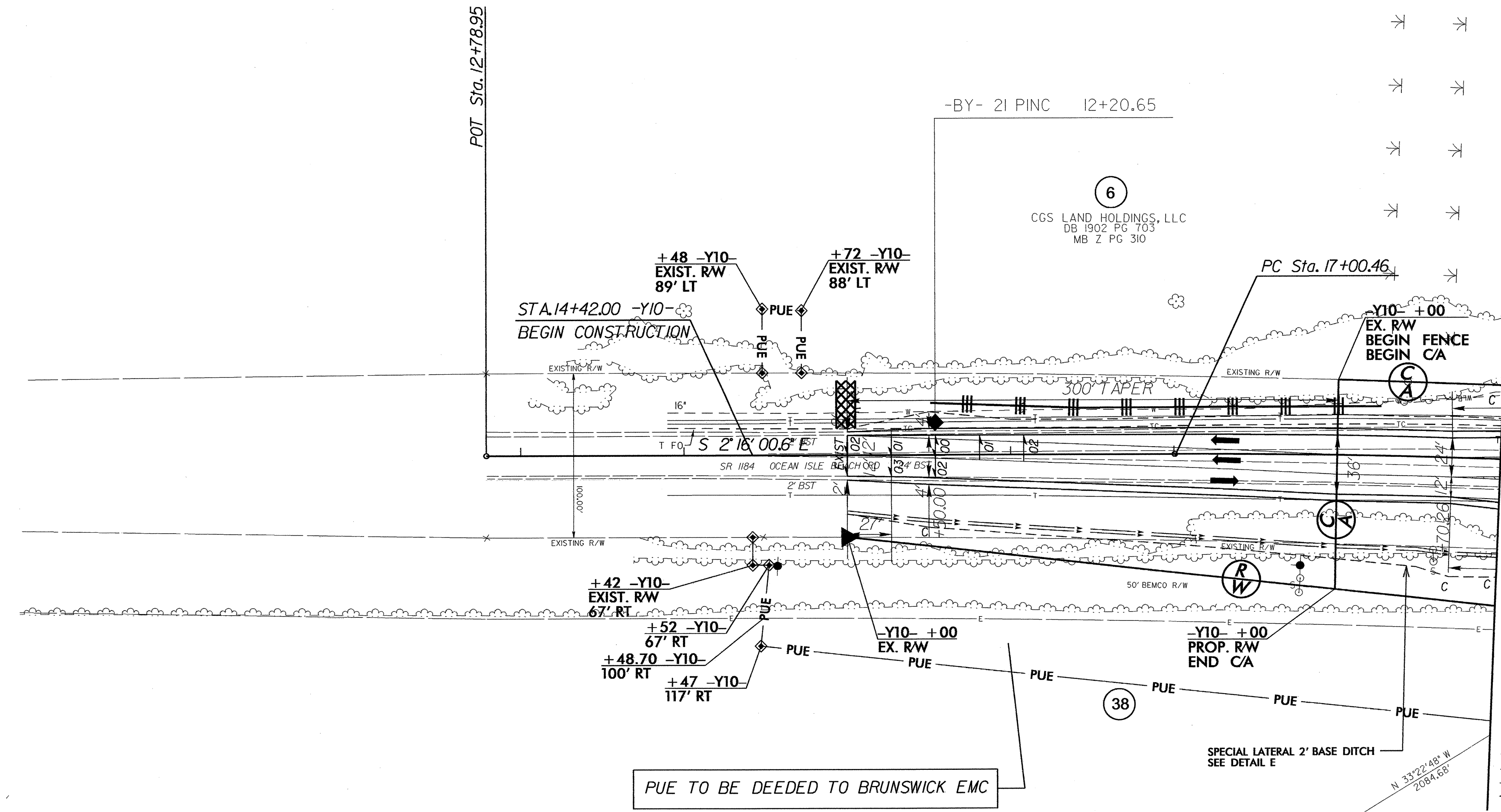
FOR -Y10- PROFILE SEE SHEET 21A

10-SEP-2013 15:23
 R:\Environmental_Design\2013\2013-EC-psph-15.dgn
 Alan Farquhar

PROJECT REFERENCE NO.	SHEET NO.
R-3432	EC-32/CONST.15A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-Y10-
 PI Sta 18+73.55
 $\Delta = 3^\circ 57' 55.9" (RT)$
 $D = 1^\circ 08' 45.3"$
 $L = 346.06'$
 $T = 173.0'$
 $R = 5,000.00'$
 $SE = .04$
 $RO = 108'$

NAD 83/NSRS 2007



MATCH LINE -Y10- STA. 19+00 SEE SHEET NO. 4

8/17/09

10 SEP 2013 15:27
 C:\Users\jromm\OneDrive\Documents\15A\15A.dgn
 15A.dwg

FOR -Y10- PROFILE SEE SHEET 21A