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TIP PROJECT: K-4908

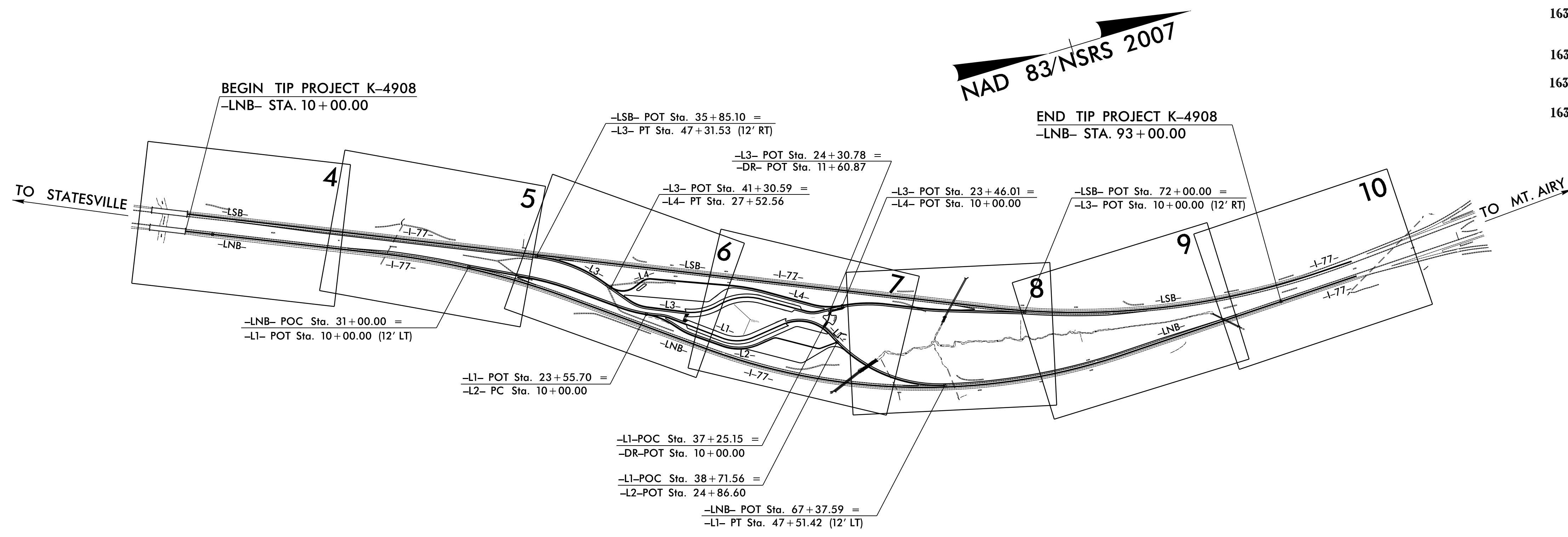
STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
 PLAN FOR PROPOSED
 HIGHWAY EROSION CONTROL
IREDELL COUNTY

LOCATION: I-77 REST AREA ON NEW LOCATION AT MILE MARKER #58
TYPE OF WORK: GRADING, DRAINAGE, PAVING, SIGNING, LIGHTING, REST AREA, AND CULVERTS

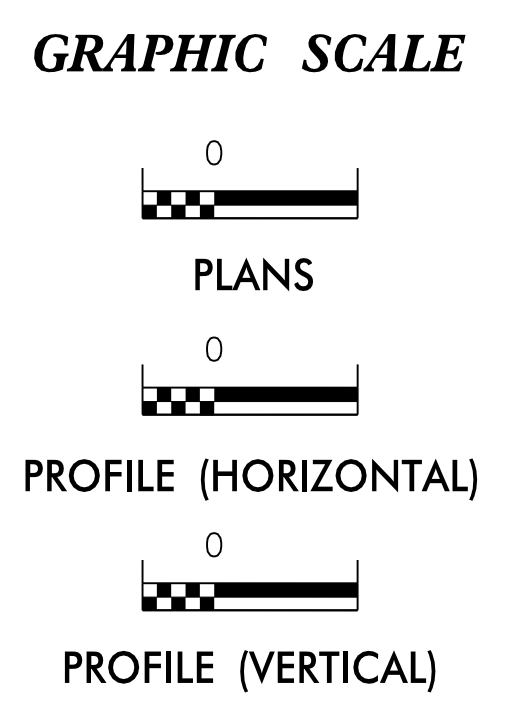
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	K-4908	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	△△△△△△△△
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.



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

Designed by:
JEREMY GOODWIN **3446**
 NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

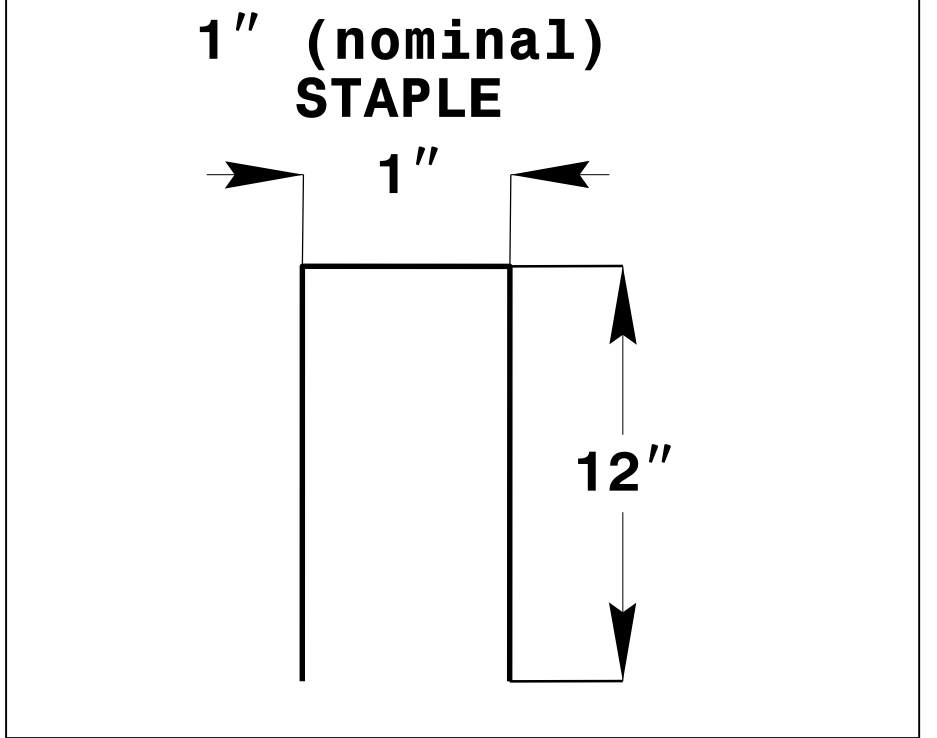
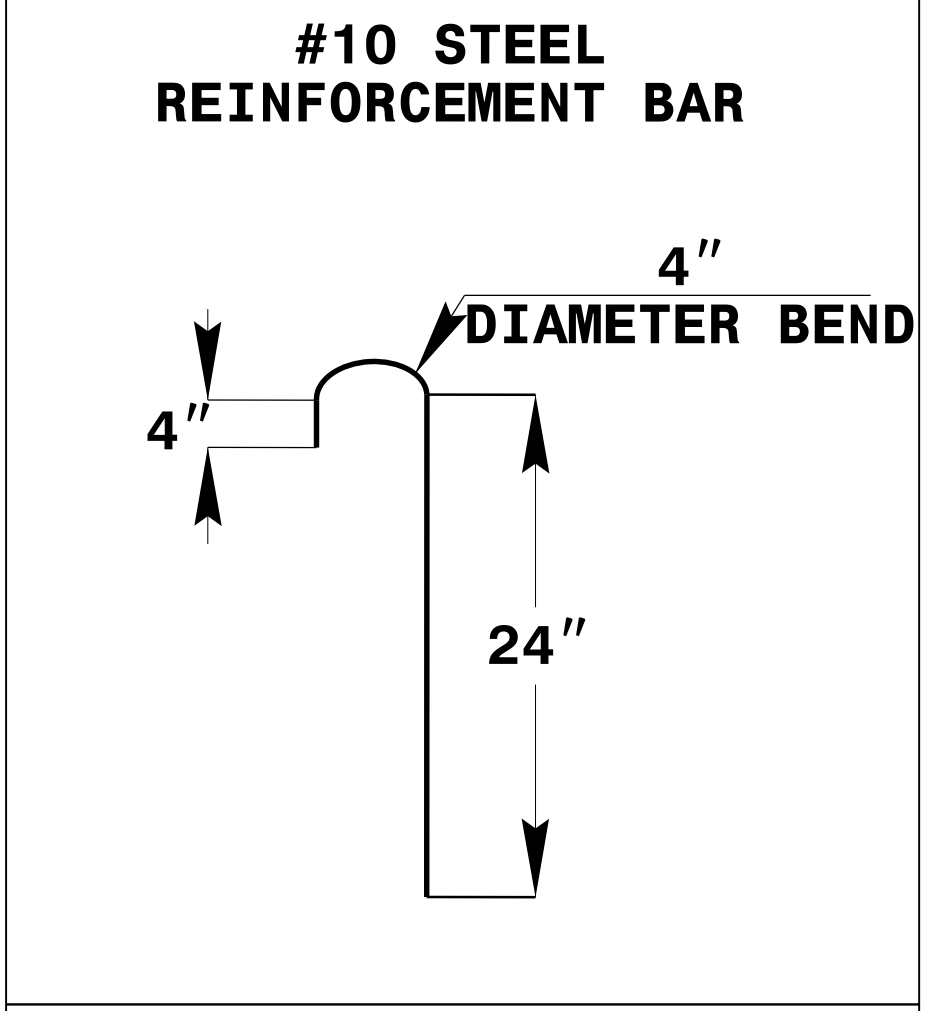
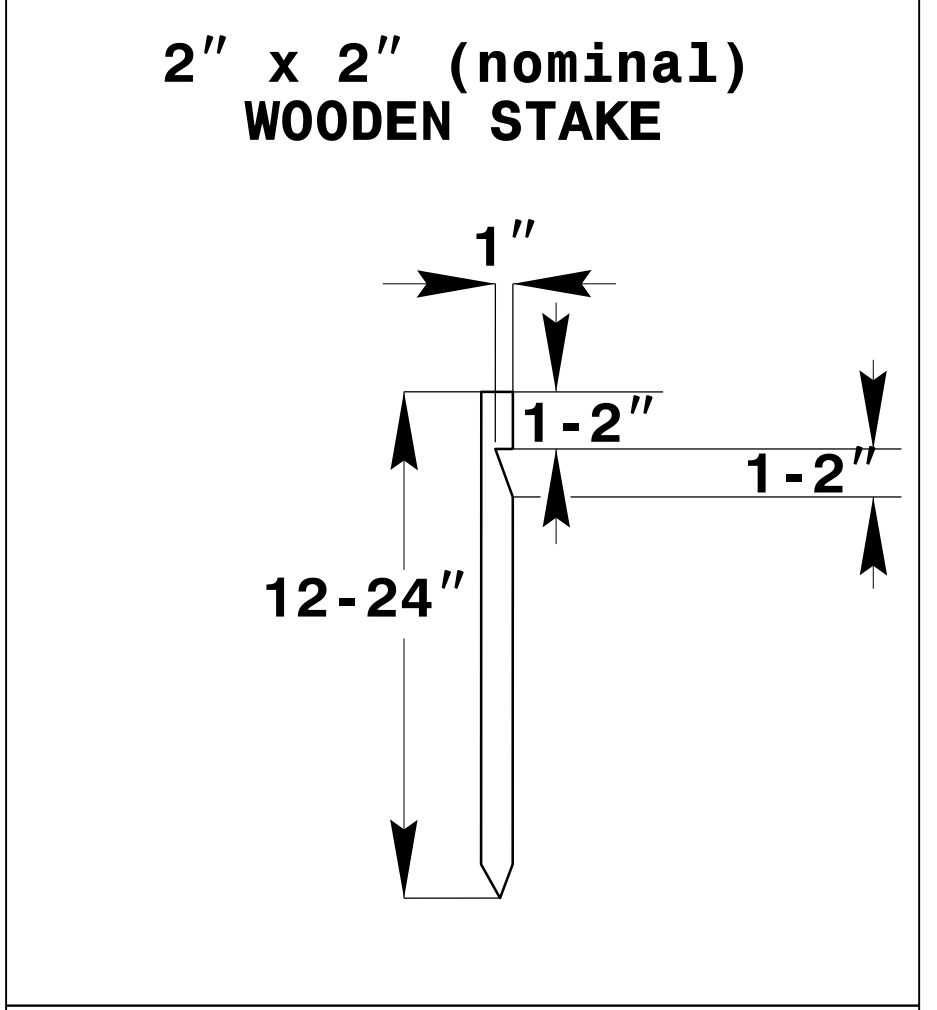
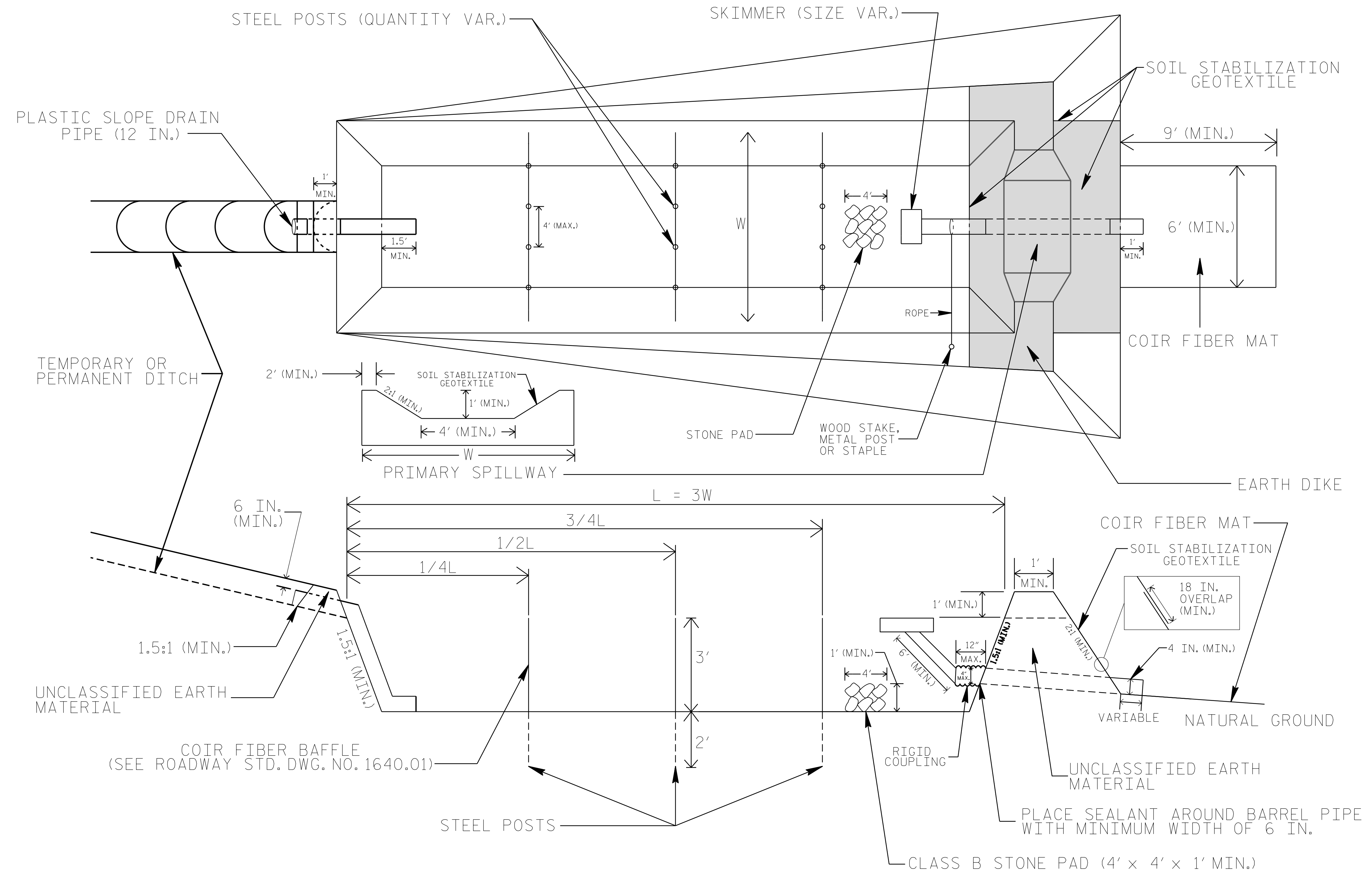
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2012 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

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	

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PROJECT REFERENCE NO. K-4908	SHEET NO. EC-02
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SKIMMER BASIN WITH BAFFLES DETAIL



COIR FIBER MAT ANCHOR OPTIONS

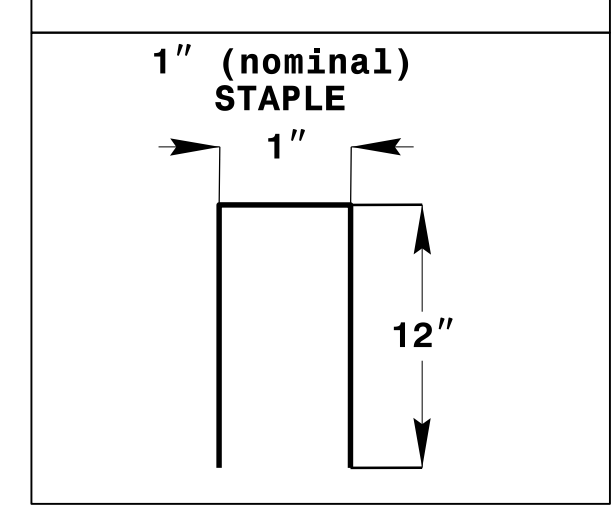
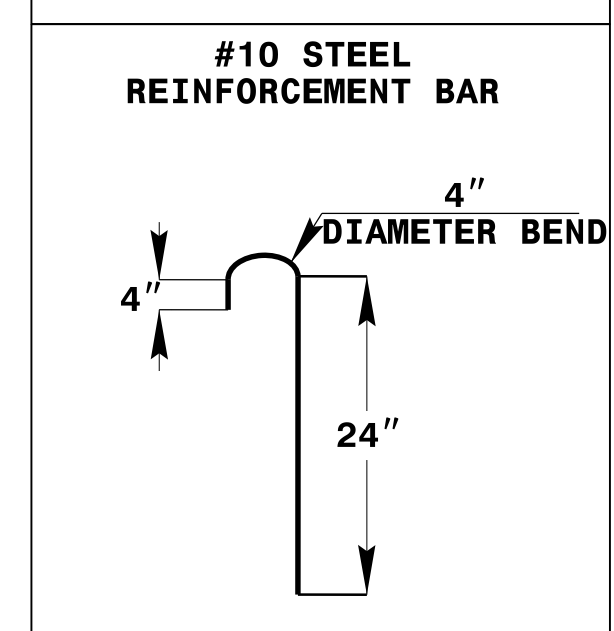
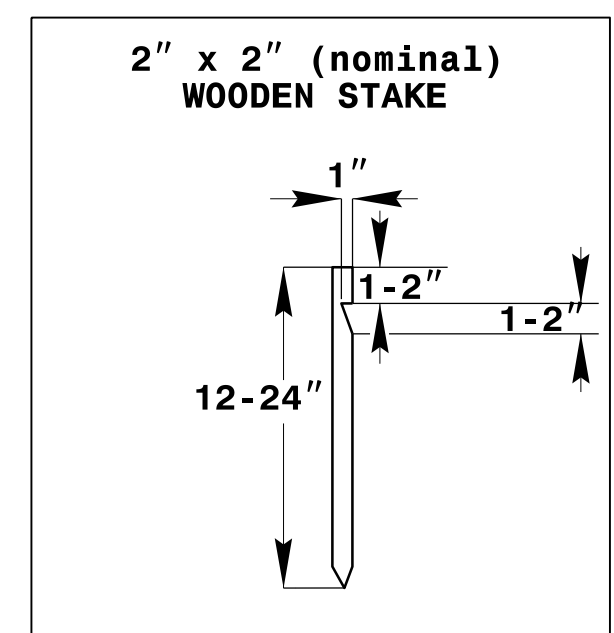
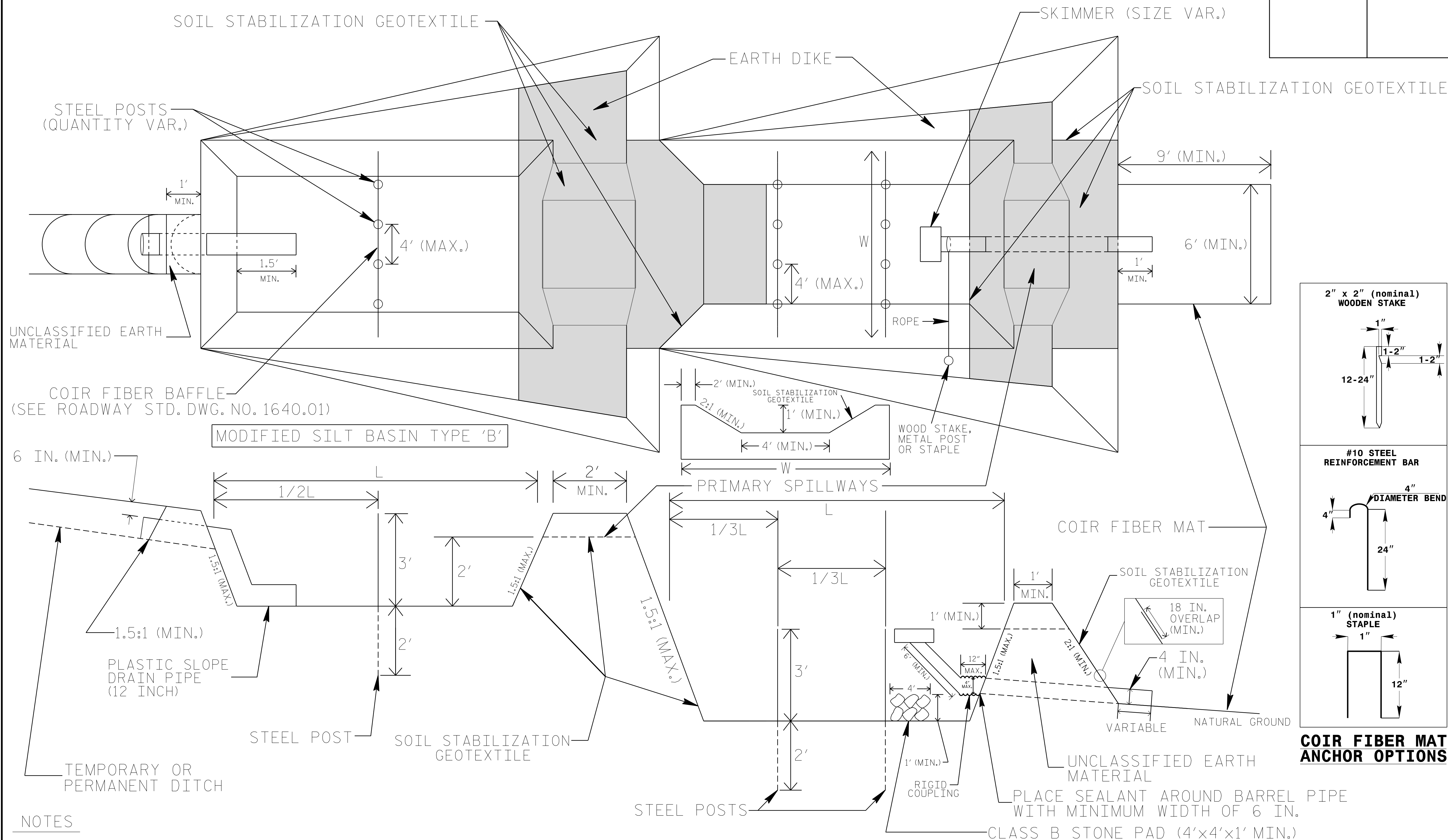
NOTES

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. SOIL STABILIZATION GEOTEXTILE FOR PRIMARY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

NOT TO SCALE

TIERED SKIMMER BASIN DETAIL

PROJECT REFERENCE NO. K-4908	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



COIR FIBER MAT ANCHOR OPTIONS

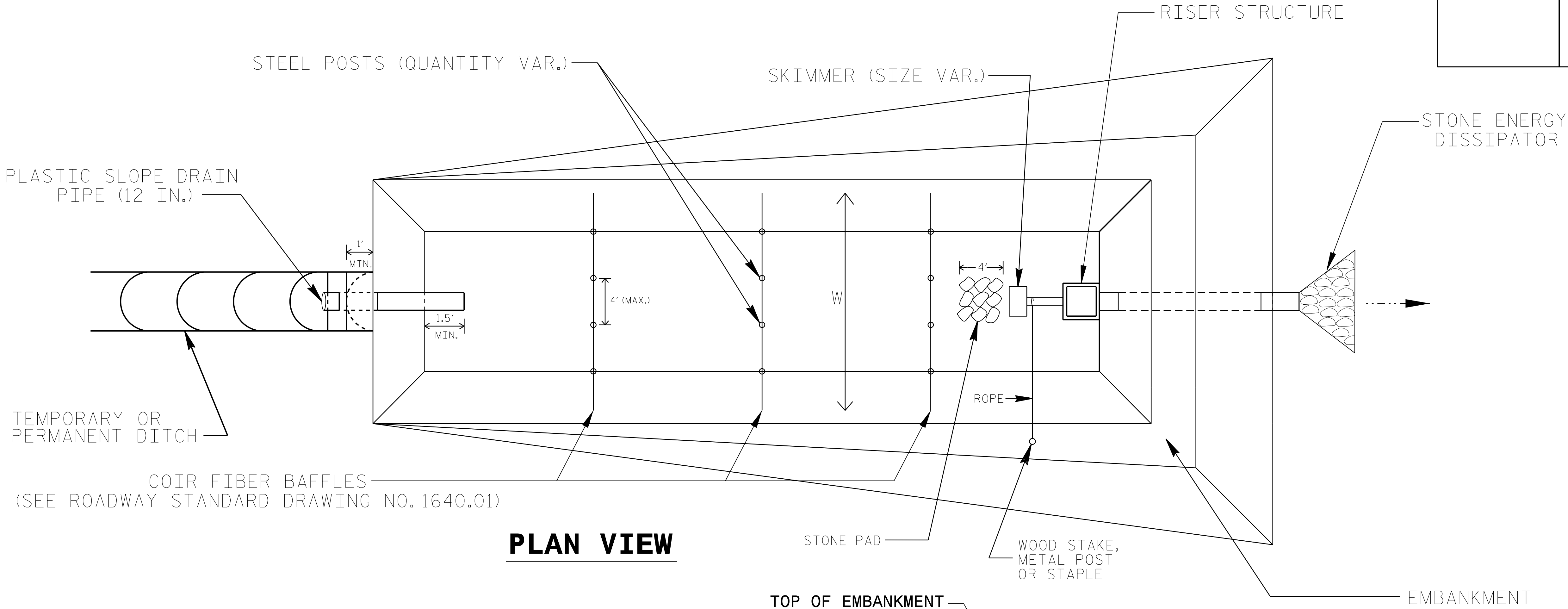
NOTES

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 WEIR LENGTHS (FT.) USING $Q/0.4$, WHERE Q IS FLOW RATE (CFS) INTO UPPER BASIN.
6. SOIL STABILIZATION GEOTEXTILE FOR PRIMARY SPILLWAYS SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

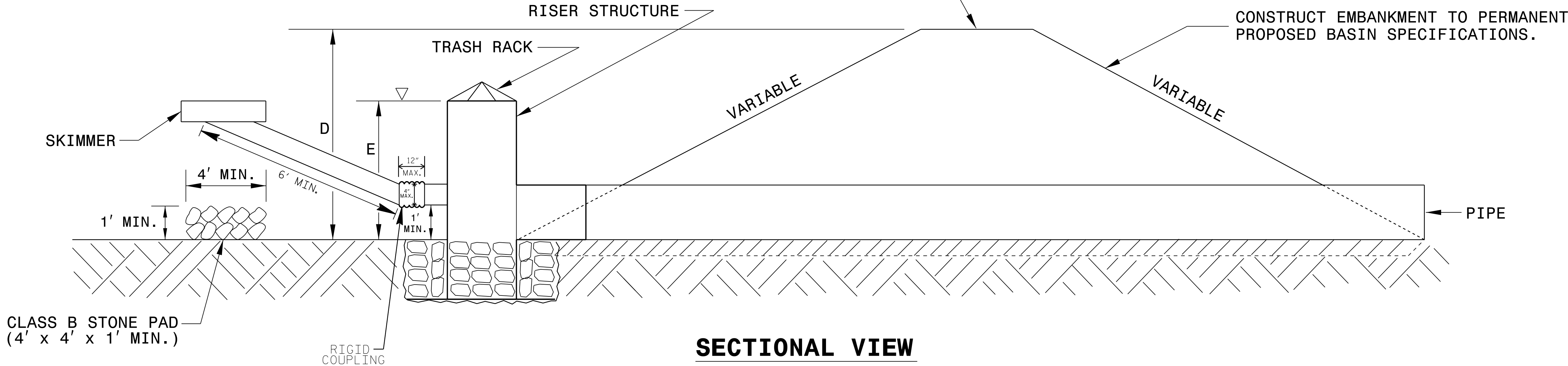
NOT TO SCALE

PROJECT REFERENCE NO. K-4908	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

STORMWATER BASIN WITH SKIMMER



PLAN VIEW



SECTIONAL VIEW

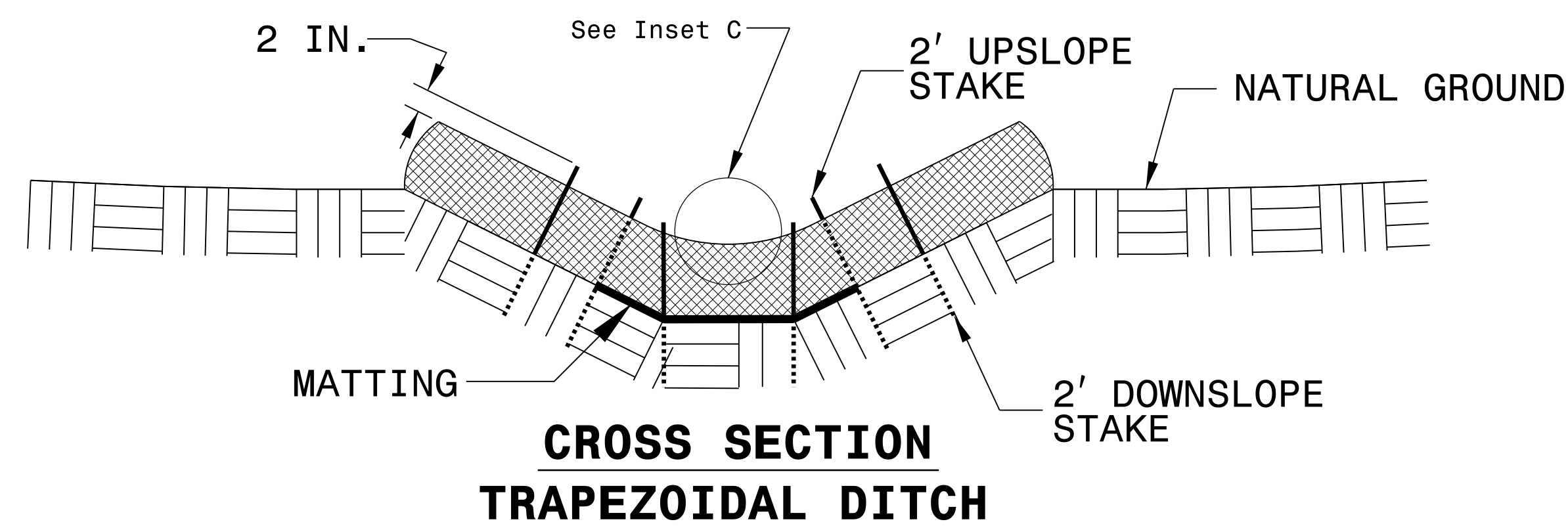
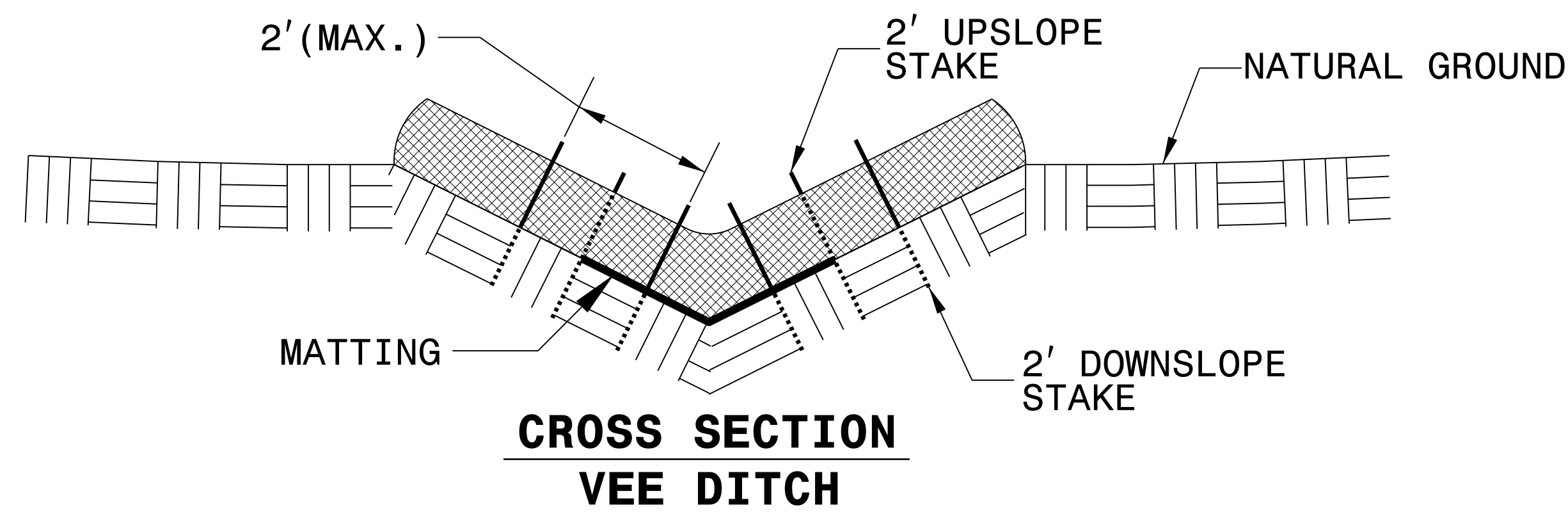
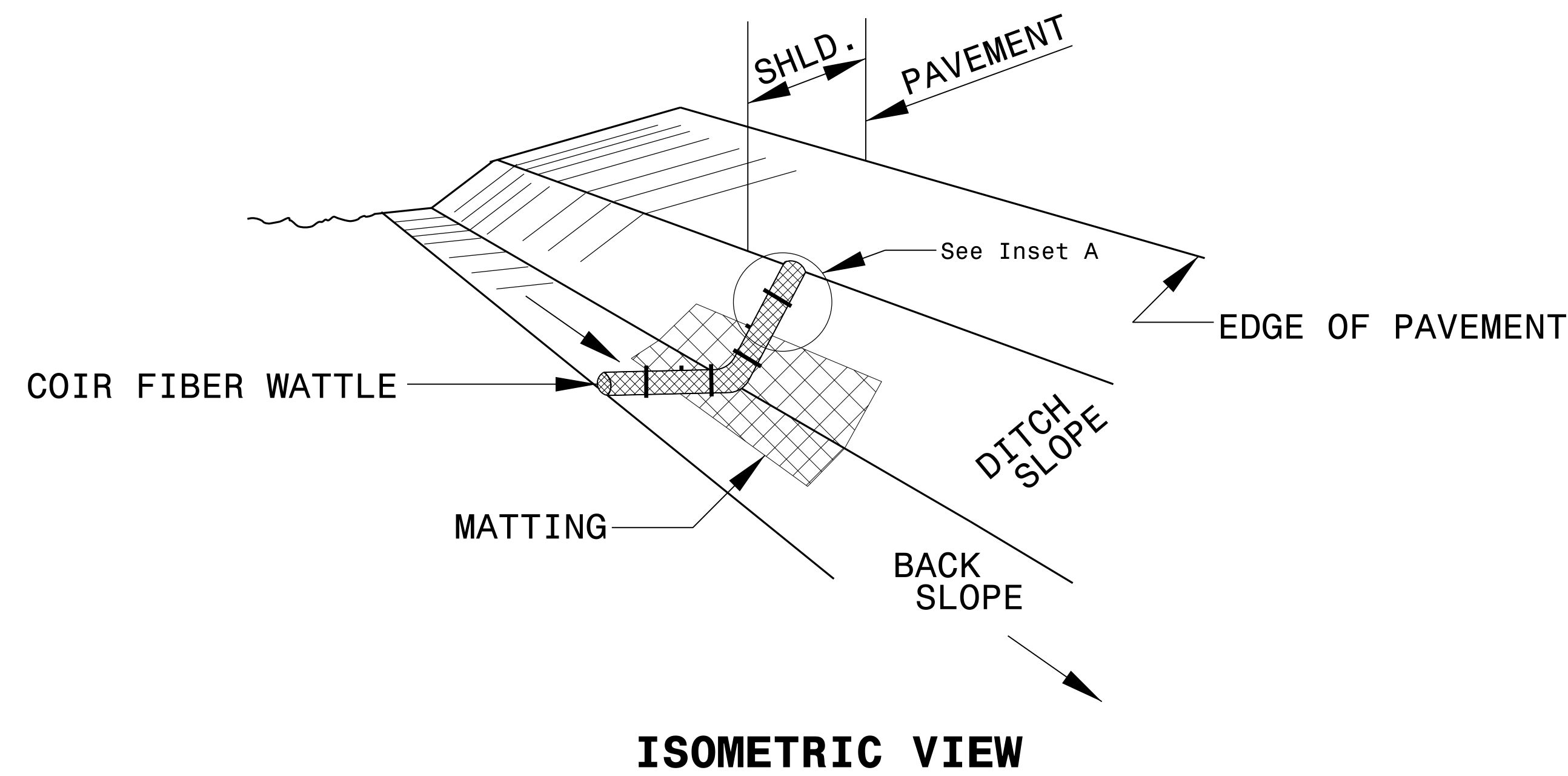
NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
2. INSTALL A MINIMUM OF 3 COIR FIBER BAFFLES IN ACCORDANCE WITH ROADWAY STD. DRAWING 1640.01.
3. INSTALL SKIMMER AND COUPLING TO RISER STRUCTURE OR DIRECTLY INTO EMBANKMENT 1 FT. FROM BOTTOM OF BASIN.
4. THE ARM PIPE SHALL HAVE A MINIMUM LENGTH OF 6 FT. BETWEEN THE SKIMMER AND COUPLING.
5. PLASTIC SLOPE DRAIN PIPE AT INLET OF BASIN MAY BE REPLACED BY FILTRATION GEOTEXTILE AS DIRECTED.
6. THE DIFFERENCE BETWEEN LENGTHS "D" AND "E" REPRESENT THE FREEBOARD AND SHOULD BE 1 FT. MINIMUM.

NOT TO SCALE

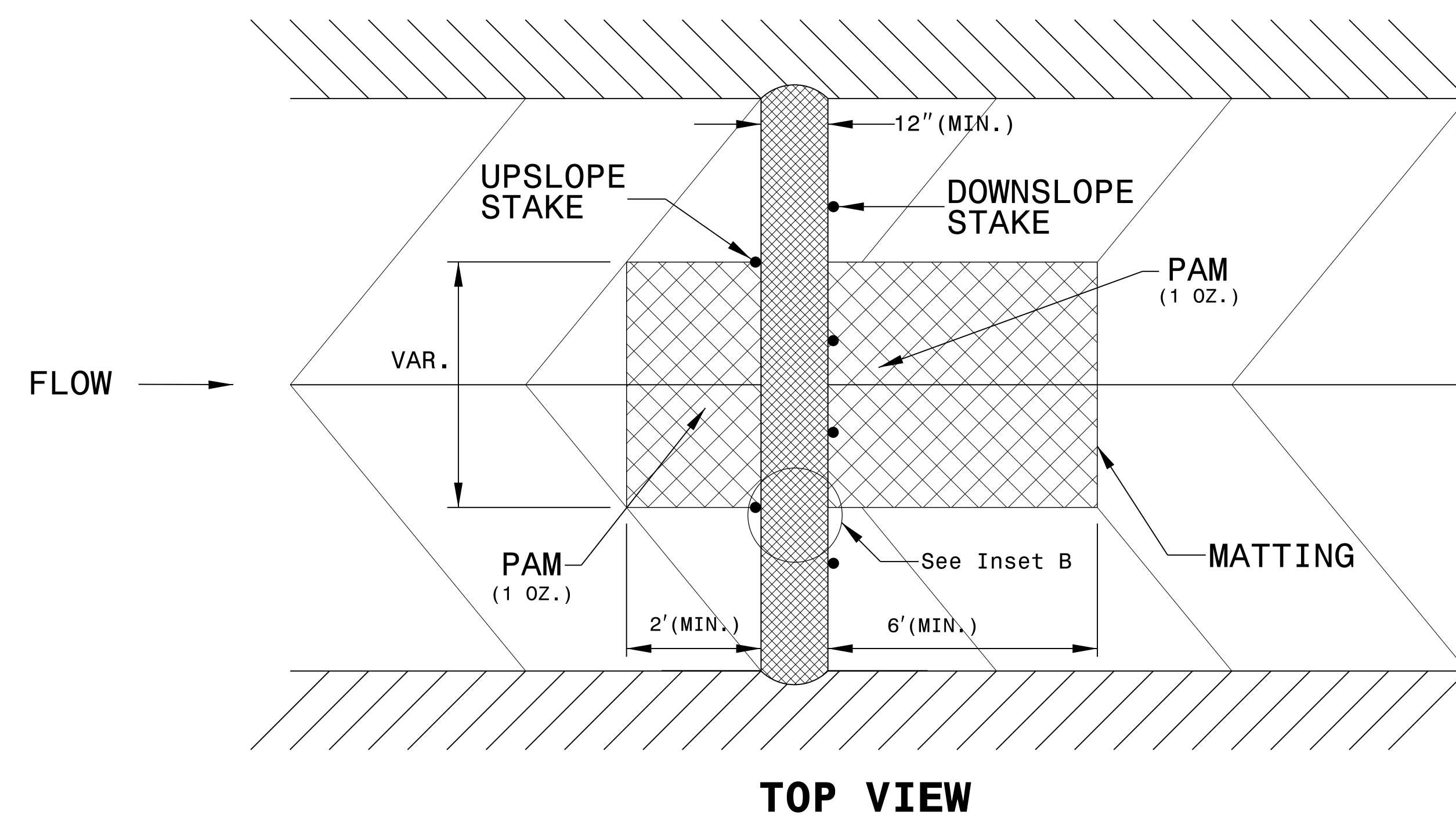
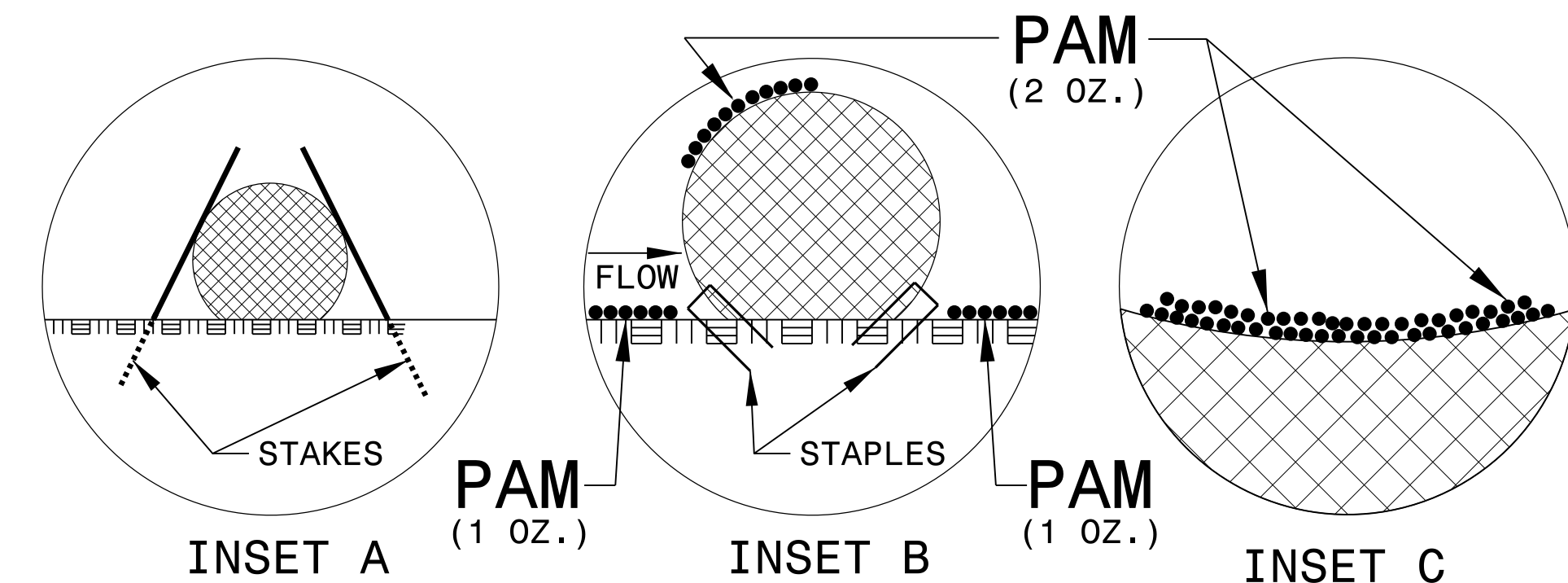
PROJECT REFERENCE NO. K-4908	SHEET NO. EC-2C
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



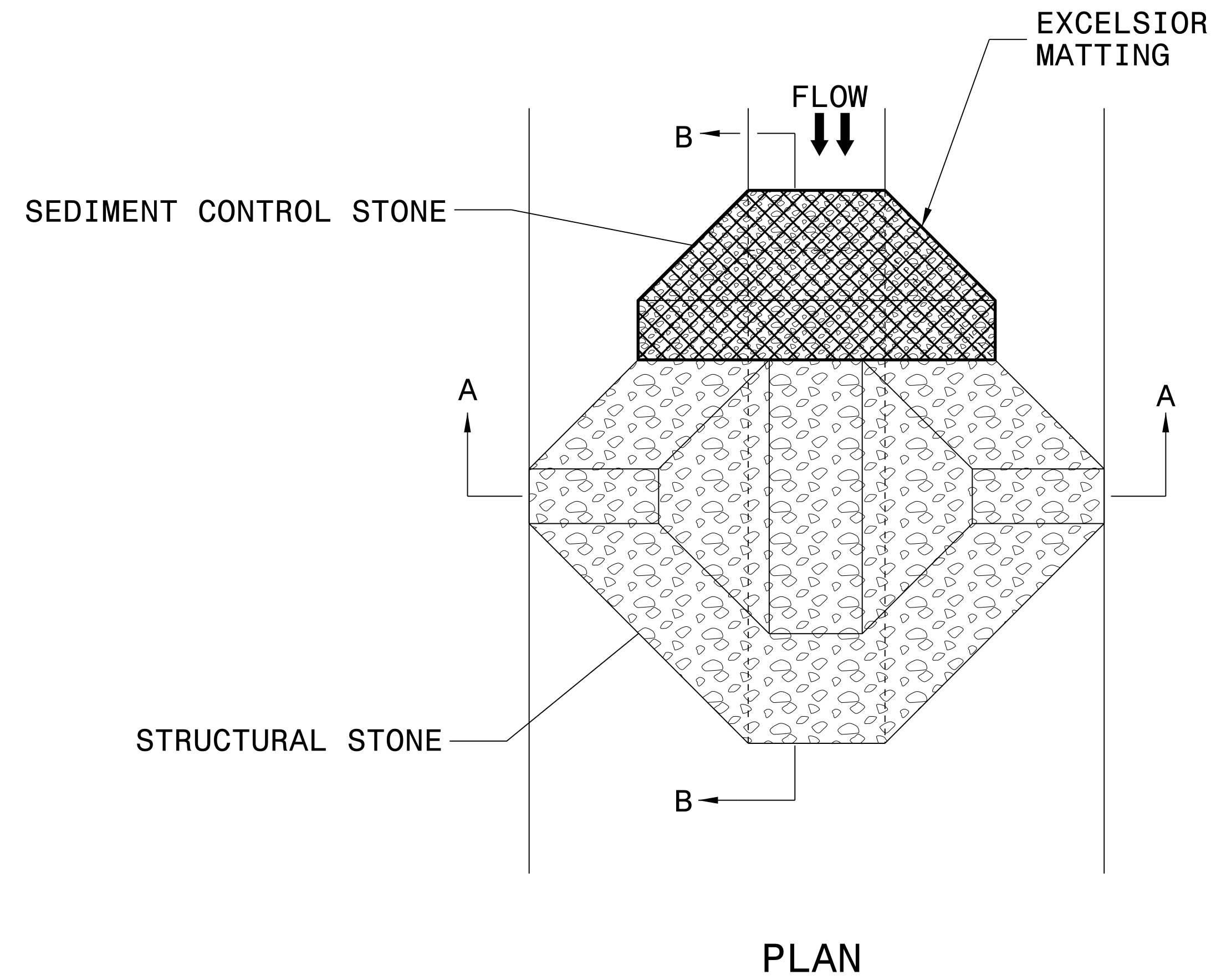
NOTES:

- 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. K-4908	SHEET NO. EC-2D
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



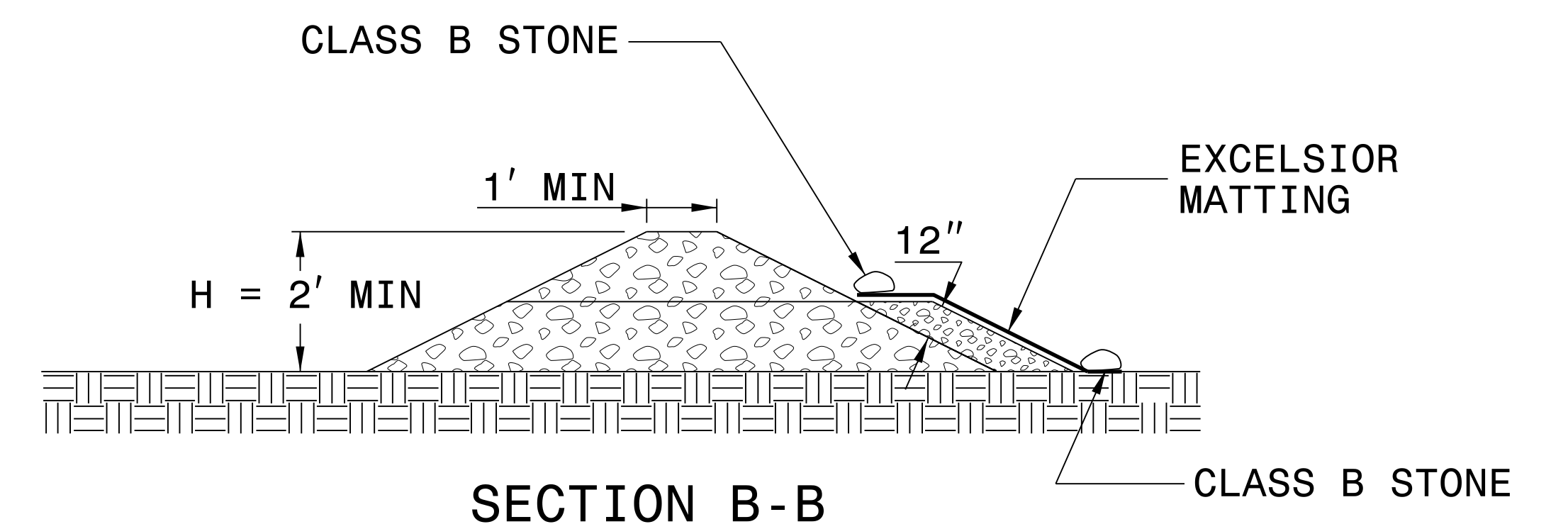
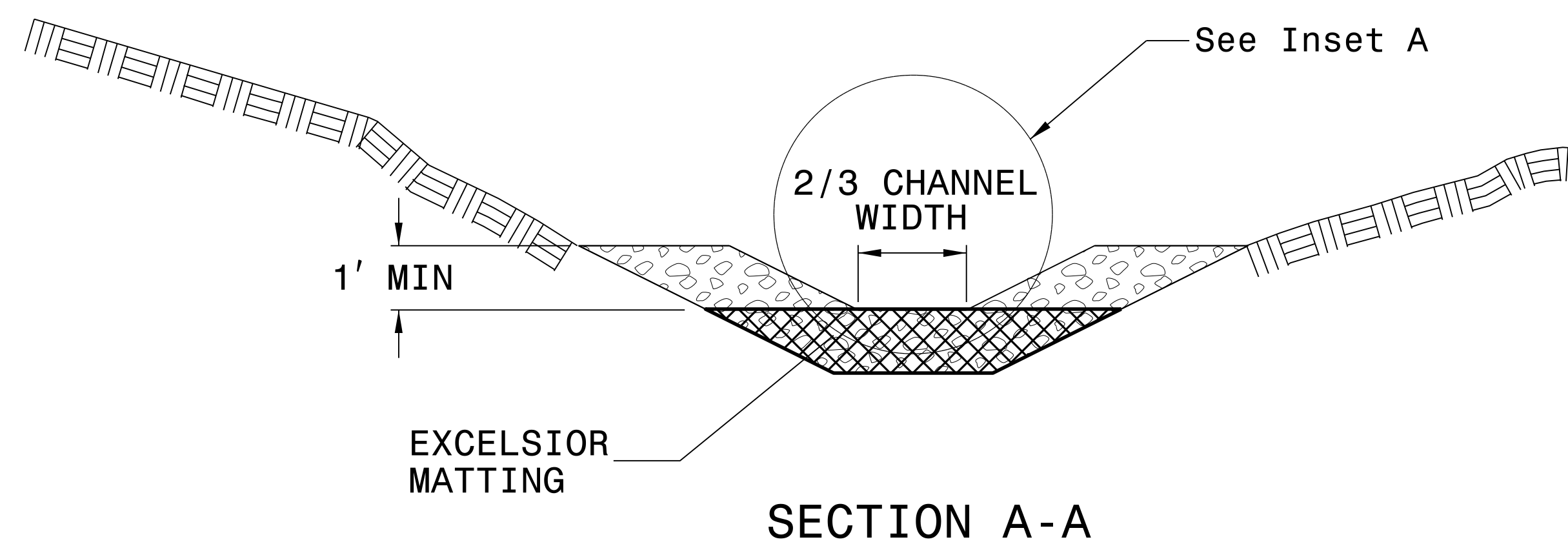
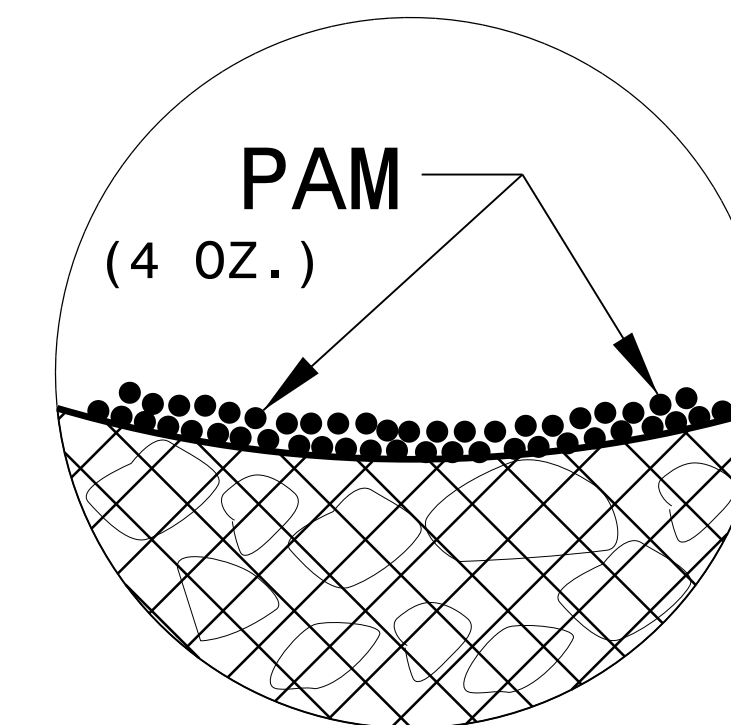
NOTES:

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.



NOT TO SCALE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. <i>K-4908</i>	SHEET NO. <i>EC-3A</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

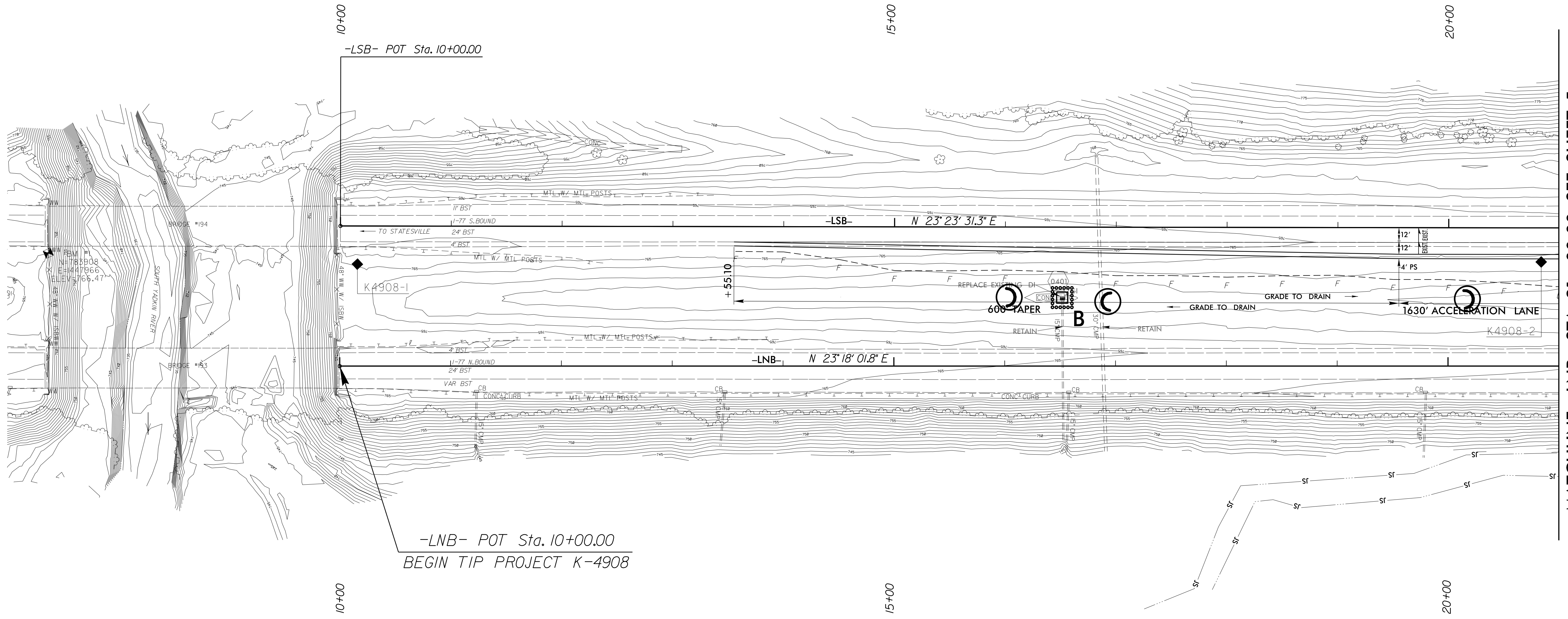
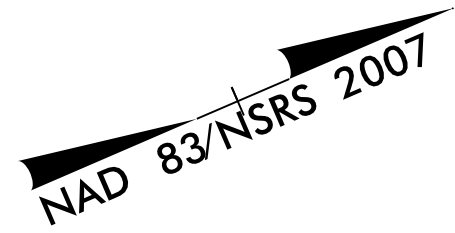
SOIL STABILIZATION TIMEFRAMES

<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.	SHEET NO.
K-4908	EC-04/CONST.04
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.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 04



-LSB- POT Sta. 10+00.00

K4908-1

+55.10

-LNB- POT Sta. 10+00.00
BEGIN TIP PROJECT K-4908

K4908-2

MATCHLINE -LNB- STA. 21+00.00 SEE SHEET 5

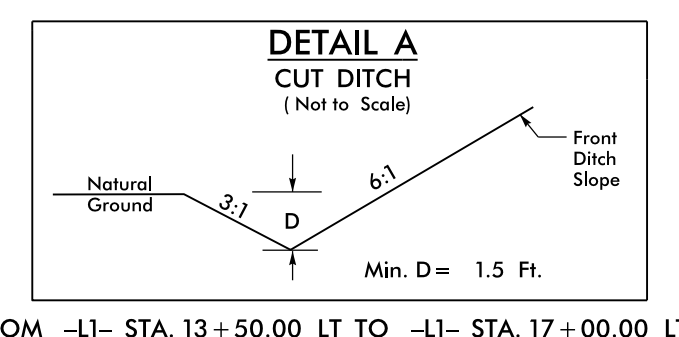
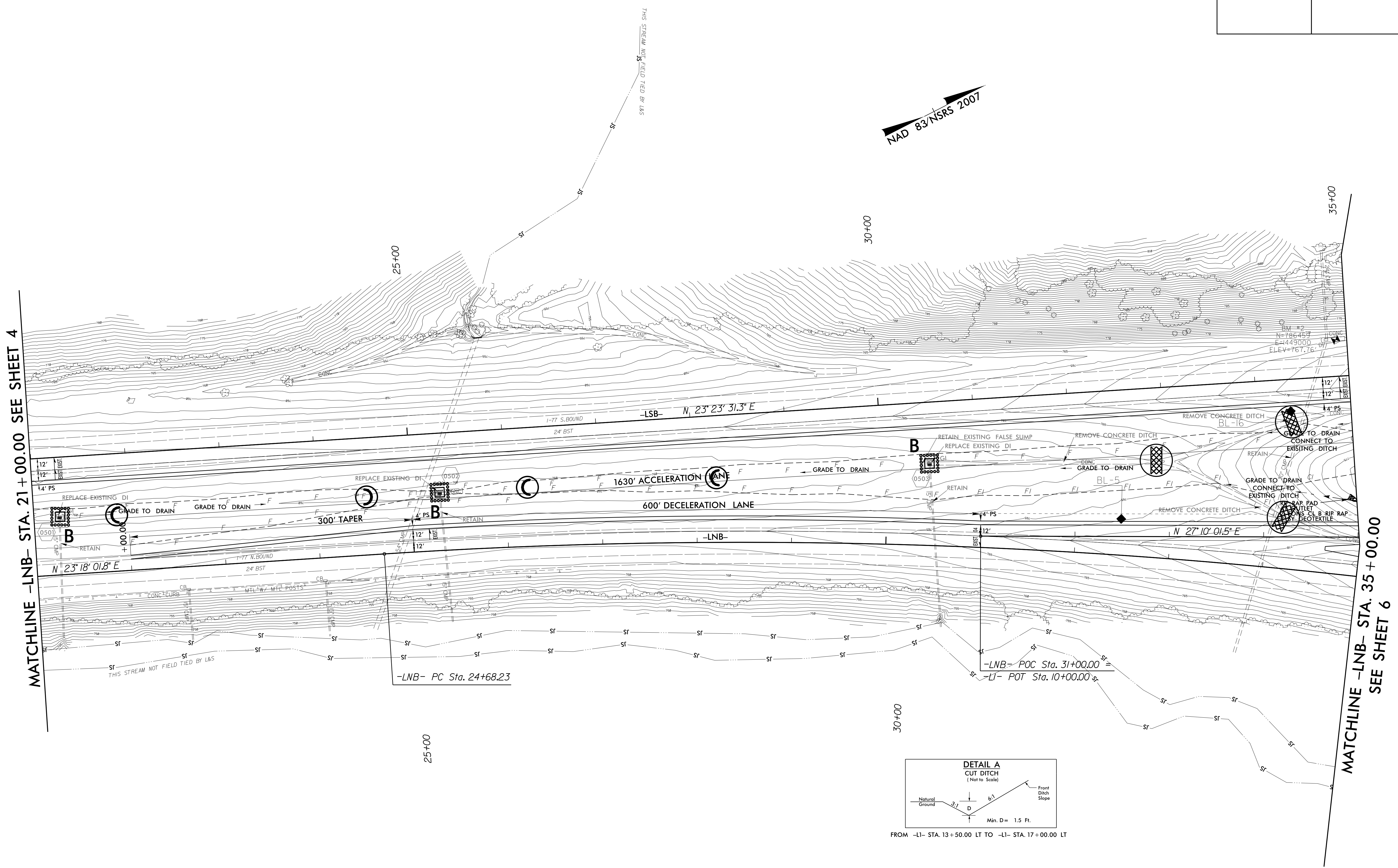
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PROJECT REFERENCE NO.	SHEET NO.
K-4908	EC-05/CONST.05
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 05



FROM -L1- STA. 13+50.00 LT TO -L1- STA. 17+00.00 LT

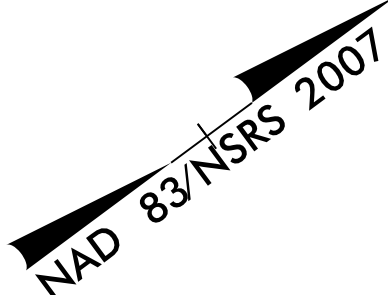
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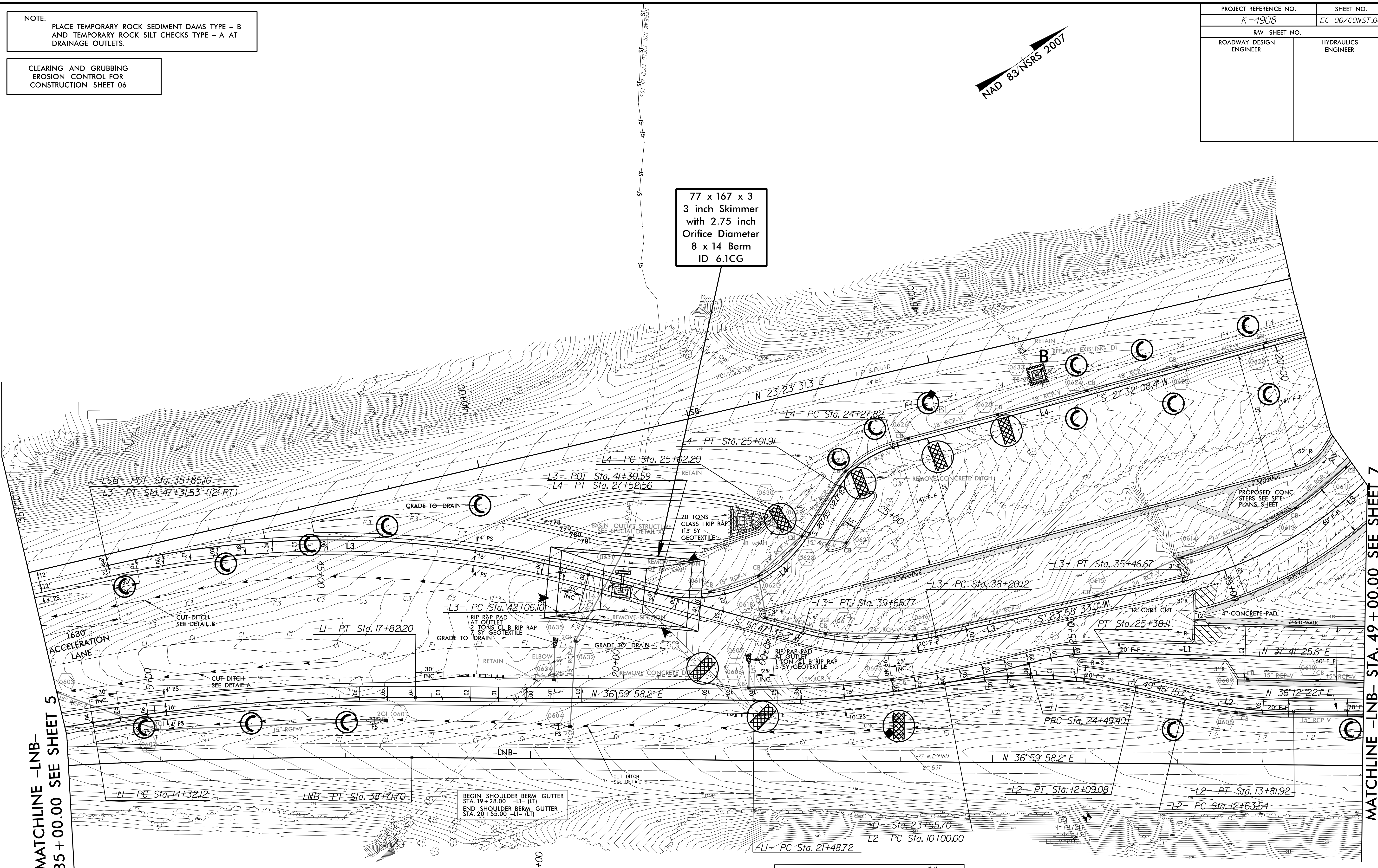
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K-4908	EC-06/CONST.06
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 06

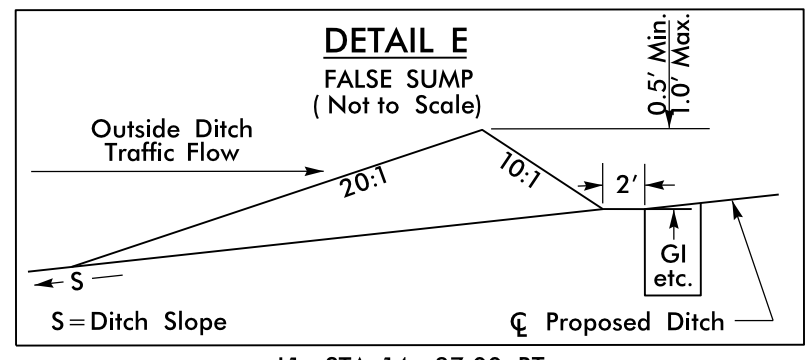
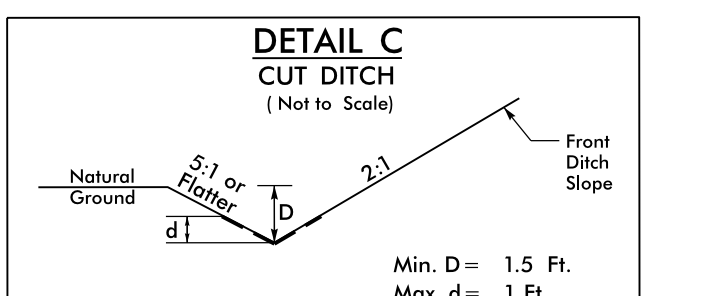
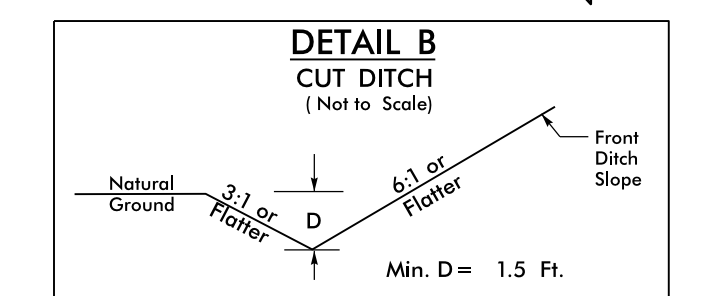
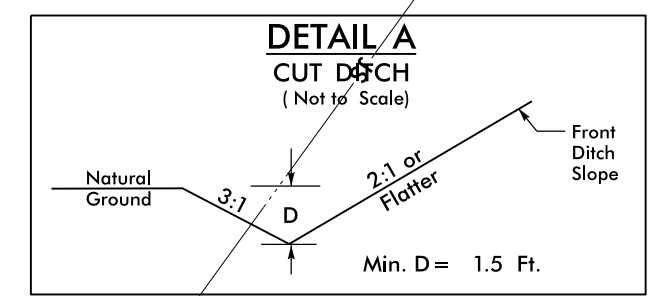


77 x 167 x 3
3 inch Skimmer
with 2.75 inch
Orifice Diameter
8 x 14 Berm
ID 6.1CG



MATCHLINE -LNB-
STA. 35 + 00.00 SEE SHEET 5

MATCHLINE -LNB- STA. 49 + 00.00 SEE SHEET 7



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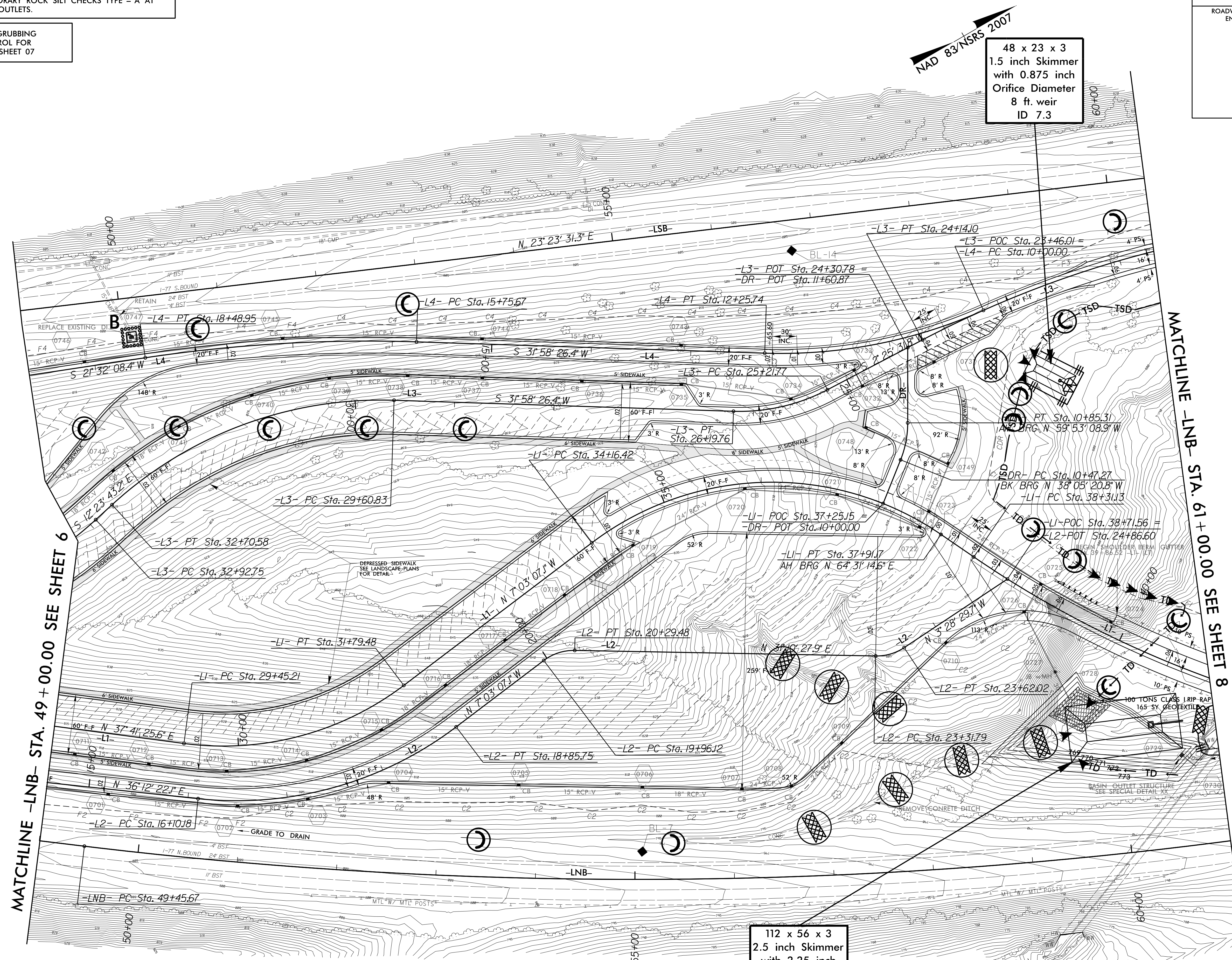
PROJECT REFERENCE NO.	SHEET NO.
K-4908	EC-07/CONST.07
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 07

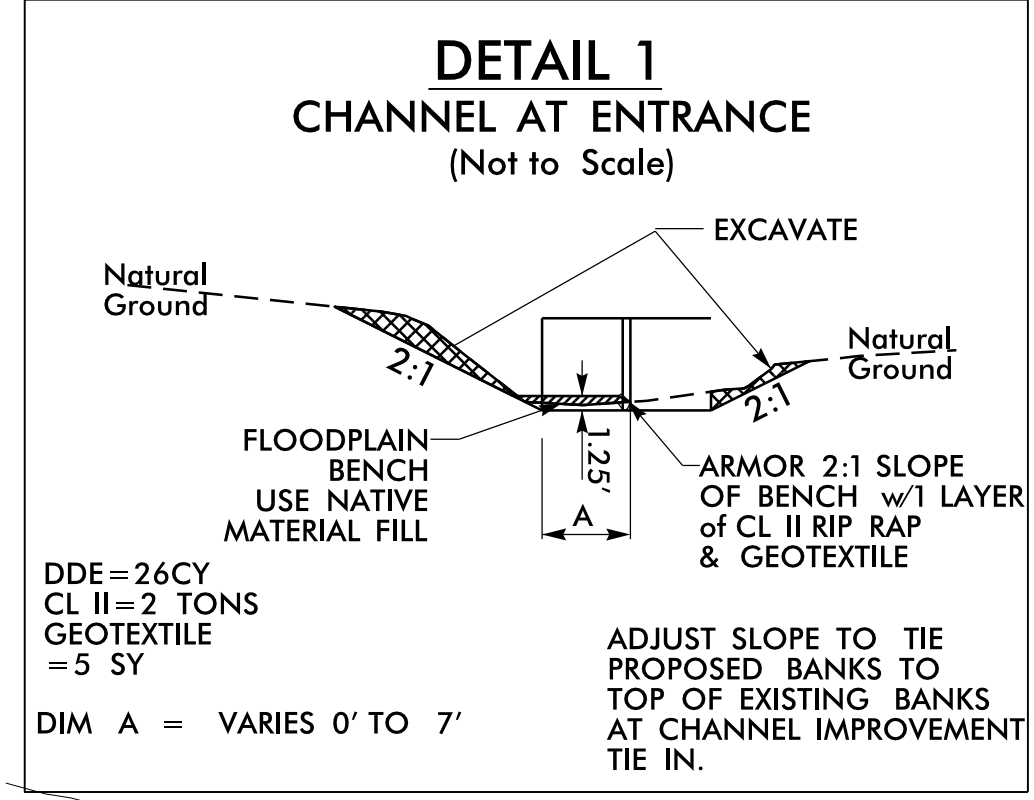
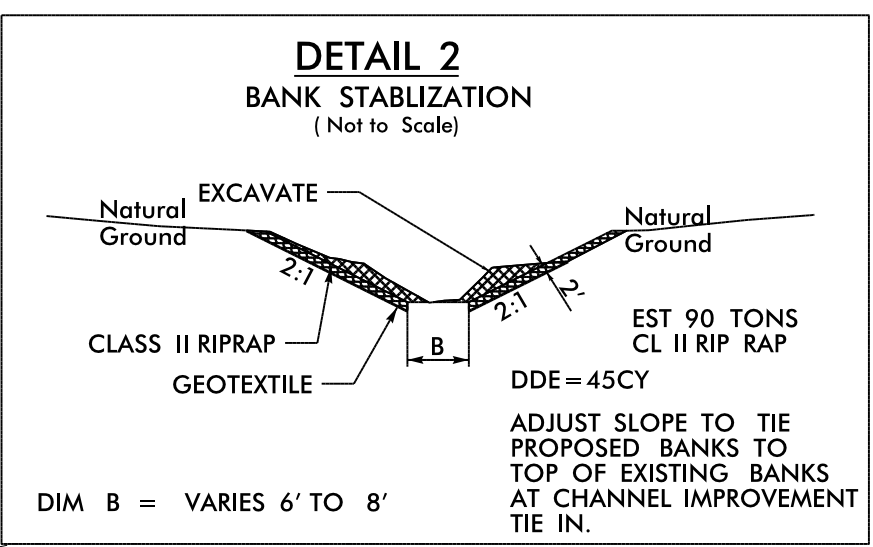
48 x 23 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
8 ft. weir
ID 7.3

112 x 56 x 3
2.5 inch Skimmer
with 2.25 inch
Orifice Diameter
48 ft. weir
ID 7.1 CG



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PROJECT REFERENCE NO.	SHEET NO.
K-4908	EC-08/CONST.08
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



23 x 46 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
8 ft. weir
ID 8.2

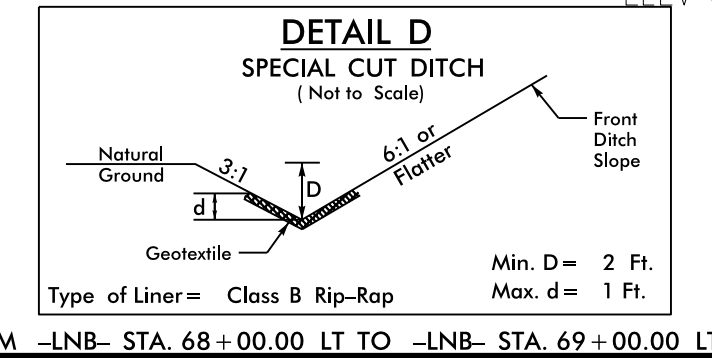
50 x 24 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
7 ft. weir
ID 8.1

Modified Silt Basin
Type 'B'
36 x 24 x 3
13 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 8.5

36 x 24 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
13 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 8.5

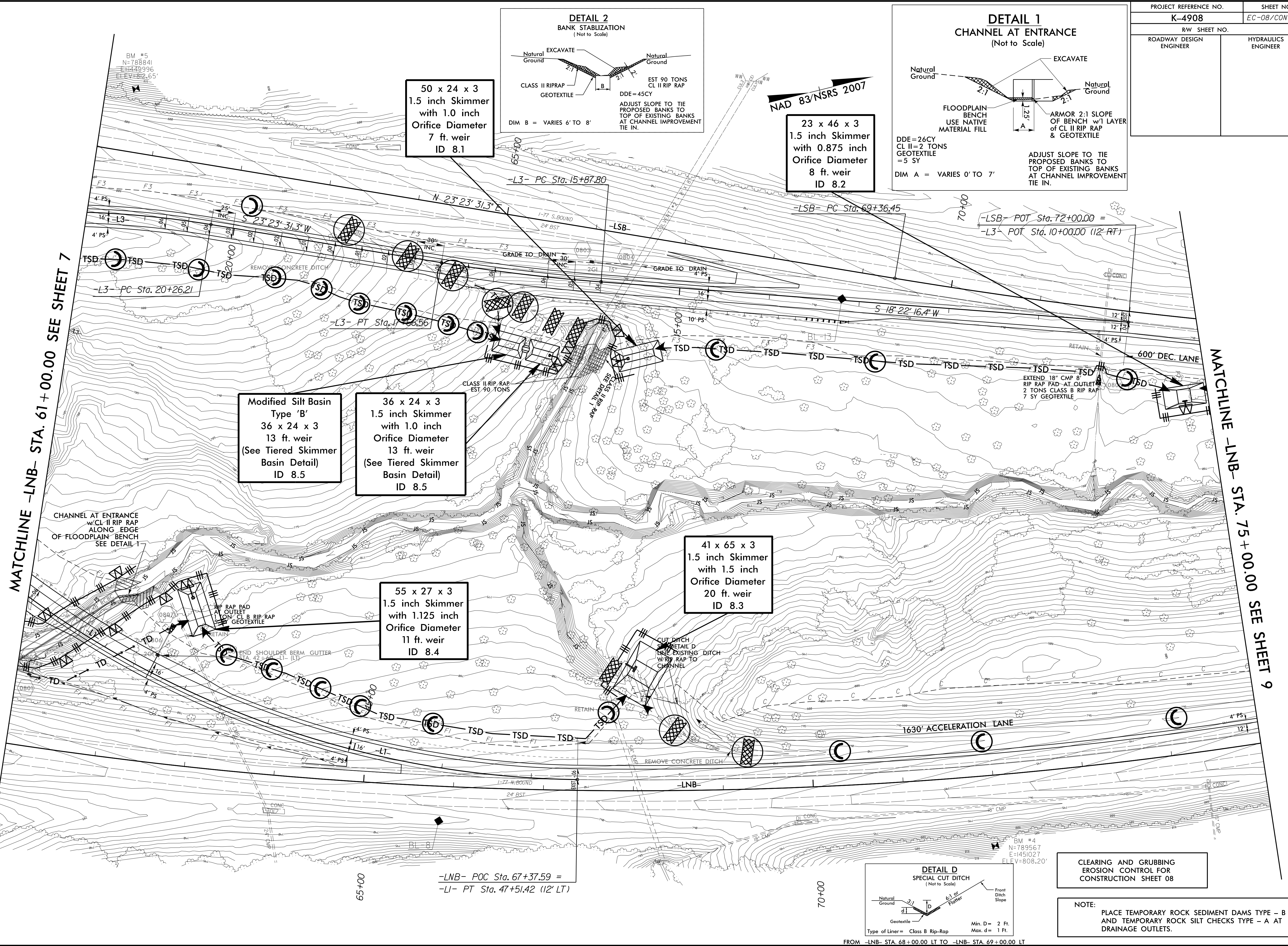
55 x 27 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
11 ft. weir
ID 8.4

41 x 65 x 3
1.5 inch Skimmer
with 1.5 inch
Orifice Diameter
20 ft. weir
ID 8.3



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 08

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



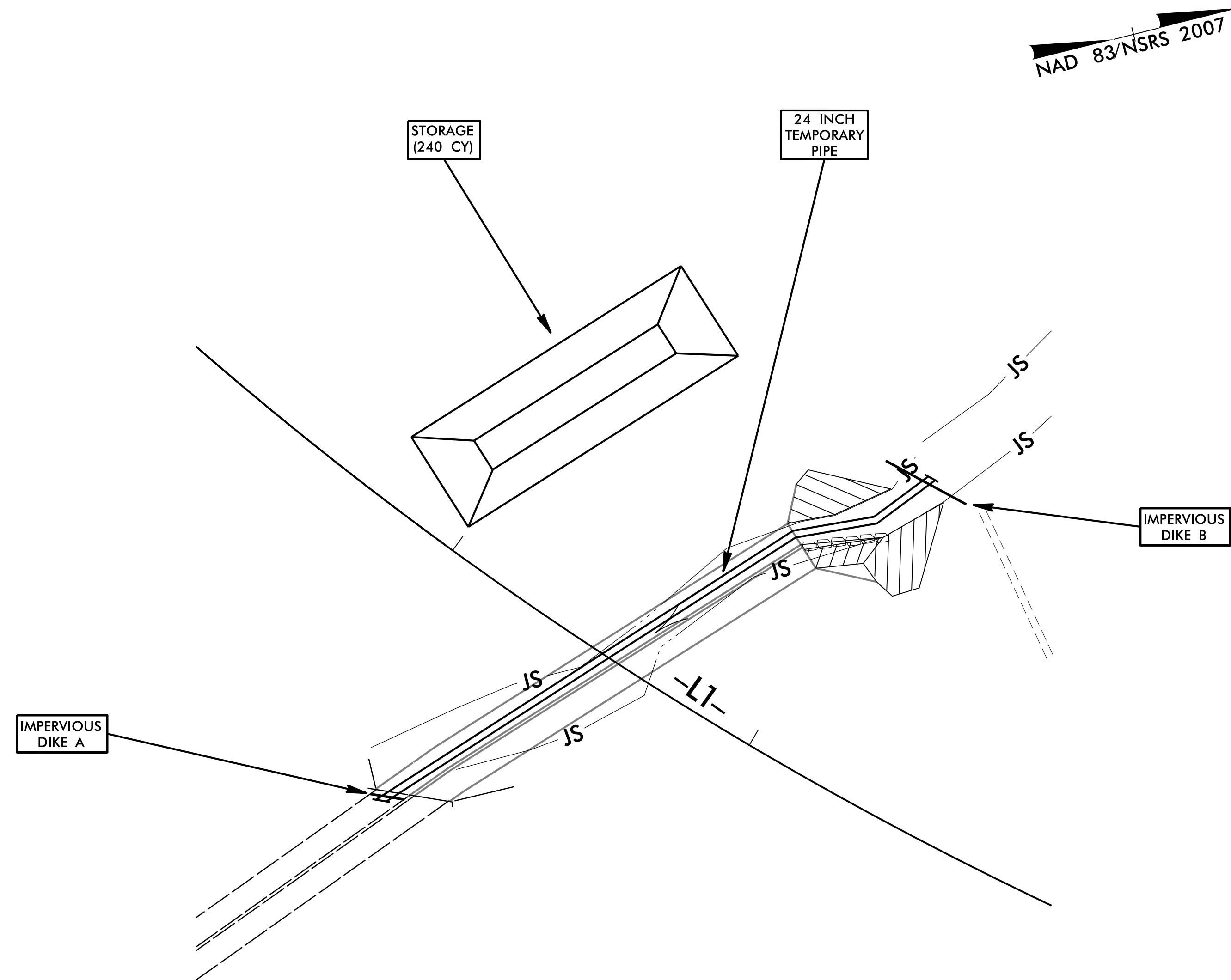
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REVISIONS: 1
BY: JLD
DATE: 1/13/15

PROJECT REFERENCE NO.	SHEET NO.
K-4908	EC-09/CONST.08
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 41+56.10 -L1-

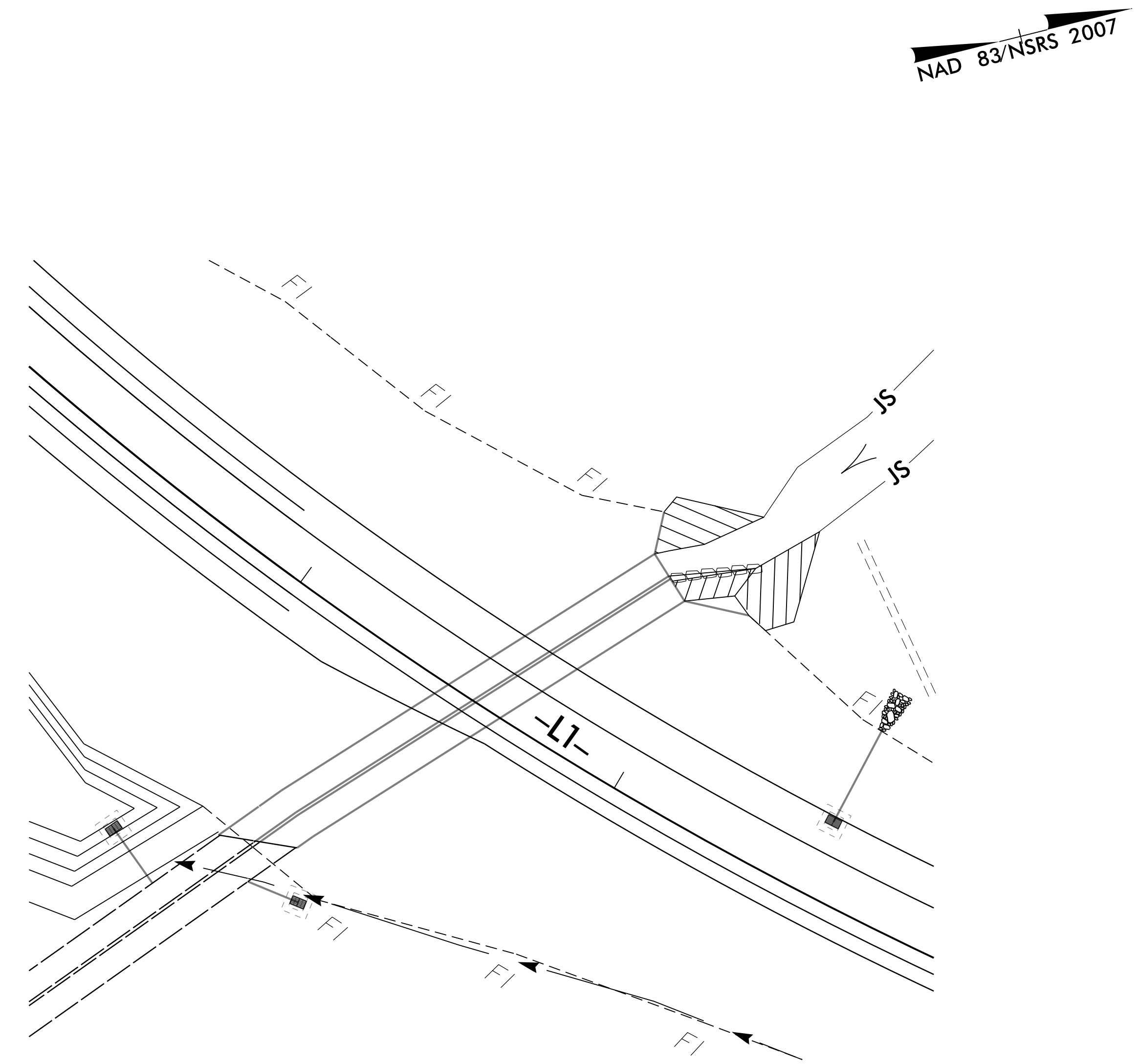
PHASE I

1. CONSTRUCT STILLING BASIN (240 CY).
2. CONSTRUCT IMPERVIOUS DIKES A AND B, AND INSTALL 24 INCH TEMPORARY PIPE, DIVERTING FLOW.
3. CONSTRUCT PROPOSED CULVERT EXTENSION, FLOODPLAIN BENCH, AND INLET CHANNEL IMPROVEMENTS.



PHASE II

4. REMOVE IMPERVIOUS DIKES A AND B, AND 24 INCH TEMPORARY PIPE, ALLOWING NORMAL FLOW THROUGH CULVERT.
5. REMOVE STILLING BASIN.
6. COMPLETE ROADWAY.



PROJECT REFERENCE NO. <i>K-4908</i>	SHEET NO. <i>EC-10/CONST.08</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

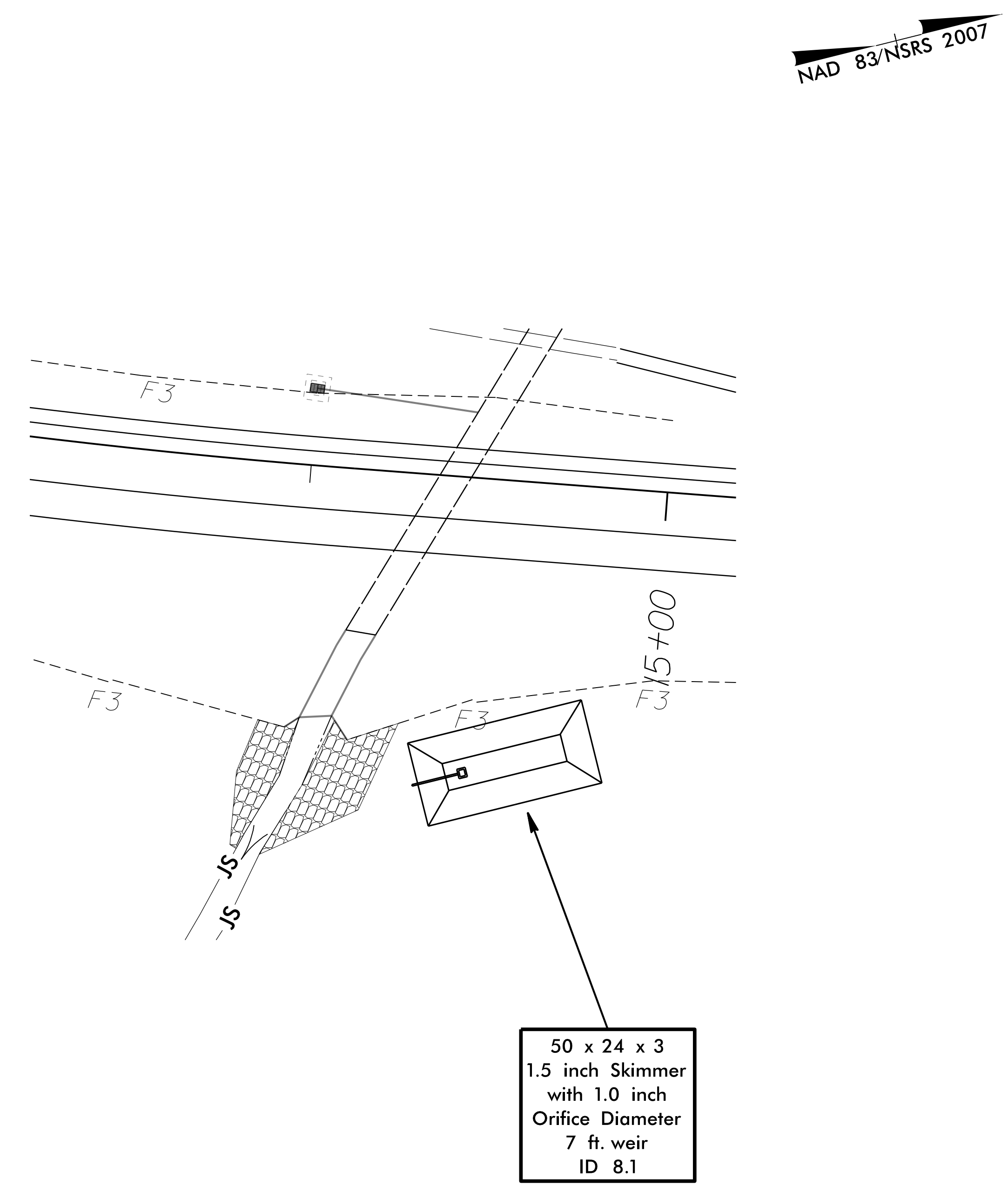
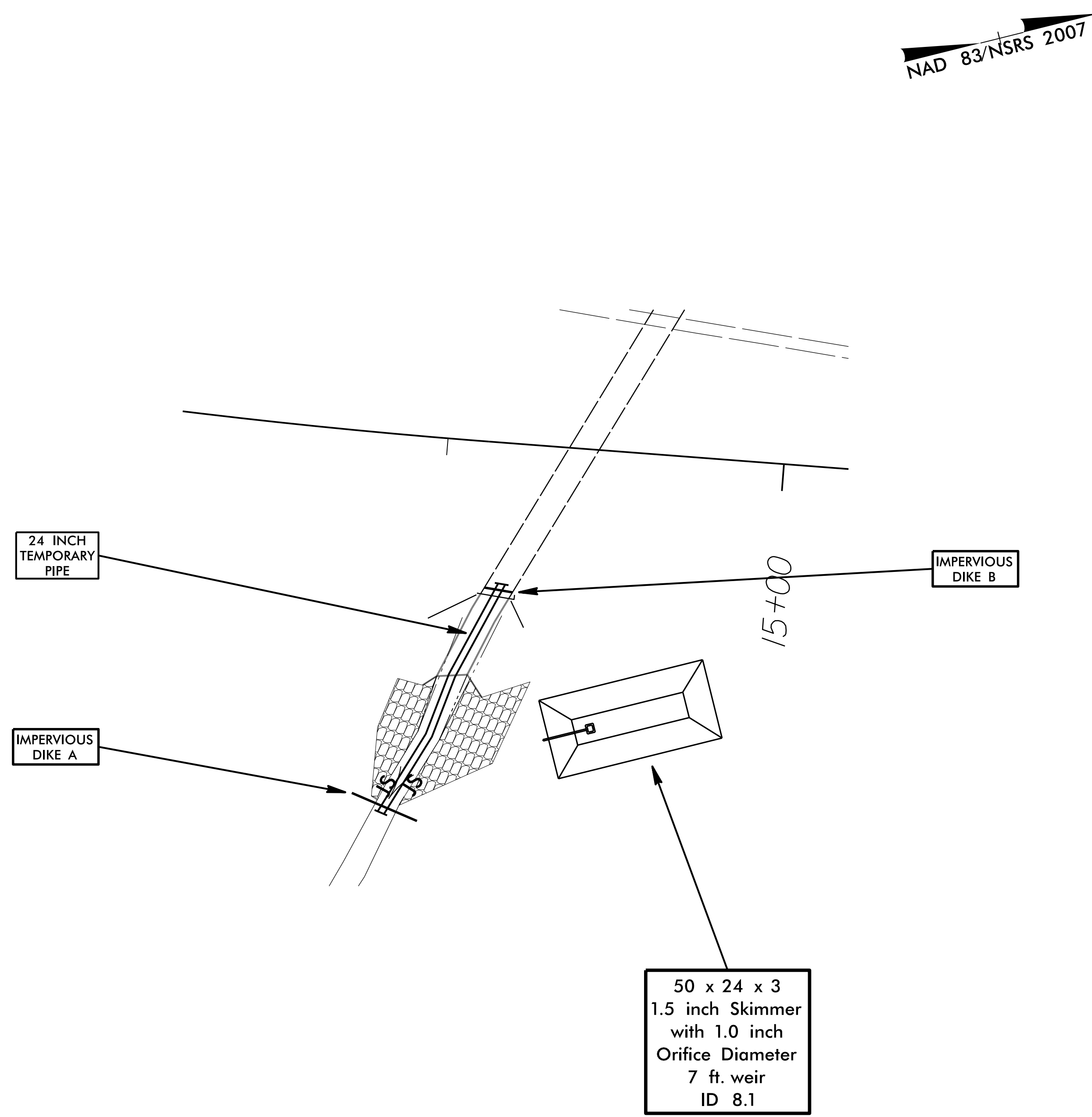
CULVERT CONSTRUCTION SEQUENCE STA. 15+59.42 -L3-

PHASE I

PHASE II

1. UTILIZE SKIMMER BASIN 8.1 AS STILLING BASIN.
2. CONSTRUCT IMPERVIOUS DIKES A AND B, AND INSTALL 24 INCH TEMPORARY PIPE, DIVERTING FLOW.
3. CONSTRUCT PROPOSED CULVERT EXTENSION AND OUTLET CHANNEL IMPROVEMENTS.

4. REMOVE IMPERVIOUS DIKES A AND B, AND 24 INCH TEMPORARY PIPE, ALLOWING NORMAL FLOW THROUGH CULVERT.
5. RETAIN SKIMMER BASIN 8.1 FOR ROADWAY CONSTRUCTION.
6. COMPLETE ROADWAY.

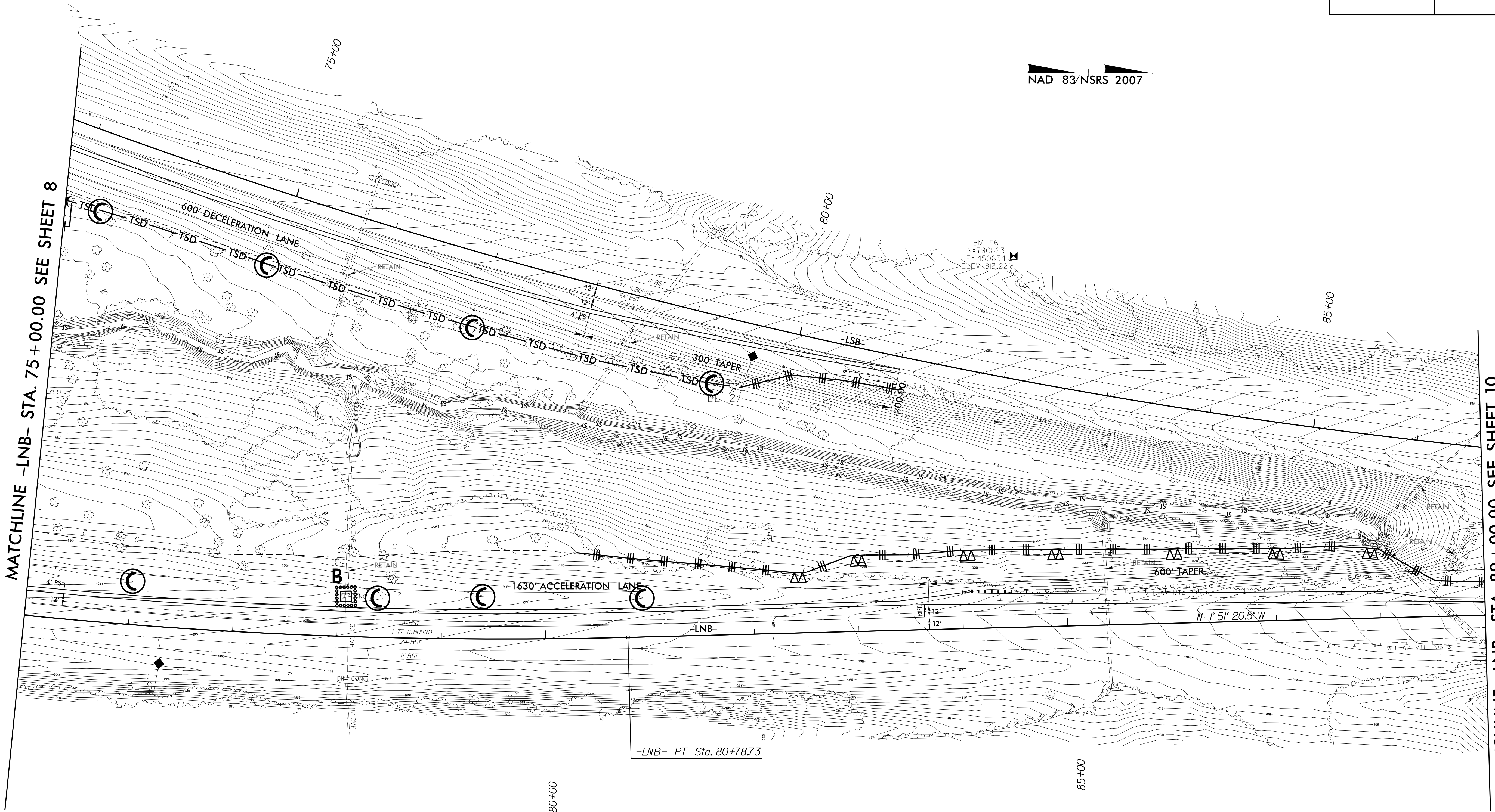


PROJECT REFERENCE NO.	SHEET NO.
K-4908	EC-II/CONST.09
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 09

NAD 83/NSRS 2007



MATCHLINE -LNB- STA. 75 + 00.00 SEE SHEET 8

MATCHLINE -LNB- STA. 89 + 00.00 SEE SHEET 10

-LNB- PT Sta. 80+78.73

96 JAN 2015 11:27
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REN727413

8/17/99

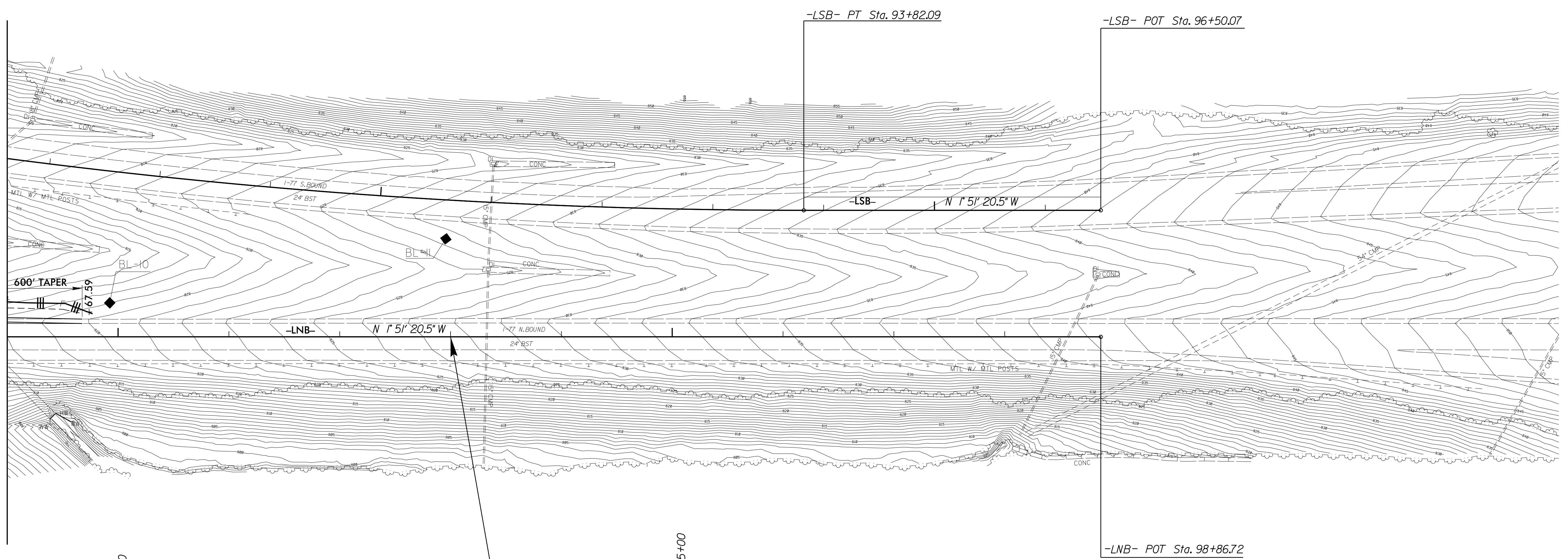
PROJECT REFERENCE NO.	SHEET NO.
K-4908	EC-12/CONST.10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 10

NAD 83/NSRS 2007

MATCHLINE -LNB- STA. 89 + 00.00 SEE SHEET 9

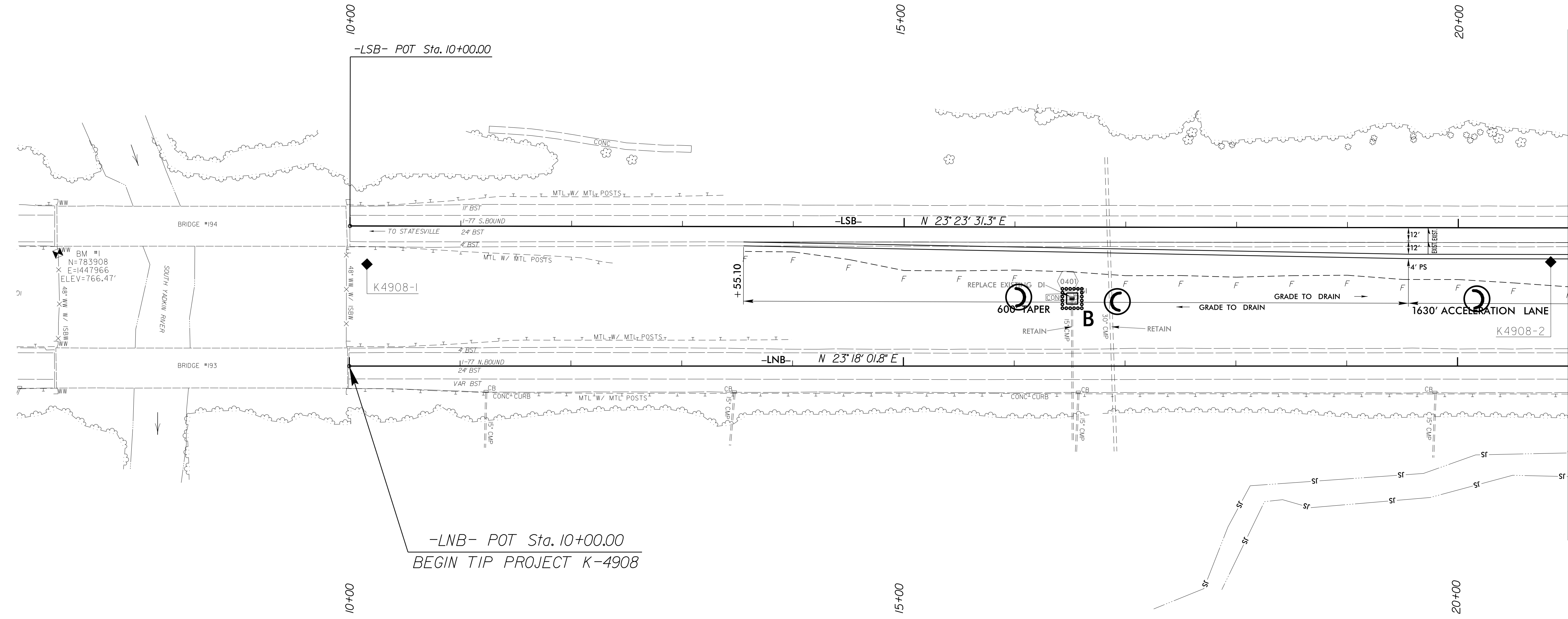
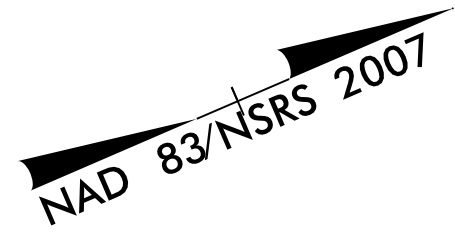


END TIP PROJECT K-4908
-LNB- Sta. 93+00.00

8/17/99

96 JAN 2015 11:35
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jmc

PROJECT REFERENCE NO.	SHEET NO.
K-4908	EC-13/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCHLINE -LNB- STA. 21+00.00 SEE SHEET 5

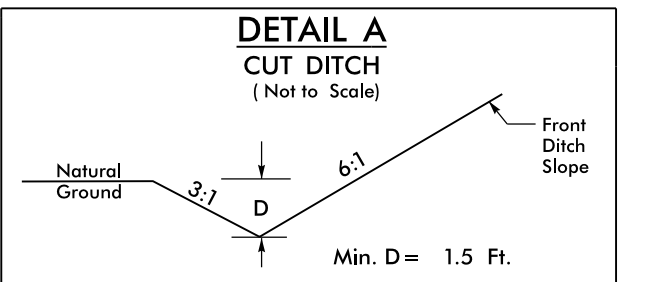
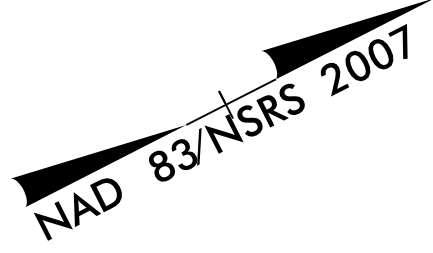
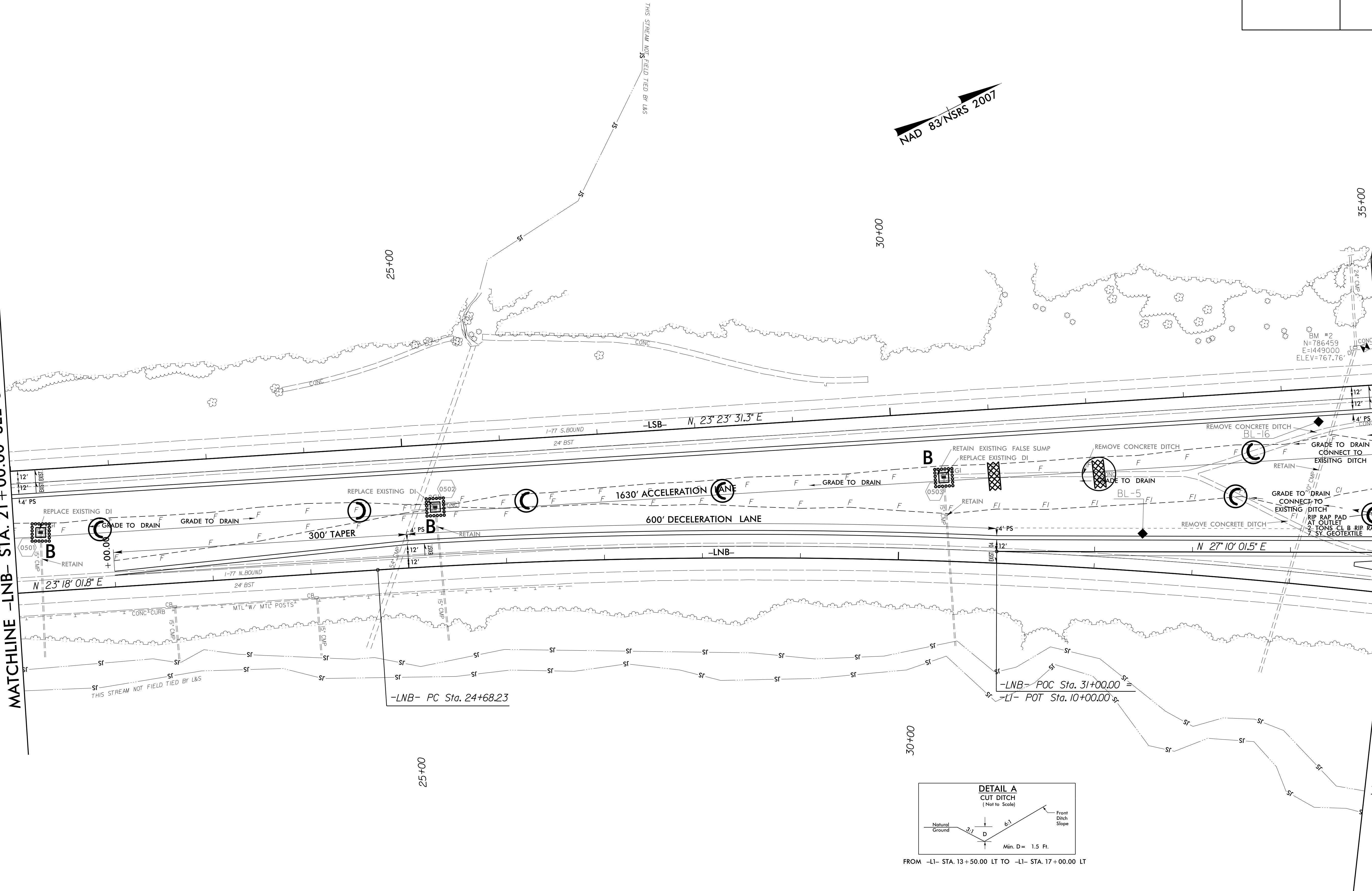
-LNB- POT Sta. 10+00.00
BEGIN TIP PROJECT K-4908

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
K-4908	EC-14/CONST.05
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

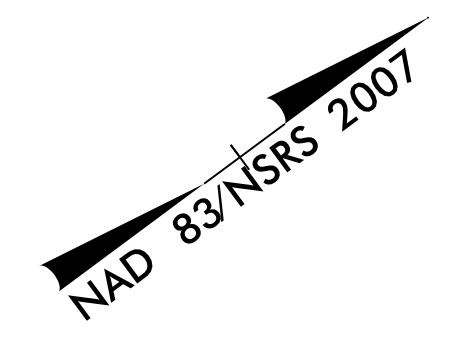
MATCHLINE -LNB- STA. 21+00.00 SEE SHEET 4



FROM -L1- STA. 13+50.00 LT TO -L1- STA. 17+00.00 LT

MATCHLINE -LNB- STA. 35+00.00
SEE SHEET 6

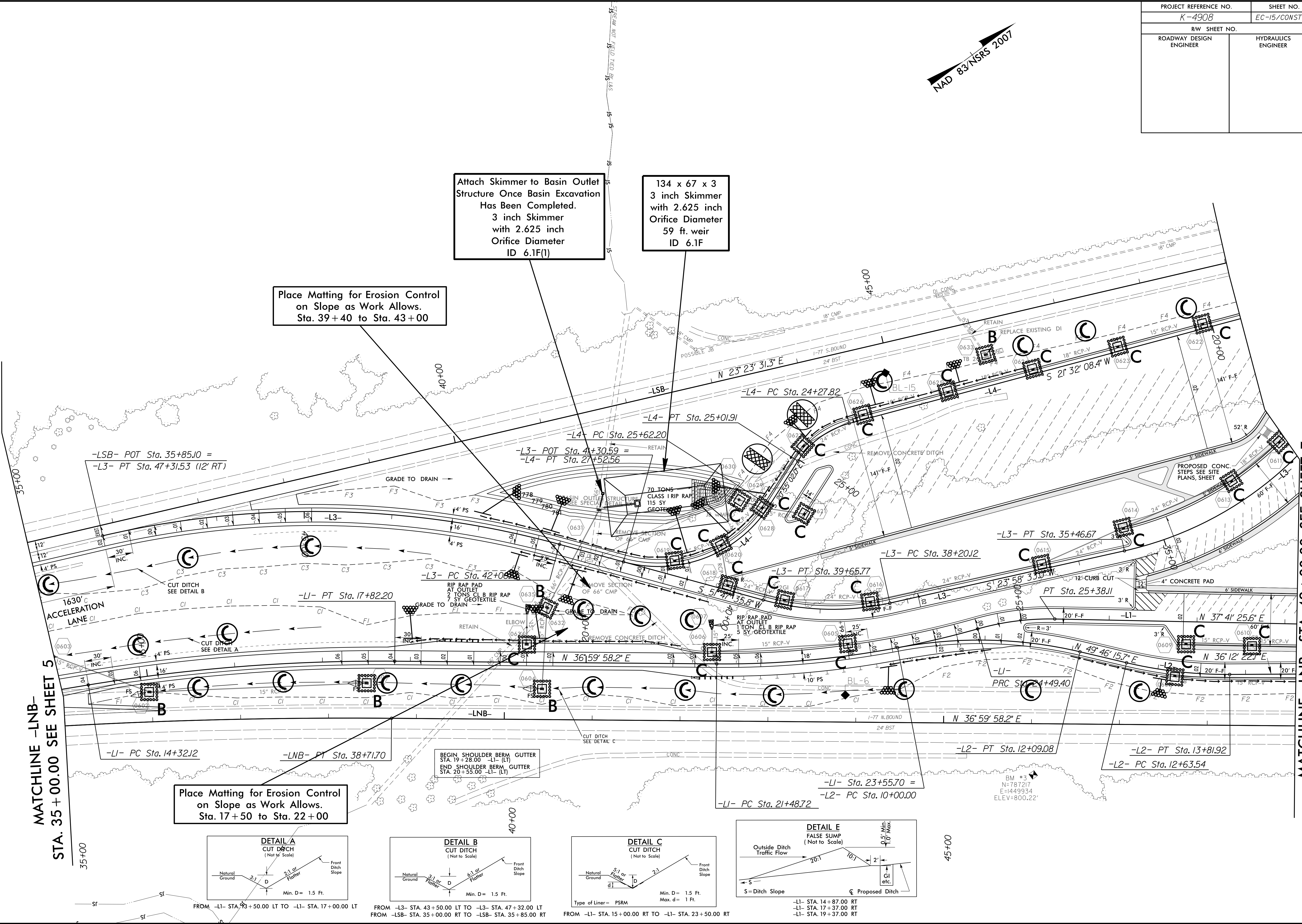
PROJECT REFERENCE NO. K-4908	SHEET NO. EC-15/CONST.06
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



8/17/99

MATCHLINE -LNB- STA. 35+00.00 SEE SHEET 5

MATCHLINE -LNB- STA. 49+00.00 SEE SHEET 7

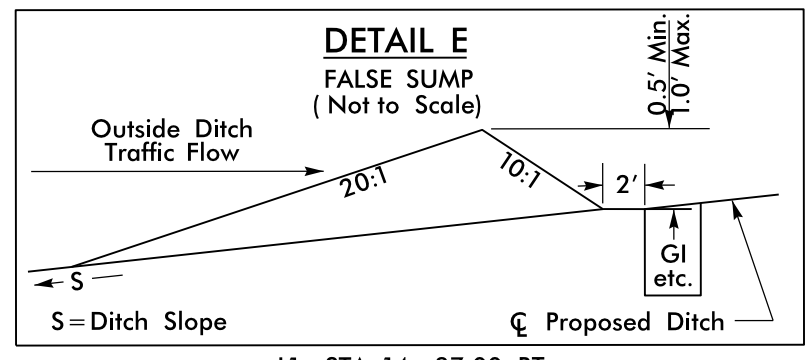
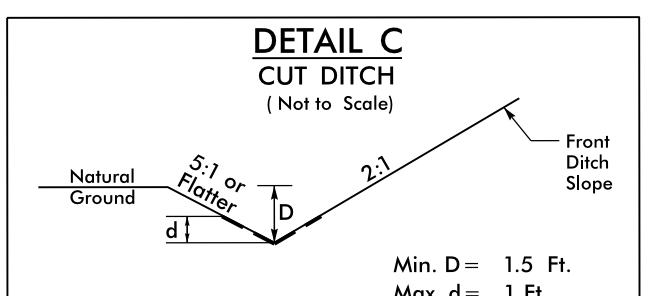
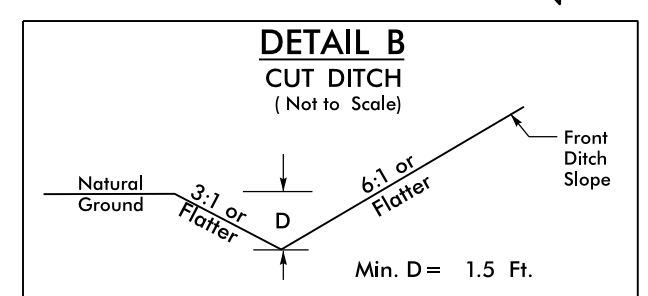
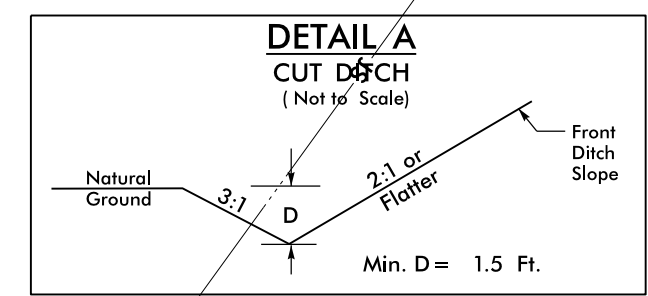


Attach Skimmer to Basin Outlet Structure Once Basin Excavation Has Been Completed.
3 inch Skimmer with 2.625 inch Orifice Diameter ID 6.1F(1)

134 x 67 x 3
3 inch Skimmer with 2.625 inch Orifice Diameter
59 ft. weir
ID 6.1F

Place Matting for Erosion Control on Slope as Work Allows.
Sta. 39+40 to Sta. 43+00

Place Matting for Erosion Control on Slope as Work Allows.
Sta. 17+50 to Sta. 22+00



9/6 JAN-2015 10:55 D:\projects\k-4908.ec-psrh6.dgn

PROJECT REFERENCE NO.	SHEET NO.
K-4908	EC-16/CONST.07
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

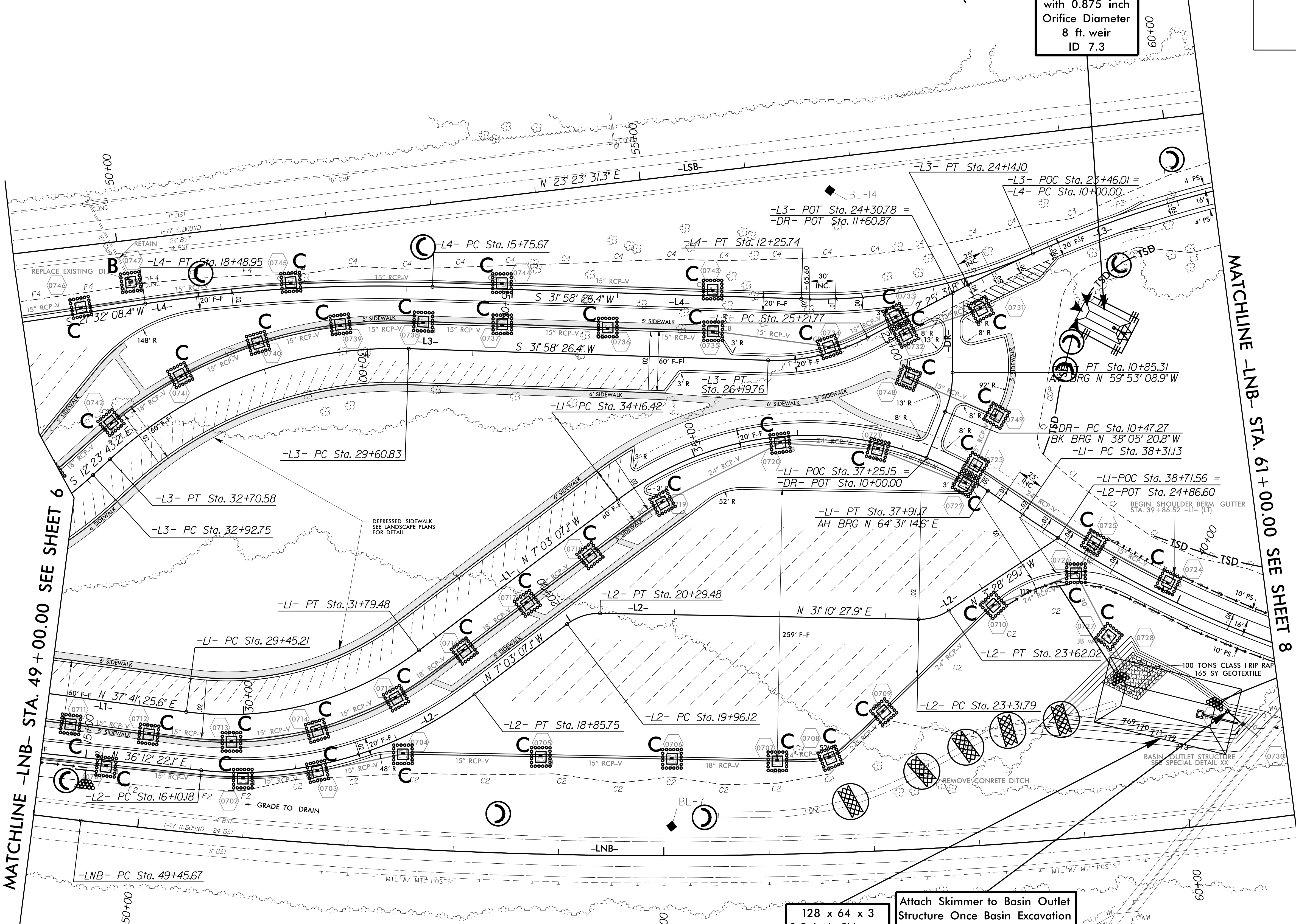
48 x 23 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
8 ft. weir
ID 7.3

128 x 64 x 3
2.5 inch Skimmer
with 2.5 inch
Orifice Diameter
56 ft. weir
ID 7.1F

Attach Skimmer to Basin Outlet
Structure Once Basin Excavation
Has Been Completed.
2.5 inch Skimmer
with 2.50 inch
Orifice Diameter
ID 7.1F(1)

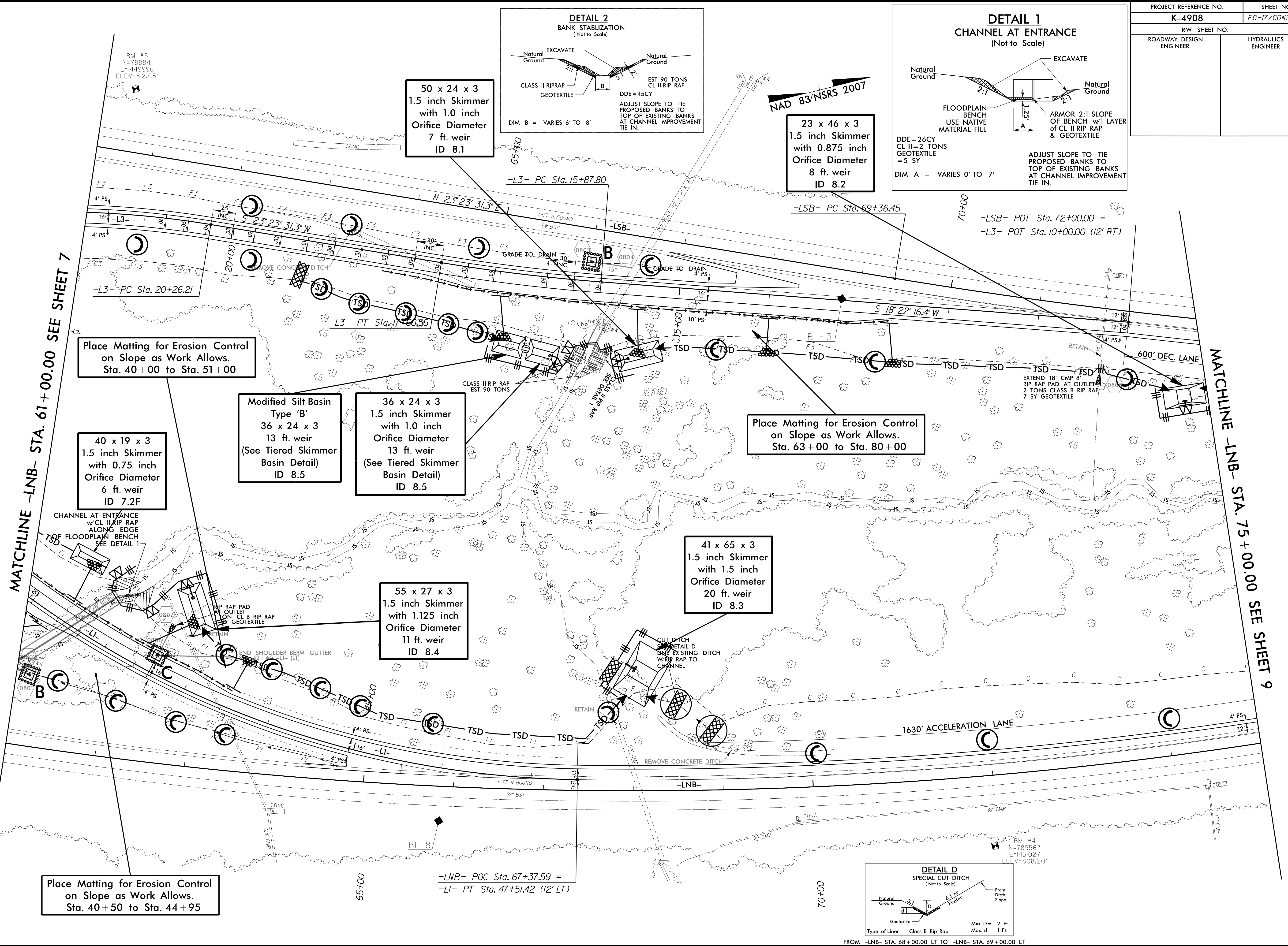
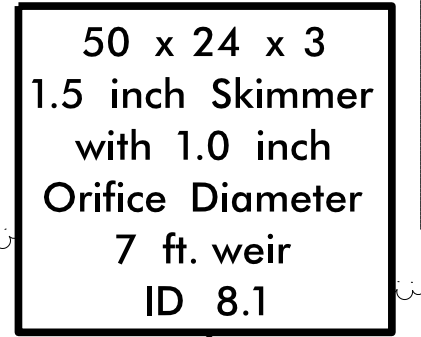
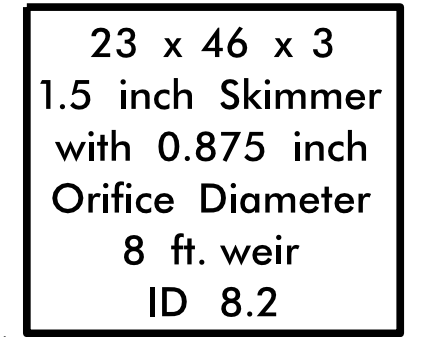
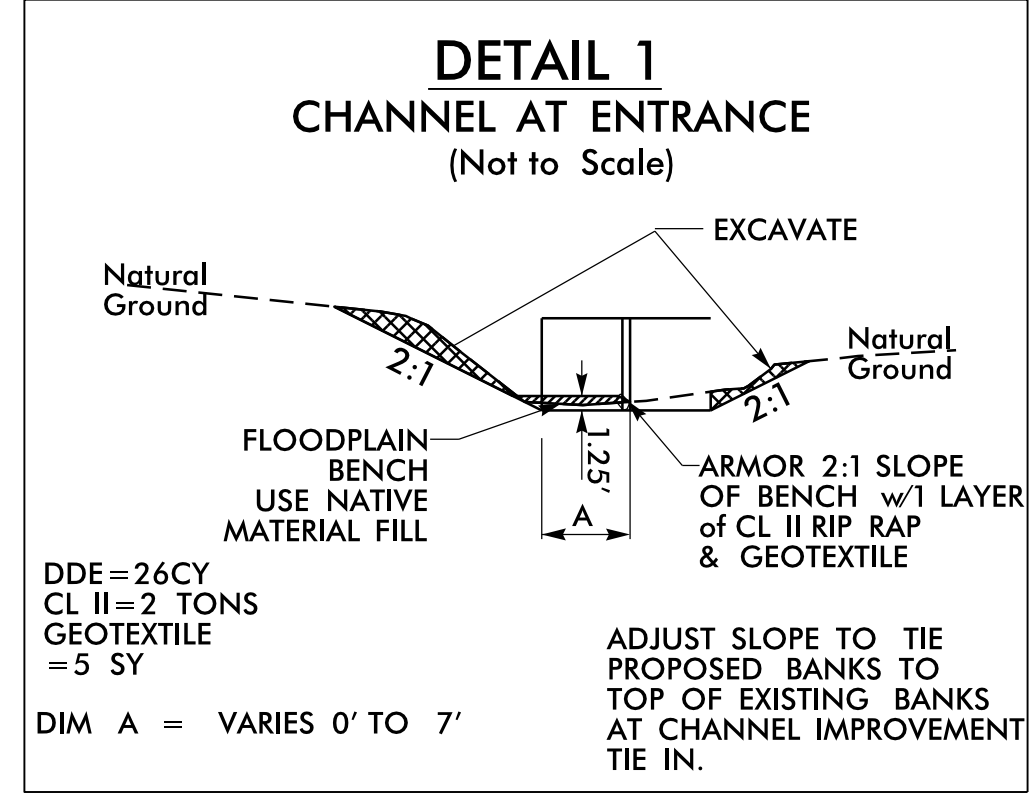
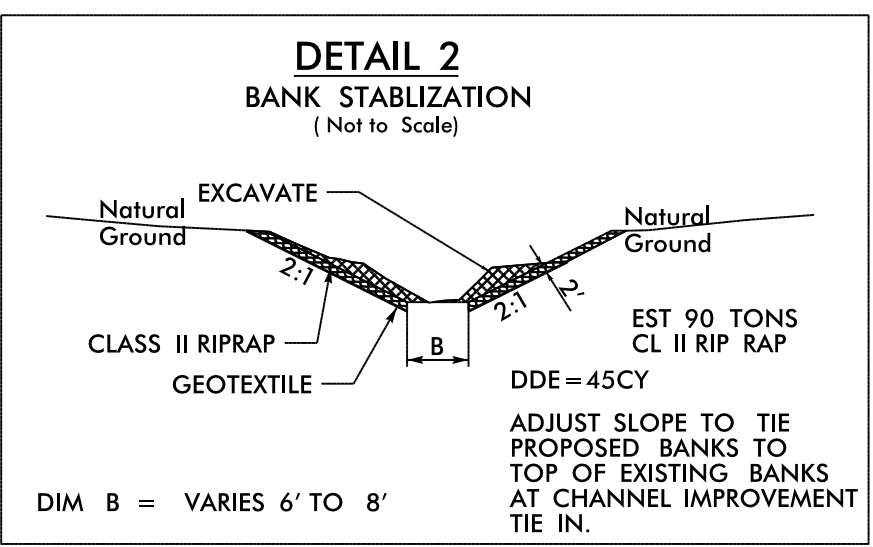
MATCHLINE -LNB- STA. 49+00.00 SEE SHEET 6

MATCHLINE -LNB- STA. 61+00.00 SEE SHEET 8

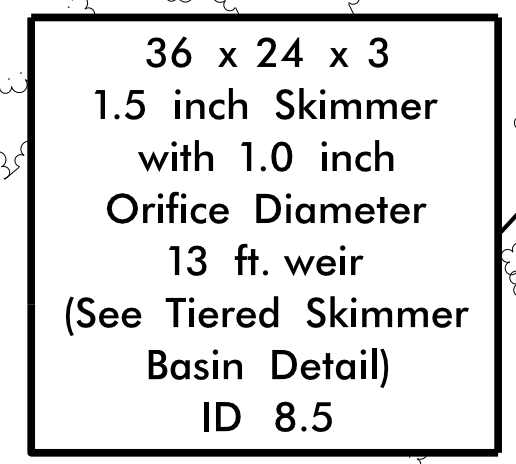
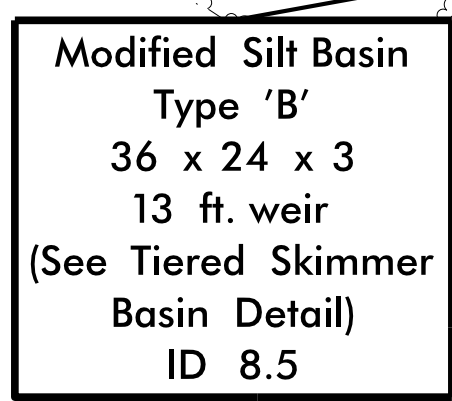
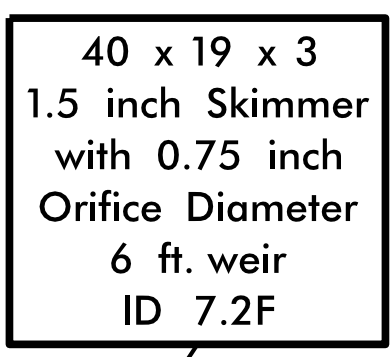


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 16/01/13

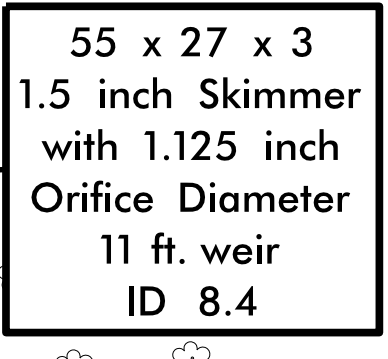
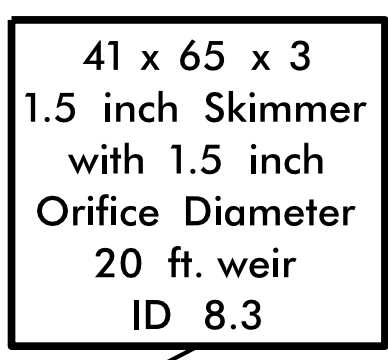
PROJECT REFERENCE NO.	SHEET NO.
K-4908	EC-17/CONST.08
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



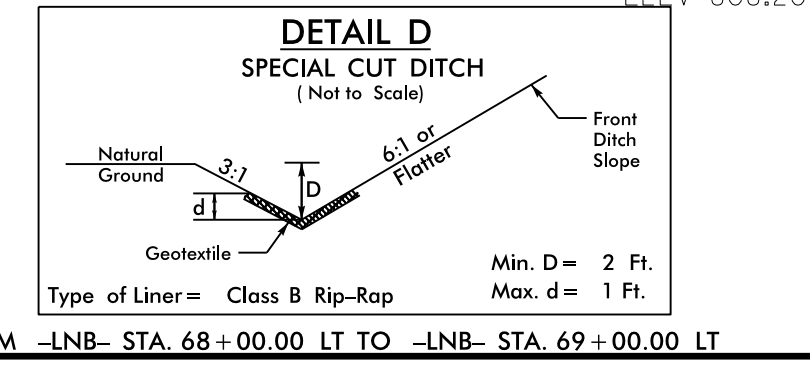
Place Matting for Erosion Control on Slope as Work Allows. Sta. 40+00 to Sta. 51+00



Place Matting for Erosion Control on Slope as Work Allows. Sta. 63+00 to Sta. 80+00



Place Matting for Erosion Control on Slope as Work Allows. Sta. 40+50 to Sta. 44+95



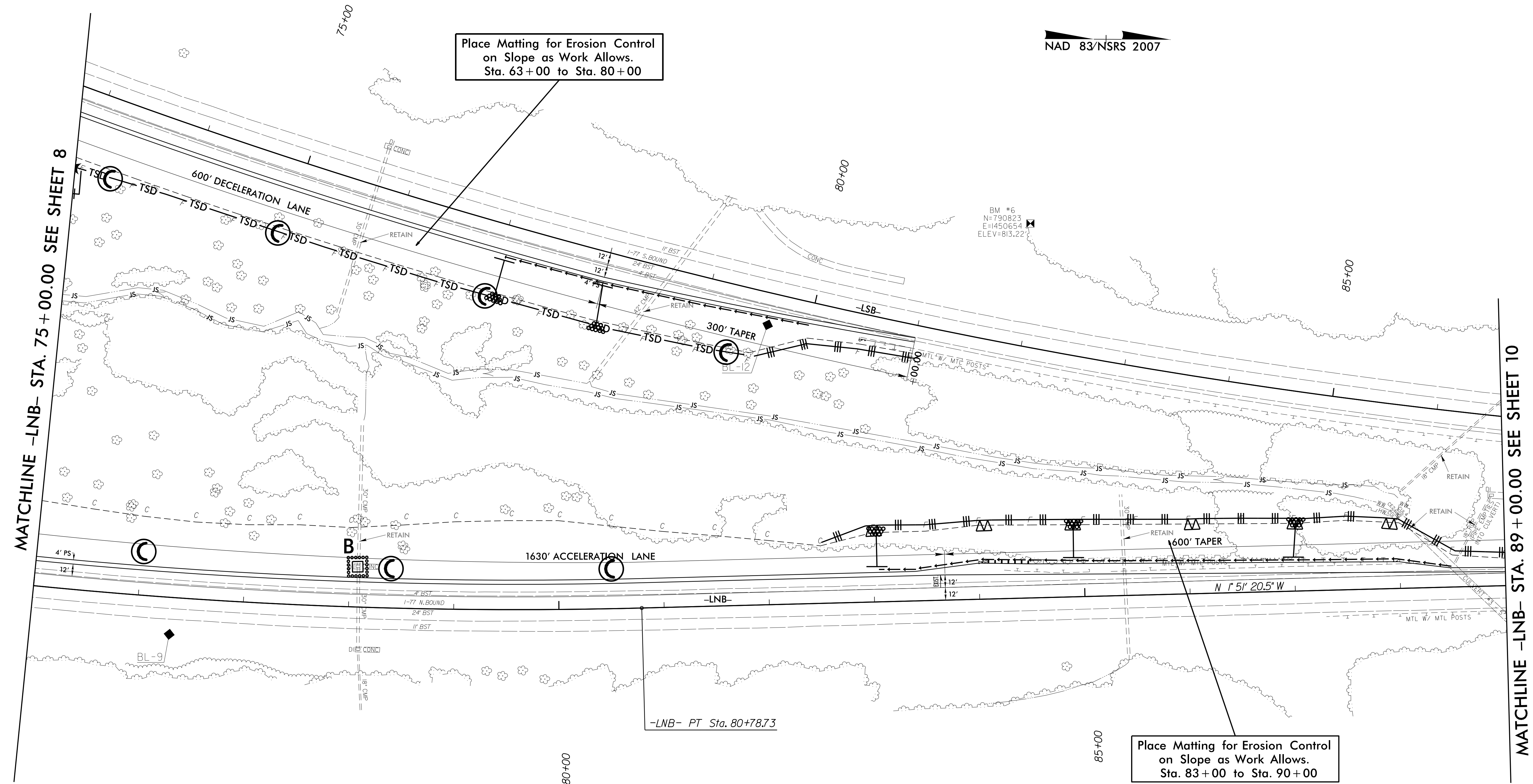
8/17/99
9/6 JAN-2015 11:21
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FROM -LNB- STA. 68+00.00 LT TO -LNB- STA. 69+00.00 LT

PROJECT REFERENCE NO.	SHEET NO.
K-4908	EC-18/CONST.09
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

8/17/99

96 JAN-2015 11:29
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 EC-18/CONST.09
 REN:7/2/13



Place Matting for Erosion Control
 on Slope as Work Allows.
 Sta. 63+00 to Sta. 80+00

Place Matting for Erosion Control
 on Slope as Work Allows.
 Sta. 83+00 to Sta. 90+00

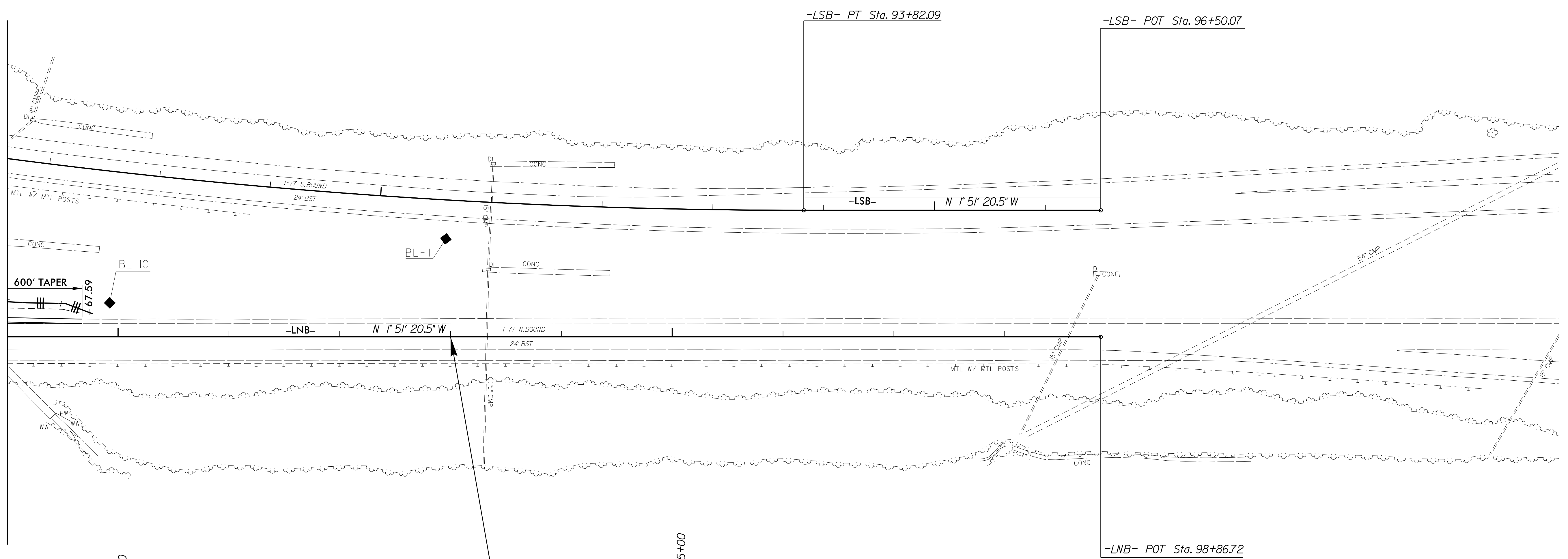
NAD 83/NSRS 2007

-LNB- PT Sta. 80+78.73

PROJECT REFERENCE NO.	SHEET NO.
K-4908	EC-19/CONST.10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCHLINE -LNB- STA. 89+00.00 SEE SHEET 9



END TIP PROJECT K-4908
-LNB- Sta. 93+00.00

8/17/99

96 JAN 2015 11:40
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