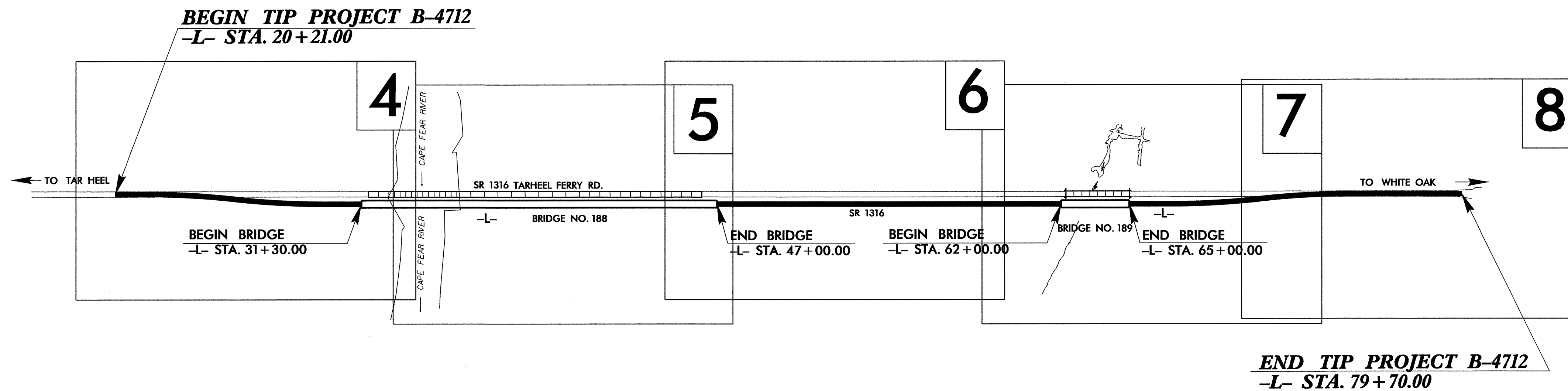
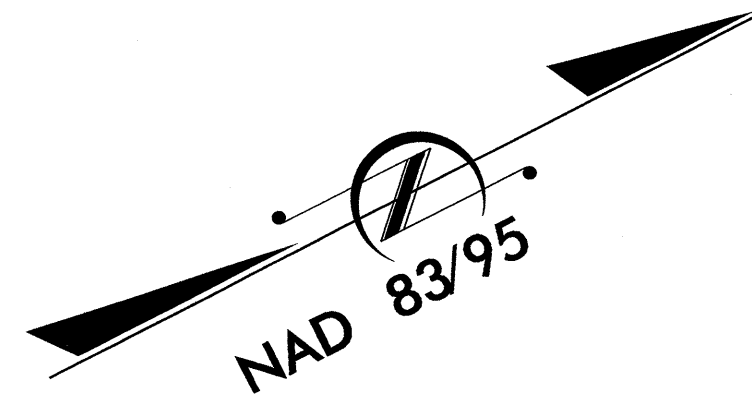


TIP PROJECT: B-4712

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

LOCATION: BRIDGE NO. 188 AND NO. 189 OVER THE CAPE FEAR RIVER ON SR 1316
TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND STRUCTURES

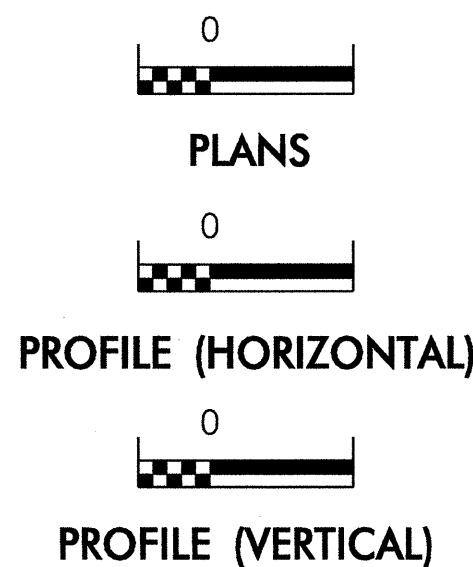


EROSION AND SEDIMENT CONTROL MEASURES

| 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 | ▲▲▲▲▲▲▲▲ |
| 1622.01 | Temporary Berms and Slope Drains | T |
| 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 | W |
| | Wattle / Coir Fiber Wattle with Polyacrylamide (PAM) | W |
| 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 | U |
| 1635.02 | Rock Pipe Inlet Sediment Trap Type-B | U |
| 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.**

GRAPHIC SCALE



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

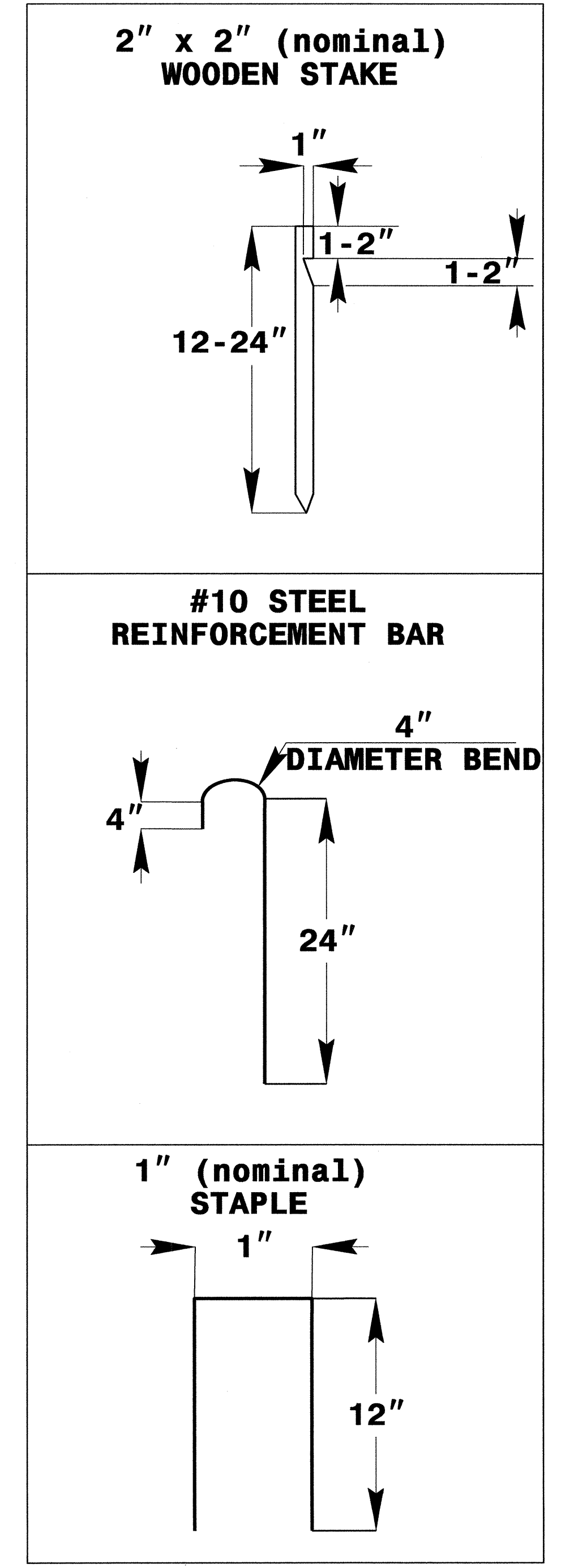
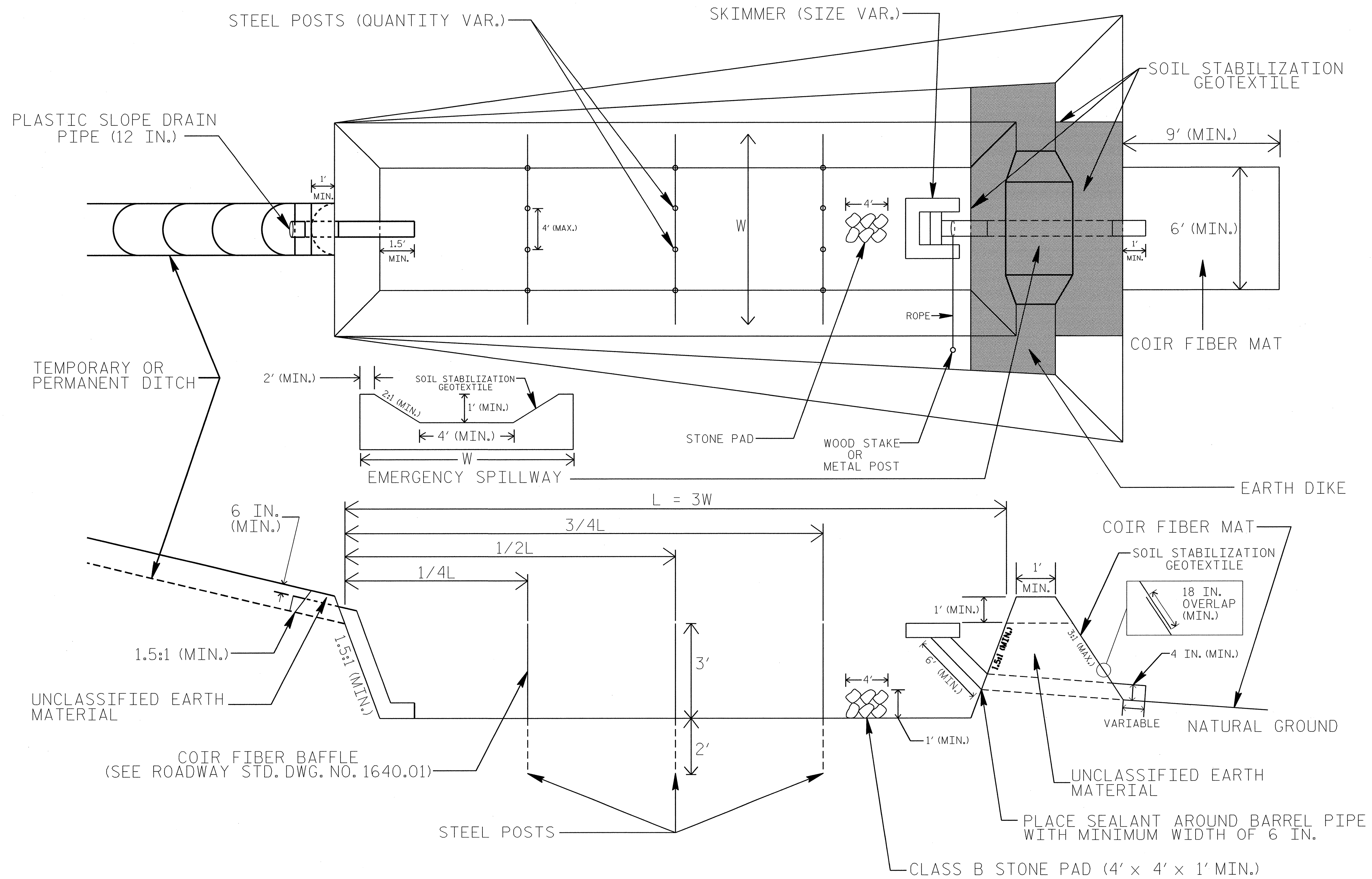
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2012 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

| | |
|--|--|
| 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 | |

20-OCT-2012 09:43:13 \\bladen\proj\B-4712\erdu_tsh.dgn

| | |
|---------------------------------|---------------------|
| PROJECT REFERENCE NO. B-4712 | SHEET NO. EC-02 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

SKIMMER BASIN WITH BAFFLES DETAIL



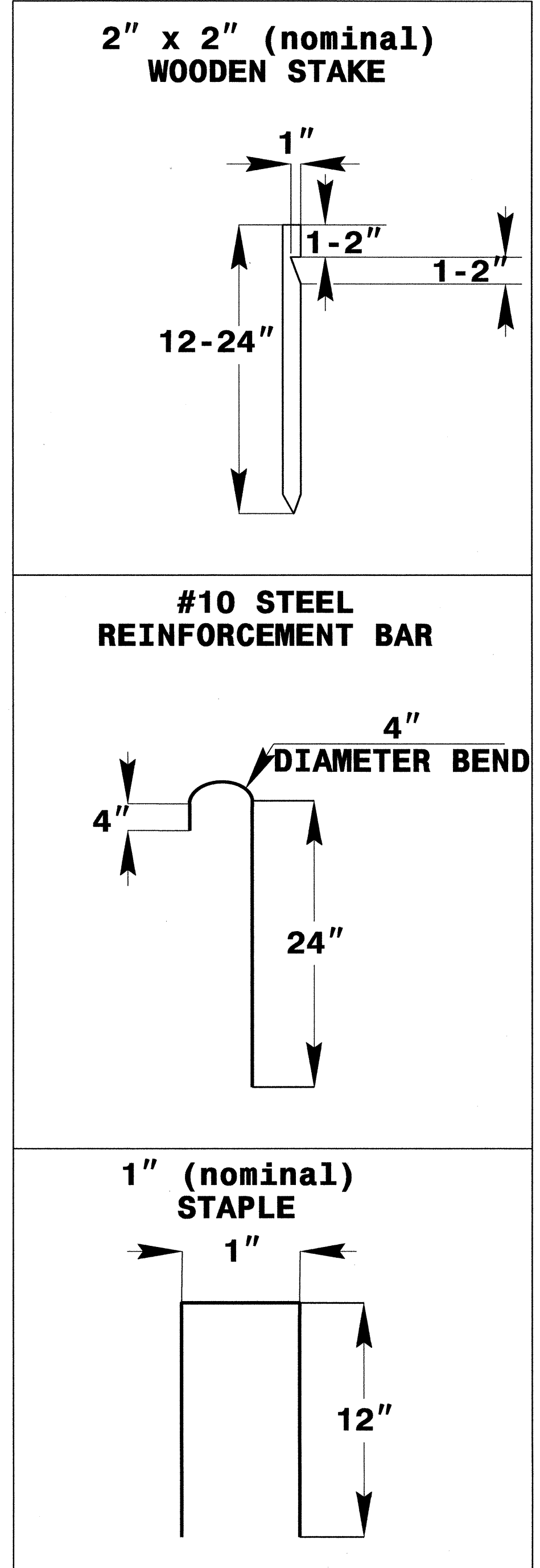
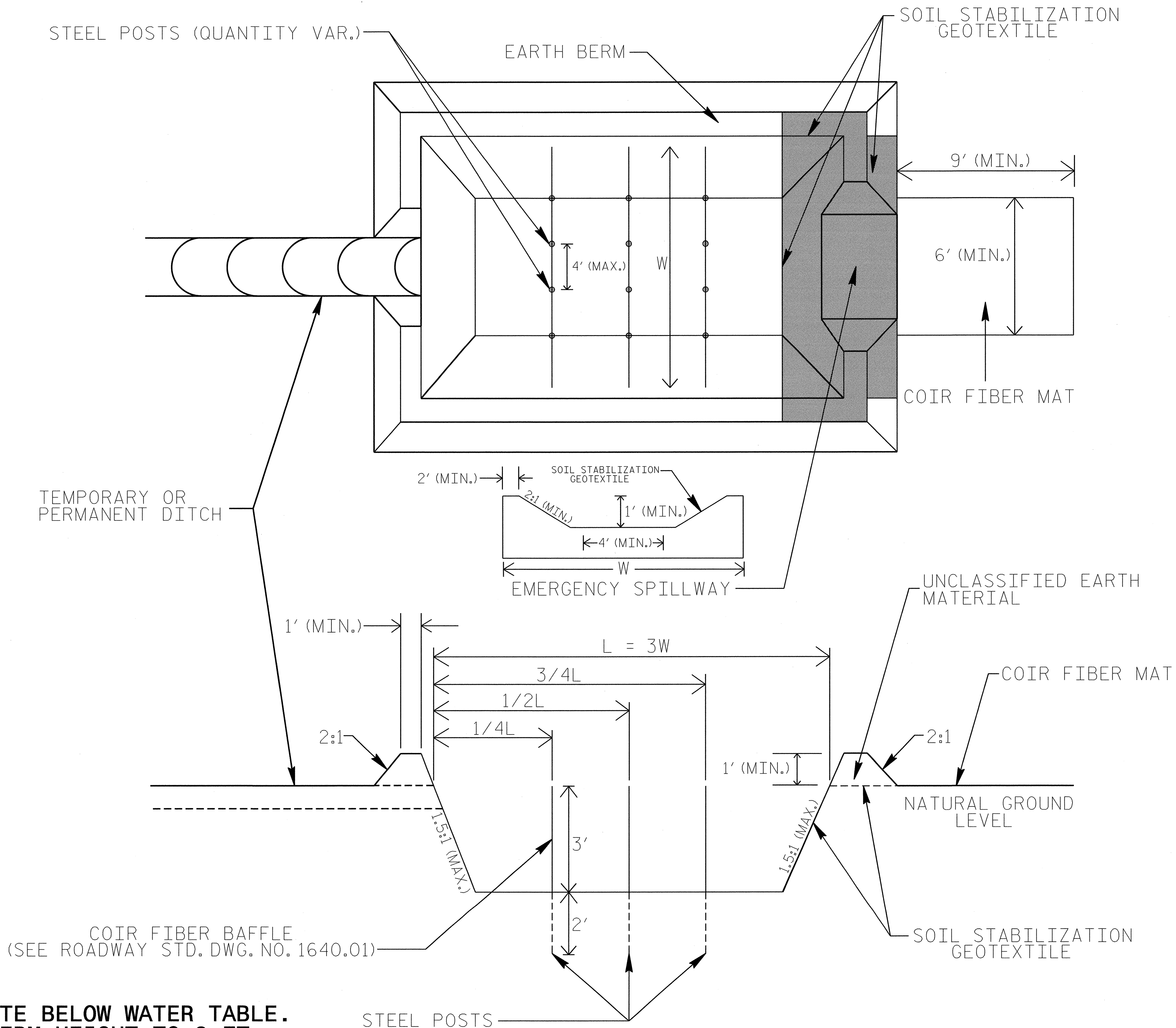
NOTES

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

NOT TO SCALE

INFILTRATION BASIN WITH BAFFLES DETAIL

| | |
|---------------------------------|---------------------|
| PROJECT REFERENCE NO. B-4712 | SHEET NO. EC-2A |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |



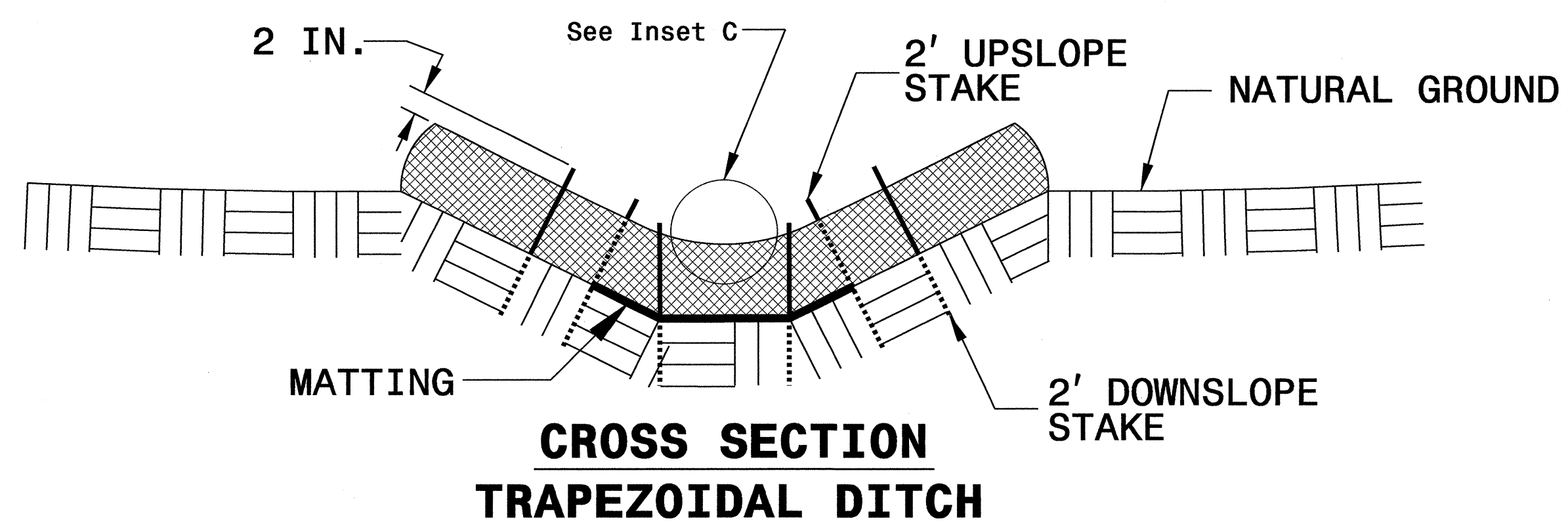
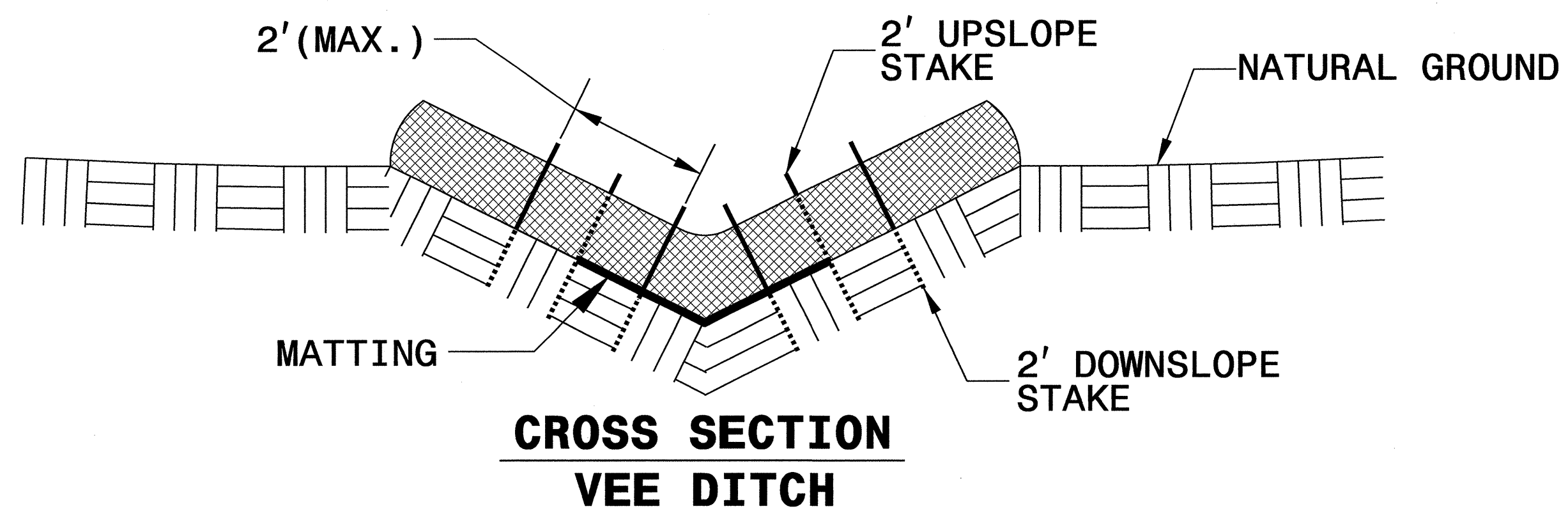
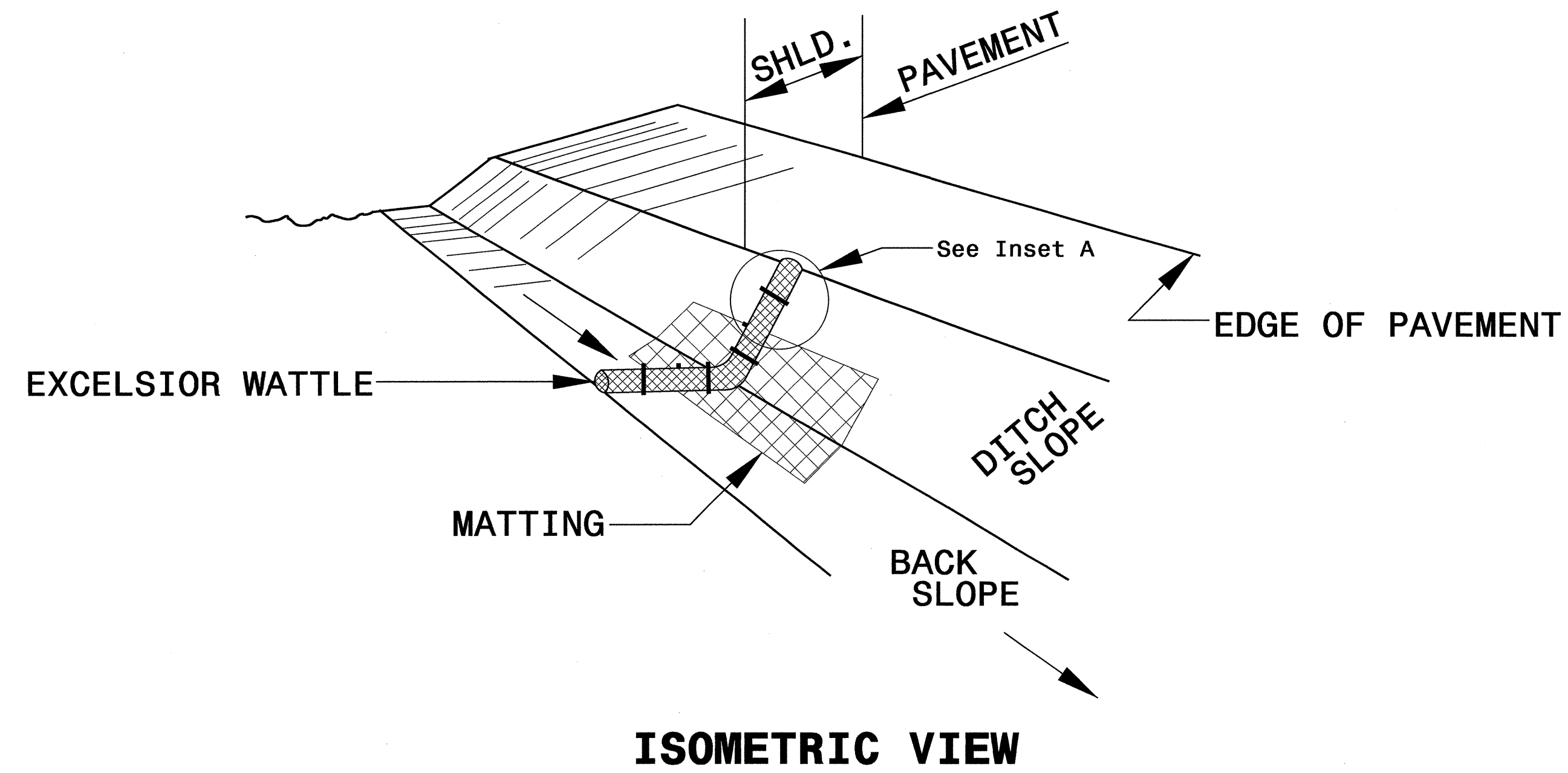
NOTES

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 EMERGENCY SPILLWAY LENGTH (FT.) USING $Q/0.8$, WHERE Q IS FLOW RATE (CFS) INTO BASIN.

NOT TO SCALE

| | |
|---------------------------------|---------------------|
| PROJECT REFERENCE NO. B-4712 | SHEET NO. EC-2B |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR 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.

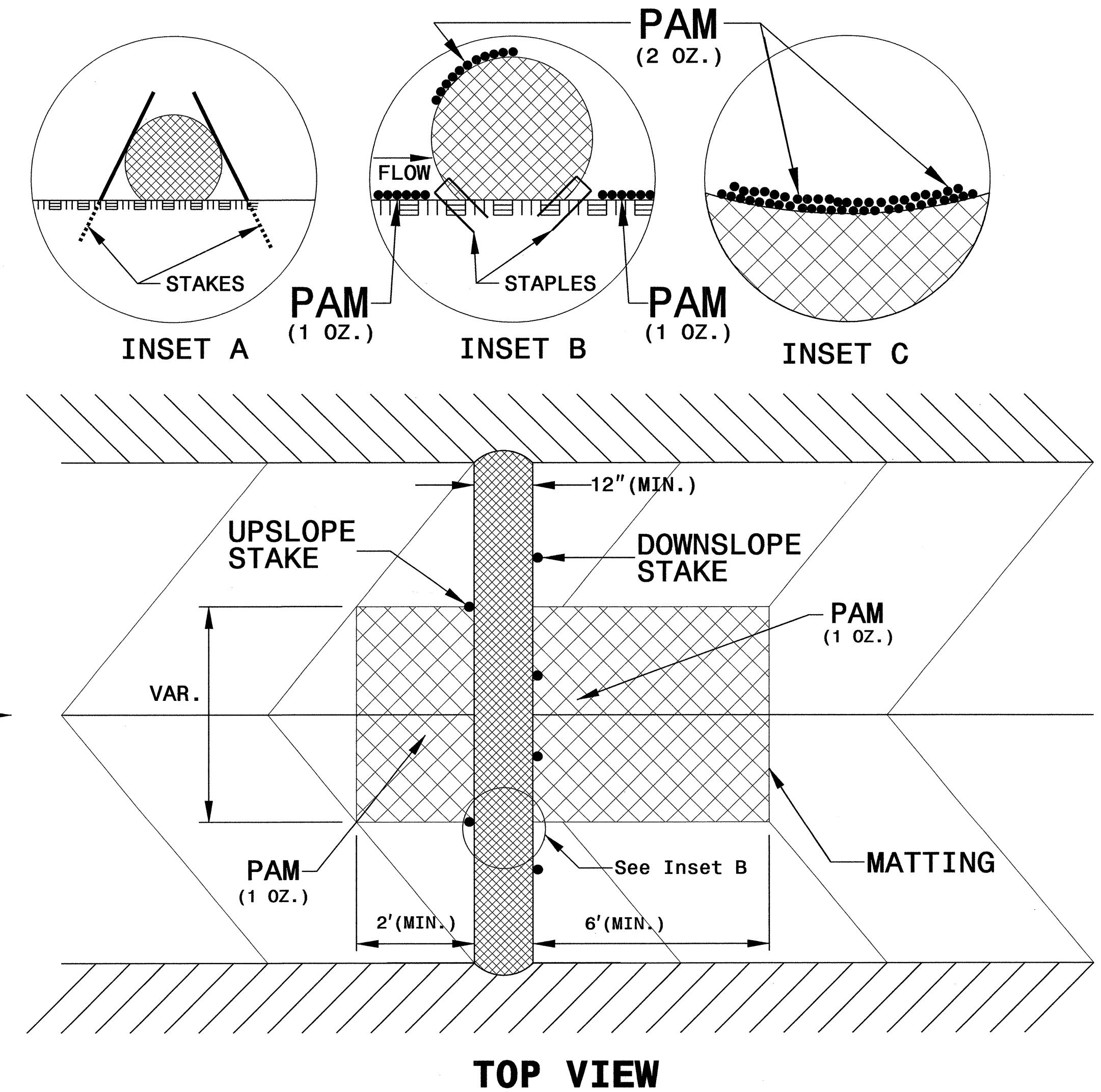
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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.

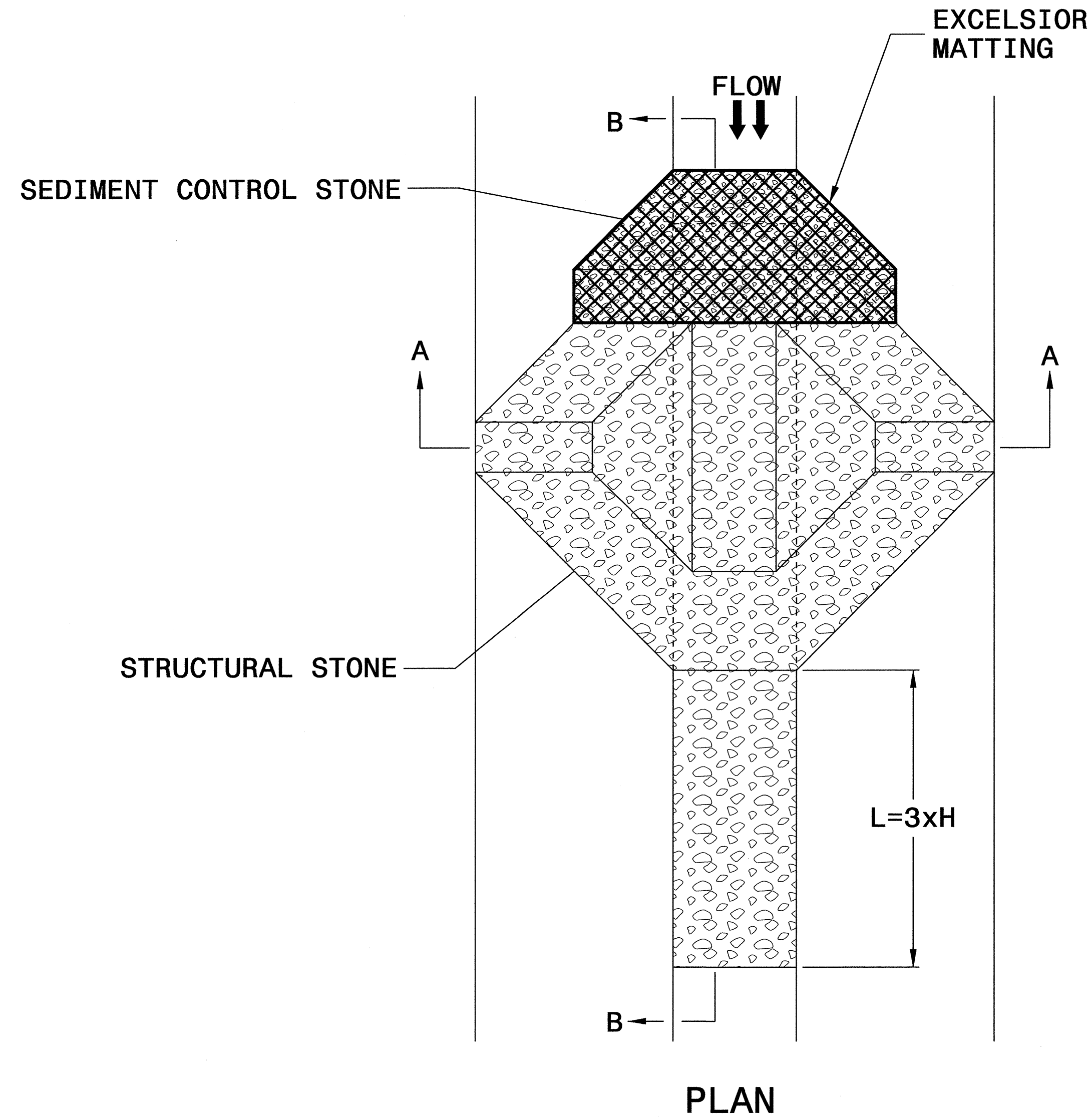
PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

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. B-4712 | SHEET NO. EC-2C |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

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

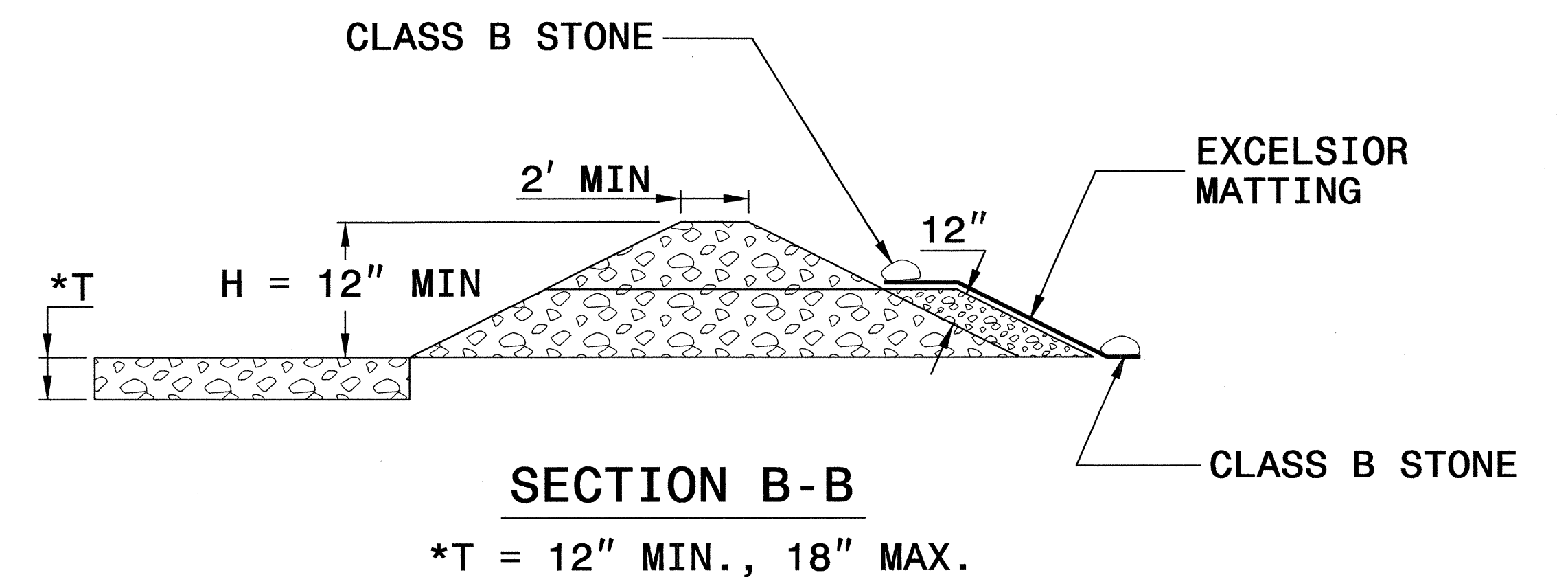
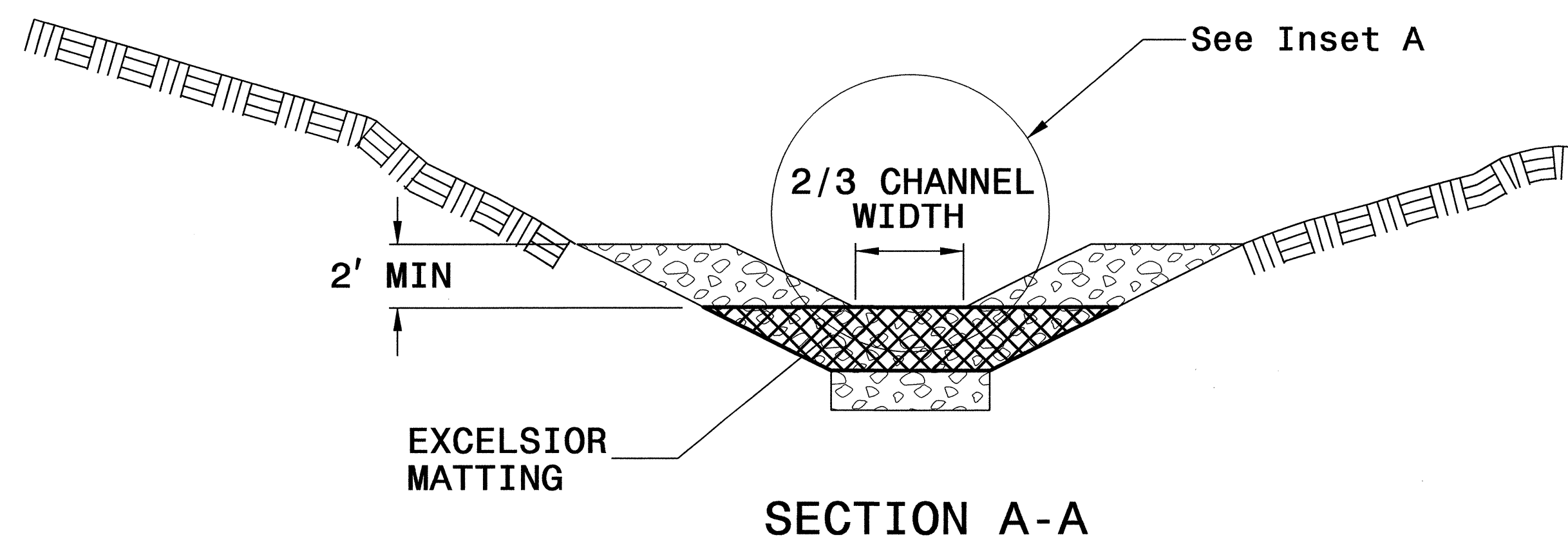
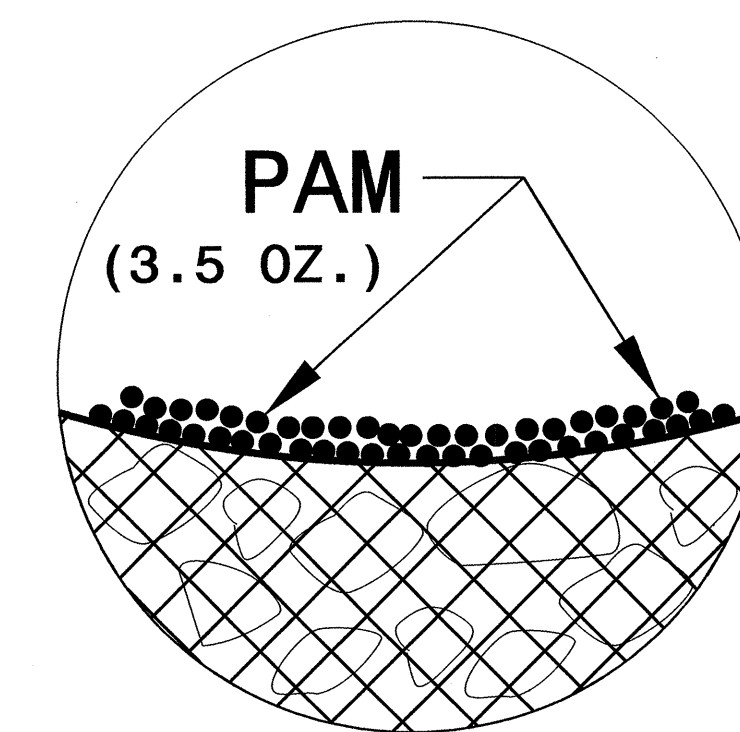


NOTES

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

BORROW PIT DEWATERING BASIN DETAIL

| | |
|---------------------------------|---------------------|
| PROJECT REFERENCE NO. B-4712 | SHEET NO. EC-2D |
| 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.

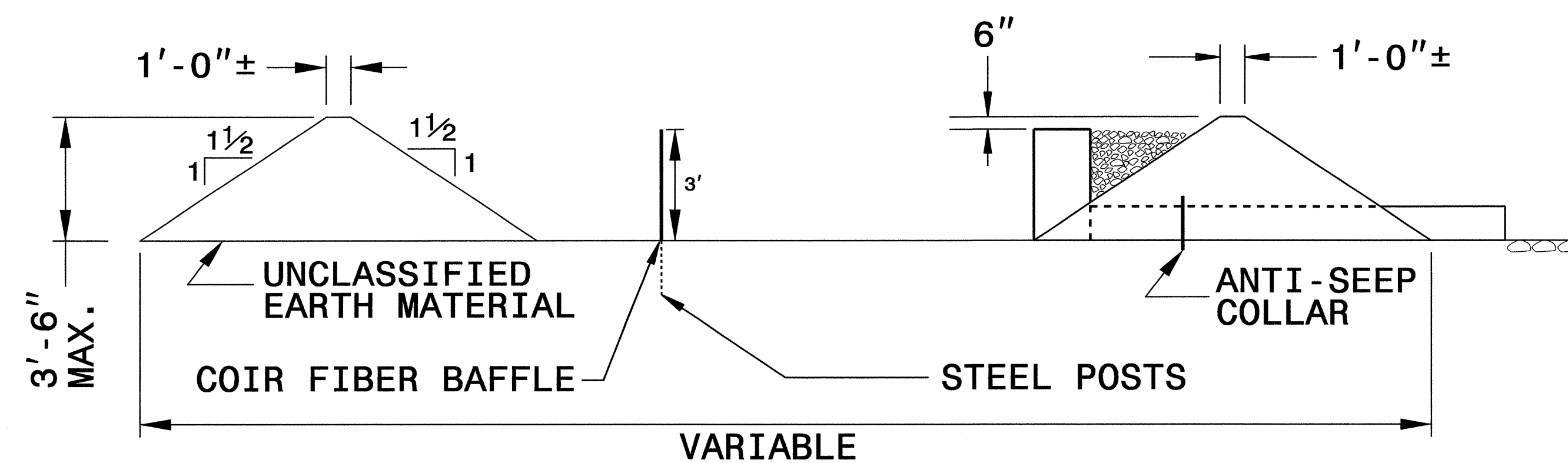
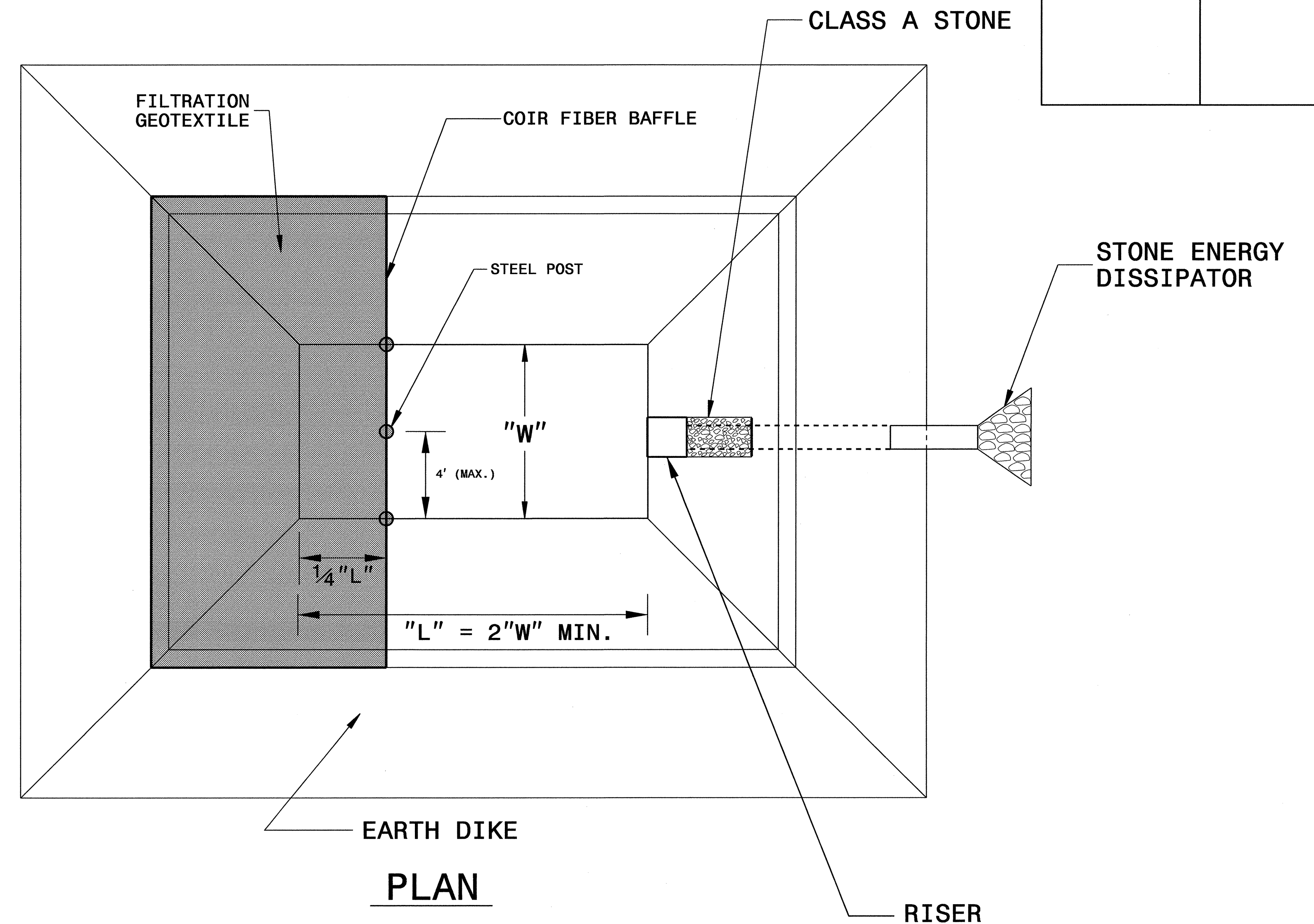
DO NOT EXCEED 3½ FT. IN HEIGHT FOR THE EARTH DIKES REQUIRED FOR BORROW PIT DEWATERING BASIN.

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

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

| | |
|--|---------------------------|
| PROJECT REFERENCE NO. <i>B-4712</i> | SHEET NO. <i>EC-3A</i> |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

SOIL STABILIZATION TIMEFRAMES

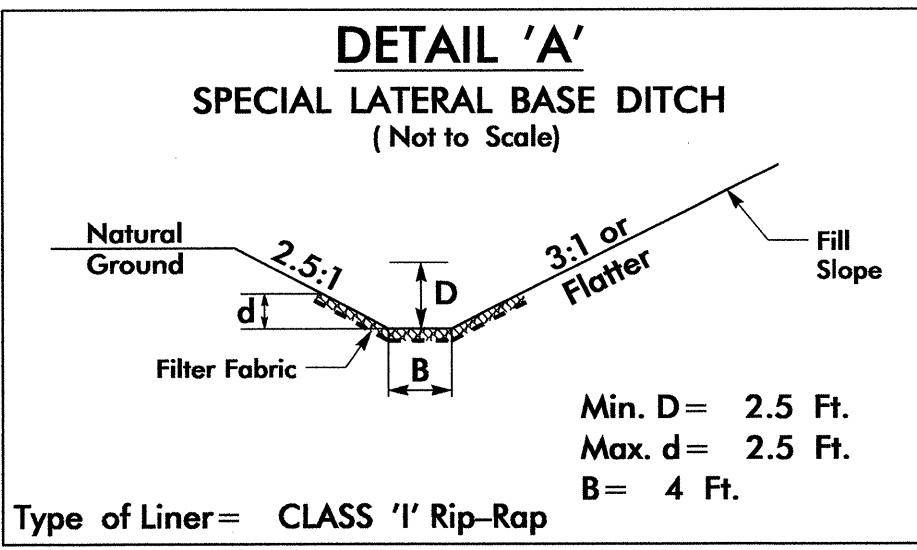
| <i>SITE DESCRIPTION</i> | <i>STABILIZATION TIME</i> | <i>TIMEFRAME EXCEPTIONS</i> |
|--|---------------------------|--|
| PERIMETER DIKES, SWALES, DITCHES AND SLOPES | 7 DAYS | NONE |
| HIGH QUALITY WATER (HQW) ZONES | 7 DAYS | NONE |
| SLOPES STEEPER THAN 3:1 | 7 DAYS | IF SLOPES ARE 10' OR LESS IN 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. |

| | |
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| PROJECT REFERENCE NO. B-4712 | SHEET NO. EC-04/CONST.04 |
| R/W SHEET NO. | HYDRAULICS ENGINEER |
| ROADWAY DESIGN ENGINEER | |

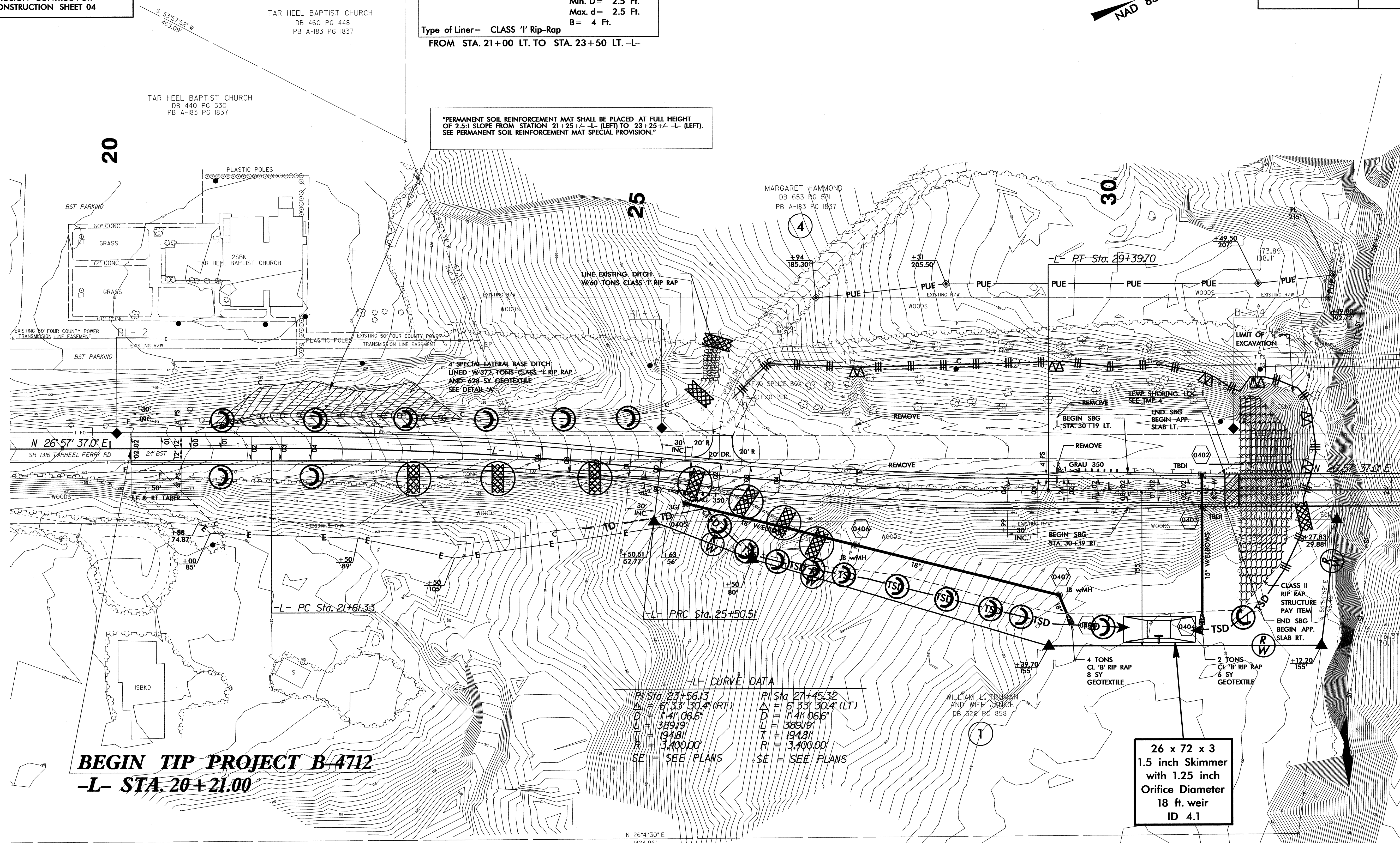
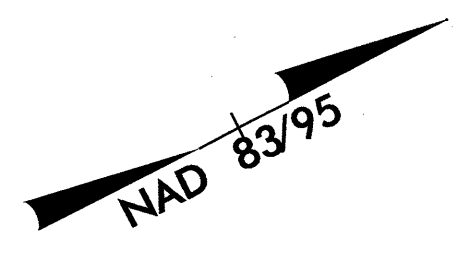
NOTE:
UTILIZE SKIMMER BASIN OR SPECIAL STILLING BASIN AS STILLING BASIN WHERE APPLICABLE.

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



Type of Liner = CLASS 'I' Rip-Rap
FROM STA. 21+00 LT. TO STA. 23+50 LT. -L-



"PERMANENT SOIL REINFORCEMENT MAT SHALL BE PLACED AT FULL HEIGHT OF 2.5:1 SLOPE FROM STATION 21+25+/- L- (LEFT) TO 23+25+/- L- (LEFT). SEE PERMANENT SOIL REINFORCEMENT MAT SPECIAL PROVISION."

-L- CURVE DATA

| | |
|-------------------------------------|-------------------------------------|
| PI Sta. 23+56.13 | PI Sta. 27+45.32 |
| $\Delta = 61^{\circ}33'30.4''$ (RT) | $\Delta = 61^{\circ}33'30.4''$ (LT) |
| D = 141'06.6' | D = 141'06.6' |
| L = 389.19' | L = 389.19' |
| T = 194.81' | T = 194.81' |
| R = 3,400.00' | R = 3,400.00' |
| SE = SEE PLANS | SE = SEE PLANS |

BEGIN TIP PROJECT B-4712
-L- STA. 20+21.00

26 x 72 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
18 ft. weir
ID 4.1

MATCHLINE 33+00.00 SEE SHEET 5

8/17/99

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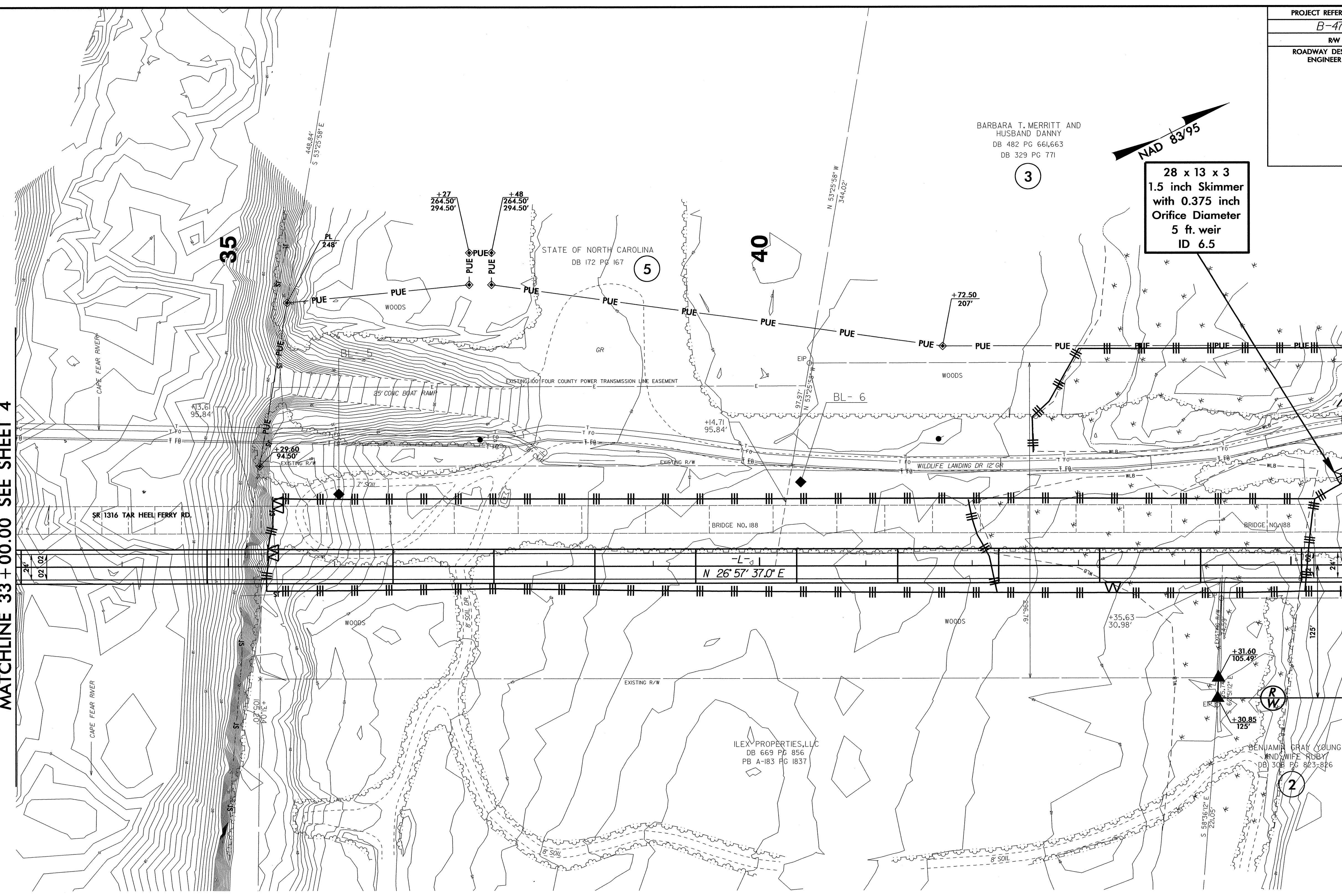
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| PROJECT REFERENCE NO. | SHEET NO. |
| B-4712 | EC-05/CONST.05 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

8/17/99

REVISIONS

MATCHLINE 33 + 00.00 SEE SHEET 4

MATCHLINE 45 + 50.00 SEE SHEET 6



BARBARA T. MERRITT AND HUSBAND DANNY
DB 482 PG 661,663
DB 329 PG 771

28 x 13 x 3
1.5 inch Skimmer
with 0.375 inch
Orifice Diameter
5 ft. weir
ID 6.5

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 05

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

NOTE:
UTILIZE SKIMMER BASIN OR SPECIAL STILLING BASIN
AS STILLING BASIN WHERE APPLICABLE.

END BRIDGE
-L- STA. 47+00.00

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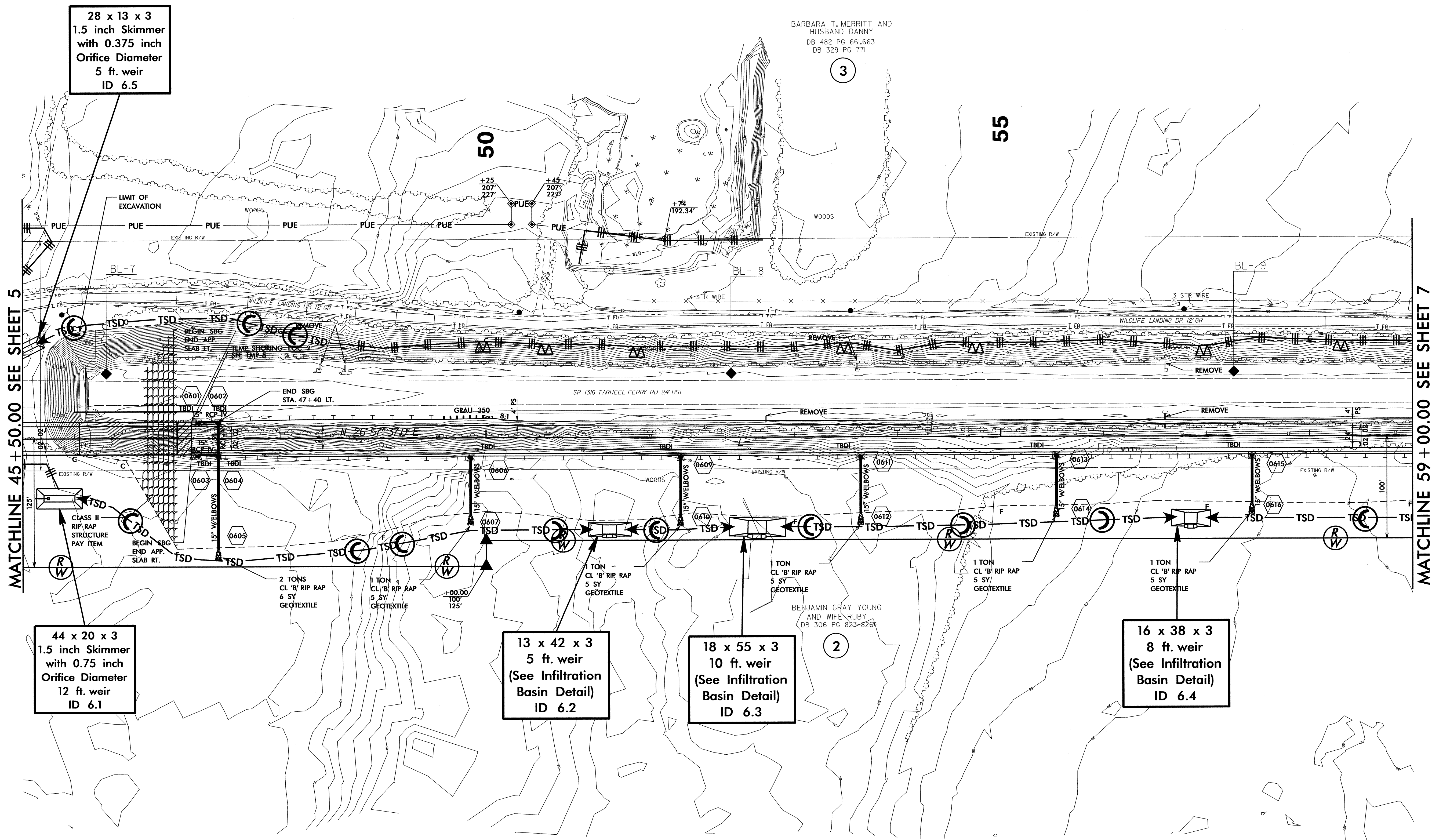
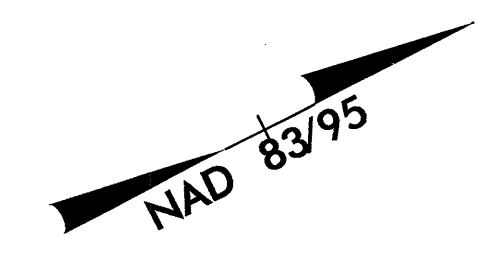
| | |
|---------------------------------|-----------------------------|
| PROJECT REFERENCE NO. B-4712 | SHEET NO. EC-06/CONST.06 |
| R/W SHEET NO. | HYDRAULICS ENGINEER |
| ROADWAY DESIGN ENGINEER | |

NOTE:
UTILIZE SKIMMER BASIN OR SPECIAL STILLING BASIN AS STILLING BASIN WHERE APPLICABLE.

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

N 25°04'20" E
292.65'



REVISIONS

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| | |
|--|------------------------------------|
| PROJECT REFERENCE NO. B-4712 | SHEET NO. EC-07/CONST.07 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

NOTE: UTILIZE SKIMMER BASIN OR SPECIAL STILLING BASIN AS STILLING BASIN WHERE APPLICABLE.

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

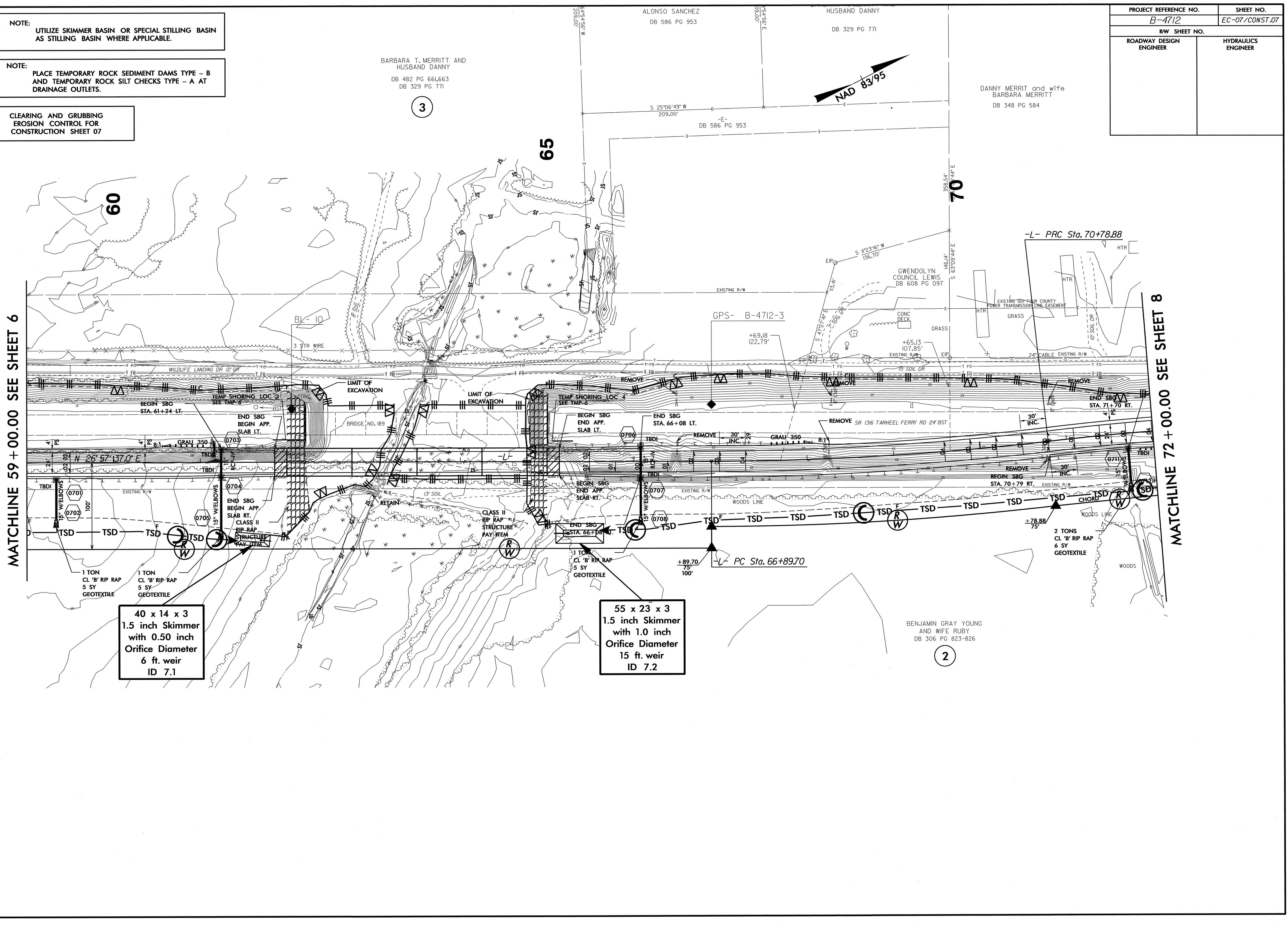
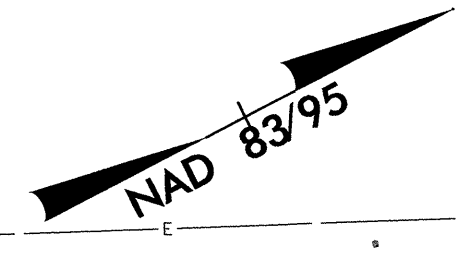
BARBARA T. MERRITT AND HUSBAND DANNY
DB 482 PG 661,663
DB 329 PG 771

ALONSO SANCHEZ
DB 586 PG 953

HUSBAND DANNY
DB 329 PG 771

DANNY MERRITT and wife BARBARA MERRITT
DB 348 PG 584

BENJAMIN GRAY YOUNG AND WIFE RUBY
DB 306 PG 823-826



MATCHLINE 59 + 00.00 SEE SHEET 6

MATCHLINE 72 + 00.00 SEE SHEET 8

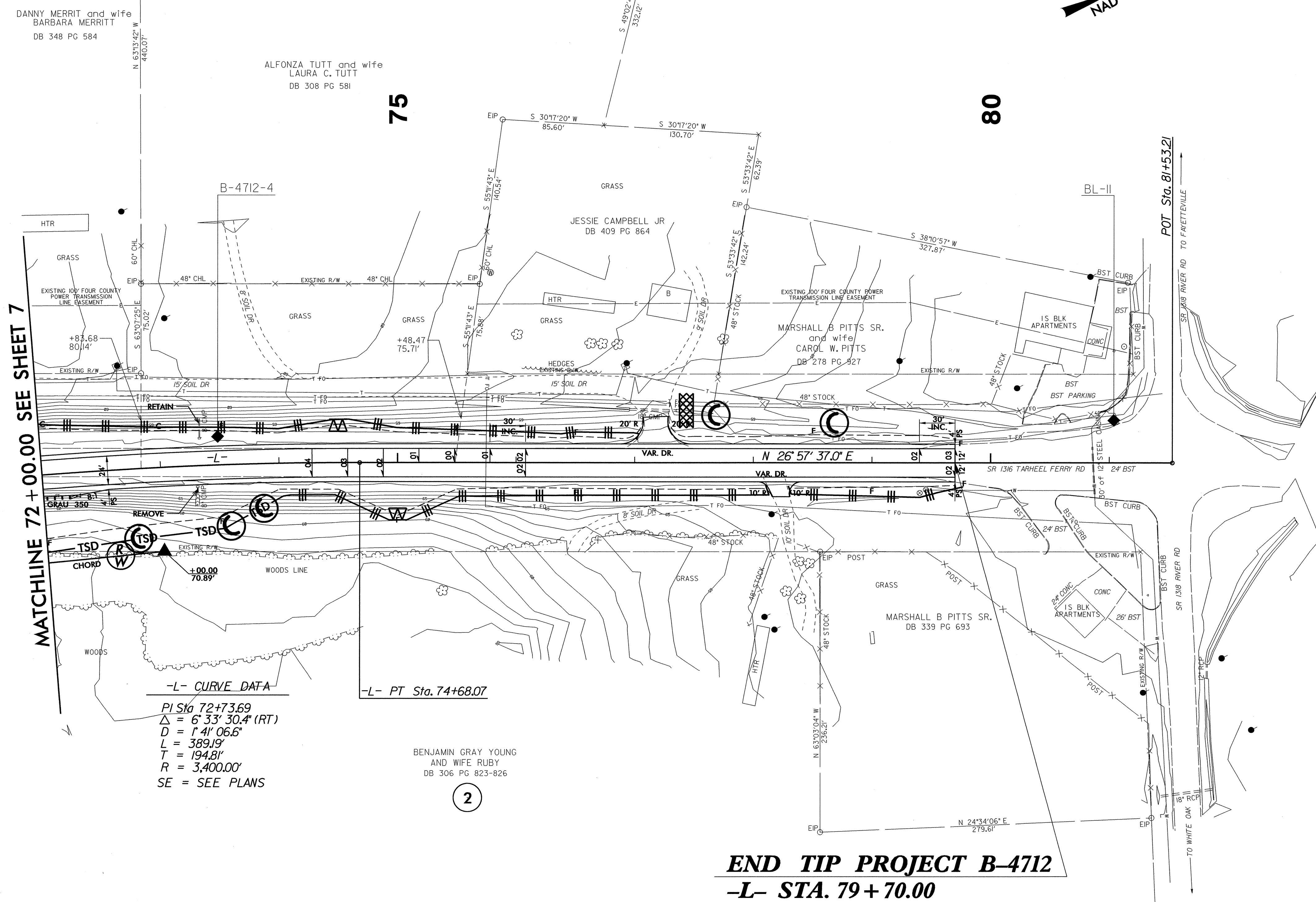
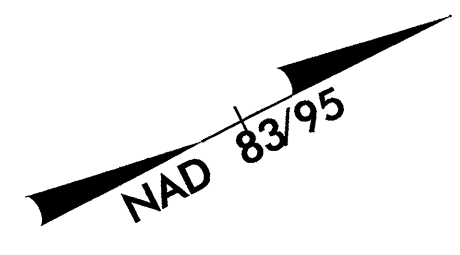
40 x 14 x 3
1.5 inch Skimmer
with 0.50 inch
Orifice Diameter
6 ft. weir
ID 7.1

55 x 23 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
15 ft. weir
ID 7.2

REVISIONS

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|-------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| B-4712 | EC-08/CONST.08 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |



MATCHLINE 72 + 00.00 SEE SHEET 7

-L- CURVE DATA
 PI Sta 72+73.69
 $\Delta = 6^{\circ} 33' 30.4''$ (RT)
 $D = 1^{\circ} 41' 06.6''$
 $L = 389.19'$
 $T = 194.81'$
 $R = 3,400.00'$
 SE = SEE PLANS

-L- PT Sta. 74+68.07

2

END TIP PROJECT B-4712
-L- STA. 79 + 70.00

REVISIONS

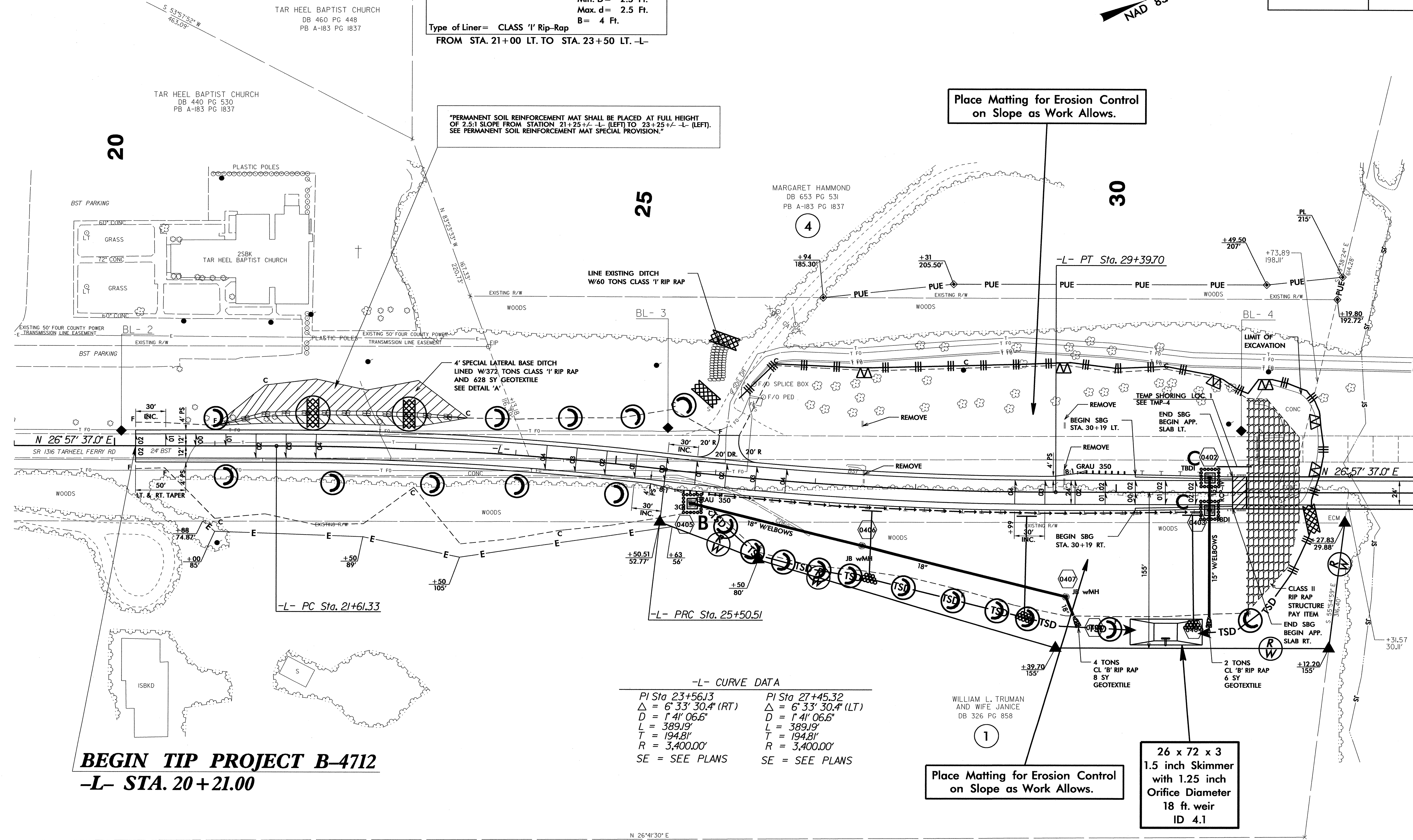
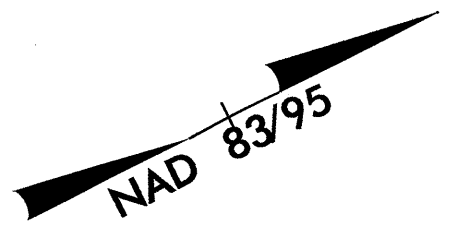
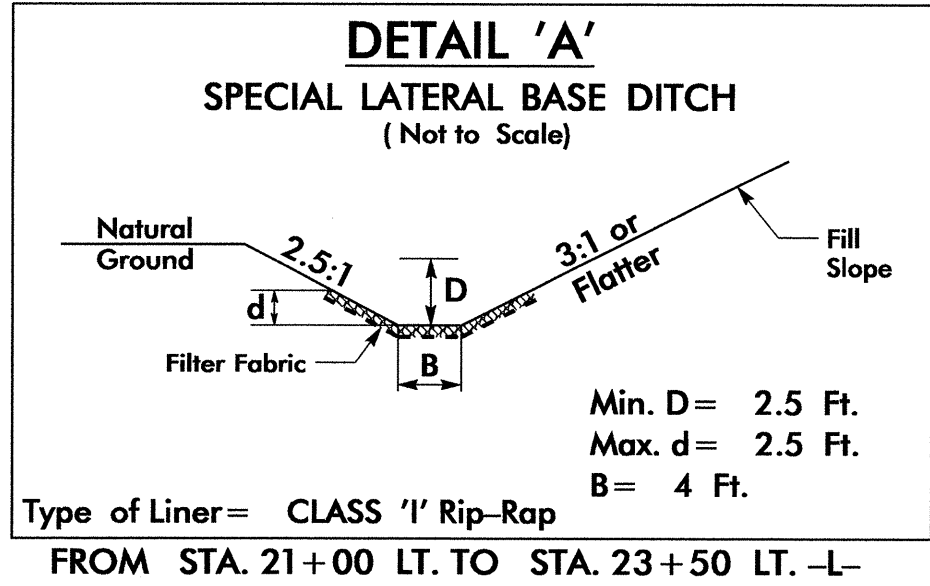
CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 08

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

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| | |
|-------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| B-4712 | EC-09/CONST.04 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

NOTE: UTILIZE SKIMMER BASIN OR SPECIAL STILLING BASIN AS STILLING BASIN WHERE APPLICABLE.



"PERMANENT SOIL REINFORCEMENT MAT SHALL BE PLACED AT FULL HEIGHT OF 2.5:1 SLOPE FROM STATION 21+25 +/- -L- (LEFT) TO 23+25 +/- -L- (LEFT). SEE PERMANENT SOIL REINFORCEMENT MAT SPECIAL PROVISION."

Place Matting for Erosion Control on Slope as Work Allows.

-L- CURVE DATA

| | |
|--------------------------------------|--------------------------------------|
| PI Sta 23+56.13 | PI Sta 27+45.32 |
| $\Delta = 6^{\circ} 33' 30.4''$ (RT) | $\Delta = 6^{\circ} 33' 30.4''$ (LT) |
| $D = 1^{\circ} 41' 06.6''$ | $D = 1^{\circ} 41' 06.6''$ |
| $L = 389.19'$ | $L = 389.19'$ |
| $T = 194.81'$ | $T = 194.81'$ |
| $R = 3,400.00'$ | $R = 3,400.00'$ |
| SE = SEE PLANS | SE = SEE PLANS |

Place Matting for Erosion Control on Slope as Work Allows.

26 x 72 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
18 ft. weir
ID 4.1

BEGIN TIP PROJECT B-4712
-L- STA. 20+21.00

MATCHLINE 33 + 00.00 SEE SHEET 5

REVISIONS

8/17/09
30-OCT-2012 09:16
R:\Environmental\Design\B-4712_EC_psh4.dgn
schollip AT RENV24768

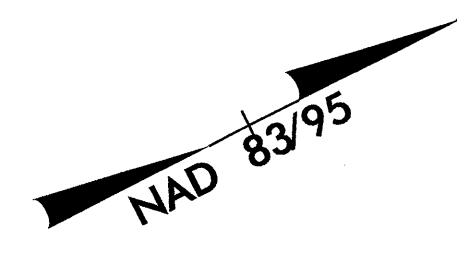
N 26°41'30" E
1424.96'

8/17/99

NOTE:
UTILIZE SKIMMER BASIN OR SPECIAL STILLING BASIN
AS STILLING BASIN WHERE APPLICABLE.

| | |
|---------------------------------|-----------------------------|
| PROJECT REFERENCE NO. B-4712 | SHEET NO. EC-II/CONST.06 |
| R/W SHEET NO. | HYDRAULICS ENGINEER |
| ROADWAY DESIGN ENGINEER | |

N 25°04'20" E
292.65'

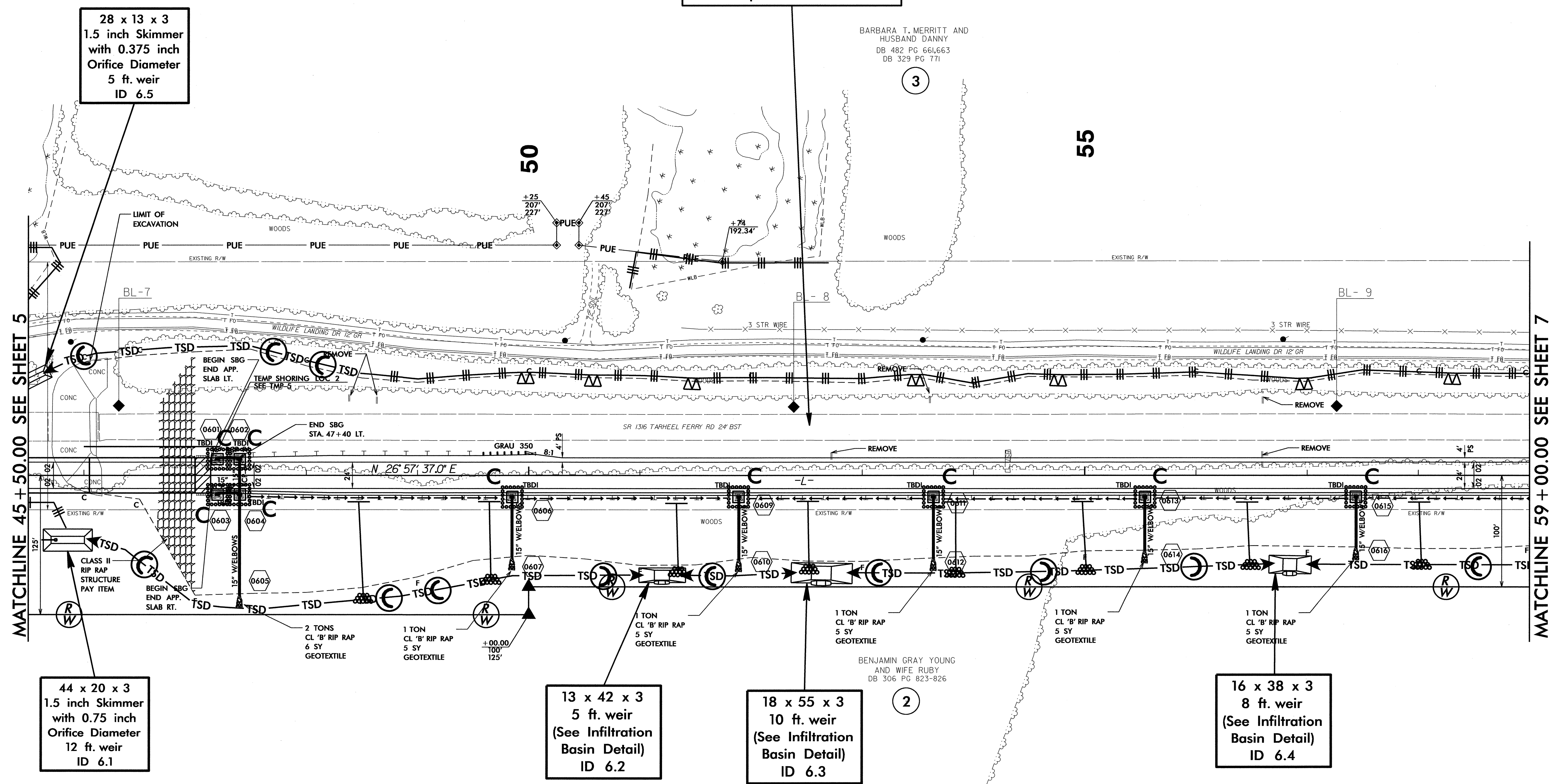


Place Matting for Erosion Control
on Slope as Work Allows.

28 x 13 x 3
1.5 inch Skimmer
with 0.375 inch
Orifice Diameter
5 ft. weir
ID 6.5

MATCHLINE 45 + 50.00 SEE SHEET 5

MATCHLINE 59 + 00.00 SEE SHEET 7



44 x 20 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
12 ft. weir
ID 6.1

13 x 42 x 3
5 ft. weir
(See Infiltration
Basin Detail)
ID 6.2

18 x 55 x 3
10 ft. weir
(See Infiltration
Basin Detail)
ID 6.3

16 x 38 x 3
8 ft. weir
(See Infiltration
Basin Detail)
ID 6.4

REVISIONS

30-OCT-2012 09:34
R:\Environment\B-4712-EC-pah6.dgn
adillon AT BENW24728

8/17/99

NOTE:
UTILIZE SKIMMER BASIN OR SPECIAL STILLING BASIN
AS STILLING BASIN WHERE APPLICABLE.

BARBARA T. MERRITT AND
HUSBAND DANNY
DB 482 PG 661,663
DB 329 PG 771

ALONSO SANCHEZ
DB 586 PG 953

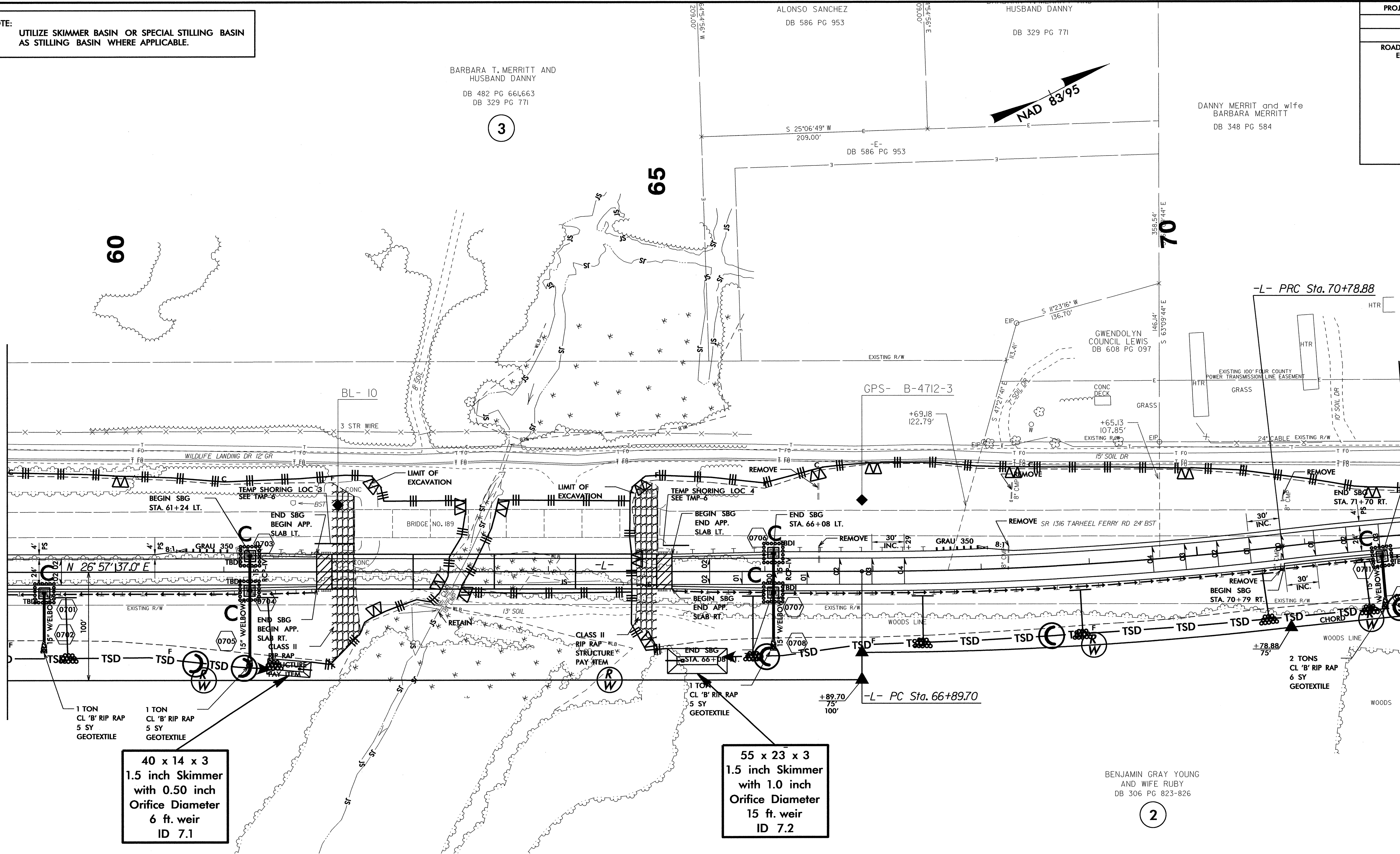
HUSBAND DANNY
DB 329 PG 771

DANNY MERRIT and wife
BARBARA MERRITT
DB 348 PG 584

| | | | |
|-------------------------|--|---------------------|--|
| PROJECT REFERENCE NO. | | SHEET NO. | |
| B-4712 | | EC-12/CONST.07 | |
| RW SHEET NO. | | | |
| ROADWAY DESIGN ENGINEER | | HYDRAULICS ENGINEER | |

MATCHLINE 59 + 00.00 SEE SHEET 6

MATCHLINE 72 + 00.00 SEE SHEET 8



40 x 14 x 3
1.5 inch Skimmer
with 0.50 inch
Orifice Diameter
6 ft. weir
ID 7.1

55 x 23 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
15 ft. weir
ID 7.2

BENJAMIN GRAY YOUNG
AND WIFE RUBY
DB 306 PG 823-826

2

REVISIONS

30-OCT-2012 09:36
R:\Environment\Design\B-4712-EC-ps17.dgn
subolien AT BENW247788

| | |
|-------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| B-4712 | EC-13/CONST.08 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

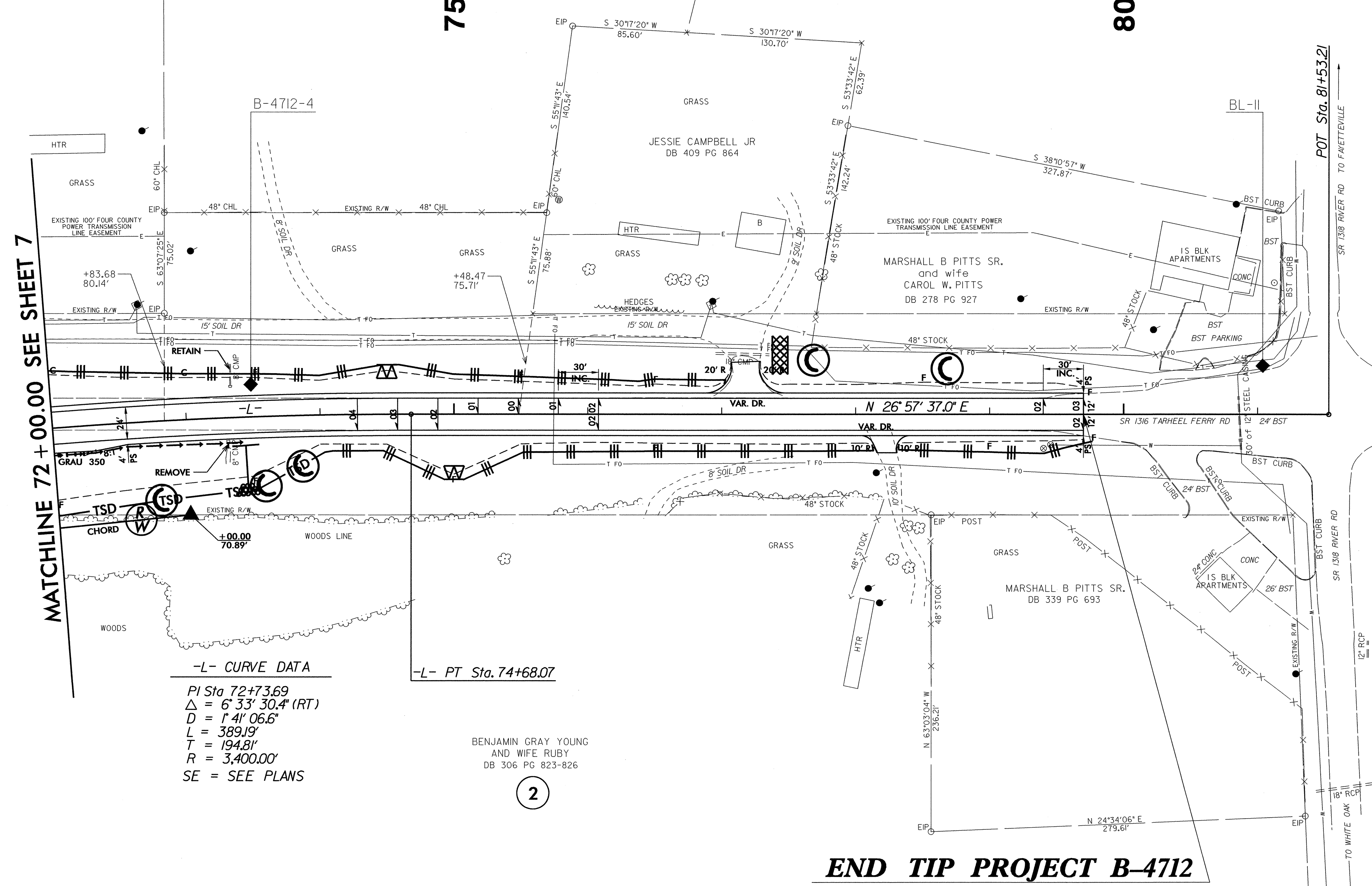
8/17/99

DANNY MERRIT and wife
BARBARA MERRITT
DB 348 PG 584

ALFONZA TUTT and wife
LAURA C. TUTT
DB 308 PG 581

75

80



MATCHLINE 72 + 00.00 SEE SHEET 7

POT Sta. 81+53.21

-L- CURVE DATA
 PI Sta 72+73.69
 $\Delta = 6^{\circ} 33' 30.4''$ (RT)
 $D = 1^{\circ} 41' 06.6''$
 $L = 389.19'$
 $T = 194.81'$
 $R = 3,400.00'$
 SE = SEE PLANS

-L- PT Sta. 74+68.07

BENJAMIN GRAY YOUNG
AND WIFE RUBY
DB 306 PG 823-826

2

END TIP PROJECT B-4712
-L- STA. 79 + 70.00

REVISIONS

R:\DCIT-2012_09\50_Design\B-4712_EC.psh8.dgn
 8/17/99
 11:00 AM
 11/17/99