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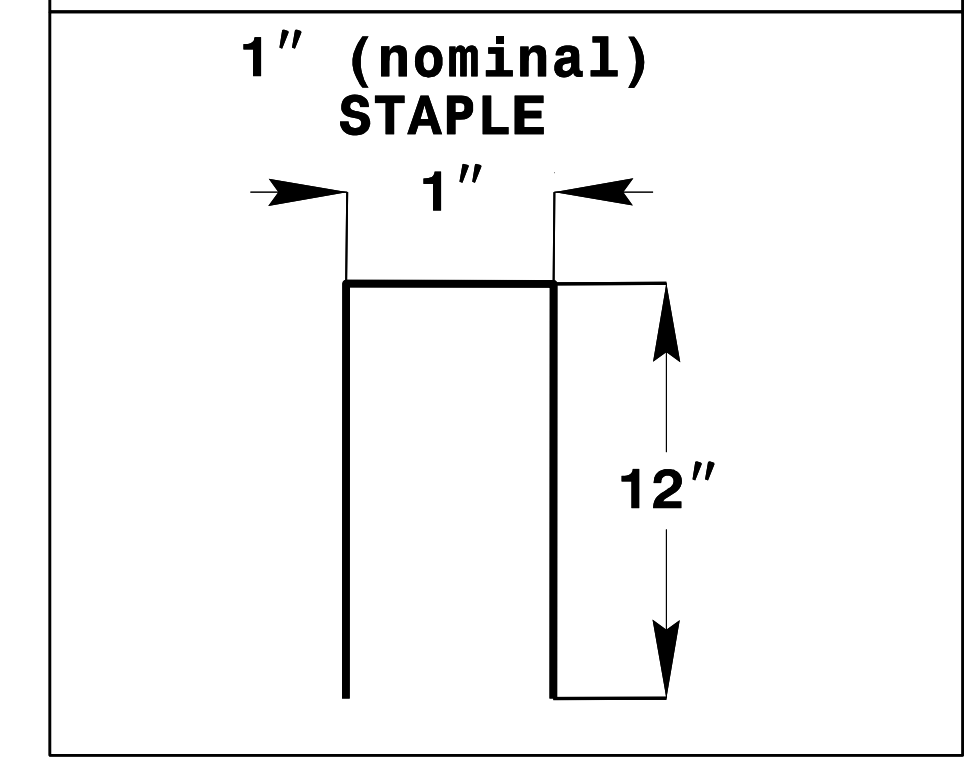
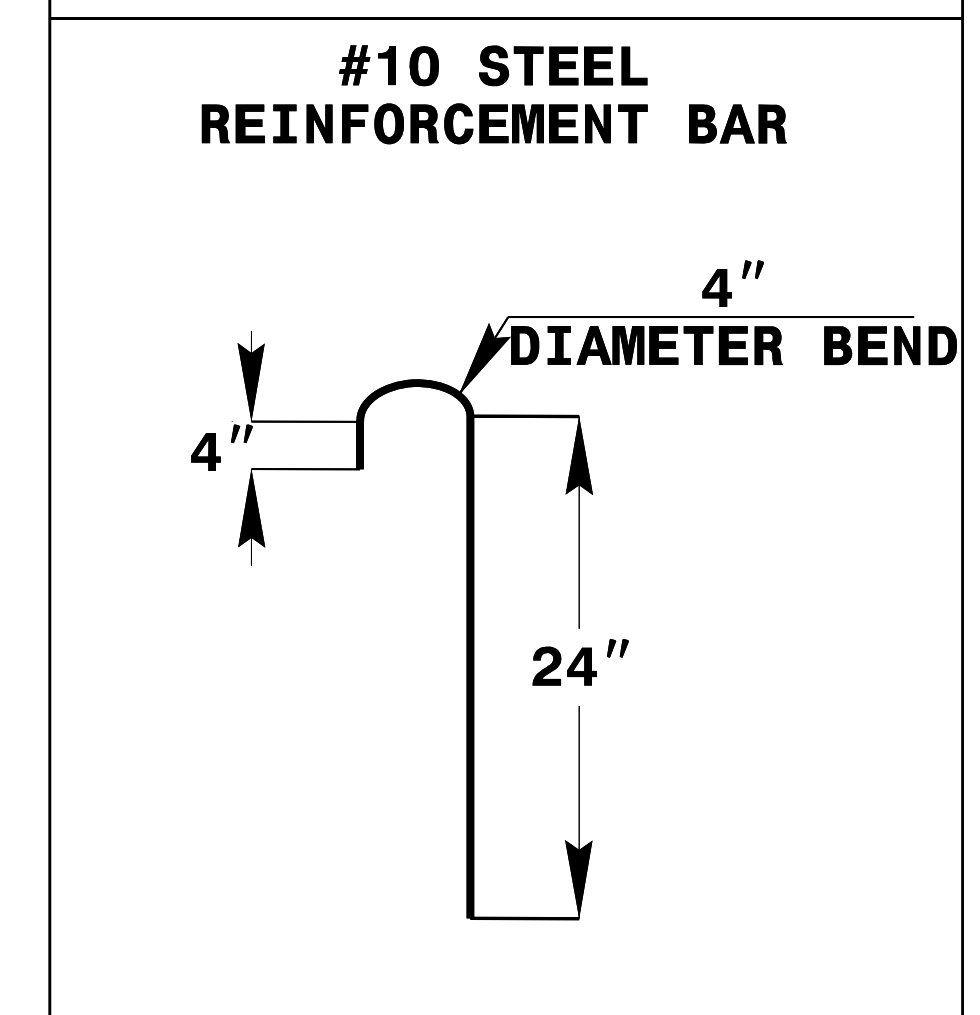
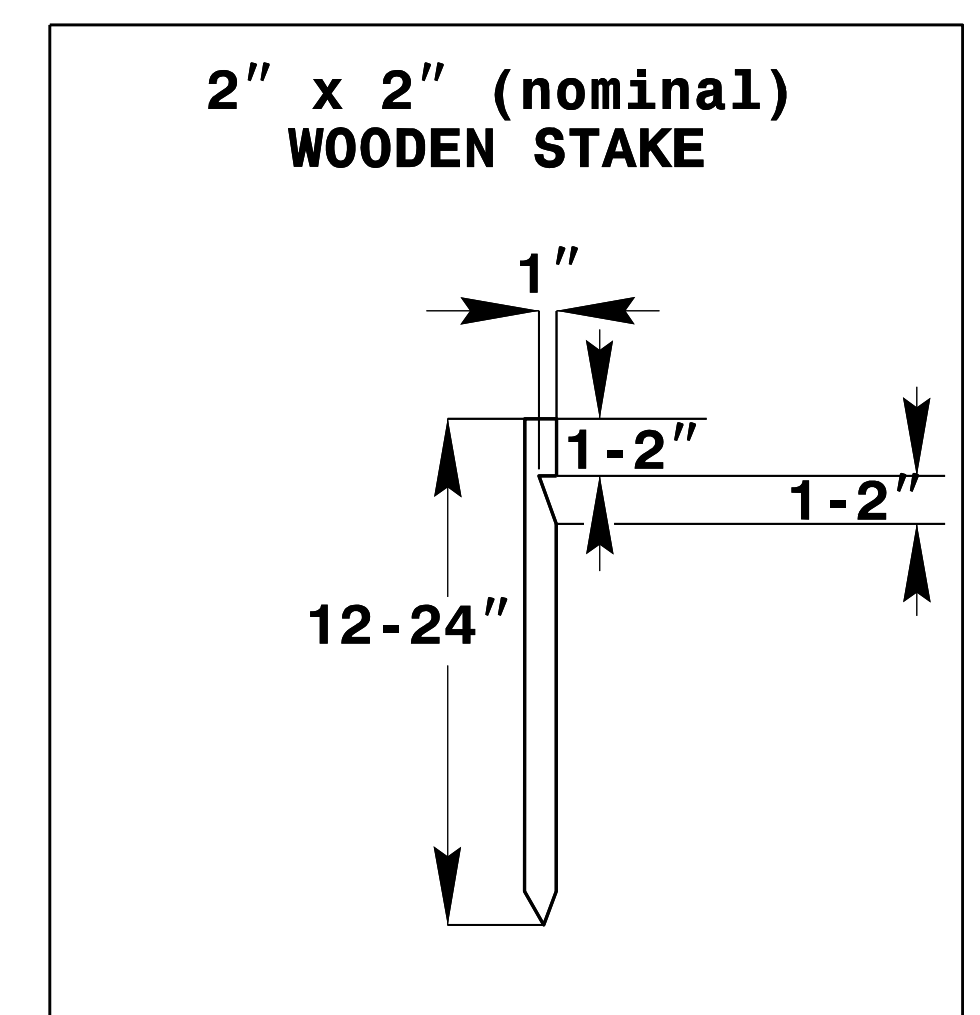
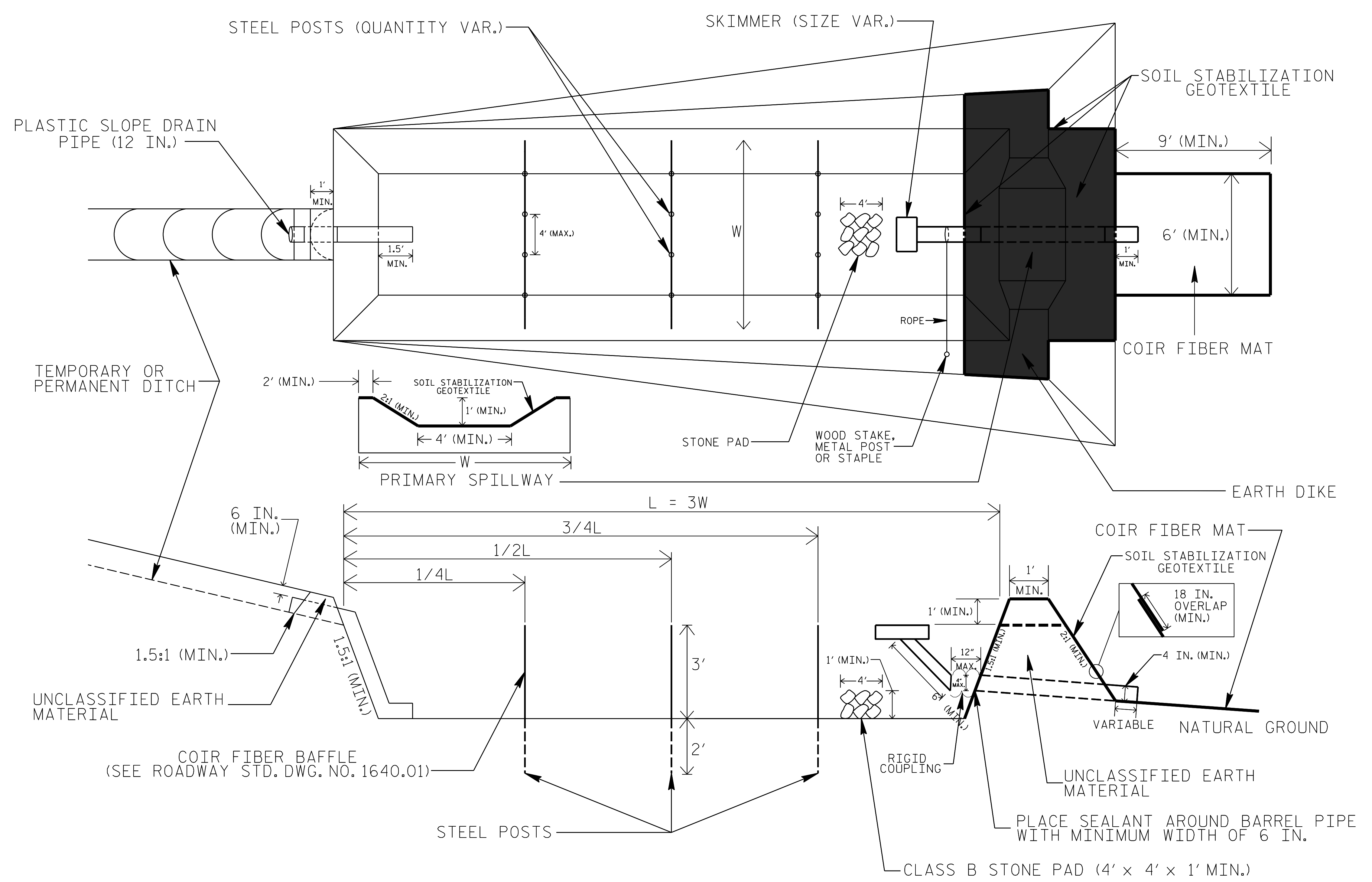
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PROJECT REFERENCE NO. U-2579AA	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# 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  $Q/0.8$ , 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 PRIMARY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

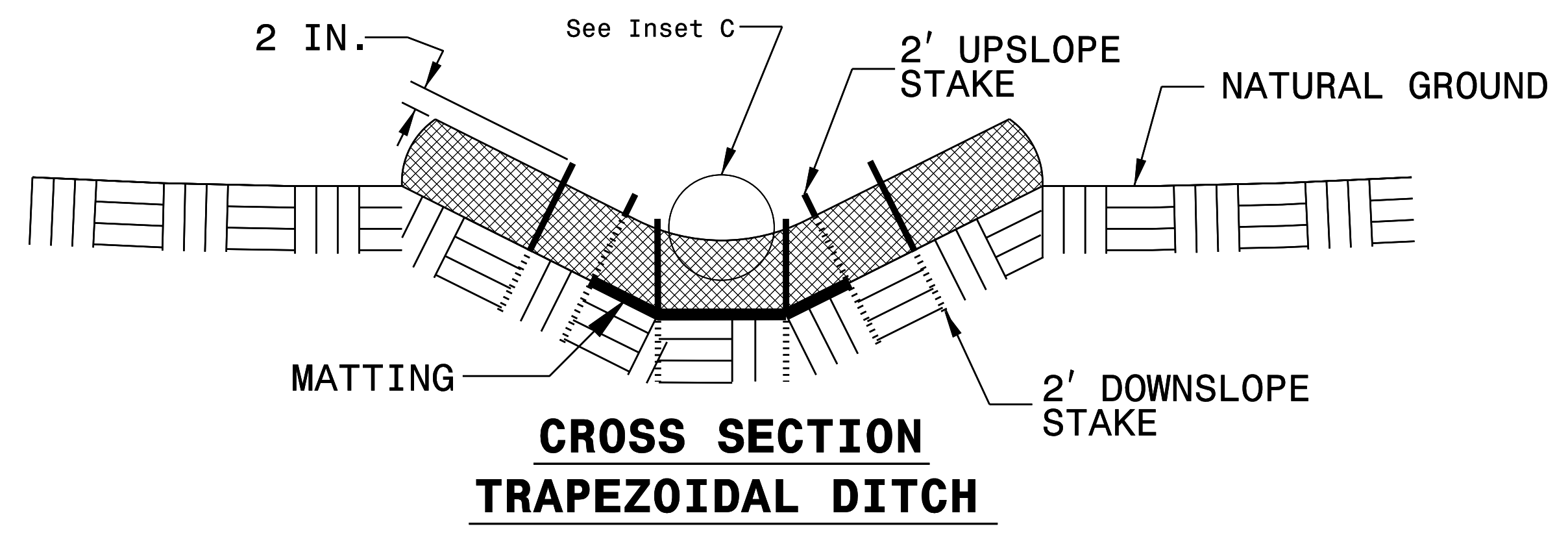
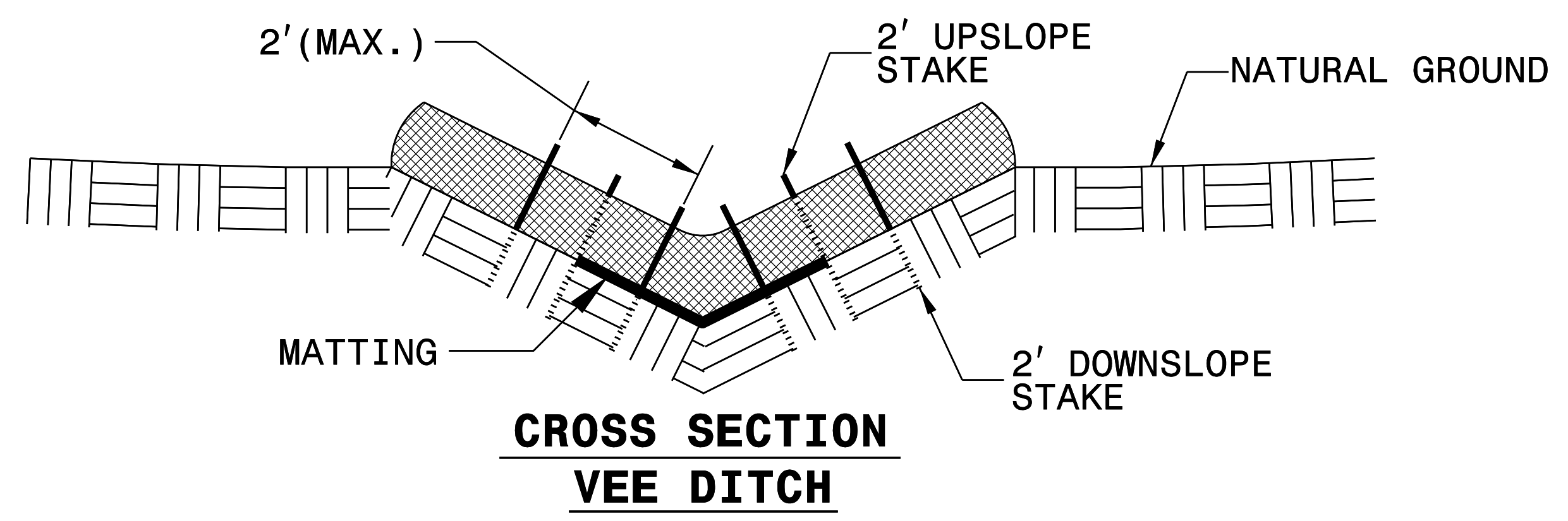
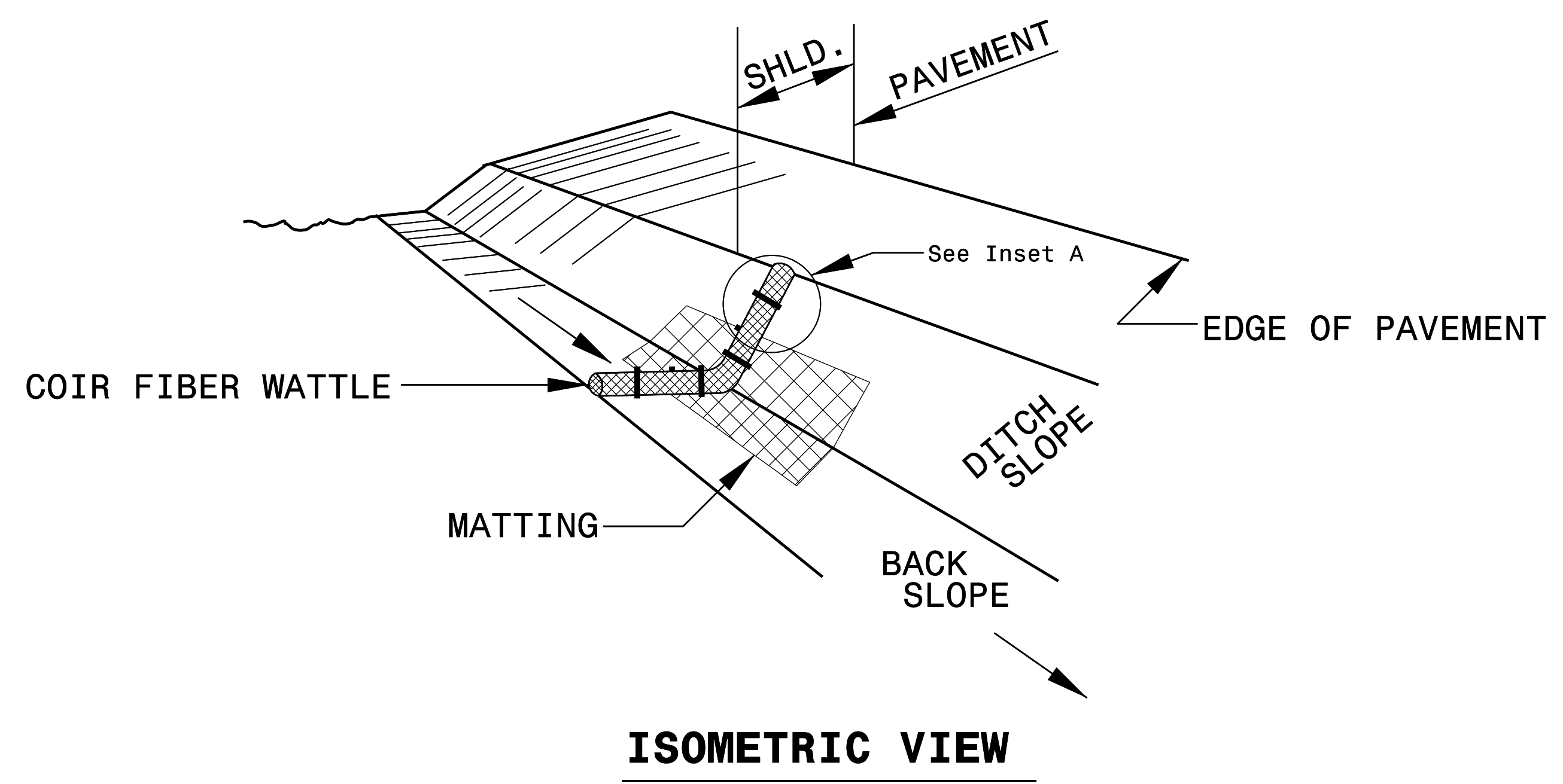
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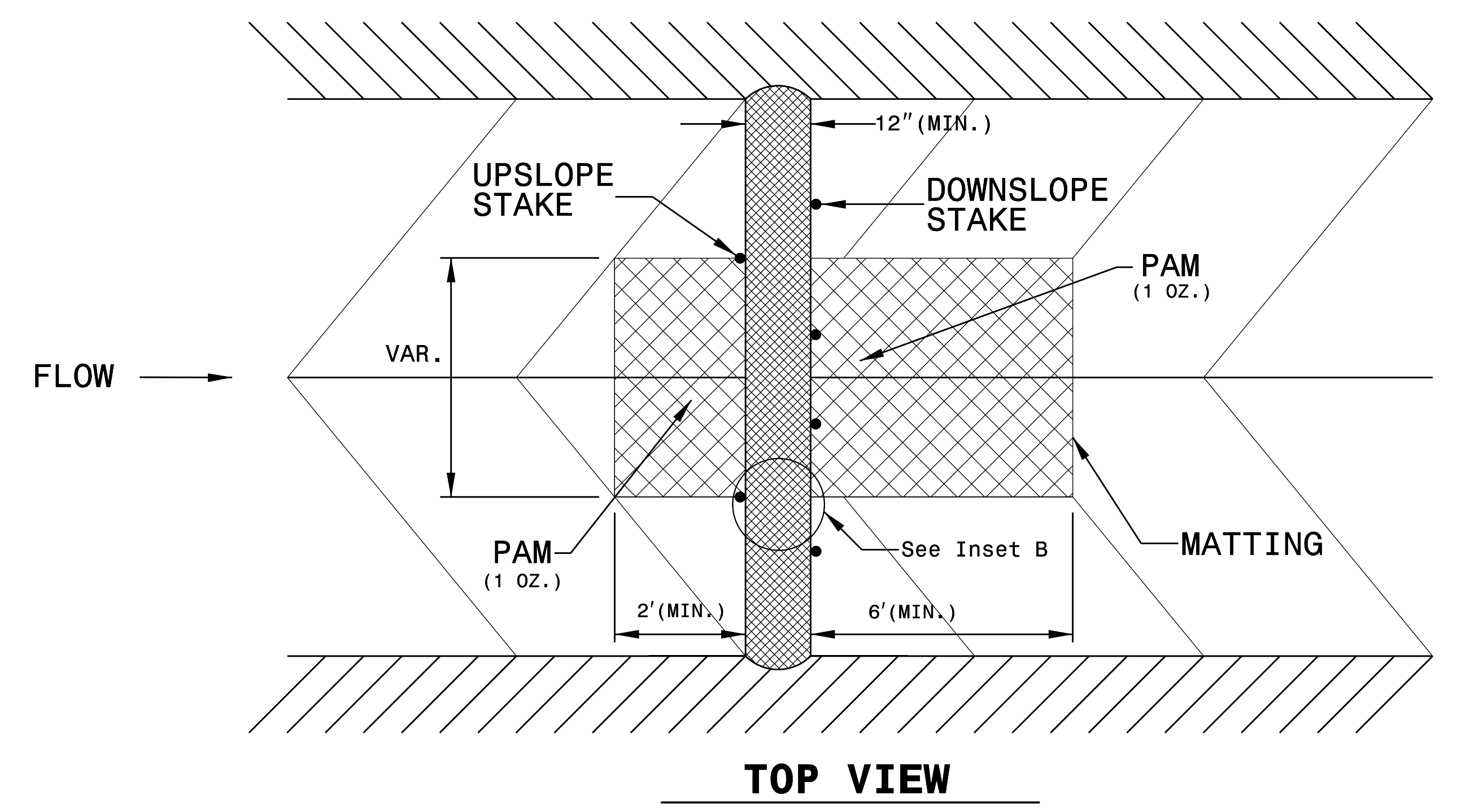
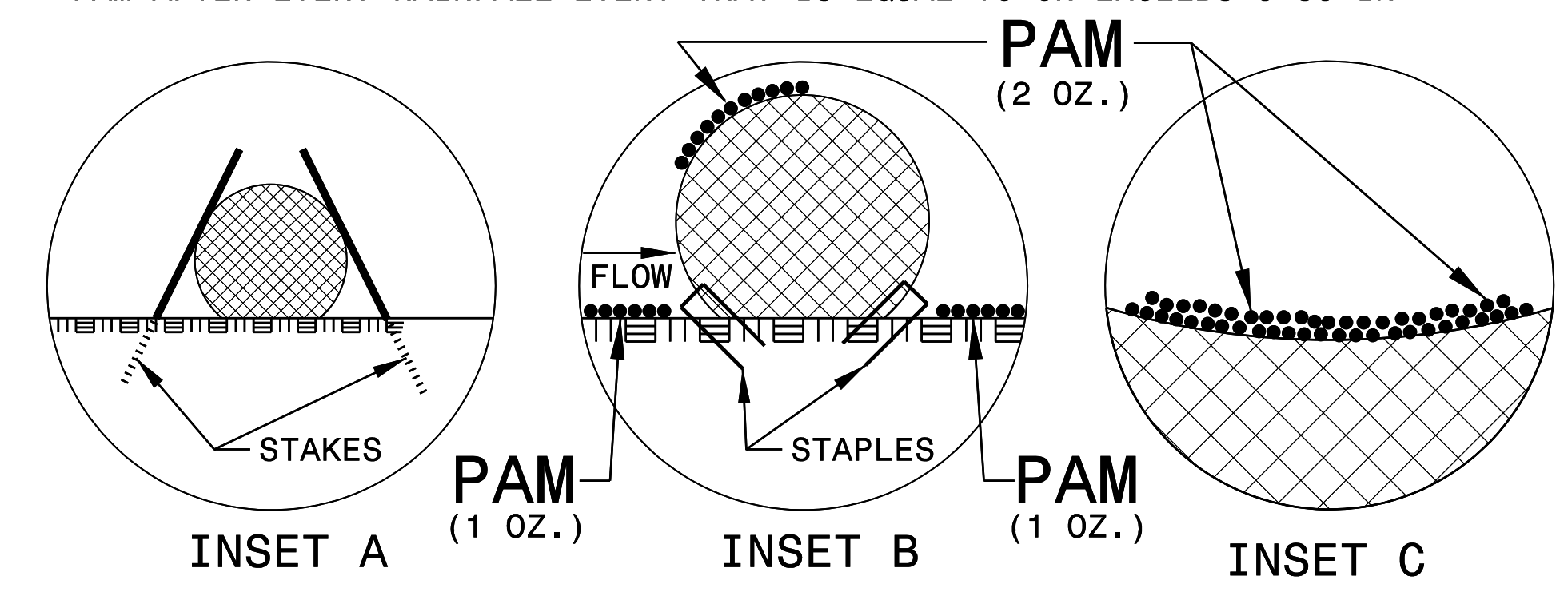


PROJECT REFERENCE NO. U-2579AA	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL

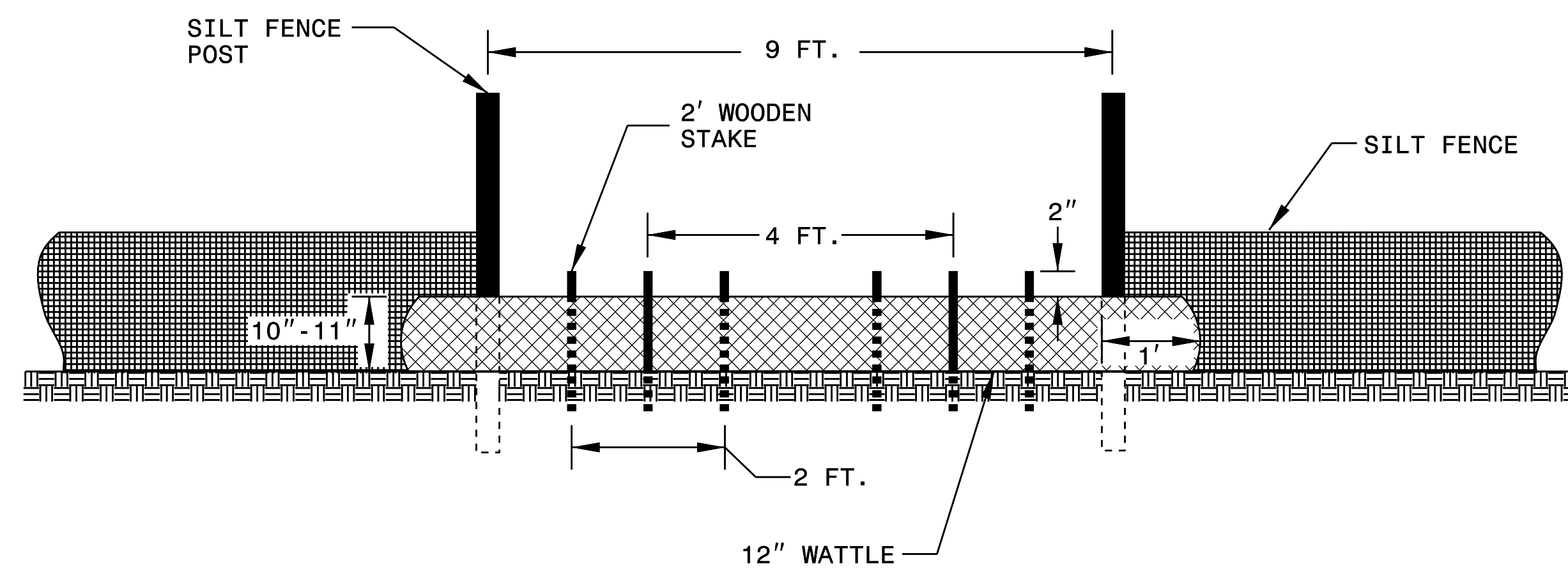
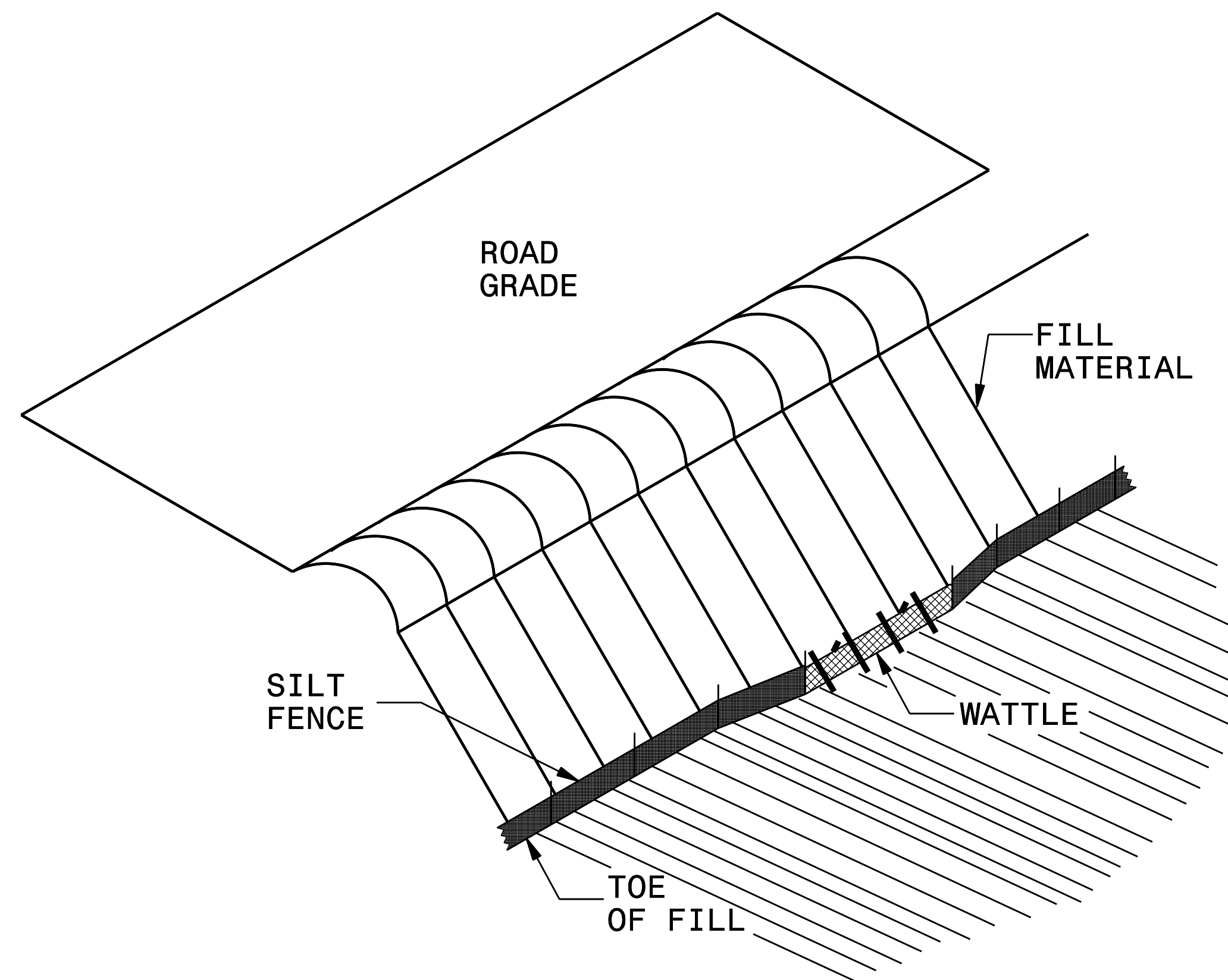


- NOTES:
- USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.
  - USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
  - ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
  - INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
  - PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
  - INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
  - INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.
  - PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.
  - INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



# SILT FENCE COIR FIBER WATTLE BREAK DETAIL

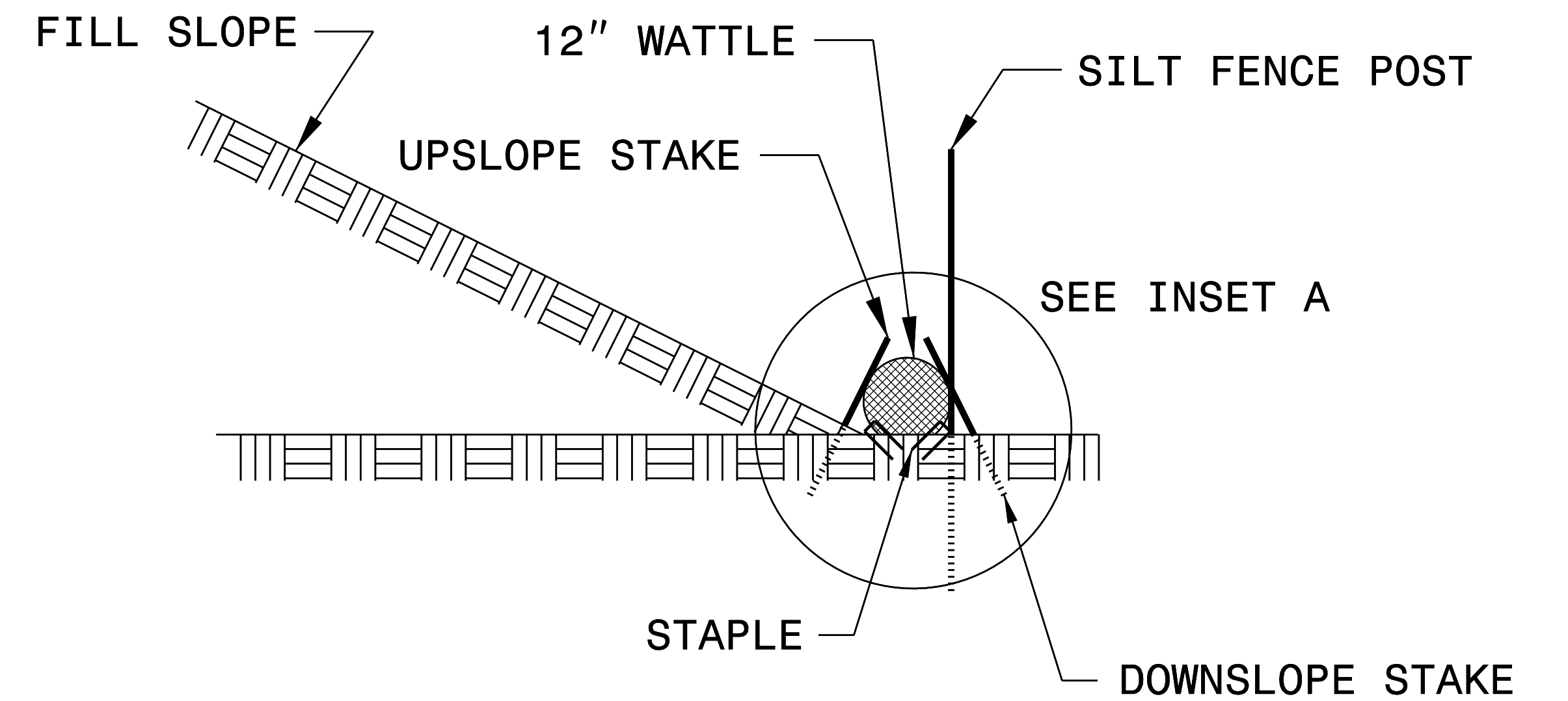
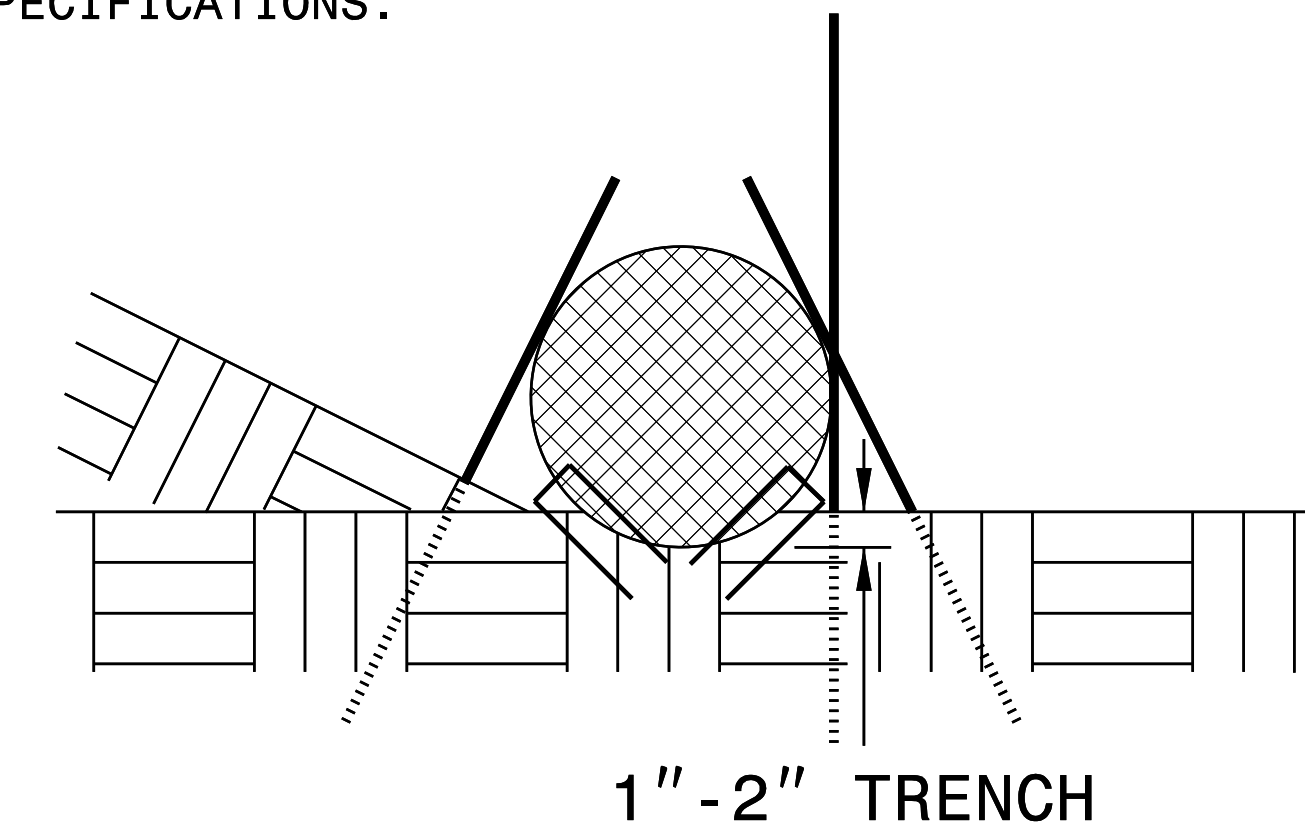
PROJECT REFERENCE NO. U-2579AA	SHEET NO. EC-2C
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



**NOTES:**

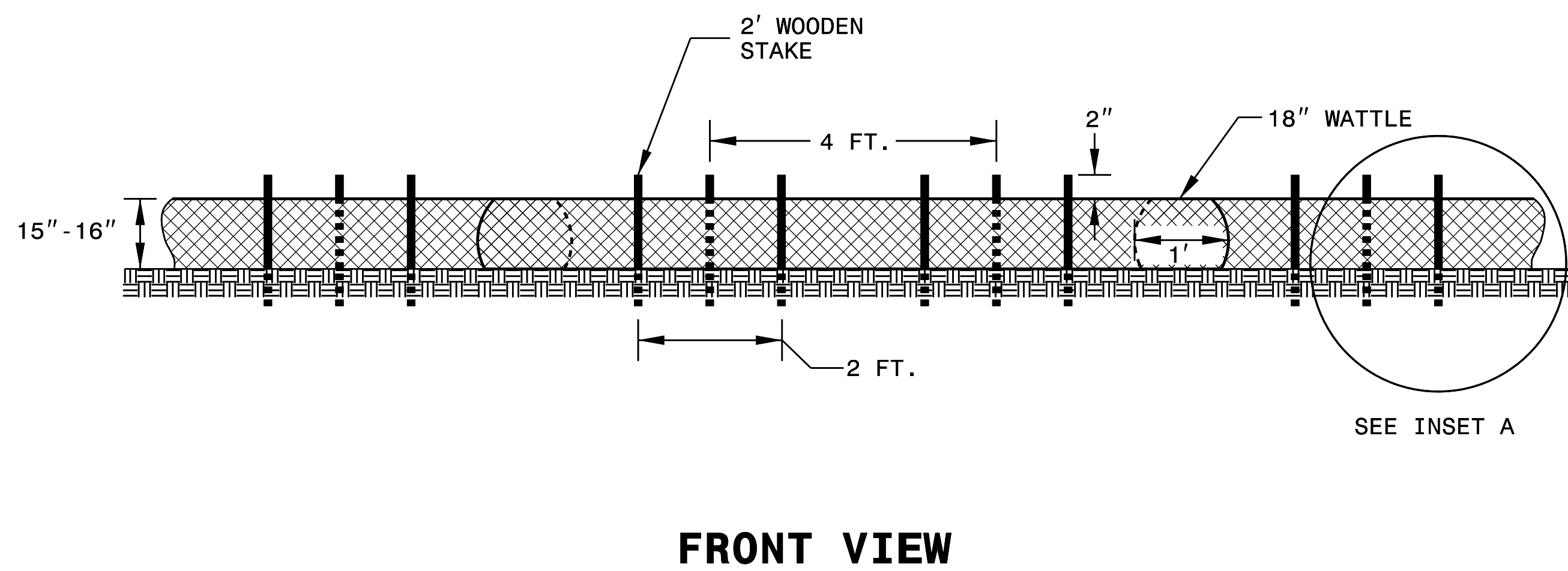
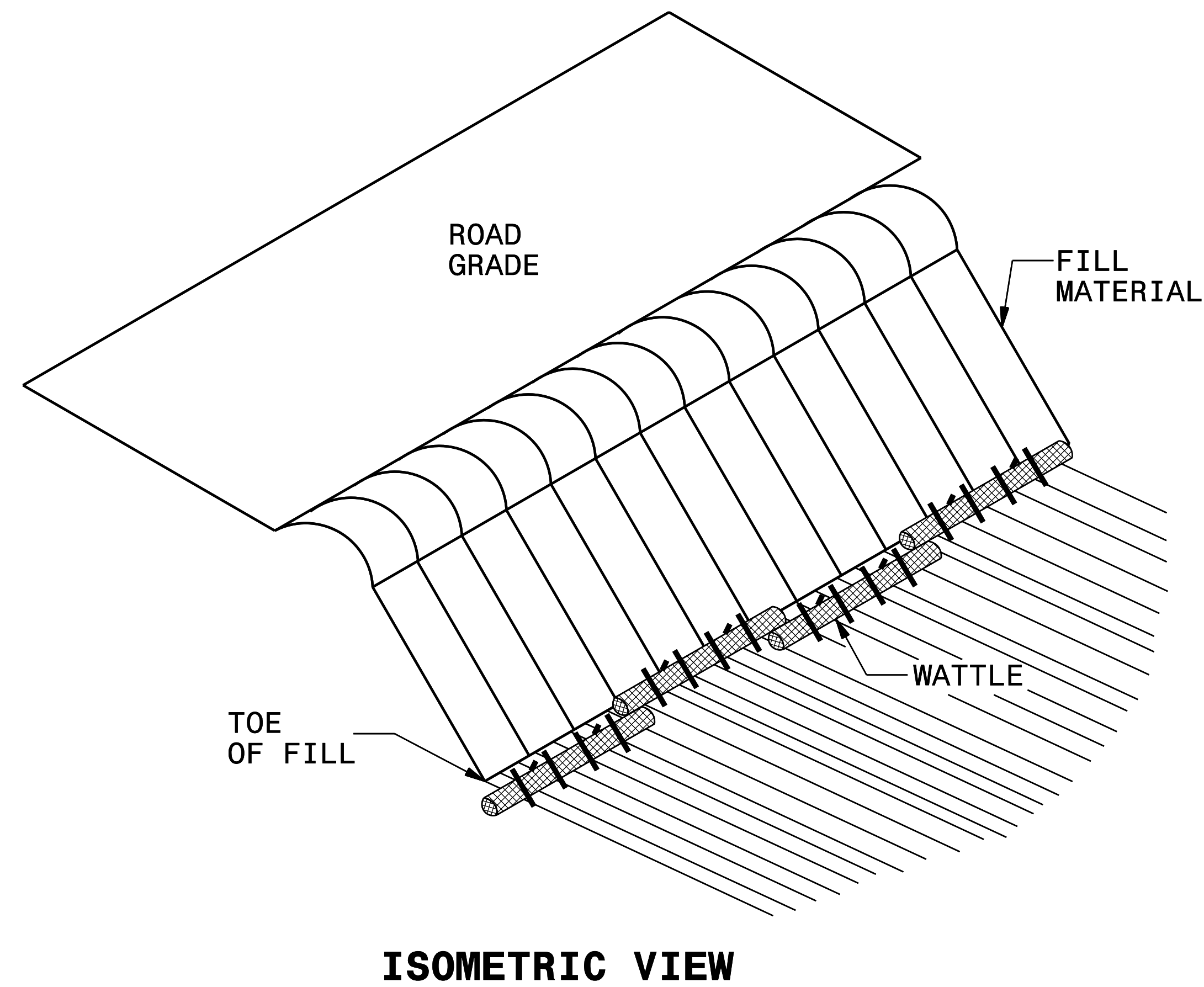
- USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE AND LENGTH OF 10 FT.
- EXCAVATE A 1 TO 2 INCH TRENCH FOR WATTLE TO BE PLACED.
- DO NOT PLACE WATTLE ON TOE OF SLOPE.
- USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
- INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE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

**INSET A**



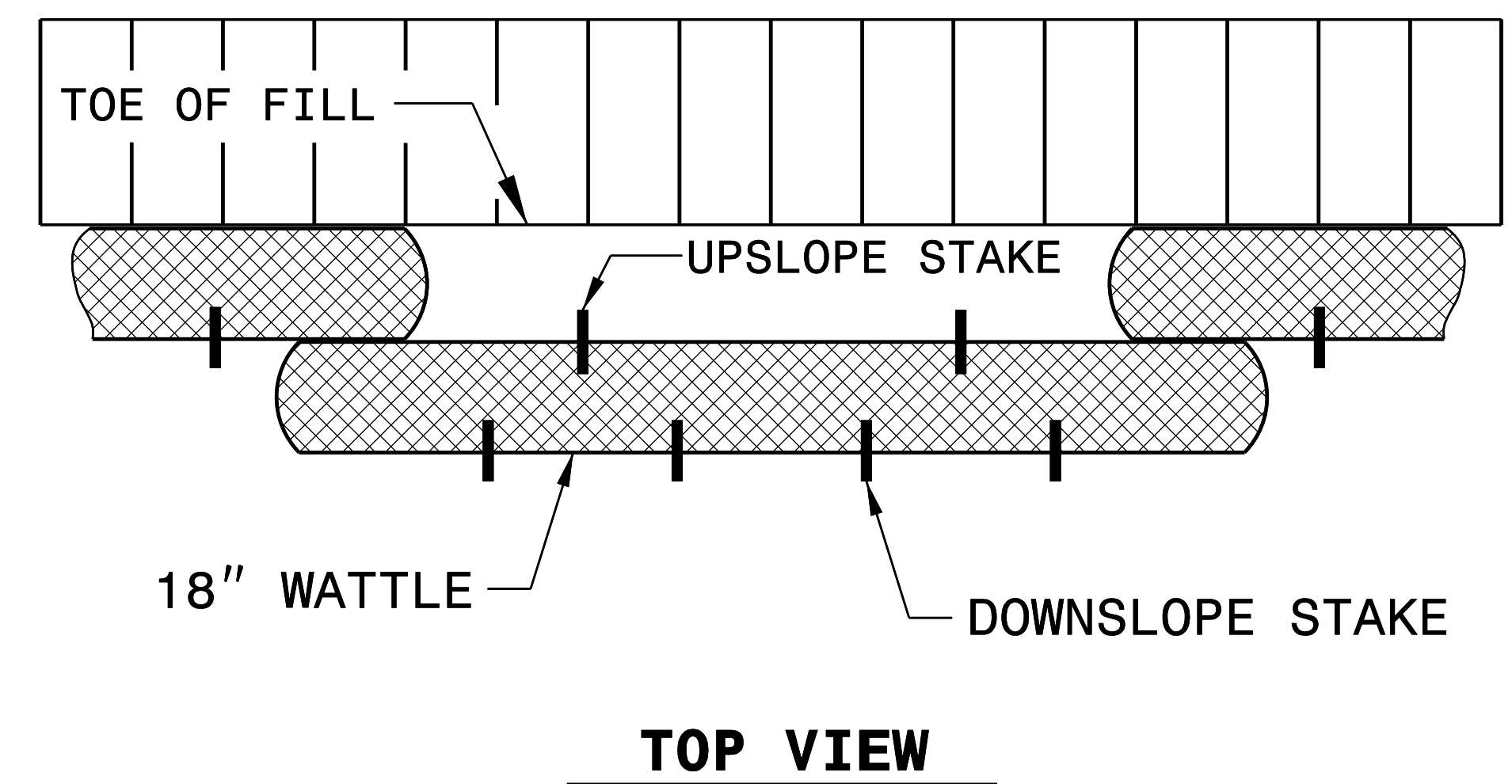
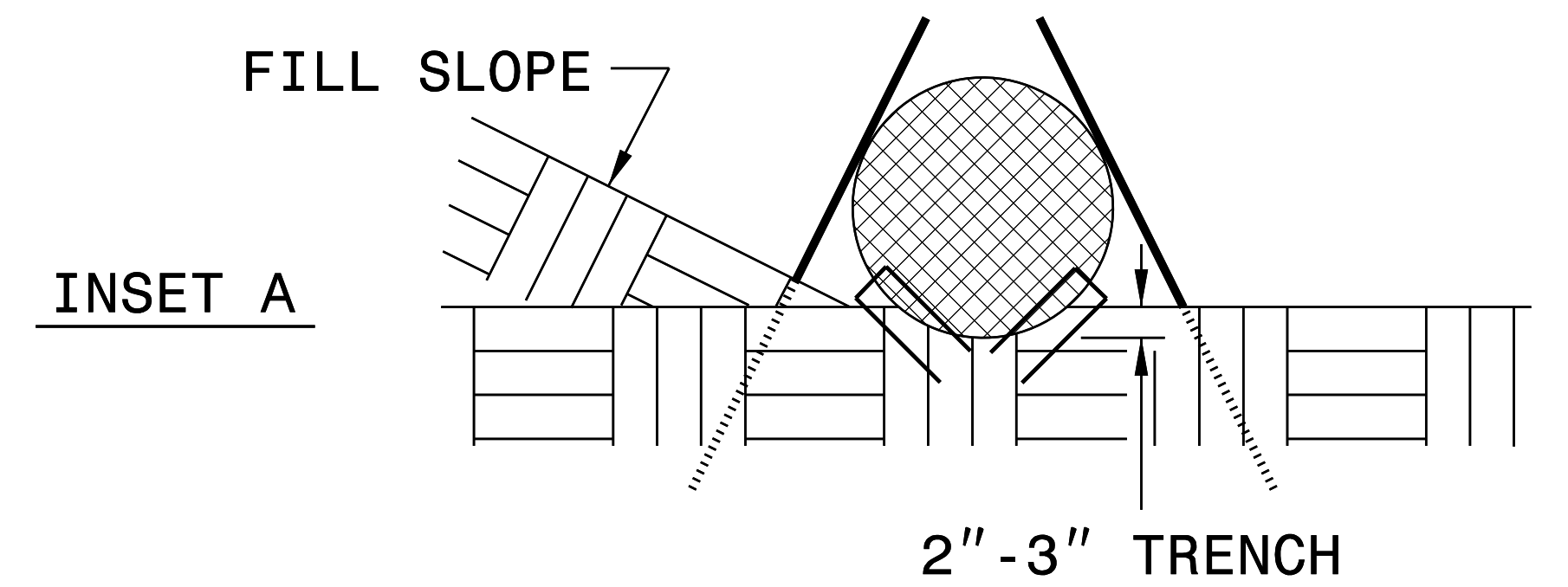
PROJECT REFERENCE NO. U-2579AA	SHEET NO. EC-2D
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# COIR FIBER WATTLE BARRIER DETAIL



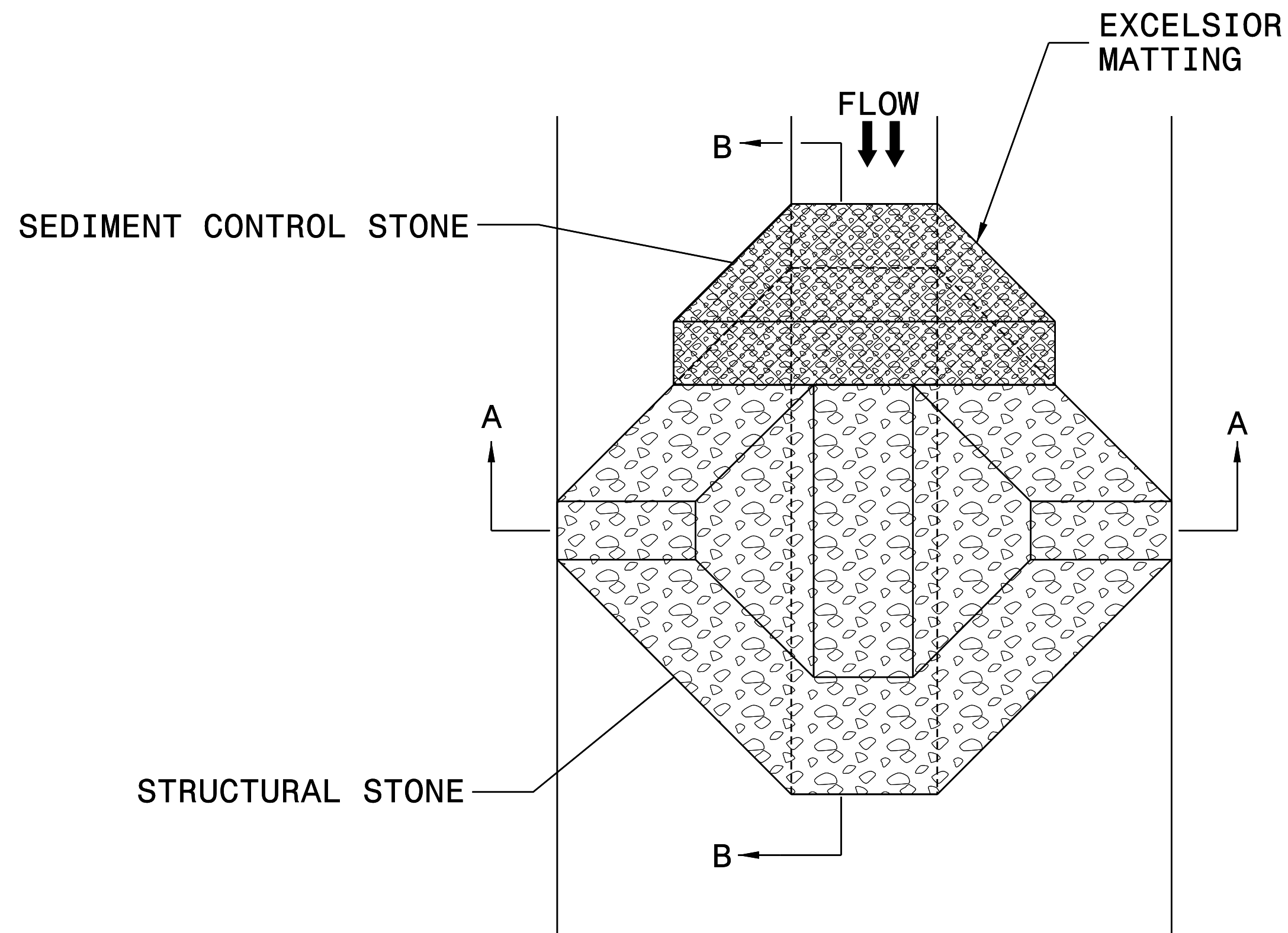
**NOTES:**

- USE MINIMUM 18 IN. NOMINAL DIAMETER COIR FIBER (COCONUT) WATTLE AND LENGTH OF 10 FT.
- EXCAVATE A 2 TO 3 INCH TRENCH FOR WATTLE TO BE PLACED.
- DO NOT PLACE WATTLES ON TOE OF SLOPE.
- USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
- INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.
- PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
- INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
- FOR BREAKS ALONG LARGE SLOPES, USE MAXIMUM SPACING OF 25 FT.



PROJECT REFERENCE NO. U-2579AA	SHEET NO. EC-2E
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



PLAN

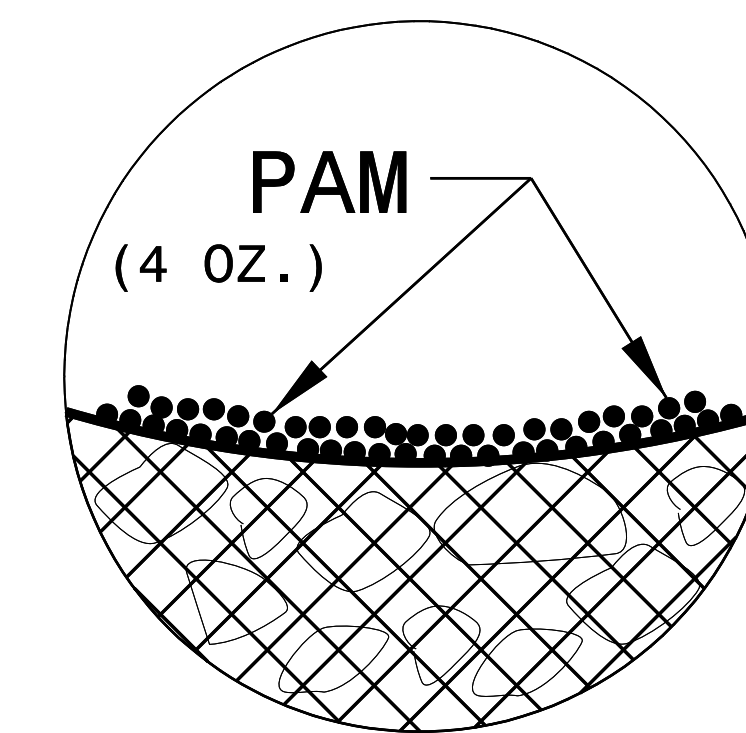
NOTES:

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

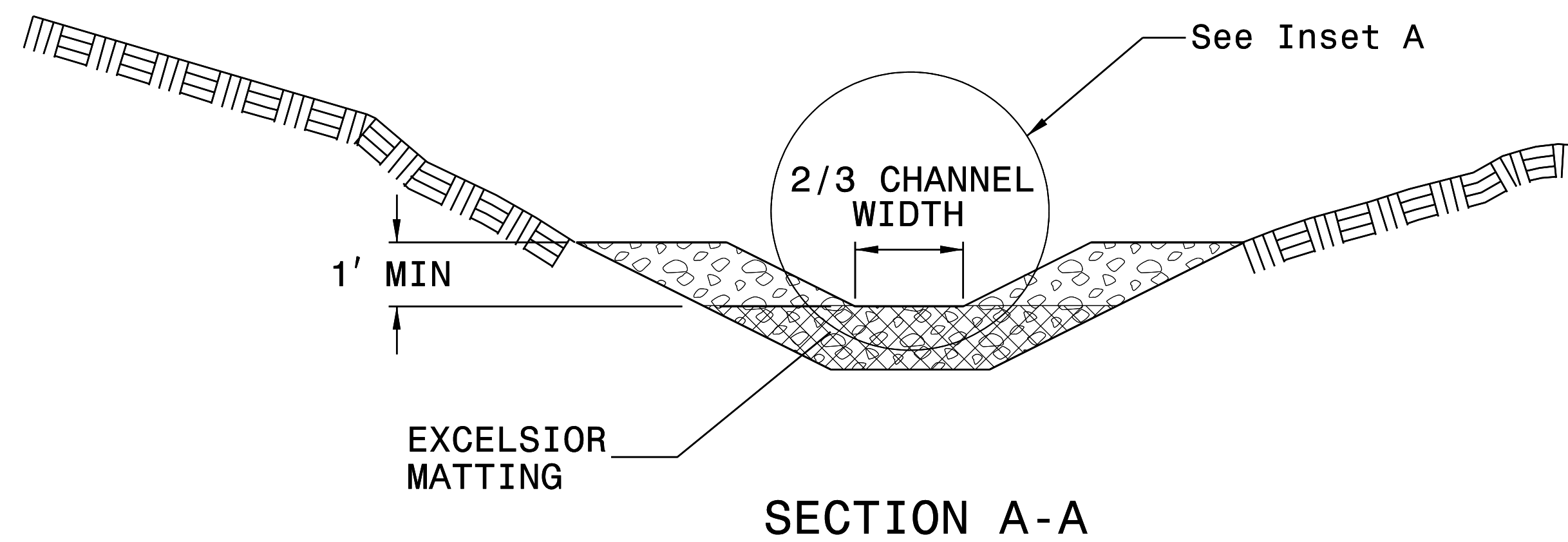
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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

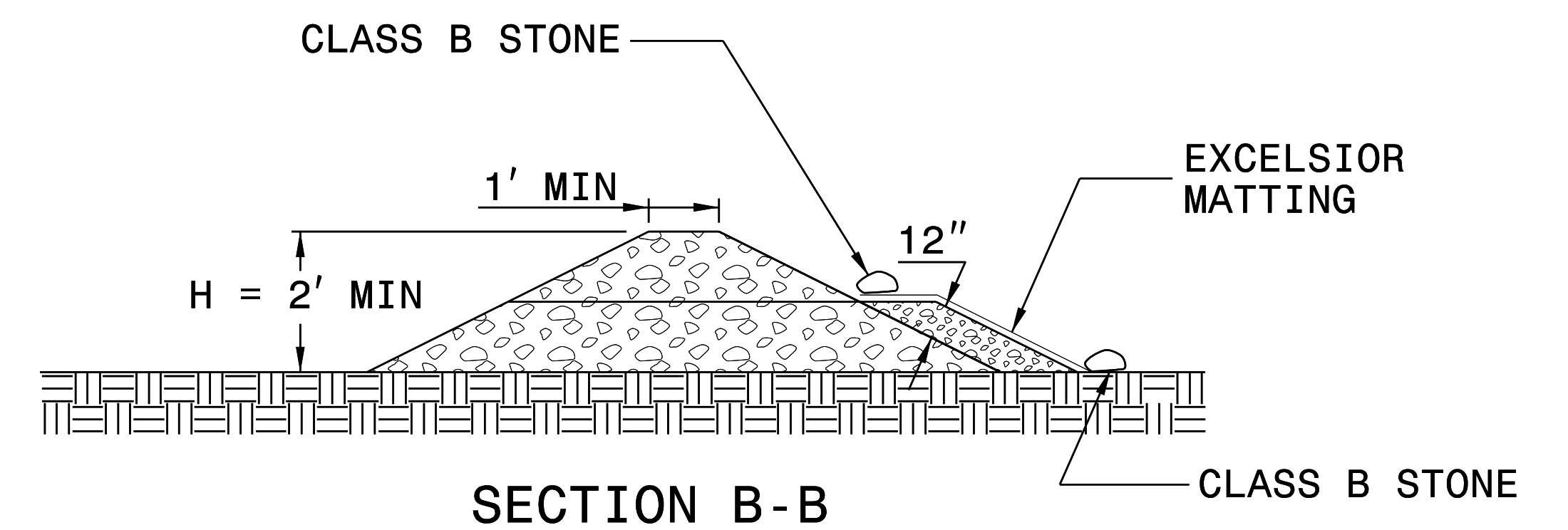
INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION A-A



SECTION B-B

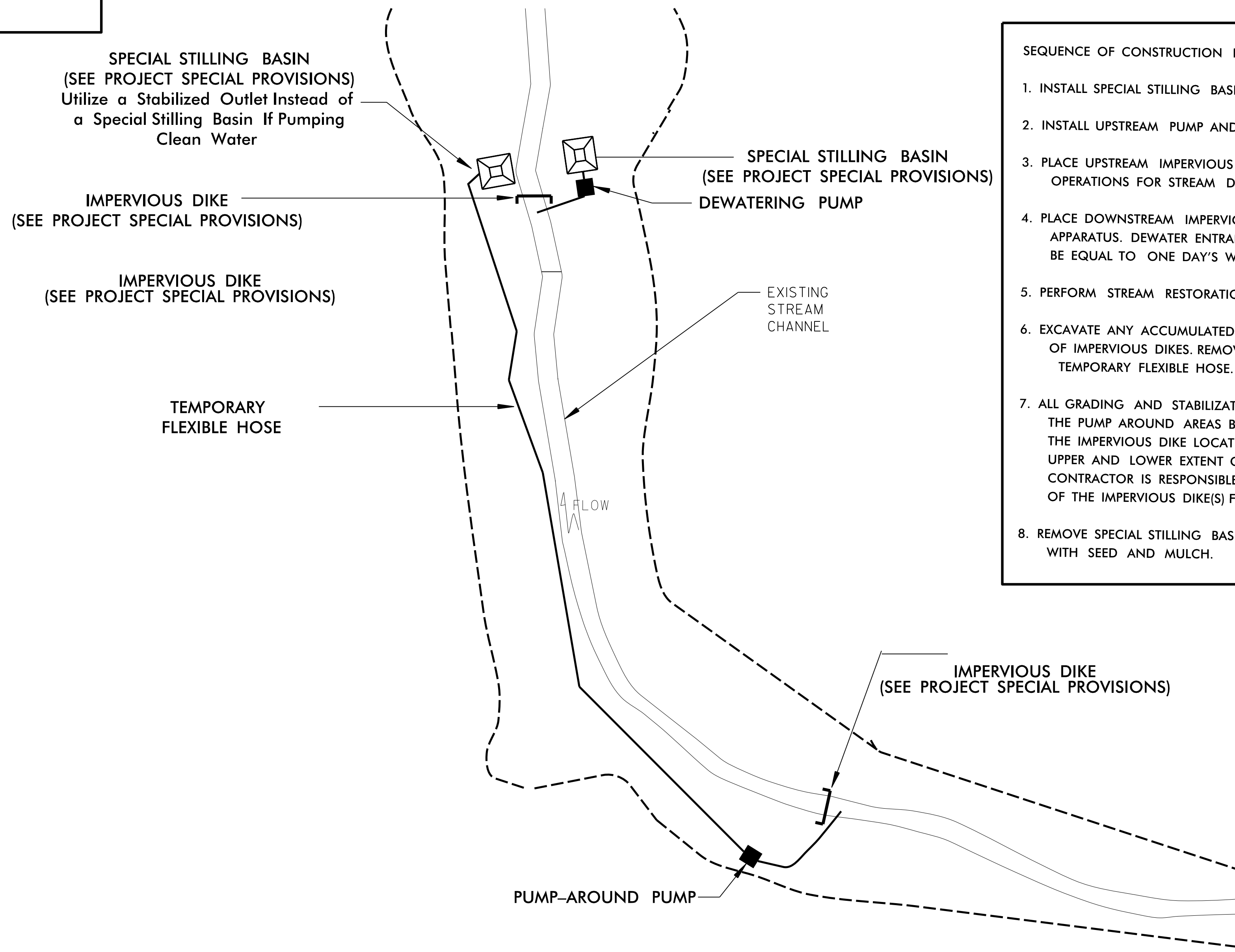
NOT TO SCALE



PROJECT REFERENCE NO.	SHEET NO.
U-2579AA	EC-2F
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# EXAMPLE OF PUMP-AROUND OPERATION

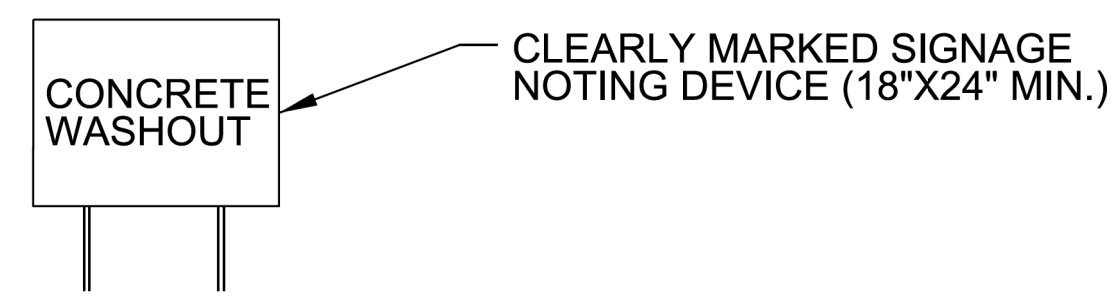
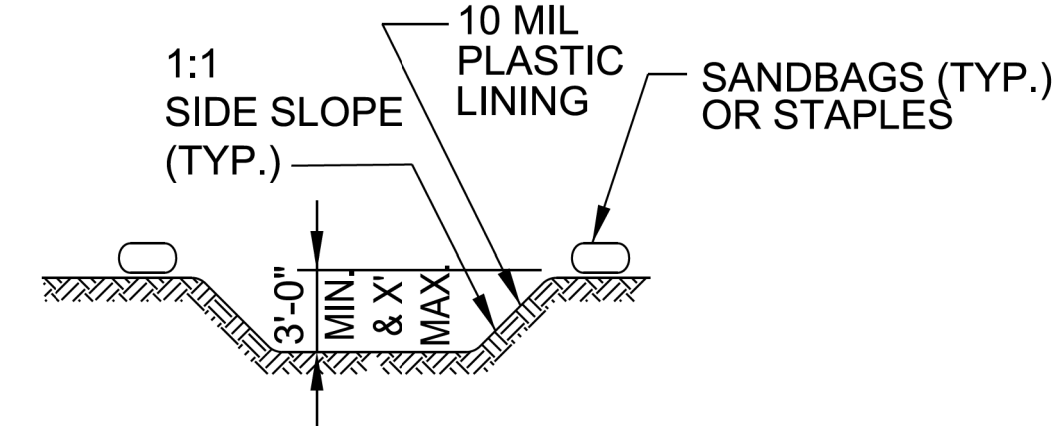
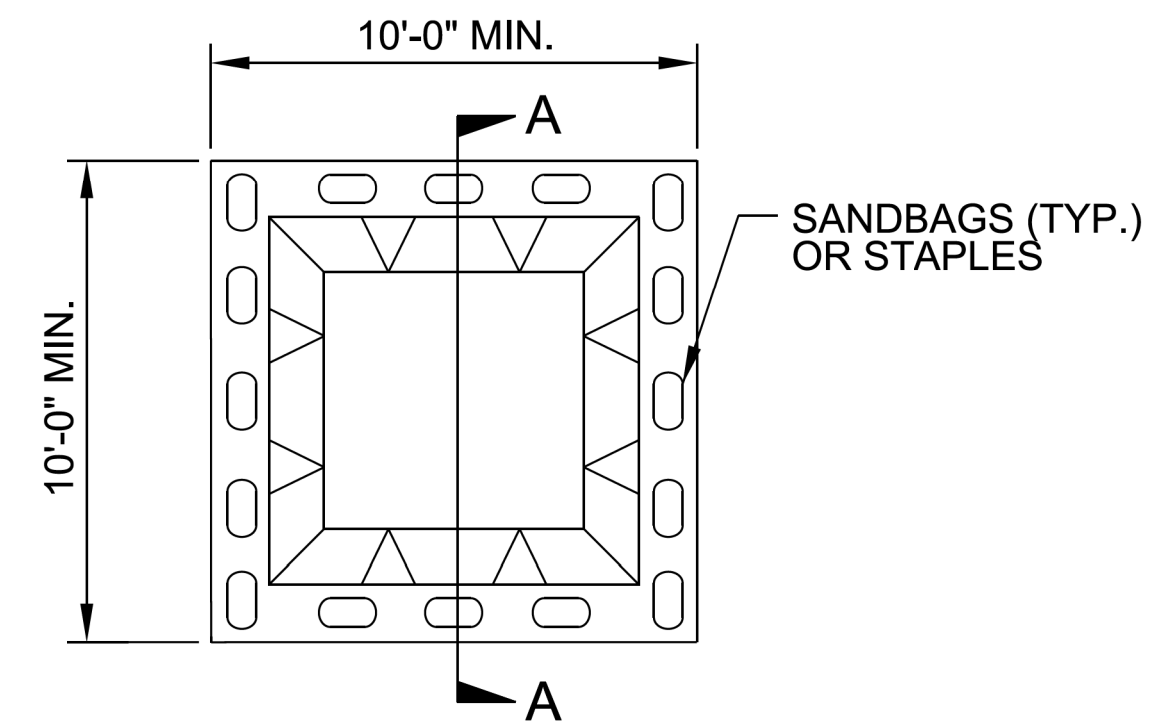
- NOTES:
- 1) All excavation shall be performed in only dry or isolated sections of channel.
  - 2) Impervious dikes are to be used to isolate work from stream flow when necessary.
  - 3) All graded areas shall be stabilized within 24 hours.
  - 4) Maintenance of stream flow operations shall be incidental to the work. This includes polyethylene sheeting, diversion pipes, pumps and hoses.
  - 5) Pumps and hoses shall be of sufficient size to dewater the work area.



- SEQUENCE OF CONSTRUCTION FOR TYPICAL WORK AREA
1. INSTALL SPECIAL STILLING BASIN(S).
  2. INSTALL UPSTREAM PUMP AND TEMPORARY FLEXIBLE HOSE.
  3. PLACE UPSTREAM IMPERVIOUS DIKE AND BEGIN PUMPING OPERATIONS FOR STREAM DIVERSION.
  4. PLACE DOWNSTREAM IMPERVIOUS DIKE AND PUMPING APPARATUS. DEWATER ENTRAPPED AREA. AREA TO BE DEWATERED SHALL BE EQUAL TO ONE DAY'S WORK.
  5. PERFORM STREAM RESTORATION WORK IN ACCORDANCE WITH THE PLANS.
  6. EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKES. REMOVE IMPERVIOUS DIKES, PUMPS, AND TEMPORARY FLEXIBLE HOSE. (DOWNSTREAM IMPERVIOUS DIKES FIRST).
  7. ALL GRADING AND STABILIZATION MUST BE COMPLETED IN ONE DAY WITHIN THE PUMP AROUND AREAS BETWEEN THE IMPERVIOUS DIKES. THE IMPERVIOUS DIKE LOCATIONS AS SHOWN ON THIS SHEET ONLY SHOW THE UPPER AND LOWER EXTENT OF WORK FOR EACH STREAM SEGMENT. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF THE IMPERVIOUS DIKE(S) FOR EACH DAY'S WORK.
  8. REMOVE SPECIAL STILLING BASIN(S) AND BACKFILL. STABILIZE DISTURBED AREA WITH SEED AND MULCH.

PROJECT REFERENCE NO. <i>U-2579AA</i>	SHEET NO. <i>EC-2G</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

## ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



### SECTION A-A

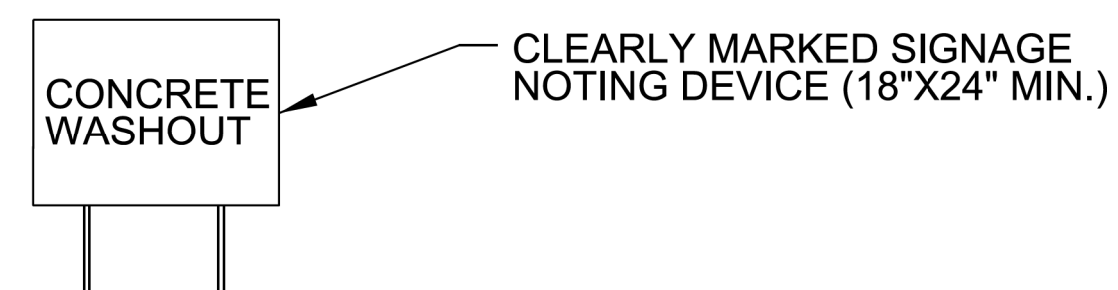
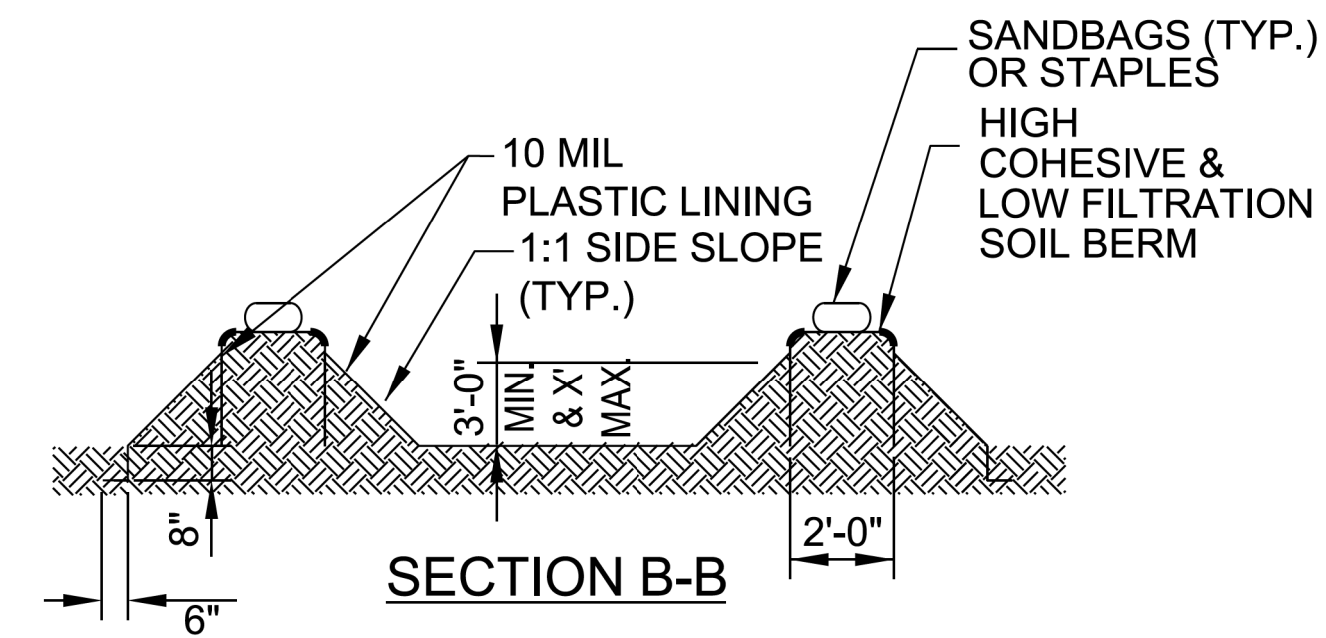
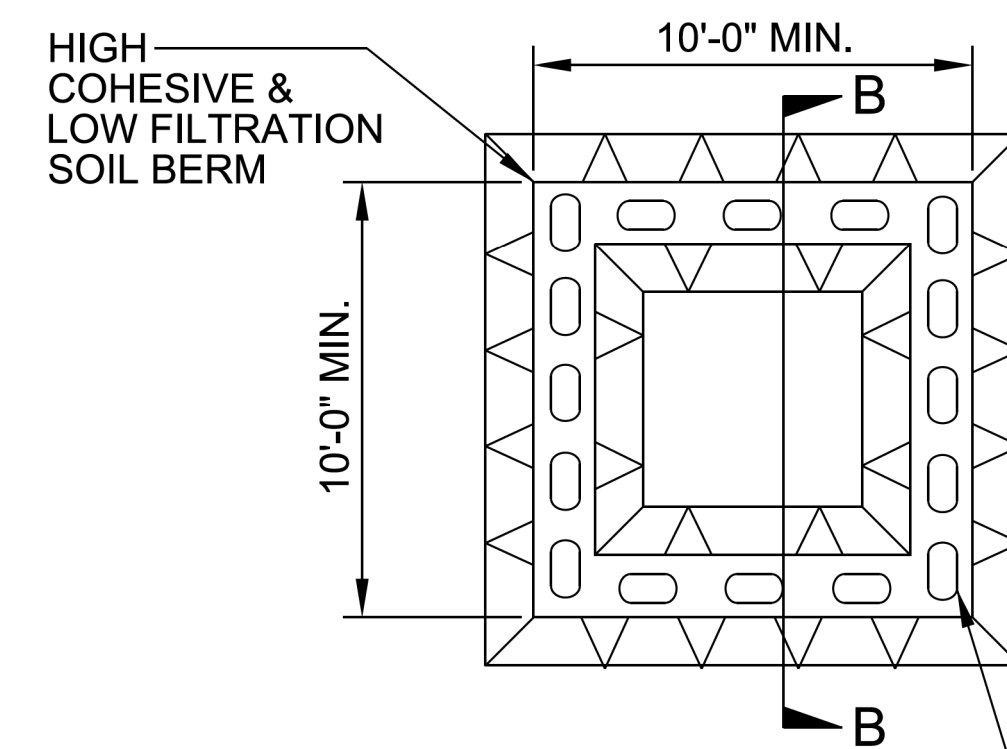
**NOTES:**

1. ACTUAL LOCATION DETERMINED IN FIELD
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY.
3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

PLAN

## BELOW GRADE WASHOUT STRUCTURE

NOT TO SCALE



**NOTES:**

1. ACTUAL LOCATION DETERMINED IN FIELD
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

PLAN

## ABOVE GRADE WASHOUT STRUCTURE

NOT TO SCALE

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. <i>U-2579AA</i>	SHEET NO. <i>EC-3</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**SOIL STABILIZATION SUMMARY SHEET**

**MATTING FOR EROSION CONTROL**

**MATTING FOR EROSION CONTROL**

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-L-	10+00	12+50	RT	465
4	-L-	19+50	26+50	RT	1180
5	-L-	37+50	38+50	RT	170
5	-L-	40+50	45+50	RT	845
6	-L-	56+00	85+00	RT	4885
5	-L-	27+00	28+00	LT	125
5	-L-	28+00	30+00	LT	250
5	-L-	30+00	31+00	LT	160
5	-L-	46+00	50+00	LT	675
6	-L-	50+00	51+50	LT	170
7	-L-	71+50	75+00	LT	360
7	-L-	75+00	75+50	LT	60
15	-YI-	13+00	15+00	RT	140
15	-YI-	13+00	15+00	LT	165
16	-YI-	18+00	19+50	LT	125
16	-YI-	19+50	21+50	LT	100
5	-YI-	25+00	27+00	LT	210
5	-YI-	37+00	39+50	LT	240
5	-YI-	46+00	47+43	LT	115
10	-Y250L-	12+00	13+00	RT	135
10	-Y250L-	15+50	19+00	RT	475
11	-Y250L-	23+00	25+50	RT	235
12	-Y250L-	36+50	44+00	RT	1010
12	-Y250L-	59+00	60+50	RT	170
13	-Y250L-	70+50	71+50	RT	115
13	-Y250L-	71+50	73+00	RT	170
14	-Y250L-	79+00	80+50	RT	110
14	-Y250L-	88+00	89+00	RT	95
14	-Y250L-	91+00	91+50	RT	50
10	-Y250L-	16+50	19+50	LT	340

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
10	-Y2N0L-	10+00	13+50	LT	470
11	-Y2N0L-	13+50	30+50	LT	1240
12	-Y2N0L-	30+50	35+00	LT	600
12	-Y2N0L-	47+50	50+50	LT	340
13	-Y2N0L-	53+00	54+50	LT	170
13	-Y2N0L-	54+50	56+00	LT	170
14	-Y2N0L-	90+00	90+50	LT	60
10	-Y2N0L-	10+00	11+00	RT	135
11	-Y2-	23+00	35+50	MED	2150
6	-Y2FLYAB-	19+00	19+50	RT	40
5	-Y2FLYAB-	31+50	37+00	RT	620
6	-Y2FLYAB-	17+50	20+00	LT	245
10	-Y2FLYAB-	31+50	32+50	LT	85
4	-Y2FLYCA-	54+50	55+00	RT	50
14	-Y2FLYCA-	23+00	26+00	LT	245
5	-Y2FLYCA-	51+00	52+50	LT	170
4	-Y2RP0-	14+00	18+50	RT	525
16	-Y2RP0-	19+00	22+50	RT	365
16	-Y2RP0-	23+50	38+00	RT	1630
14	-Y2RP0-	37+50	38+00	RT	40
14	-Y2RP0-	38+00	41+50	RT	245
14	-Y2RP0-	41+50	42+00	RT	45
10	-Y2RP0-	42+00	43+00	RT	75
10	-Y2RP0-	44+00	45+00	RT	90
10	-Y2RP0-	46+00	47+00	RT	115
4	-Y2RP0-	17+50	18+50	LT	120
16	-Y2RP0-	19+00	22+50	LT	365
5	-Y2RPC-	10+50	21+50	RT	1235
5	-Y2RPC-	24+00	25+00	RT	120
5	-Y2RPC-	14+50	17+50	LT	405







DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

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PROJECT REFERENCE NO. <i>U-2579AA</i>	SHEET NO. <i>EC-3C</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# ***SOIL STABILIZATION TIMEFRAMES***

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



8/17/99  
5/21/2022  
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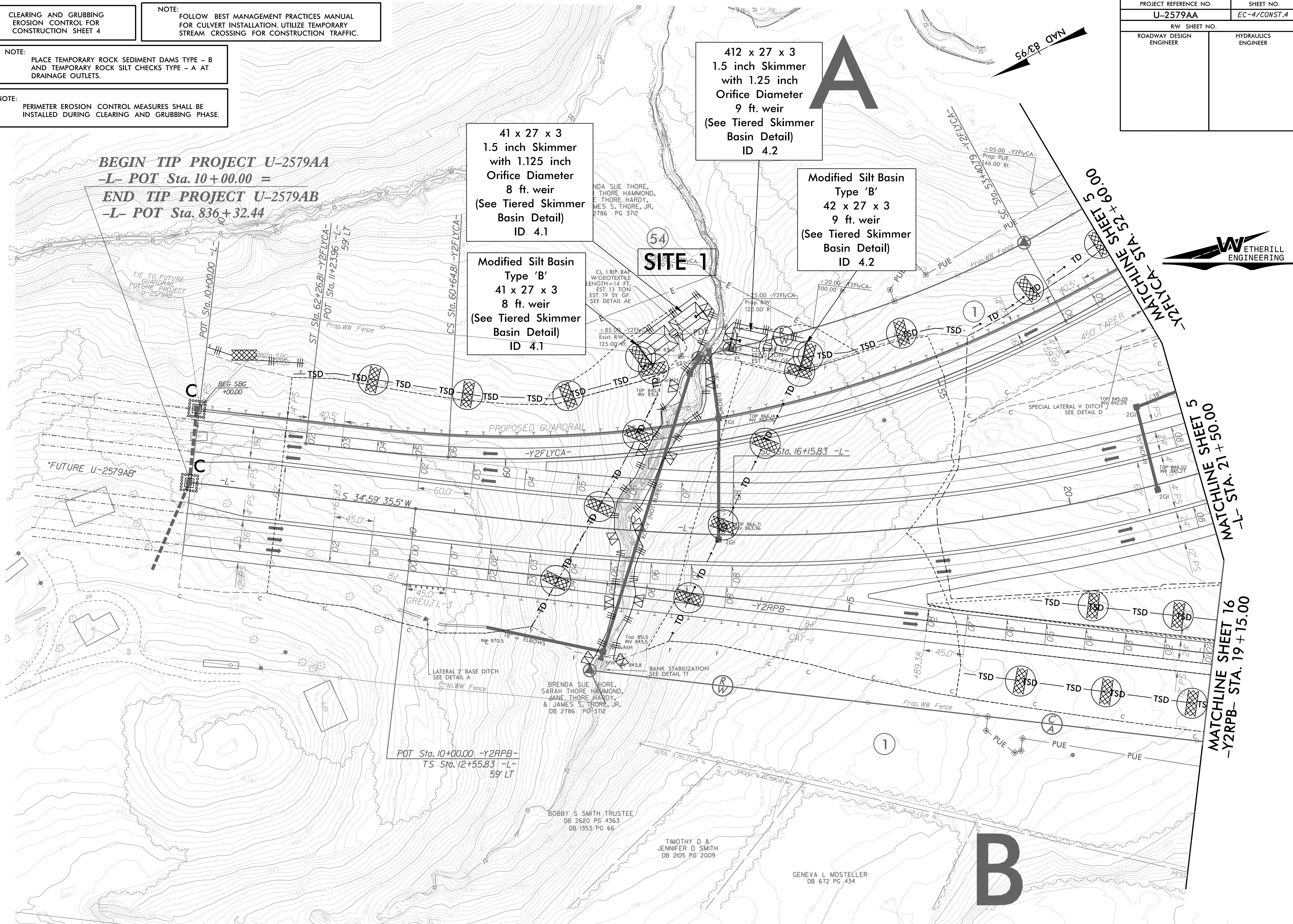
CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 4

NOTE:  
FOLLOW BEST MANAGEMENT PRACTICES MANUAL  
FOR CULVERT INSTALLATION. UTILIZE TEMPORARY  
STREAM CROSSING FOR CONSTRUCTION TRAFFIC.

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

NOTE:  
PERIMETER EROSION CONTROL MEASURES SHALL BE  
INSTALLED DURING CLEARING AND GRUBBING PHASE.

PROJECT REFERENCE NO. <b>U-2579AA</b>	SHEET NO. <b>EC-4/CONST.4</b>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



**BEGIN TIP PROJECT U-2579AA**  
**-L- POT Sta. 10+00.00 =**  
**END TIP PROJECT U-2579AB**  
**-L- POT Sta. 836+32.44**

41 x 27 x 3  
1.5 inch Skimmer  
with 1.125 inch  
Orifice Diameter  
8 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 4.1

412 x 27 x 3  
1.5 inch Skimmer  
with 1.25 inch  
Orifice Diameter  
9 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 4.2

Modified Silt Basin  
Type 'B'  
42 x 27 x 3  
9 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 4.2

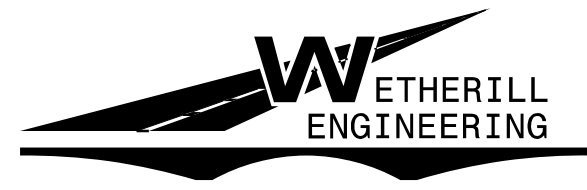
Modified Silt Basin  
Type 'B'  
41 x 27 x 3  
8 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 4.1

"FUTURE U-2579AB"

MATCHLINE SHEET 5  
-L- STA. 21+50.00

MATCHLINE SHEET 16  
-Y2RPB- STA. 19+15.00

POT Sta. 10+00.00 -Y2RPB-  
TS Sta. 12+55.83 -L-  
59' LT



**B**

**A**

NAD  
668395

54  
**SITE 1**

1

GENEVA L. MOSTELLER  
DB 672 PG 434

BOBBY S. SMITH TRUSTEE  
DB 2620 PG 4363  
DB 1353 PG 66

TIMOTHY D. &  
JENNIFER D. SMITH  
DB 2105 PG 2009

BRENDA SUE THORE,  
SARAH THORE HAMMOND,  
JANE THORE HARDY,  
& JAMES S. THORE, JR.  
DB 2786 PG 3712

NDA SUE THORE,  
THORE HAMMOND,  
THORE HARDY,  
JAMES S. THORE, JR.  
DB 2786 PG 3712

CL. RIP RAP  
W/GEOTEXTILE  
LENGTH=14 FT.  
EST. 13 TON  
EST. 19 SY GF.  
SEE DETAIL AE

Modified Silt Basin  
Type 'B'  
41 x 27 x 3  
8 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 4.1

Prop. RW  
125.00' R

Prop. RW  
100.00' R

Prop. RW  
125.00' R

Prop. RW  
125.00' R

Prop. RW  
125.00' R

Prop. RW  
125.00' R

Prop. RW  
125.00' R

Prop. RW  
125.00' R

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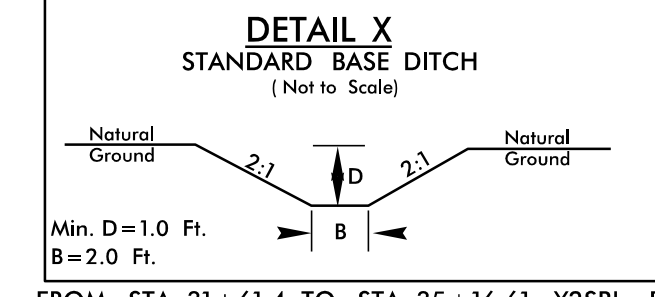
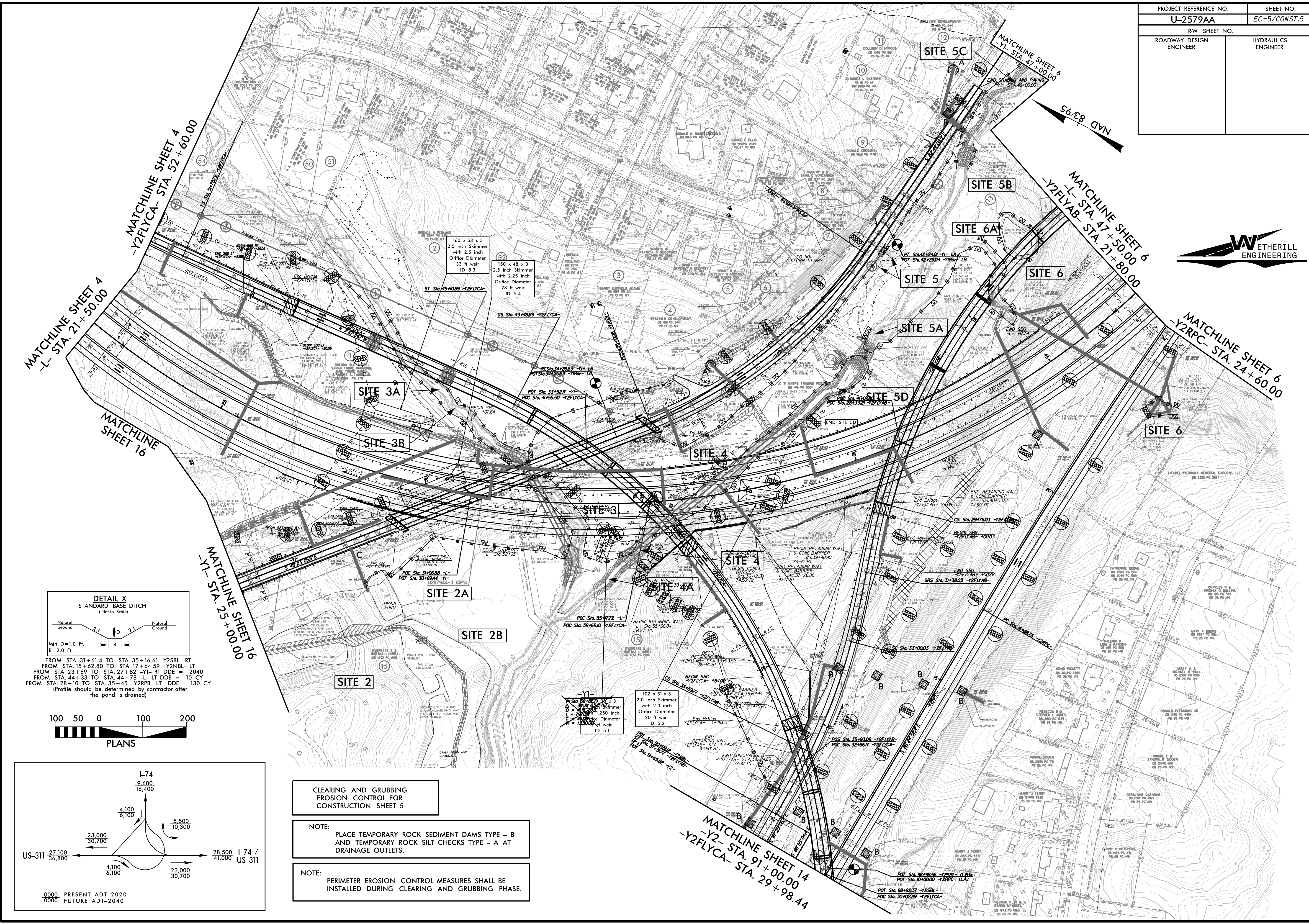
Prop. RW  
125.00' R



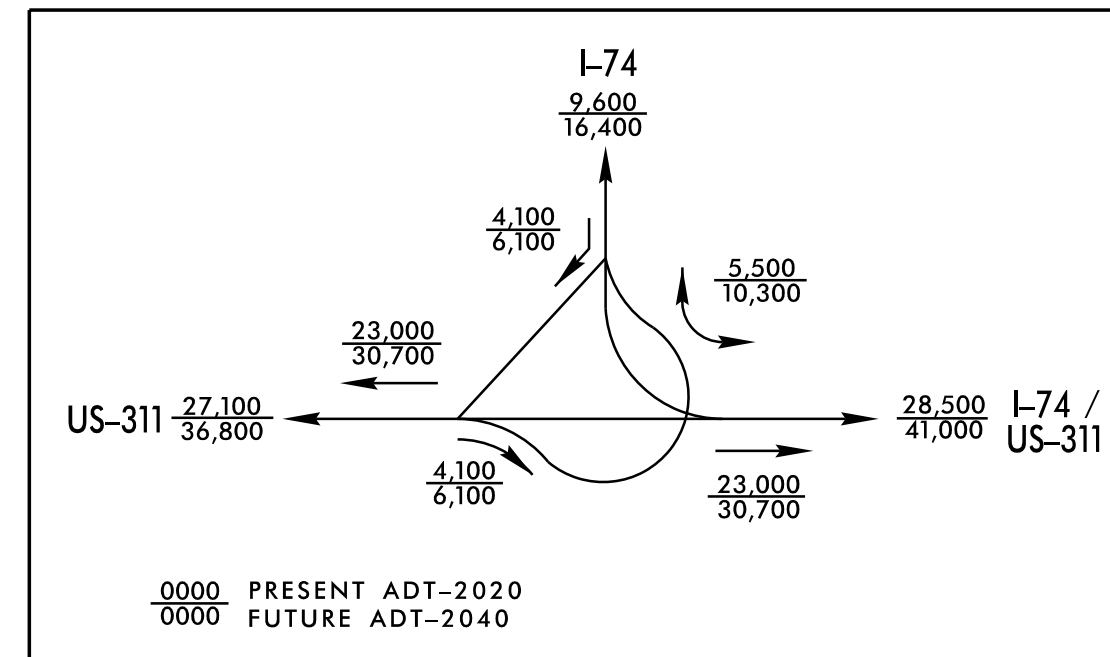
PROJECT REFERENCE NO.	SHEET NO.
U-2579AA	EC-5/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



REVISIONS



FROM STA. 31+61.4 TO STA. 35+16.61 -Y2SBL- RT  
FROM STA. 15+62.80 TO STA. 17+64.59 -Y2NBL- LT  
FROM STA. 23+69 TO STA. 27+82 -Y1- RT DDE = 2040  
FROM STA. 44+33 TO STA. 44+78 -LT DDE = 10 CY  
FROM STA. 28+10 TO STA. 35+45 -Y2RFB- LT DDE = 130 CY  
(Profile should be determined by contractor after the pond is drained)



**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.

**NOTE:**  
PERIMETER EROSION CONTROL MEASURES SHALL BE  
INSTALLED DURING CLEARING AND GRUBBING PHASE.

8/17/99

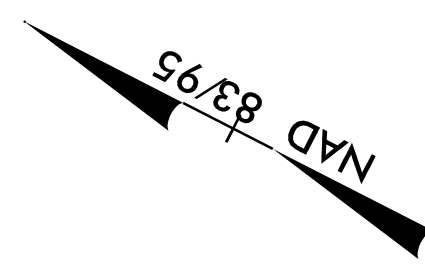
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PROJECT REFERENCE NO.	SHEET NO.
U-2579AA	EC-5A/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

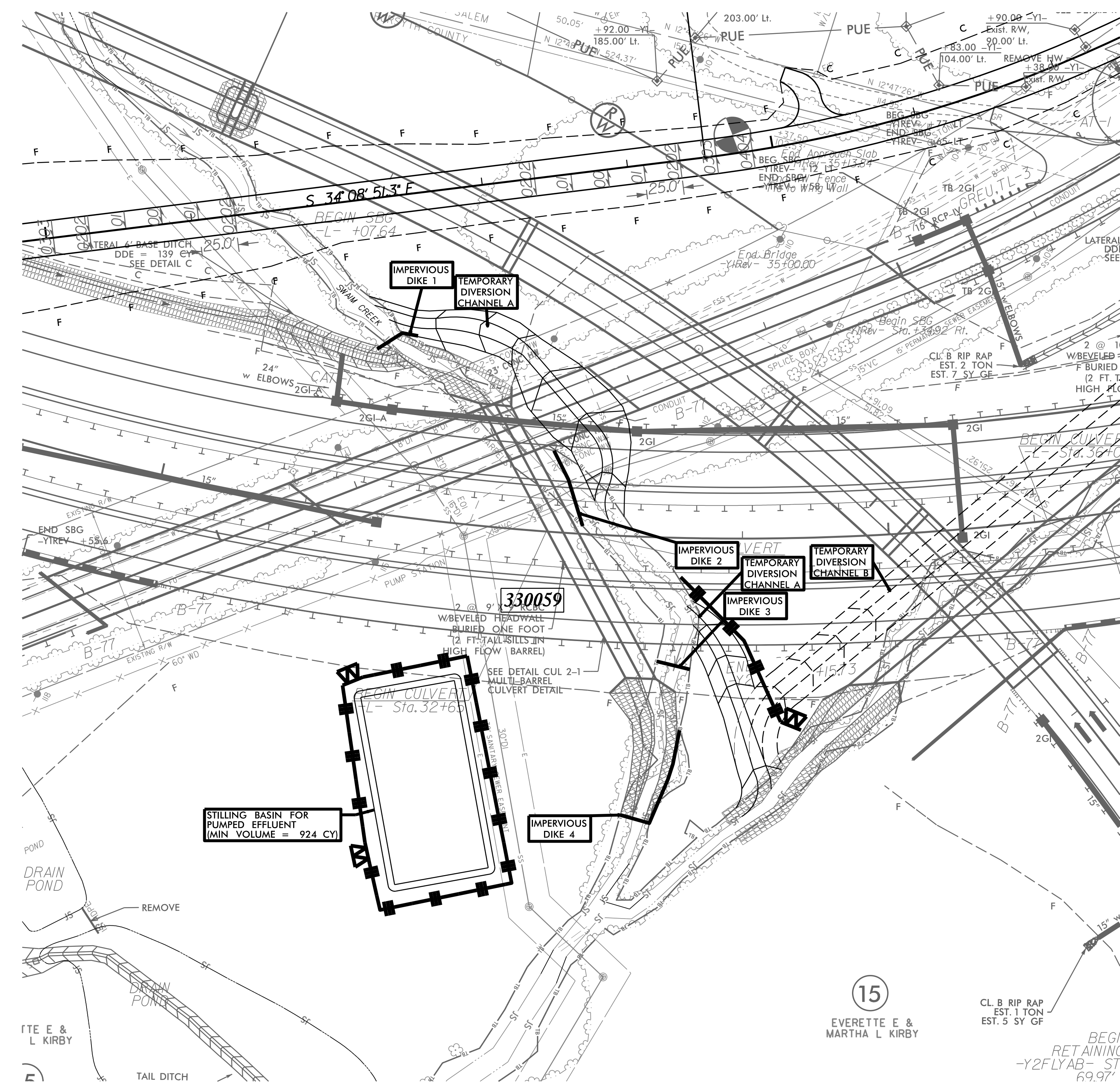
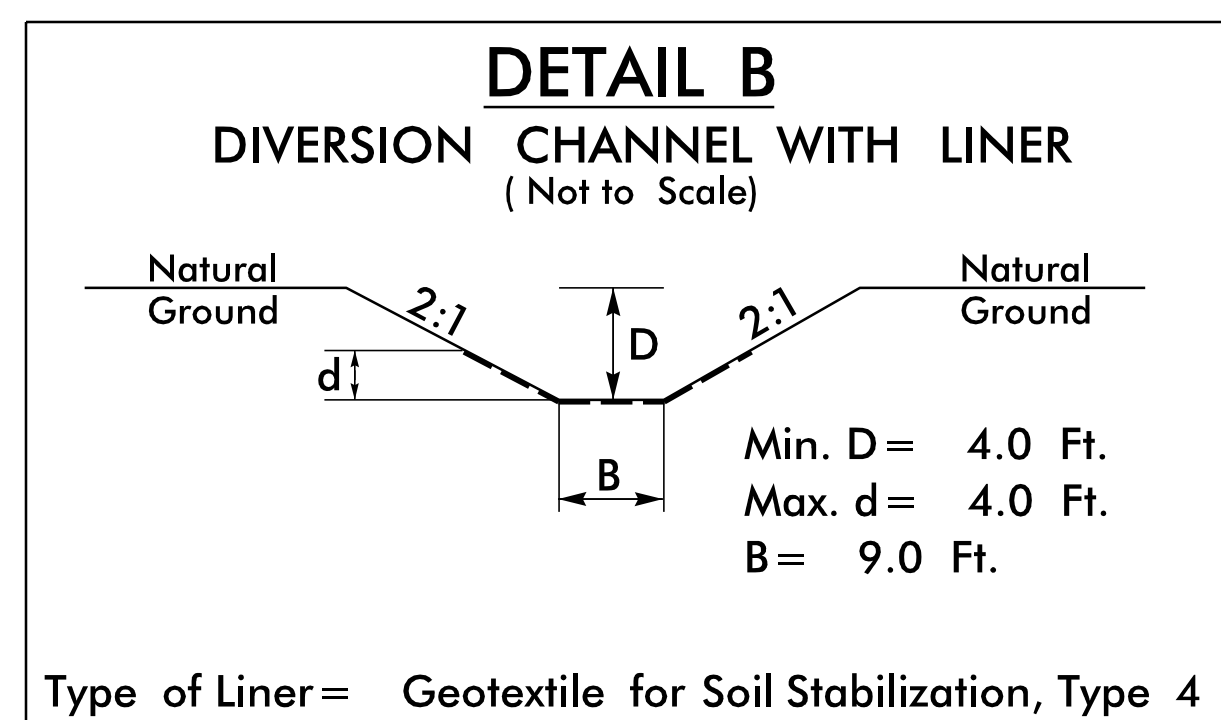
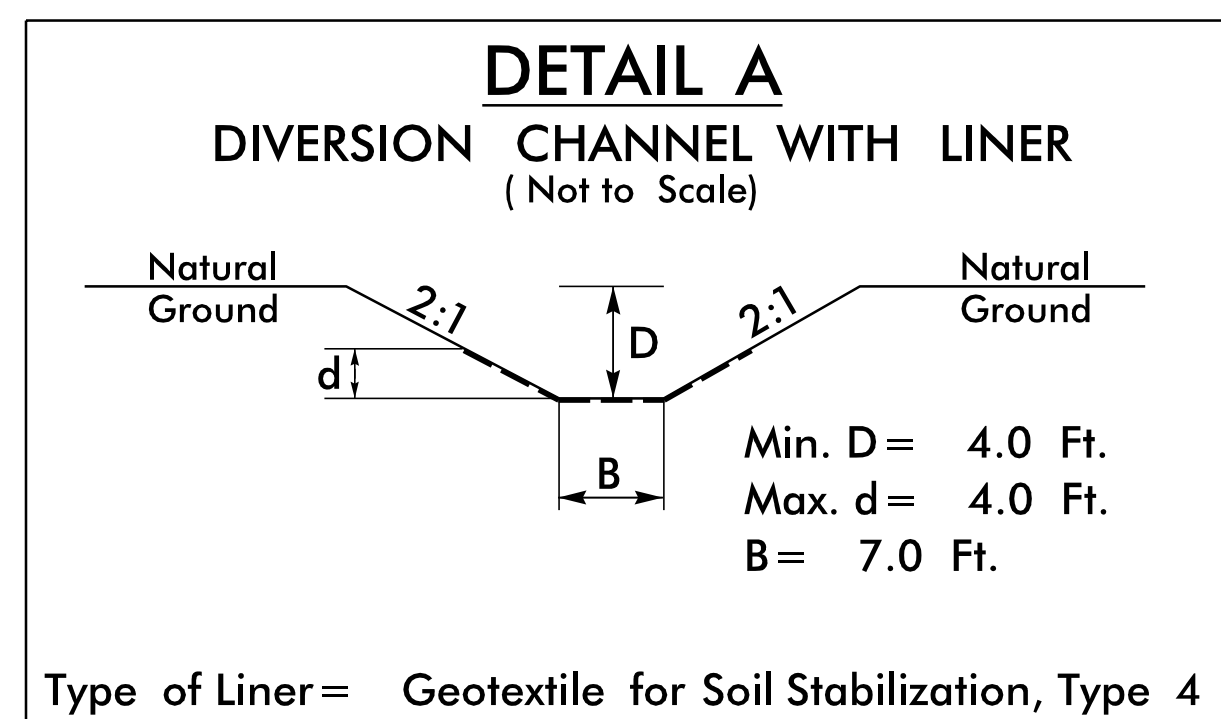
# CONSTRUCTION PHASING CULVERT 330059

## CULVERT AT STATION 32+77.5 -L-



### -PHASE-

1. INSTALL STILLING BASIN FOR PUMPED EFFLUENT (MIN. VOLUME 924 C.Y.).
2. CONSTRUCT -YIDET- DETOUR ALIGNMENT WITH TEMPORARY BRIDGE CROSSING.
3. CONSTRUCT IMPERVIOUS DIKES 1-4 AND INSTALL TEMPORARY DIVERSION CHANNELS. REGRADE TDs TO SKIMMER 5.1 WHEN IMPERVIOUS DIKES ARE INSTALLED.
4. REMOVE EXISTING REINFORCED CONCRETE BOX CULVERT.
5. EXCAVATE FOR AND CONSTRUCT THE PROPOSED REINFORCED CONCRETE BOX CULVERT. CONSTRUCT THE PROPOSED INLET AND OUTLET CHANNELS.
6. REMOVE ALL IMPERVIOUS DIKES AND DIVERT FLOW IN TO THE NEWLY CONSTRUCTED REINFORCED CONCRETE BOX CULVERT.
7. REMOVE TEMPORARY DIVERSION CHANNELS.
8. REMOVE STILLING BASIN. FINALIZE CONSTRUCTION OF -L- ALIGNMENT.
9. SHIFT TRAFFIC ON TO COMPLETED -L- ALIGNMENT. REMOVE -YIDET- DETOUR ALIGNMENT WITH TEMPORARY BRIDGE CROSSING

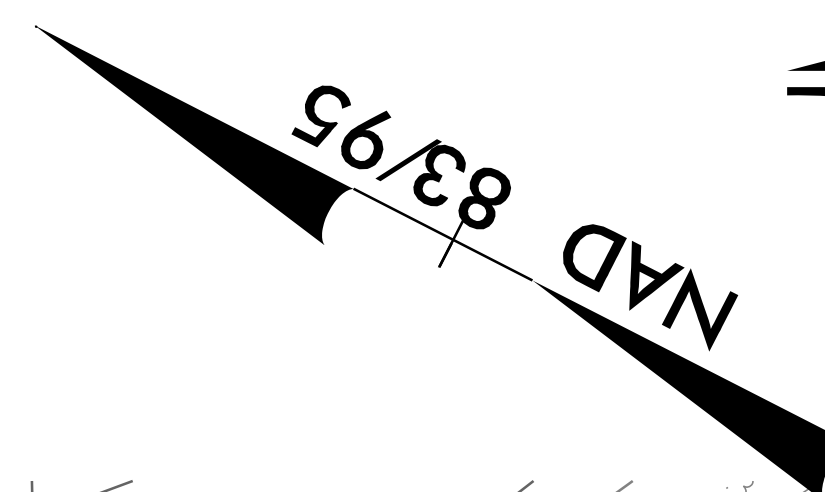


15  
EVERETTE E & MARTHA L KIRBY

CL. B. RIP RAP EST. 1 TON EST. 5 SY GF  
BEGIN RETAINING -Y2FLYAB-ST 69.97'

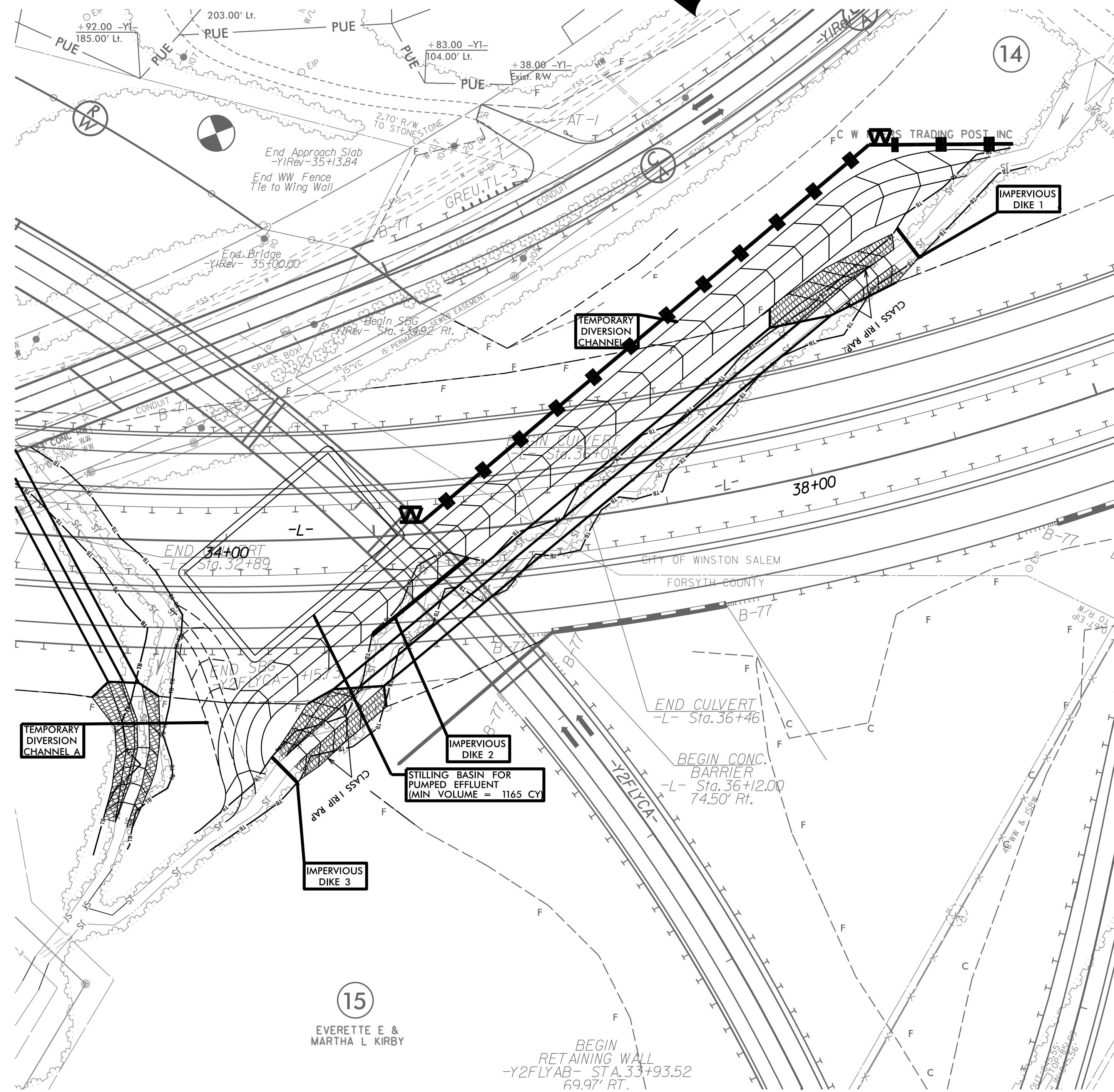
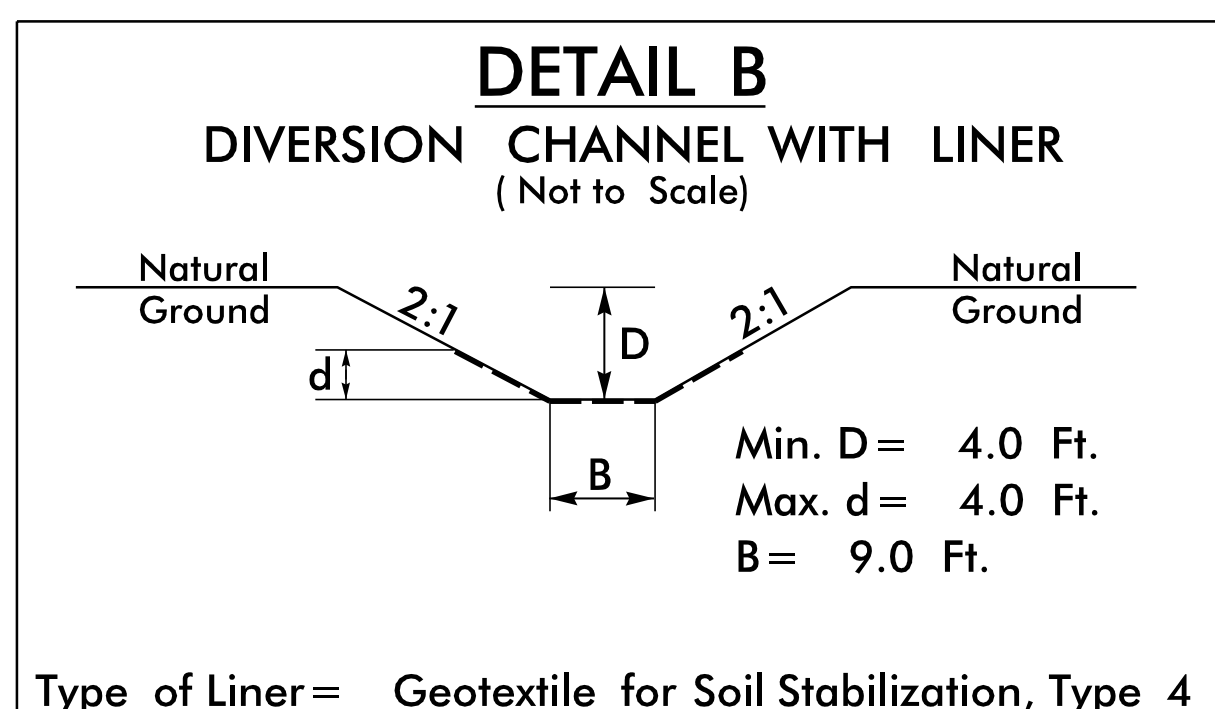
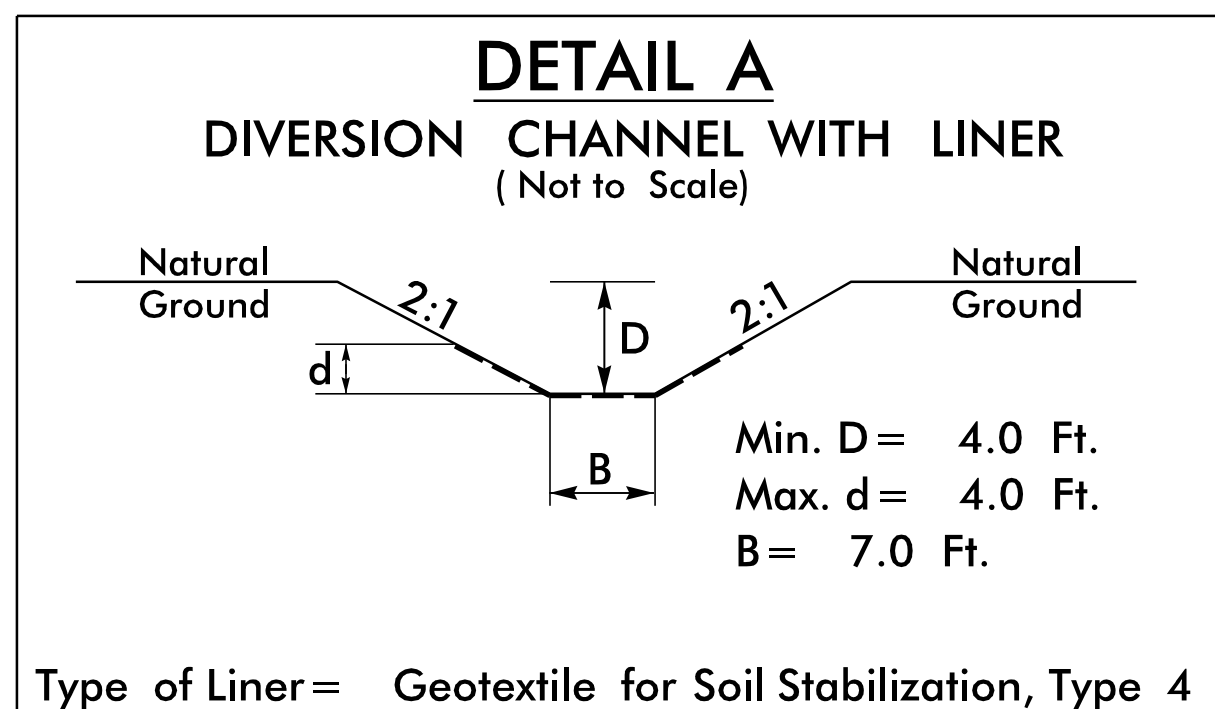
PROJECT REFERENCE NO.	SHEET NO.
U-2579AA	EC-5B/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# CONSTRUCTION PHASING CULVERT AT STATION 36+27.5 -L-



## -PHASE-

1. INSTALL STILLING BASIN FOR PUMPED EFFLUENT (MIN. VOLUME 1165 C.Y.).
2. CONSTRUCT IMPERVIOUS DIKES 1-3 AND INSTALL TEMPORARY DIVERSION CHANNEL(S).
3. EXCAVATE FOR AND CONSTRUCT THE PROPOSED REINFORCED CONCRETE BOX CULVERT. CONSTRUCT THE PROPOSED INLET AND OUTLET CHANNELS.
4. REMOVE ALL IMPERVIOUS DIKES AND DIVERT FLOW IN TO THE NEWLY CONSTRUCTED REINFORCED CONCRETE BOX CULVERT.
5. REMOVE TEMPORARY DIVERSION CHANNEL(S). REMOVE STILLING BASIN FOR PUMPED EFFLUENT.
6. FINALIZE CONSTRUCTION OF -L- ALIGNMENT.





PROJECT REFERENCE NO.	SHEET NO.
U-2579AA	EC-6/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 6

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

NOTE: PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

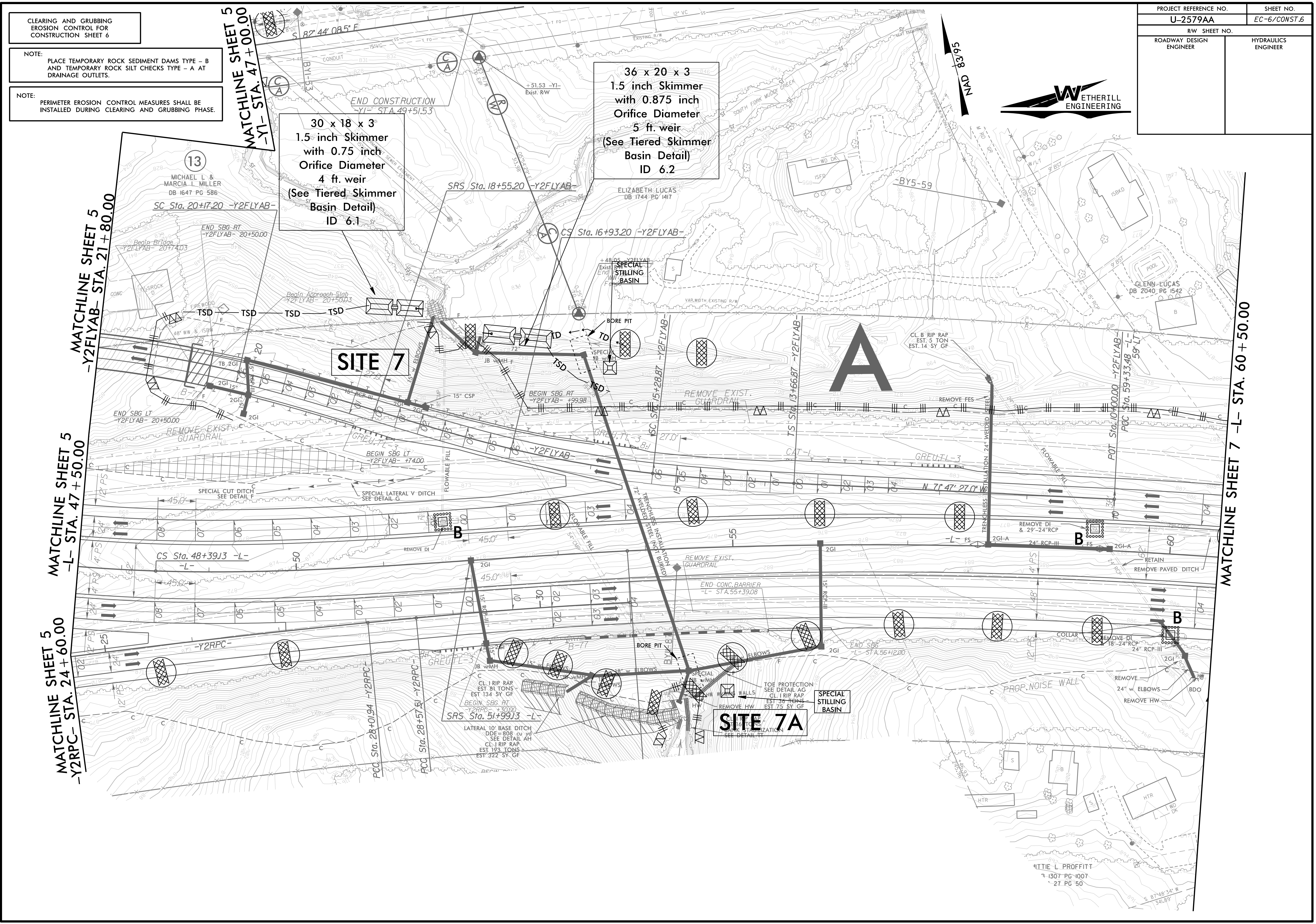
MATCHLINE SHEET 5  
-Y1- STA. 47+00.00

MATCHLINE SHEET 5  
-Y2FLYAB- STA. 21+80.00

MATCHLINE SHEET 5  
-L- STA. 47+50.00

MATCHLINE SHEET 5  
-Y2RPC- STA. 24+60.00

MATCHLINE SHEET 7 -L- STA. 60+50.00



REVISIONS

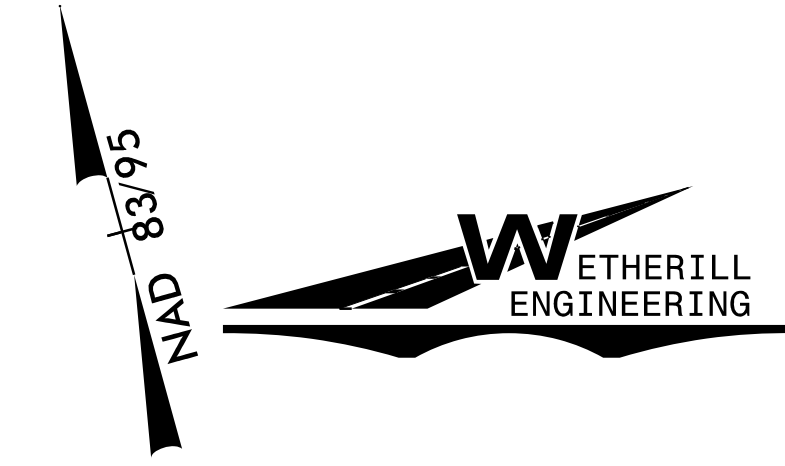
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7-1307 PG 1007  
-27 PG 50



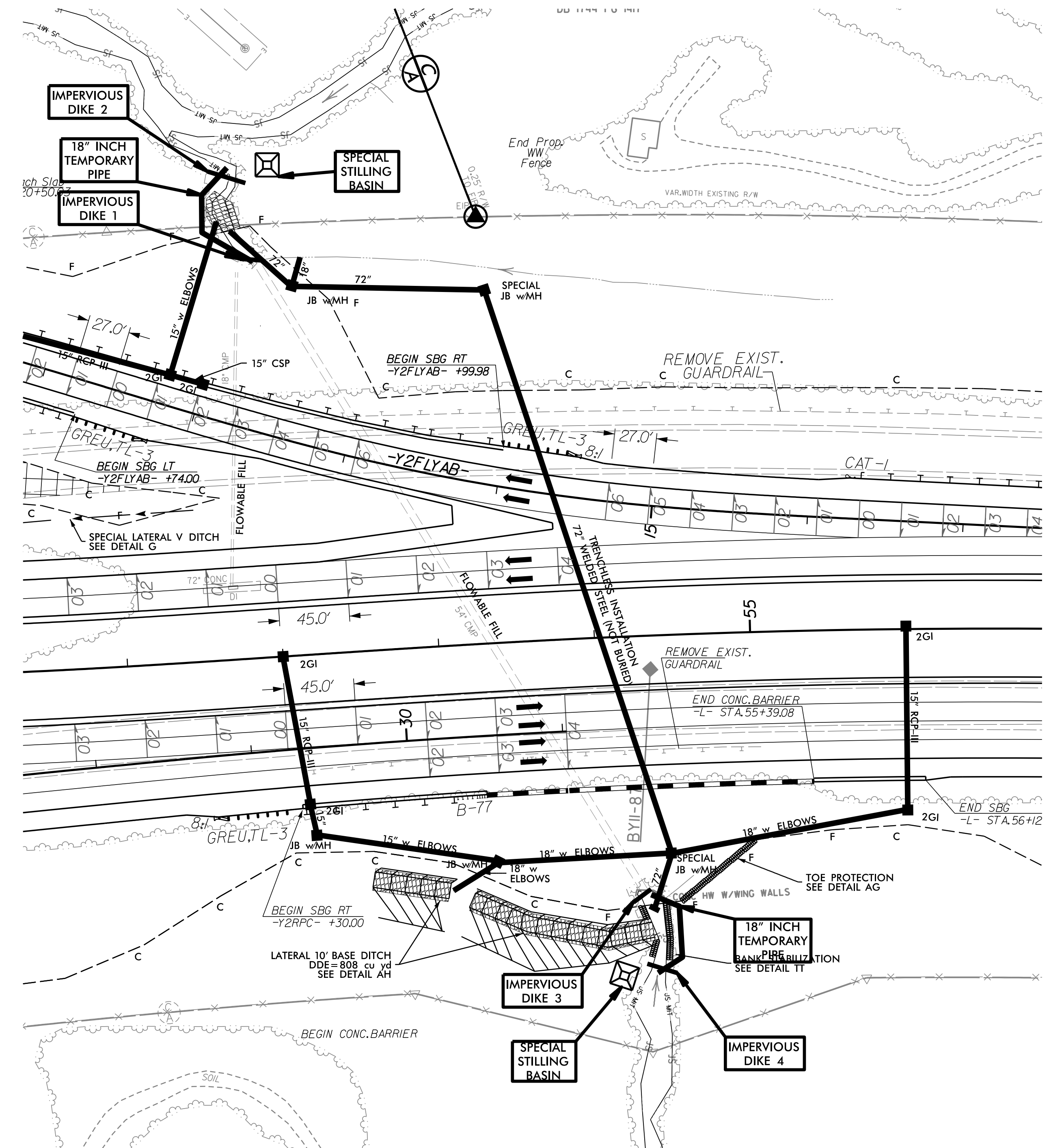
# CONSTRUCTION PHASING CULVERT AT STATION 54+00 -L-

PROJECT REFERENCE NO. U-2579AA	SHEET NO. EC-6A/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



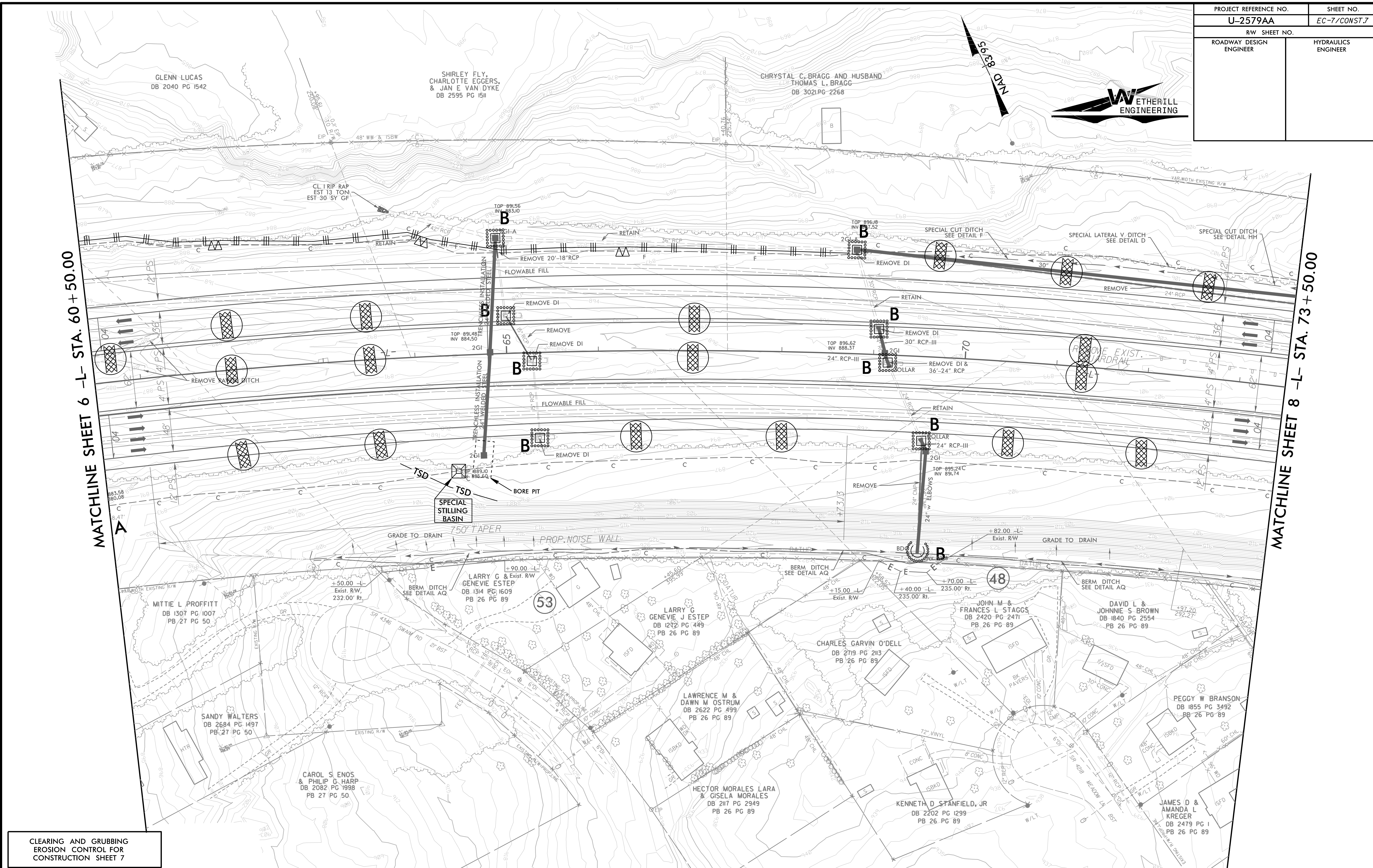
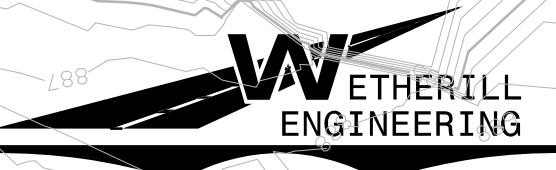
## -PHASE-

1. INSTALL PROPOSED 72" WELDED STEEL BY TRENCHLESS INSTALLATION AND SPECIAL JB W/MH AT THE INLET AND OUTLET. INSTALL 72" PARALLEL TO ROADWAY ON THE OUTLET FROM THE SPECIAL JB W/MH TO THE JB W/MH.
2. INSTALL SPECIAL STILLING BASINS, IMPERVIOUS DIKES 1, 2, 3, & 4 AND 18" TEMPORARY PIPE. DIVERT FLOW INTO TEMPORARY PIPES.
3. INSTALL PROPOSED 72" OUTLET PIPE AND TIE TO PROPOSED 72" PIPE.
4. CONSTRUCT DOWNSTREAM CHANNEL IMPROVEMENTS.
5. INSTALL PROPOSED 72" INLET PIPE, HEADWALL AND TIE TO PROPOSED SPECIAL JB W/MH.
6. CONSTRUCT UPSTREAM CHANNEL IMPROVEMENTS.
7. REMOVE IMPERVIOUS DIKES 2 & 4, AS WELL AS REMOVE THE 18" TEMPORARY PIPE AND DIVERT FLOW INTO PROPOSED 72" PIPE.
8. FILL EXISTING 54" CMP WITH FLOWABLE FILL.
9. REMOVE IMPERVIOUS DIKES 1 & 3.
10. REMOVE SPECIAL STILLING BASINS AND COMPLETE ROADWAY CONSTRUCTION.





PROJECT REFERENCE NO.	SHEET NO.
U-2579AA	EC-7/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 7

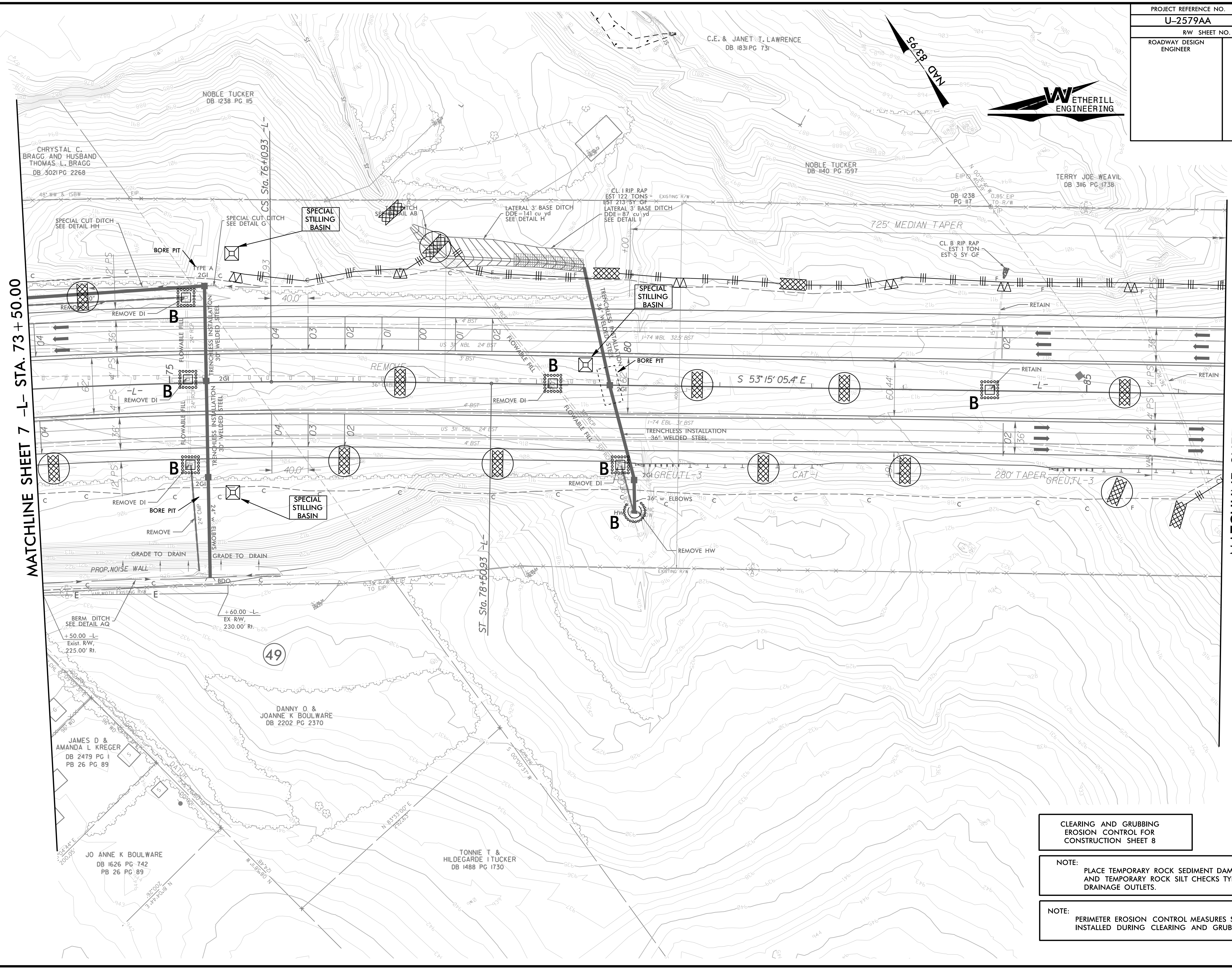
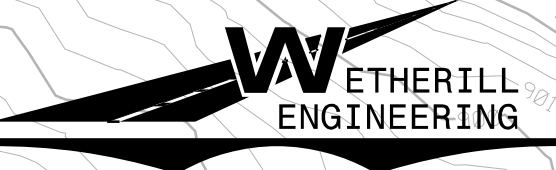
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

NOTE:  
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

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PROJECT REFERENCE NO.	SHEET NO.
U-2579AA	EC-B/CONST.B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



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:  
PERIMETER EROSION CONTROL MEASURES SHALL BE  
INSTALLED DURING CLEARING AND GRUBBING PHASE.

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5/21/2022  
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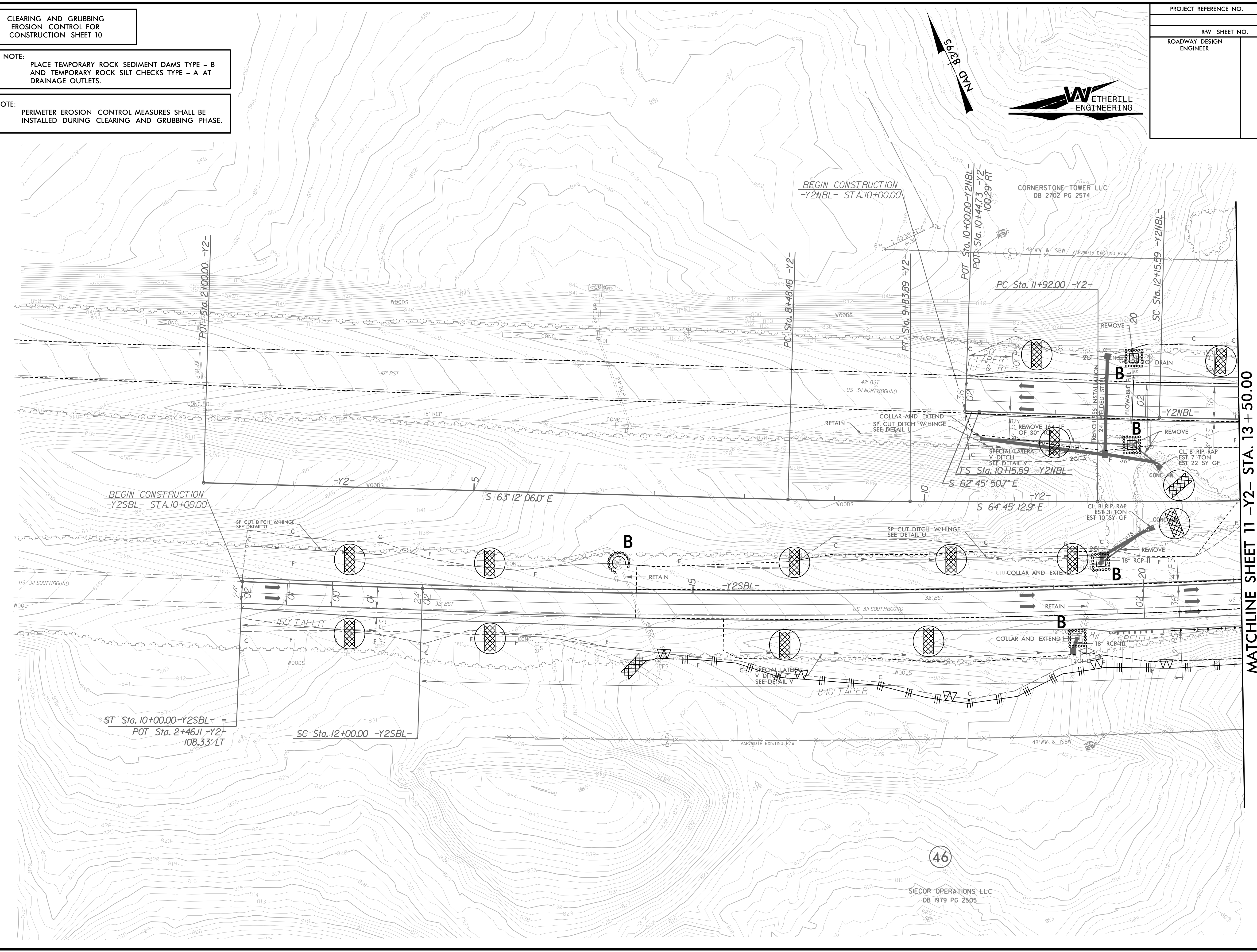


**CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 10**

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

**NOTE:**  
PERIMETER EROSION CONTROL MEASURES SHALL BE  
INSTALLED DURING CLEARING AND GRUBBING PHASE.

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



MATCHLINE SHEET 11 -Y2- STA. 13 + 50.00

46

SIECOR OPERATIONS LLC  
DB 1979 PG 2505

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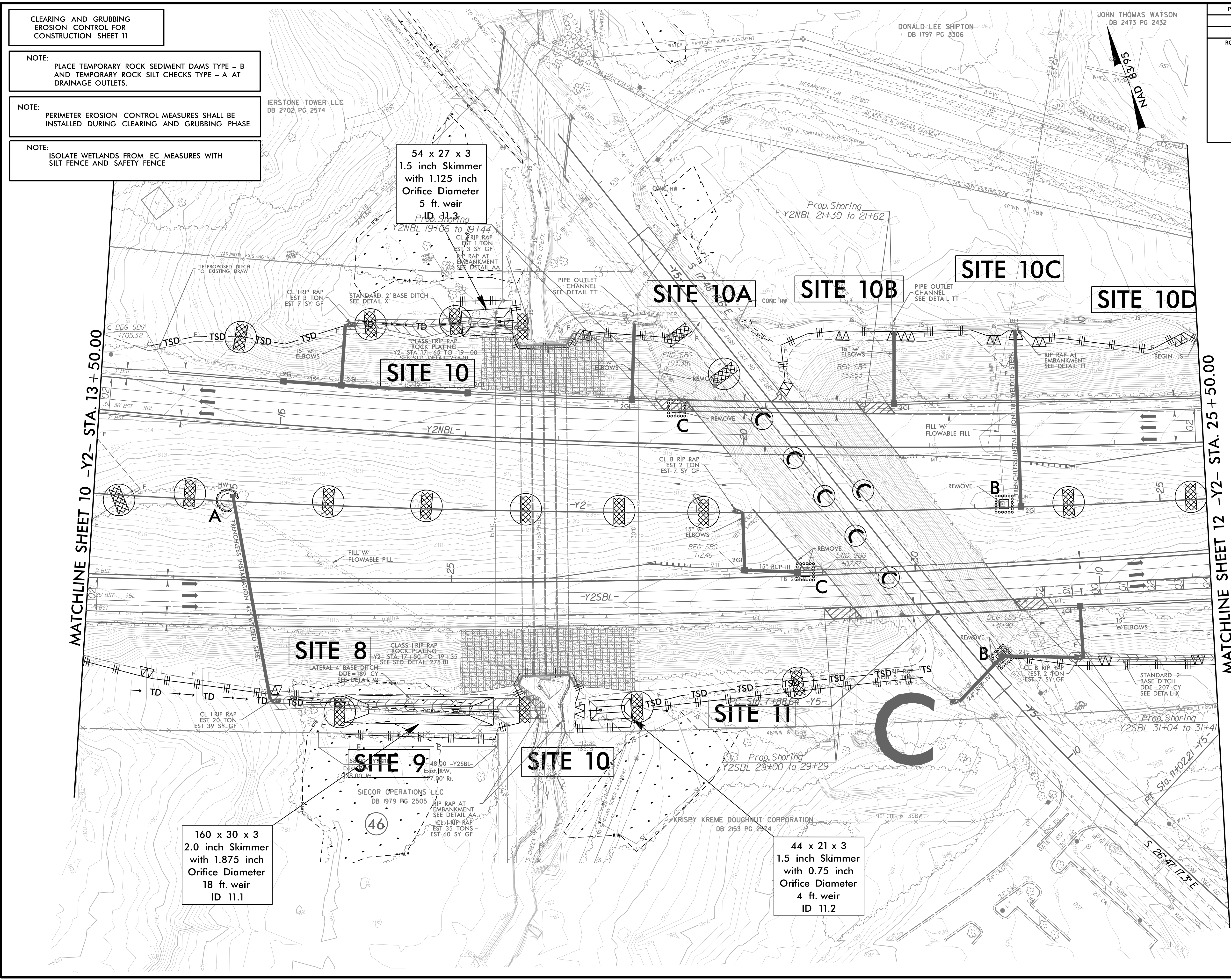
CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 11

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

NOTE:  
PERIMETER EROSION CONTROL MEASURES SHALL BE  
INSTALLED DURING CLEARING AND GRUBBING PHASE.

NOTE:  
ISOLATE WETLANDS FROM EC MEASURES WITH  
SILT FENCE AND SAFETY FENCE

PROJECT REFERENCE NO.	SHEET NO.
U-2579AA	EC-II/CONST-II
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



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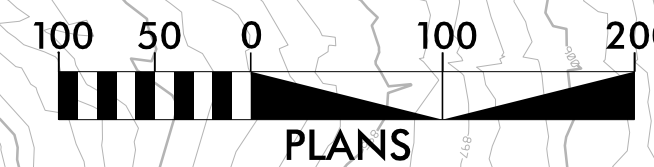


**CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 12**

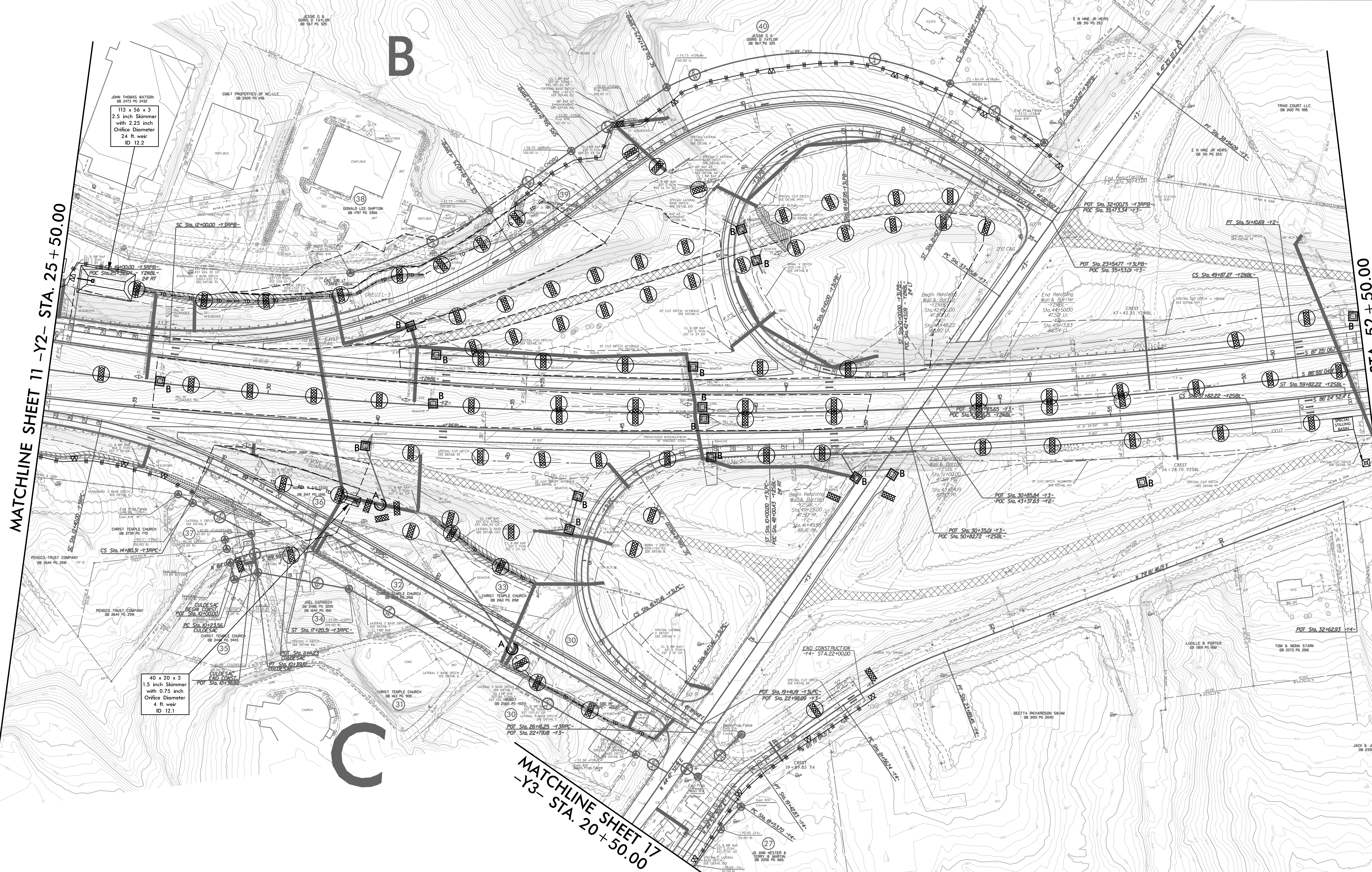
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

NOTE:  
PERIMETER EROSION CONTROL MEASURES SHALL BE  
INSTALLED DURING CLEARING AND GRUBBING PHASE.

PROJECT REFERENCE NO. <b>U-2579AA</b>	SHEET NO. <b>EC-12/CONST.12</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



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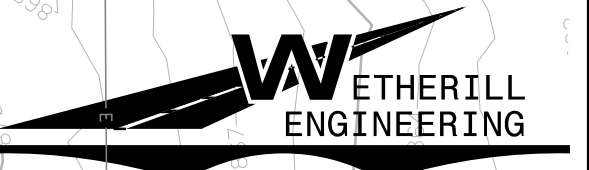


PROJECT REFERENCE NO.	SHEET NO.
U-2579AA	EC-13/CONST.13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 13

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

NOTE:  
PERIMETER EROSION CONTROL MEASURES SHALL BE  
INSTALLED DURING CLEARING AND GRUBBING PHASE.



JEA ENTERPRISES LLC  
DB 1889 PG 3268

DIANE W GERREY  
DB 1924 PG 455

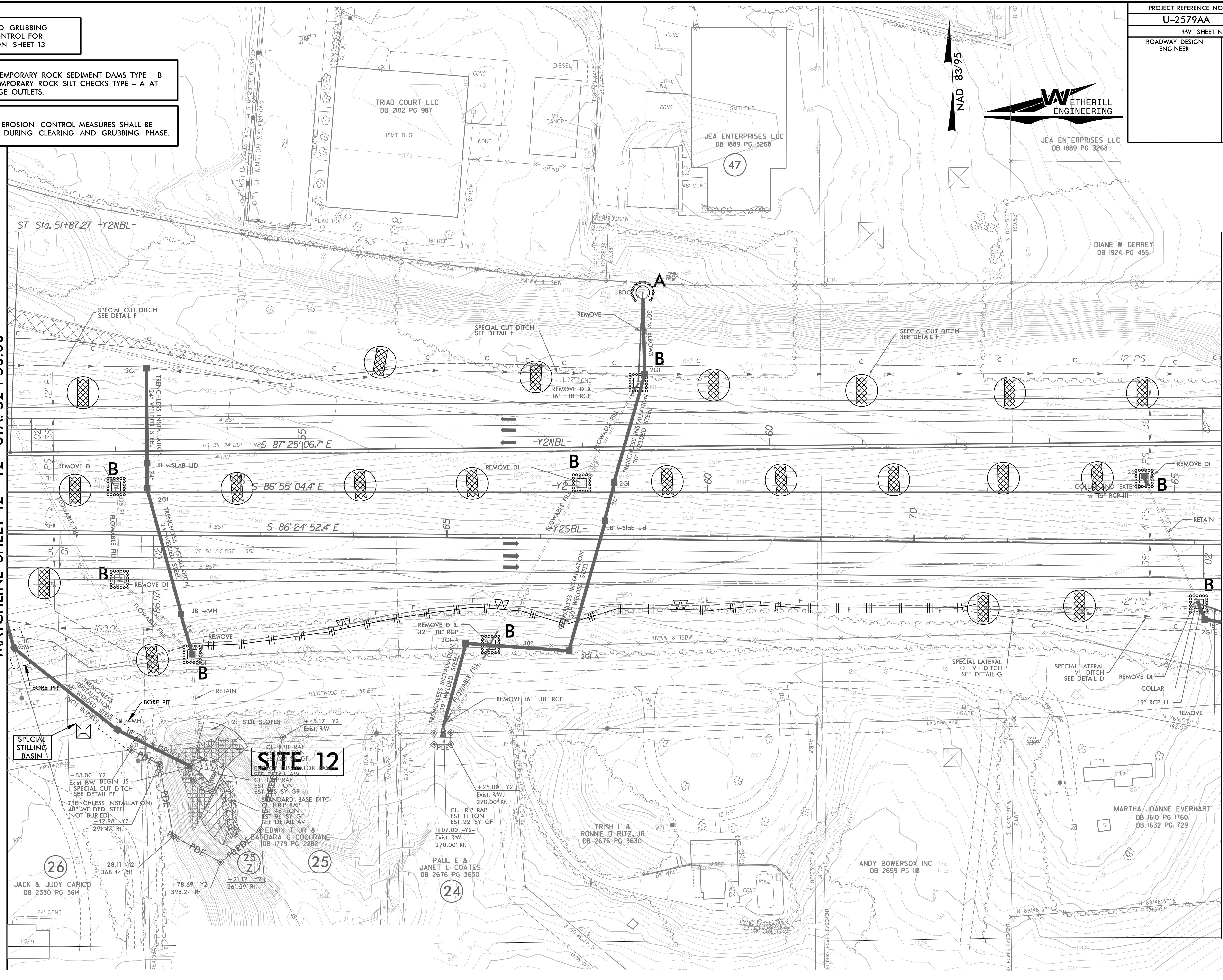
MARTHA JOANNE EVERHART  
DB 1610 PG 1760  
DB 1632 PG 729

JEA ENTERPRISES LLC  
DB 1889 PG 3268

TRIAD COURT LLC  
DB 2102 PG 987

MATCHLINE SHEET 12 -Y2- STA. 52 + 50.00

MATCHLINE SHEET 14 -Y2- STA. 65 + 50.00



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CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 14

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

NOTE:  
PERIMETER EROSION CONTROL MEASURES SHALL BE  
INSTALLED DURING CLEARING AND GRUBBING PHASE.

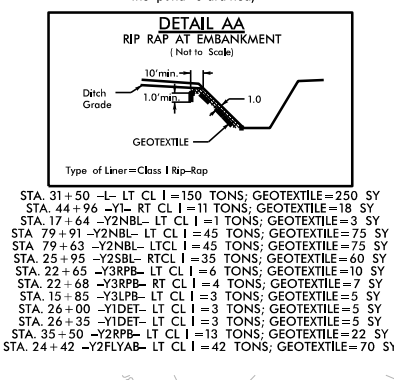
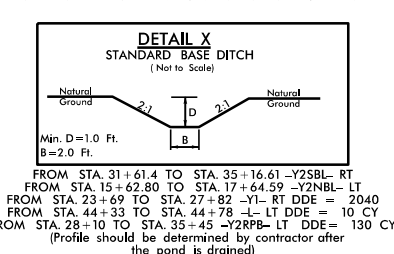
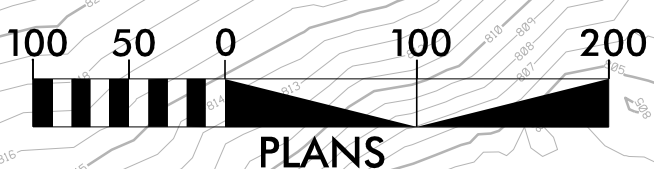
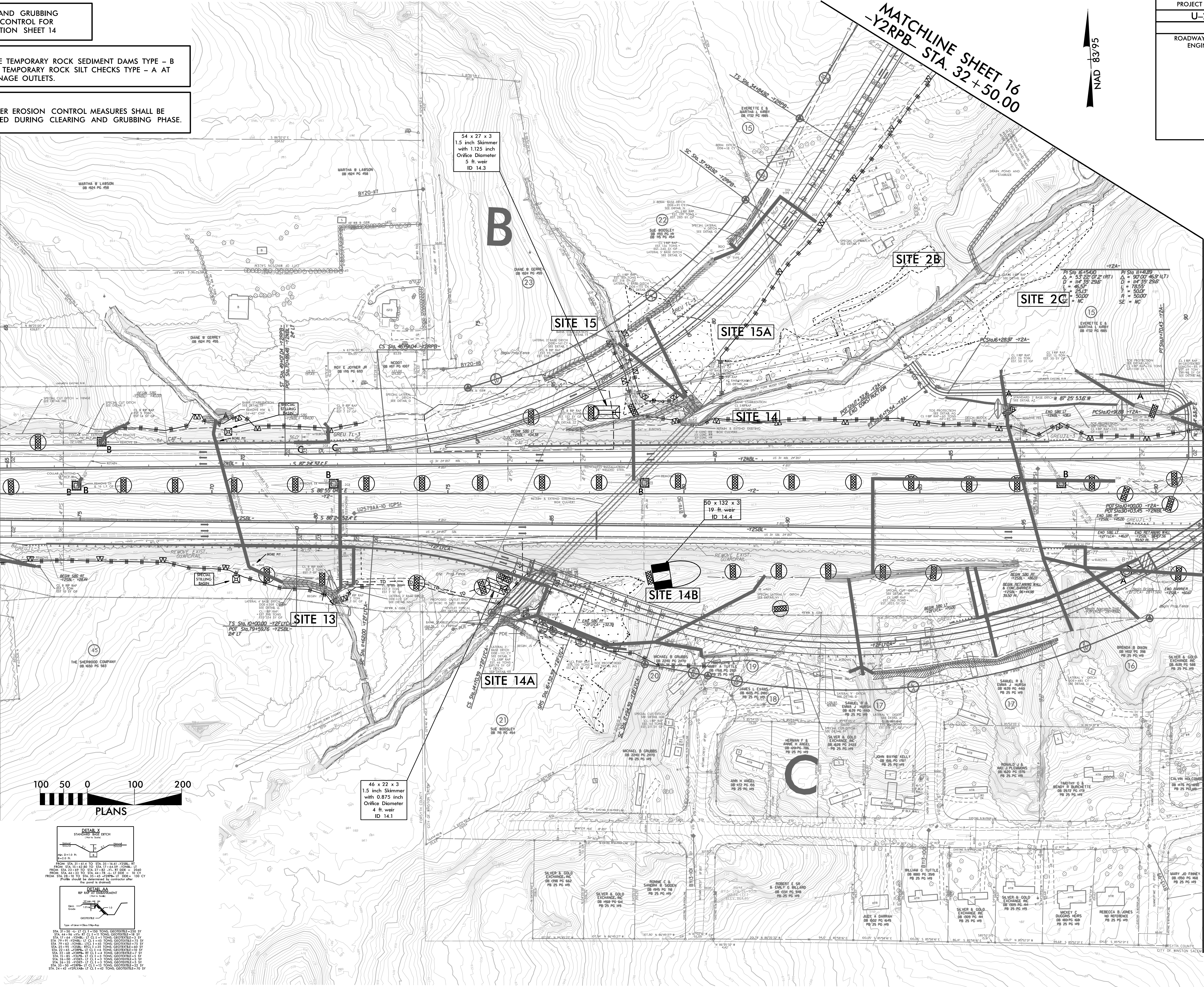
PROJECT REFERENCE NO.	SHEET NO.
U-2579AA	EC-14/CONST.14
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCHLINE SHEET 16  
-Y2RPB- STA. 32 + 50.00

MATCHLINE SHEET 13 -Y2- STA. 65 + 50.00

MATCHLINE SHEET 5  
-Y2- STA. 91 + 00.00  
-Y2FLYCA- STA. 29 + 98.44

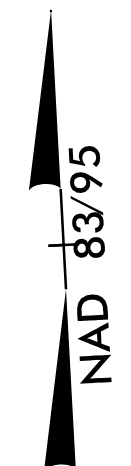


STA. 31.00 TO STA. 31.00 TONG GROUTING=10 FT  
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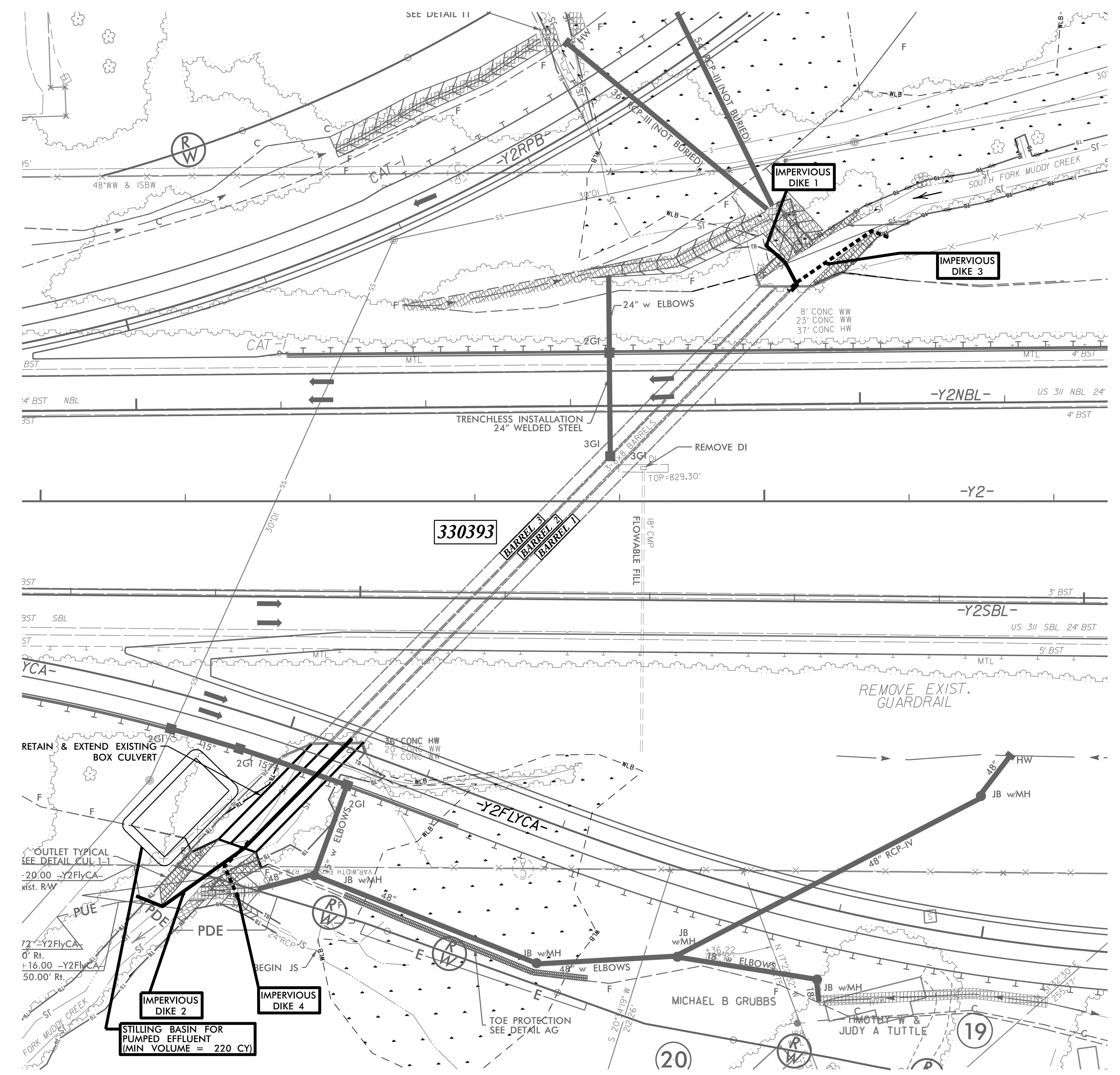
# CONSTRUCTION PHASING CULVERT 330393 CULVERT AT STATION 78+69 -Y2-



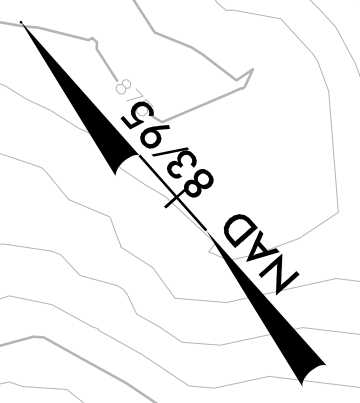
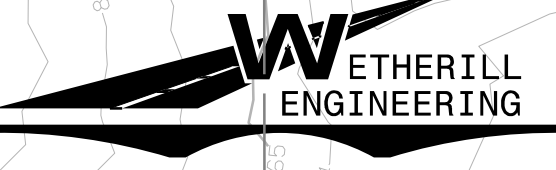
PROJECT REFERENCE NO.	SHEET NO.
U-2579AA	EC-14A/CONST.14
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

## -PHASE-

1. INSTALL SPECIAL STILLING BASINS AND STILLING BASIN AND IMPERVIOUS DIKES 1 & 2  
DIVERT FLOW INTO BARREL 1.
2. REMOVE EXISTING WINGWALL FROM THE OUTLET OF BARREL 3.
3. EXTEND BARRELS 2 & 3. CONSTRUCT CORRESPONDING PORTION OF HEADWALL AND CORRESPONDING WINGWALL. INSTALL PROPOSED RIP RAP ALONG RIGHT CHANNEL BANK AT OUTLET END.
4. REMOVE IMPERVIOUS DIKES 1 & 2. INSTALL IMPERVIOUS DIKES 3 & 4 AND DIVERT FLOW INTO THE BARRELS 2 & 3.
5. REMOVE EXISTING WINGWALL FROM THE OUTLET OF BARREL 1.
6. EXTEND BARREL 1. CONSTRUCT CORRESPONDING PORTION OF HEADWALL AND CORRESPONDING WINGWALL. INSTALL PROPOSED RIP RAP ALONG LEFT CHANNEL BANK AT OUTLET END.
7. FINALIZE CONSTRUCTION OF -Y2- (-Y2NBL-, -Y2SBL-) AND -Y2FLYCA- ALIGNMENTS. REMOVE IMPERVIOUS DIKES 3 & 4 AND ALLOW FLOW IN ALL BARRELS. REMOVE SPECIAL STILLING BASINS AND STILLING BASIN.

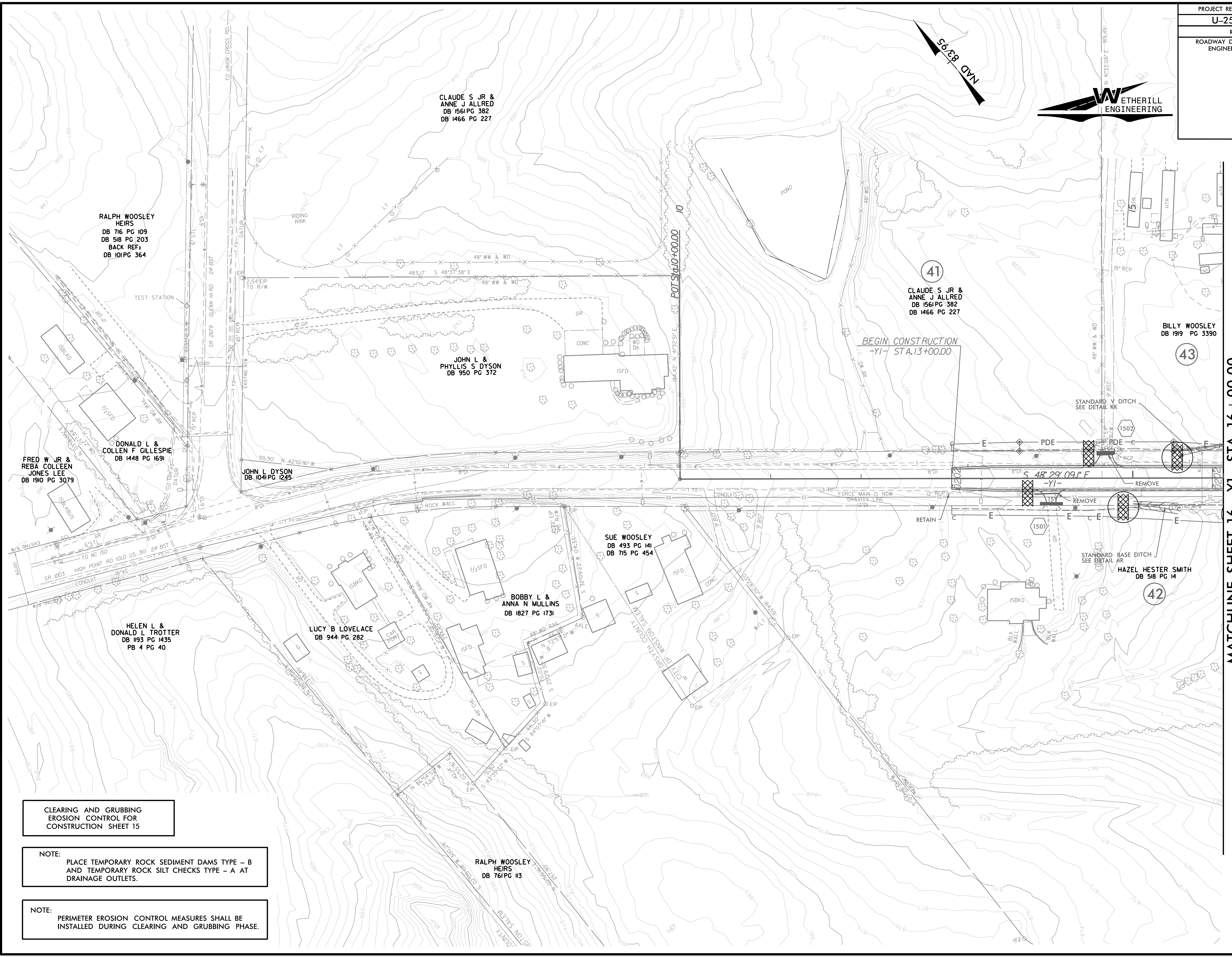


PROJECT REFERENCE NO.	SHEET NO.
U-2579AA	EC-15/CONST J5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



8/17/99

REVISIONS



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.

NOTE:  
PERIMETER EROSION CONTROL MEASURES SHALL BE  
INSTALLED DURING CLEARING AND GRUBBING PHASE.

5/21/2022  
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MATCHLINE SHEET 16 -YI- STA. 16+00.00