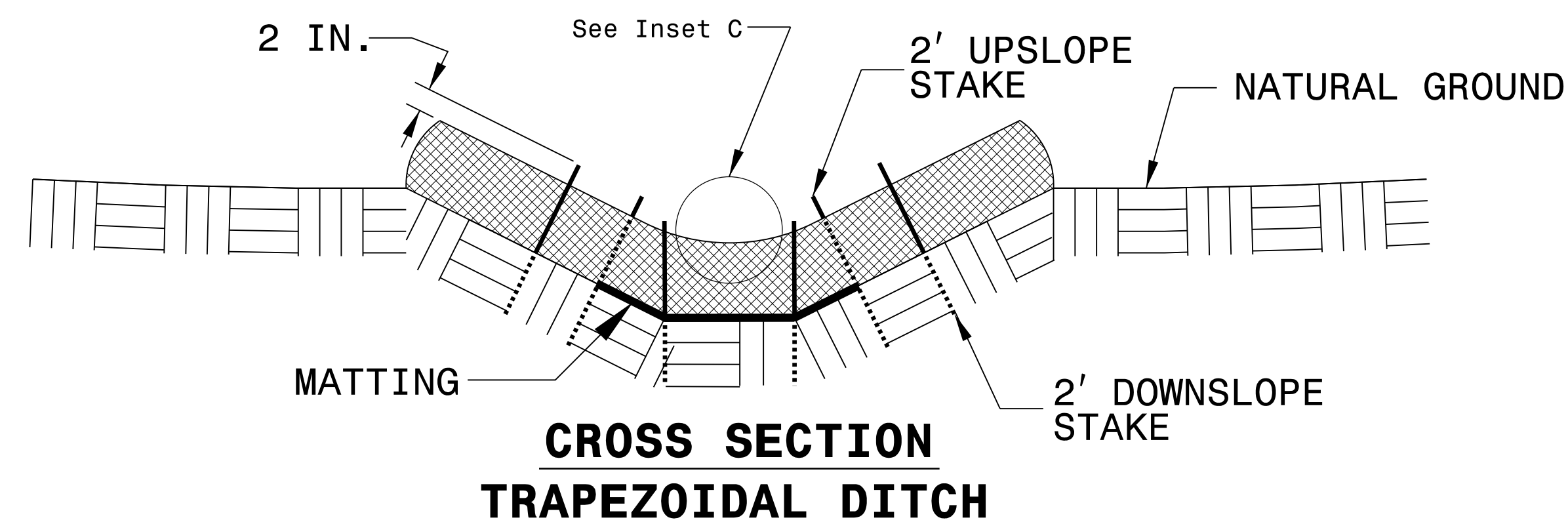
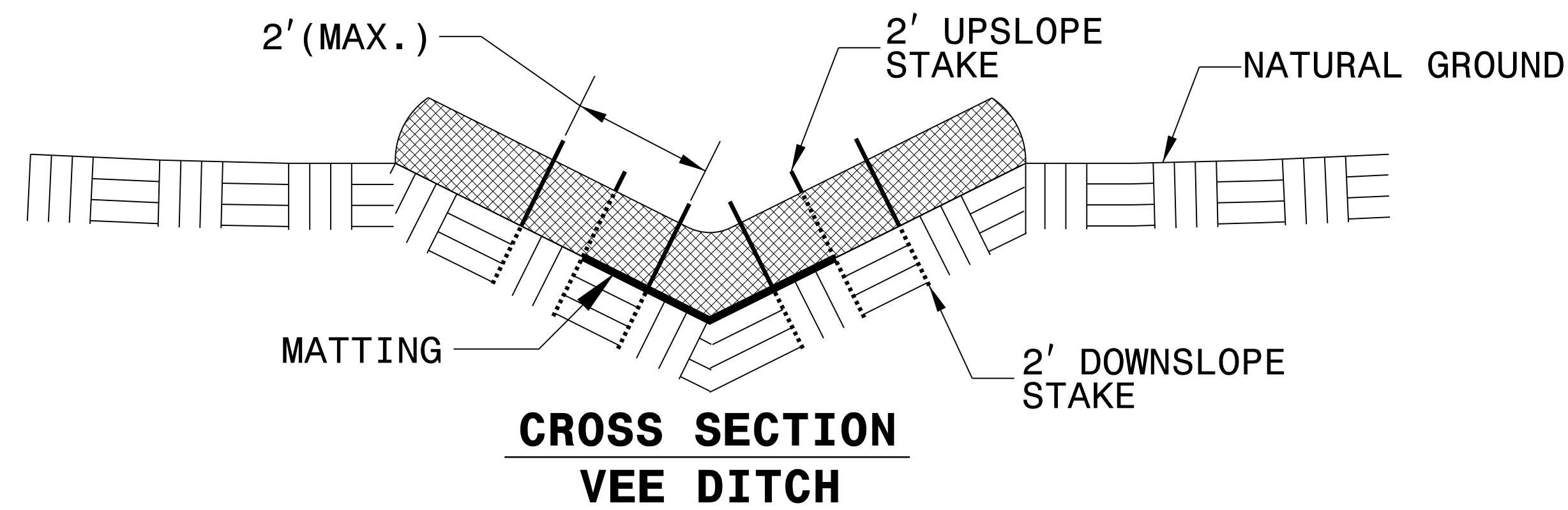
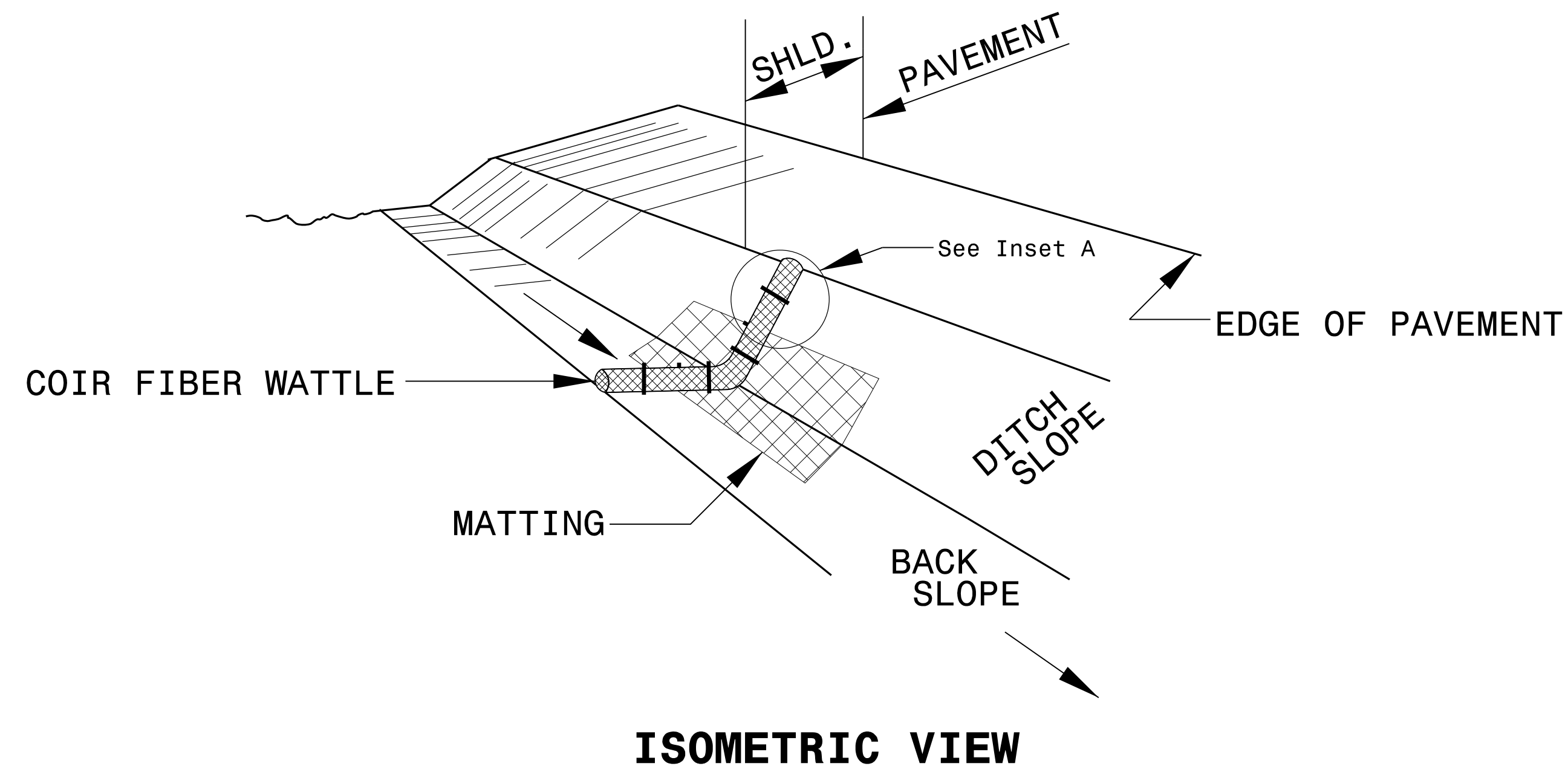




# COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



**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.

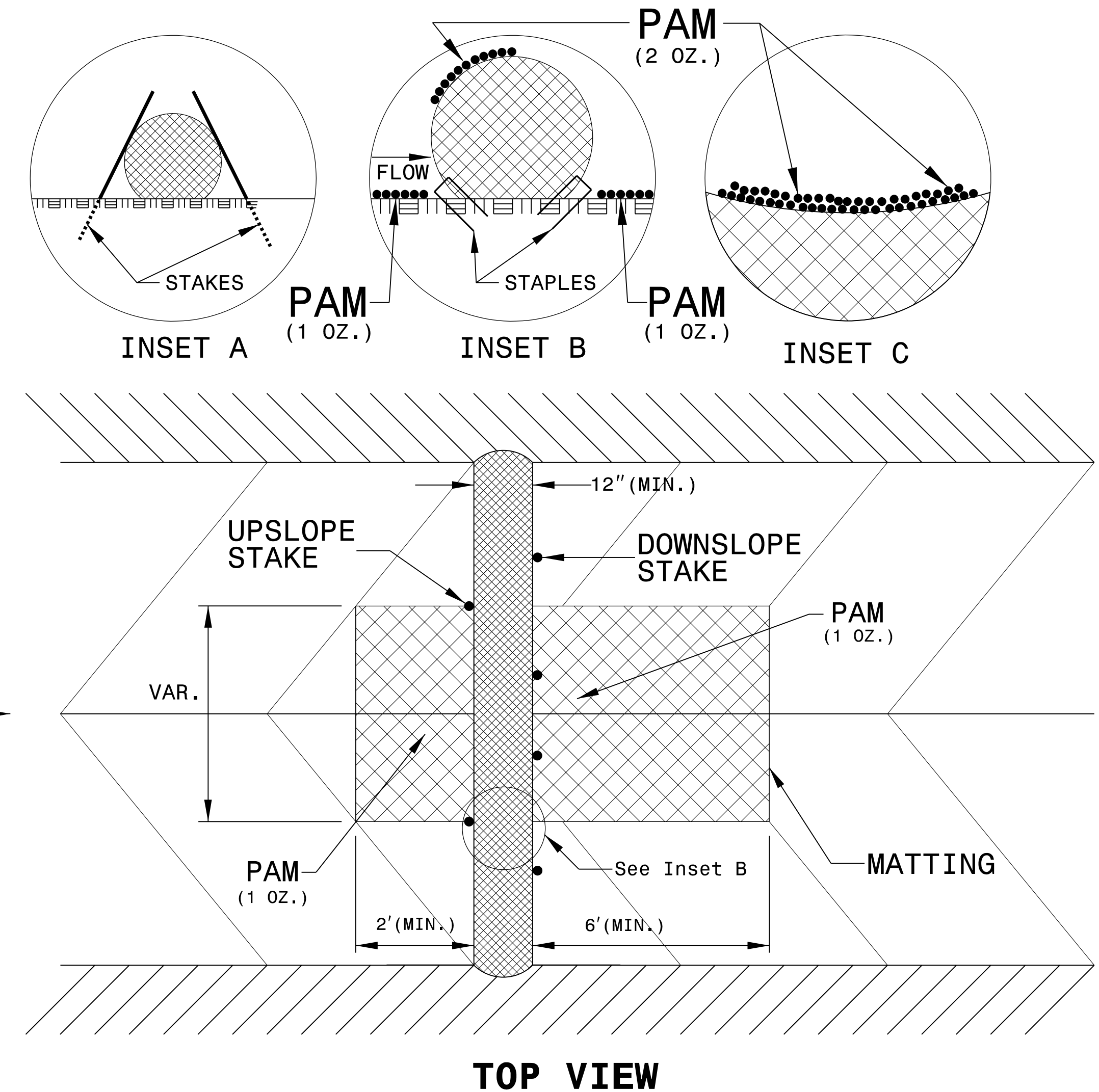
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

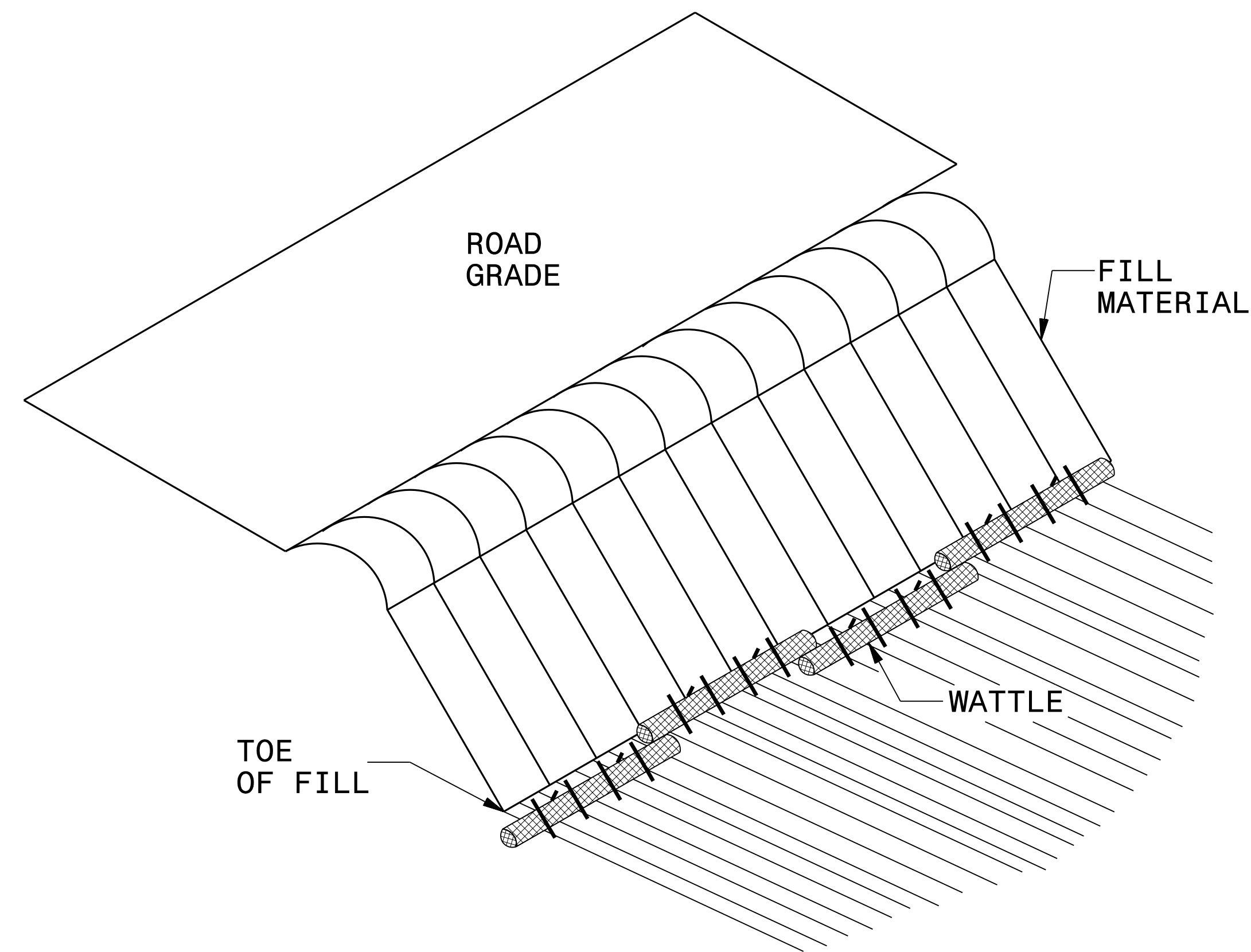
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

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.

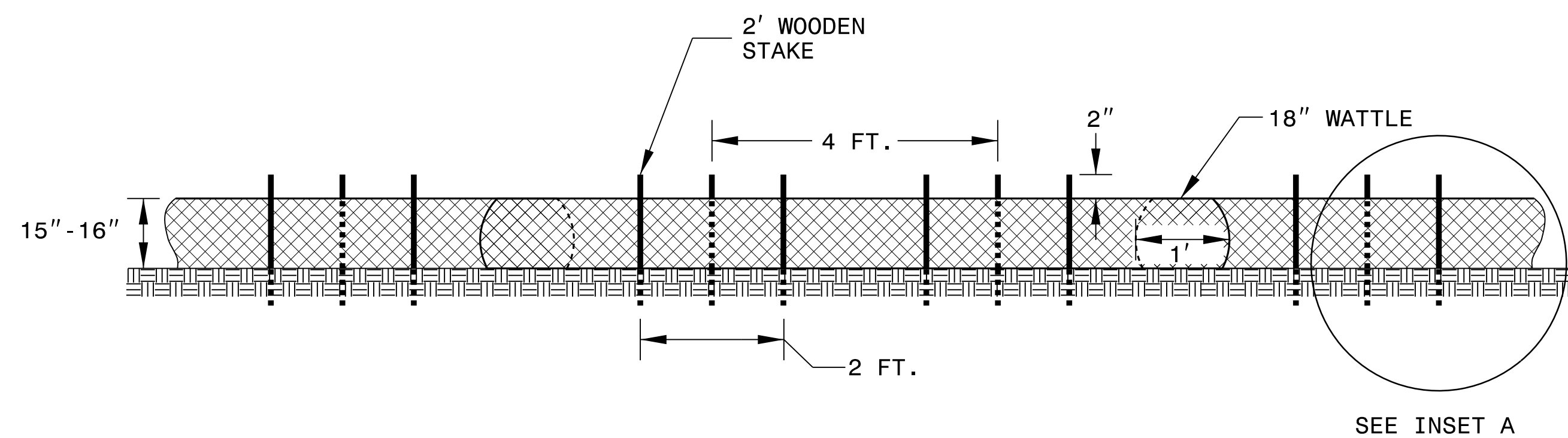
INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



# COIR FIBER WATTLE BARRIER DETAIL



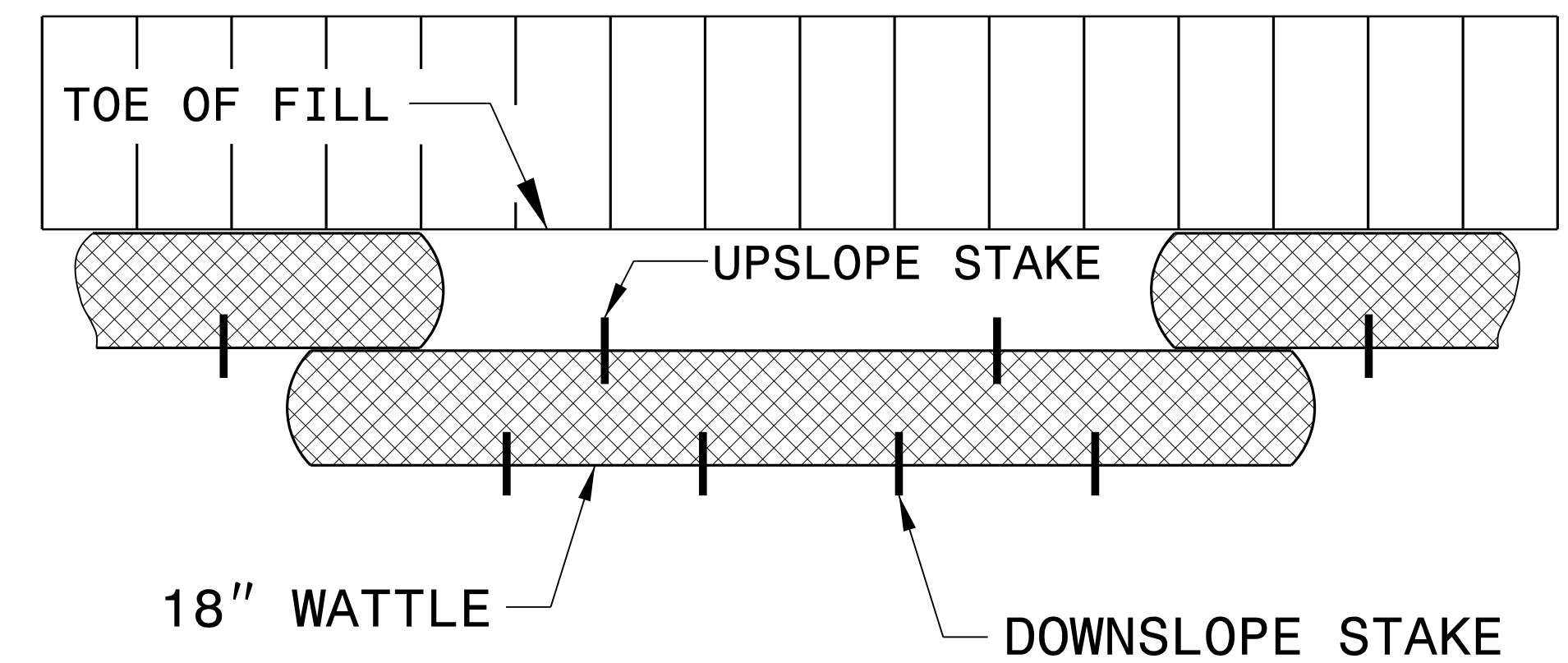
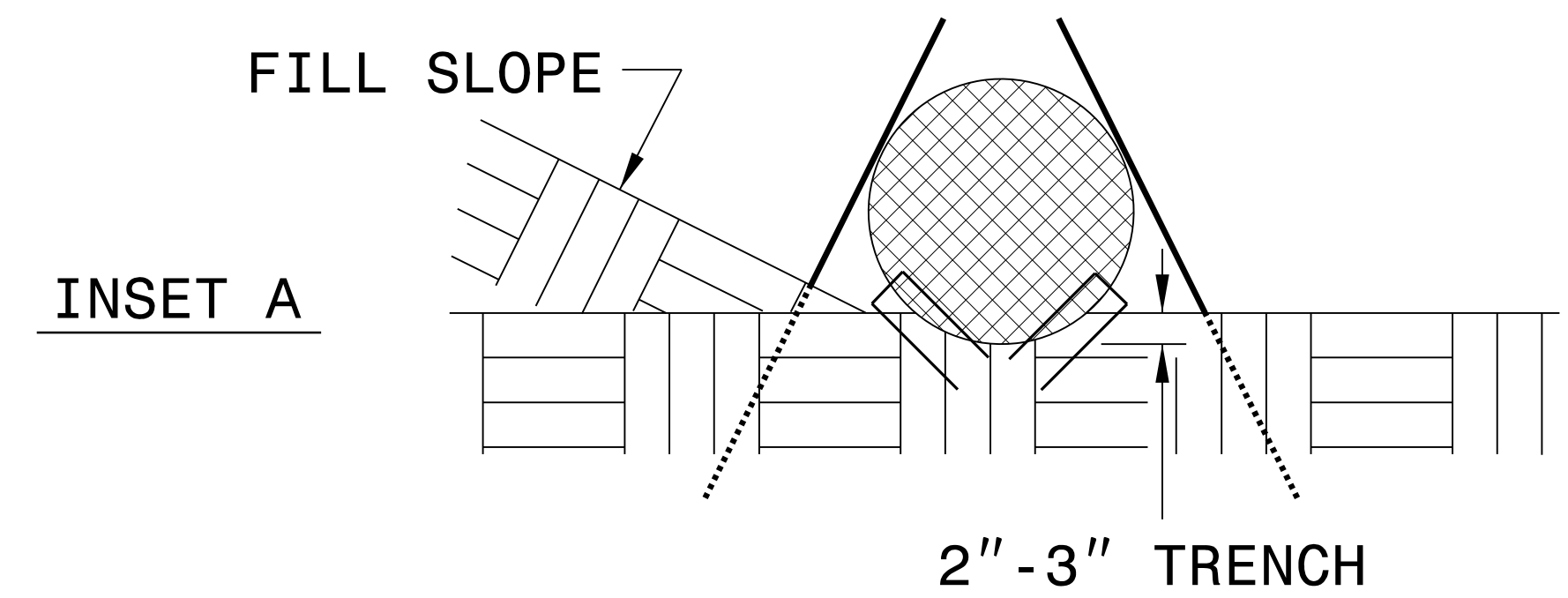
**ISOMETRIC VIEW**



**FRONT VIEW**

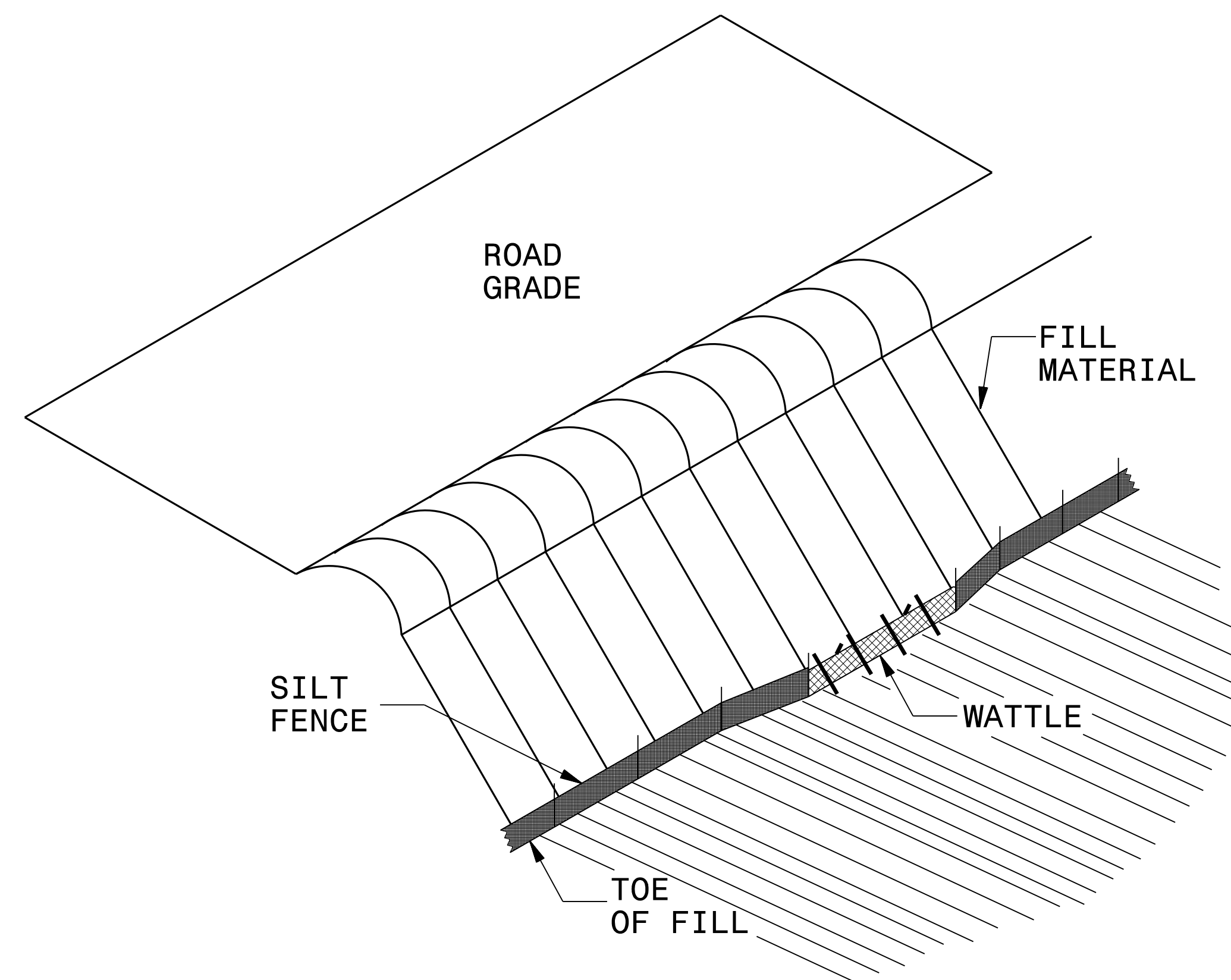
**NOTES:**

- 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.

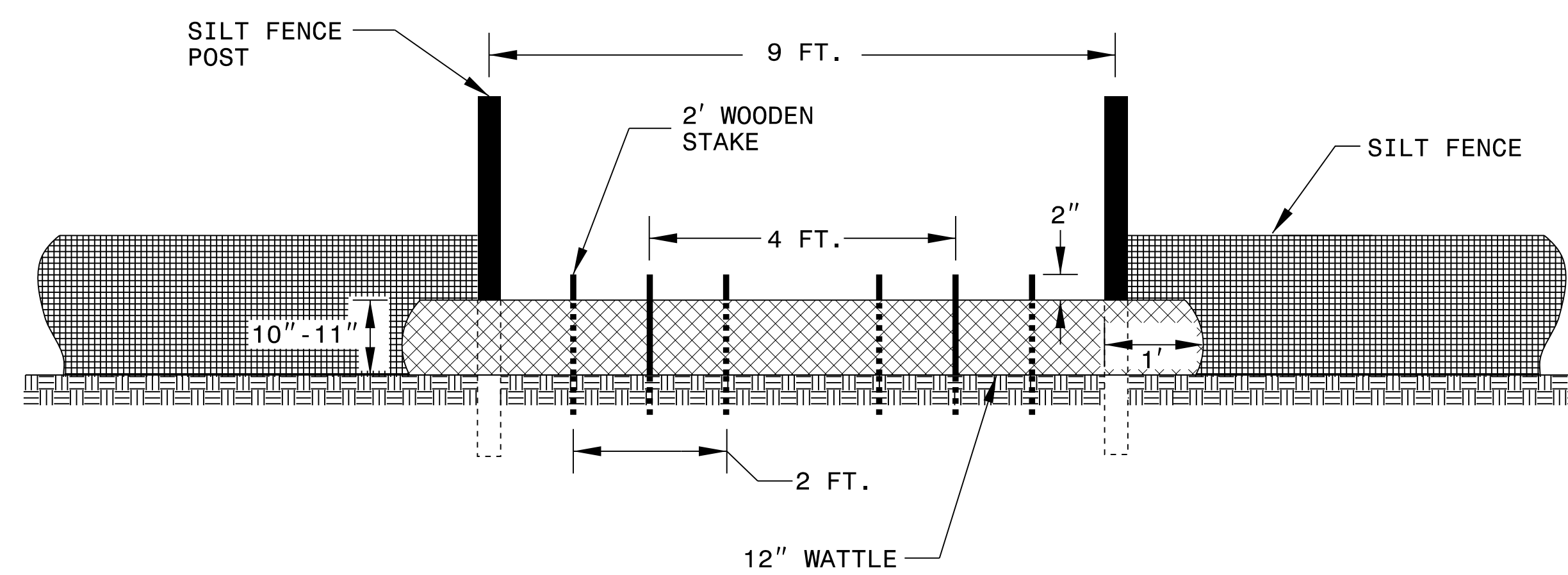


**TOP VIEW**

# SILT FENCE COIR FIBER WATTLE BREAK DETAIL



**ISOMETRIC VIEW**



**VIEW FROM SLOPE**

**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.

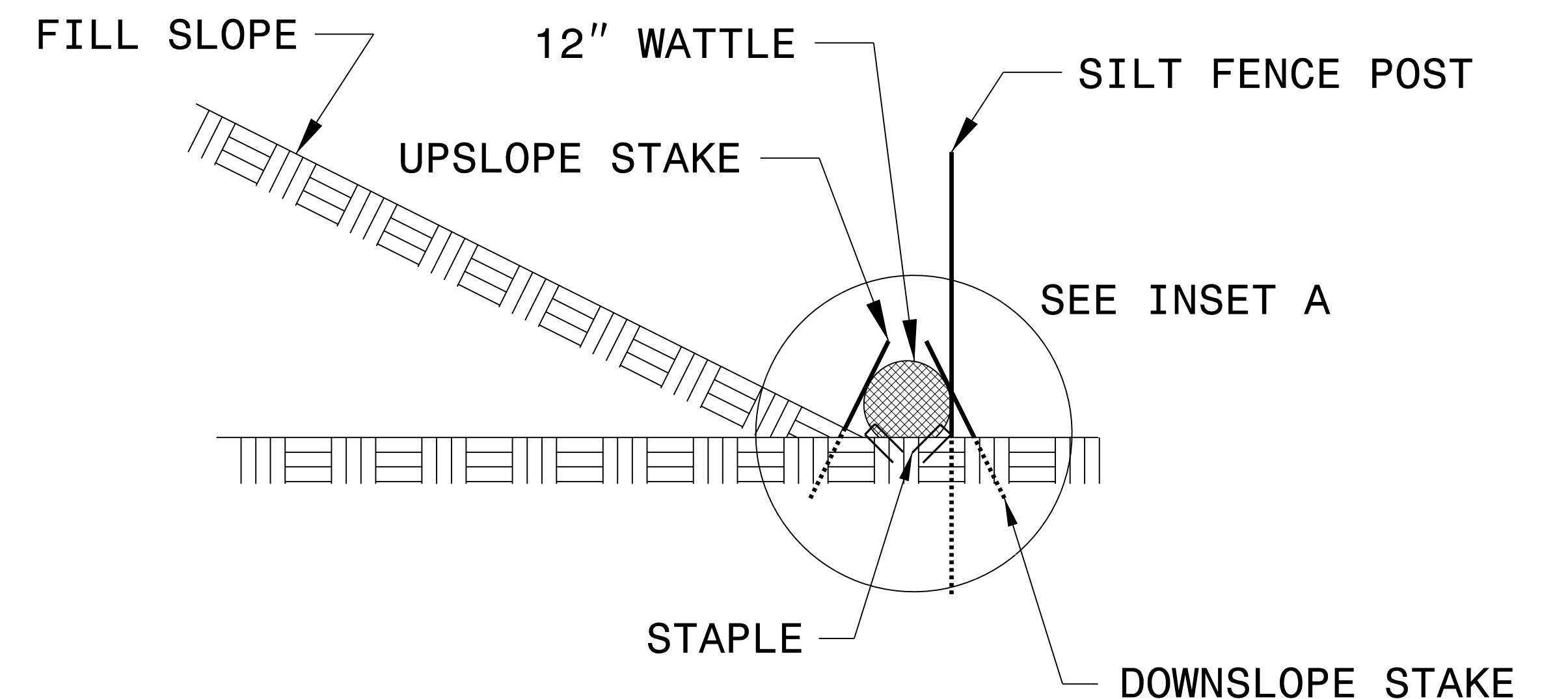
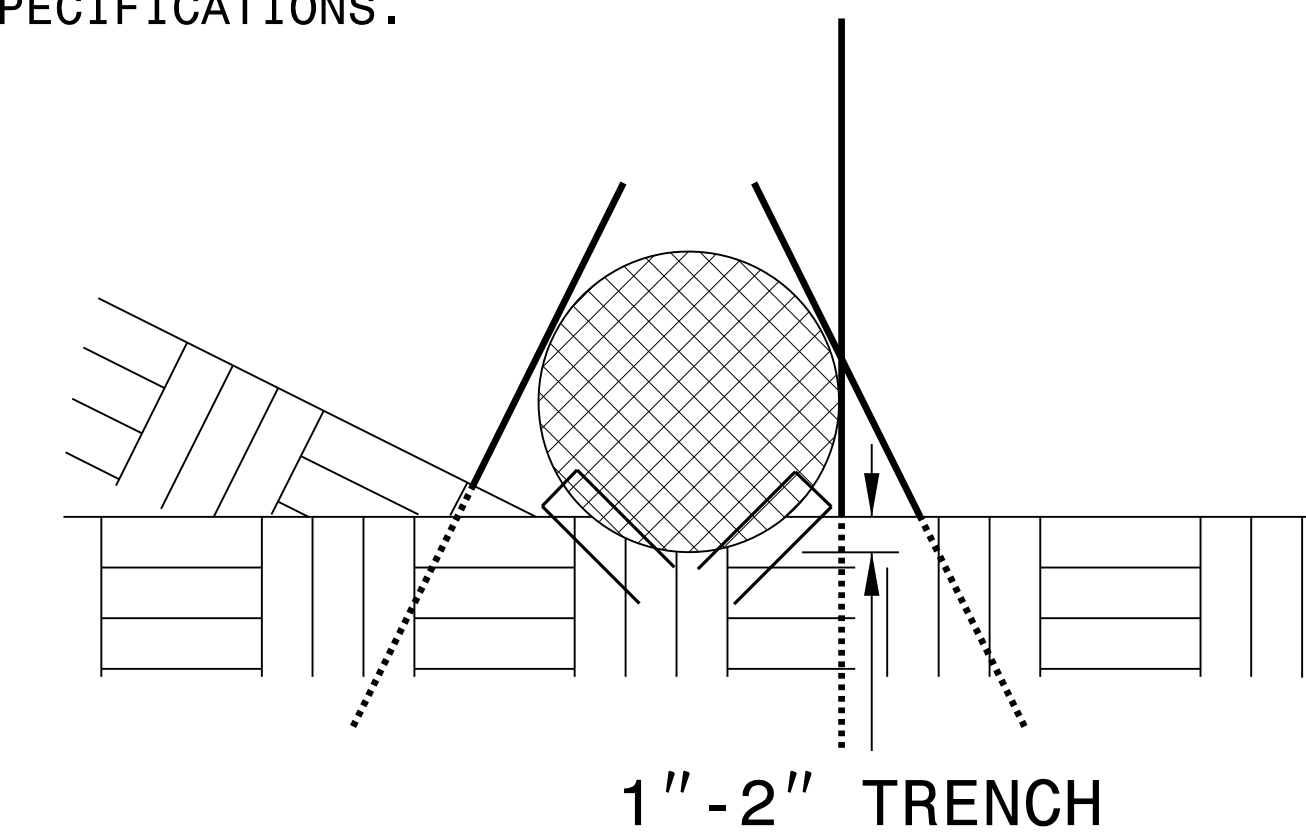
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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.

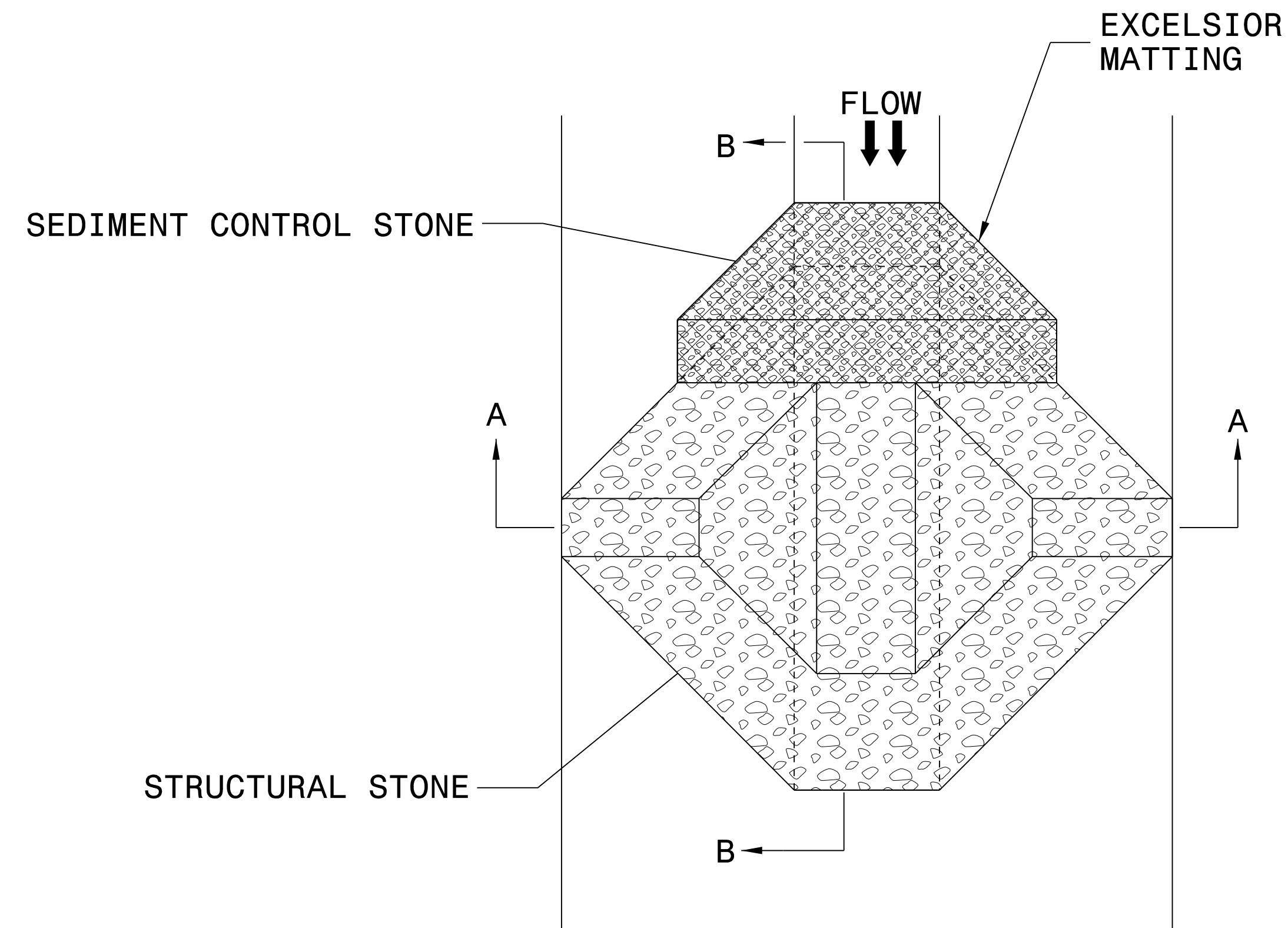
**INSET A**



**SIDE VIEW**



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



PLAN

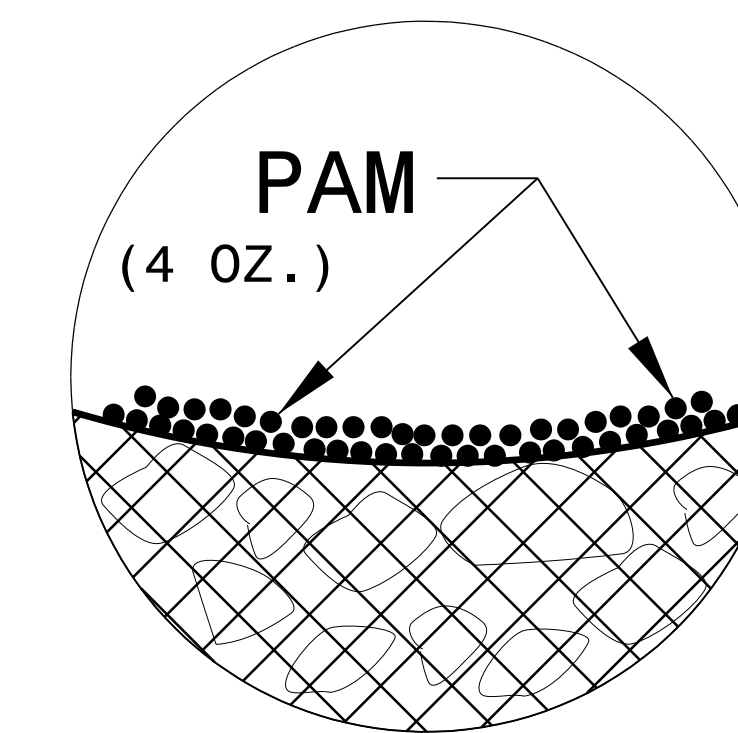
**NOTES:**

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

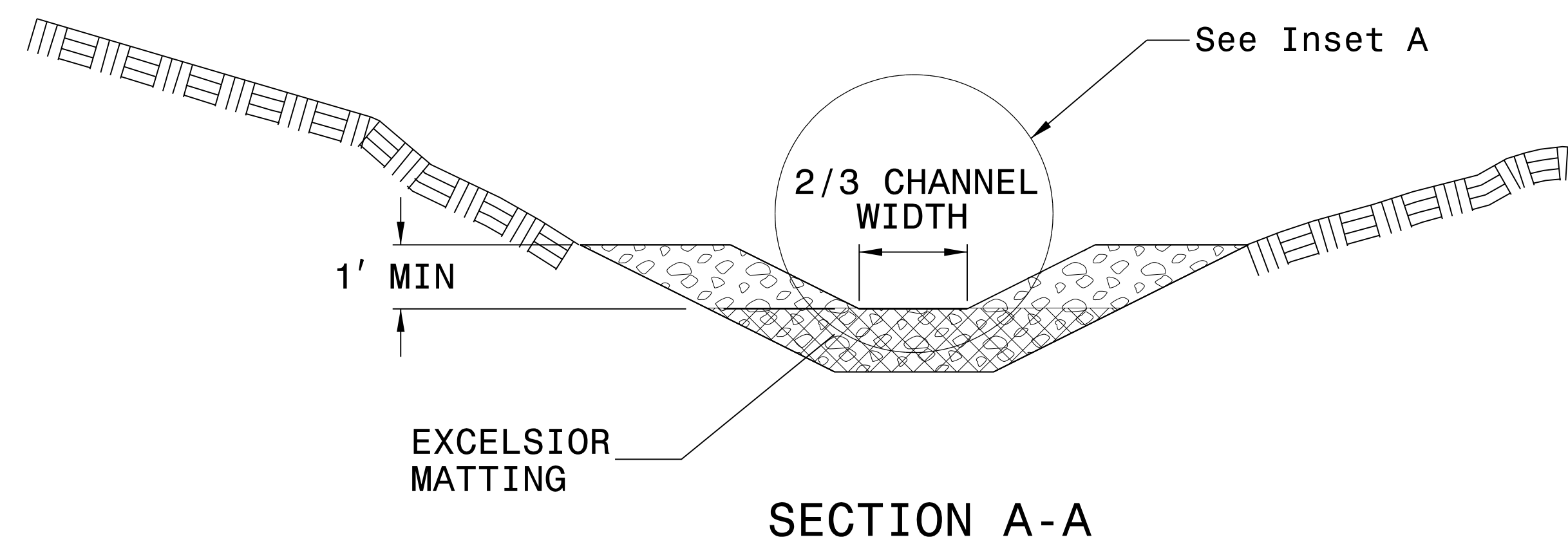
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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.

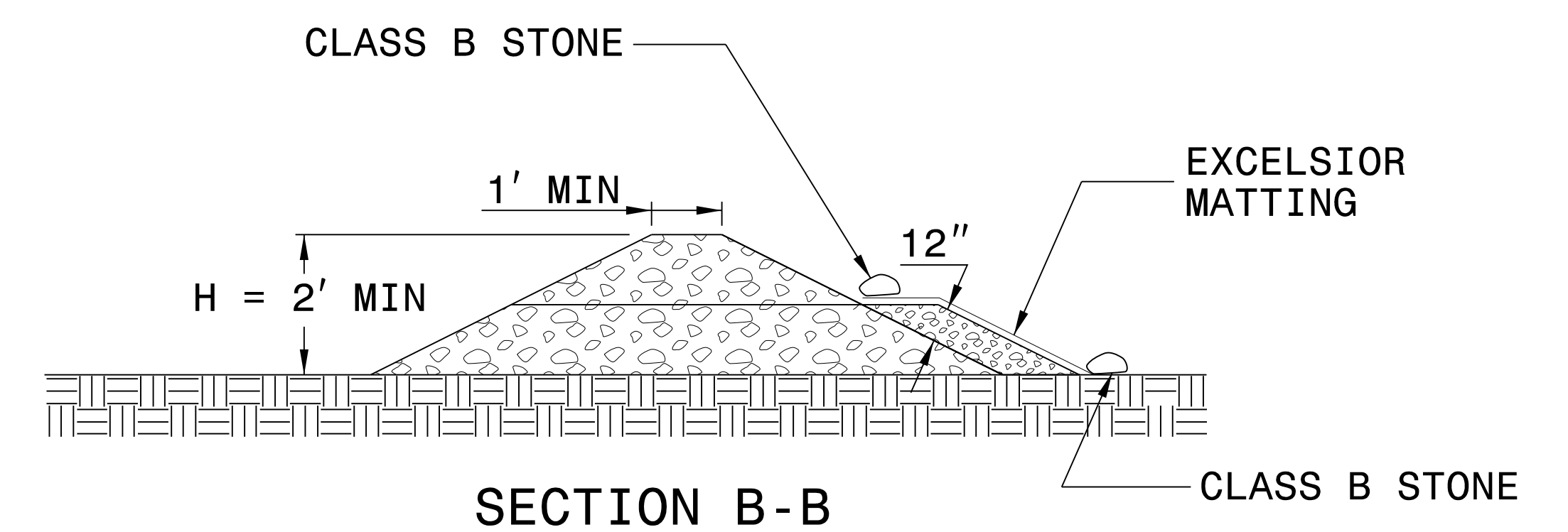
INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION A-A



SECTION B-B

NOT TO SCALE



DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

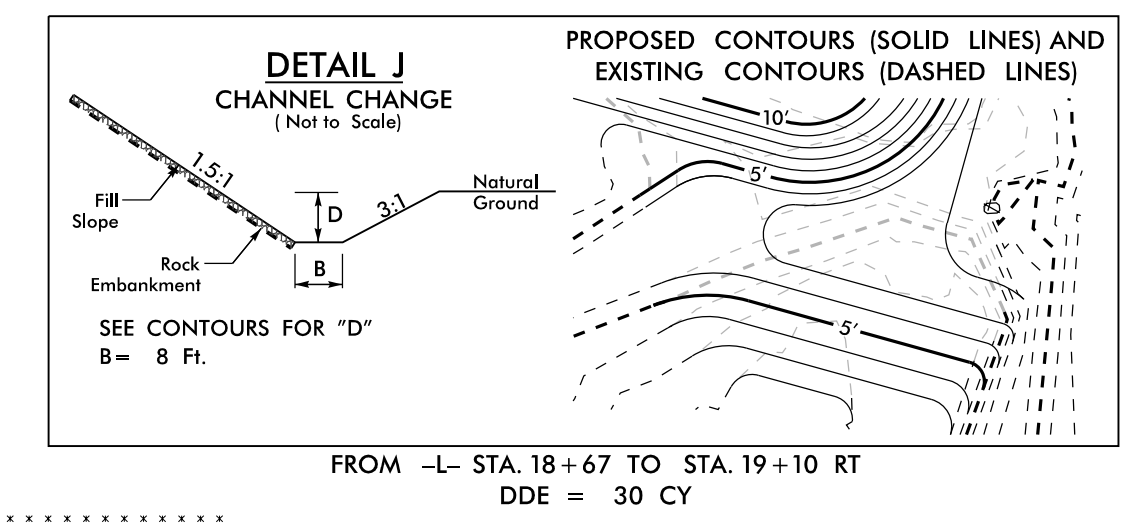
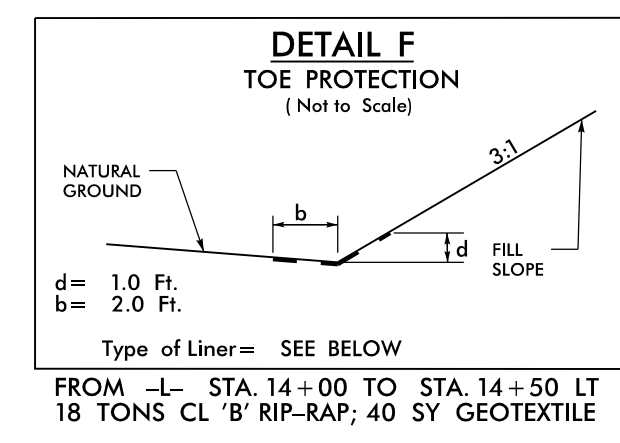
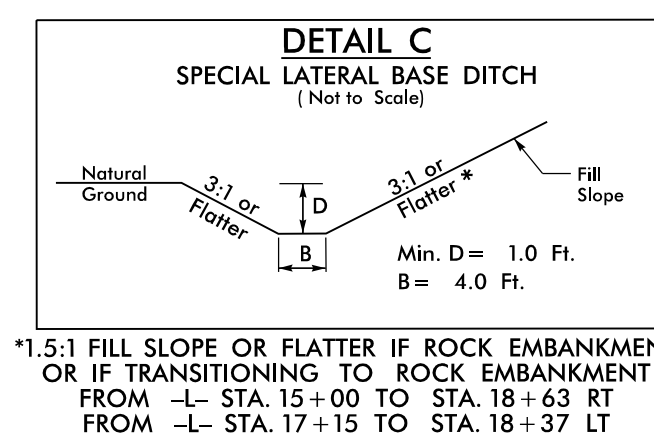
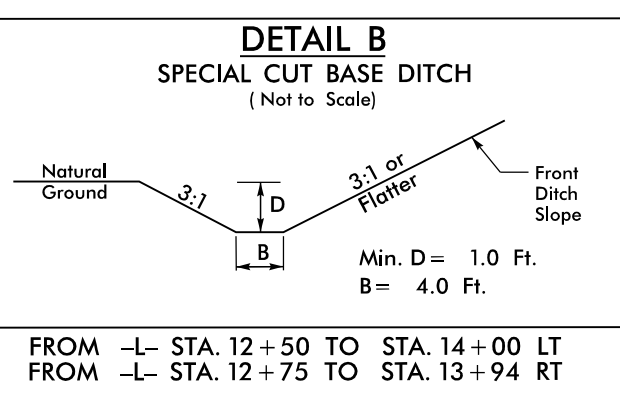
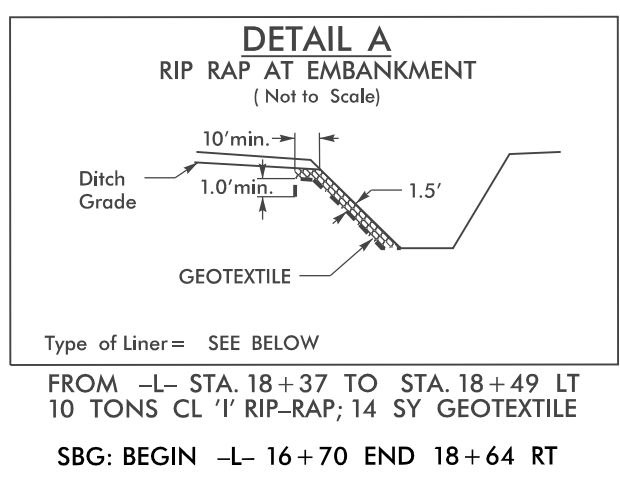
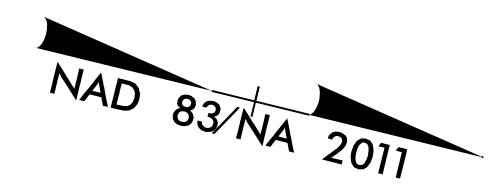
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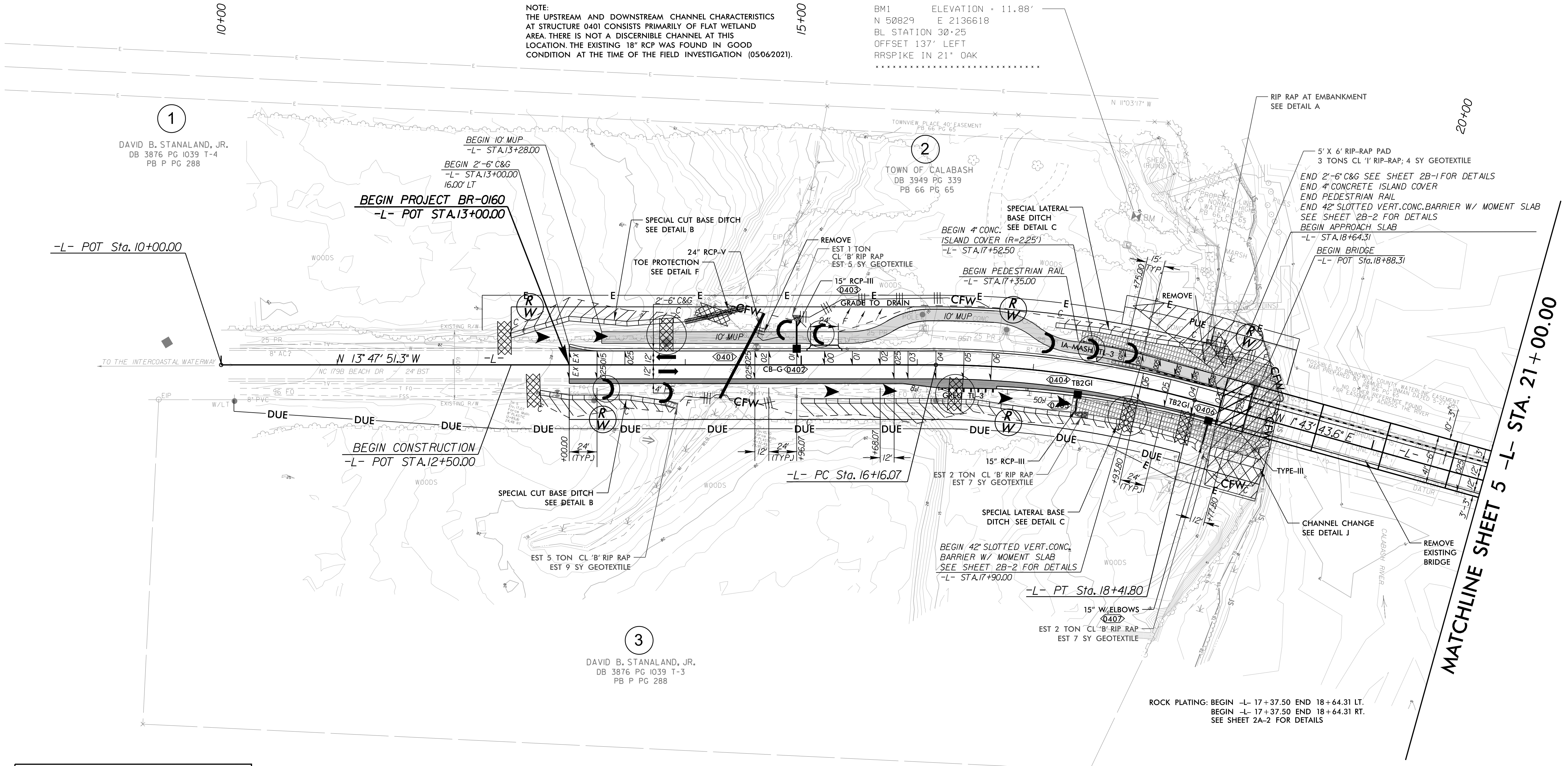
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## ***SOIL STABILIZATION TIMEFRAMES***

<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.



NOTE:  
THE UPSTREAM AND DOWNSTREAM CHANNEL CHARACTERISTICS AT STRUCTURE 0401 CONSISTS PRIMARILY OF FLAT WETLAND AREA. THERE IS NOT A DISCERNIBLE CHANNEL AT THIS LOCATION. THE EXISTING 18" RCP WAS FOUND IN GOOD CONDITION AT THE TIME OF THE FIELD INVESTIGATION (05062021).



NOTE: UTILIZE FLOATING TURBIDITY CURTAIN WHERE APPLICABLE.

NOTE: UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

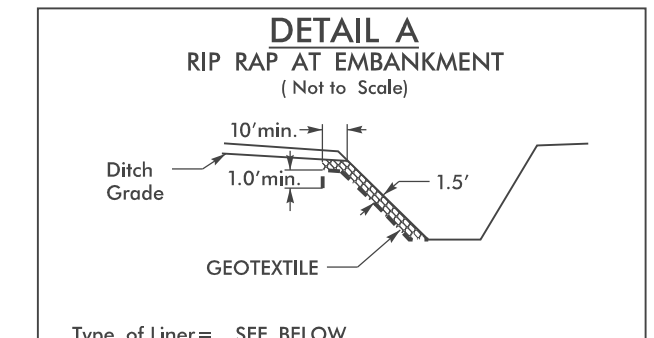
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.



-L- CURVE DATA  
PI Sta 17+29.63  
Δ = 15° 31' 34.9" (RT)  
D = 6' 52" 41.7"  
L = 225.73'  
T = 113.56'  
R = 833.00'  
SE = 06  
RO = 144'

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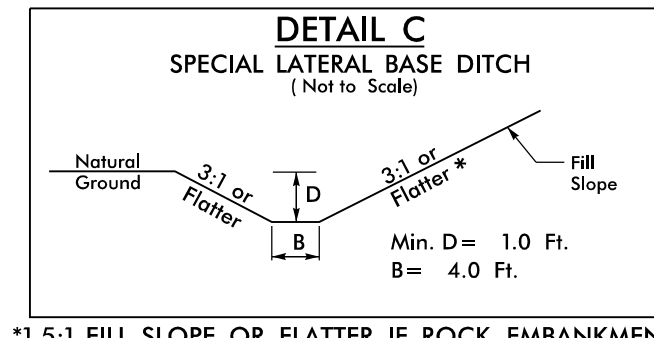




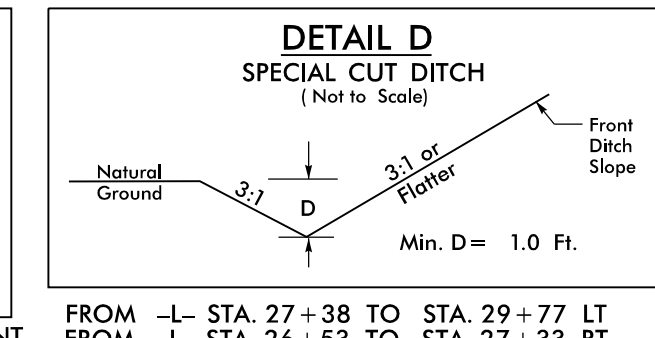
FROM -L- STA. 24+43 TO STA. 24+67 RT  
12 TONS CL '1' RIP-RAP; 17 SY GEOTEXTILE

FROM -L- STA. 24+48 TO STA. 24+79 LT  
25 TONS CL '1' RIP-RAP; 35 SY GEOTEXTILE

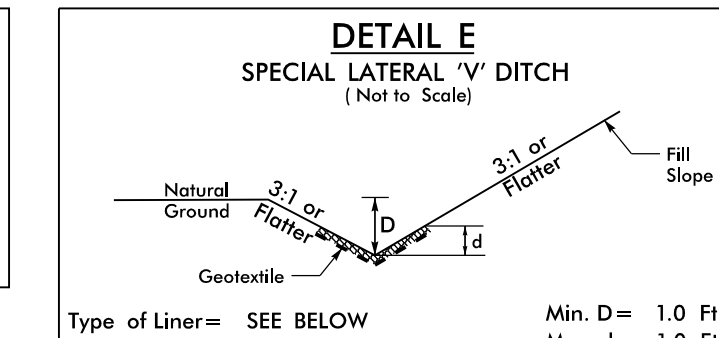
SBG: BEGIN -L- 24+91 END 25+10 RT



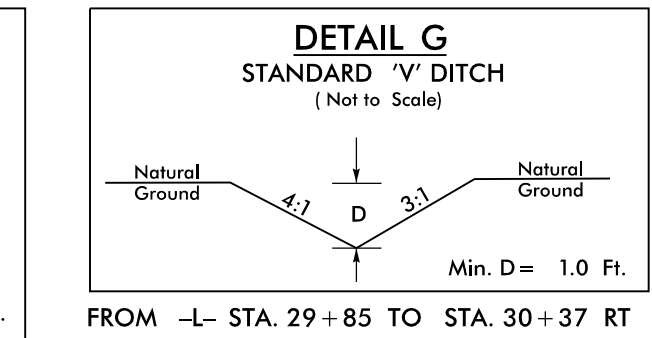
\*1.5:1 FILL SLOPE OR FLATTER IF ROCK EMBANKMENT OR IF TRANSITIONING TO ROCK EMBANKMENT



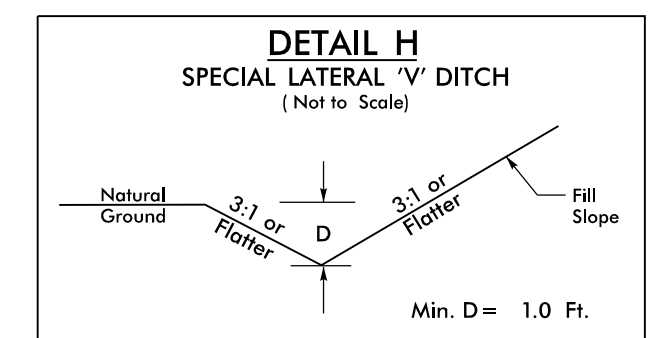
FROM -L- STA. 27+38 TO STA. 29+77 LT  
FROM -L- STA. 26+53 TO STA. 27+33 RT  
FROM -L- STA. 27+53 TO STA. 28+31 RT  
FROM -L- STA. 28+54 TO STA. 29+00 RT



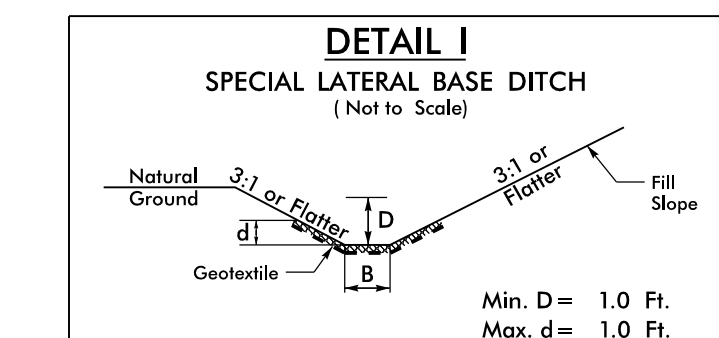
FROM -L- STA. 24+67 TO STA. 25+50 RT  
45 TONS CL '1' RIP-RAP; 63 SY GEOTEXTILE



FROM -L- STA. 29+85 TO STA. 30+37 RT

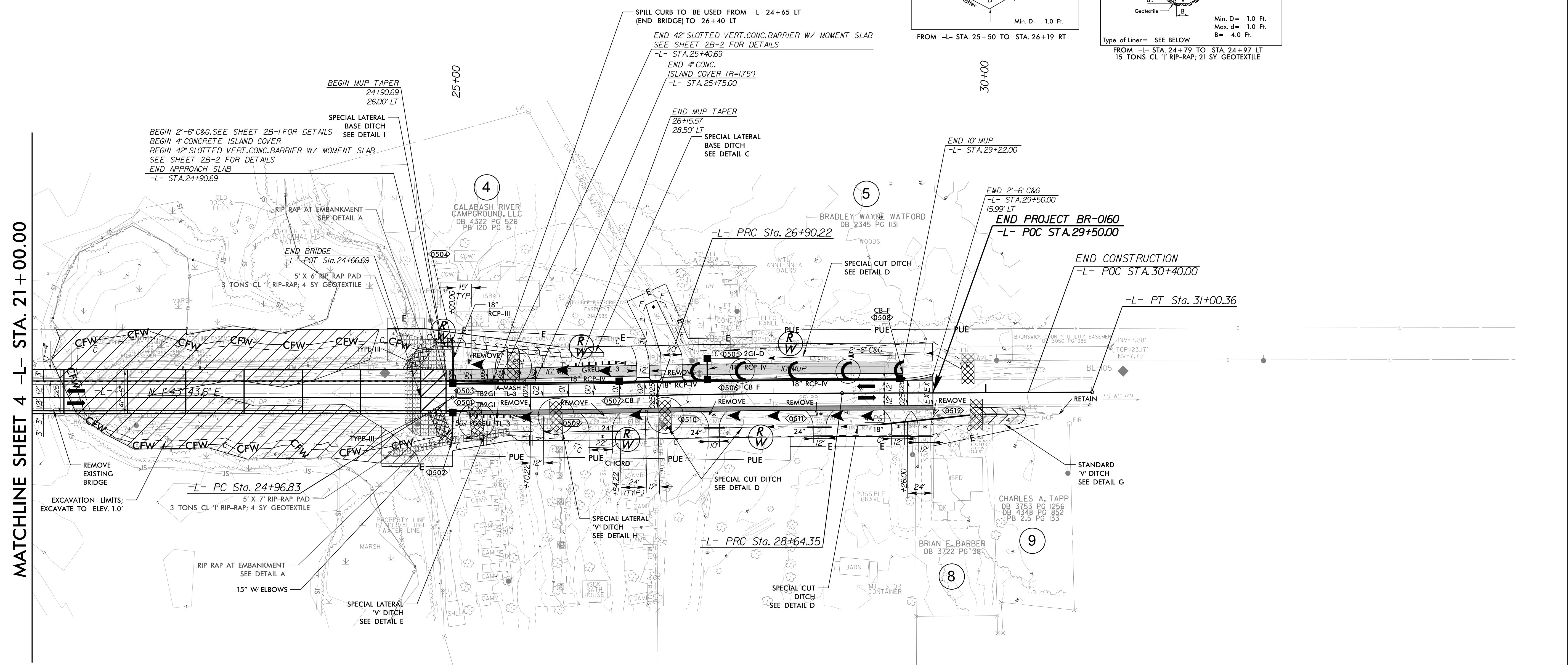


FROM -L- STA. 25+50 TO STA. 26+19 RT



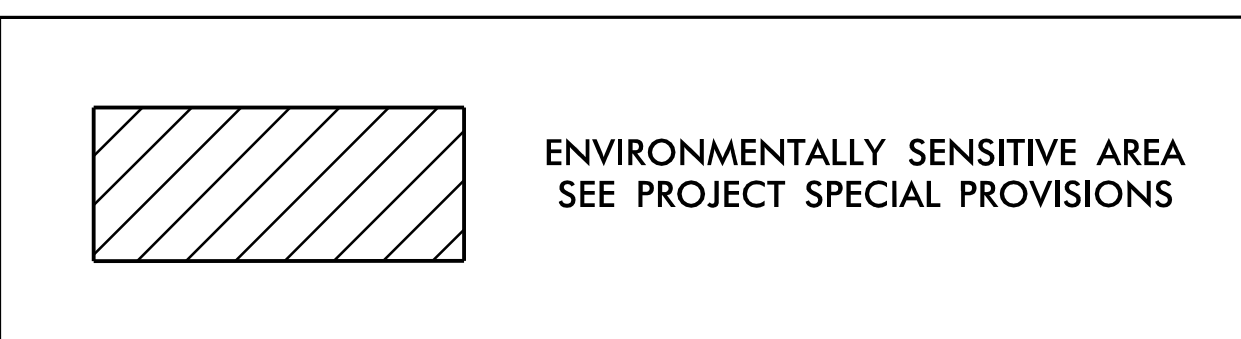
FROM -L- STA. 24+79 TO STA. 24+97 LT  
15 TONS CL '1' RIP-RAP; 21 SY GEOTEXTILE

MATCHLINE SHEET 4 -L- STA. 21+00.00



**NOTES:** ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.



**NOTE:** UTILIZE FLOATING TURBIDITY CURTAIN WHERE APPLICABLE.

**NOTE:** UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

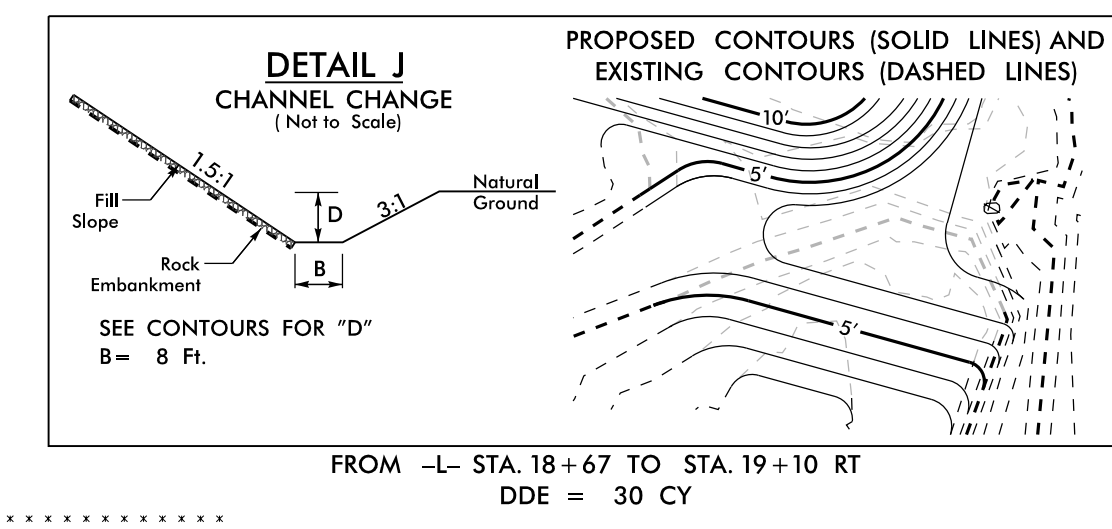
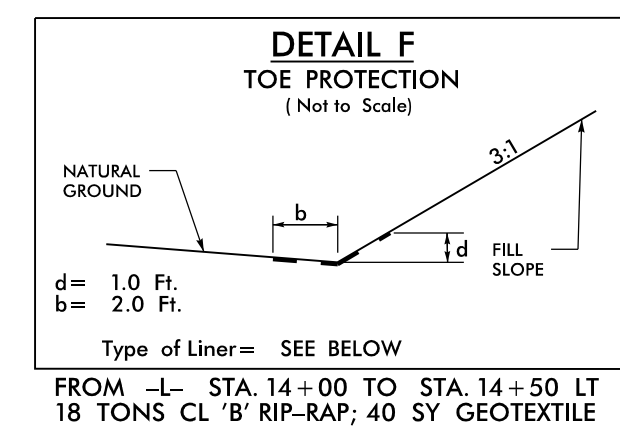
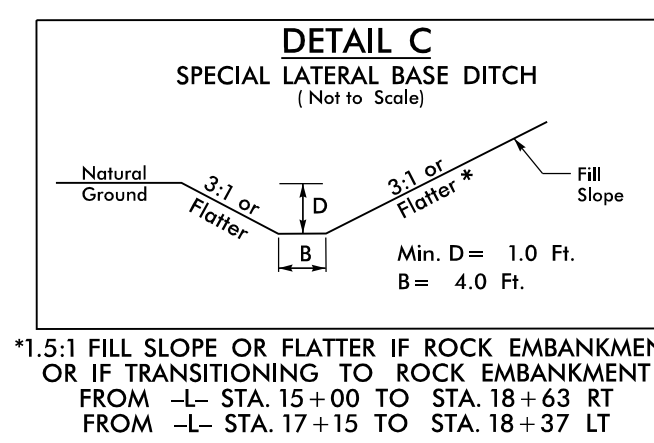
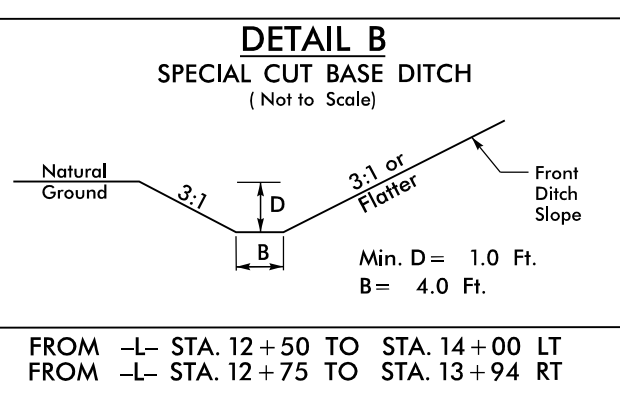
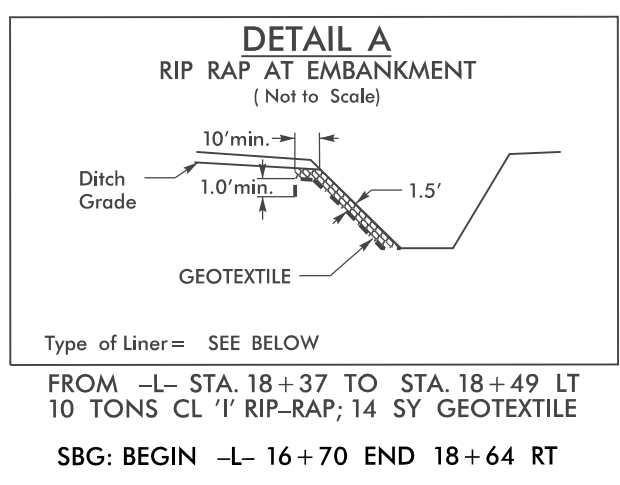
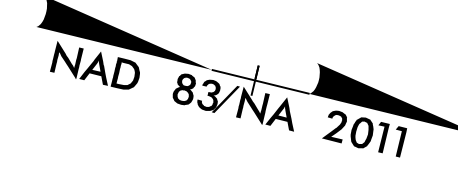
**NOTE:** CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5

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

-L- CURVE DATA

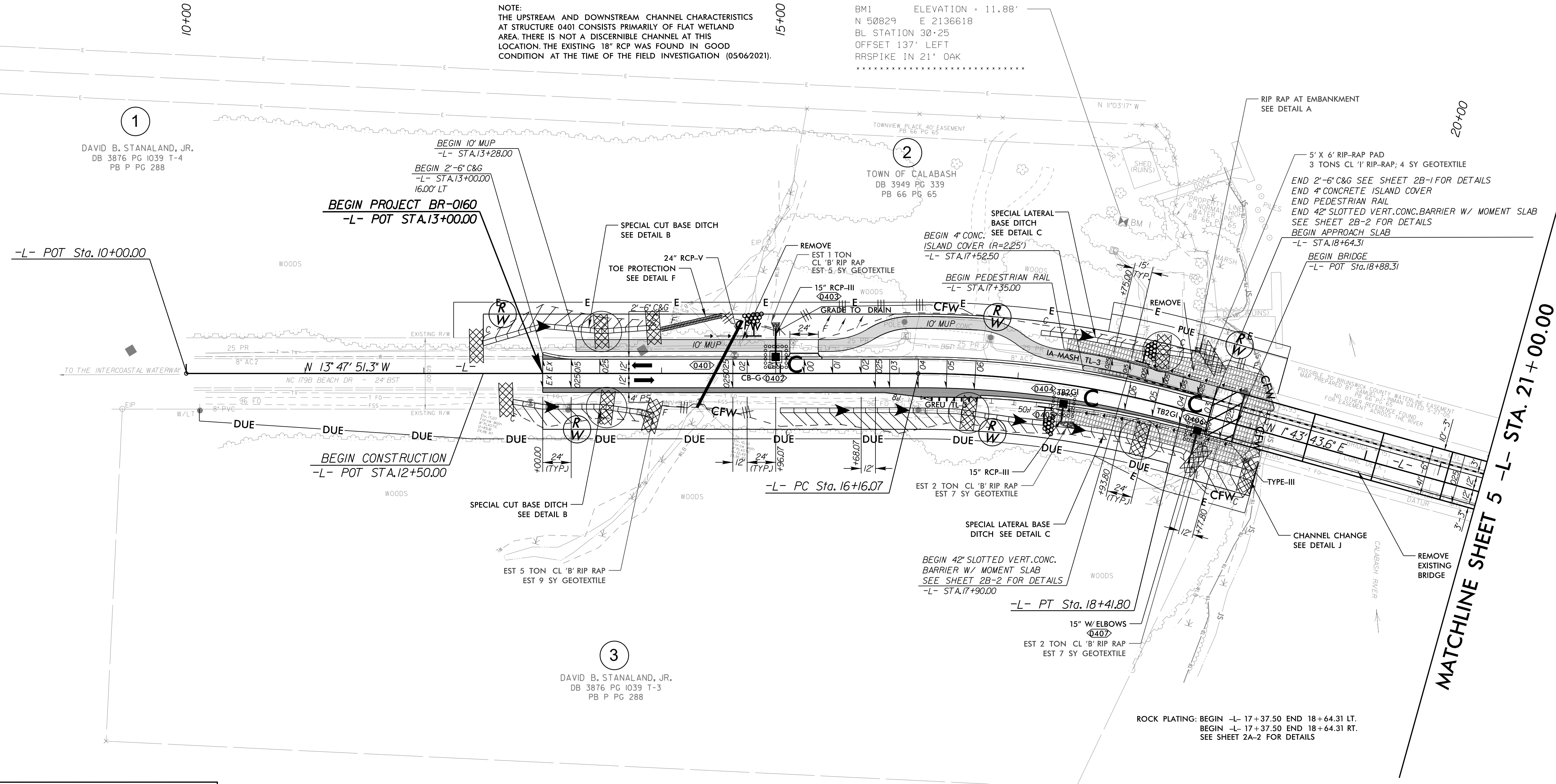
PI Sta. 25+93.53 Δ = 1°13' 52.3" (LT) D = 0° 38' 11.8" L = 193.40' T = 96.70' R = 9,000.00' SE = NC RO = 84°	PI Sta. 27+77.29 Δ = 1°06' 30.7" (RT) D = 0° 38' 11.8" L = 174.13' T = 87.07' R = 9,000.00' SE = NC	PI Sta. 29+82.35 Δ = 0°13' 46.8" (LT) D = 0° 05' 50.3" L = 236.01' T = 118.01' R = 58,879.33' SE = NC AH = N 1°22' 35.1" E
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NOTE:  
THE UPSTREAM AND DOWNSTREAM CHANNEL CHARACTERISTICS AT STRUCTURE 0401 CONSISTS PRIMARILY OF FLAT WETLAND AREA. THERE IS NOT A DISCERNIBLE CHANNEL AT THIS LOCATION. THE EXISTING 18" RCP WAS FOUND IN GOOD CONDITION AT THE TIME OF THE FIELD INVESTIGATION (05062021).

\*\*\*\*\*  
BM1 ELEVATION = 11.88'  
N 50829 E 2136618  
BL STATION 30.25  
OFFSET 137' LEFT  
RRSPIKE IN 21' OAK  
\*\*\*\*\*



NOTE: UTILIZE FLOATING TURBIDITY CURTAIN WHERE APPLICABLE.

NOTE: UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

PLACE MATTING FOR EROSION CONTROL ON SLOPE AS WORK ALLOWS.  
-L- STA. 18+22 TO STA. 18+90 LT  
-L- STA. 18+56 TO STA. 18+90 RT

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAPS, TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

-L- CURVE DATA  
PI Sta 17+29.63  
Δ = 15° 31' 34.9" (RT)  
D = 6' 52" 41.7"  
L = 225.73'  
T = 113.56'  
R = 833.00'  
SE = 06  
RO = 144'

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