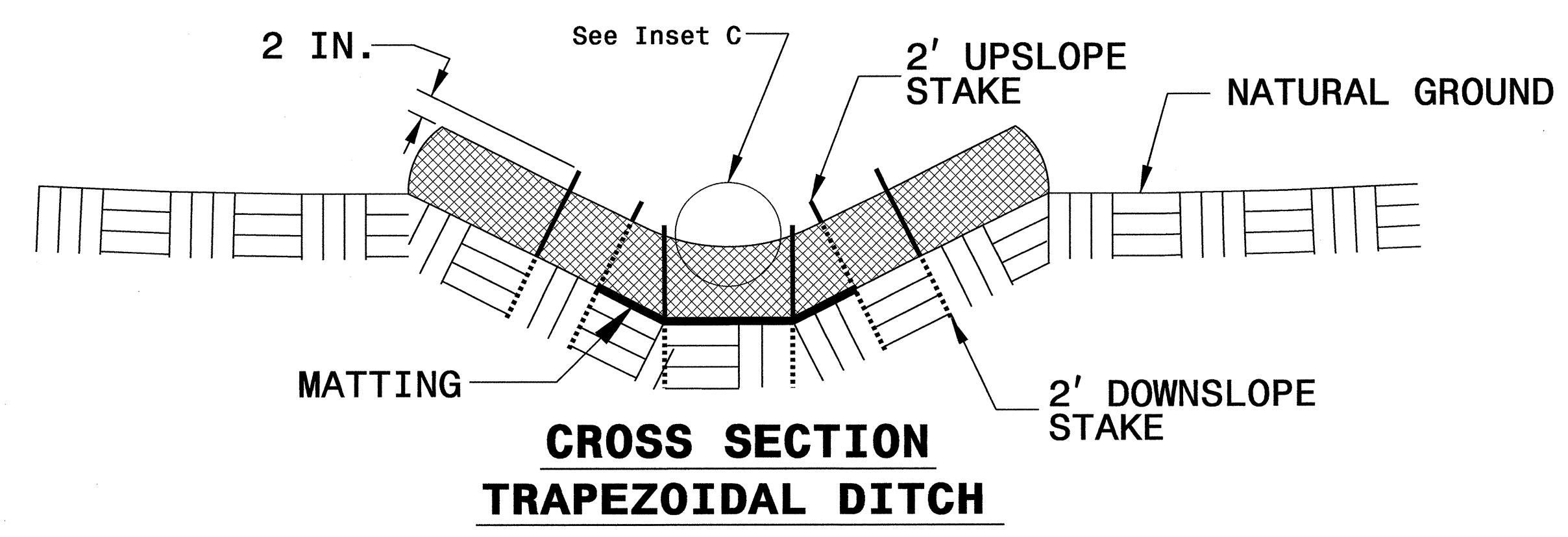
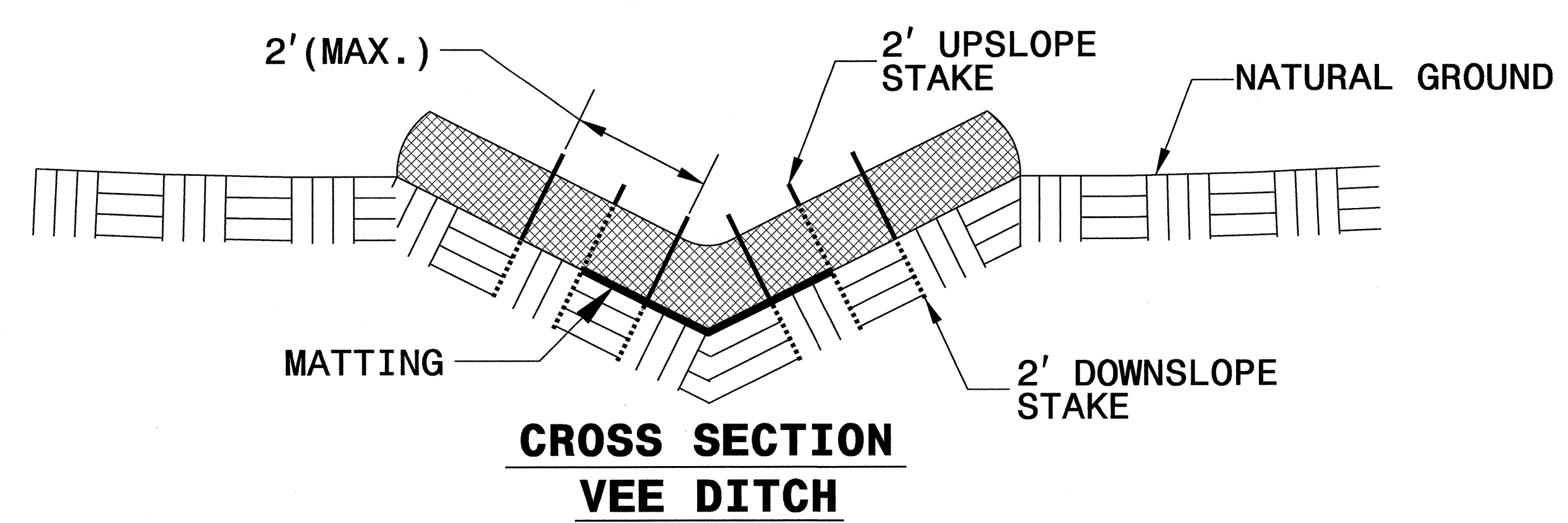
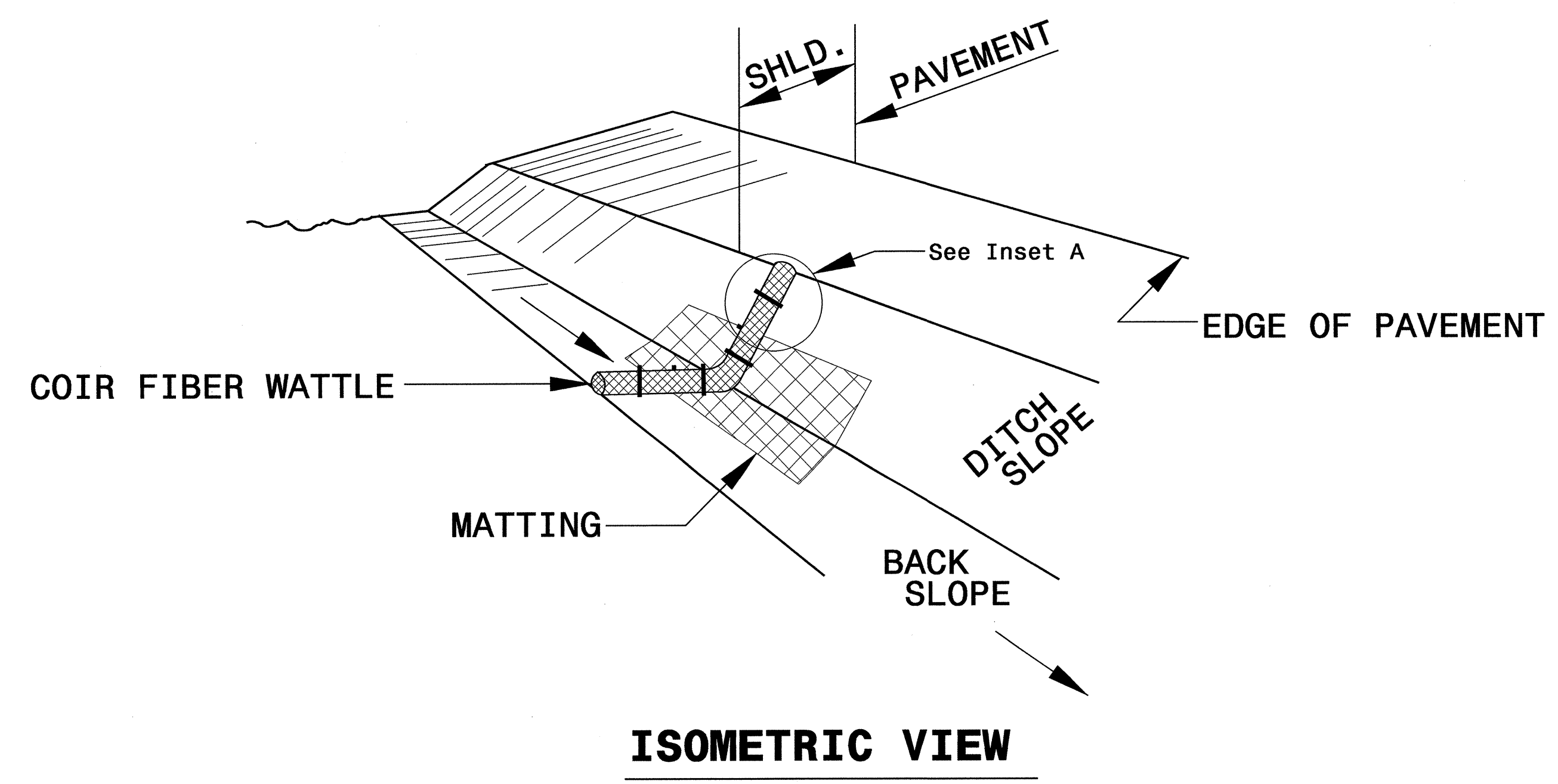
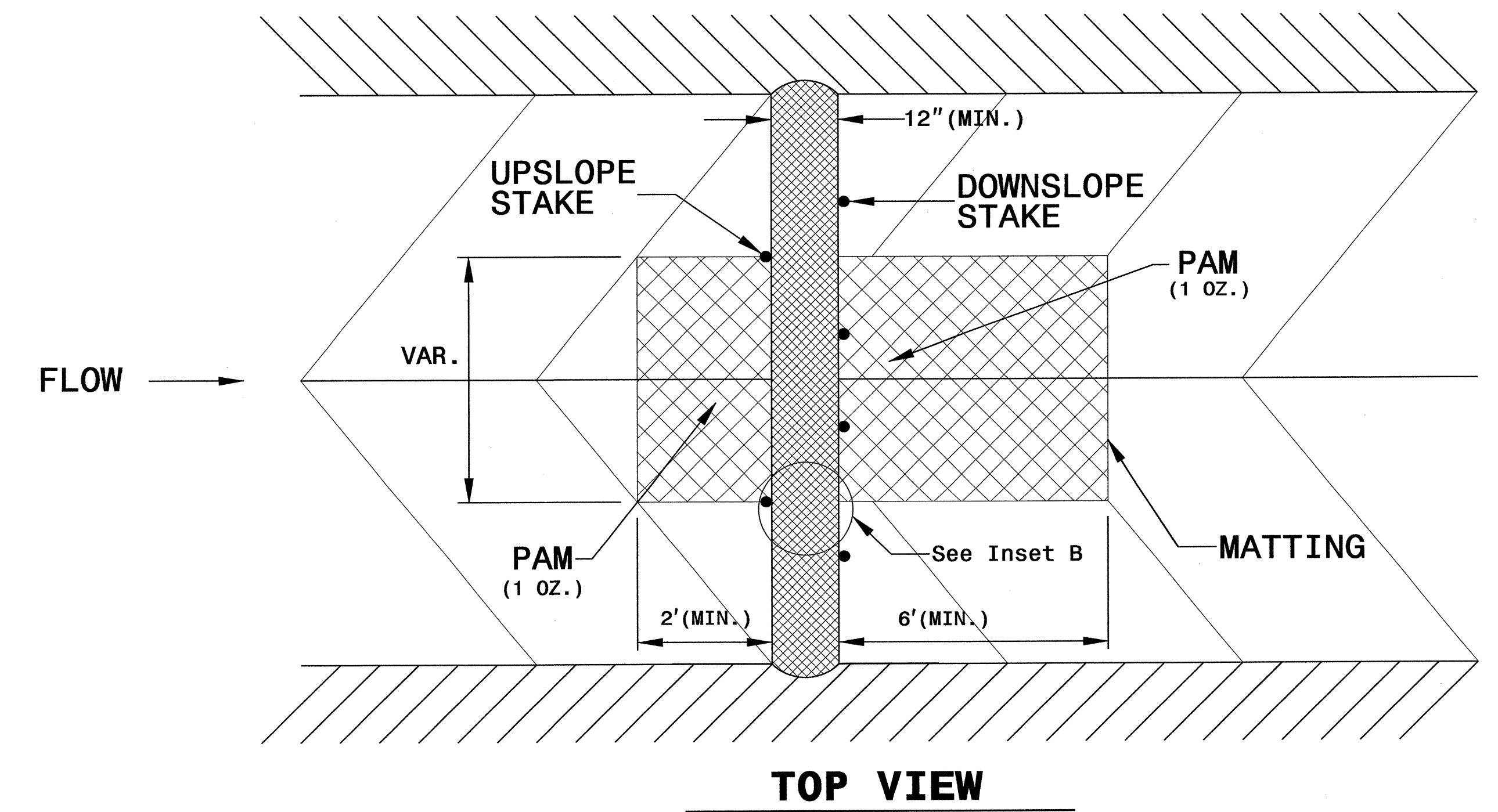
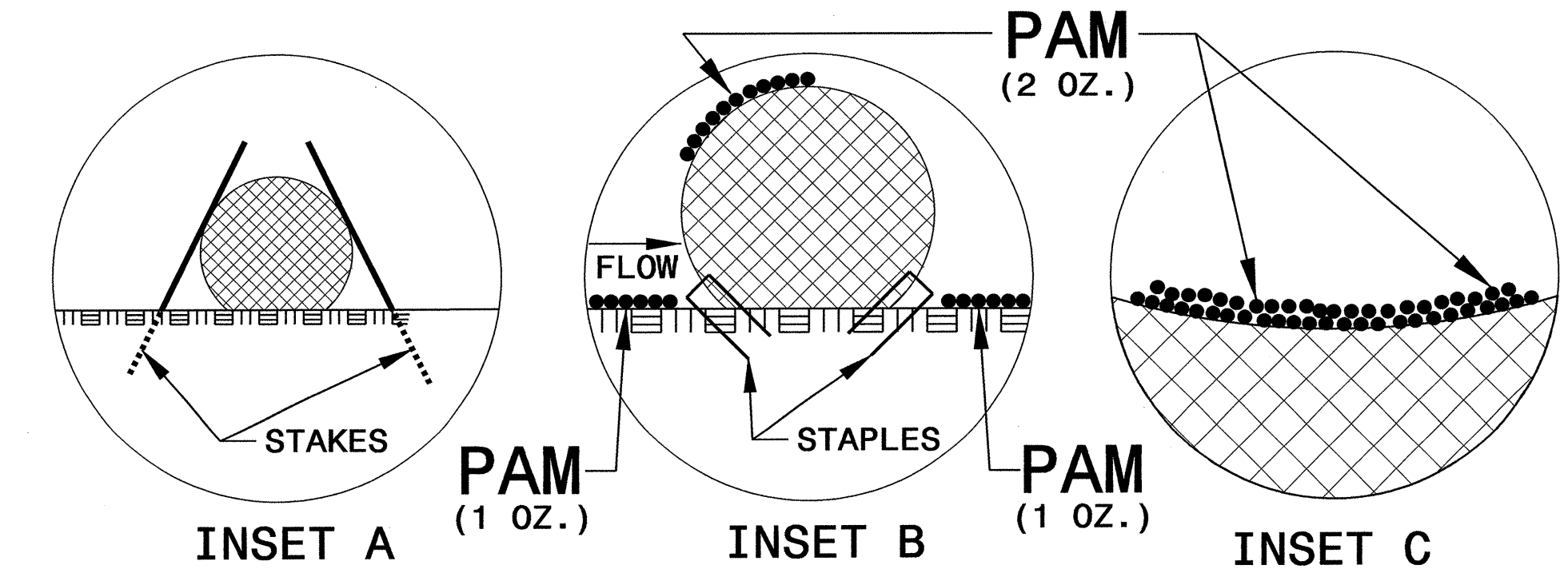


PROJECT REFERENCE NO. B-3841	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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.



DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. <i>B-384I</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.

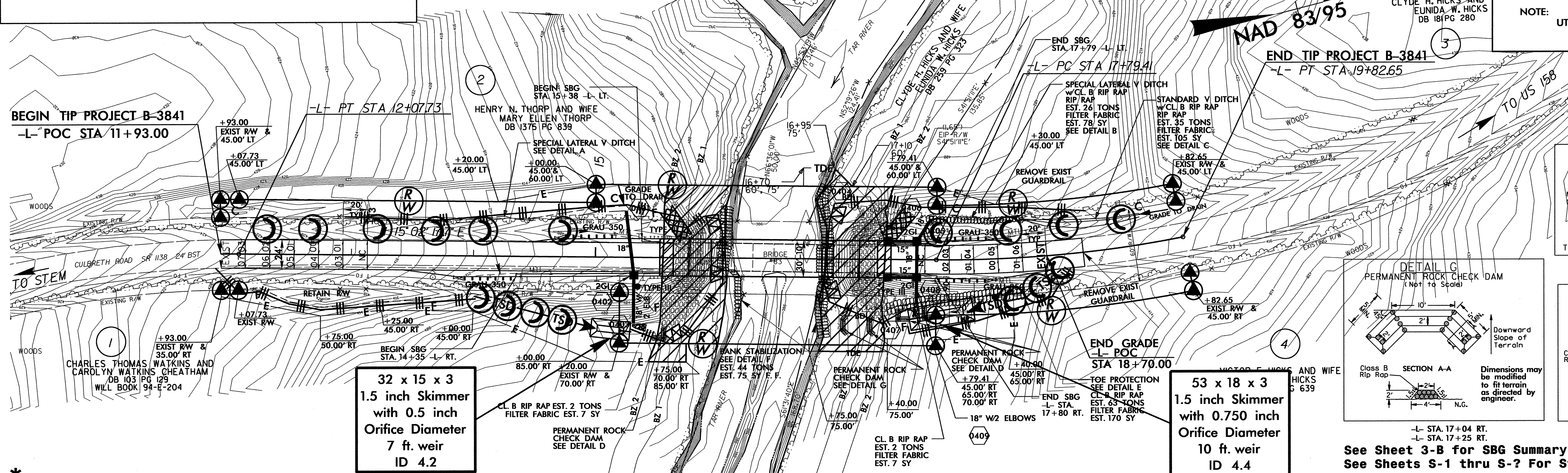
8/17/99

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

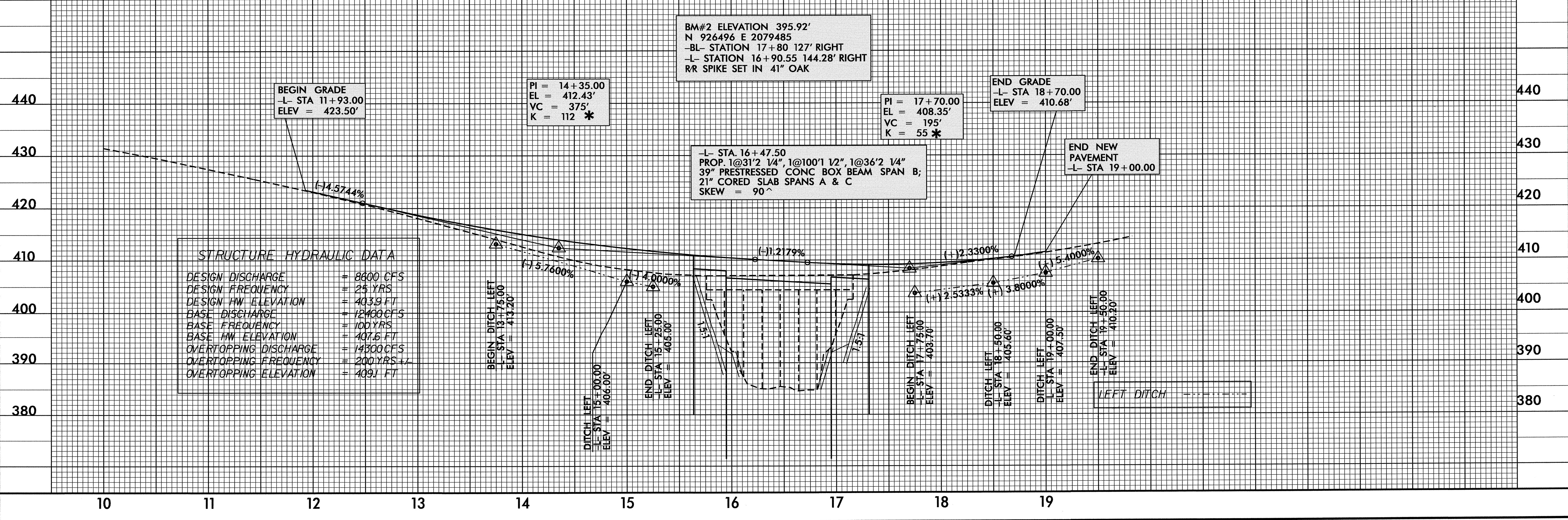
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

 ENVIRONMENTALLY SENSITIVE AREA SEE PROJECT SPECIAL PROVISIONS

PROJECT REFERENCE NO.	SHEET NO.
B-3841	EC-4/CONST.4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



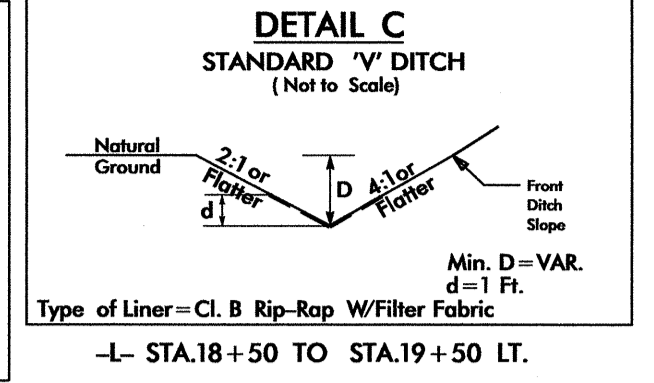
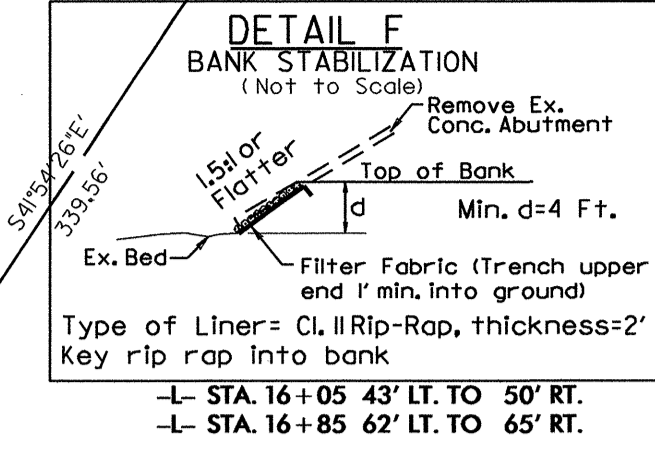
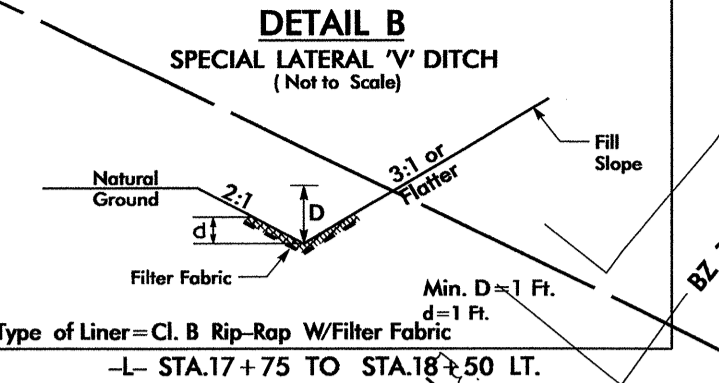
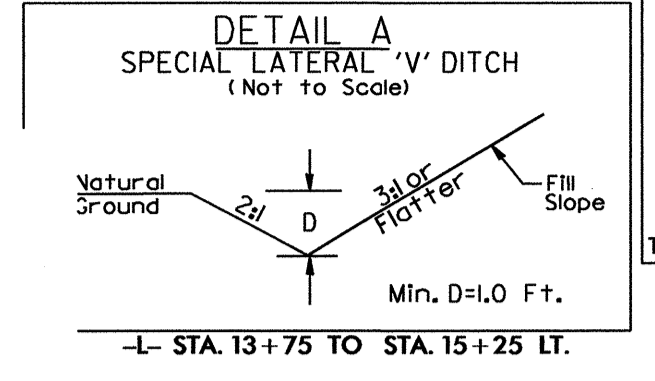
* NOTE: DESIGN EXCEPTION REQUIRED FOR K FACTOR ON VERTICAL SAG CURVES & STOPPING SIGHT DISTANCE



See Sheet 3-B for SBG Summary
See Sheets S-1 thru S-? For Structure Plans

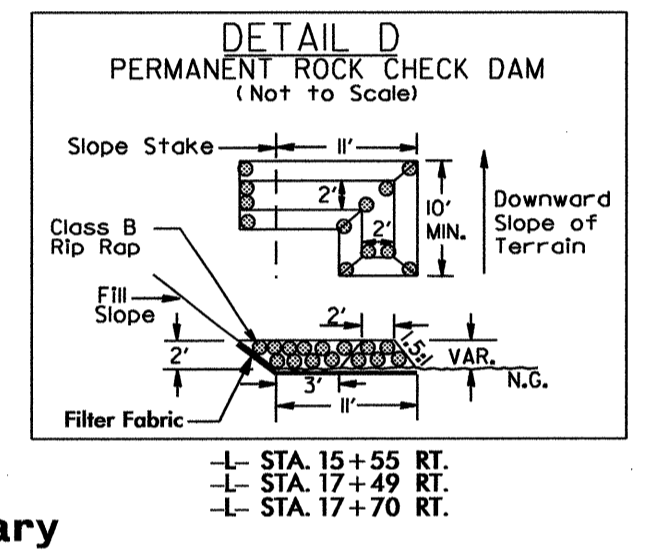
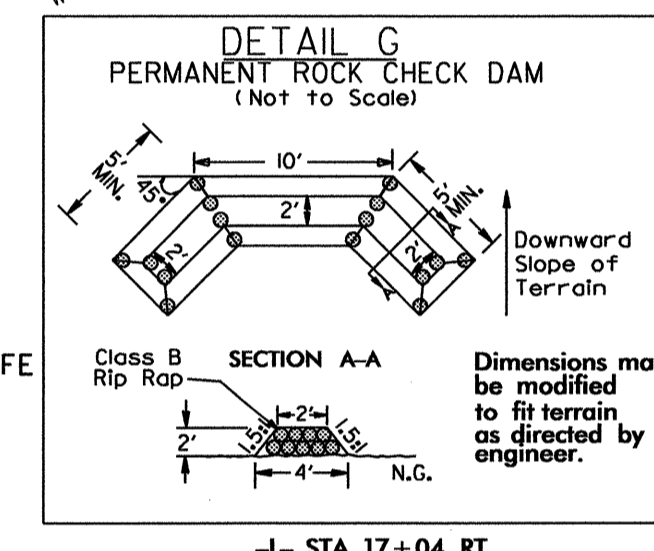
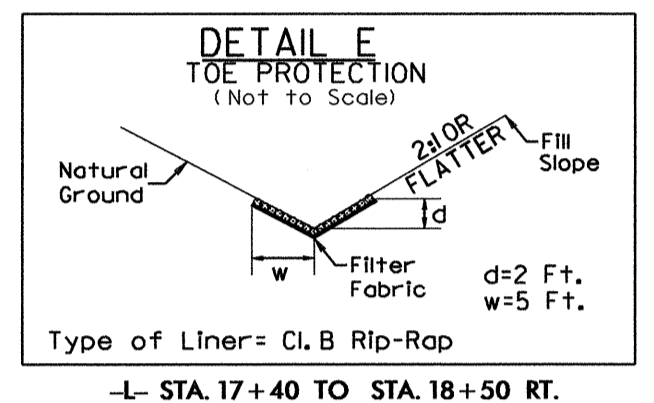
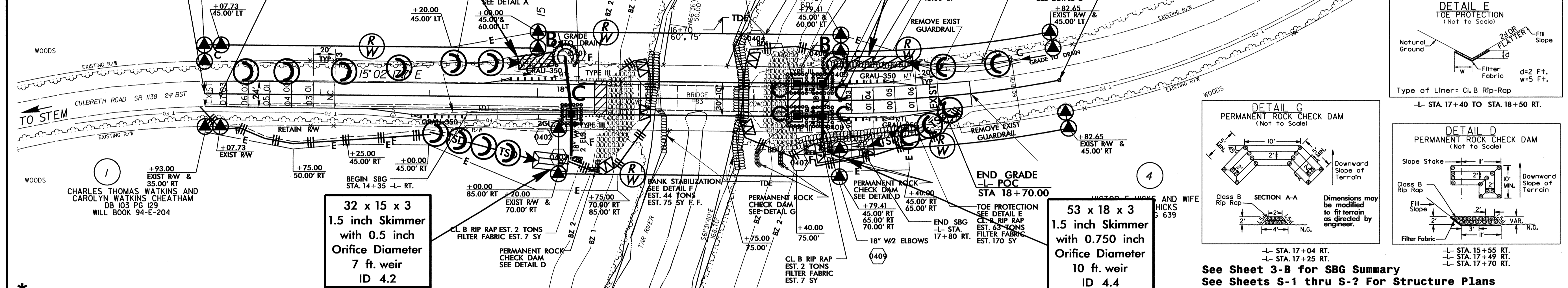
Place Matting for Erosion Control on Slope as Work Allows.

PROJECT REFERENCE NO. B-3841	SHEET NO. EC-5/CONST.4
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	



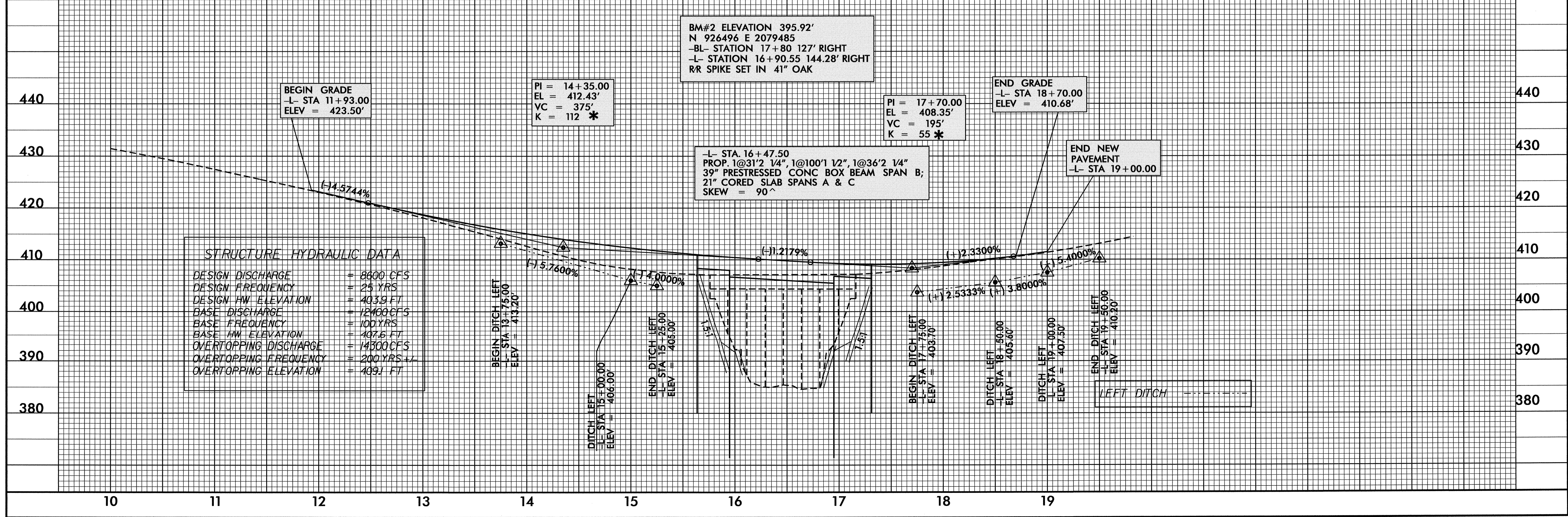
NOTE: UTILIZE SPECIAL STILLING BASIN WHERE APPLICABLE.

BEGIN TIP PROJECT B-3841
-L- POC STA 11+93.00



*NOTE: DESIGN EXCEPTION REQUIRED FOR K FACTOR ON VERTICAL SAG CURVES & STOPPING SIGHT DISTANCE

See Sheet 3-B for SBG Summary
See Sheets S-1 thru S-? For Structure Plans



BM#2 ELEVATION 395.92'
N 926496 E 2079485
-BL- STATION 17+80 127' RIGHT
-L- STATION 16+90.55 144.28' RIGHT
R/R SPIKE SET IN 41" OAK

BEGIN GRADE
-L- STA 11+93.00
ELEV = 423.50'

PI = 14+35.00
EL = 412.43'
VC = 375'
K = 112 *

PI = 17+70.00
EL = 408.35'
VC = 195'
K = 55 *

END GRADE
-L- STA 18+70.00
ELEV = 410.68'

-L- STA 16+47.50
PROP. 1@31' 1/4", 1@100' 1/2", 1@36' 1/4"
39" PRESTRESSED CONC BOX BEAM SPAN B;
21" CORED SLAB SPANS A & C
SKEW = 90°

END NEW PAVEMENT
-L- STA 19+00.00

DESIGN DISCHARGE	= 8600 CFS
DESIGN FREQUENCY	= 25 YRS
DESIGN HW ELEVATION	= 403.9 FT
BASE DISCHARGE	= 12400 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 407.6 FT
OVERTOPPING DISCHARGE	= 14300 CFS
OVERTOPPING FREQUENCY	= 200 YRS
OVERTOPPING ELEVATION	= 409.1 FT

BEGIN DITCH LEFT
-L- STA 13+75.00
ELEV = 413.20'

DITCH LEFT
-L- STA 15+00.00
ELEV = 406.00'

END DITCH LEFT
-L- STA 15+25.00
ELEV = 405.00'

BEGIN DITCH LEFT
-L- STA 17+75.00
ELEV = 403.70'

DITCH LEFT
-L- STA 18+50.00
ELEV = 405.60'

DITCH LEFT
-L- STA 19+00.00
ELEV = 407.50'

END DITCH LEFT
-L- STA 19+50.00
ELEV = 410.20'

LEFT DITCH