

TIP PROJECT: U-3423

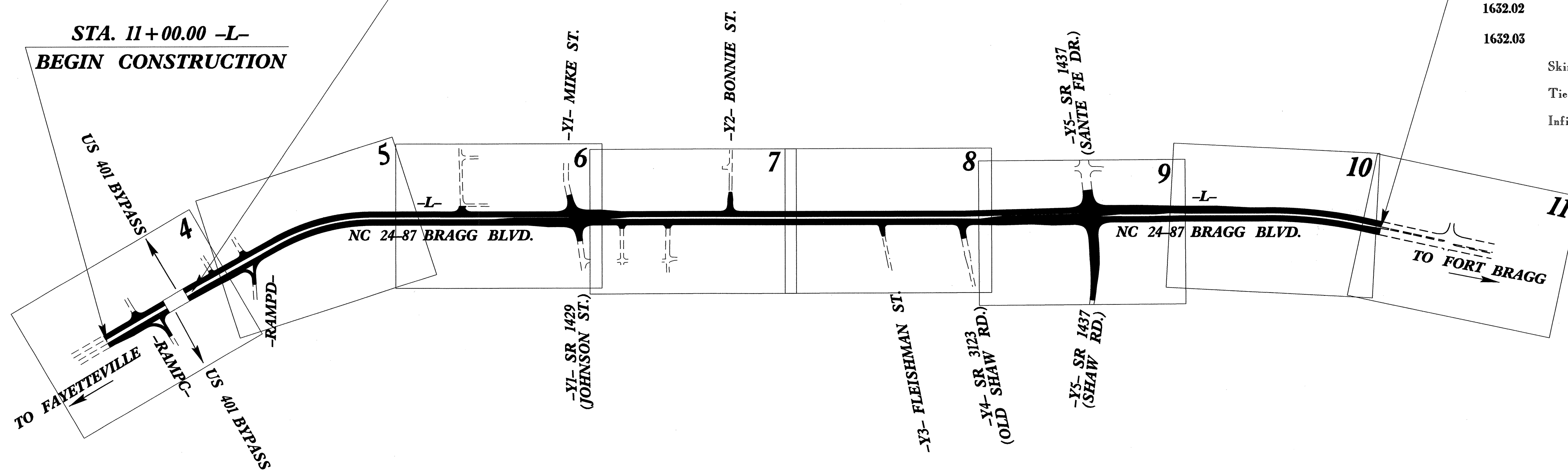
STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
 PLAN FOR PROPOSED
 HIGHWAY EROSION CONTROL
CUMBERLAND COUNTY

LOCATION: NC 24 - 87 (BRAGG BOULEVARD) FROM THE US 401 BYPASS TO NORTH OF SR 1437 (SANTE FE DRIVE /SHAW ROAD)

TYPE OF WORK: GRADING, DRAINAGE, PAVING, WIDENING, CURB & GUTTER, SIGNALS, AND OVERHEAD SIGNING

STA. 18+15.00 -L- BEGIN TIP PROJECT U-3423

STA. 105+57.51 -L- END TIP PROJECT U-3423



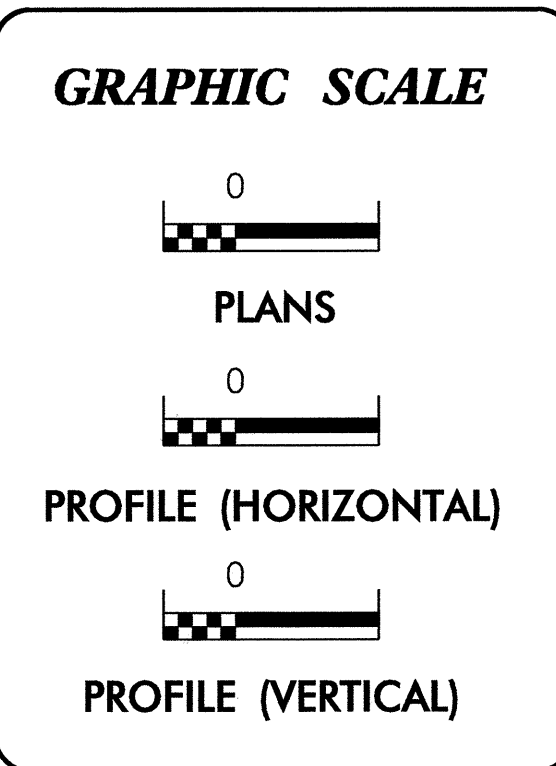
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-3423	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch.....	TD
1630.05	Temporary Diversion.....	TD
1605.01	Temporary Silt Fence.....	III III III
1606.01	Special Sediment Control Fence.....	▲▲▲▲▲
1622.01	Temporary Berms and Slope Drains.....	▲
	Silt Basin Type B.....	▨
1653.01	Temporary Rock Silt Check Type-A.....	▨
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM).....	▨
	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.....	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.

303(d) IMPAIRED WATER(S) EXIST ON THIS PROJECT
 303(d) Impaired Water Zone(s) Exist From Sta. 11+00 to Sta. 105+57
 Refer To E. C. Special Provisions for Special Considerations.



ROADSIDE ENVIRONMENTAL UNIT
 DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA

Prepared in the Office of:
ROADSIDE ENVIRONMENTAL UNIT
 1 South Wilmington St.
 Raleigh, NC 27611
2006 STANDARD SPECIFICATIONS

Roadway Standard Drawings

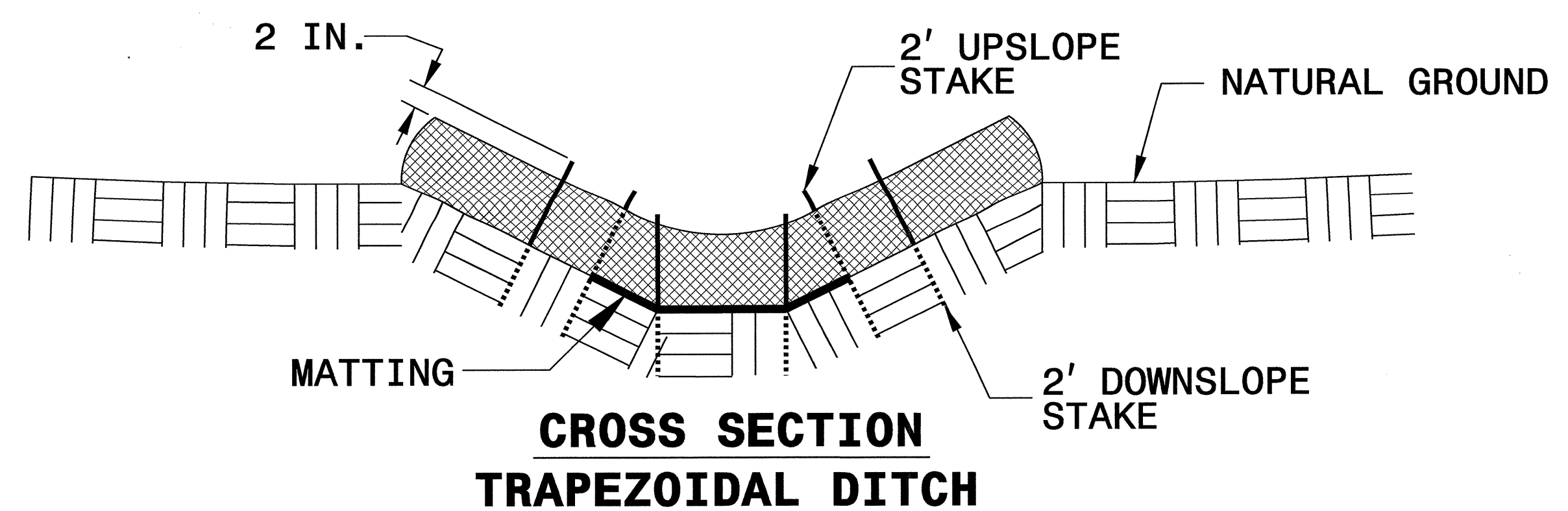
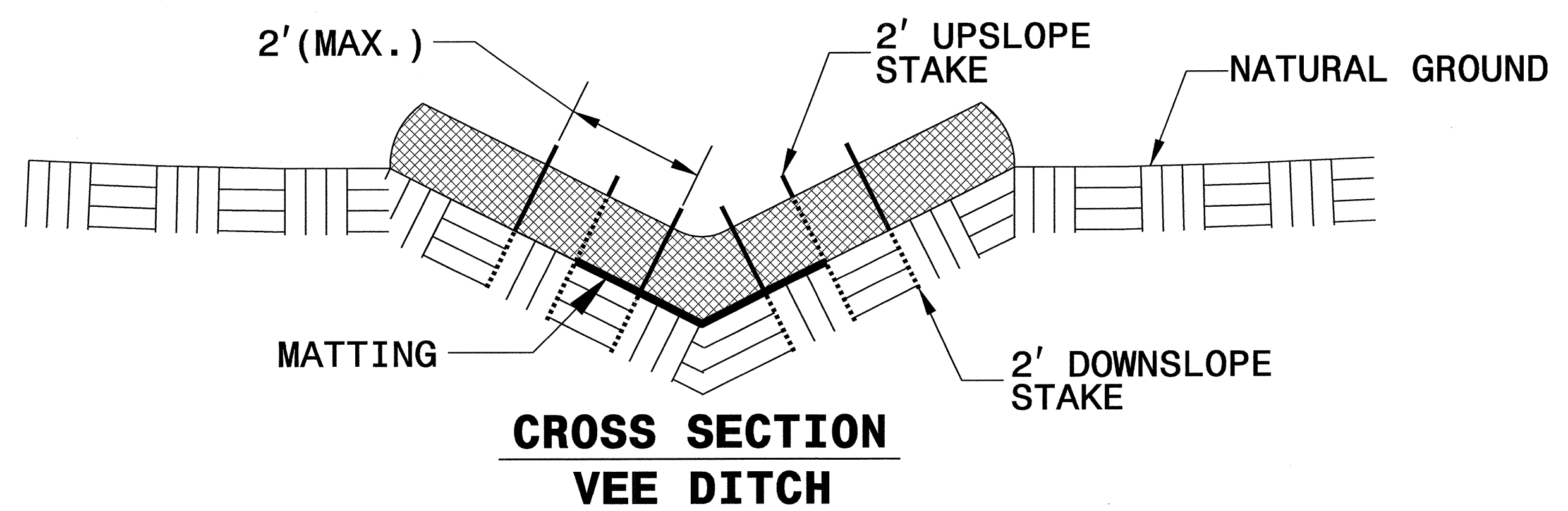
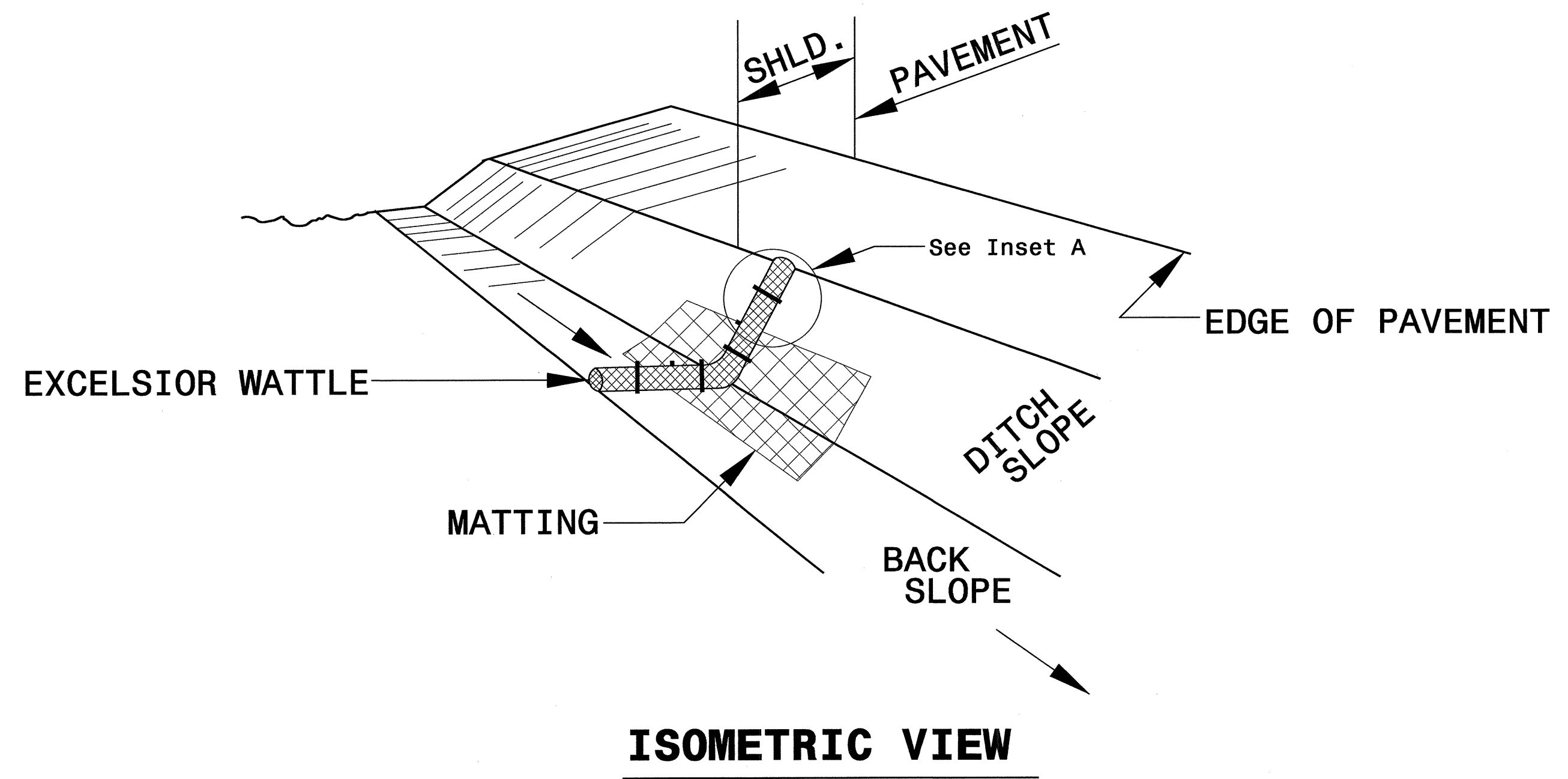
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

- 1605.01 Temporary Silt Fence
- 1606.01 Special Sediment Control Fence
- 1607.01 Gravel Construction Entrance
- 1622.01 Temporary Berms and Slope Drains
- 1632.02 Rock Inlet Sediment Trap Type B
- 1632.03 Rock Inlet Sediment Trap Type C
- 1633.01 Temporary Rock Silt Check Type A
- 1635.01 Rock Pipe Inlet Sediment Trap Type A

02-MAR-2010 09:32
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PROJECT REFERENCE NO. U-3423	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

WATTLE DETAIL



NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

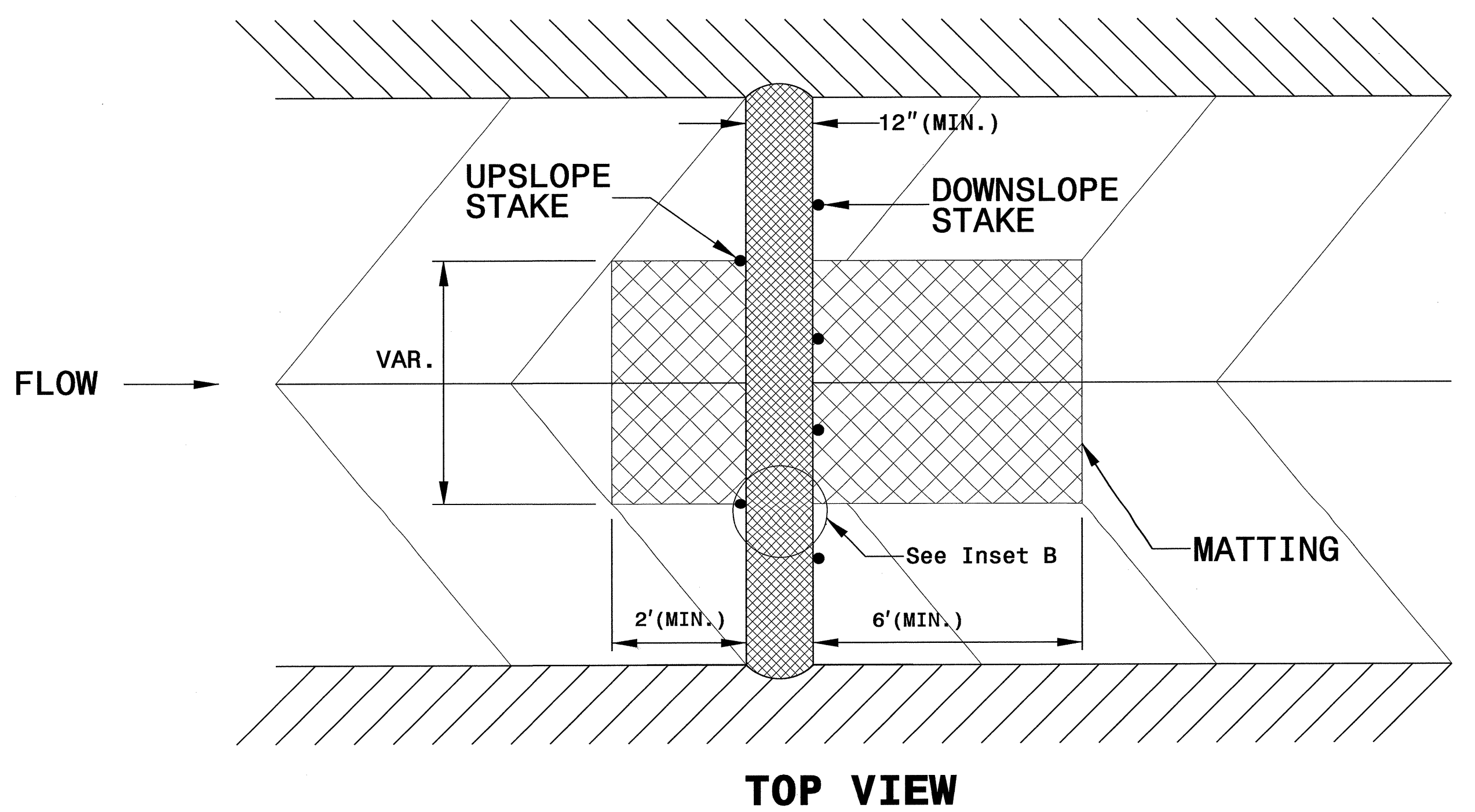
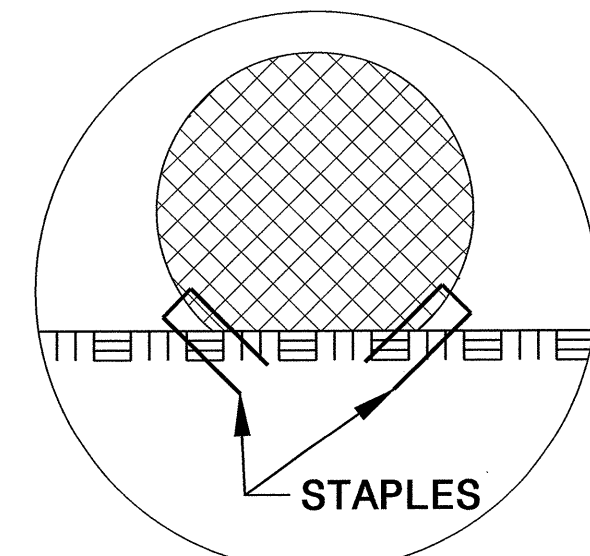
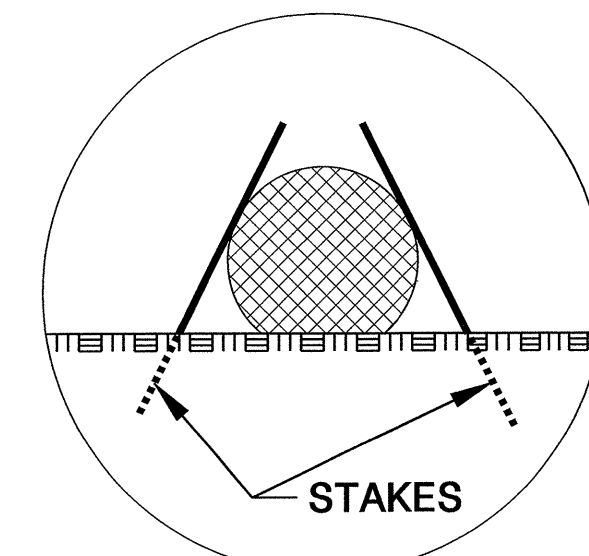
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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.

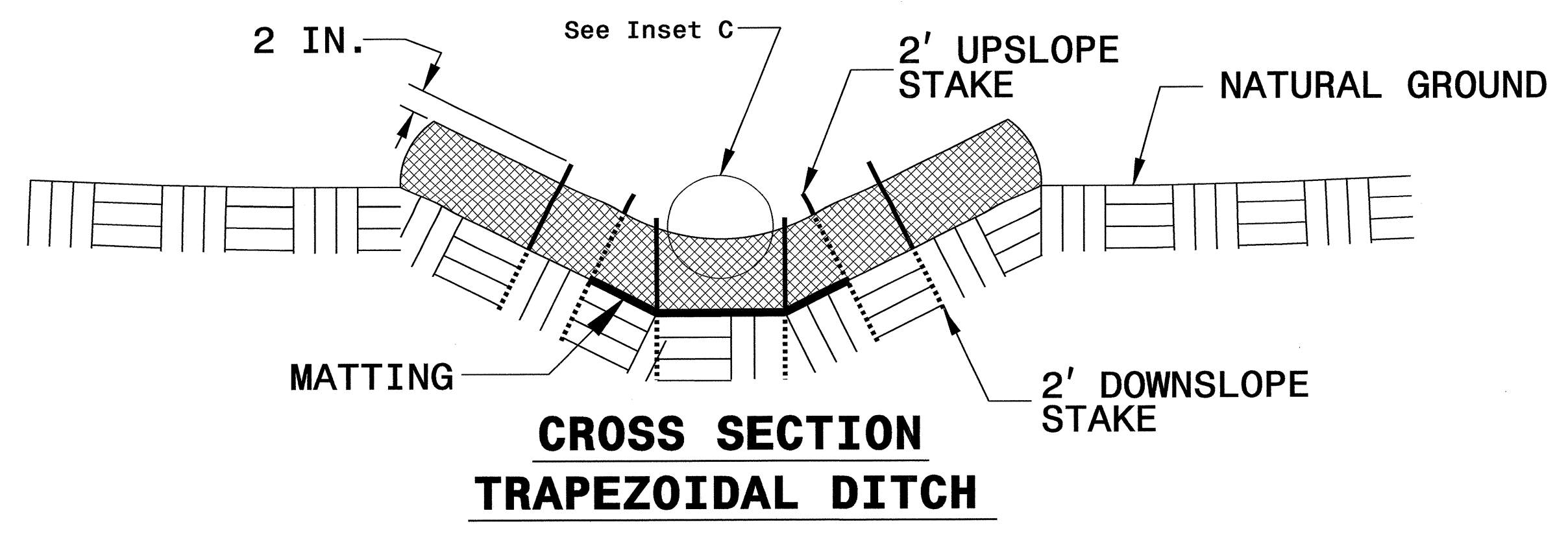
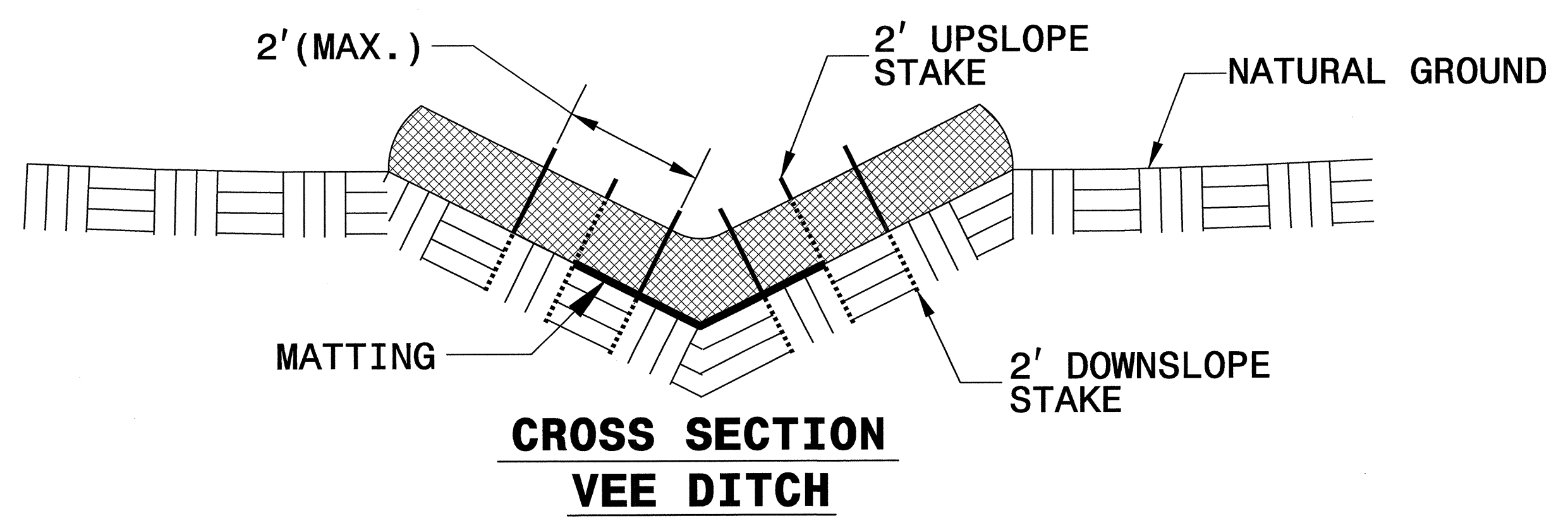
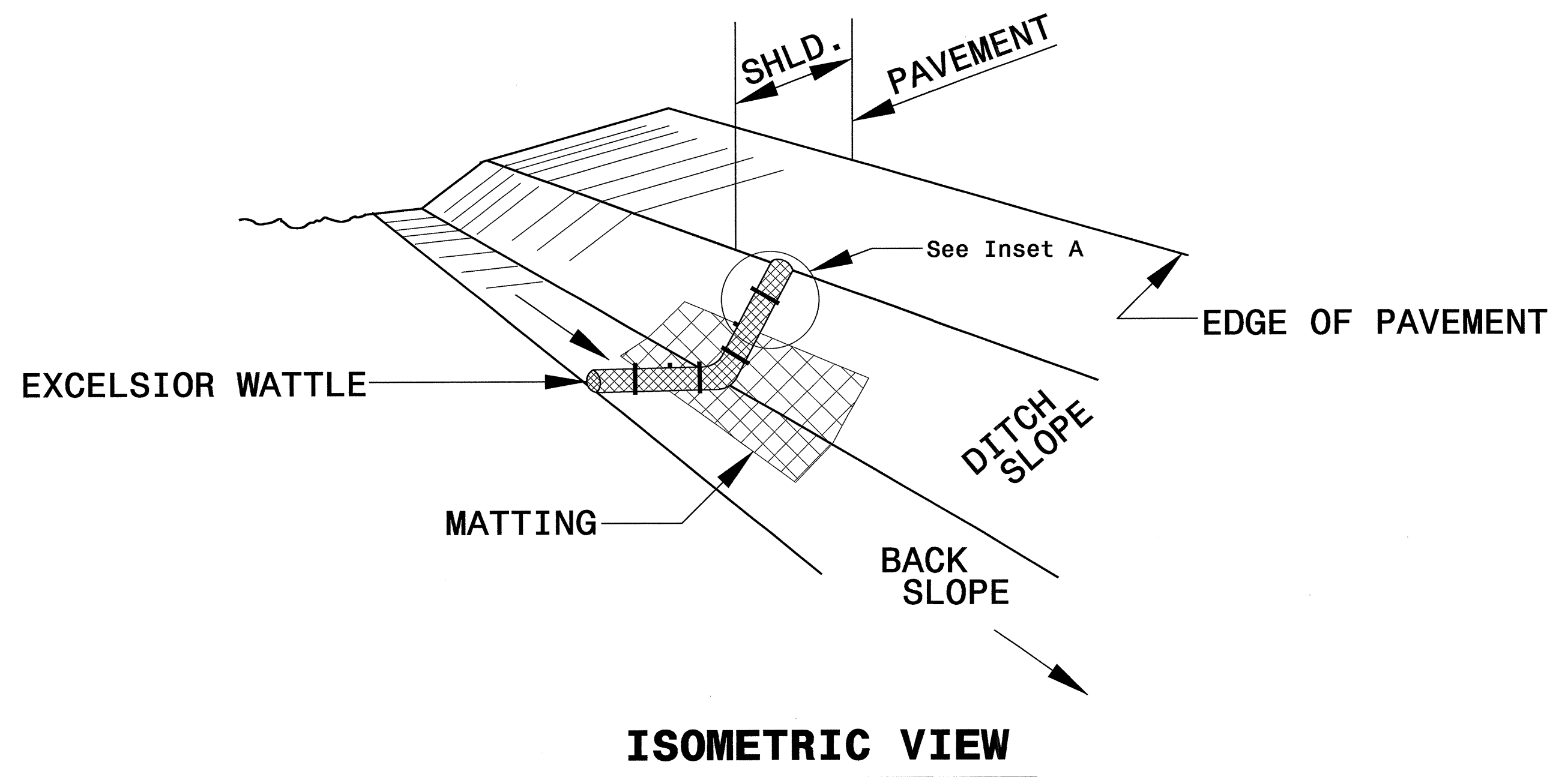
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

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



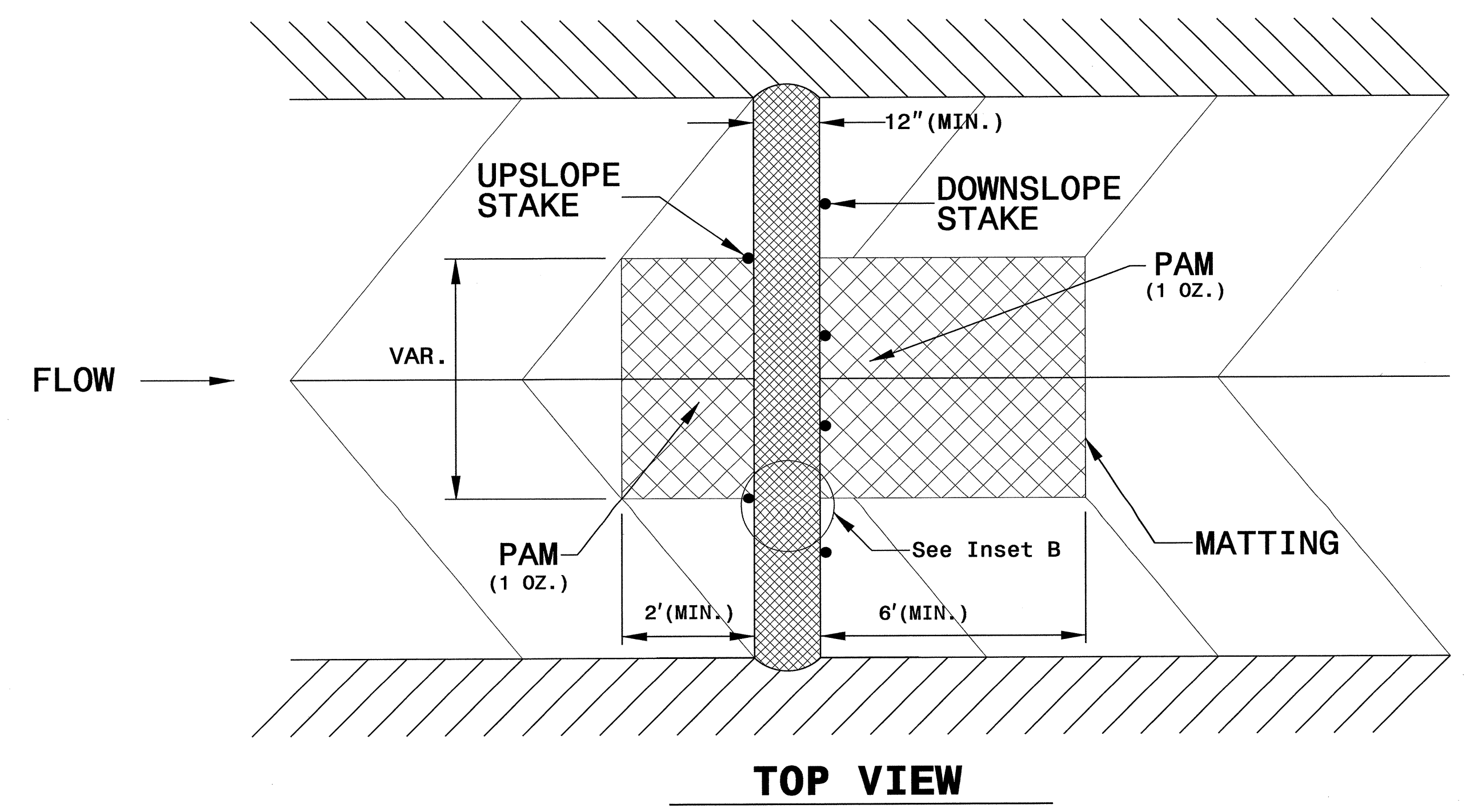
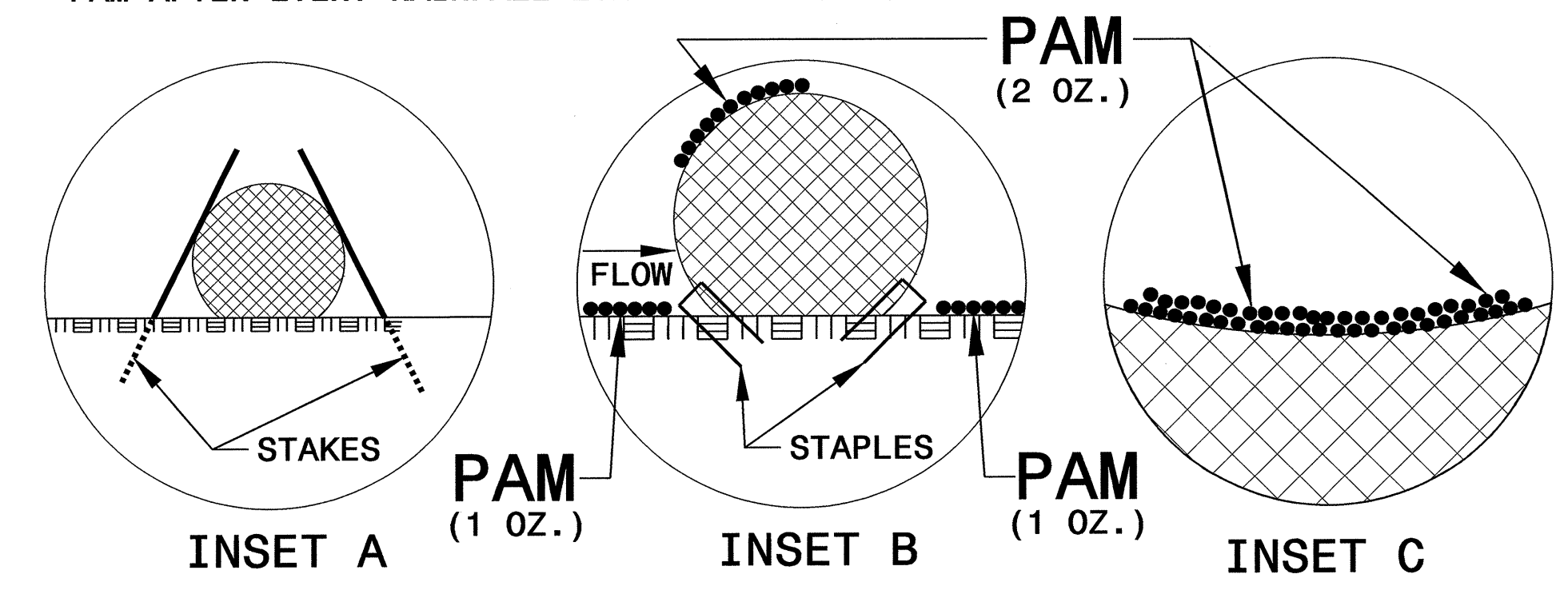
PROJECT REFERENCE NO. U-3423	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



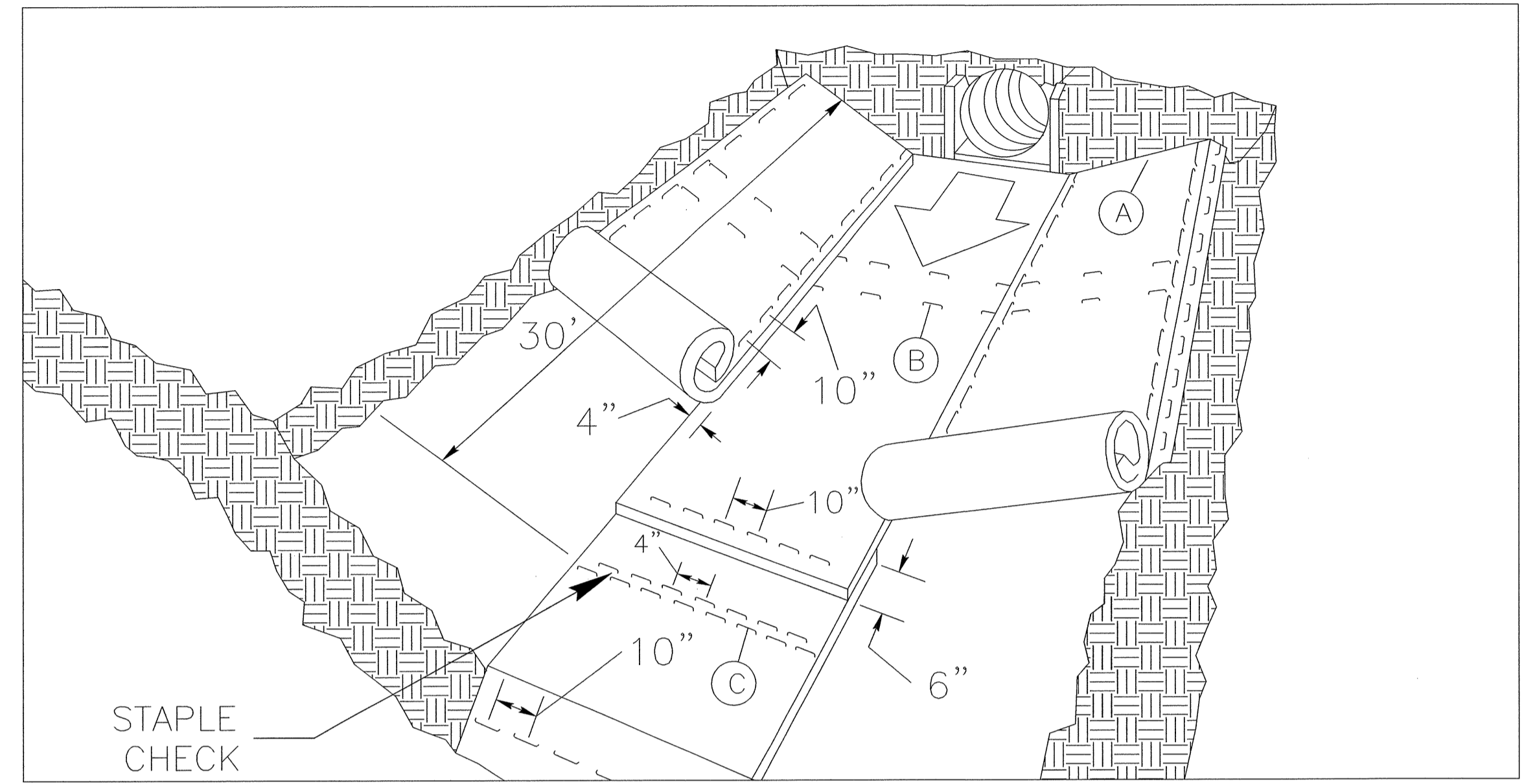
NOTES:

- 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. U-3423	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATTING INSTALLATION DETAIL



MATTING IN DITCHES

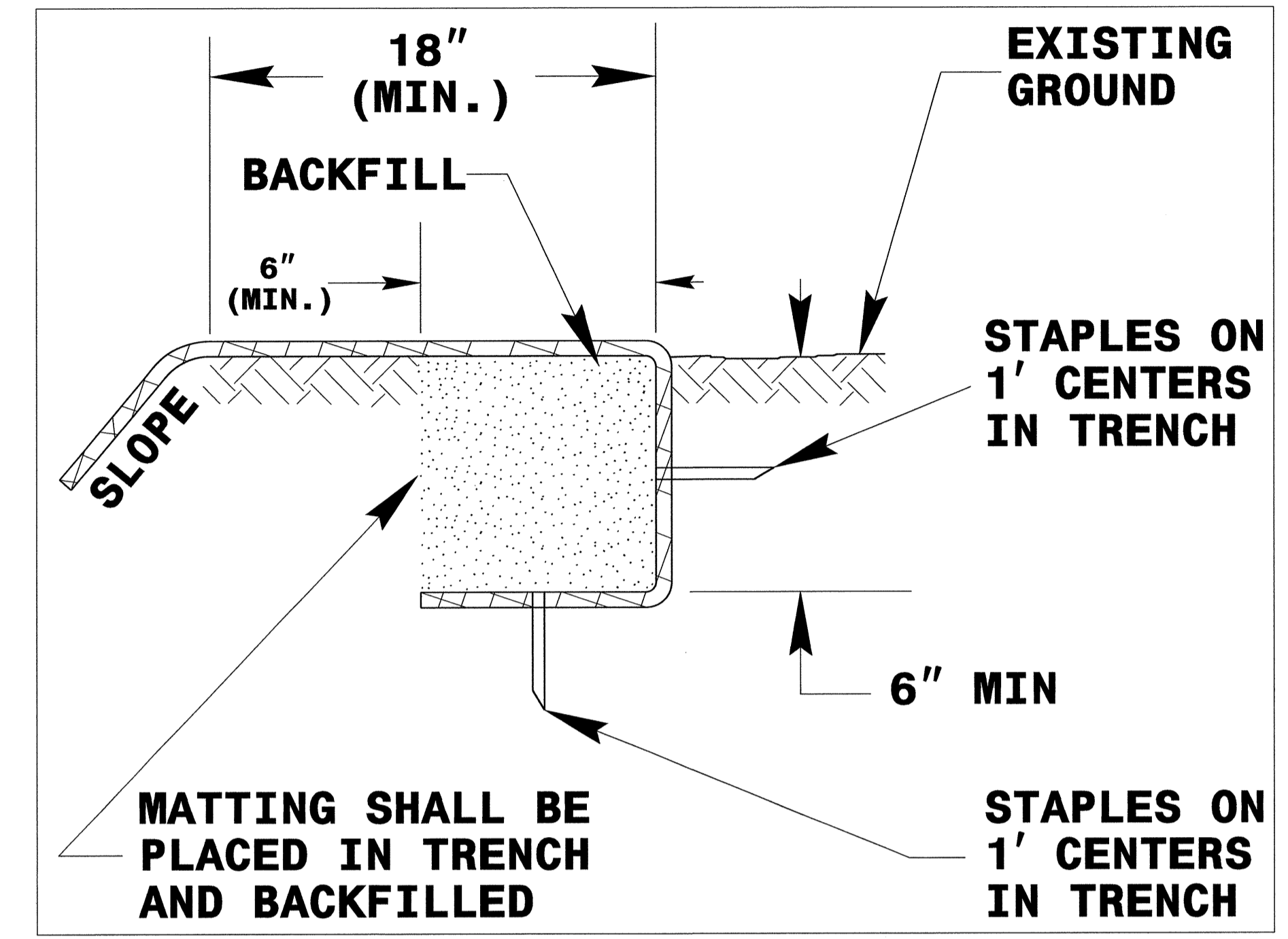
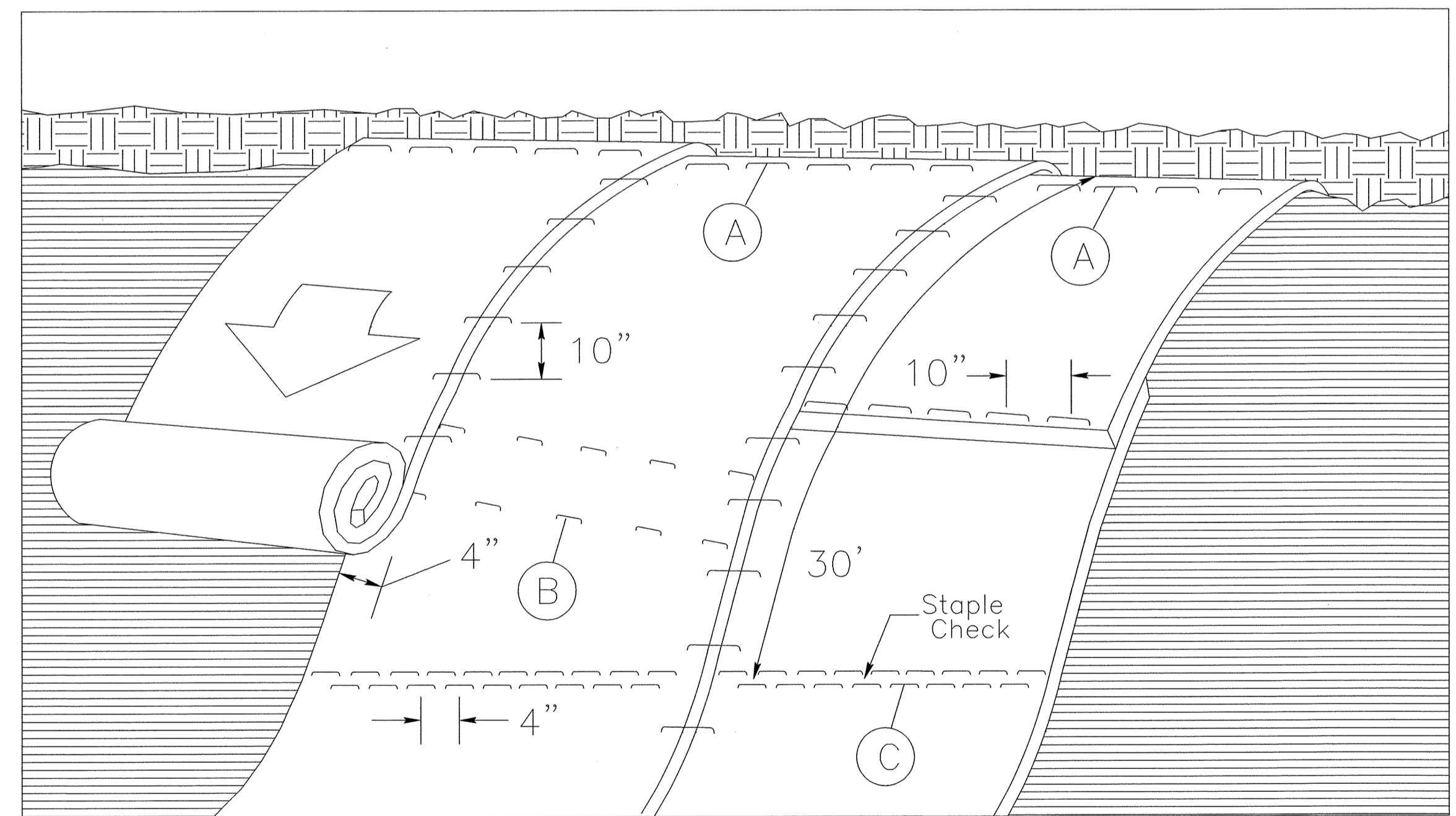


DIAGRAM (A)



MATTING ON SLOPES

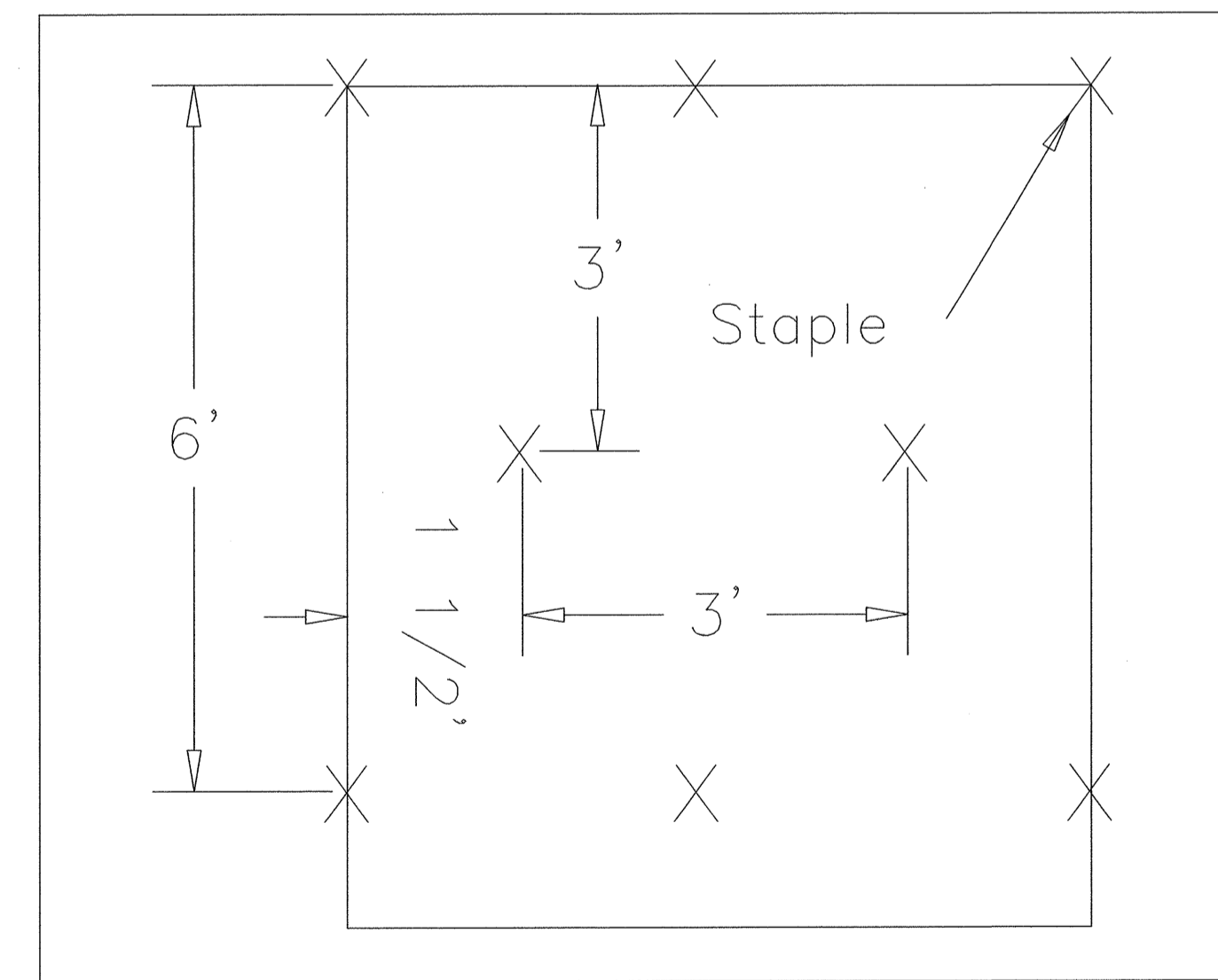


DIAGRAM (B)

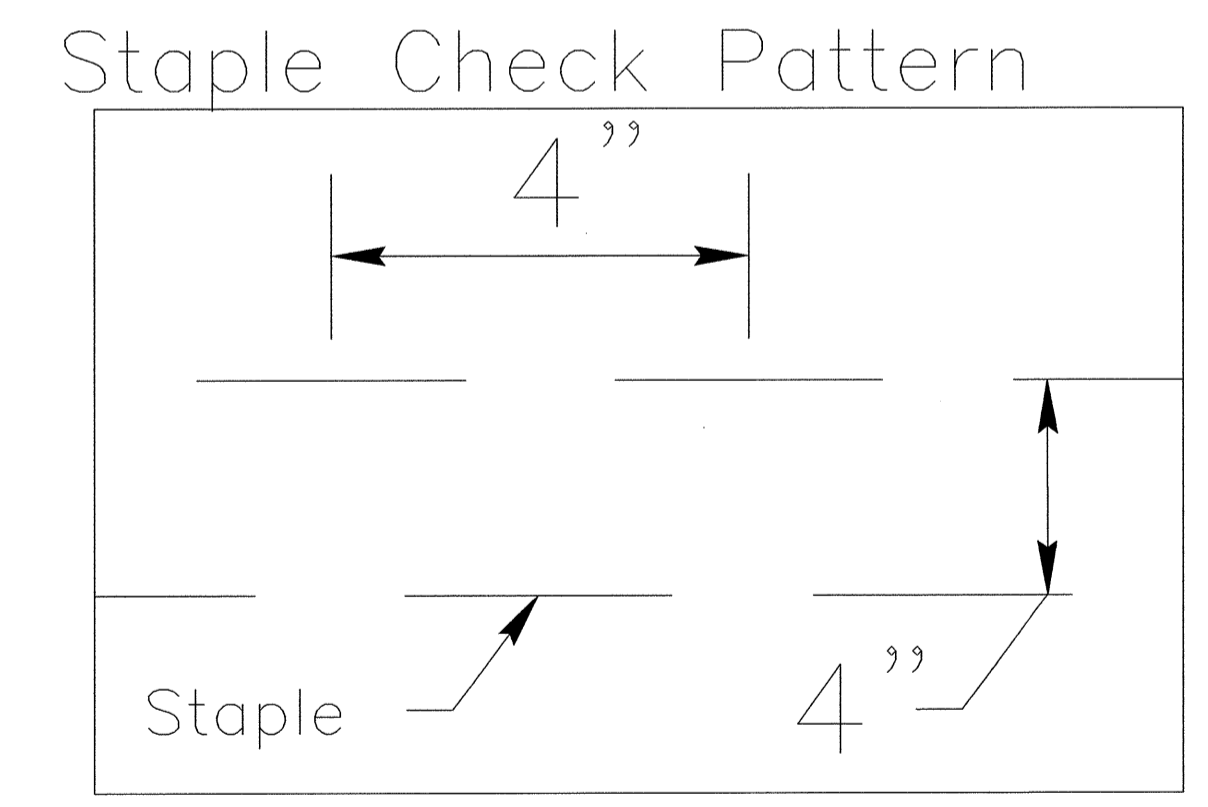


DIAGRAM (C)

NOTES:

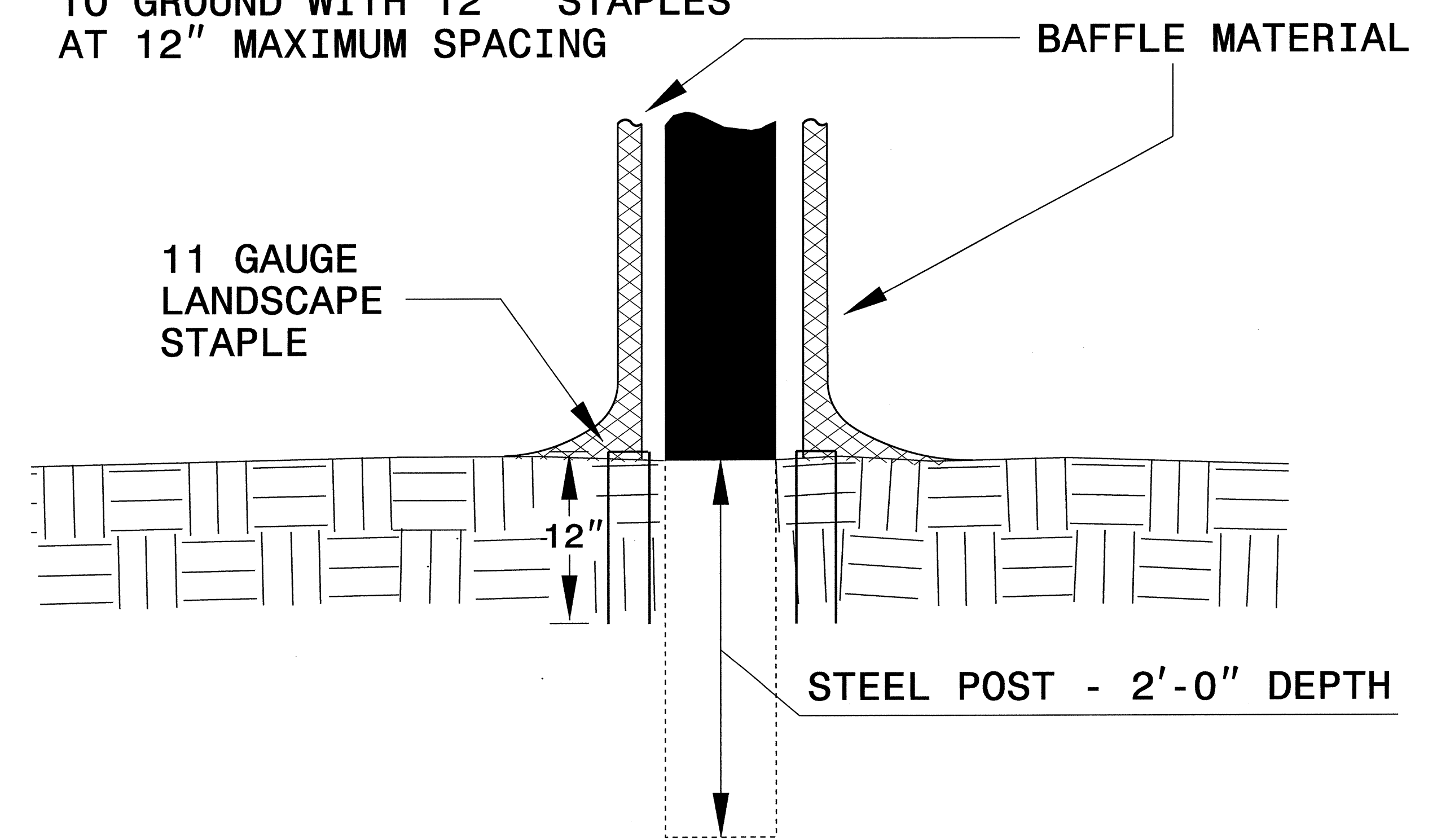
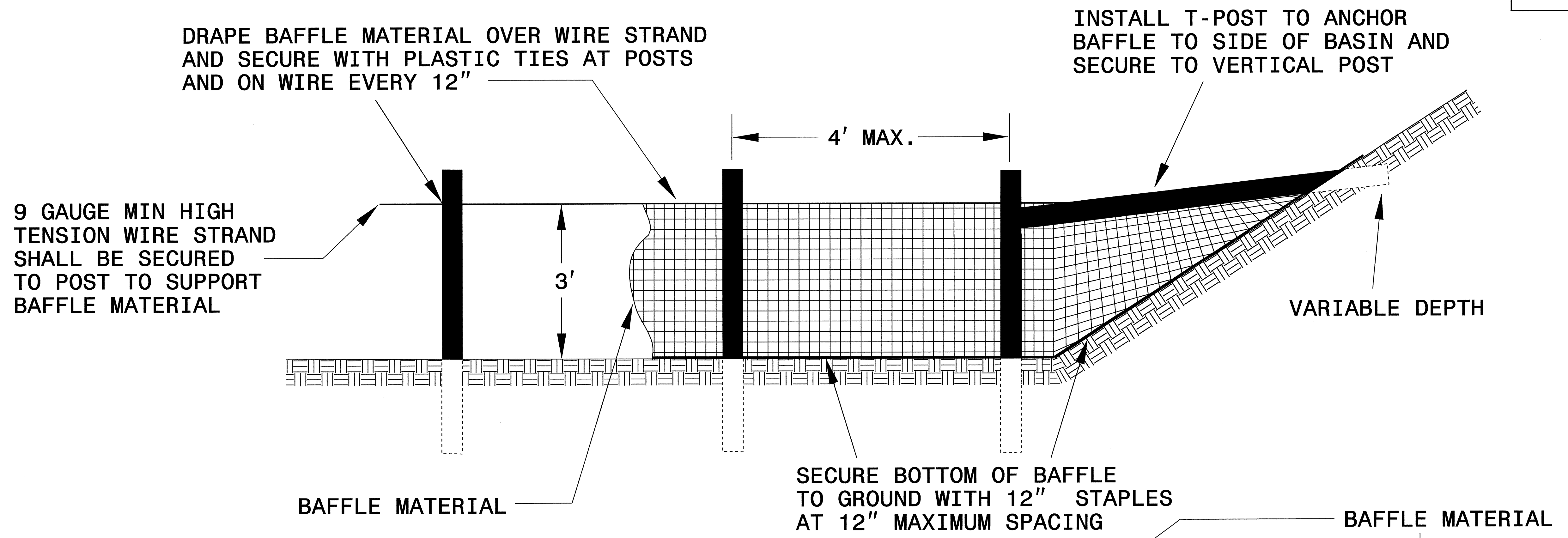
THIS DETAIL APPLIES TO STRAW, EXCELSIOR, AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION.

STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A MINIMUM THROAT WIDTH OF 1 INCH AND NOT LESS THAN 6 INCHES IN LENGTH.

NOT TO SCALE

PROJECT REFERENCE NO. U-3423	SHEET NO. EC-2C
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL



NOTES:

1. INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF $\frac{1}{4}$ THE BASIN LENGTH.

2. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF $\frac{1}{3}$ THE BASIN LENGTH.

3. TOP HEIGHT OF COIR FIBER BAFFLES SHALL NOT BE BELOW BASE OF EMERGENCY SPILLWAY ELEVATION.

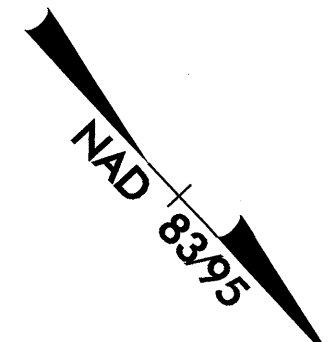
BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 12" LANDSCAPE STAPLES

8/17/99

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

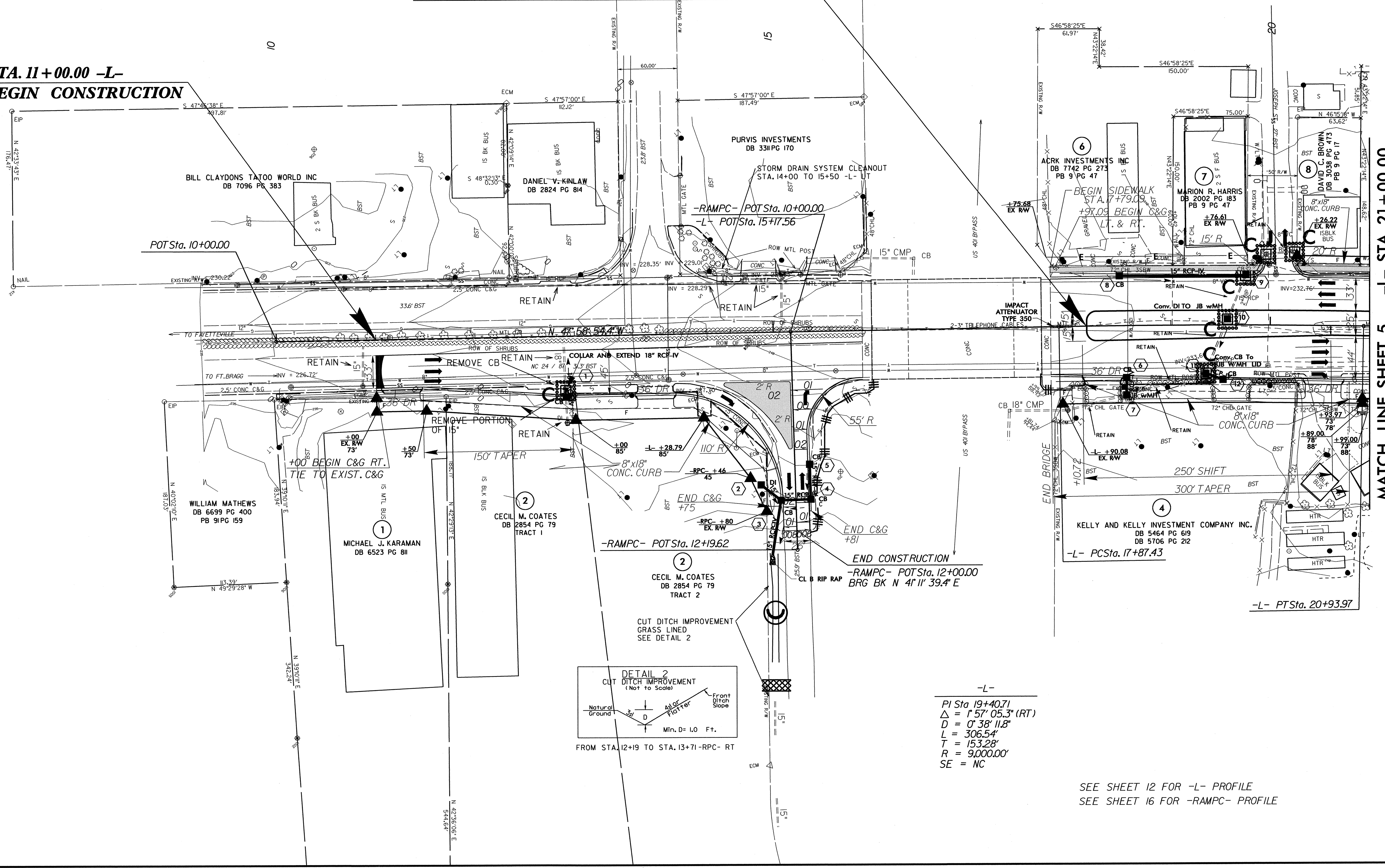
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

PROJECT REFERENCE NO.	SHEET NO.
U-3423	EC-4/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

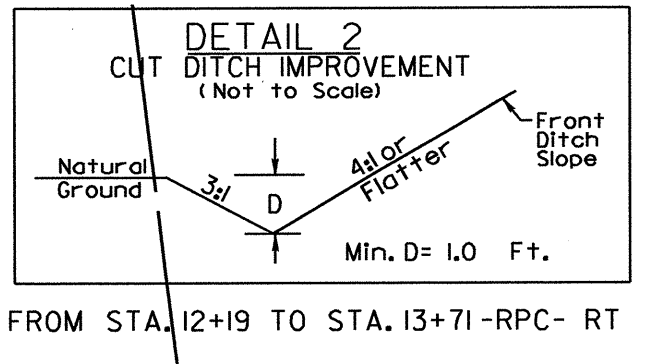


STA. 18+15.00 -L- BEGIN TIP PROJECT U-3423

STA. 11+00.00 -L- BEGIN CONSTRUCTION



MATCH LINE SHEET 5 -L- STA. 21+00.00



-L-
 PI Sta 19+40.71
 $\Delta = 1^{\circ} 57' 05.3''$ (RT)
 $D = 0^{\circ} 38' 11.8''$
 $L = 306.54'$
 $T = 153.28'$
 $R = 9,000.00'$
 SE = NC

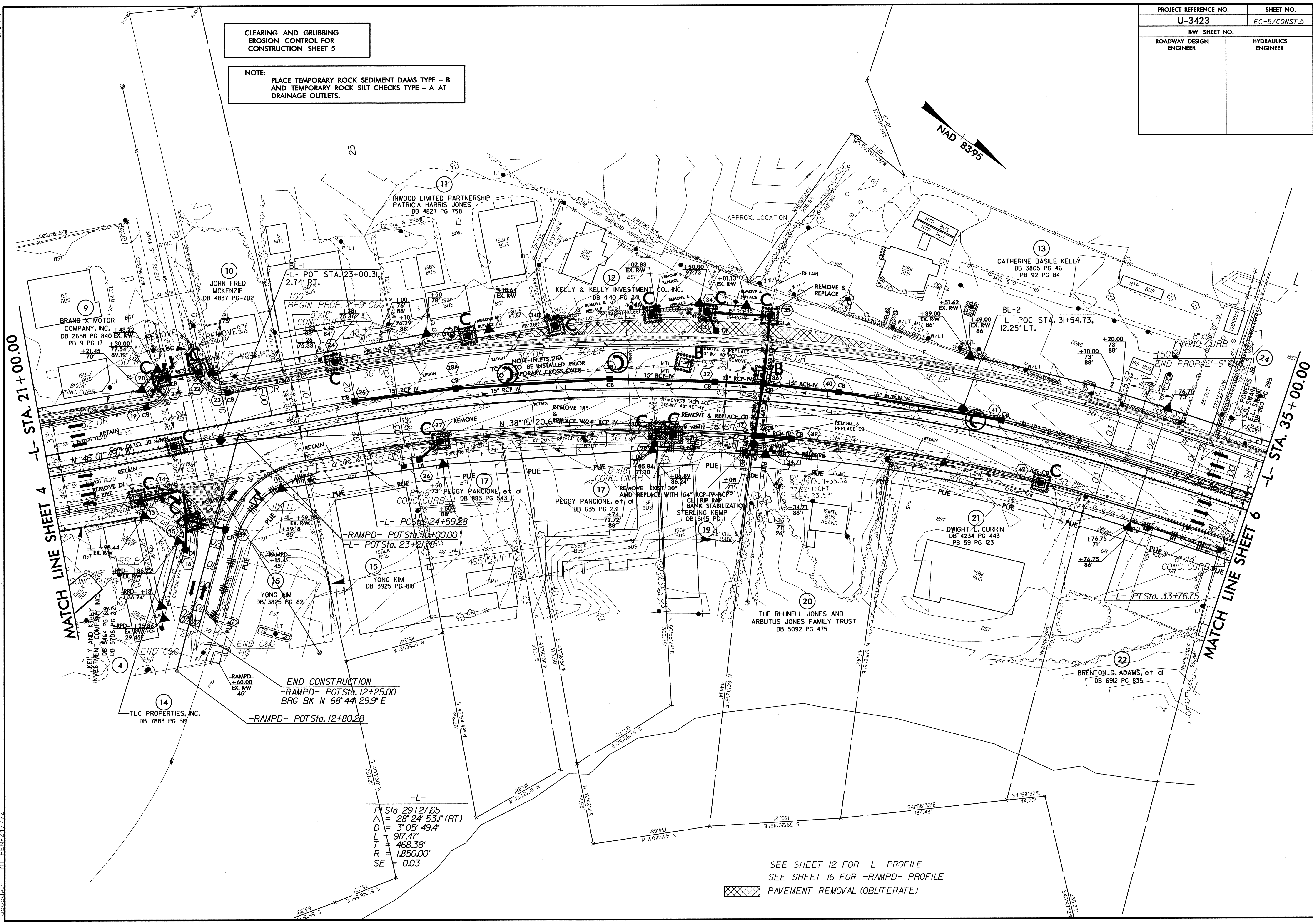
SEE SHEET 12 FOR -L- PROFILE
 SEE SHEET 16 FOR -RAMPC- PROFILE

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 11/23/2009

PROJECT REFERENCE NO.	SHEET NO.
U-3423	EC-5/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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.



8/17/99



MATCH LINE SHEET 4 -L- STA. 21+00.00

MATCH LINE SHEET 6 -L- STA. 35+00.00

-L-
 P Sta 29+27.65
 $\Delta = 28^{\circ} 24' 53.1''$ (RT)
 D = 3' 05' 49.4"
 L = 97.47'
 T = 468.38'
 R = 1,850.00'
 SE = 0.03

SEE SHEET 12 FOR -L- PROFILE
 SEE SHEET 16 FOR -RAMPD- PROFILE
 PAVEMENT REMOVAL (OBLITERATE)

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8/17/99

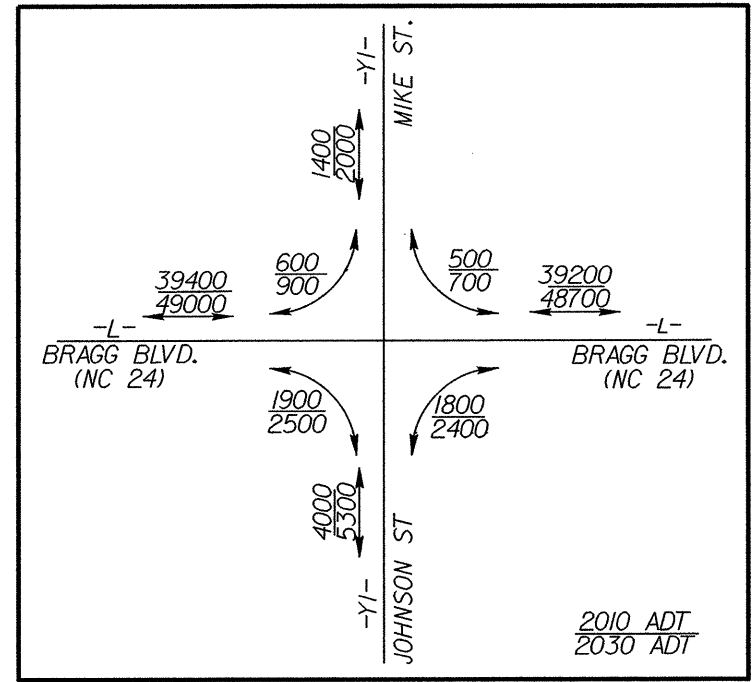
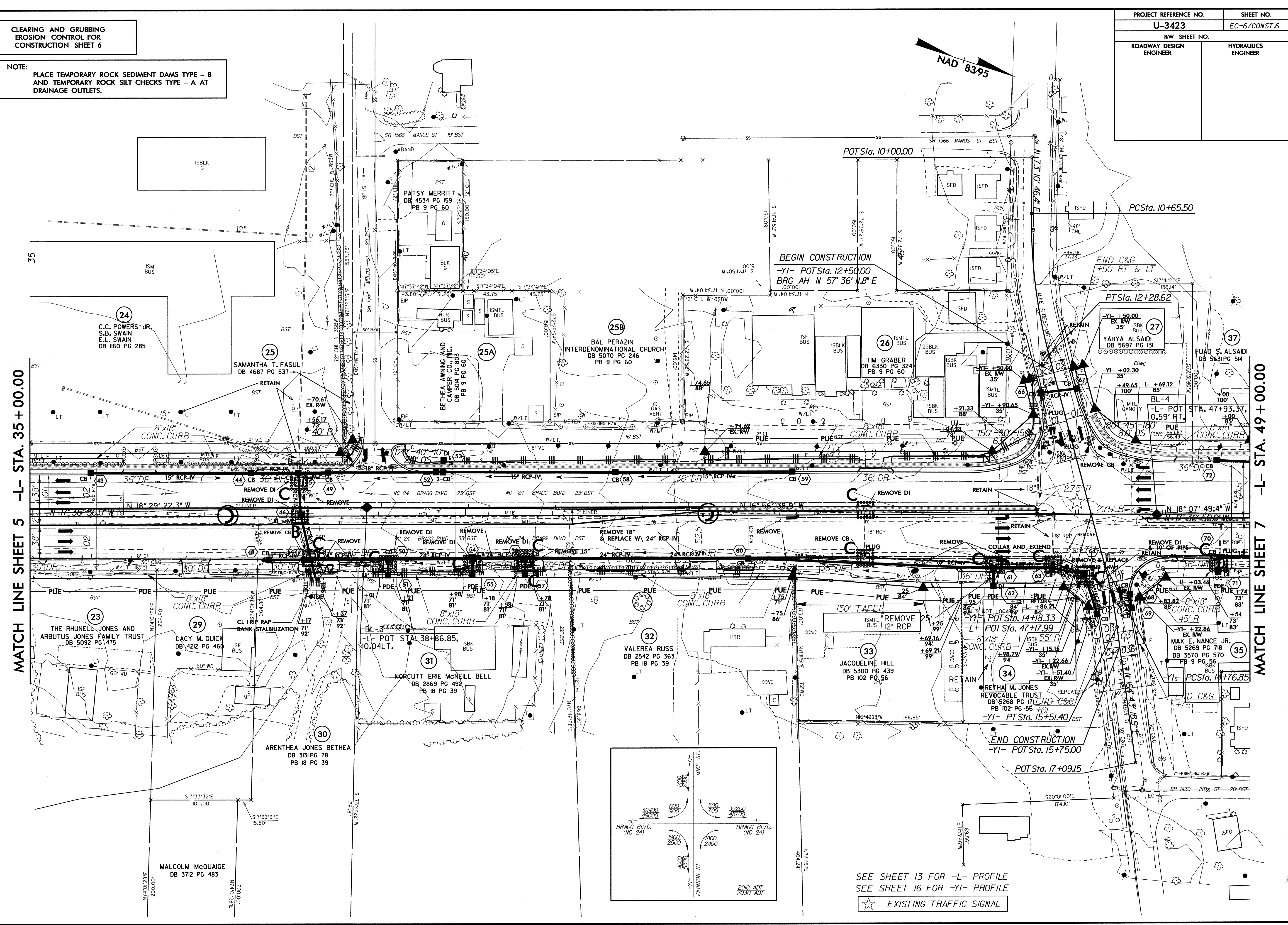
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

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

PROJECT REFERENCE NO.	SHEET NO.
U-3423	EC-6/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCH LINE SHEET 5 -L- STA. 35+00.00

MATCH LINE SHEET 7 -L- STA. 49+00.00



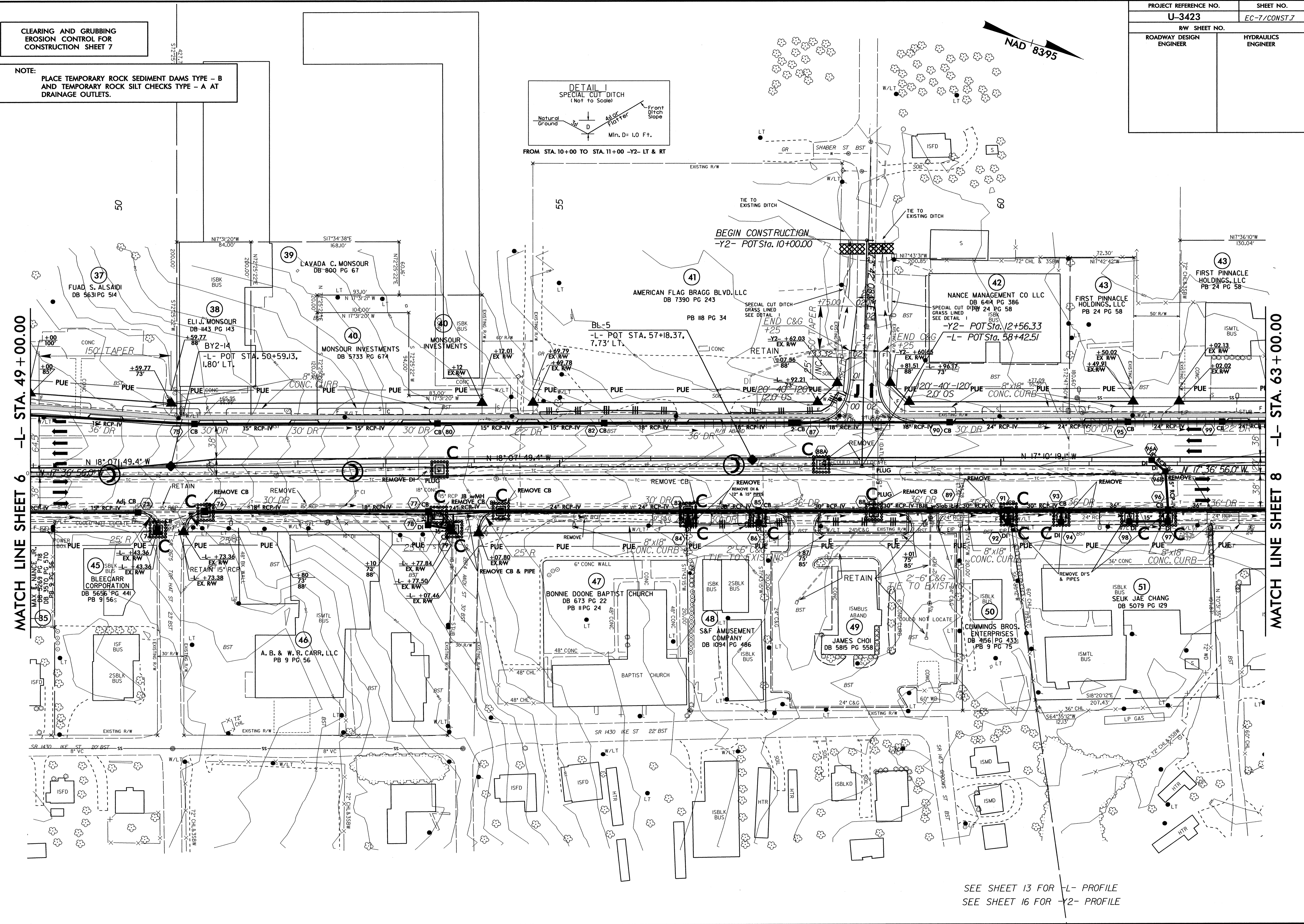
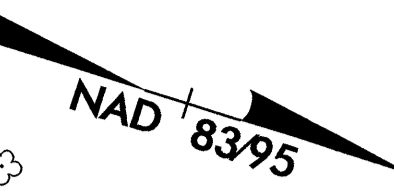
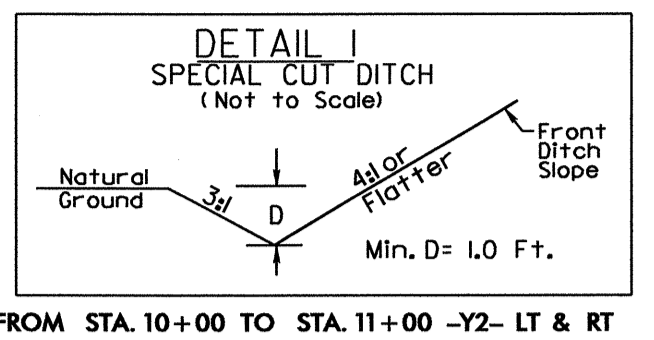
SEE SHEET 13 FOR -L- PROFILE
SEE SHEET 16 FOR -YI- PROFILE
★ EXISTING TRAFFIC SIGNAL

02-MAR-2010 09:10
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AP:RENW27770

PROJECT REFERENCE NO.	SHEET NO.
U-3423	EC-7/CONST.7
R/W 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.



MATCH LINE SHEET 6 -L- STA. 49+00.00

MATCH LINE SHEET 8 -L- STA. 63+00.00

SEE SHEET 13 FOR -L- PROFILE
SEE SHEET 16 FOR -Y2- PROFILE

8/17/99

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MBSE&THS

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 8

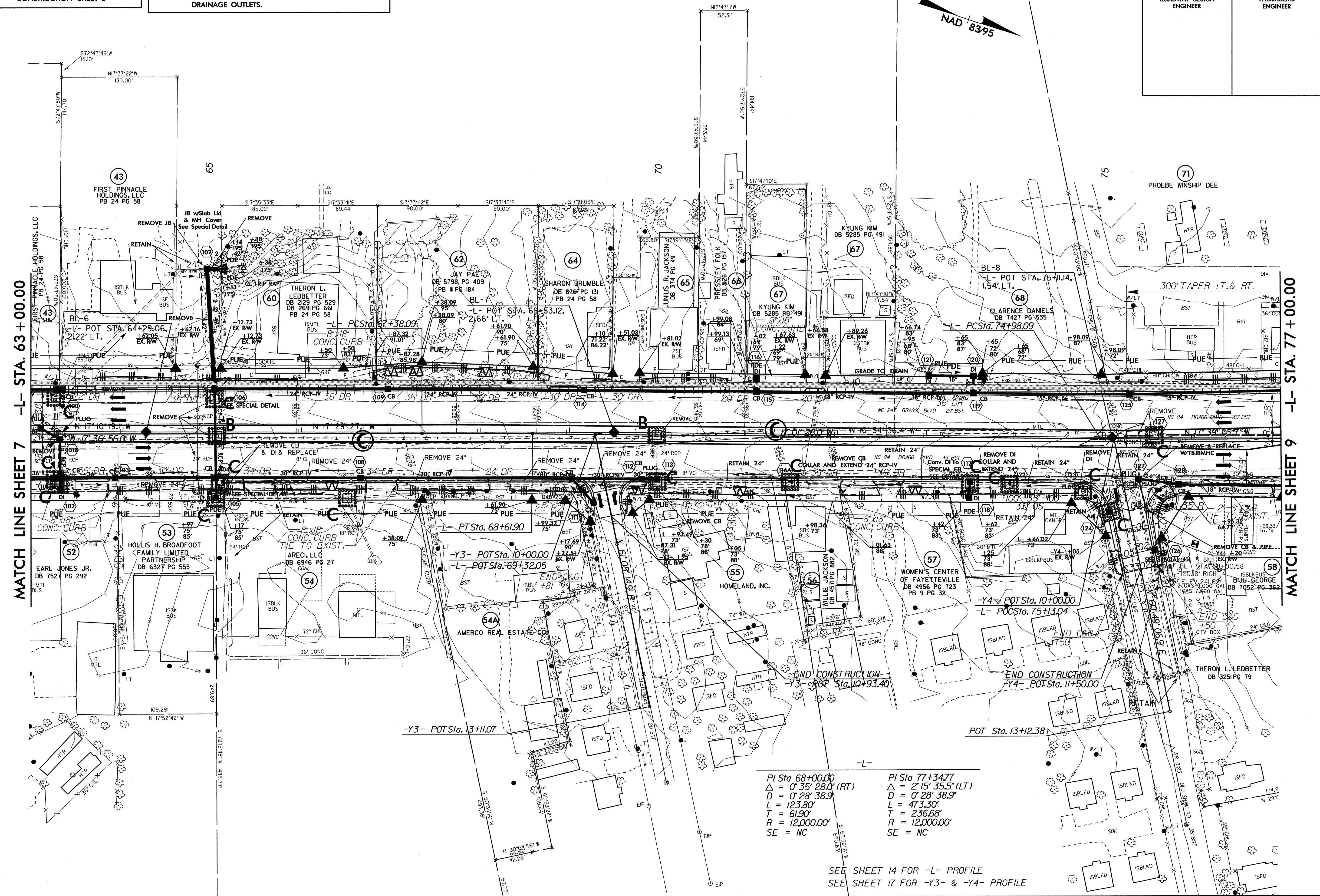
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

PROJECT REFERENCE NO.		SHEET NO.	
U-3423		EC-8/CONST.8	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
RW SHEET NO.		RW SHEET NO.	



MATCH LINE SHEET 7 -L- STA. 63 + 00.00

MATCH LINE SHEET 9 -L- STA. 77 + 00.00



-L-	-L-
PI Sta 68+00.00	PI Sta 77+34.77
$\Delta = 0' 35' 28.0''$ (RT)	$\Delta = 2' 15' 35.5''$ (LT)
$D = 0' 28' 38.9''$	$D = 0' 28' 38.9''$
$L = 123.80'$	$L = 47.330'$
$T = 61.90'$	$T = 236.68'$
$R = 12,000.00'$	$R = 12,000.00'$
SE = NC	SE = NC

SEE SHEET 14 FOR -L- PROFILE
SEE SHEET 17 FOR -Y3- & -Y4- PROFILE

8/17/2010

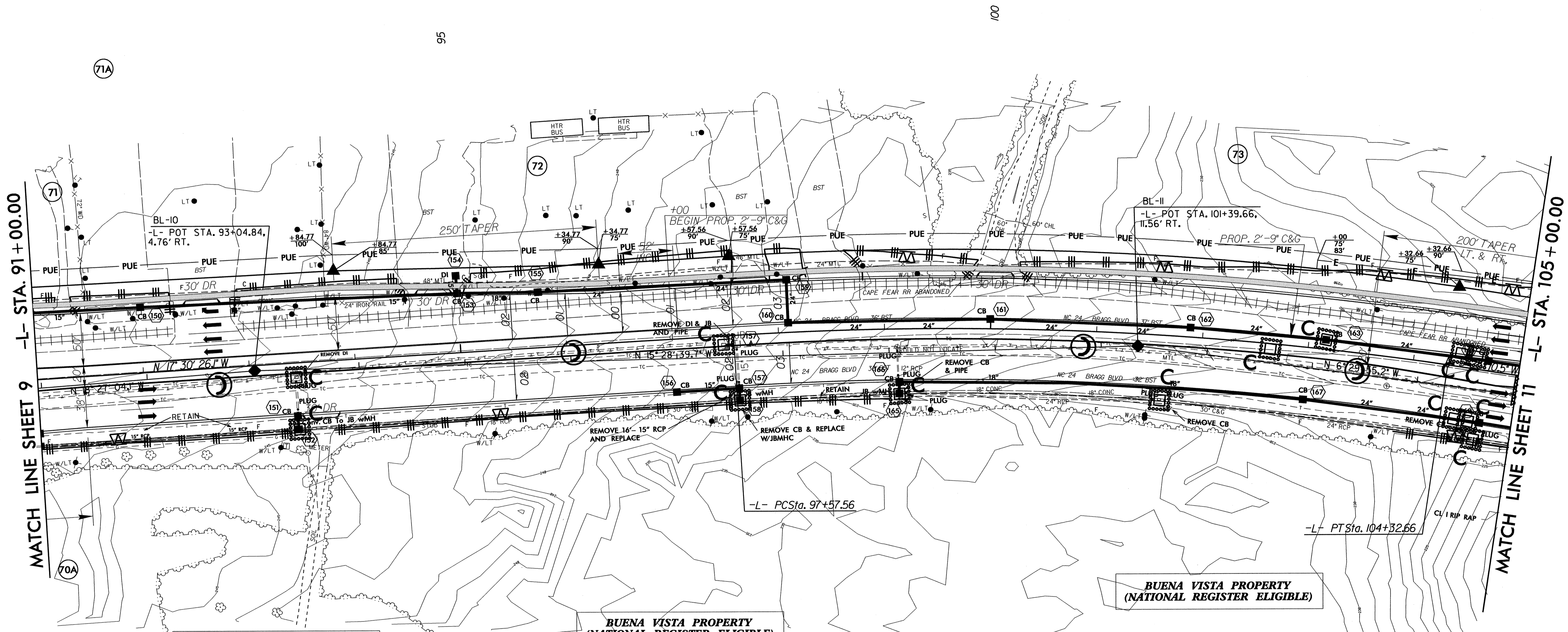
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R:\Projects\3423-EC-esh8.dgn

8/17/99

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.

PROJECT REFERENCE NO. U-3423	SHEET NO. EC-10/CONST.10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCH LINE SHEET 9 -L- STA. 91+00.00

MATCH LINE SHEET 11 -L- STA. 105+00.00

**BUENA VISTA PROPERTY
(NATIONAL REGISTER ELIGIBLE)**

**BUENA VISTA PROPERTY
(NATIONAL REGISTER ELIGIBLE)**

**BUENA VISTA PROPERTY
(NATIONAL REGISTER ELIGIBLE)**

-L-
 PI Sta 100+96.37
 $\Delta = 12^{\circ} 05' 15.5" (RT)$
 $D = 1^{\circ} 47' 25.8"$
 $L = 675.10'$
 $T = 338.81'$
 $R = 3,200.00'$
 SE = SEE PLANS

SEE SHEET 15 FOR -L- PROFILE

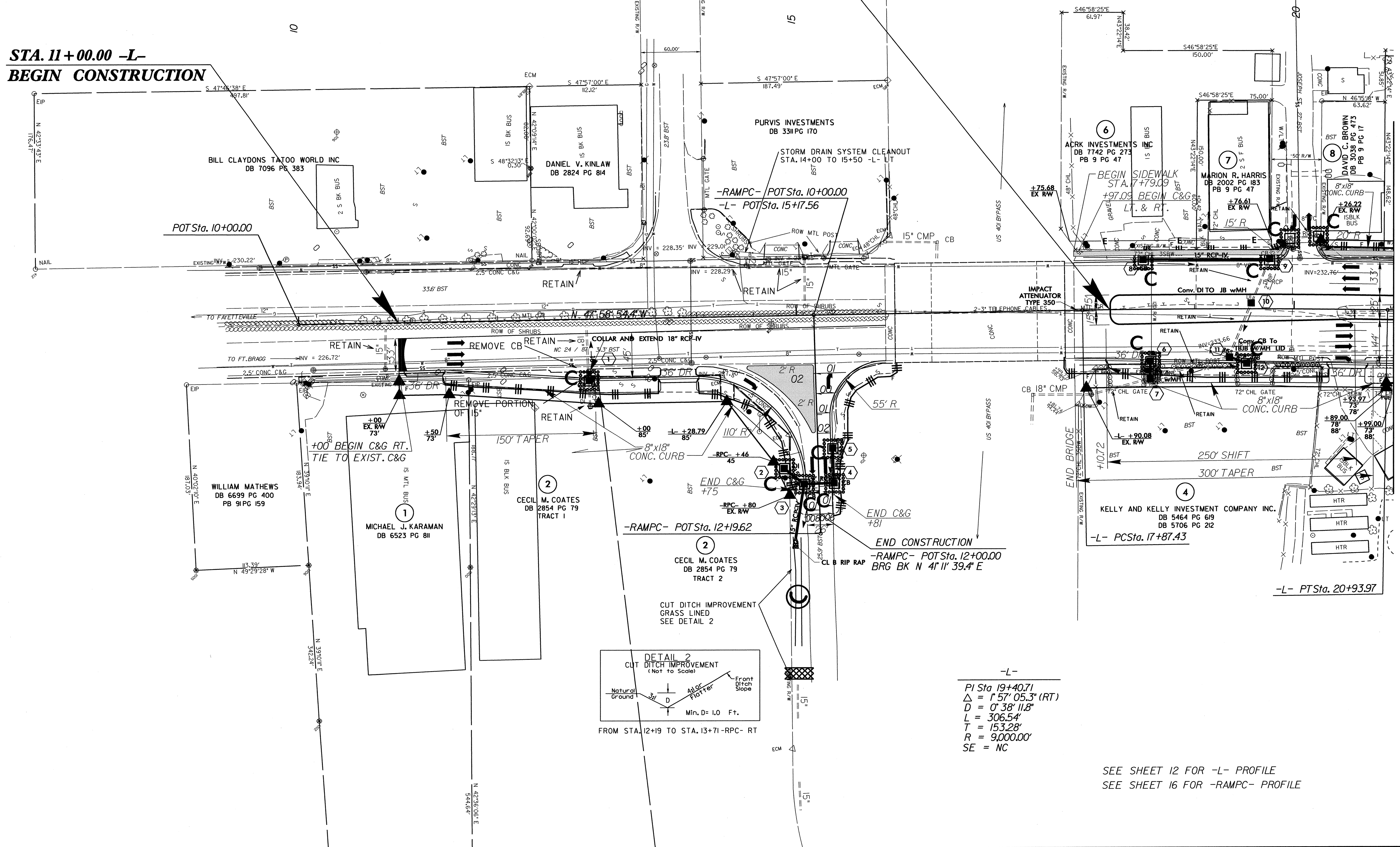
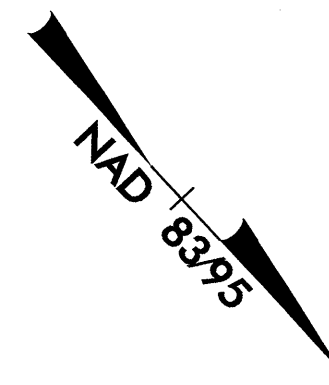
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1/24/2010 10:58 AM RENWZ

8/17/99

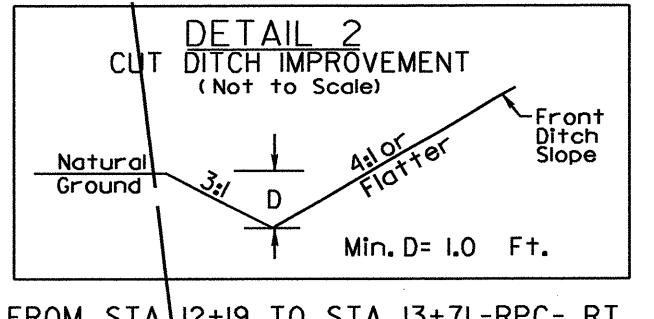
PROJECT REFERENCE NO.	SHEET NO.
U-3423	EC-12/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

STA. 18+15.00 -L- BEGIN TIP PROJECT U-3423

STA. 11+00.00 -L- BEGIN CONSTRUCTION



MATCH LINE SHEET 5 -L- STA. 21+00.00



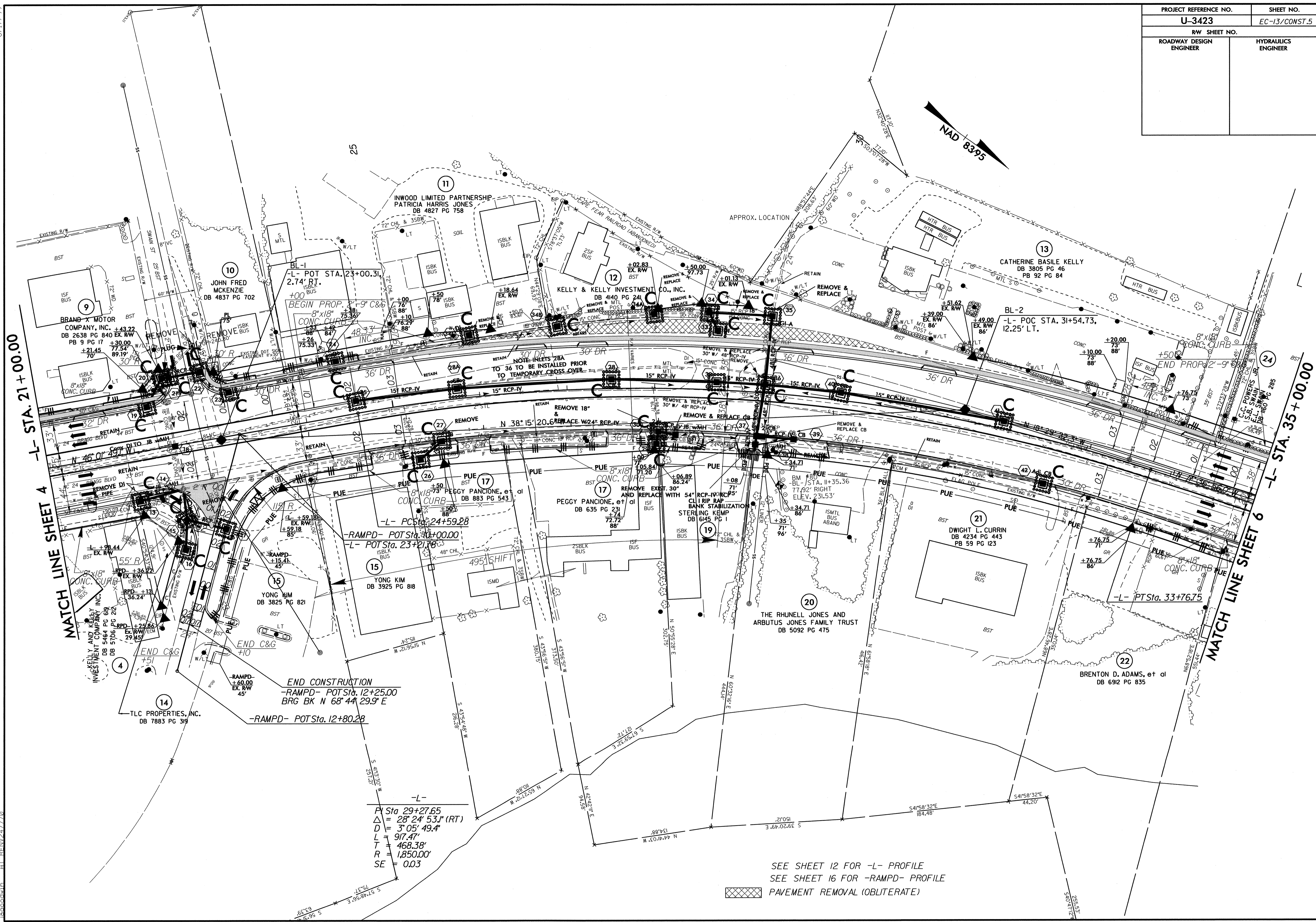
-L-
 PI Sta 19+40.71
 $\Delta = 1' 57'' 05.3'' (RT)$
 $D = 0' 38'' 11.8''$
 $L = 306.54'$
 $T = 153.28'$
 $R = 9,000.00'$
 $SE = NC$

SEE SHEET 12 FOR -L- PROFILE
 SEE SHEET 16 FOR -RAMP- PROFILE

02-MAR-2010 09:08 Design\3423_EC_psh4.dgn
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PROJECT REFERENCE NO.	SHEET NO.
U-3423	EC-13/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

8/17/99



MATCH LINE SHEET 4 -L- STA. 21+00.00

MATCH LINE SHEET 6 -L- STA. 35+00.00

-L-
 P Sta 29+27.65
 $\Delta = 28^{\circ} 24' 53.1''$ (RT)
 $D = 3^{\circ} 05' 49.4''$
 $L = 917.47'$
 $T = 468.38'$
 $R = 1,850.00'$
 $SE = 0.03$

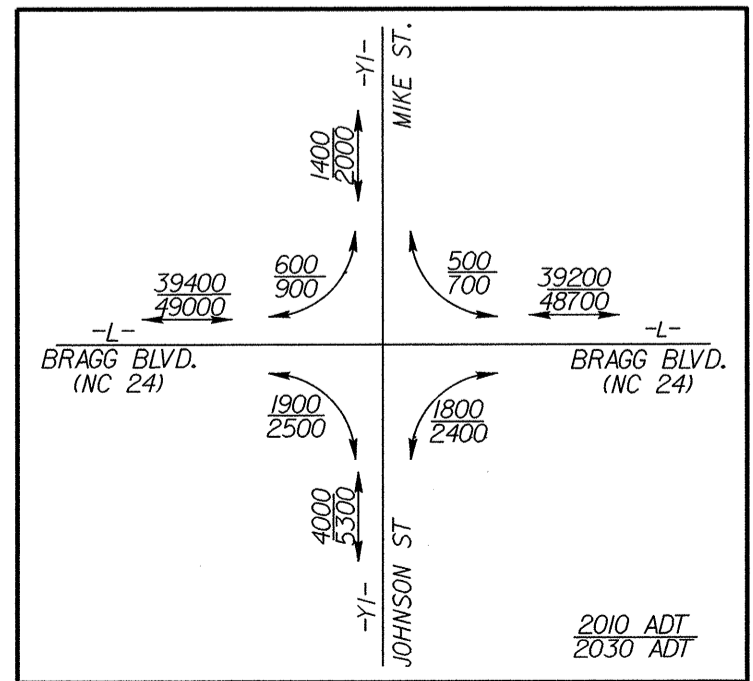
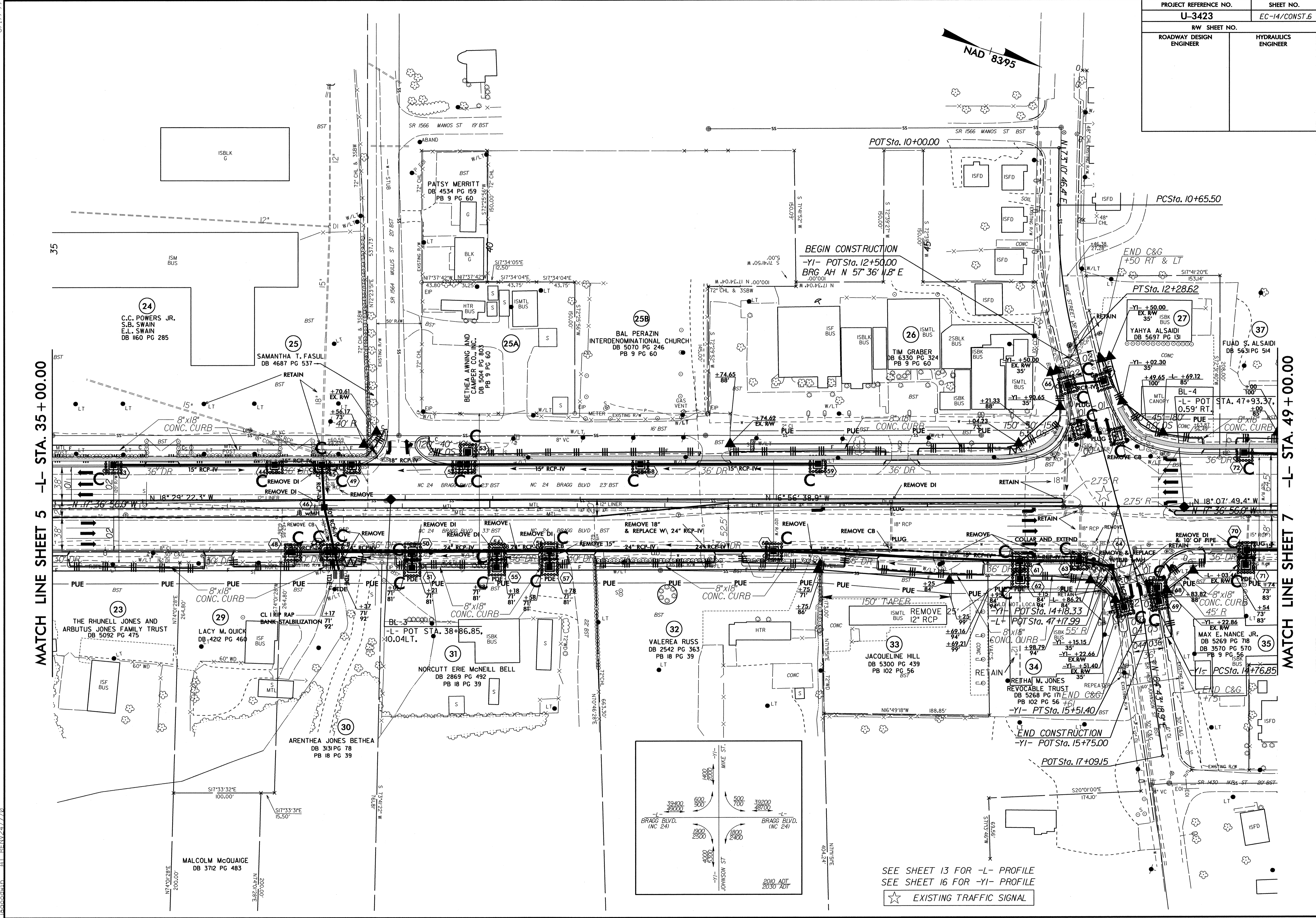
SEE SHEET 12 FOR -L- PROFILE
 SEE SHEET 16 FOR -RAMPD- PROFILE
 [Hatched Box] PAVEMENT REMOVAL (OBLITERATE)

02-MAR-2010 09:10
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PROJECT REFERENCE NO.	SHEET NO.
U-3423	EC-14/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCH LINE SHEET 5 -L- STA. 35+00.00

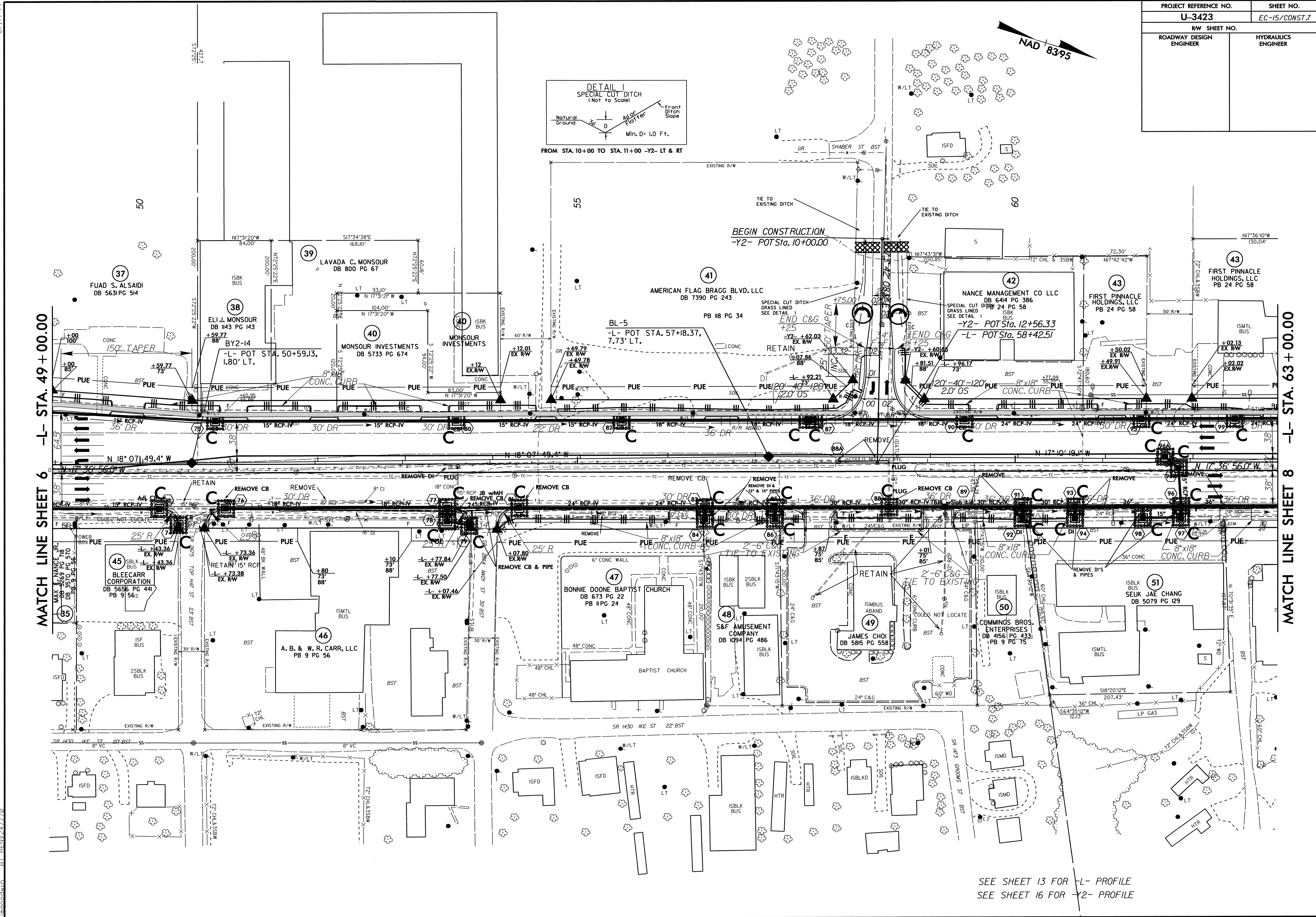
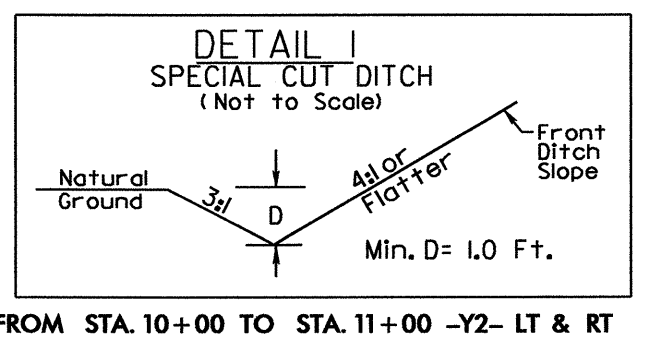
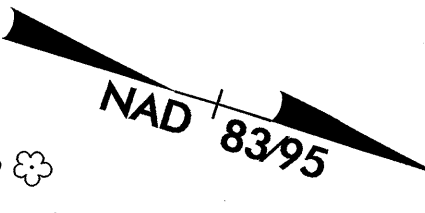
MATCH LINE SHEET 7 -L- STA. 49+00.00



SEE SHEET 13 FOR -L- PROFILE
 SEE SHEET 16 FOR -YI- PROFILE
 ☆ EXISTING TRAFFIC SIGNAL

02-MAR-2010 09:41
 RK-Envr.com\m\p\3423-EC-pah6.dgn
 AT:RENWZ7770

PROJECT REFERENCE NO.		SHEET NO.	
U-3423		EC-15/CONST.7	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



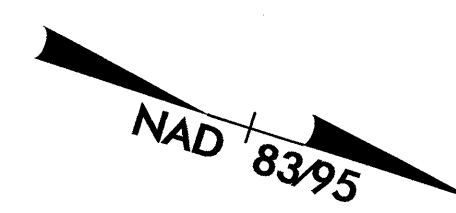
MATCH LINE SHEET 6 -L- STA. 49+00.00

MATCH LINE SHEET 8 -L- STA. 63+00.00

SEE SHEET 13 FOR -L- PROFILE
SEE SHEET 16 FOR -Y2- PROFILE

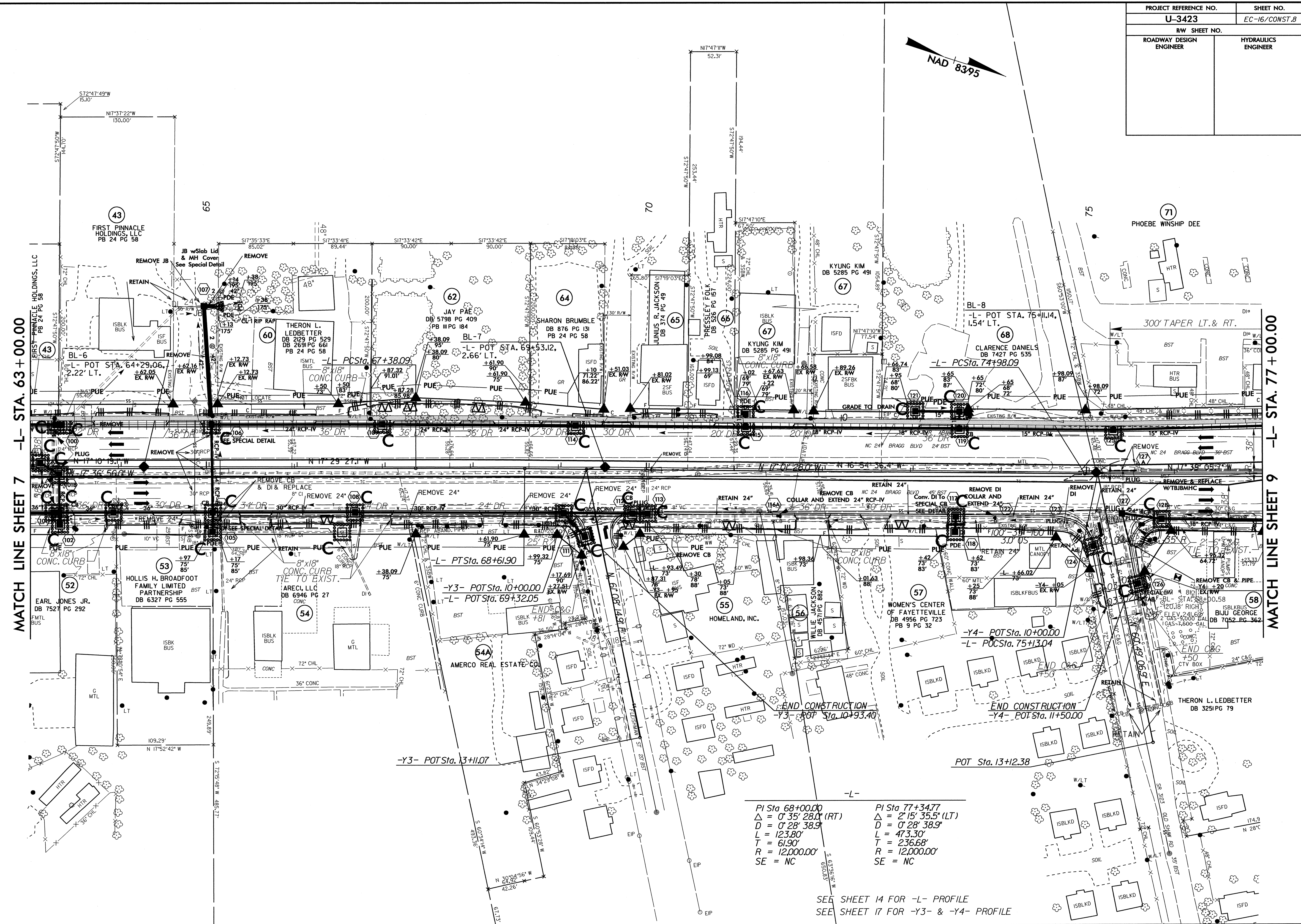
8/17/09
03-MAR-2010 09:21
C:\Program Files\Autodesk\AutoCAD 2010\Projects\U-3423-EC-15\psh7.dgn
PLT: REN217770

PROJECT REFERENCE NO.		SHEET NO.	
U-3423		EC-16/CONST.8	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



MATCH LINE SHEET 7 -L- STA. 63 + 00.00

MATCH LINE SHEET 9 -L- STA. 77 + 00.00



-L-
 PI Sta 68+00.00
 $\Delta = 0' 35' 28.0''$ (RT)
 $D = 0' 28' 38.9''$
 $L = 123.80'$
 $T = 61.90'$
 $R = 12,000.00'$
 SE = NC

-L-
 PI Sta 77+34.77
 $\Delta = 2' 15' 35.5''$ (LT)
 $D = 0' 28' 38.9''$
 $L = 47.330'$
 $T = 236.68'$
 $R = 12,000.00'$
 SE = NC

SEE SHEET 14 FOR -L- PROFILE
 SEE SHEET 17 FOR -Y3- & -Y4- PROFILE

8/17/99

02-MAR-2010 09:23
 R:\Environment\3423-EC_psh8.dgn
 locadad AT REV237770

PROJECT REFERENCE NO.	SHEET NO.
U-3423	EC-17/CONST.9
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

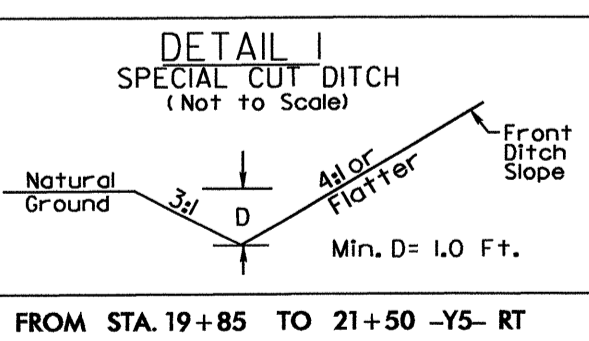


MATCH LINE SHEET 8 -L- STA. 77+00.00

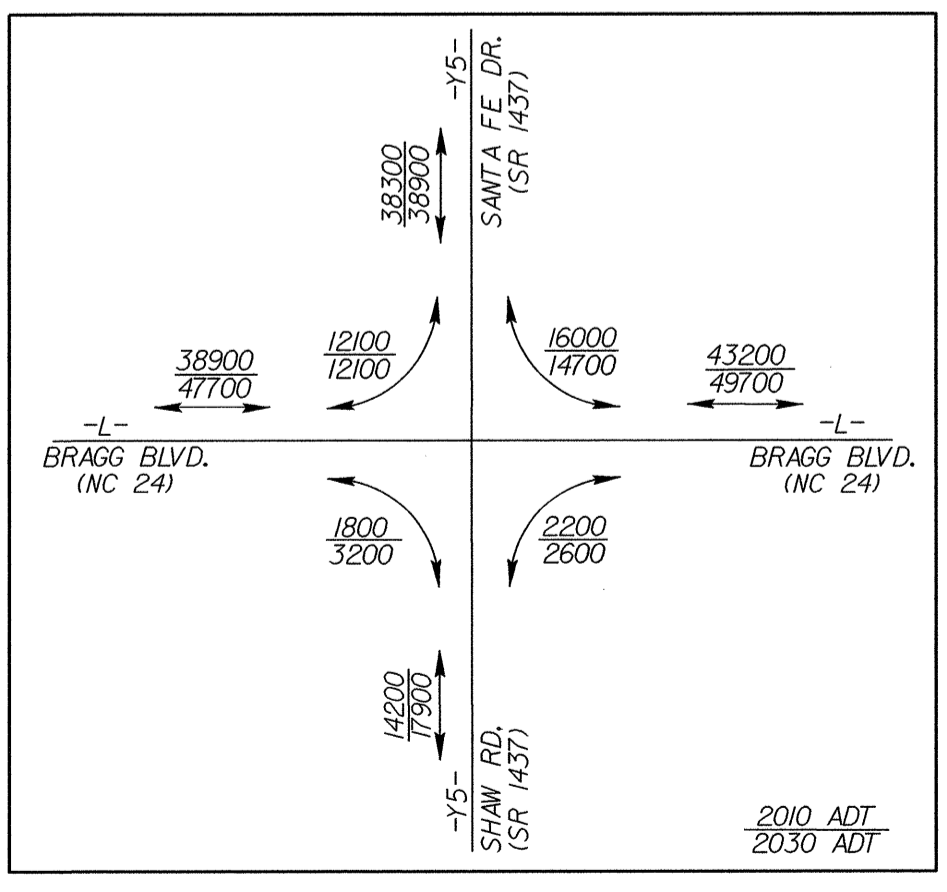
MATCH LINE SHEET 10 -L- STA. 91+00.00

-L-
 PI Sta 77+34.77 PI Sta 85+00.52
 $\Delta = 2' 15" 35.5" (LT)$ $\Delta = 1' 46" 37.4" (RT)$
 $D = 0' 28" 38.9"$ $D = 0' 28" 38.9"$
 $L = 473.30'$ $L = 372.19'$
 $T = 236.68'$ $T = 186.11'$
 $R = 12,000.00'$ $R = 12,000.00'$
 SE = NC SE = NC

-Y5-
 PI Sta 16+32.33 PI Sta 20+51.39
 $\Delta = 0' 51" 42.2" (LT)$ $\Delta = 15' 21" 51.5" (RT)$
 $D = 0' 42" 58.3"$ $D = 3' 16" 26.6"$
 $L = 120.32'$ $L = 469.28'$
 $T = 60.16'$ $T = 236.05'$
 $R = 8,000.00'$ $R = 1,750.00'$
 SE = SEE PLANS



FROM STA. 19+85 TO 21+50 -Y5- RT



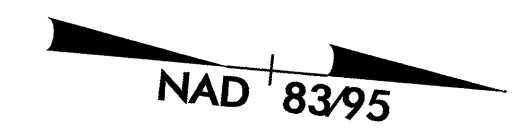
SEE SHEET 14 FOR -L- PROFILE
 SEE SHEET 17 FOR -Y5- PROFILE



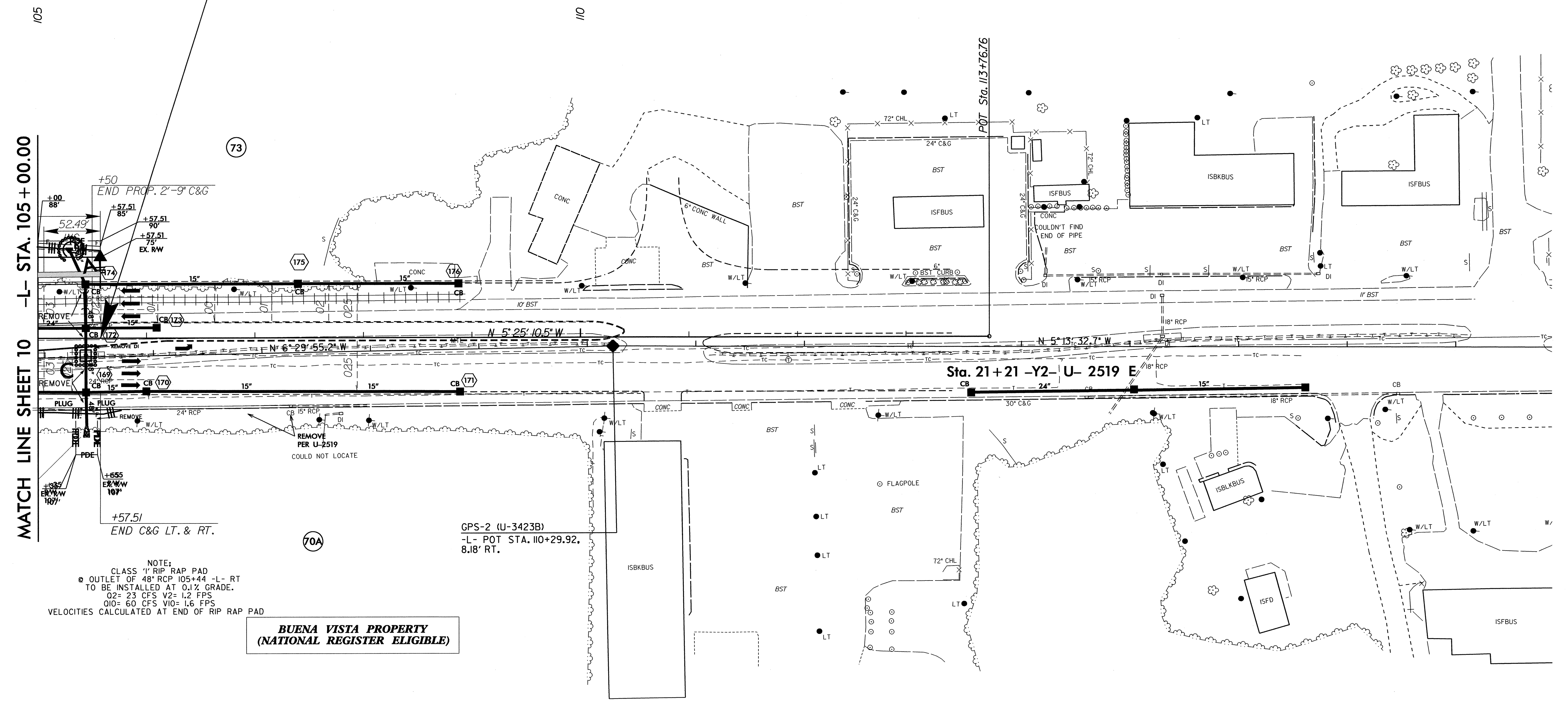
8/17/09

92-MAR-2010 09:25 R:\env\com\ec\3423\EC-psh9.dgn

PROJECT REFERENCE NO.	SHEET NO.
U-3423	EC-19/CONST.II
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



STA. 105+57.51 -L- END TIP PROJECT U-3423



MATCH LINE SHEET 10 -L- STA. 105+00.00

+50
END PROP. 2'-9" C&G
52.49'
88'
+57.51
90'
+57.51
75'
EX. RW

+555
EX. RW
107'
+57.51
END C&G LT. & RT.

NOTE:
CLASS '1' RIP RAP PAD
OUTLET OF 48" RCP 105+44 -L- RT
TO BE INSTALLED AT 0.1% GRADE.
Q2= 23 CFS V2= 1.2 FPS
Q10= 60 CFS V10= 1.6 FPS
VELOCITIES CALCULATED AT END OF RIP RAP PAD

**BUENA VISTA PROPERTY
(NATIONAL REGISTER ELIGIBLE)**

GPS-2 (U-3423B)
-L- POT STA. 110+29.92,
8.18' RT.

Sta. 21+21 -Y2- U- 2519 E

POT Sta. 113+76.76

SEE SHEET 15 FOR -L- PROFILE

8/17/99

R:\MAR-2010_09\28\Drawings\U-3423-EC-psht11.dgn
LAOCD\JLD