

TIP PROJECT: U-3621B

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

NASH COUNTY

**LOCATION: SR 1604 (HUNTER HILL RD) IN ROCKY MOUNT FROM
SR 1616 (COUNTRY CLUB RD) TO NC 43/48 (BENVENUE RD)**

**TYPE OF WORK: GRADING, WIDENING, PAVING, DRAINAGE,
STRUCTURES, SIGNALS AND GUARDRAIL.**

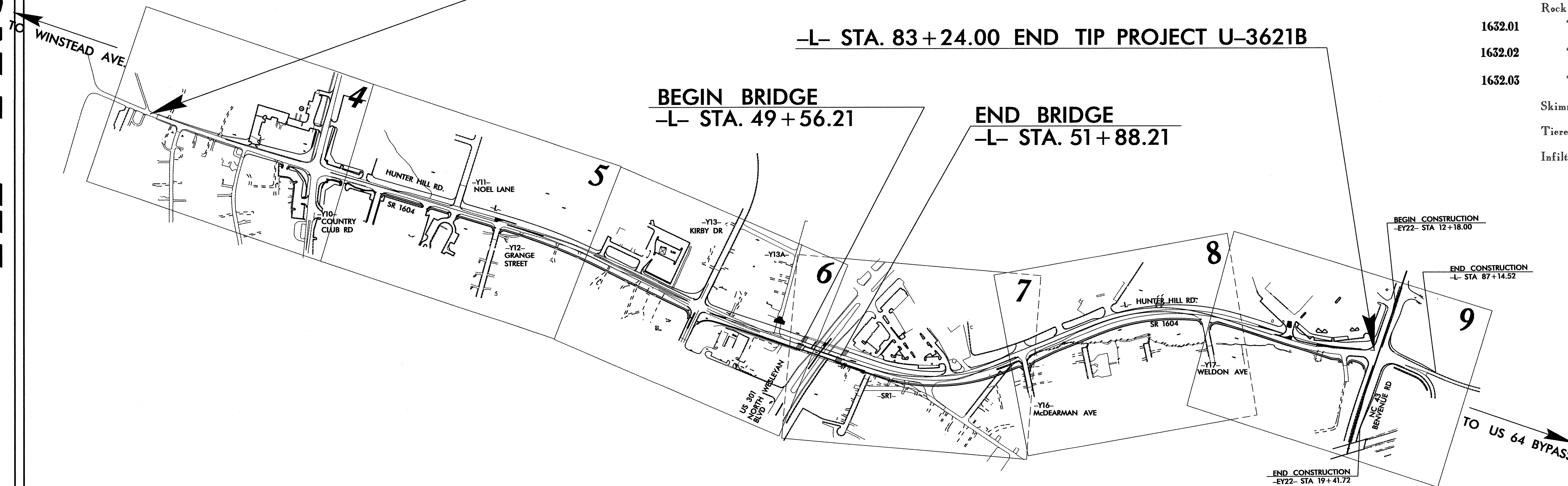


-L- STA. 10+00.00 BEGIN TIP PROJECT U-3621B

-L- STA. 83+24.00 END TIP PROJECT U-3621B

BEGIN BRIDGE
-L- STA. 49+56.21

END BRIDGE
-L- STA. 51+88.21



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	ZZZZZZZZZZ
1622.01	Temporary Berms and Slope Drains	T
	Silt Basin Type B	□
1633.01	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	⌒
1635.02	Rock Pipe Inlet Sediment Trap Type-B	⌒
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	□

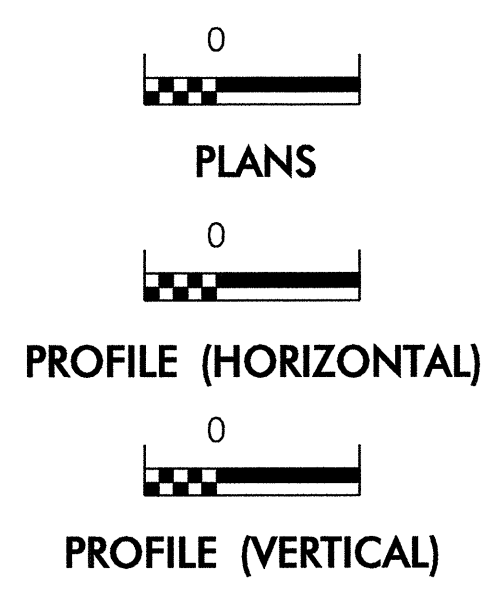
**THIS PROJECT CONTAINS
EROSION CONTROL PLANS
FOR CLEARING AND
GRUBBING PHASE OF
CONSTRUCTION.**

**THIS PROJECT HAS
BEEN DESIGNED TO
SENSITIVE WATERSHED
STANDARDS.**

**ENVIRONMENTALLY
SENSITIVE AREA(S) EXIST
ON THIS PROJECT**

*Refer To E. C. Special Provisions
for Special Considerations.*

GRAPHIC SCALE



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

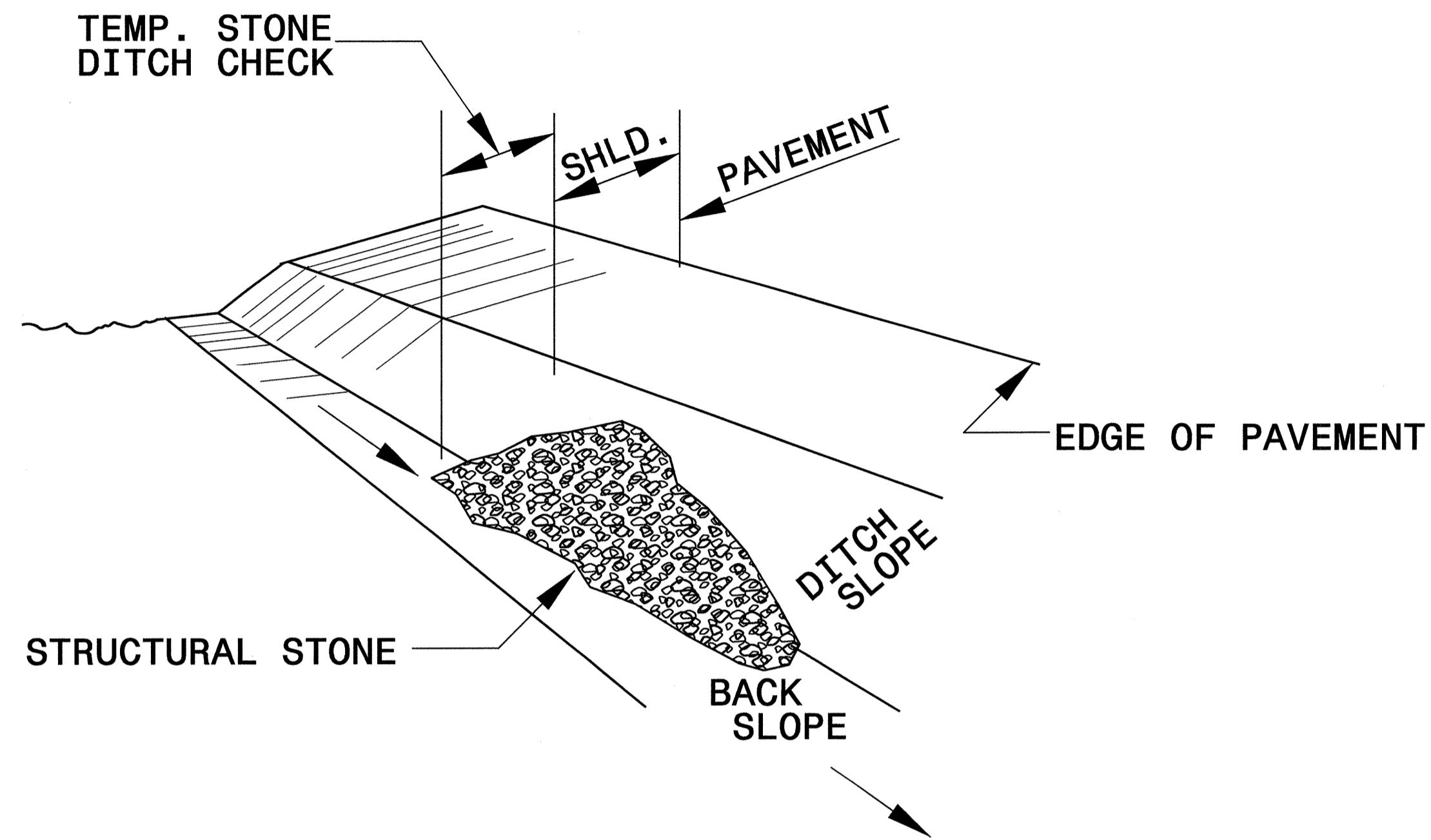
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence	1630.06 Special Stilling Basin
1606.01 Special Sediment Control Fence	1632.02 Rock Inlet Sediment Trap Type B
1607.01 Gravel Construction Entrance	1632.03 Rock Inlet Sediment Trap Type C
1622.01 Temporary Berms and Slope Drains	1633.01 Temporary Rock Silt Check Type A
1630.03 Temporary Silt Ditch	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	

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R:\E:\v\p\proj\2006\12\1213\13_U3621B_EC_tsh.dgn
Plot on A1 PENN23812

PROJECT REFERENCE NO. U-3621B	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

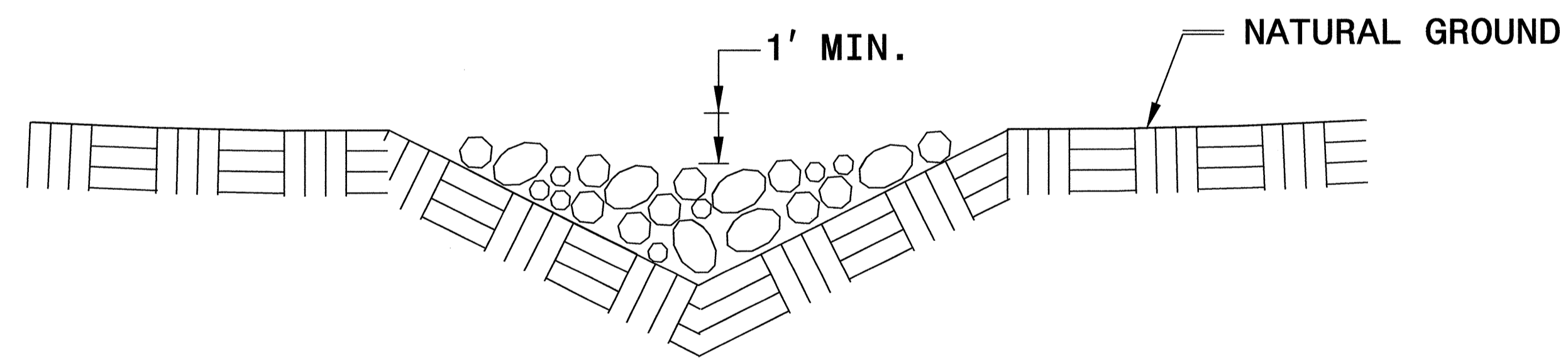


ISOMETRIC VIEW

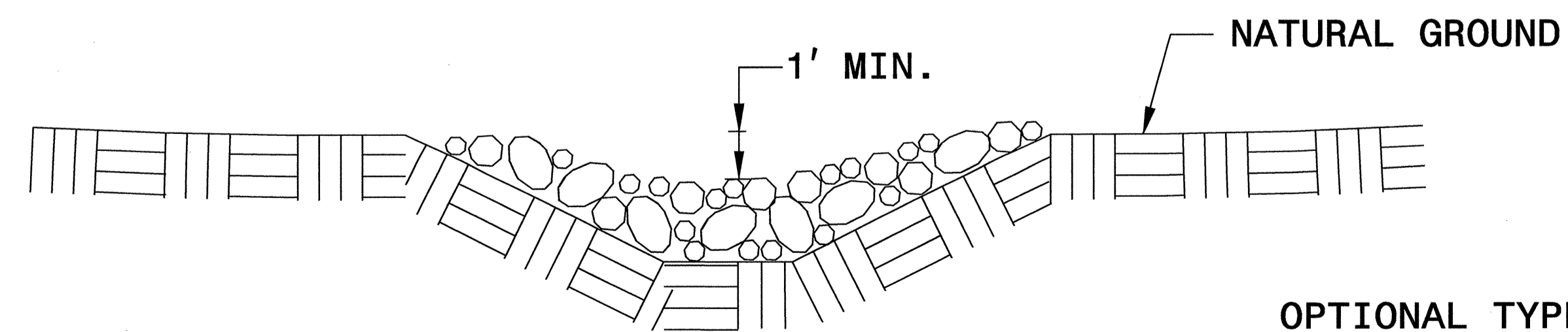
NOTES:

USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.

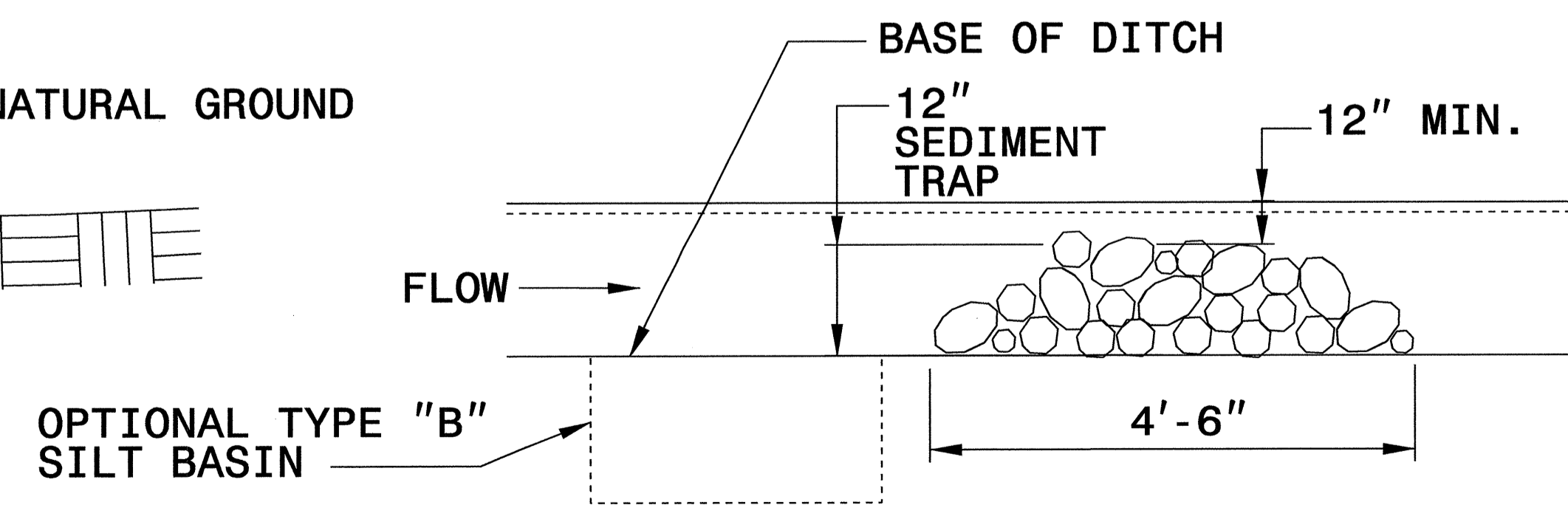
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



**CROSS SECTION
VEE DITCH**



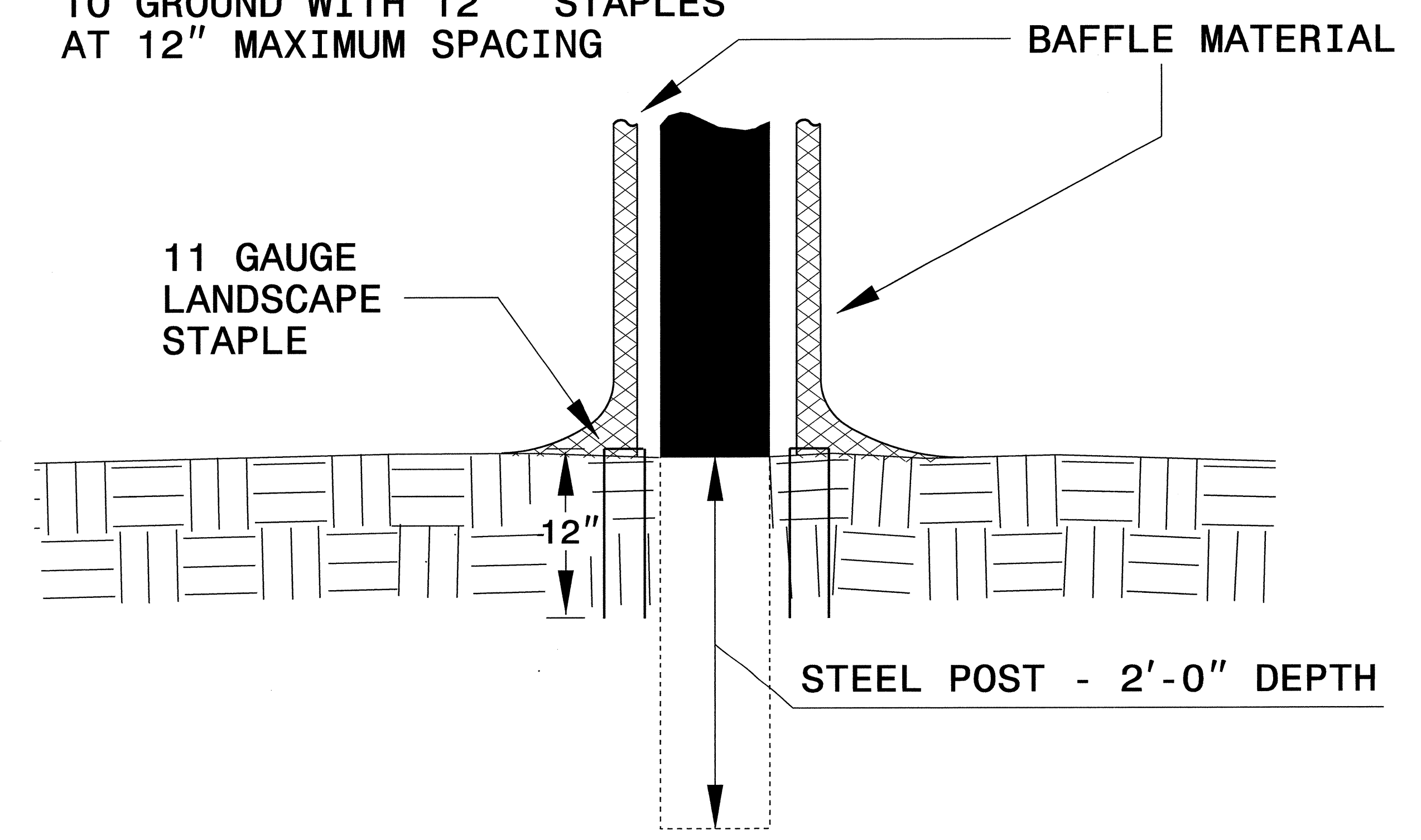
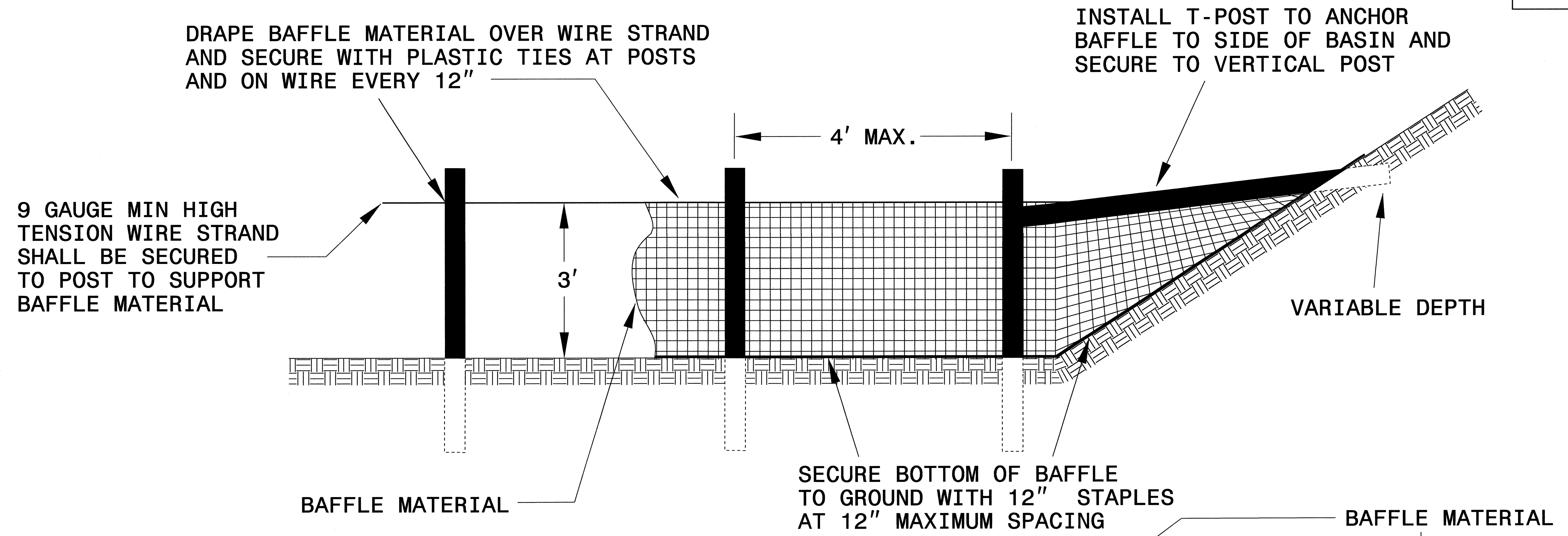
**CROSS SECTION
TRAPEZOIDAL DITCH**



ELEVATION VIEW

PROJECT REFERENCE NO. U-3621B	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL



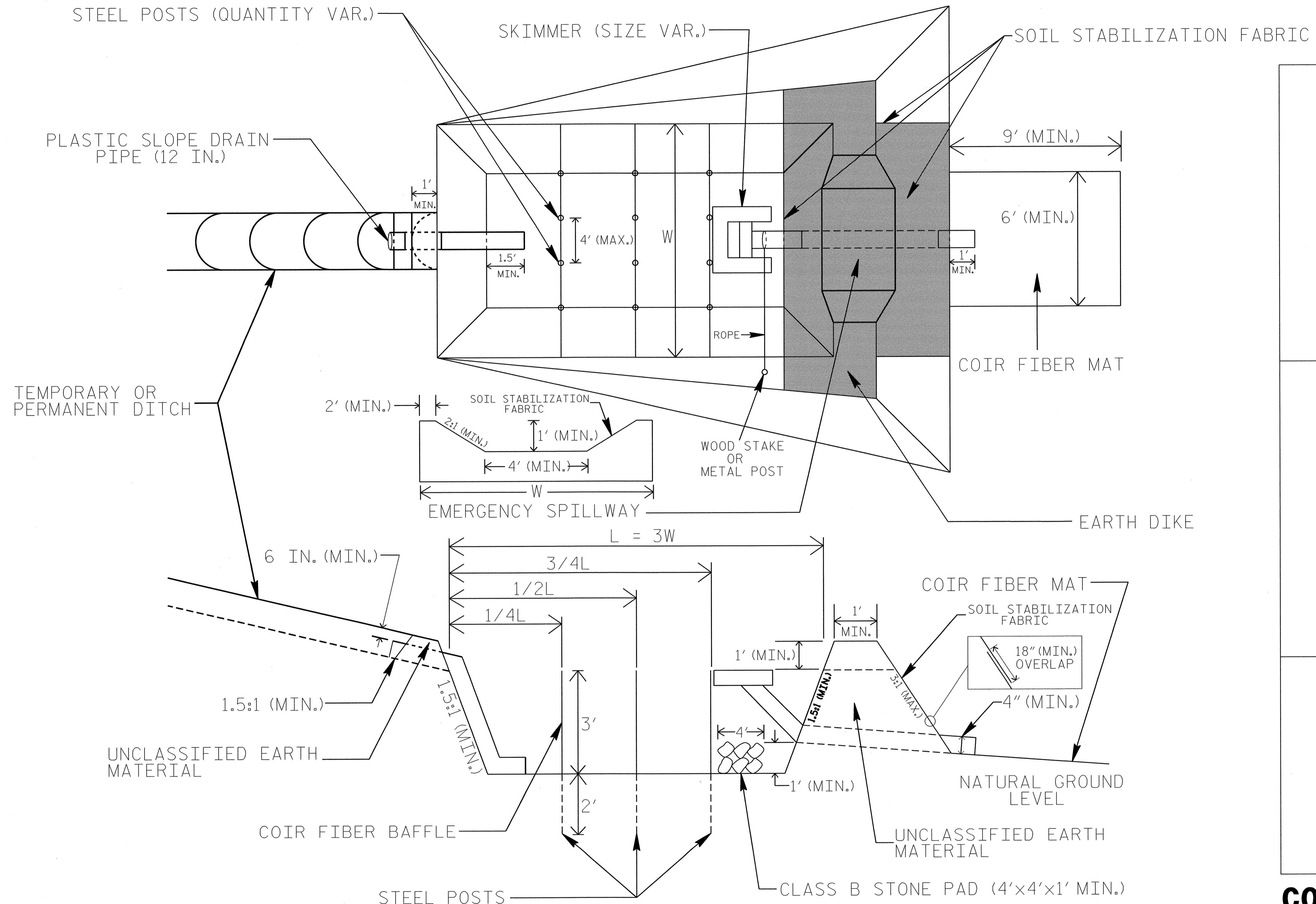
NOTES:

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

SKIMMER BASIN WITH BAFFLES DETAIL

PROJECT REFERENCE NO. U-3621B	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



NOTES

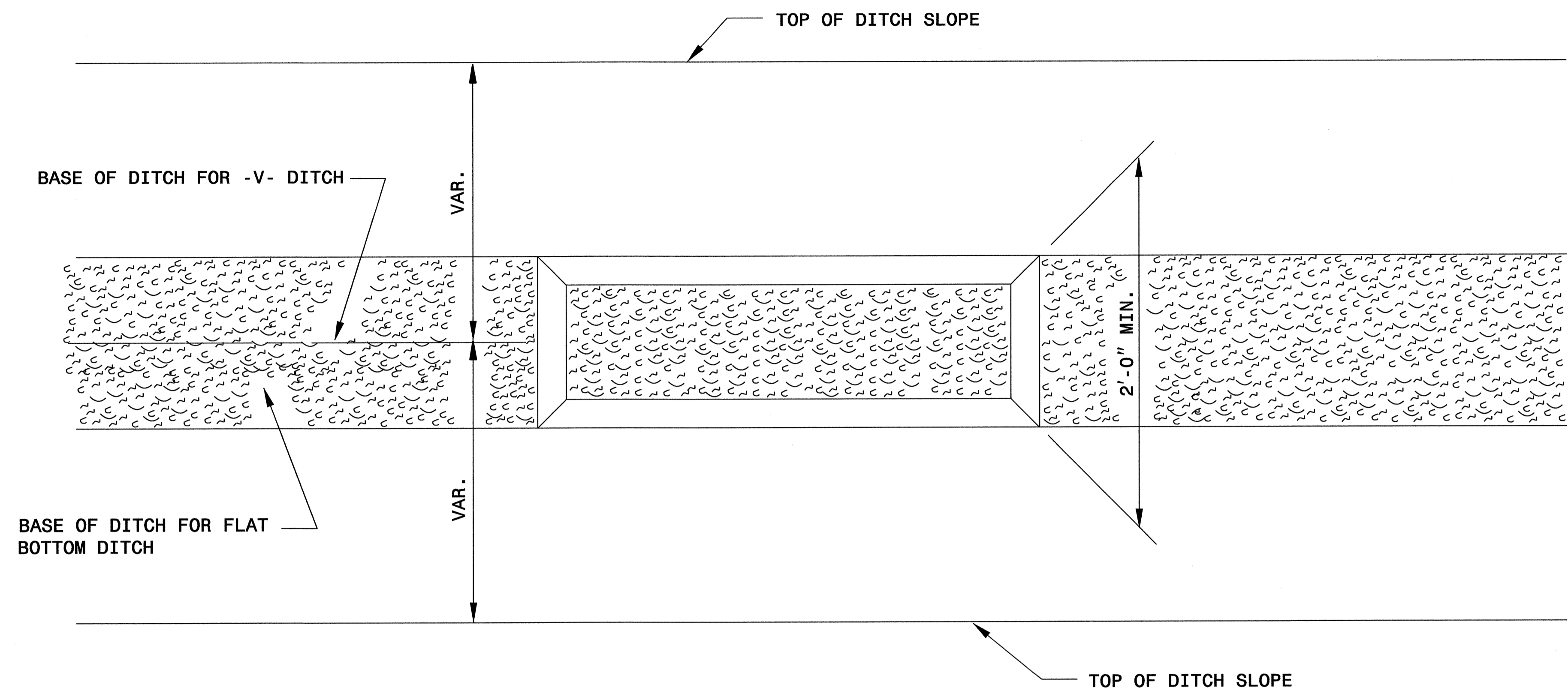
1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
3. FOR BASIN DEPTH OF 3 FT., THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
4. DETERMINE EMERGENCY SPILLWAY LENGTH (FT.) USING $Q/0.8$, WHERE Q IS FLOW RATE (CFS) INTO BASIN.
5. PLASTIC SLOPE DRAIN PIPE AT INLET OF BASIN MAY BE REPLACED BY FILTER FABRIC AS DIRECTED.
6. SOIL STABILIZATION FABRIC FOR EMERGENCY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18" AS SHOWN.

NOT TO SCALE

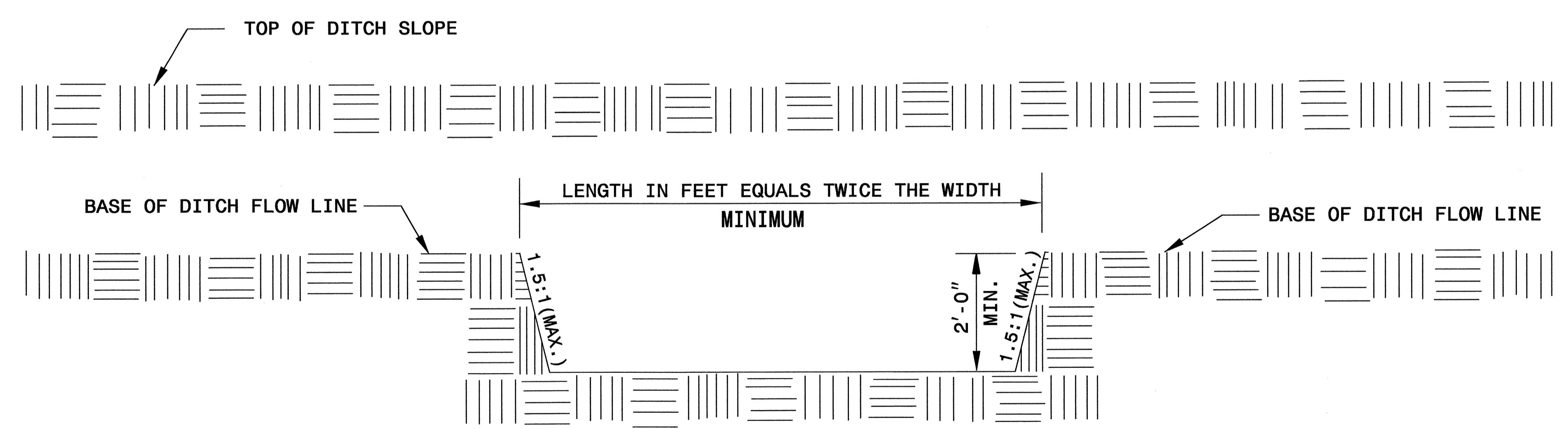
COIR FIBER MAT ANCHOR OPTIONS

PROJECT REFERENCE NO. <i>U-3621B</i>	SHEET NO. <i>EC-2C</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SILT BASIN 'B' DETAIL



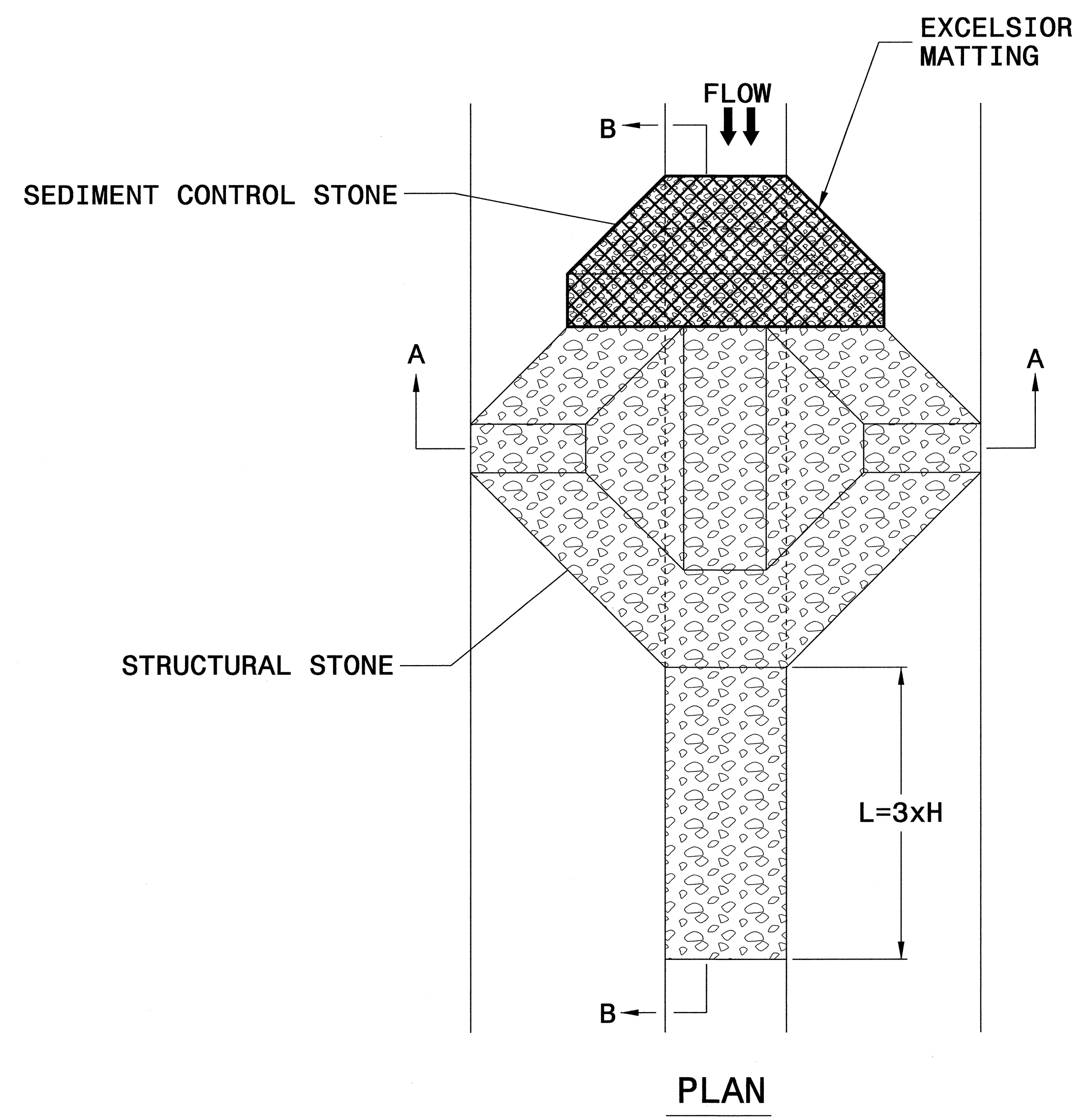
PLAN



ELEVATION

PROJECT REFERENCE NO. U-3621B	SHEET NO. EC-2D
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

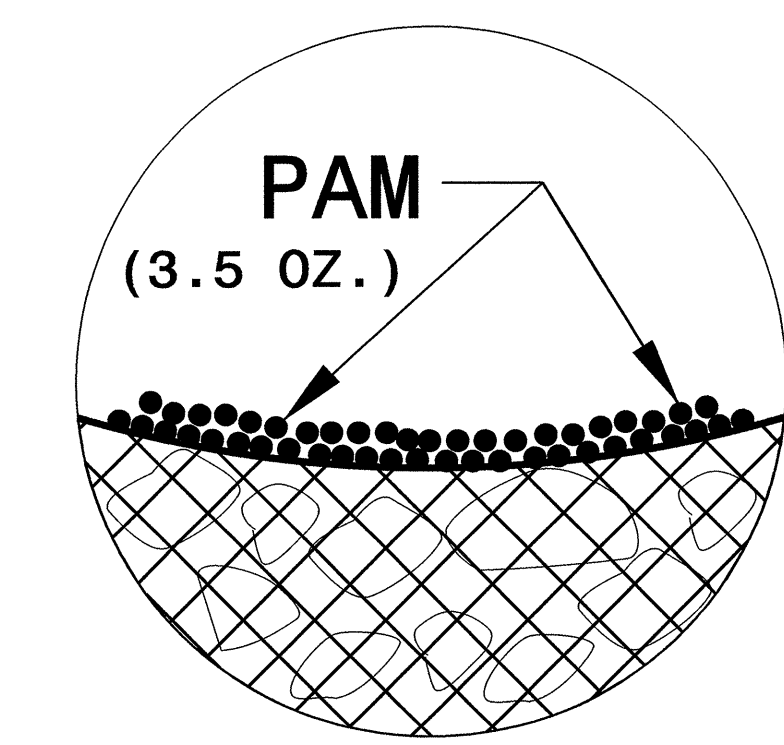


NOTES

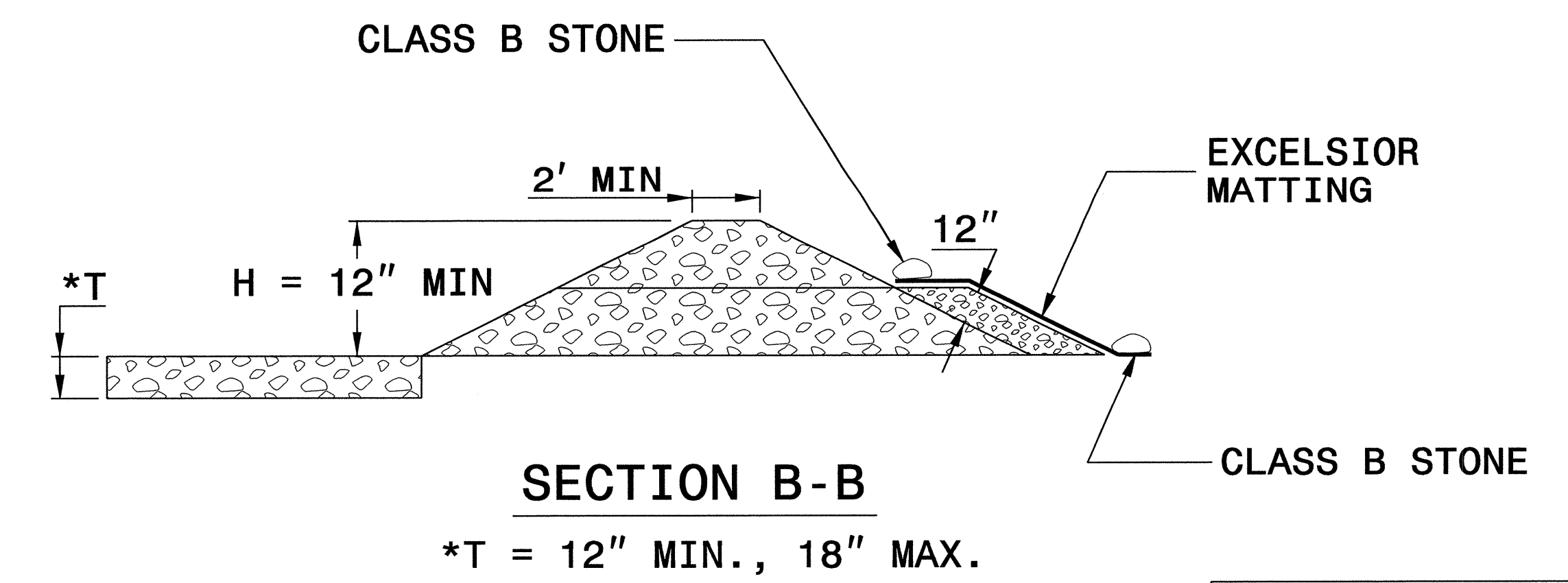
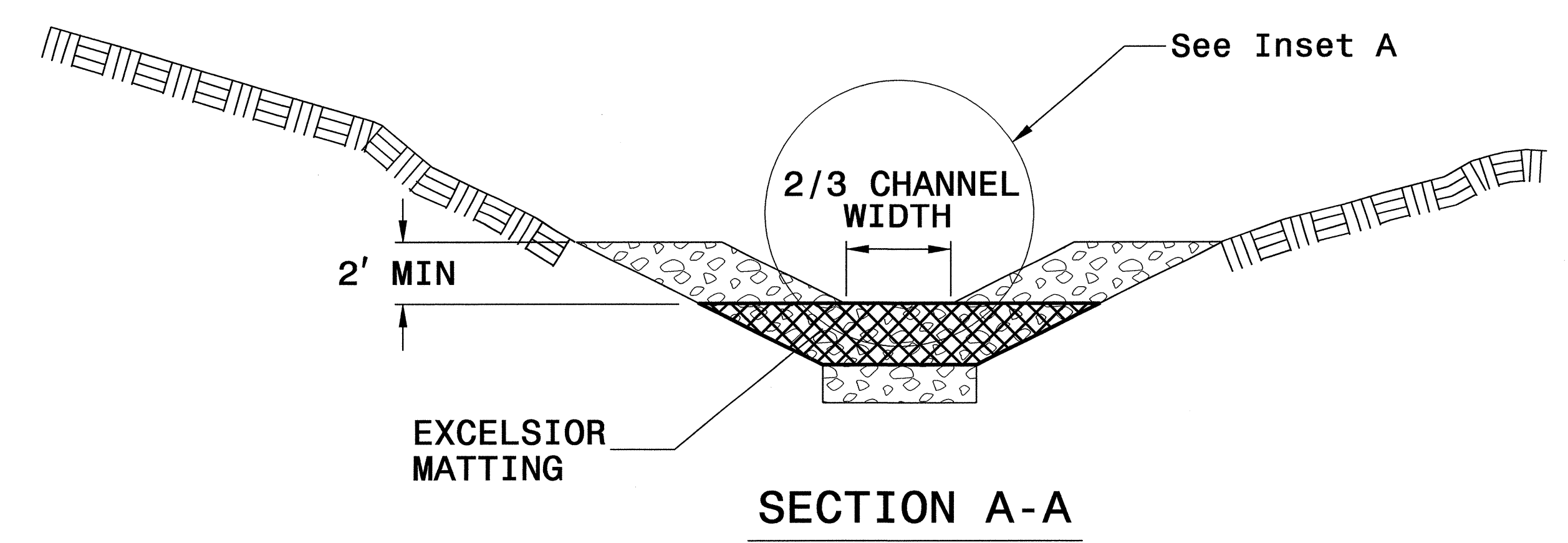
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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.



INSET A



NOT TO SCALE

BORROW PIT DEWATERING BASIN DETAIL

PROJECT REFERENCE NO. U-3621B	SHEET NO. EC-2E
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 WITH A MATERIAL THAT MEETS THE SPECIFICATIONS OF THE COIR FIBER MAT SPECIAL PROVISION PROVIDED IN THE CONTRACT.

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 FILTER FABRIC 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.

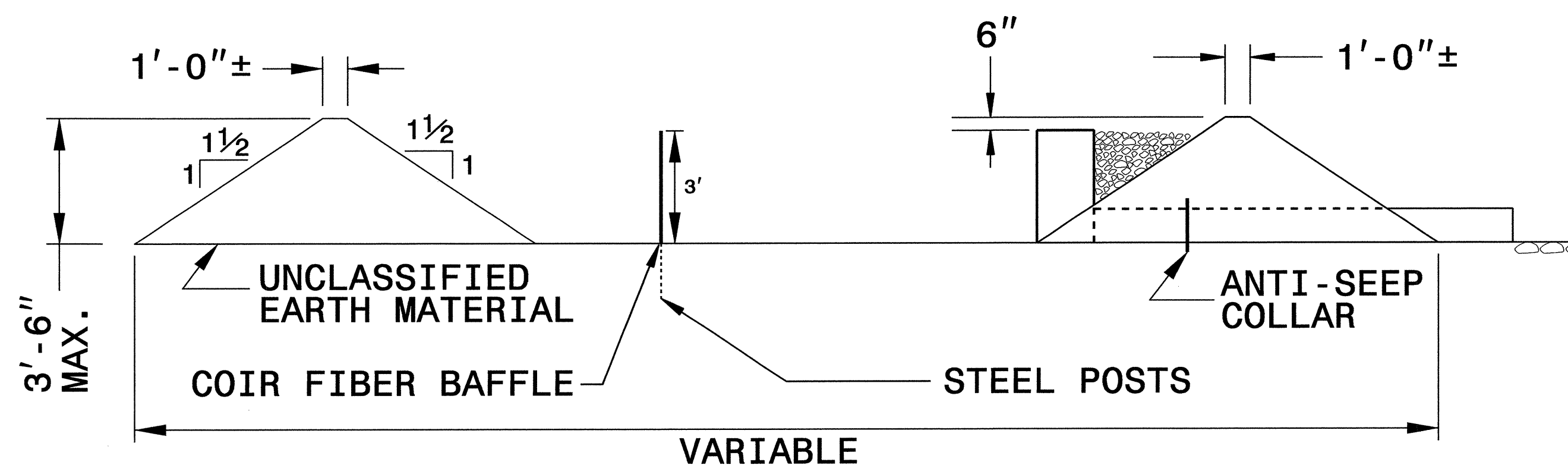
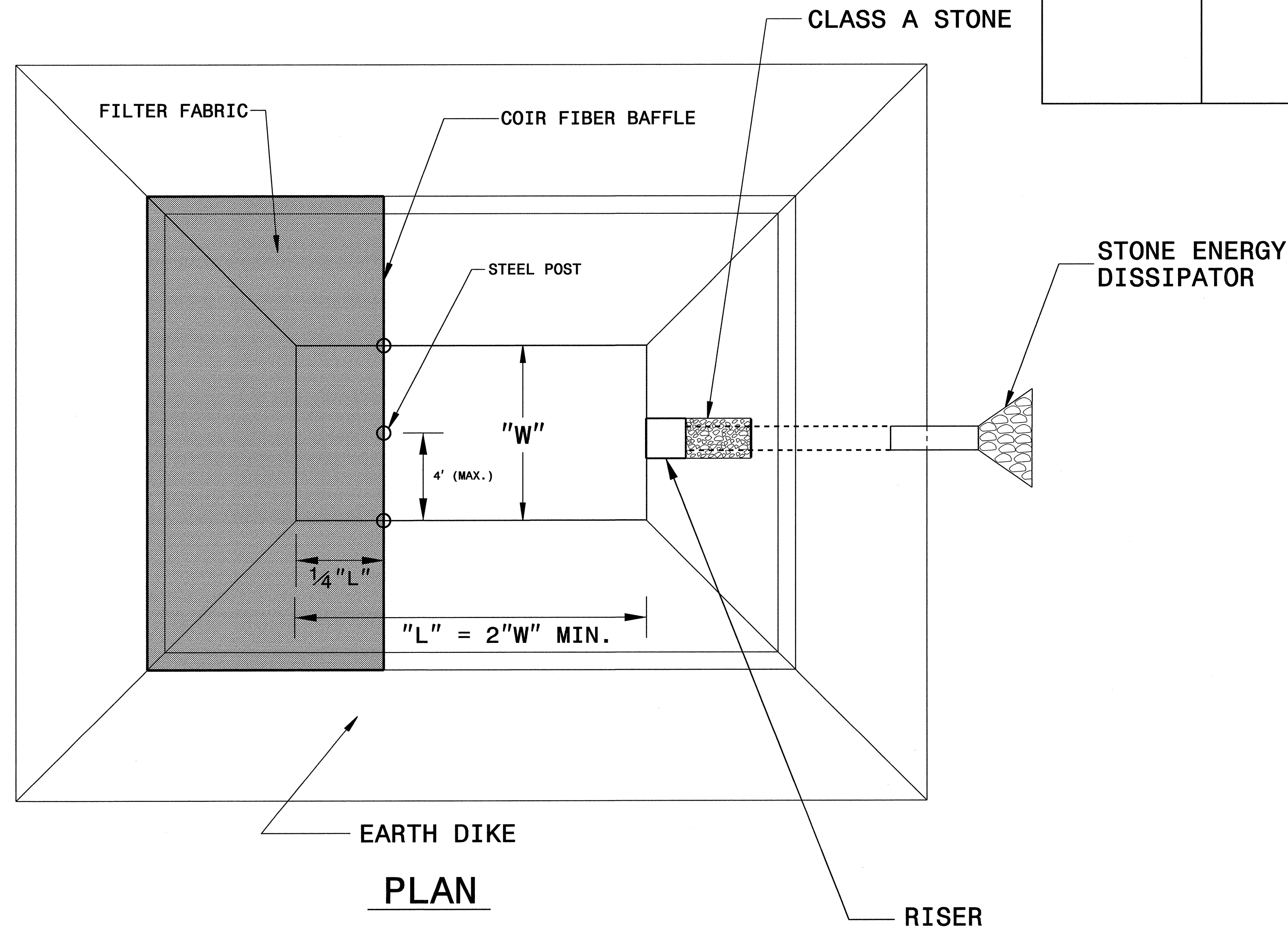
DO NOT EXCEED 3½ FT. IN HEIGHT FOR THE EARTH DIKES REQUIRED FOR BORROW PIT DEWATERING BASIN.

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.

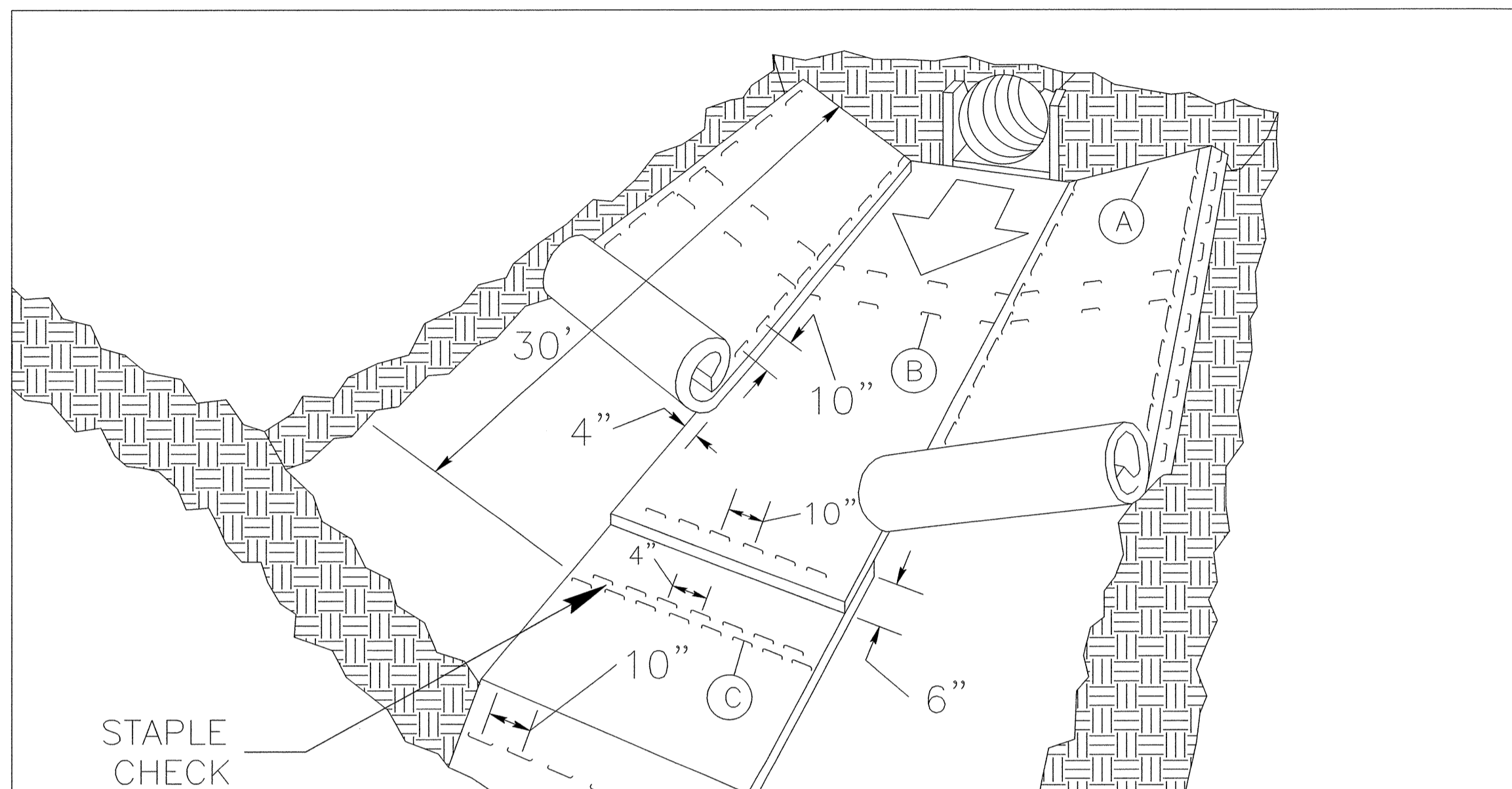
PROVIDE A STONE ENERGY DISSIPATOR PAD AT THE OUTLET OF THE PUMP DISCHARGE HOSE AND OUTLET OF THE RISER BARREL IN ACCORDANCE WITH ROADWAY STANDARD DRAWING 876.02 FOR OUTLET W/O DITCH.



NOT TO SCALE

PROJECT REFERENCE NO. U-3621B	SHEET NO. EC-2F
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATTING INSTALLATION DETAIL



MATTING IN DITCHES

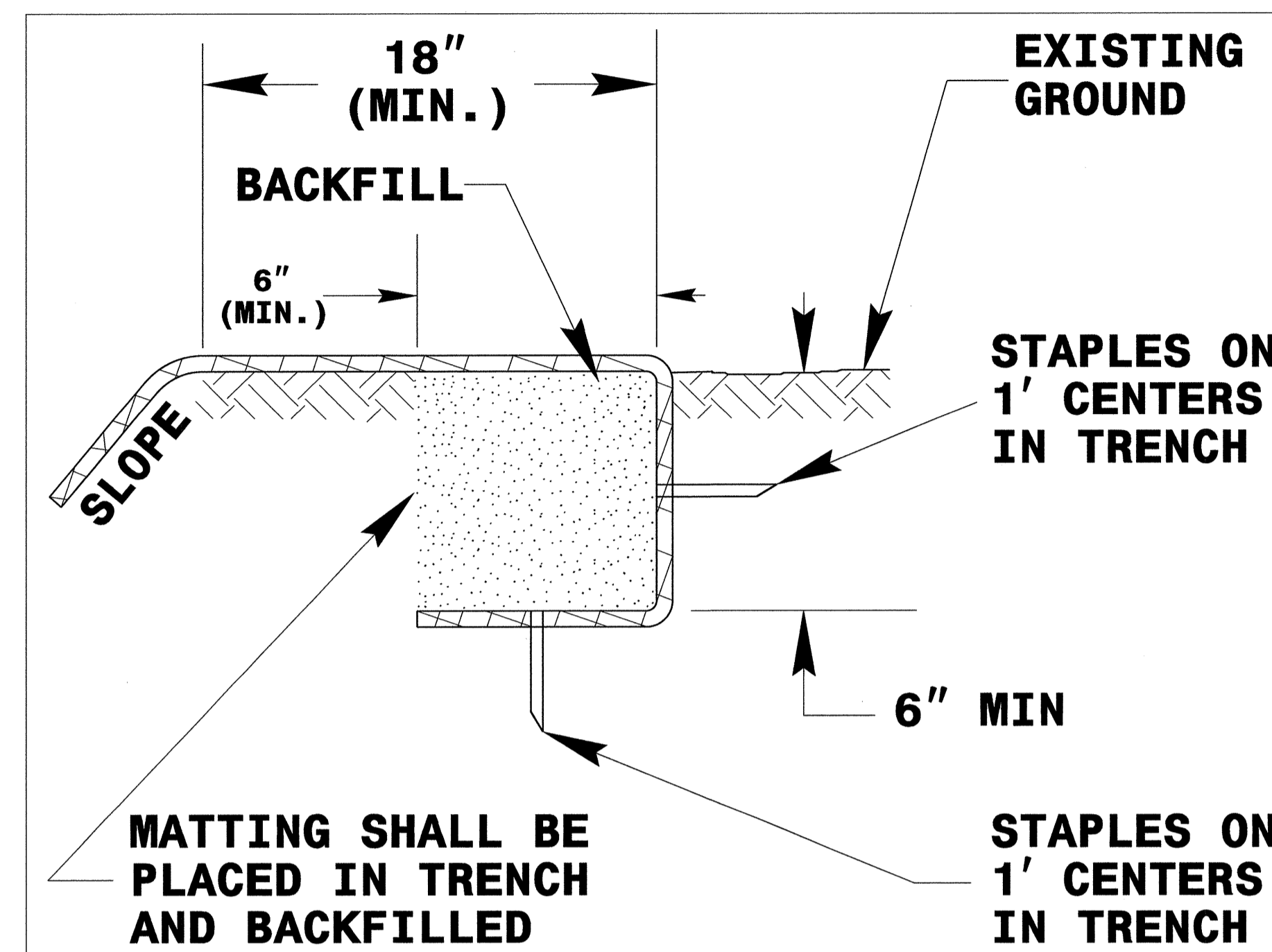
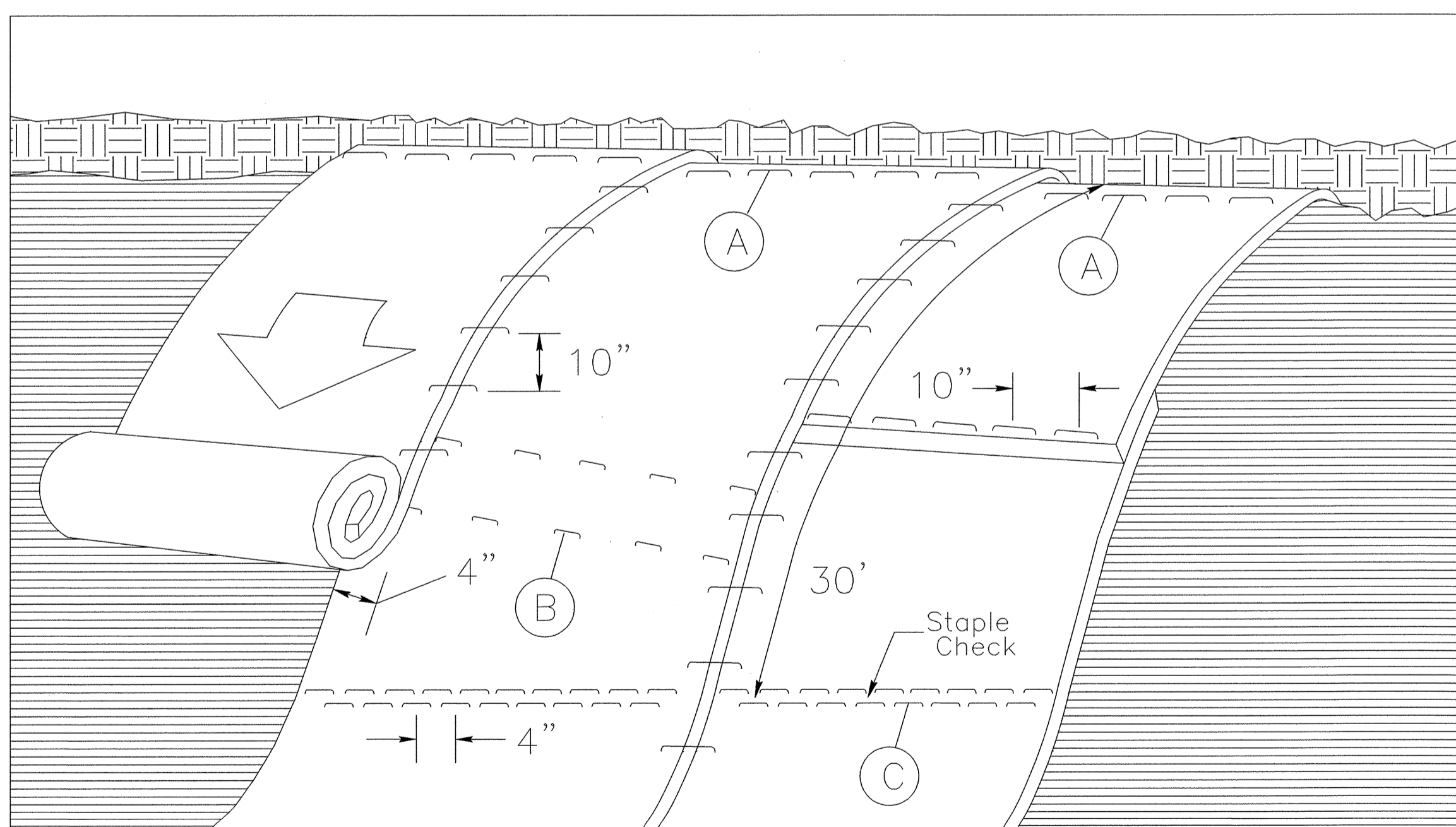


DIAGRAM (A)



MATTING ON SLOPES

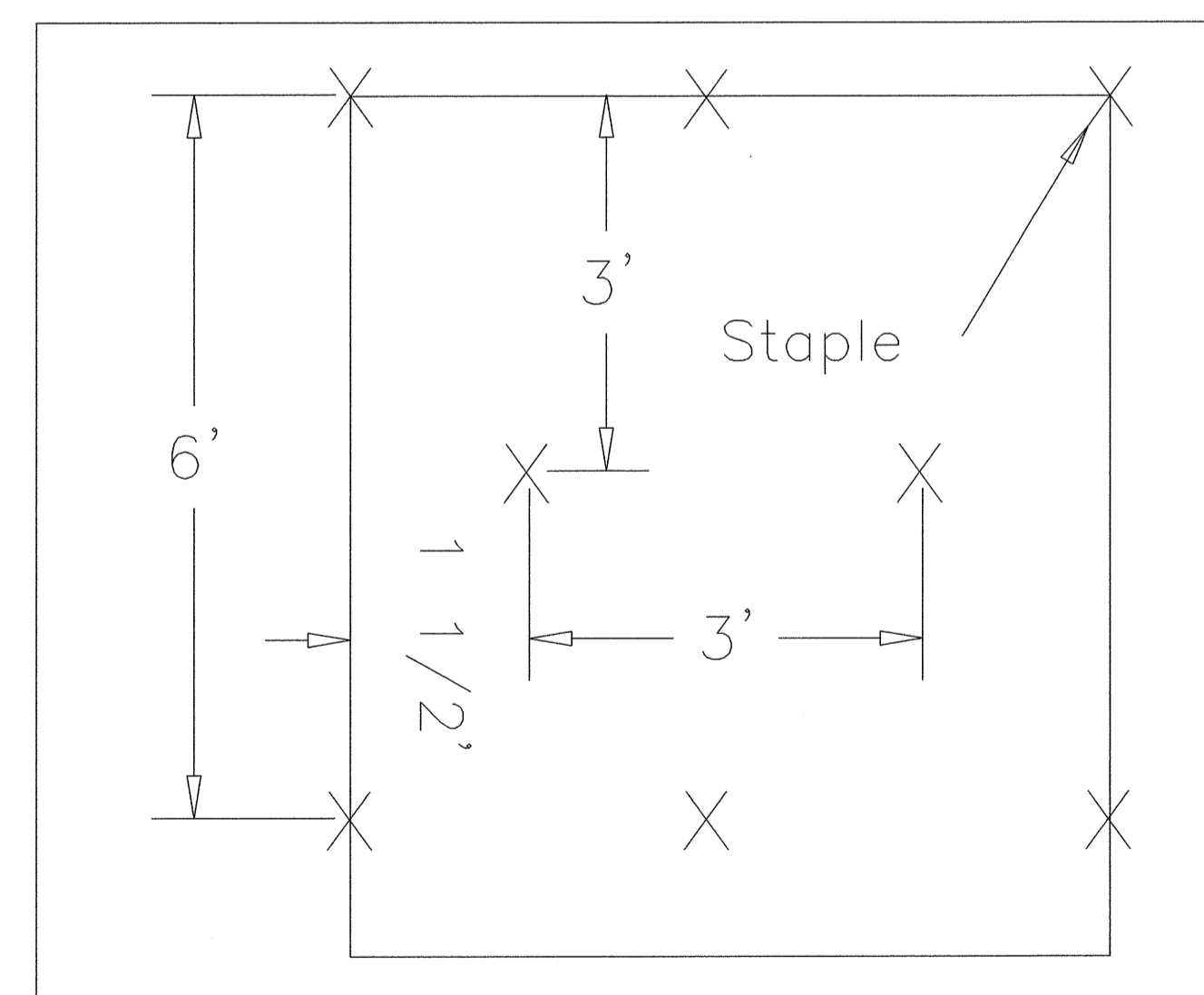


DIAGRAM (B)

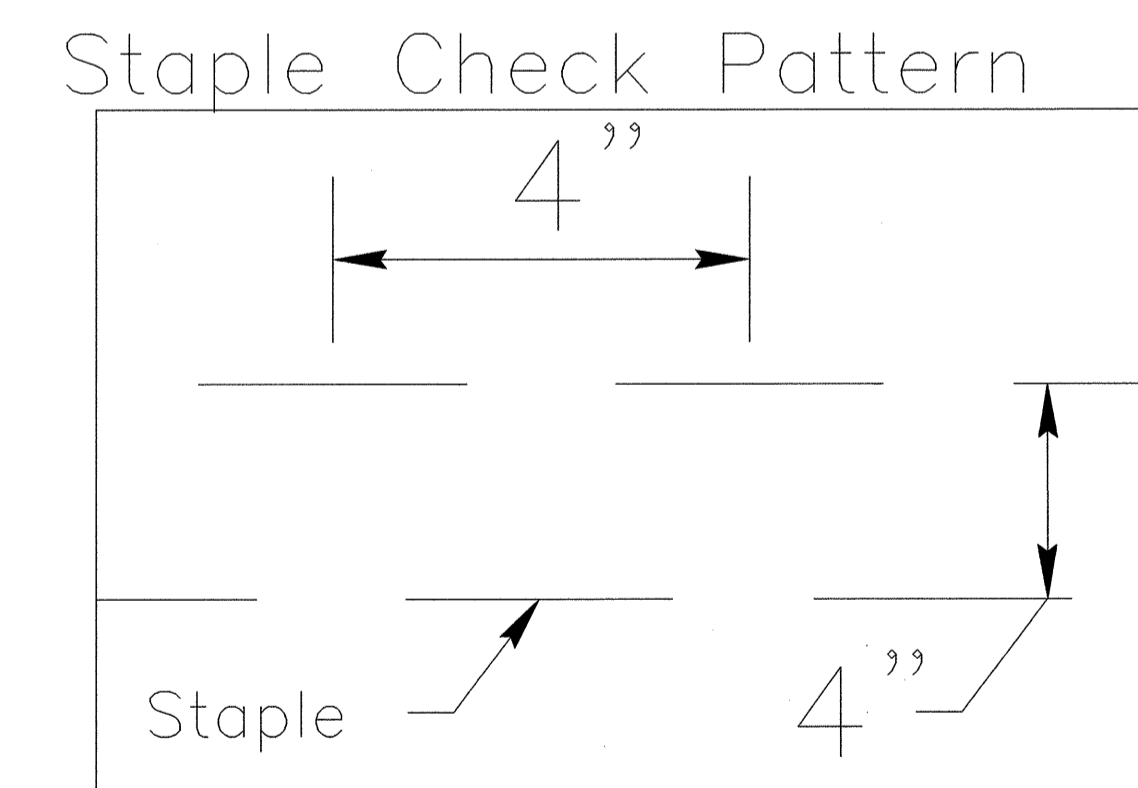


DIAGRAM (C)

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.

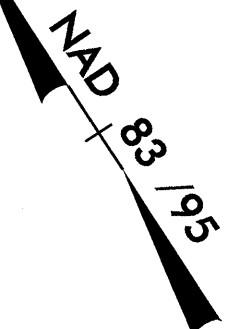
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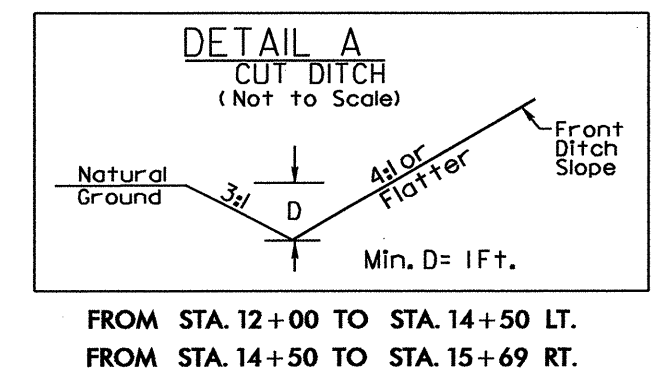
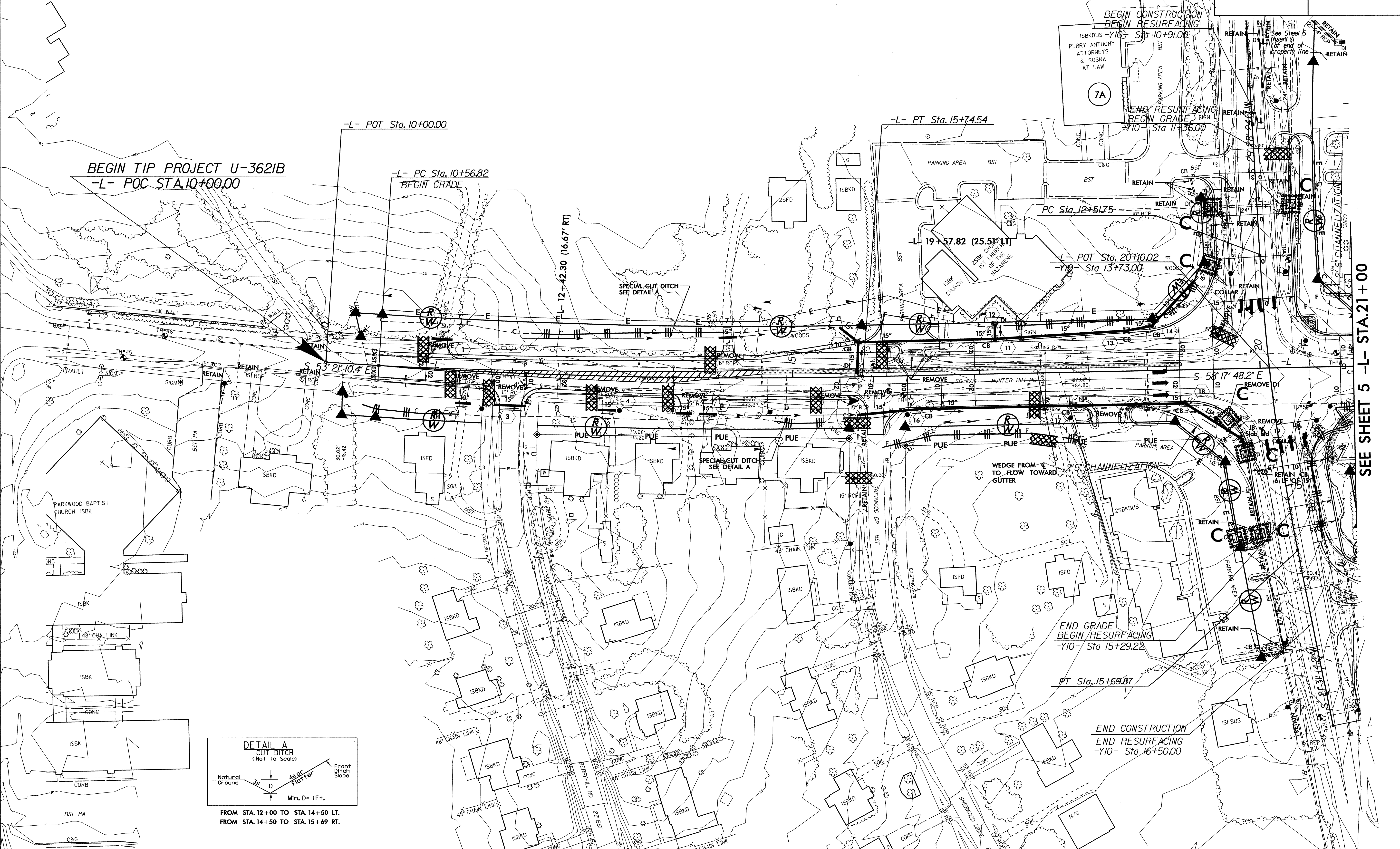
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

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

SEE SHEET 10 FOR LINE -L- PROFILE
SEE SHEET 13 FOR LINE -Y10- PROFILE



PROJECT REFERENCE NO. U-3621B	SHEET NO. EC-4/CONST.4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



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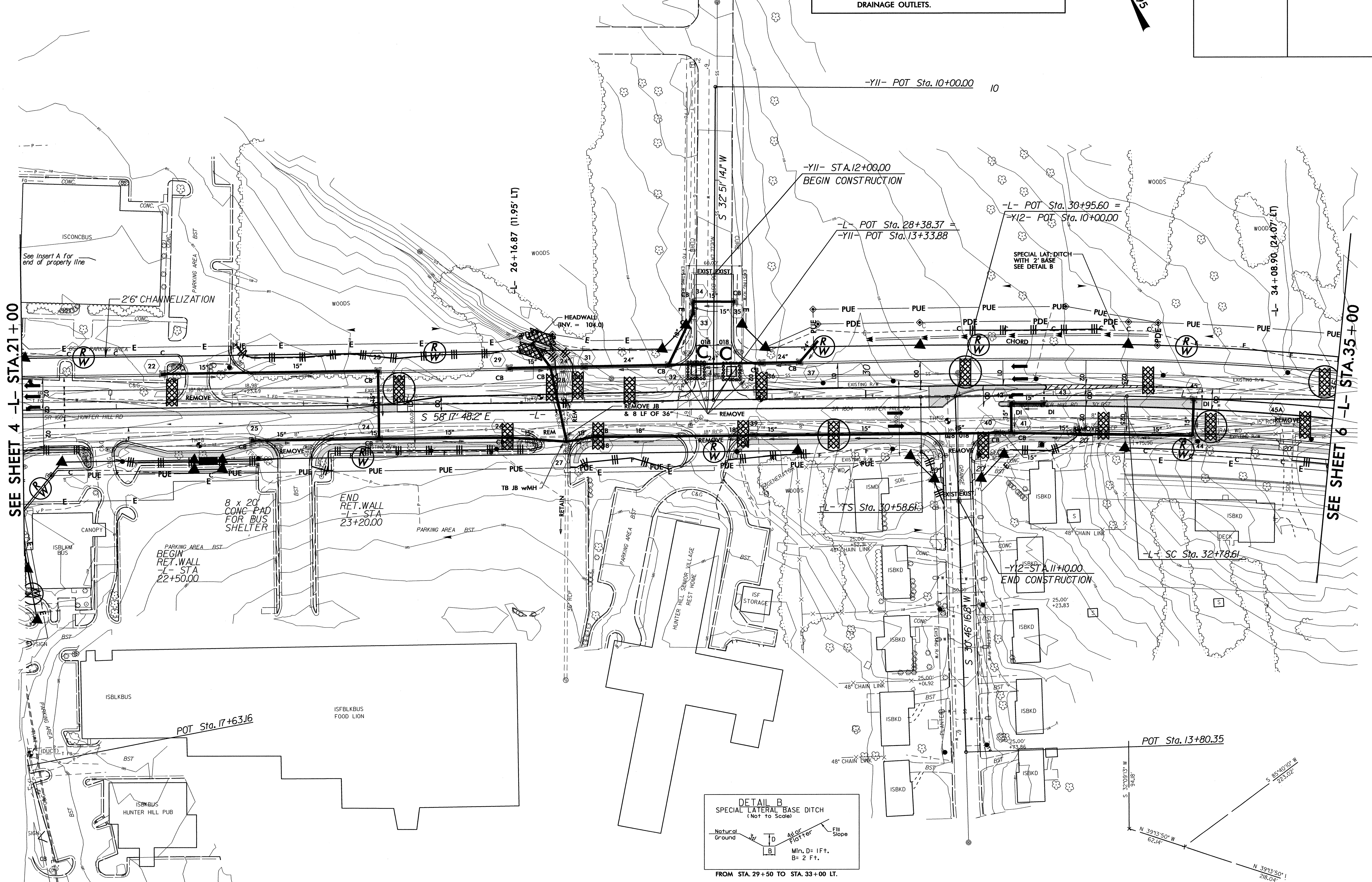
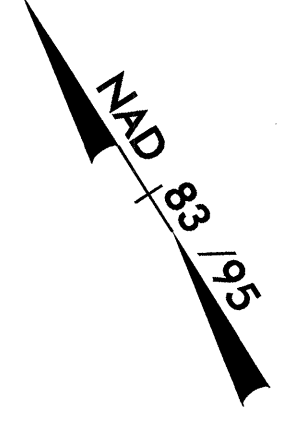
SEE SHEET 5 -L- STA. 21+00

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CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

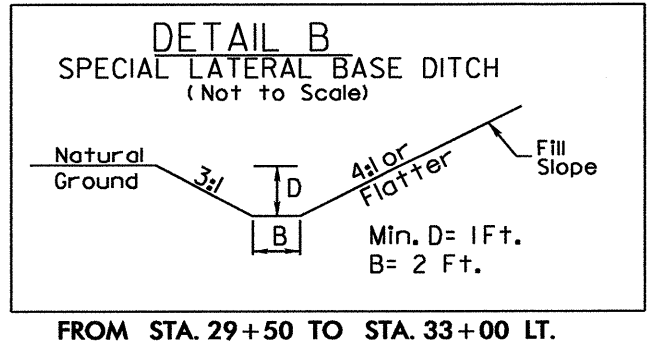
PROJECT REFERENCE NO.	SHEET NO.
U-3621B	EC-5/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



SEE SHEET 4 -L- STA.21+00

SEE SHEET 6 -L- STA.35+00



FROM STA. 29+50 TO STA. 33+00 LT.

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PROJECT REFERENCE NO.	SHEET NO.
U-3621B	EC-6/CONST.6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

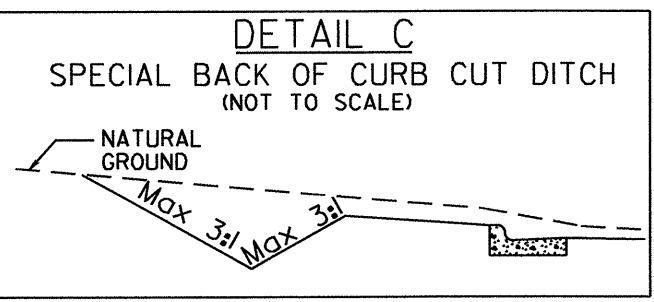
-L-

PIs Sta 36+56.37 Os = 2'06"03.0" Ls = 220.00 LT = 146.68' ST = 73.34'	PIs Sta 41+77.68 Os = 2'06"03.0" Ls = 220.00 LT = 146.68' ST = 73.34'	PI Sta 43+43.38 Δ = 3'31"38.7" (LT) D = 1'54"35.5" L = 184.70' T = 92.38' R = 3,000.00'	PIs Sta 45+09.04 Os = 2'06"03.0" Ls = 220.00' LT = 146.68' ST = 73.34'
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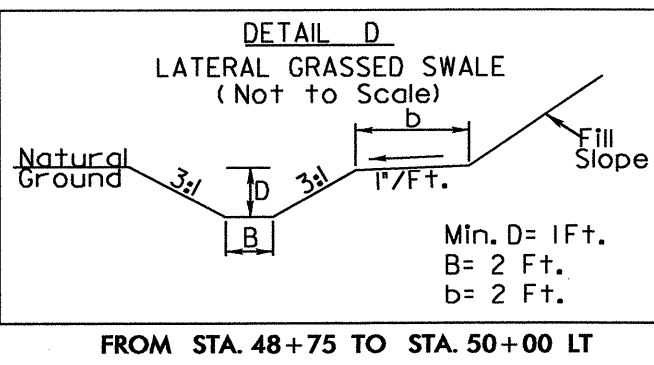
RO = SEE PLANS

-Y13-

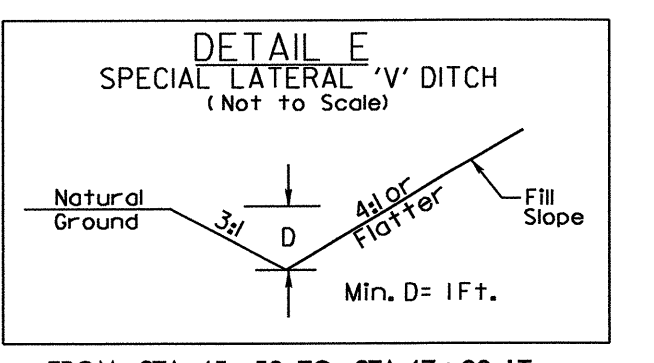
PI Sta 14+87.55 Δ = 1'03"45.9" (LT) D = 0'34"22.6" L = 185.48' T = 92.75' R = 10,000.00'



FROM -L- STA. 41+70 TO STA. 42+70 LT.
FROM -L- STA. 43+85 TO STA. 45+10 LT.
FROM -Y13- STA. 8+70 TO STA. 10+20 LT.
FROM -Y13- STA. 14+50 TO STA. 14+90 RT.
FROM -Y13- STA. 14+70 TO STA. 15+00 LT.



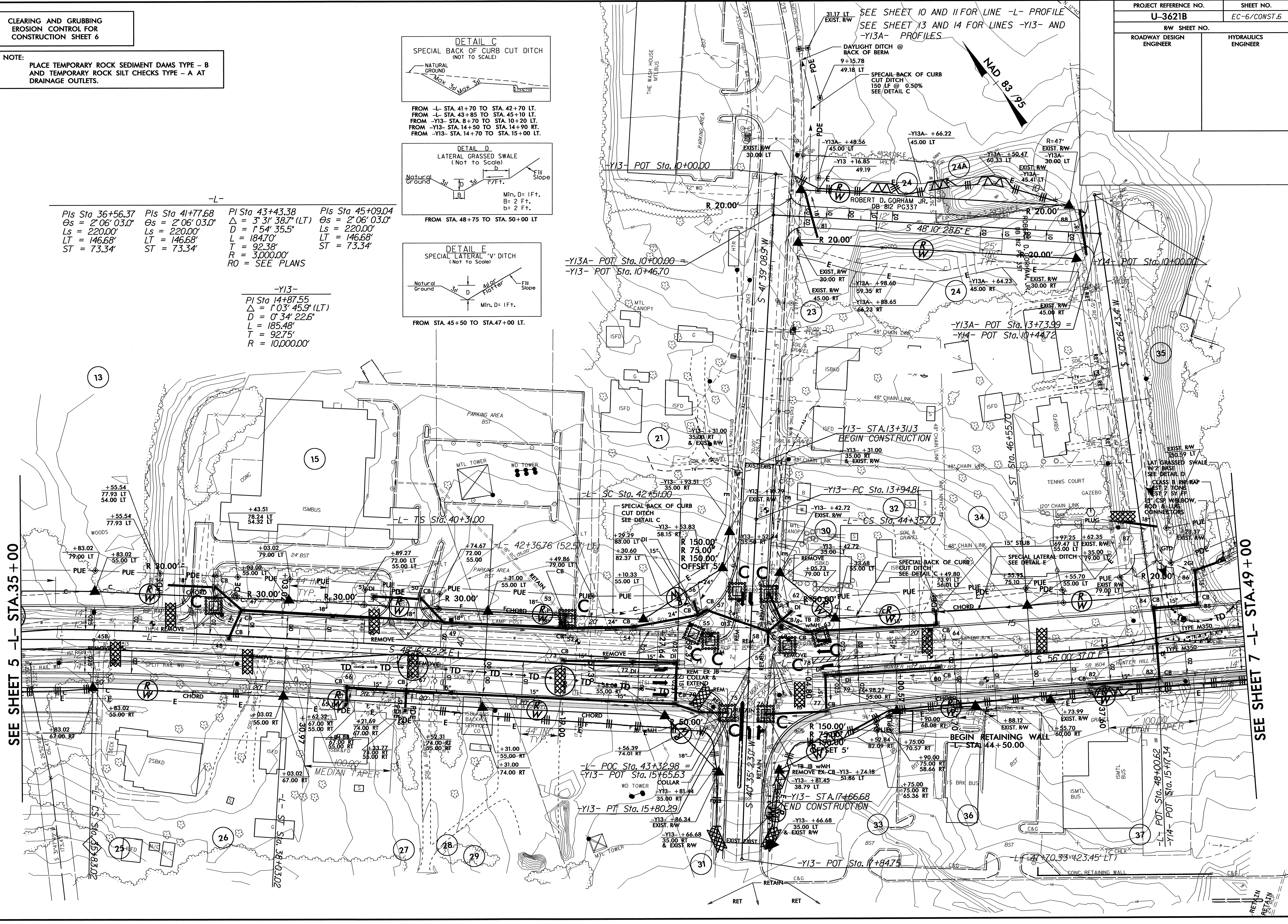
FROM STA. 48+75 TO STA. 50+00 LT



FROM STA. 45+50 TO STA. 47+00 LT.

SEE SHEET 5 -L- STA.35+00

SEE SHEET 7 -L- STA.49+00



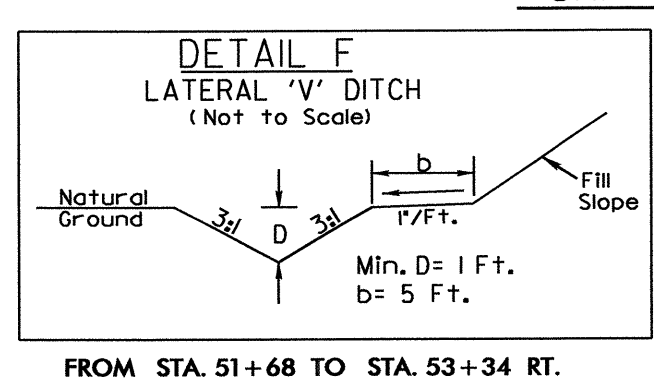
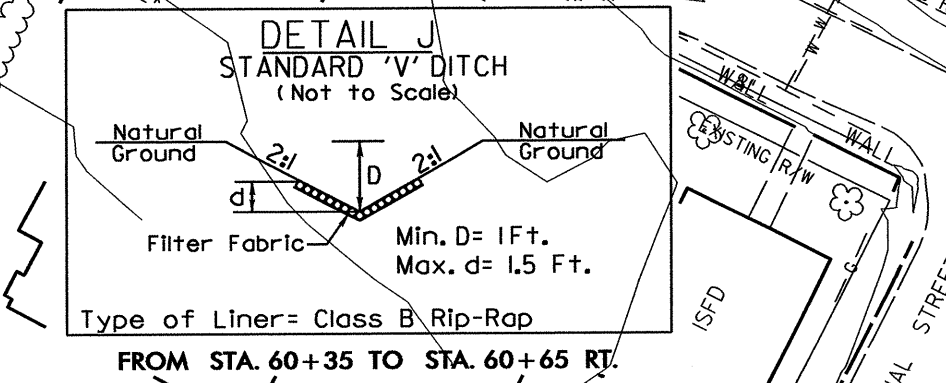
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Author: AL

PROJECT REFERENCE NO. U-3621B	SHEET NO. EC-7/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SEE SHEET 11 FOR LINE -L- PROFILE
SEE SHEET 14 AND 15 FOR LINES -SRI- AND -DRIVE- PROFILES

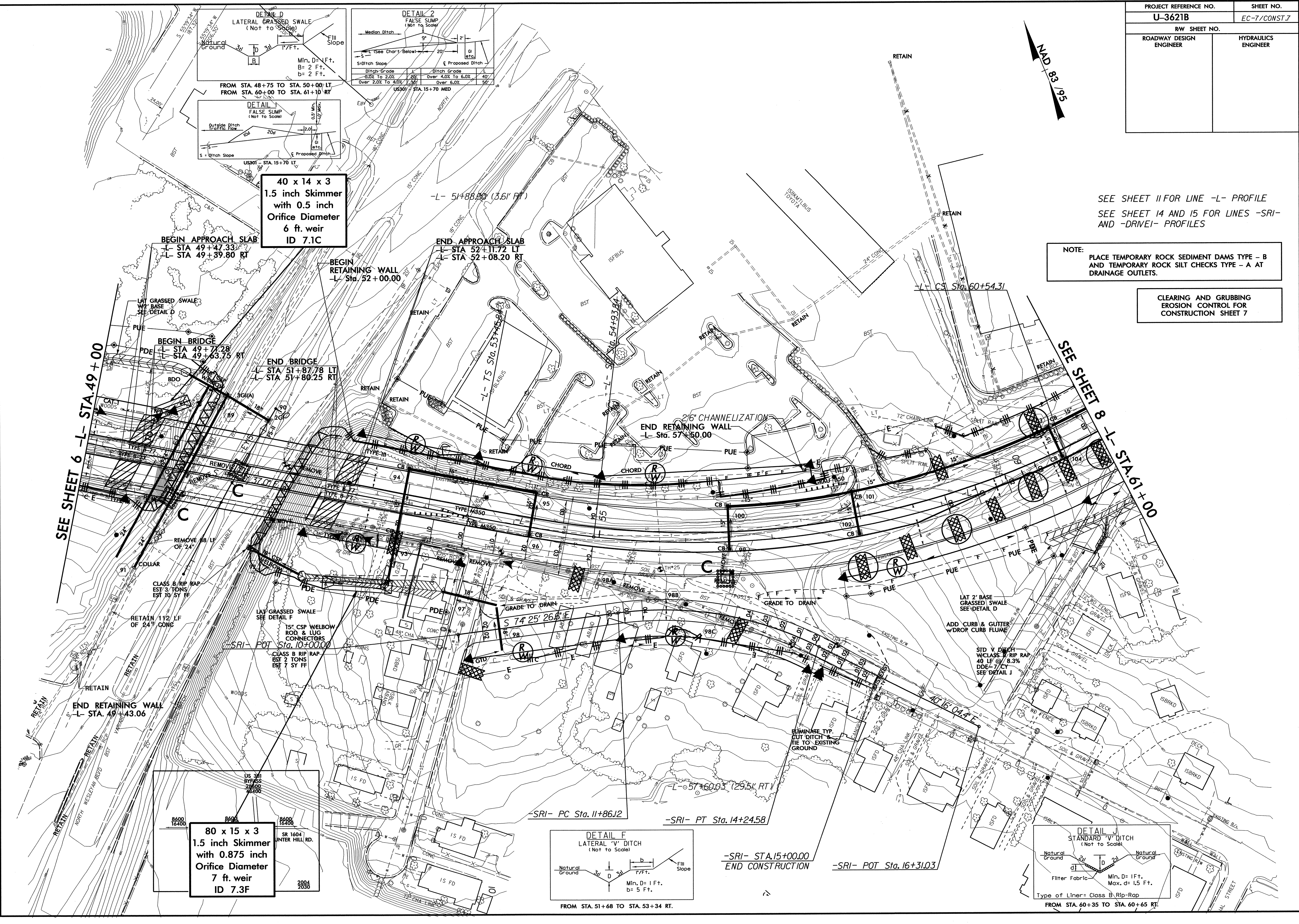
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 7



80 x 15 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
7 ft. weir
ID 7.3F

40 x 14 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
6 ft. weir
ID 7.1C



SEE SHEET 8 -L- STA.61+00

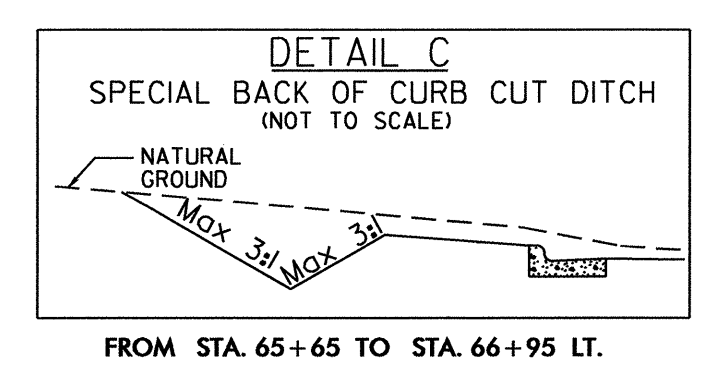
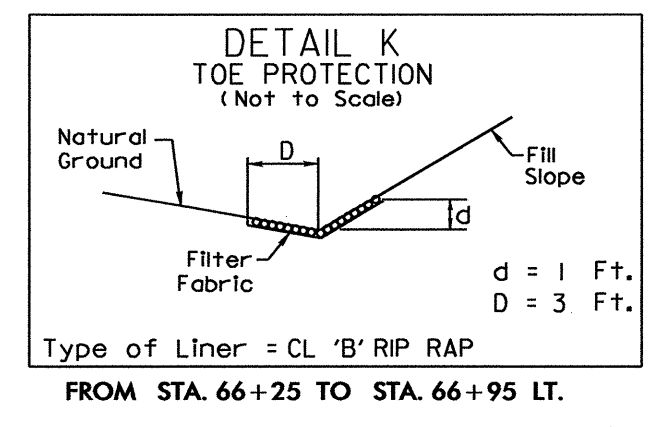
SEE SHEET 6 -L- STA.49+00

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 REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
U-3621B	EC-8/CONST.8
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.



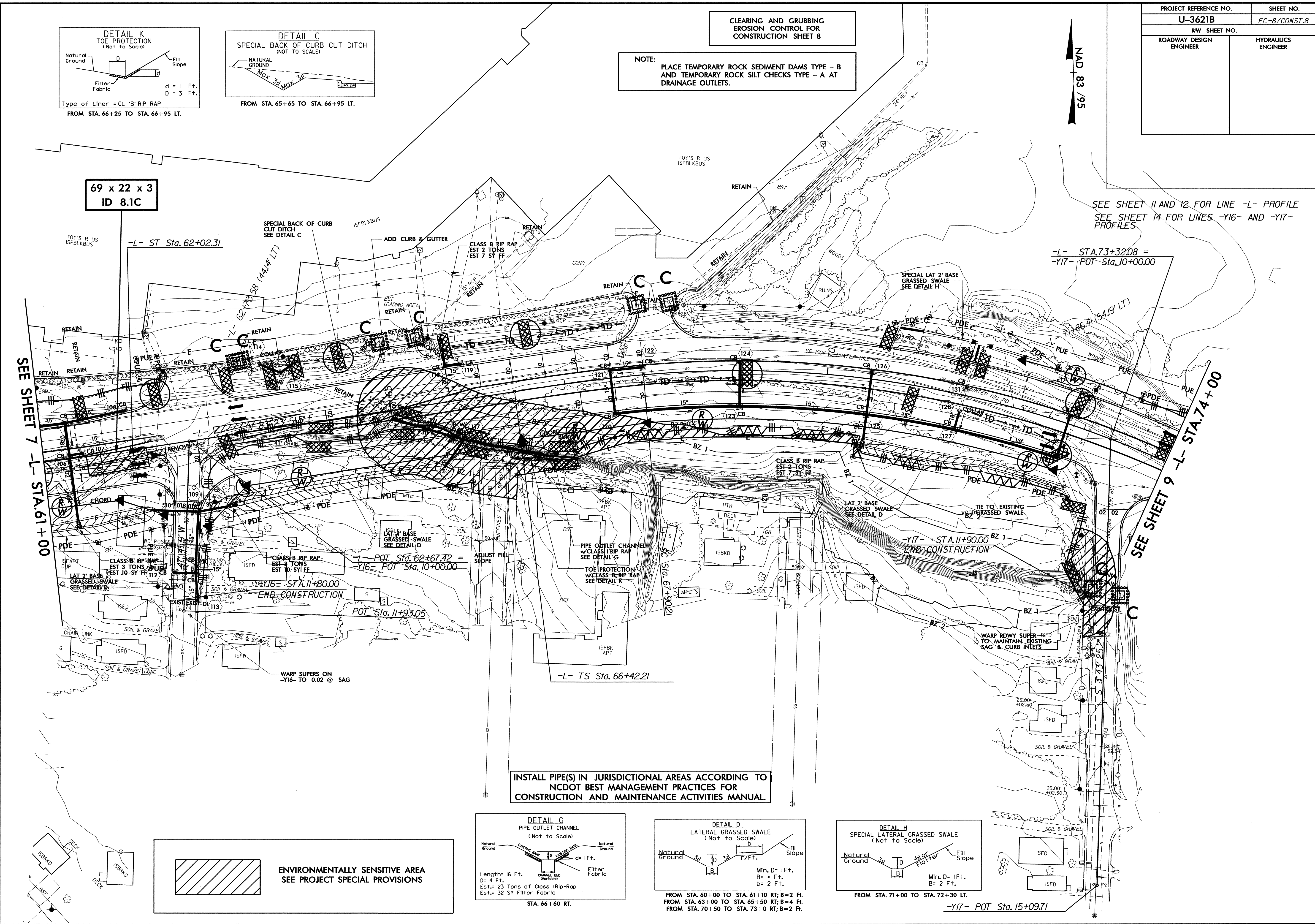
**69 x 22 x 3
ID 8.1C**

SEE SHEET 11 AND 12 FOR LINE -L- PROFILE
SEE SHEET 14 FOR LINES -Y16- AND -Y17-
PROFILES

-L- STA.73+32.08 =
-Y17- POT Sta.10+00.00

SEE SHEET 7 -L- STA.61+00

SEE SHEET 9 -L- STA.74+00



NAD 83 / 95

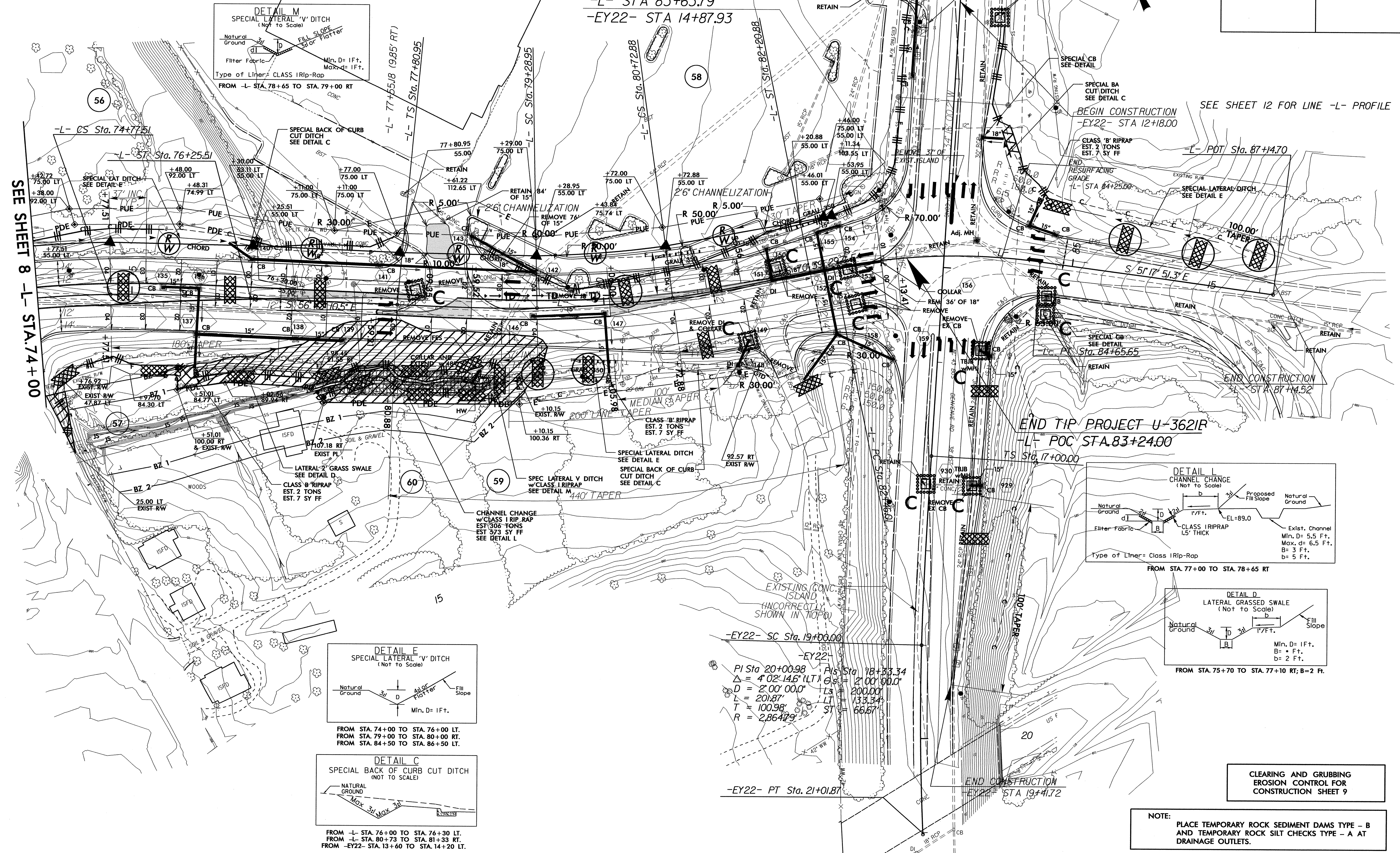
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PROJECT REFERENCE NO. U-3621B	SHEET NO. EC-9/CONST.9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L-

PI Sta 71+43.57 Δ = 32° 48' 58.7" (RT) D = 4' 46' 28.7" L = 687.30' T = 353.36' R = 1,200.00' RO = SEE PLANS	PIs Sta 75+26.86 Θs = 3° 31' 59.7" Ls = 148.00' LT = 98.69' ST = 49.35'	PIs Sta 78+79.64 Θs = 3° 31' 59.7" Ls = 148.00' LT = 98.69' ST = 49.35'	PI Sta 80+01.00 Δ = 6° 52' 19.9" (LT) D = 4' 46' 28.7" L = 143.93' T = 72.05' R = 1,200.00' RO = SEE PLANS	PIs Sta 81+22.23 Θs = 3° 31' 59.7" Ls = 148.00' LT = 98.69' ST = 49.35'	PI Sta 83+56.88 Δ = 19° 21' 38.4" (RT) D = 8' 48' 53.0" L = 219.64' T = 110.88' R = 650.00'
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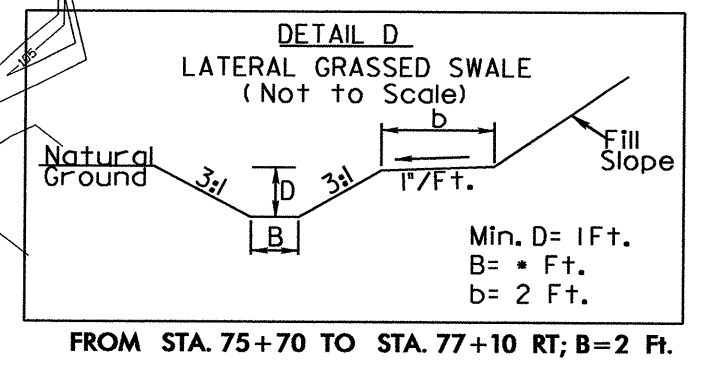
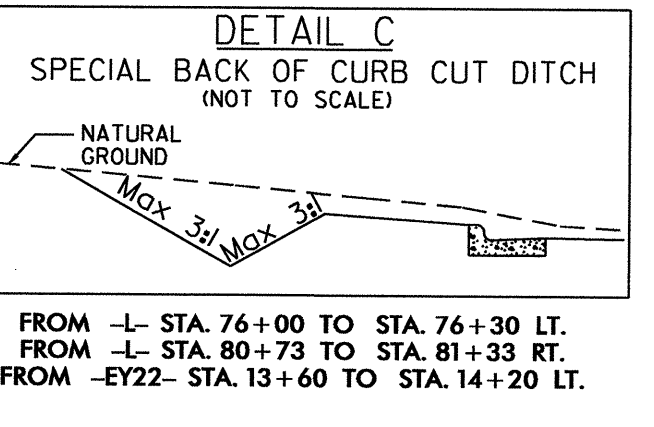
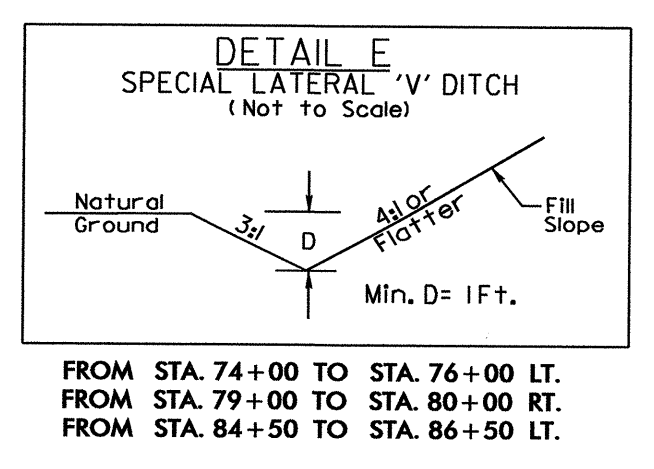
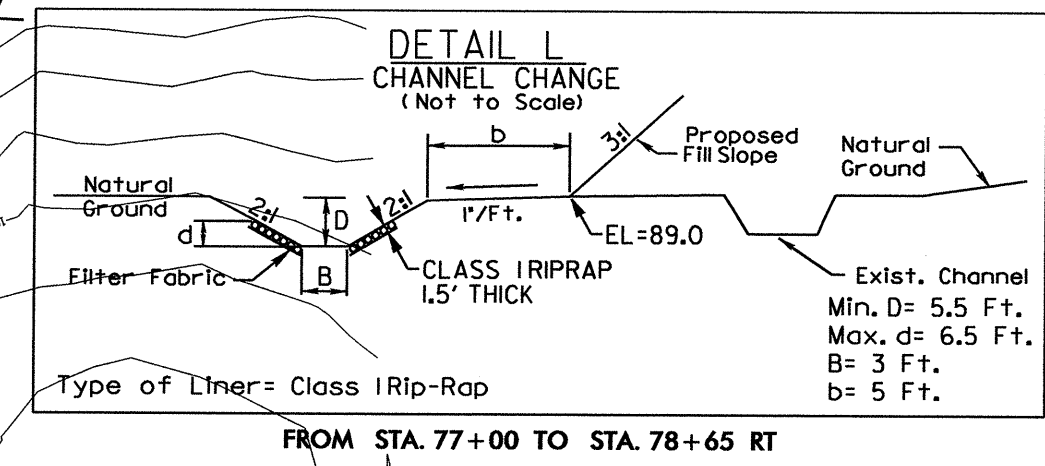
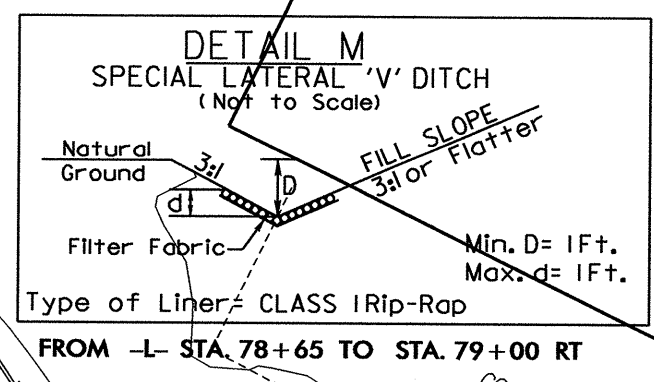
SEE SHEET 8 -L- STA.74+00

SEE SHEET 12 FOR LINE -L- PROFILE

END TIP PROJECT U-3621B
L- POC STA.83+24.00

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 9

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

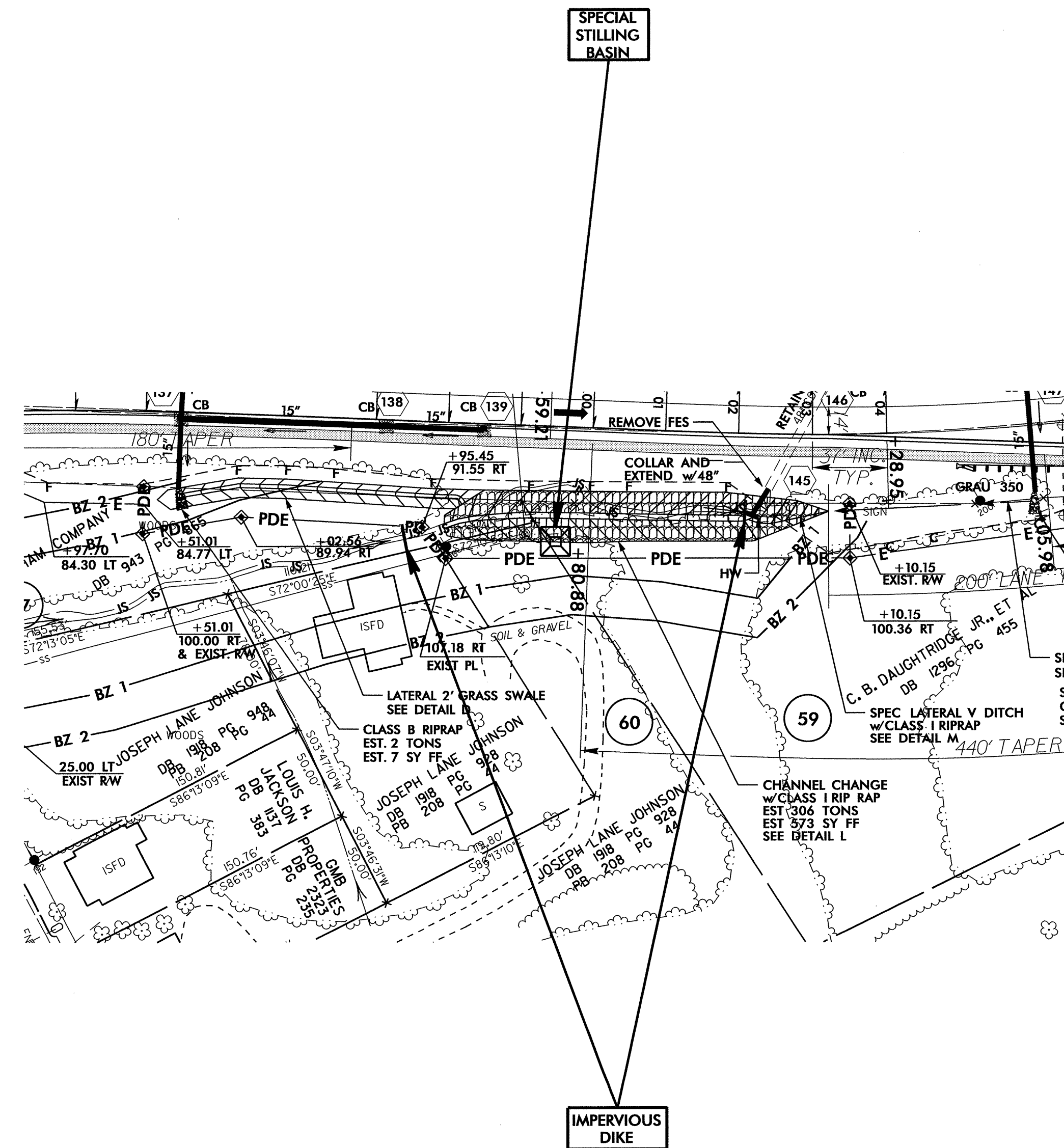


8/17/99
10-NOV-2010 09:53
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User: RAYMOND.BENNETT

CHANNEL CHANGE CONSTRUCTION SEQUENCE STA. 77+00 TO 79+00 -L-

PROJECT REFERENCE NO. U-3621B	SHEET NO. EC-10/CONST.9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

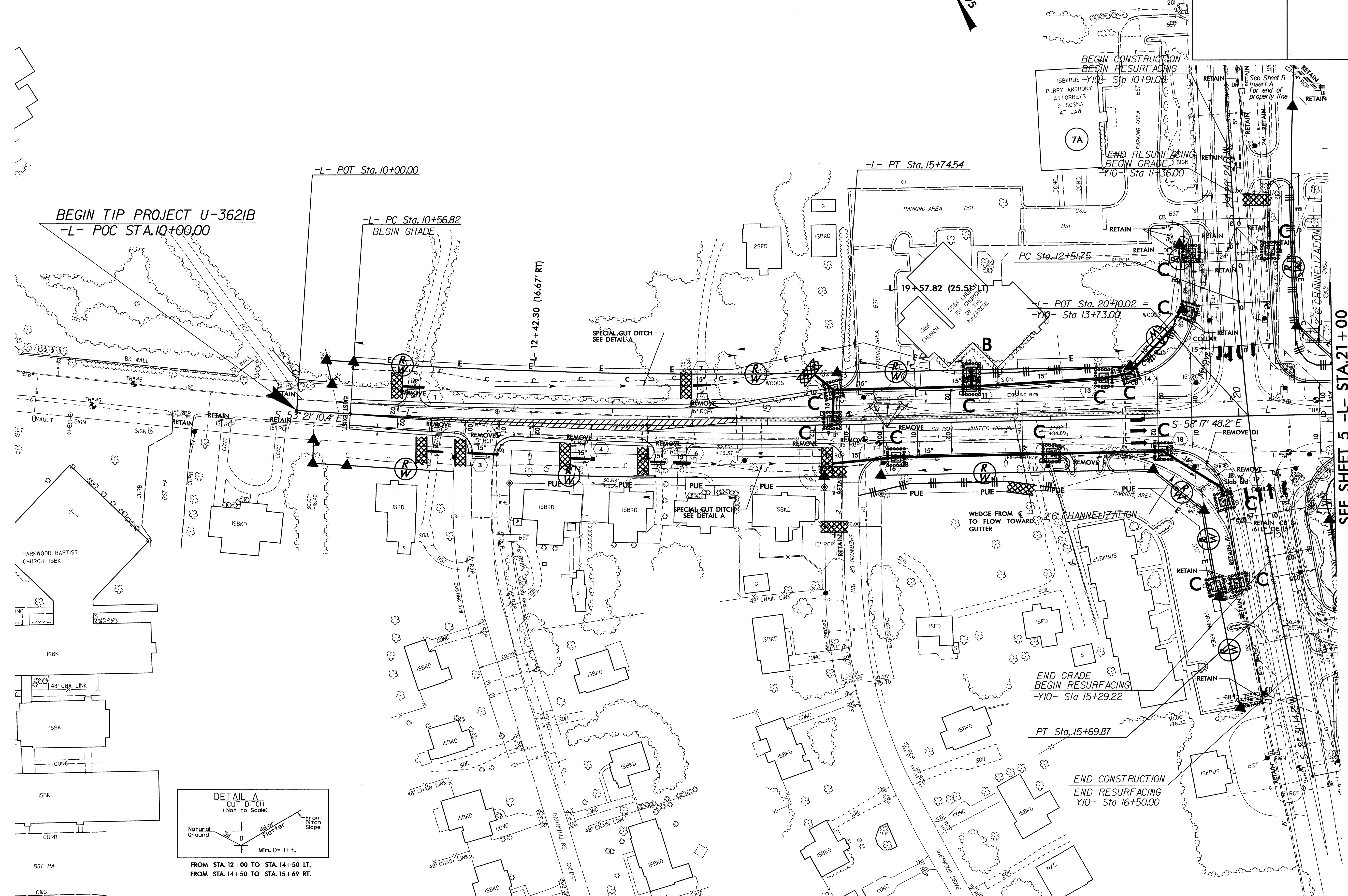
1. INSTALL IMPERVIOUS DIKES.
2. PUMP STREAM AROUND WORK SITE AND INTO EXISTING 48" CONCRETE PIPE.
3. UTILIZE SPECIAL STILLING BASIN(S) TO DEWATER WORK SITE.
4. CONSTRUCT CHANNEL CHANGE WITH CLASS I RIPRAP AND COLLAR AND EXTEND EXISTING 48" CONCRETE PIPE.
5. REMOVE IMPERVIOUS DIKES AND SPECIAL STILLING BASIN(S).
6. DIVERT STREAM INTO CHANNEL CHANGE WITH CLASS I RIPRAP.



8/17/99

SEE SHEET 10 FOR LINE -L- PROFILE
SEE SHEET 13 FOR LINE -Y10- PROFILE

PROJECT REFERENCE NO.		SHEET NO.	
U-3621B		EC-II/CONST.4	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER			



BEGIN TIP PROJECT U-3621B
-L- POC STA. 10+00.00

-L- POT Sta. 10+00.00

-L- PC Sta. 10+56.82
BEGIN GRADE

-L- PT Sta. 15+74.54

BEGIN CONSTRUCTION
BEGIN RESURFACING
-Y10- Sta 10+91.00

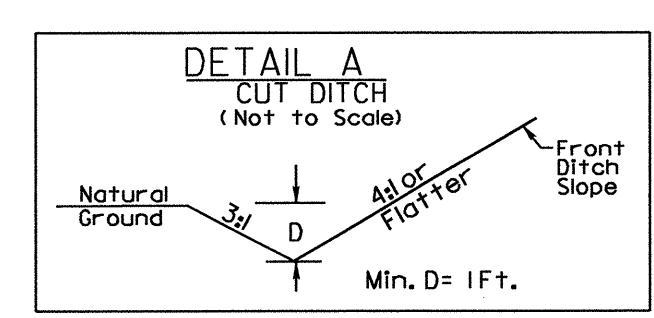
END RESURFACING
BEGIN GRADE
-Y10- Sta 11+36.00

-L- POT Sta. 20+10.02 =
-Y10- Sta 13+73.00

END GRADE
BEGIN RESURFACING
-Y10- Sta 15+29.22

PT Sta. 15+69.87

END CONSTRUCTION
END RESURFACING
-Y10- Sta 16+50.00

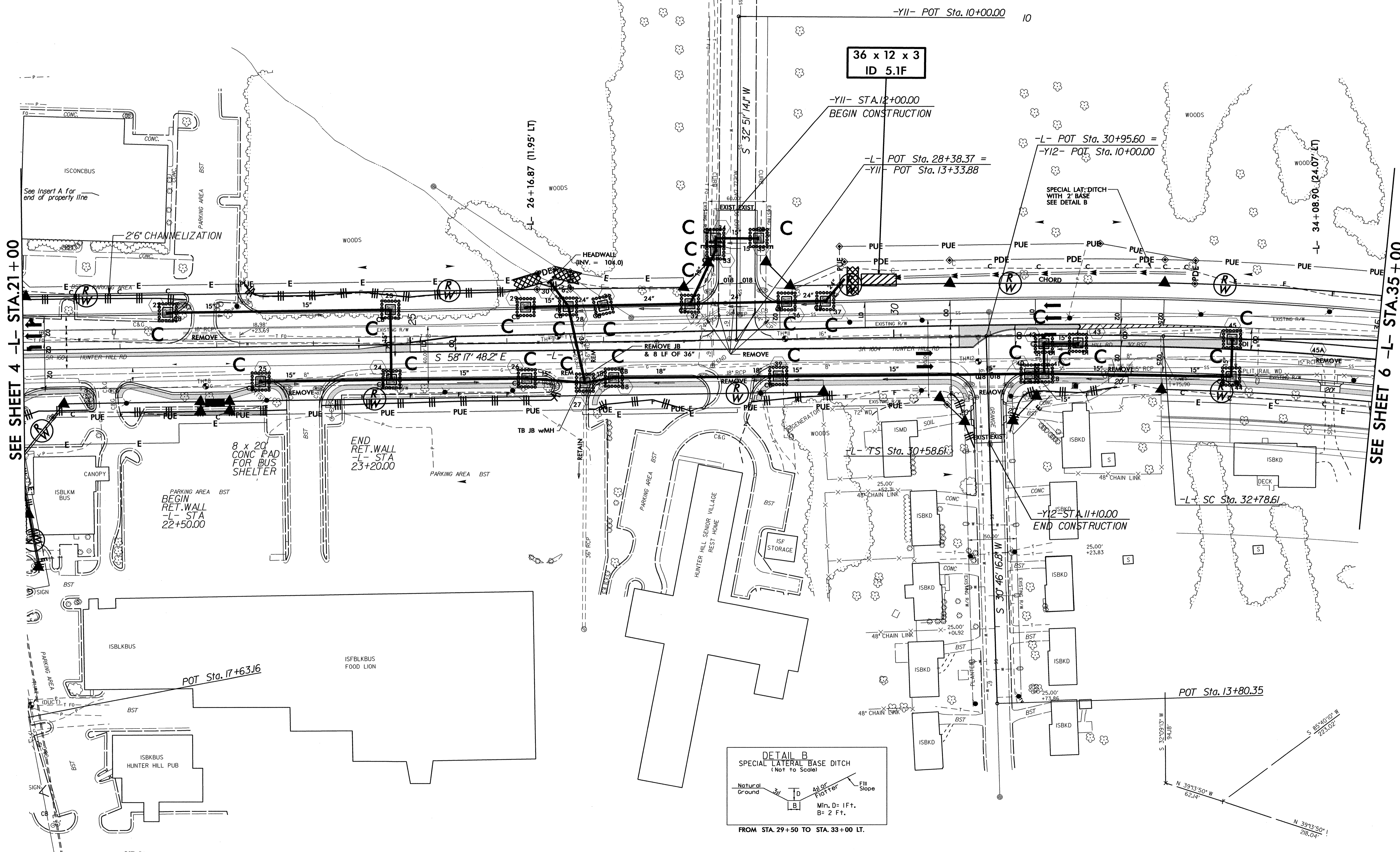
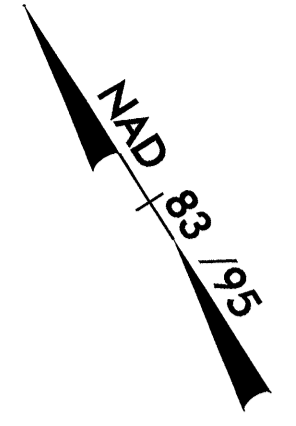


FROM STA. 12+00 TO STA. 14+50 LT.
FROM STA. 14+50 TO STA. 15+69 RT.

SEE SHEET 5 -L- STA. 21+00

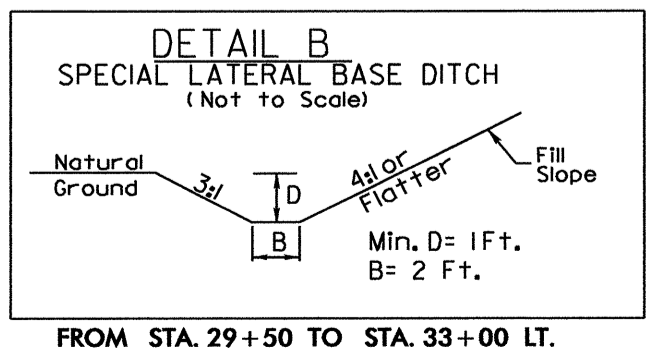
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ALL RIGHTS RESERVED

PROJECT REFERENCE NO.	SHEET NO.
U-3621B	EC-12/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



SEE SHEET 4 -L- STA. 21+00

SEE SHEET 6 -L- STA. 35+00

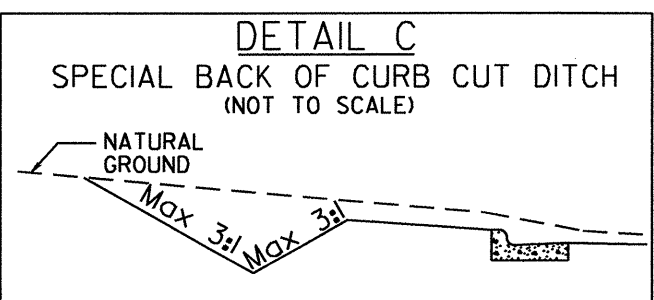


FROM STA. 29+50 TO STA. 33+00 LT.

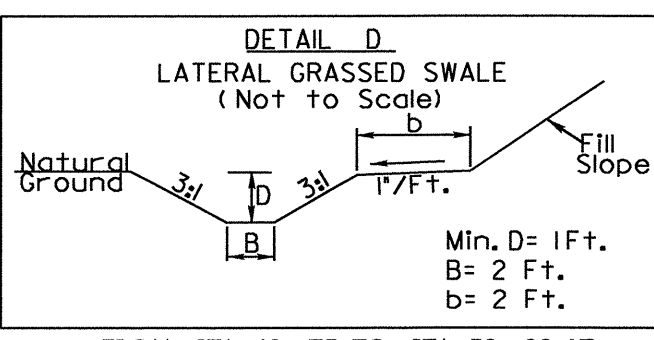
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PROJECT REFERENCE NO.	SHEET NO.
U-3621B	EC-13/CONST.6
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

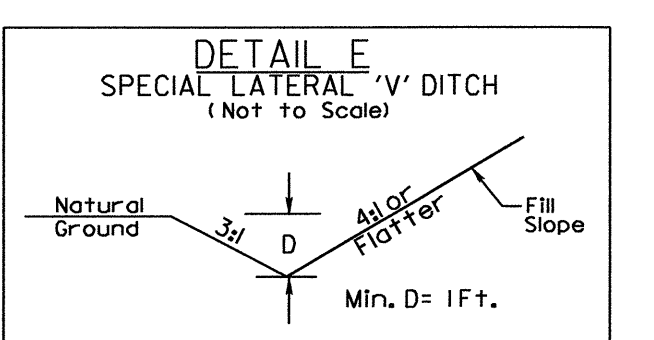
8/17/99



FROM -L- STA. 41+70 TO STA. 42+70 LT.
 FROM -L- STA. 43+85 TO STA. 45+10 LT.
 FROM -Y13- STA. 8+70 TO STA. 10+20 LT.
 FROM -Y13- STA. 14+50 TO STA. 14+90 RT.
 FROM -Y13- STA. 14+70 TO STA. 15+00 LT.



FROM STA. 48+75 TO STA. 50+00 LT



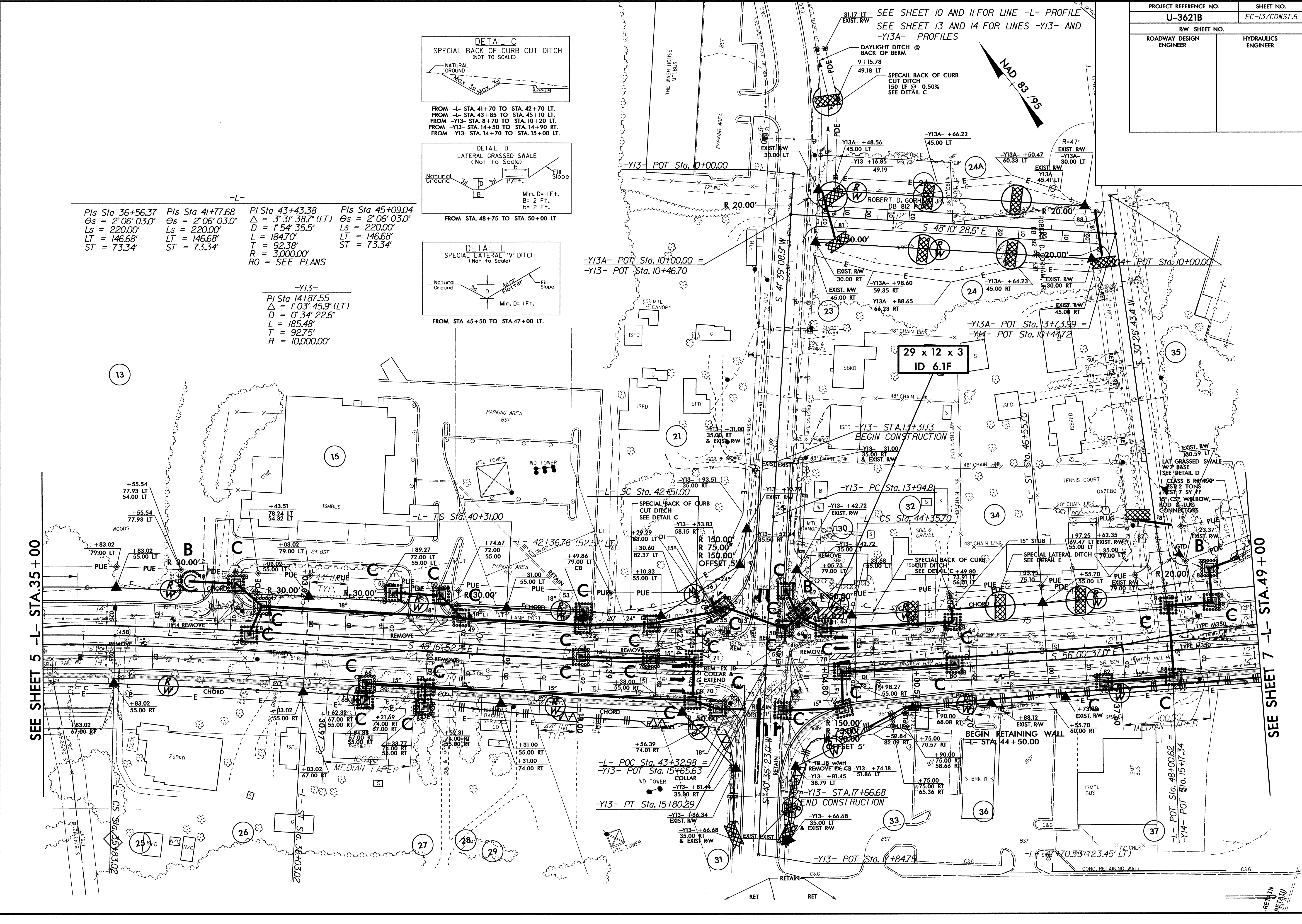
FROM STA. 45+50 TO STA. 47+00 LT.

-L-

PI Sta 36+56.37 Θs = 2° 06' 03.0" Ls = 220.00' LT = 146.68' ST = 73.34'	PI Sta 41+77.68 Θs = 2° 06' 03.0" Ls = 220.00' LT = 146.68' ST = 73.34'	PI Sta 43+43.38 Δ = 3° 31' 38.7" (LT) D = 1° 54' 35.5" L = 184.70' T = 92.38' R = 3,000.00' RO = SEE PLANS	PI Sta 45+09.04 Θs = 2° 06' 03.0" Ls = 220.00' LT = 146.68' ST = 73.34'
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-Y13-

PI Sta 14+87.55 Δ = 1° 03' 45.9" (LT) D = 0° 34' 22.6" L = 185.48' T = 92.75' R = 10,000.00'

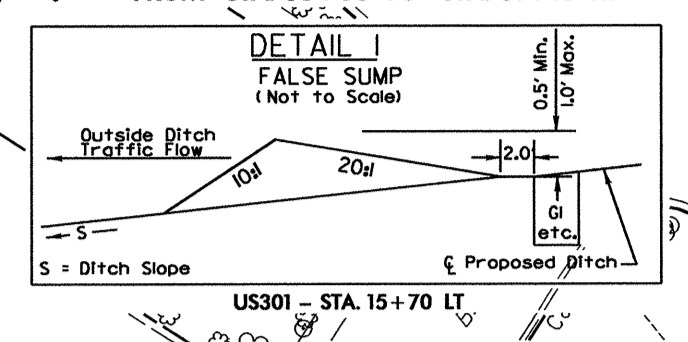
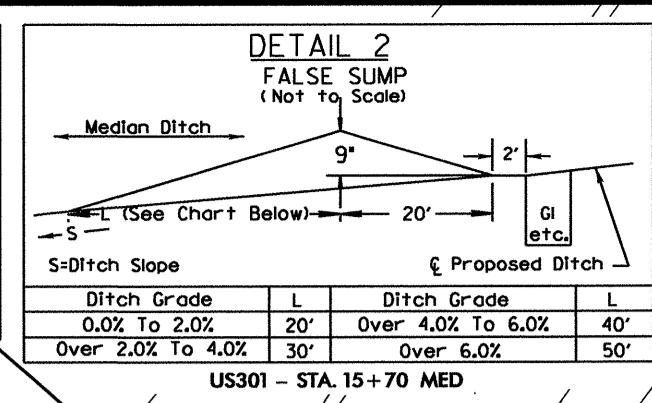
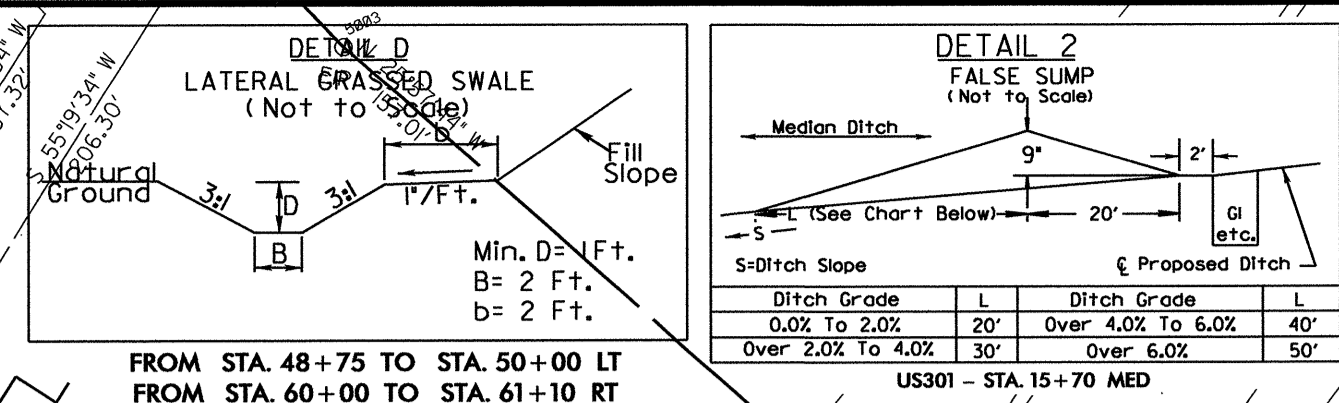
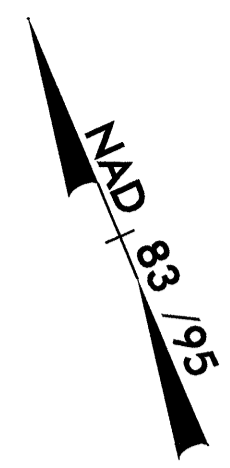


SEE SHEET 5 -L- STA. 35+00

SEE SHEET 7 -L- STA. 49+00

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 2018/09/15 11:34

PROJECT REFERENCE NO. U-3621B	SHEET NO. EC-14/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



57 x 10 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
4 ft. weir
ID 7.2F

BEGIN APPROACH SLAB
-L- STA 49+47.33 LT
-L- STA 49+39.80 RT

END APPROACH SLAB
-L- STA 52+11.72 LT
-L- STA 52+08.20 RT

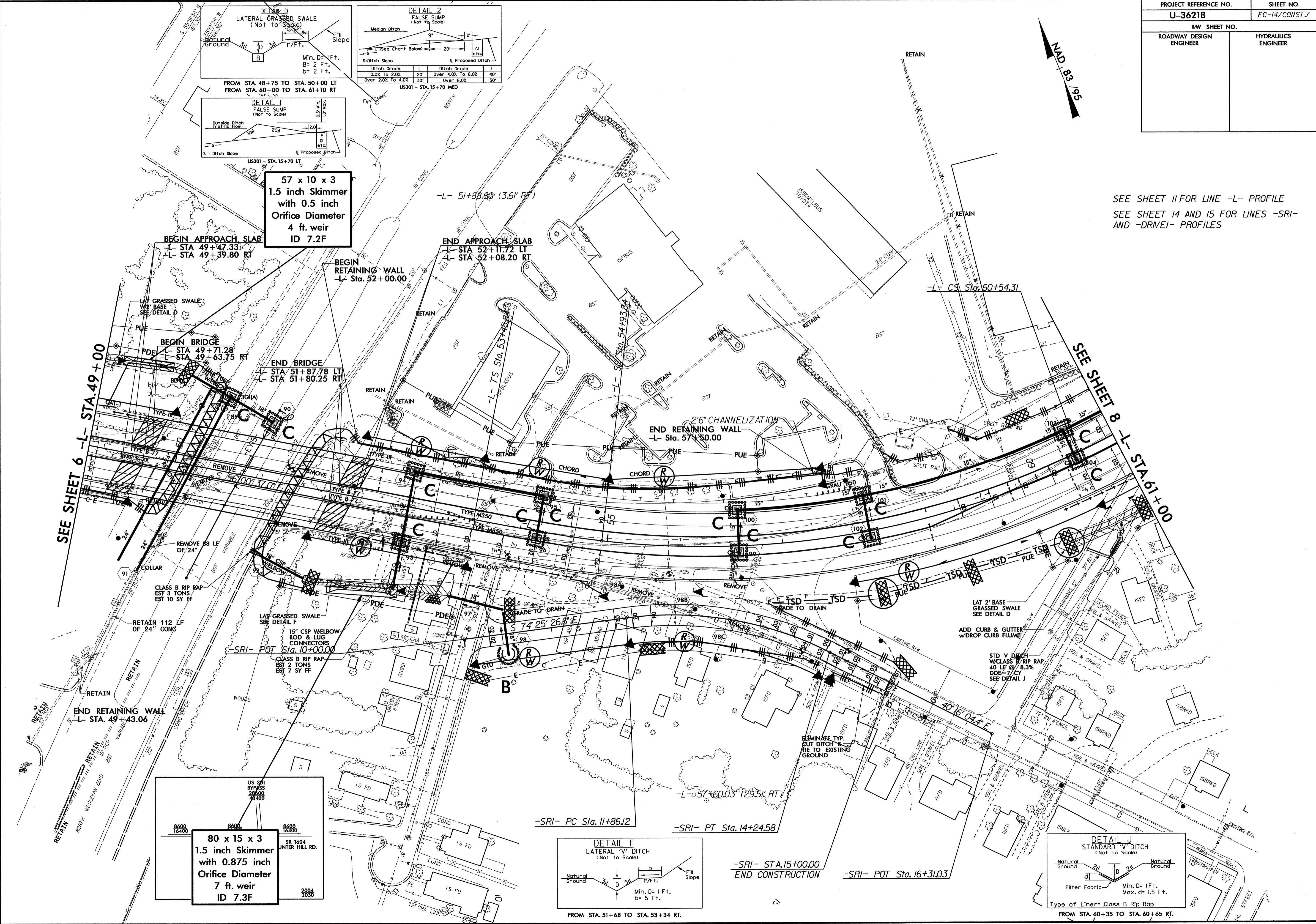
BEGIN RETAINING WALL
-L- Sta. 52+00.00

END BRIDGE
-L- STA 51+87.78 LT
-L- STA 51+80.25 RT

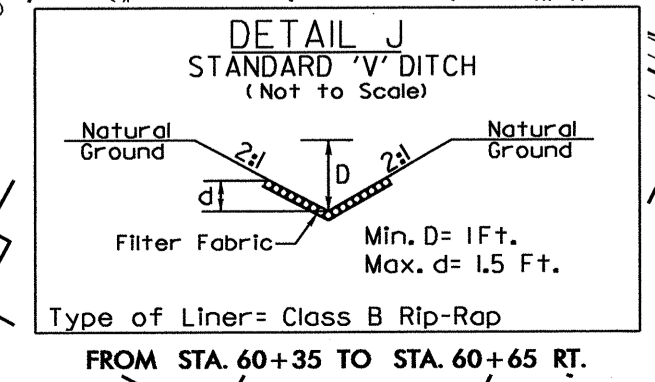
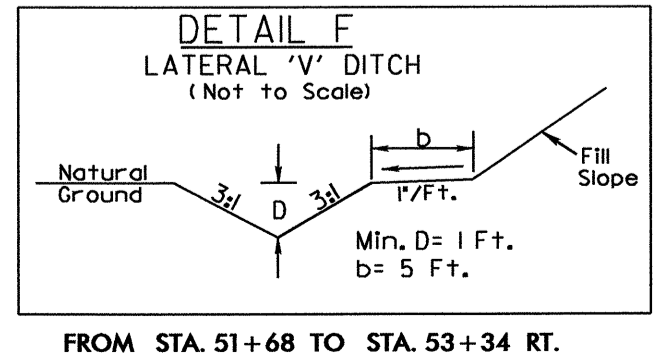
END RETAINING WALL
-L- Sta. 57+50.00

SEE SHEET 6 -L- STA.49+00

SEE SHEET 8 -L- STA.61+00



80 x 15 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
7 ft. weir
ID 7.3F

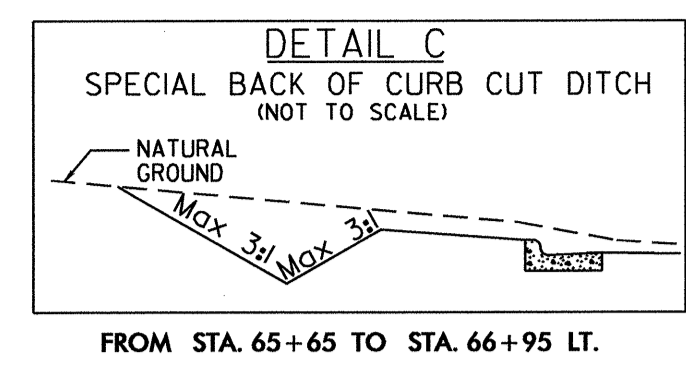
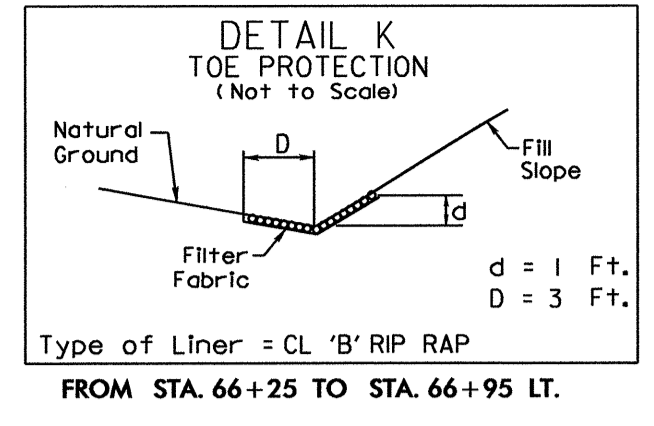


REVISIONS

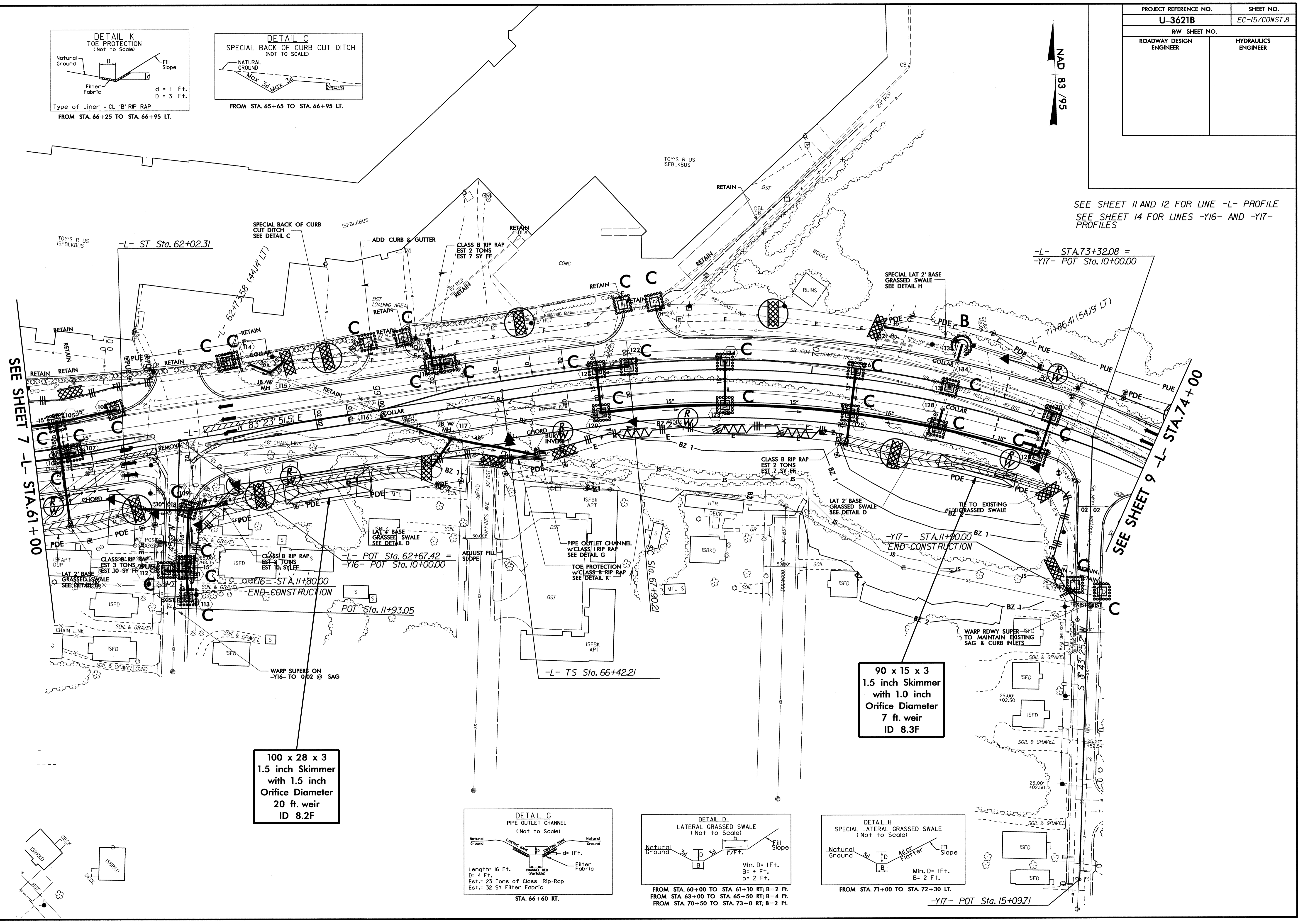
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PROJECT REFERENCE NO.	SHEET NO.
U-3621B	EC-15/CONST.8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83 /95



8/17/99
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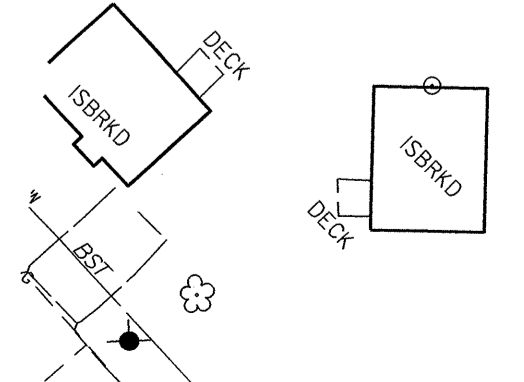
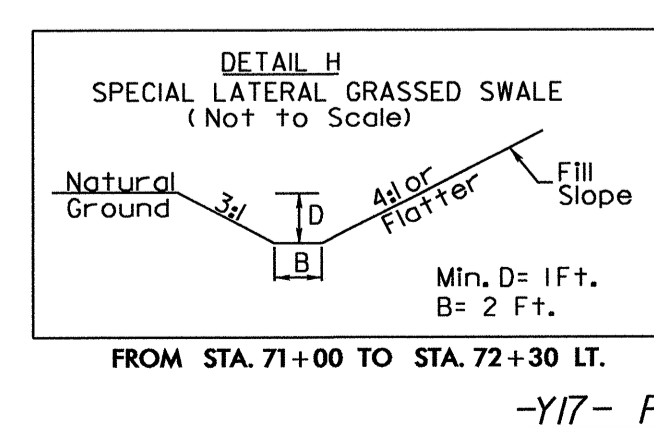
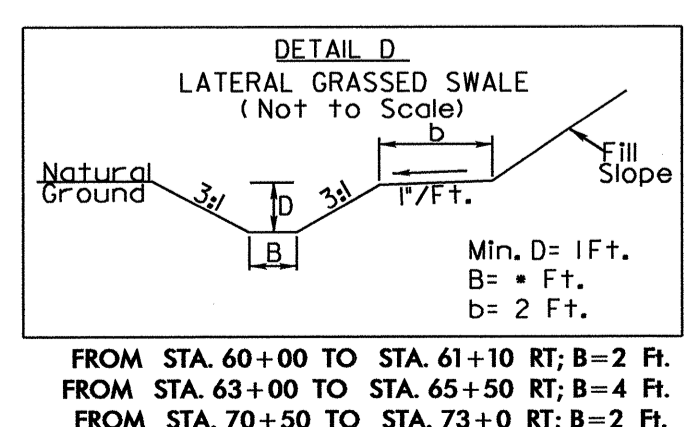
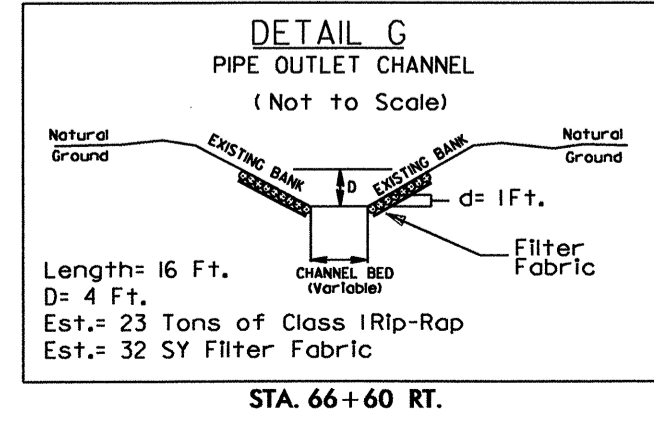
SEE SHEET 11 AND 12 FOR LINE -L- PROFILE
SEE SHEET 14 FOR LINES -Y16- AND -Y17- PROFILES

SEE SHEET 7 -L- STA. 61+00

SEE SHEET 9 -L- STA. 74+00

**100 x 28 x 3
1.5 inch Skimmer
with 1.5 inch
Orifice Diameter
20 ft. weir
ID 8.2F**

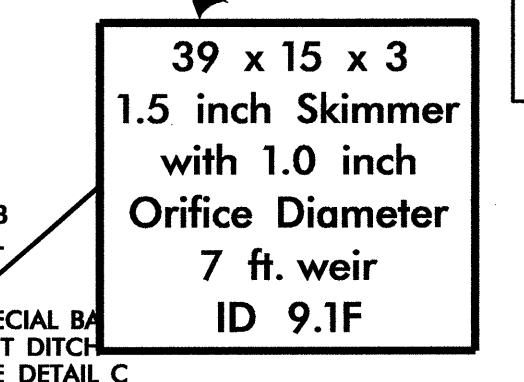
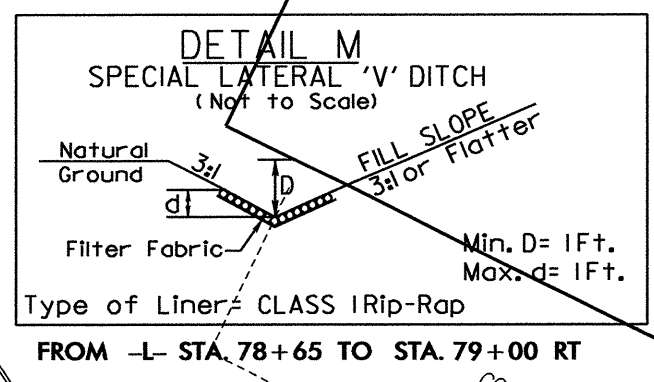
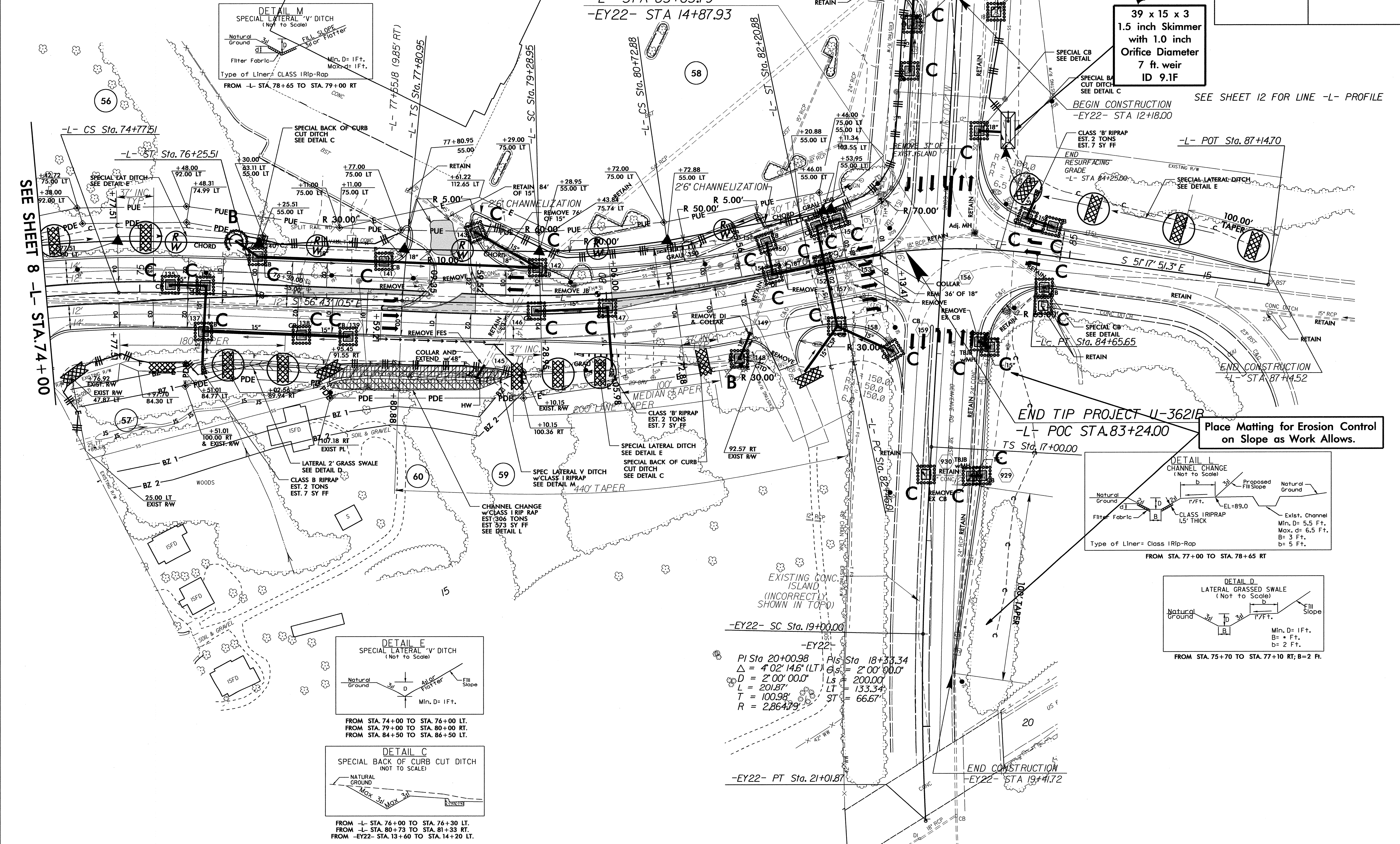
**90 x 15 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
7 ft. weir
ID 8.3F**



PROJECT REFERENCE NO.	SHEET NO.
U-3621B	EC-16/CONST.9
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L-

PI Sta 71+43.57 Δ = 32' 48" 58.7" (RT) D = 4' 46" 28.7" L = 687.30' T = 353.36' R = 1,200.00' RO = SEE PLANS	PIs Sta 75+26.86 Os = 3' 31" 59.7" Ls = 148.00' LT = 98.69' ST = 49.35'	PIs Sta 78+79.64 Os = 3' 31" 59.7" Ls = 148.00' LT = 98.69' ST = 49.35'	PI Sta 80+01.00 Δ = 6' 52" 19.9" (LT) D = 4' 46" 28.7" L = 143.93' T = 72.05' R = 1,200.00' RO = SEE PLANS	PIs Sta 81+22.23 Os = 3' 31" 59.7" Ls = 148.00' LT = 98.69' ST = 49.35'	PI Sta 83+56.88 Δ = 19' 21" 38.4" (RT) D = 8' 48" 53.0" L = 219.64' T = 110.88' R = 650.00'
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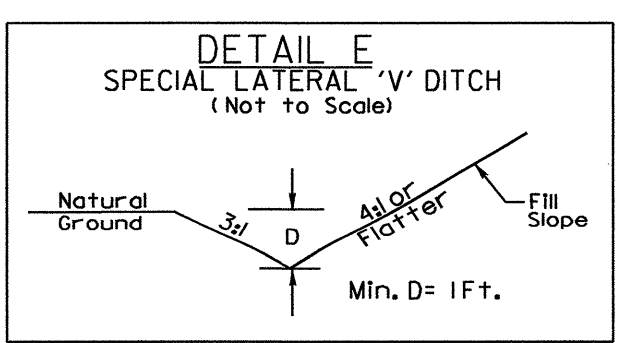
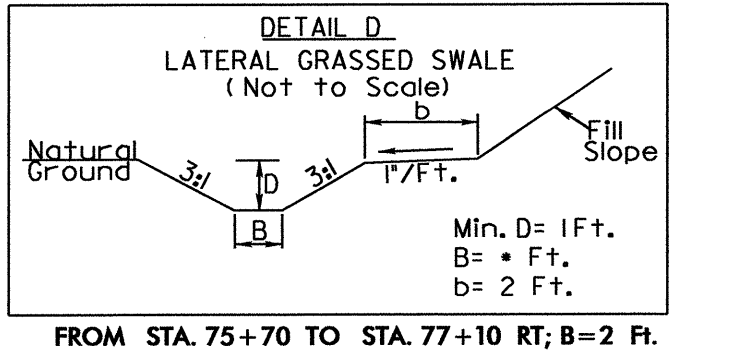
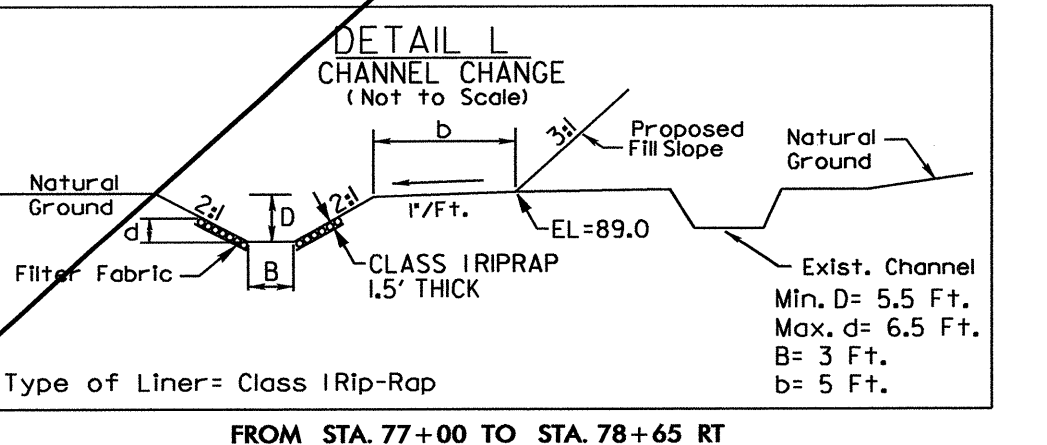


SEE SHEET 12 FOR LINE -L- PROFILE

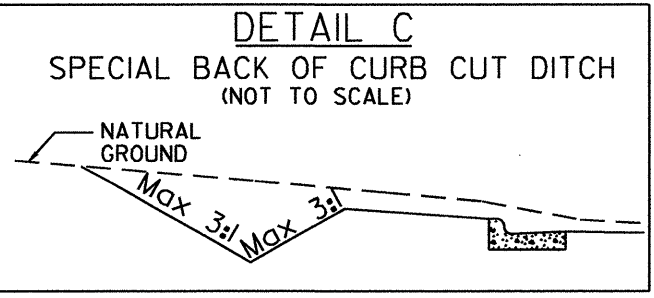
SEE SHEET 8 -L- STA. 74+00

END TIP PROJECT U-3621B

Place Matting for Erosion Control on Slope as Work Allows.



FROM STA. 74+00 TO STA. 76+00 LT.
FROM STA. 79+00 TO STA. 80+00 RT.
FROM STA. 84+50 TO STA. 86+50 LT.



FROM -L- STA. 76+00 TO STA. 76+30 LT.
FROM -L- STA. 80+73 TO STA. 81+33 RT.
FROM -EY22- STA. 13+60 TO STA. 14+20 LT.

-EY22-
PI Sta 20+00.98
Δ = 4' 02" 14.6" (LT)
D = 2' 00" 00.0"
L = 201.87'
T = 100.98'
R = 2,864.79'

PIs Sta 18+33.34
Os = 2' 00" 00.0"
Ls = 200.00'
LT = 133.34'
ST = 66.67'

-EY22- PT Sta. 21+01.87

END CONSTRUCTION - EY22 - STA 19+41.72

8/17/99
10-NOV-2010 09:54
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