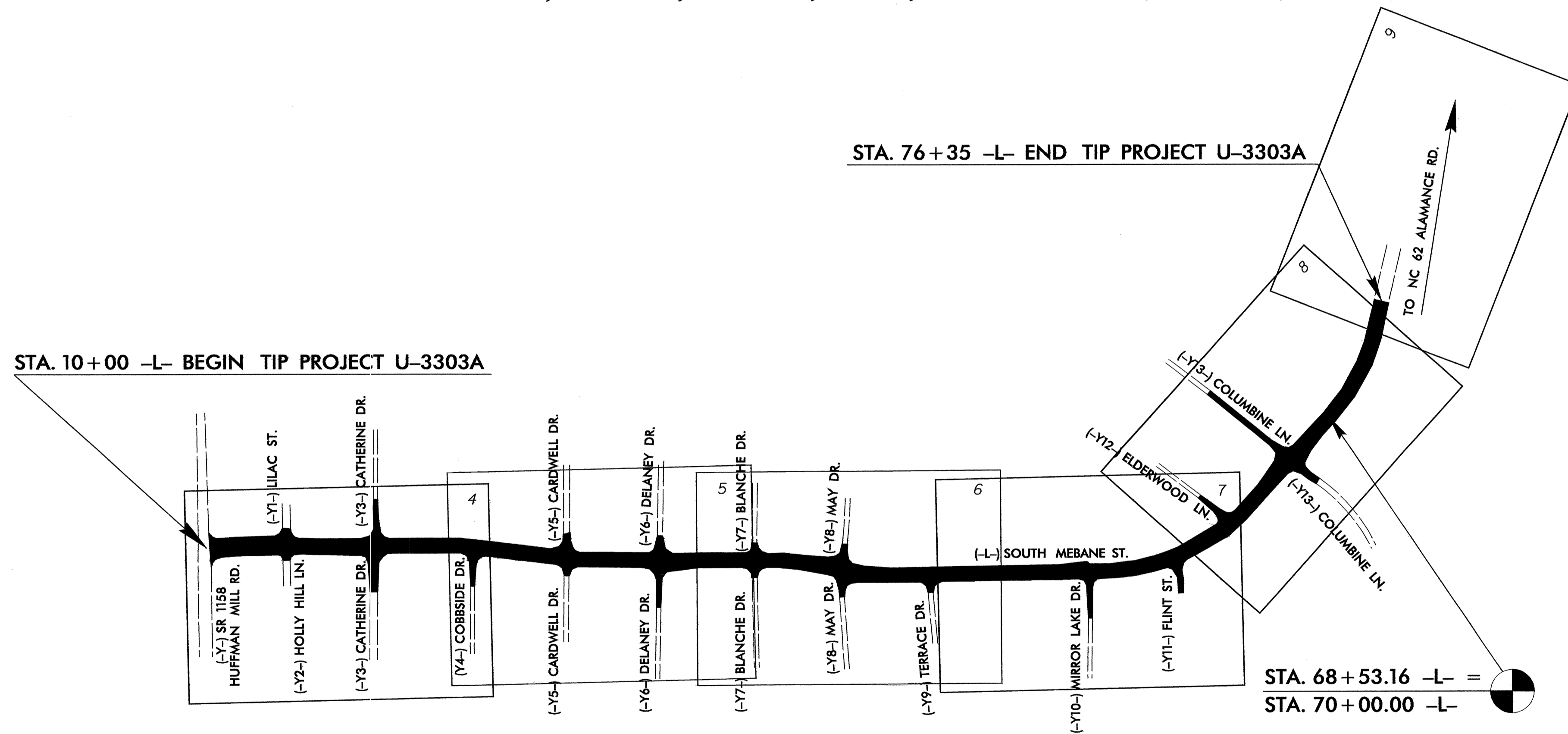
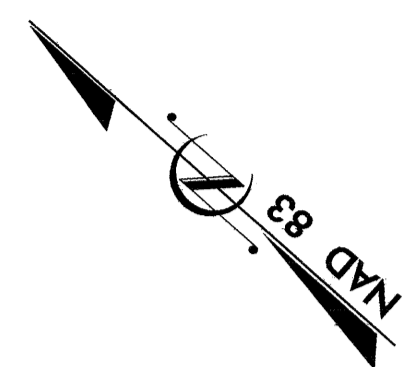


TIP PROJECT: U-3303A

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

ALAMANCE COUNTY

LOCATION: BURLINGTON - SR 1306 (SOUTH MEBANE ST.) FROM SR 1158 (HUFFMAN MILL RD.) TO NC 62 (ALAMANCE RD.)
TYPE OF WORK: GRADING, DRAINAGE, WIDENING, PAVING, CURB & GUTTER, SIDEWALK, SIGNALS, AND SIGNING



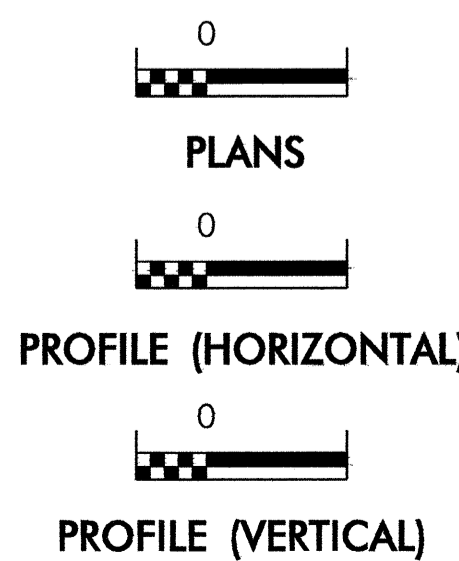
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-3303A	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TS
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	—○—
1630.01	Riser Basin	○
	Silt Basin Type B	▨
1633.01	Temporary Rock Silt Check Type-A	▩
	Temporary Rock Silt Check Type-B	▶
	Wattle	—○—
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.**

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

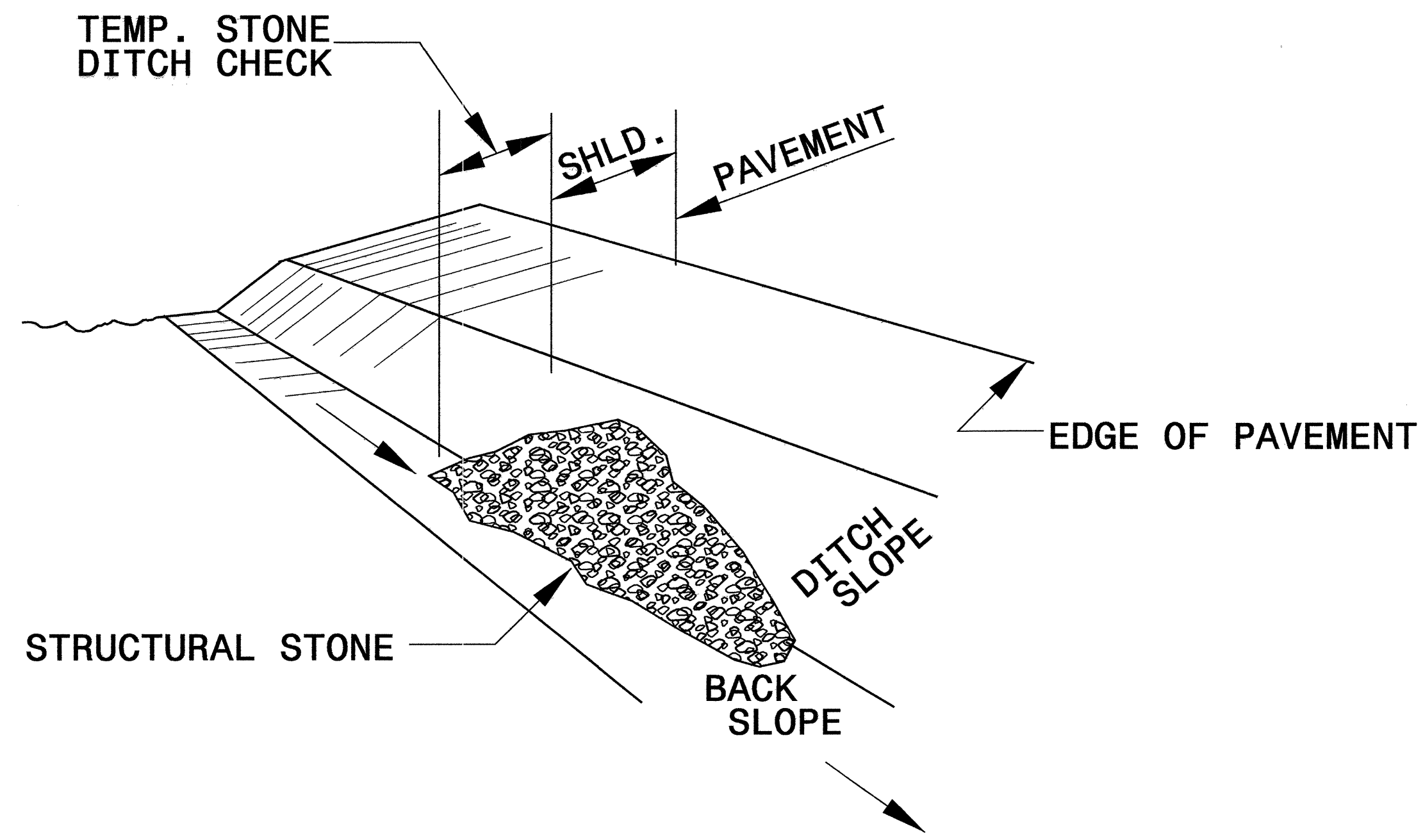
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence	1632.01 Rock Inlet Sediment Trap Type A
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
1630.05 Temporary Diversion	1633.01 Temporary Rock Silt Check Type A
	1635.02 Rock Pipe Inlet Sediment Trap Type B

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REVISED 2/2008
ec-tsh-056126.sh

PROJECT REFERENCE NO. U-3303A	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

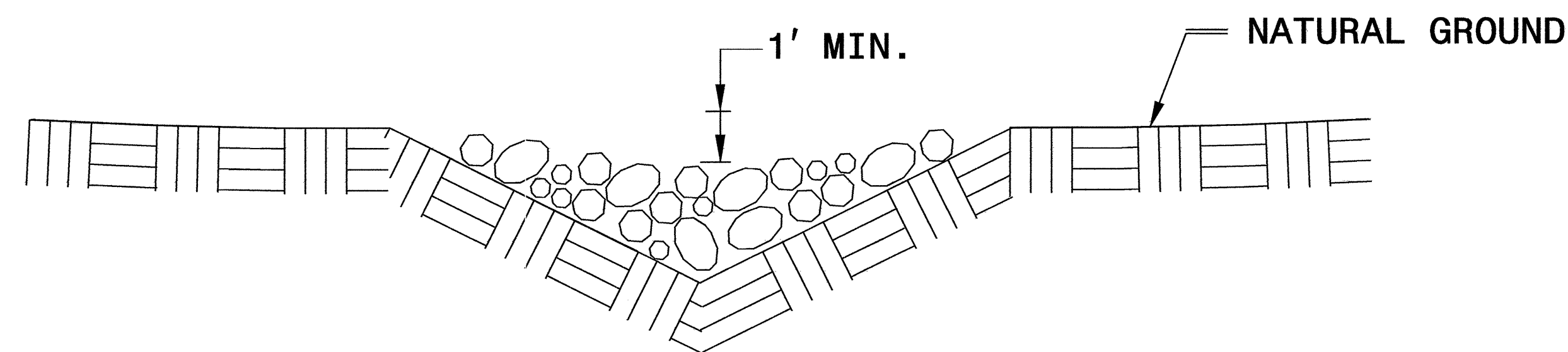


ISOMETRIC VIEW

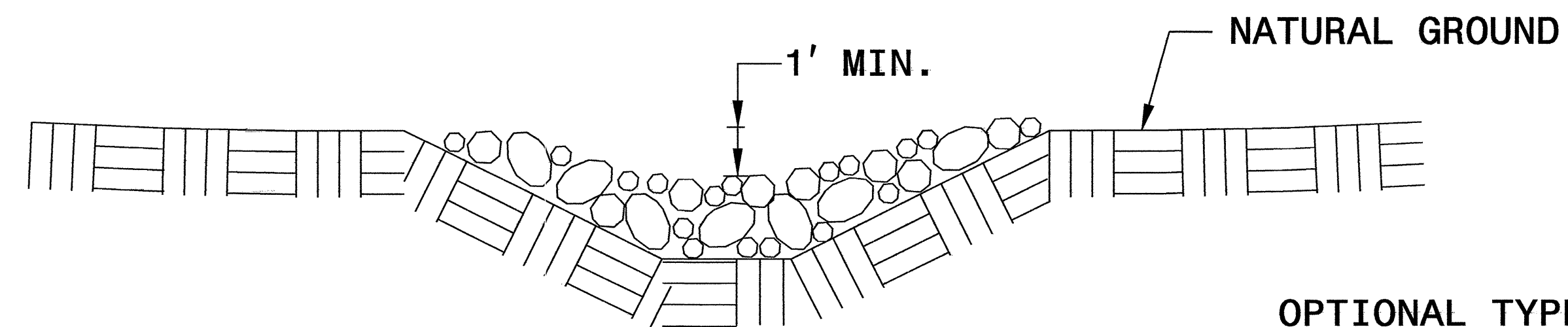
NOTES:

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

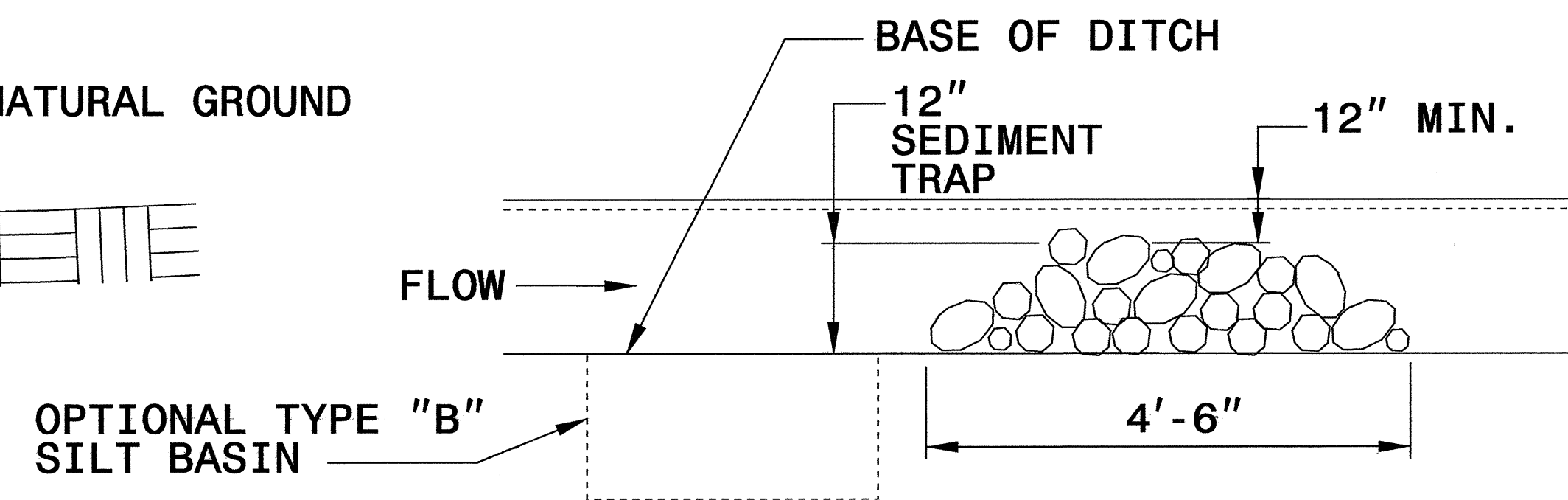
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



**CROSS SECTION
VEE DITCH**



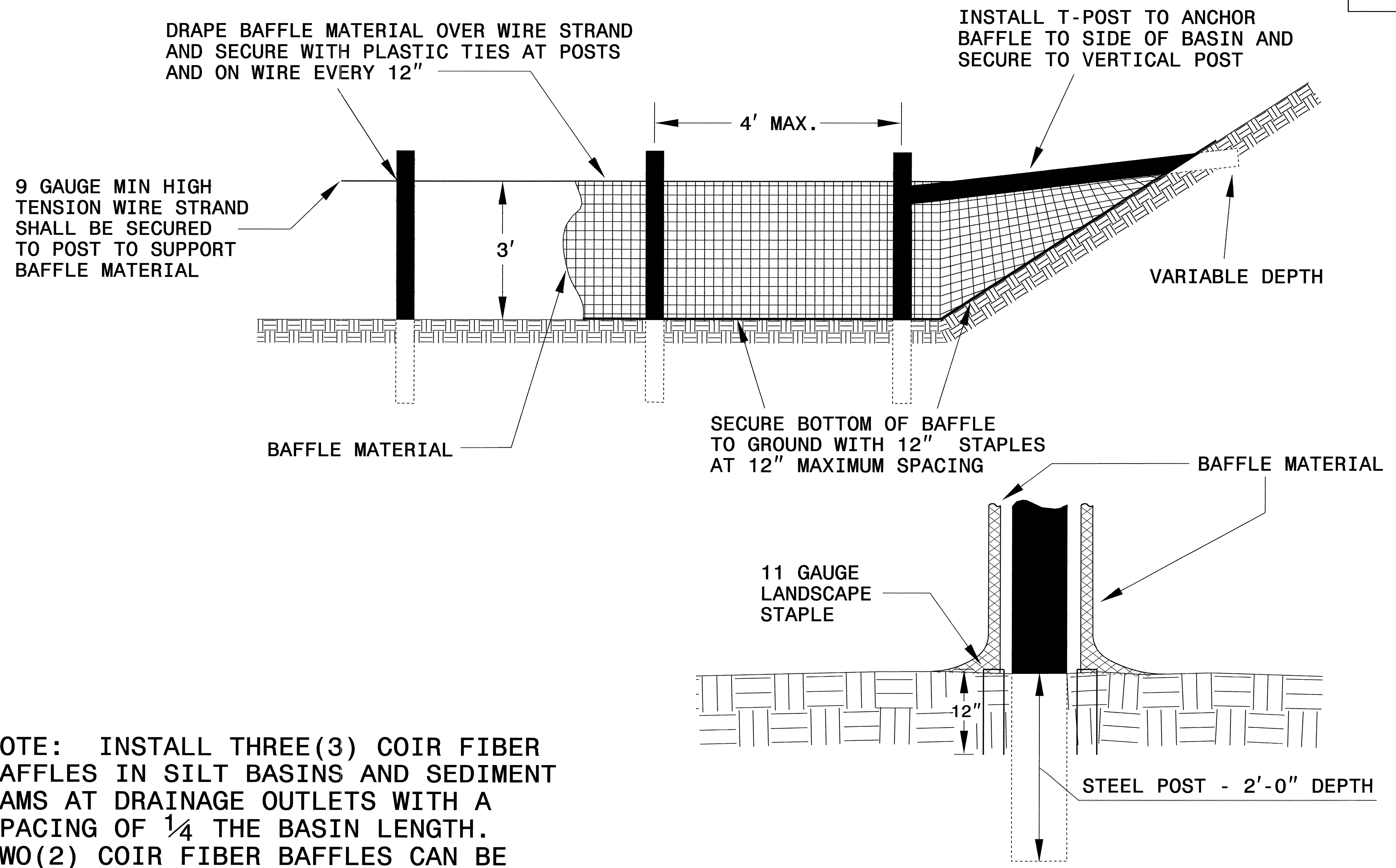
**CROSS SECTION
TRAPEZOIDAL DITCH**



ELEVATION VIEW

PROJECT REFERENCE NO. U-3303A	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL

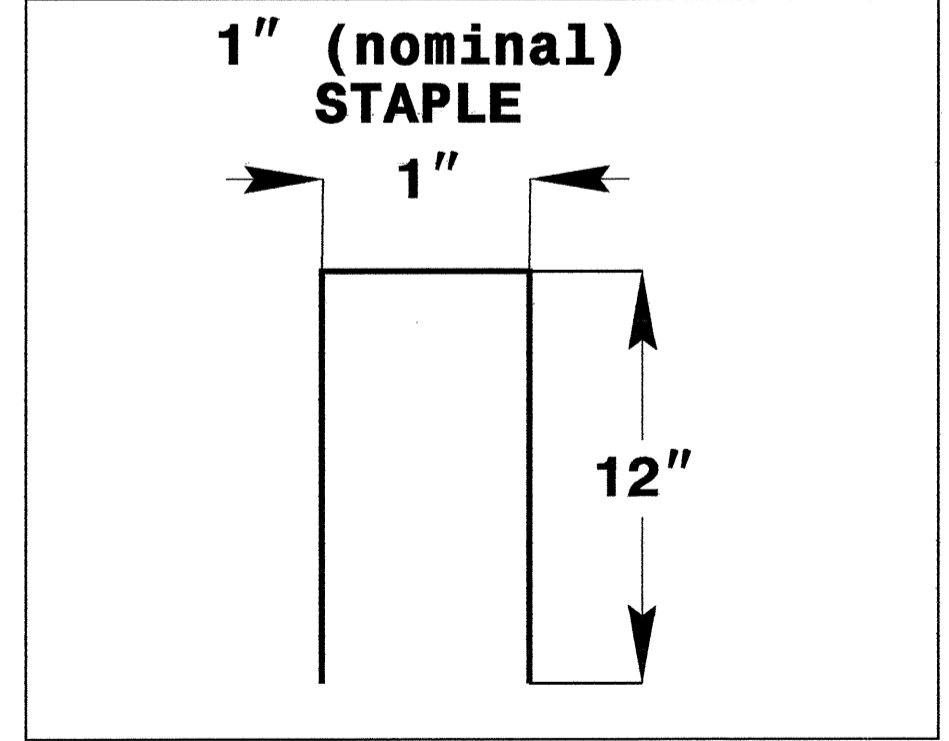
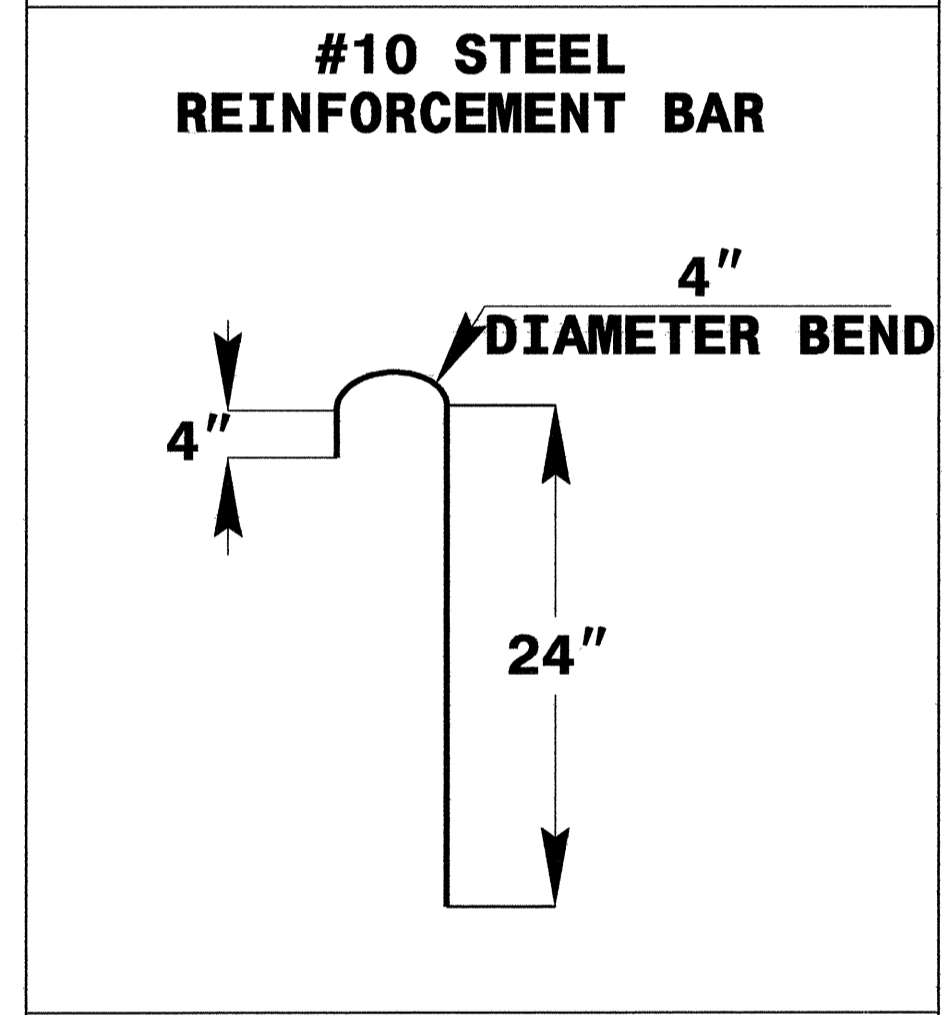
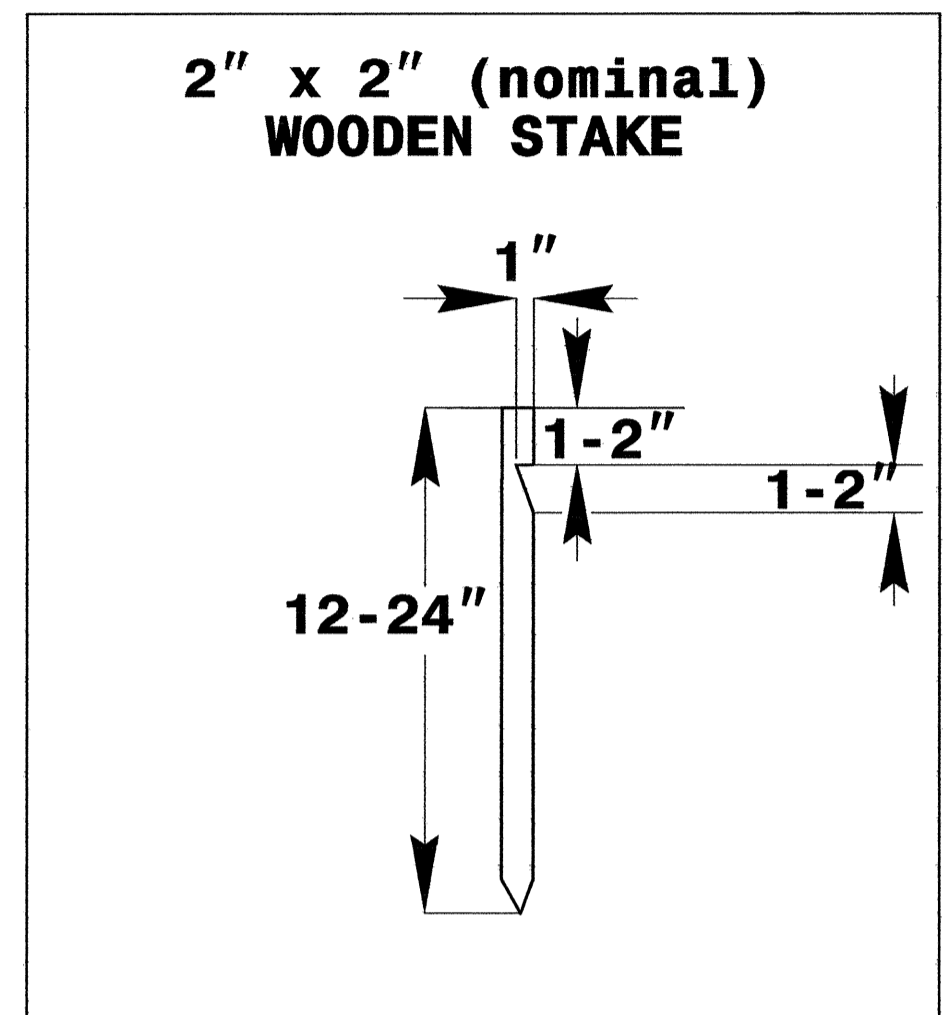
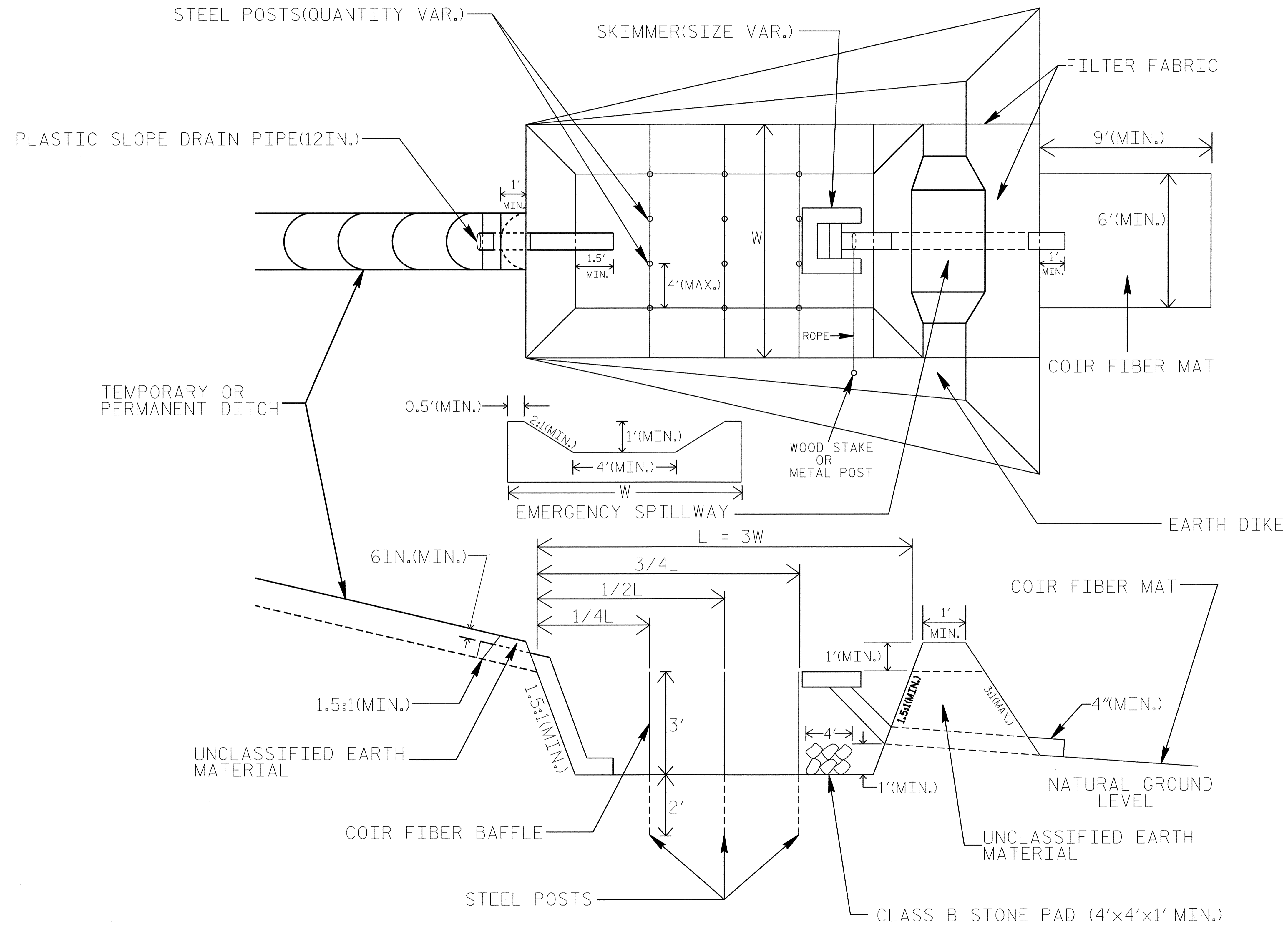


NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF $\frac{1}{4}$ THE BASIN LENGTH. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF $\frac{1}{3}$ THE BASIN LENGTH.

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-3303A	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



COIR FIBER MAT ANCHOR OPTIONS

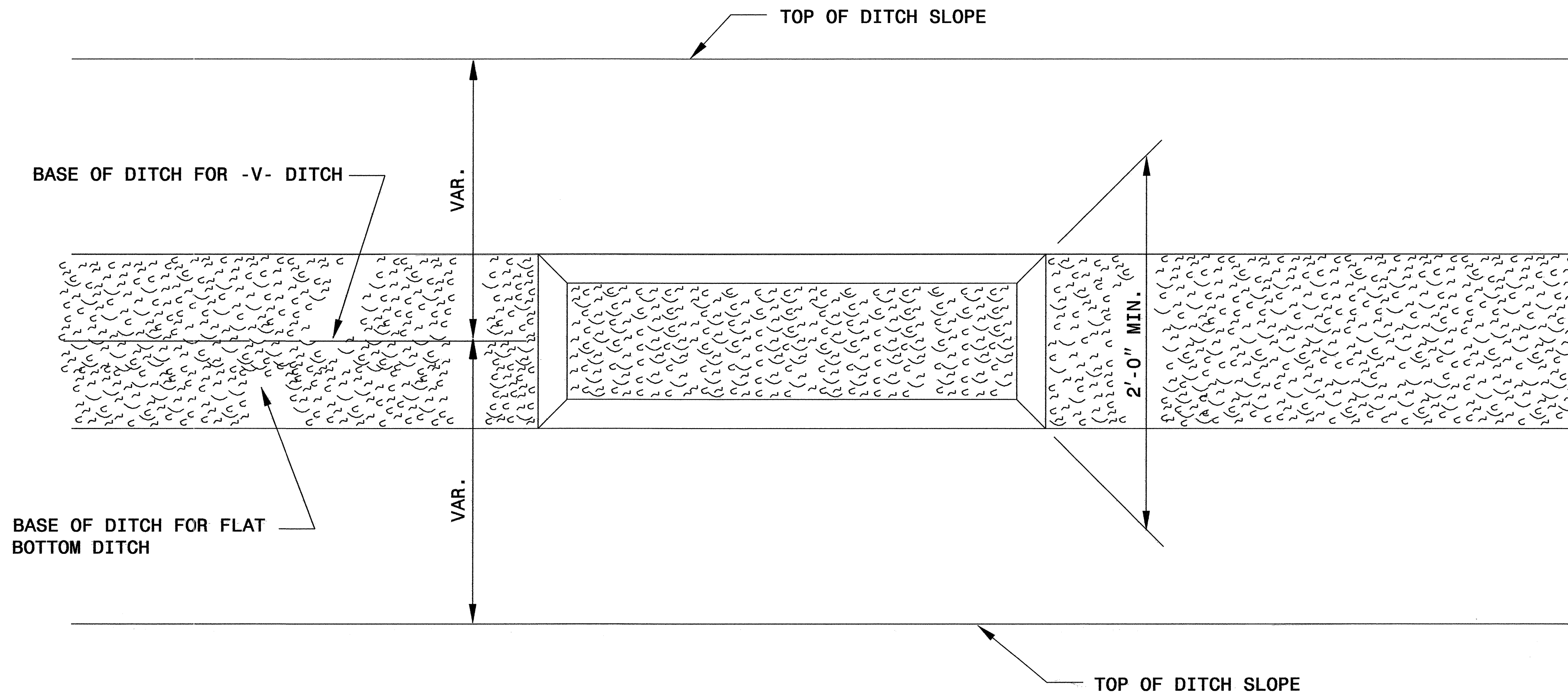
NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
3. 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.

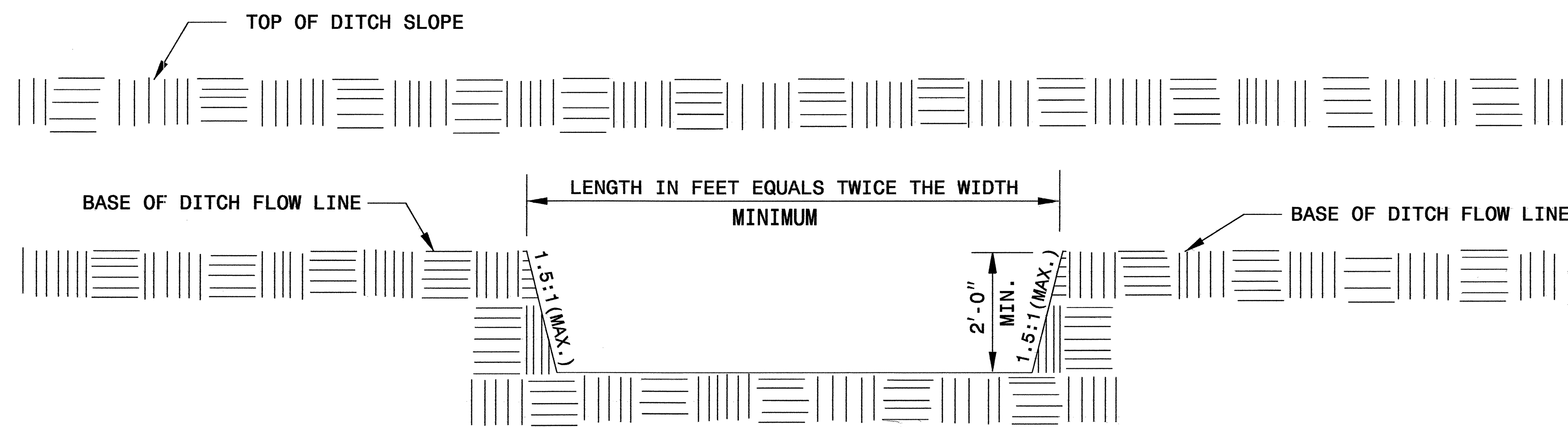
NOT TO SCALE

PROJECT REFERENCE NO. <i>U-3303A</i>	SHEET NO. <i>EC-2C</i>
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SILT BASIN 'B' DETAIL



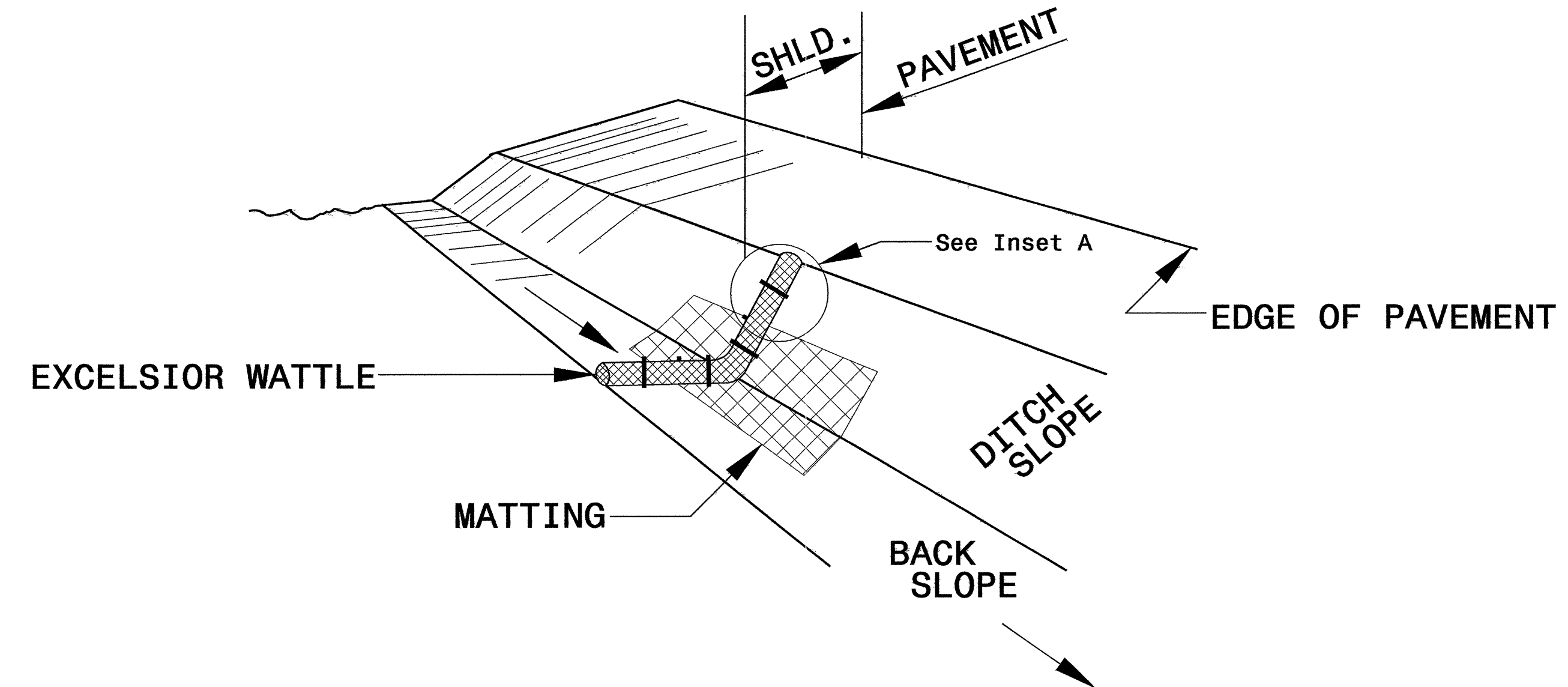
PLAN



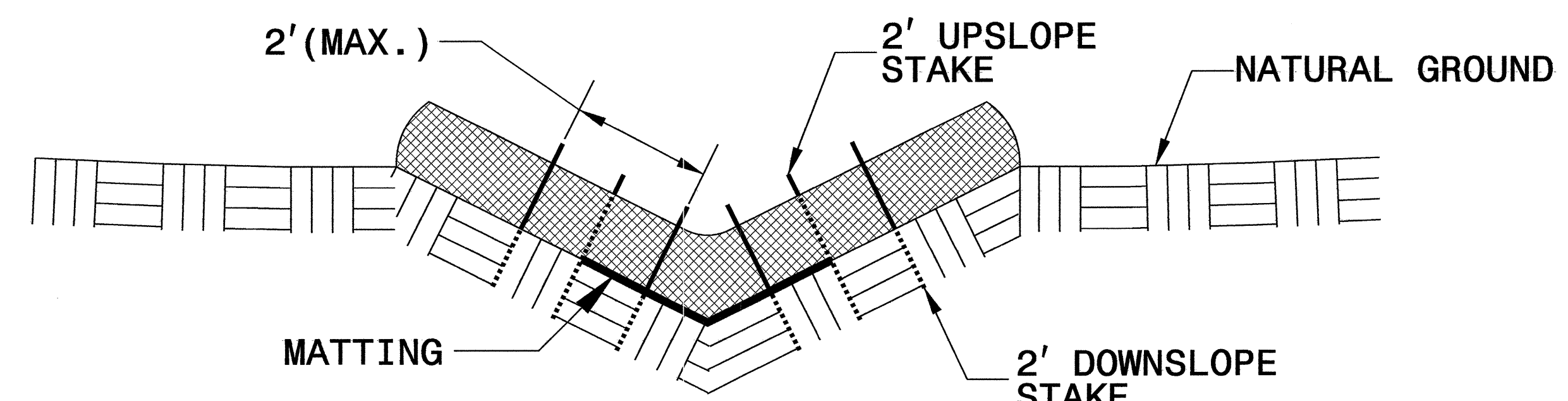
ELEVATION

PROJECT REFERENCE NO. U-3303A	SHEET NO. EC-2D
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

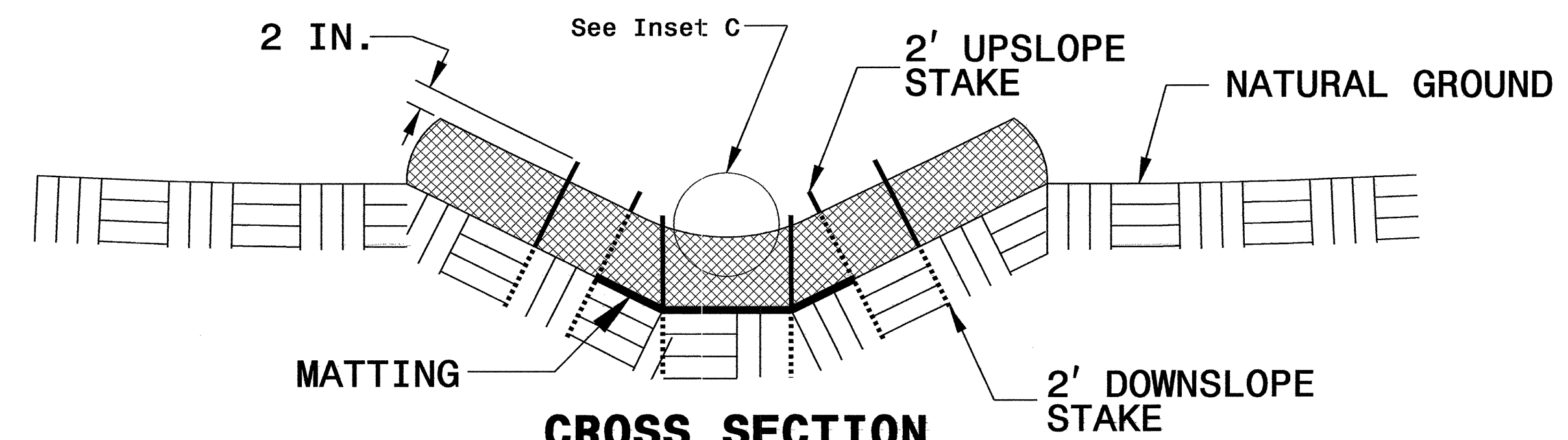
WATTLE WITH POLYACRYLAMIDE DETAIL



ISOMETRIC VIEW



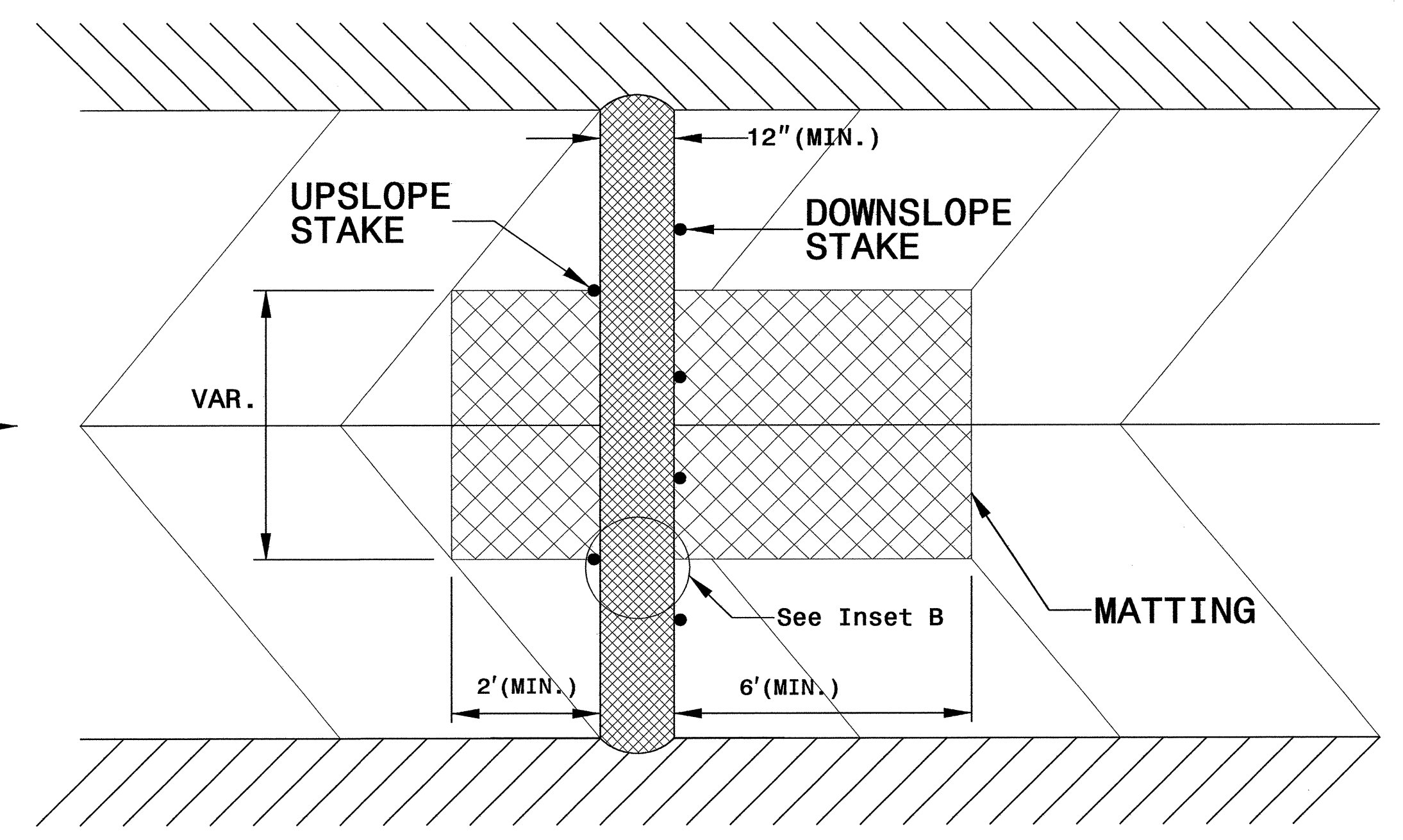
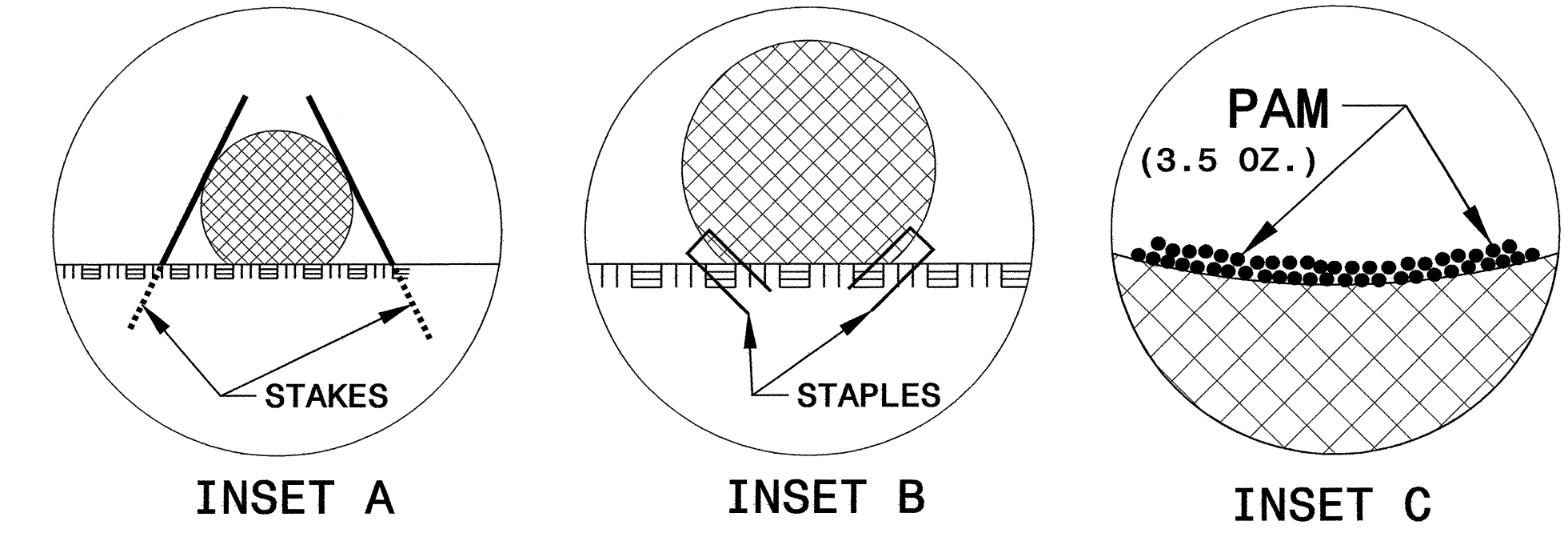
CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

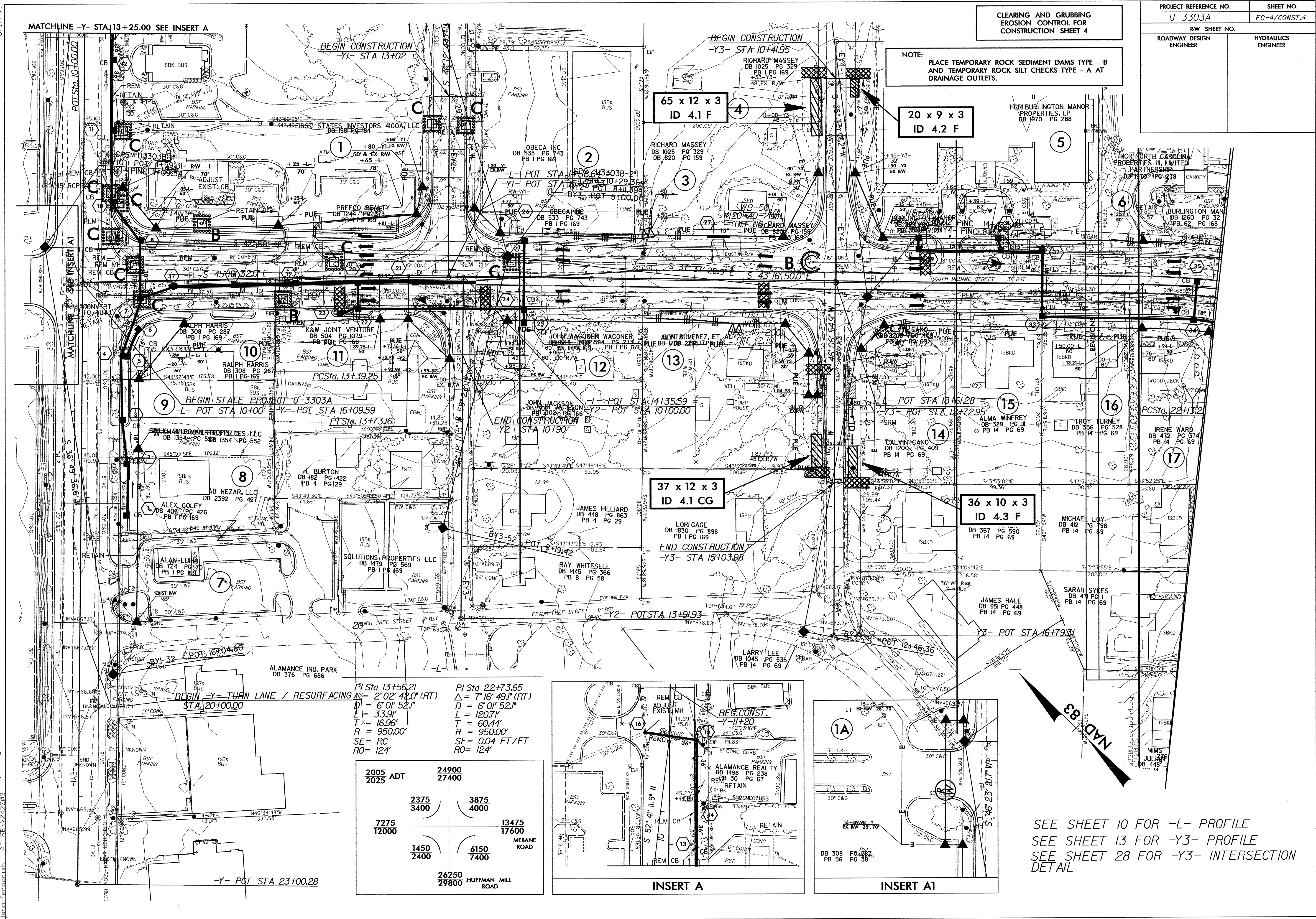
- USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.
- USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. CROSS SECTION.
- INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
- PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT 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.
- INITIALLY APPLY 3.5 OUNCES OF ANIONIC OR NEUTRALLY CHARGED POLYACRYLAMIDE (PAM) OVER WATTLE WHERE WATER WILL FLOW AND AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.25 IN.



TOP VIEW

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.



65 x 12 x 3
ID 4.1 F

20 x 9 x 3
ID 4.2 F

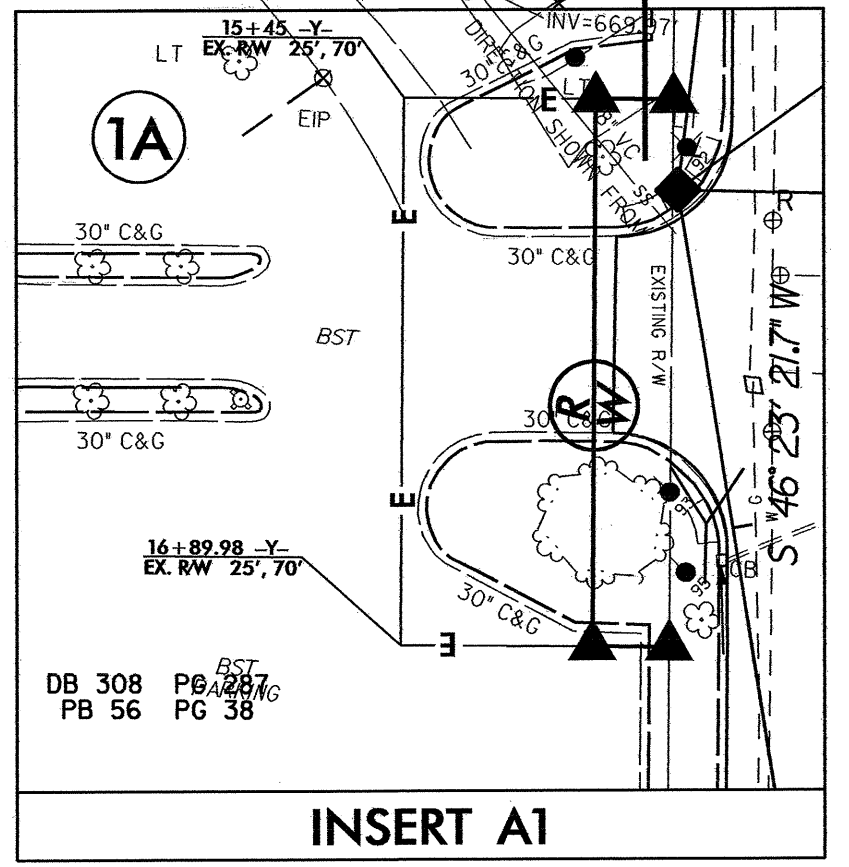
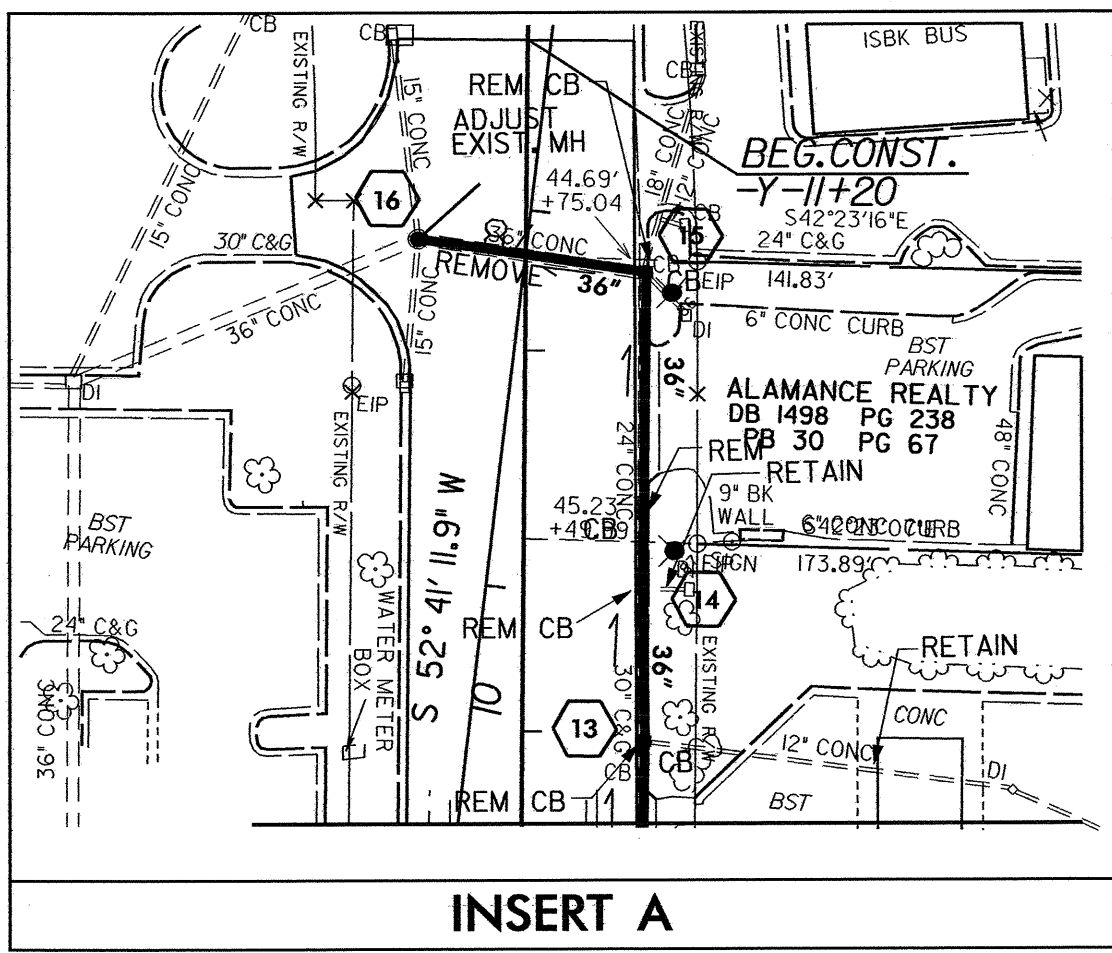
37 x 12 x 3
ID 4.1 CG

36 x 10 x 3
ID 4.3 F

PI Sta 13+56.21
Δ = 2' 02" 42.0" (RT)
D = 6' 01" 52.1"
L = 33.91'
T = 16.96'
R = 950.00'
SE = RC
RO = 124'

PI Sta 22+73.65
Δ = 7' 16" 49.1" (RT)
D = 6' 01" 52.1"
L = 120.71'
T = 60.44'
R = 950.00'
SE = 0.04 FT/FT
RO = 124'

2005 ADT	24900
2025	27400
2375	3875
3400	4000
7275	13475
12000	17600
1450	6150
2400	7400
26250	
29800	



SEE SHEET 10 FOR -L- PROFILE
SEE SHEET 13 FOR -Y3- PROFILE
SEE SHEET 28 FOR -Y3- INTERSECTION
DETAIL

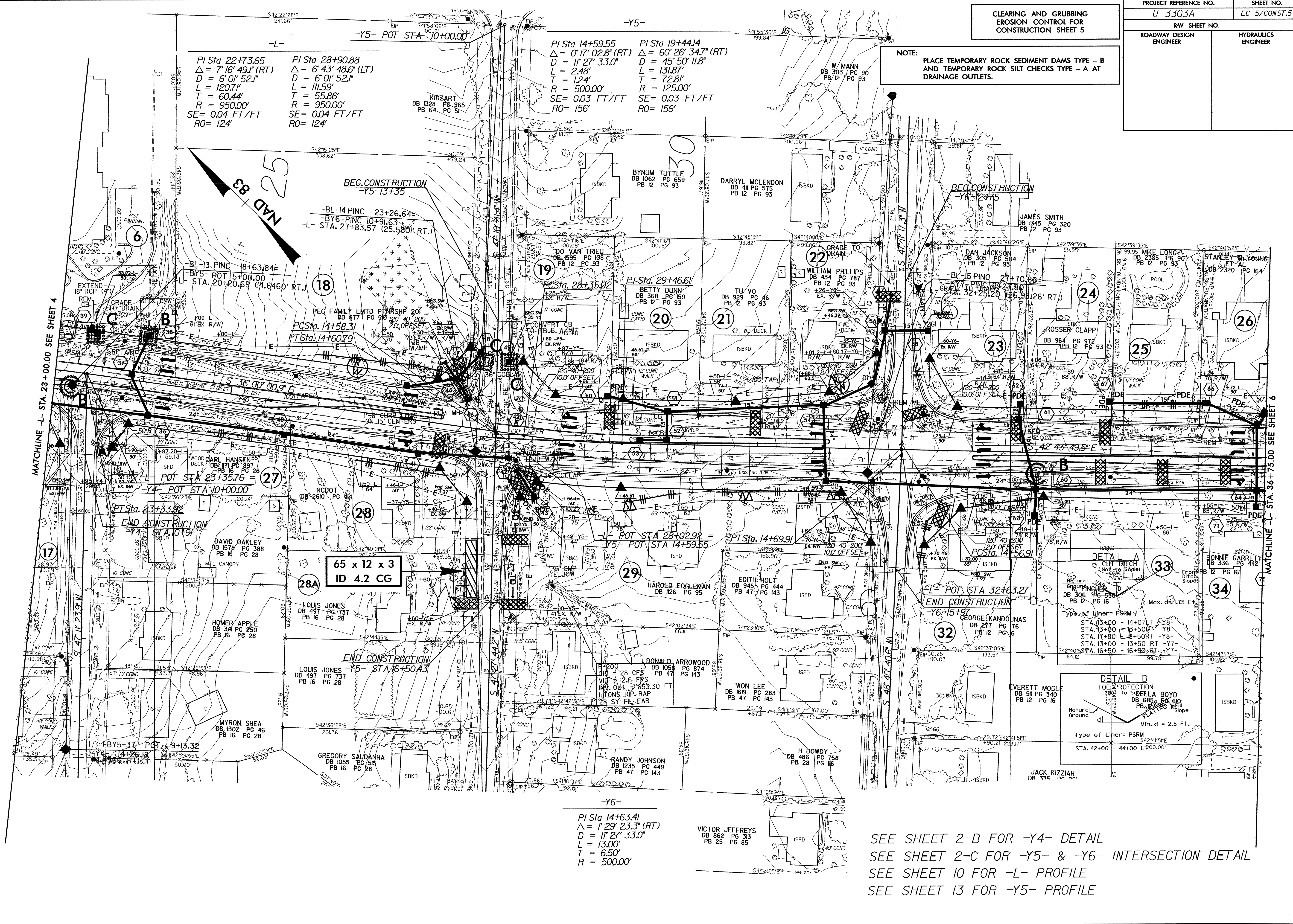
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REVISIONS

PROJECT REFERENCE NO.		SHEET NO.	
U-3303A		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.



PI Sta 22+73.65
Δ = 7° 16' 49.1" (RT)
D = 6° 01' 52.1"
L = 120.71'
T = 60.44'
R = 950.00'
SE = 0.04 FT/FT
RO = 124'

PI Sta 28+90.88
Δ = 6° 43' 48.6" (LT)
D = 6° 01' 52.1"
L = 111.59'
T = 55.86'
R = 950.00'
SE = 0.04 FT/FT
RO = 124'

PI Sta 14+59.55
Δ = 0° 17' 02.8" (RT)
D = 1° 27' 33.0"
L = 2.48'
T = 1.24'
R = 500.00'
SE = 0.03 FT/FT
RO = 156'

PI Sta 19+44.14
Δ = 60° 26' 34.7" (RT)
D = 45° 50' 11.8"
L = 131.87'
T = 72.87'
R = 125.00'
SE = 0.03 FT/FT
RO = 156'

BEG. CONSTRUCTION
-Y5-13+35

-BL-14 PINC 23+26.64=
-BY6-PINC 10+91.63
-L STA. 27+83.57 (25.580' RT.)

BL-13 PINC 18+63.84=
-BY5-PINC 15+00.00
STA. 20+20.69 (14.646' RT.)

PEC FAMILY LMTD PARTNERSHIP 201
DB 977 PG 510
PC Sta. 14+58.31
PT Sta. 14+60.79

**65 x 12 x 3
ID 4.2 CG**

END CONSTRUCTION
-Y6-15+97

DETAIL A
CUT BENCH
(Not to Scale)
DB 306 PG 16
PB 12 PG 16
Type of Liner = PSRM
STA. 13+00 - 14+07.1 - Y8
STA. 13+00 - 13+50RT - Y8
STA. 13+80 - 13+50RT - Y8
STA. 13+00 - 13+50 RT - Y7
S42°40'SSEA. 16+50 - 16+32.21
84.22 99.76

DETAIL B
TOE PROTECTION
to DELLA BOYD
DB 685 PG 610
PB 12 PG 16
Natural Ground
Min. d = 2.5 Ft.
Type of Liner = PSRM
S42°41'51"E
STA. 42+00 - 44+00 L'100.00'

PI Sta 14+63.41
Δ = 1° 29' 23.3" (RT)
D = 1° 27' 33.0"
L = 13.00'
T = 6.50'
R = 500.00'

VICTOR JEFFREYS
DB 862 PG 313
PB 25 PG 85

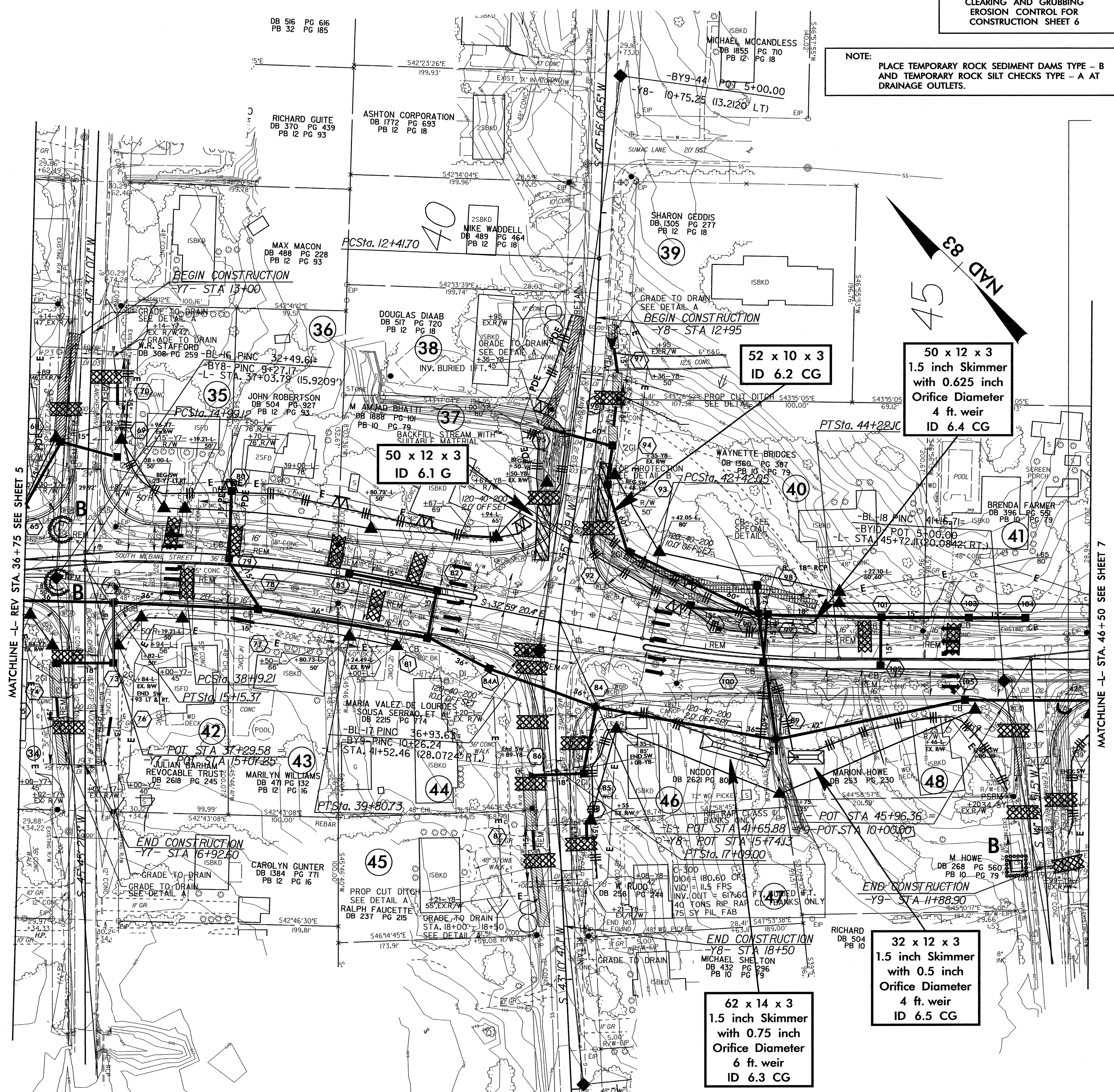
SEE SHEET 2-B FOR -Y4- DETAIL
SEE SHEET 2-C FOR -Y5- & -Y6- INTERSECTION DETAIL
SEE SHEET 10 FOR -L- PROFILE
SEE SHEET 13 FOR -Y5- PROFILE

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PROJECT REFERENCE NO.		SHEET NO.	
U-3303A		EC-6/CONST.6	
R/W 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.



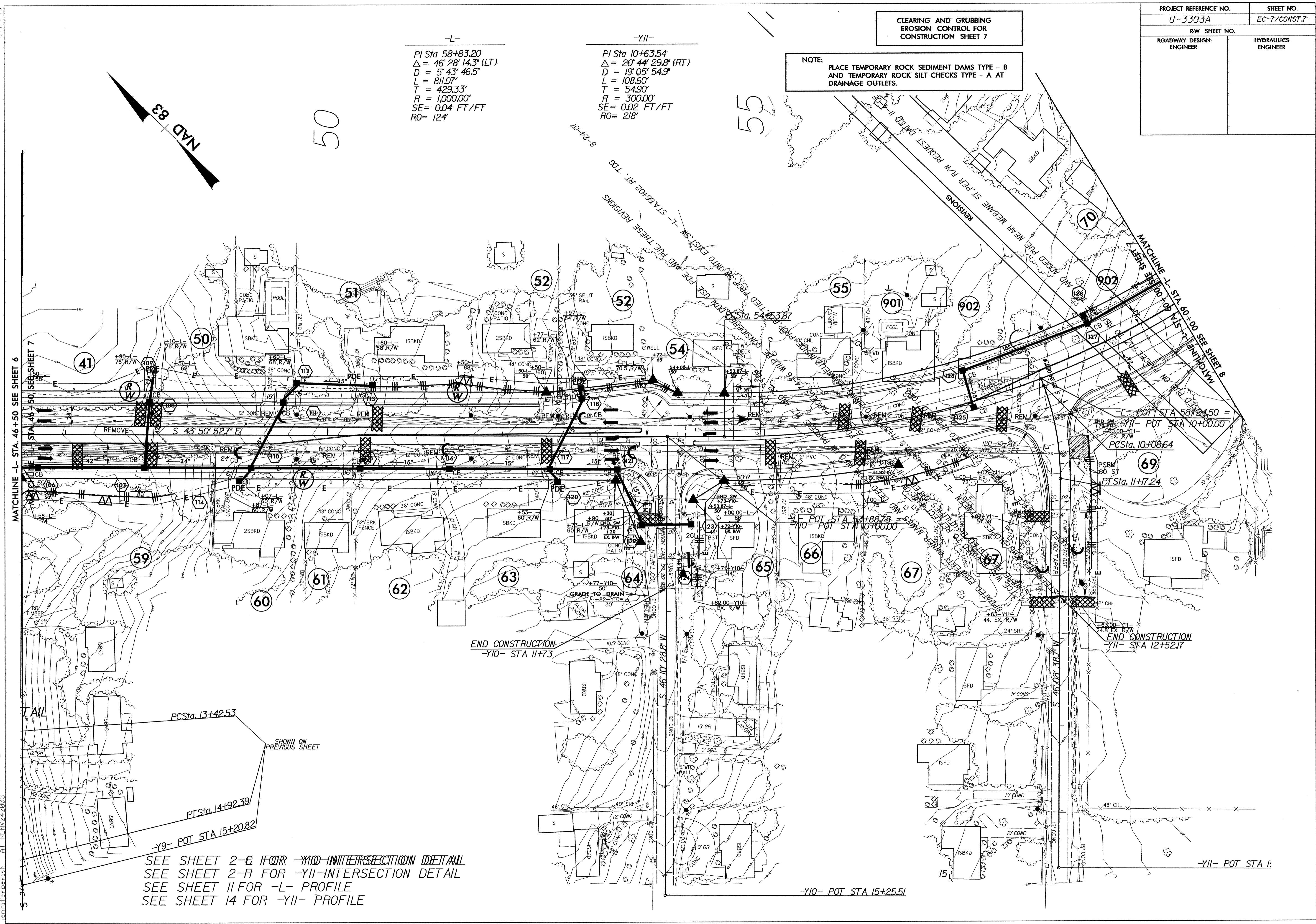
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7

PROJECT REFERENCE NO. U-3303A	SHEET NO. EC-7/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L-
PI Sta 58+83.20
Δ = 46° 28' 14.3" (LT)
D = 5° 43' 46.5"
L = 811.07'
T = 429.33'
R = 1,000.00'
SE = 0.04 FT/FT
RO = 124'

-YII-
PI Sta 10+63.54
Δ = 20° 44' 29.8" (RT)
D = 19° 05' 54.9"
L = 108.60'
T = 54.90'
R = 300.00'
SE = 0.02 FT/FT
RO = 218'

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



MATCHLINE -L- STA. 46+50 SEE SHEET 6

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2:\NOV-2008 14:00 design\U3303a.ec.psh7.dgn
2:\NOV-2008 14:00 design\U3303a.ec.psh7.dgn

SEE SHEET 2-G FOR -YII- INTERSECTION DETAIL
SEE SHEET 2-F FOR -YII- INTERSECTION DETAIL
SEE SHEET 11 FOR -L- PROFILE
SEE SHEET 14 FOR -YII- PROFILE

-YII- POT STA 15+25.51

-YII- POT STA 12+52.17

END CONSTRUCTION
-YII- STA 11+73

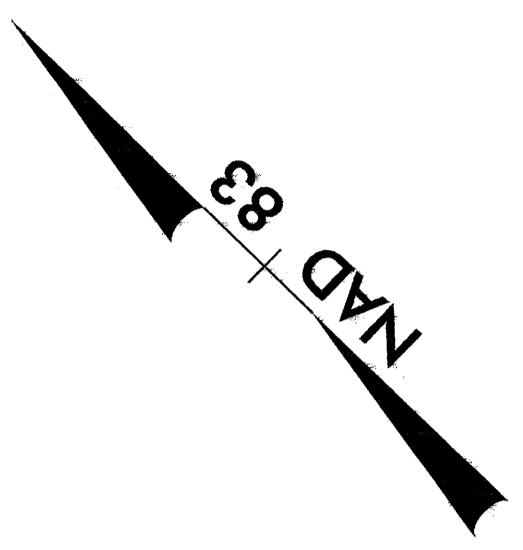
END CONSTRUCTION
-YII- STA 12+52.17

PCSta. 13+42.53
PTSta. 14+92.39
-Y9- POT STA 15+20.82

SHOWN ON PREVIOUS SHEET

TAIL

8-24-01



50

55

41

50

51

52

52

54

55

901

902

70

902

59

60

61

62

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67

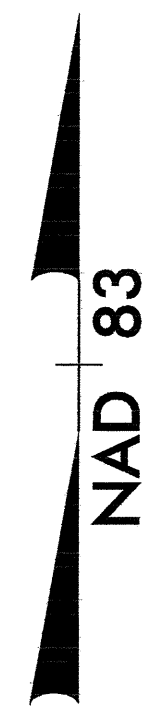
69

S

PROJECT REFERENCE NO.		SHEET NO.	
U-3303A		EC-8/CONST.8	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

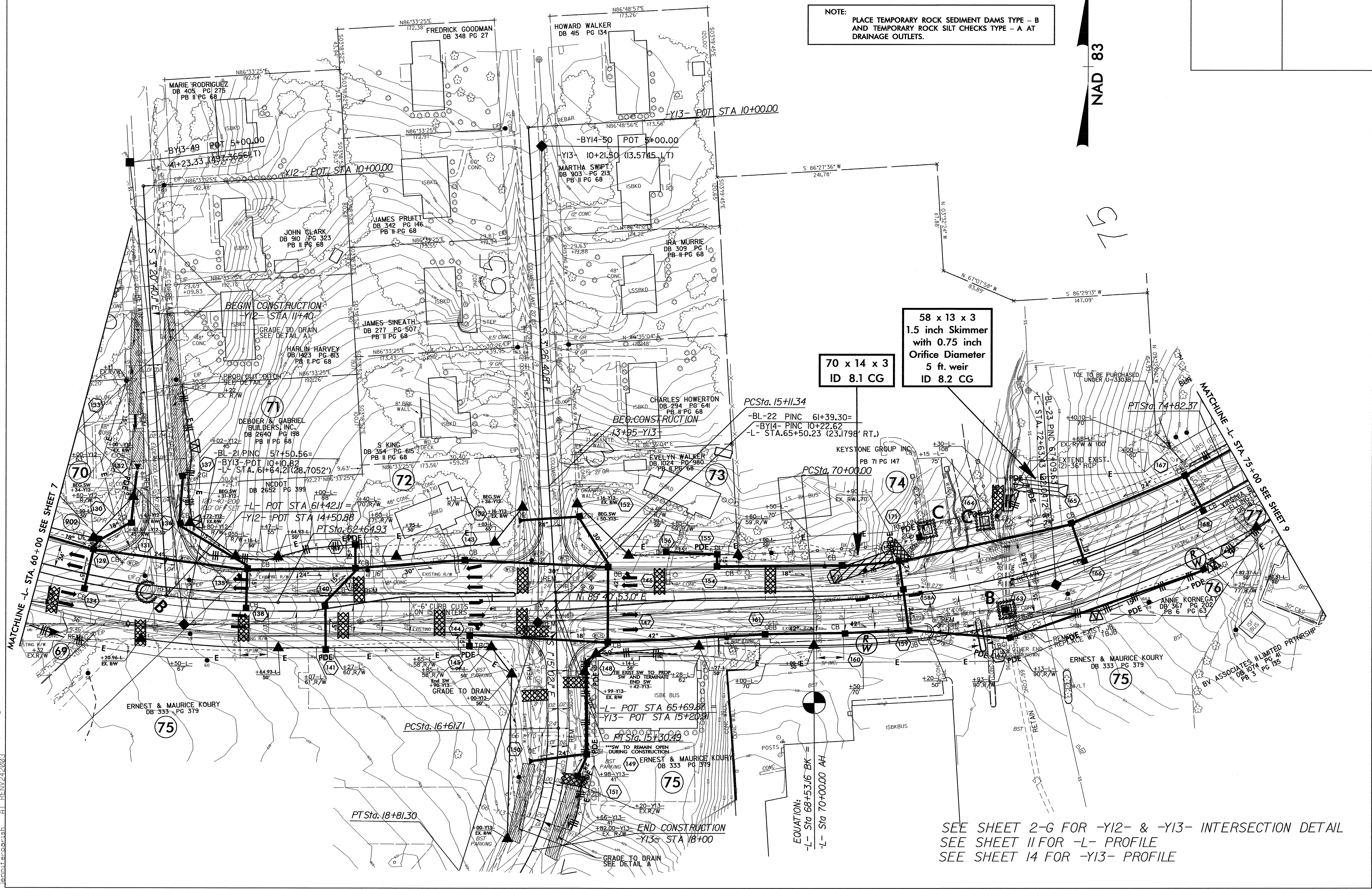
**CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 8**

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



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**70 x 14 x 3
ID 8.1 CG**

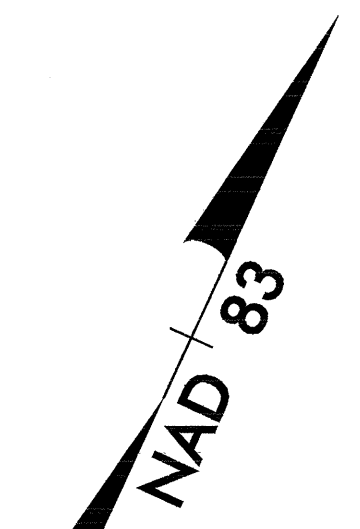
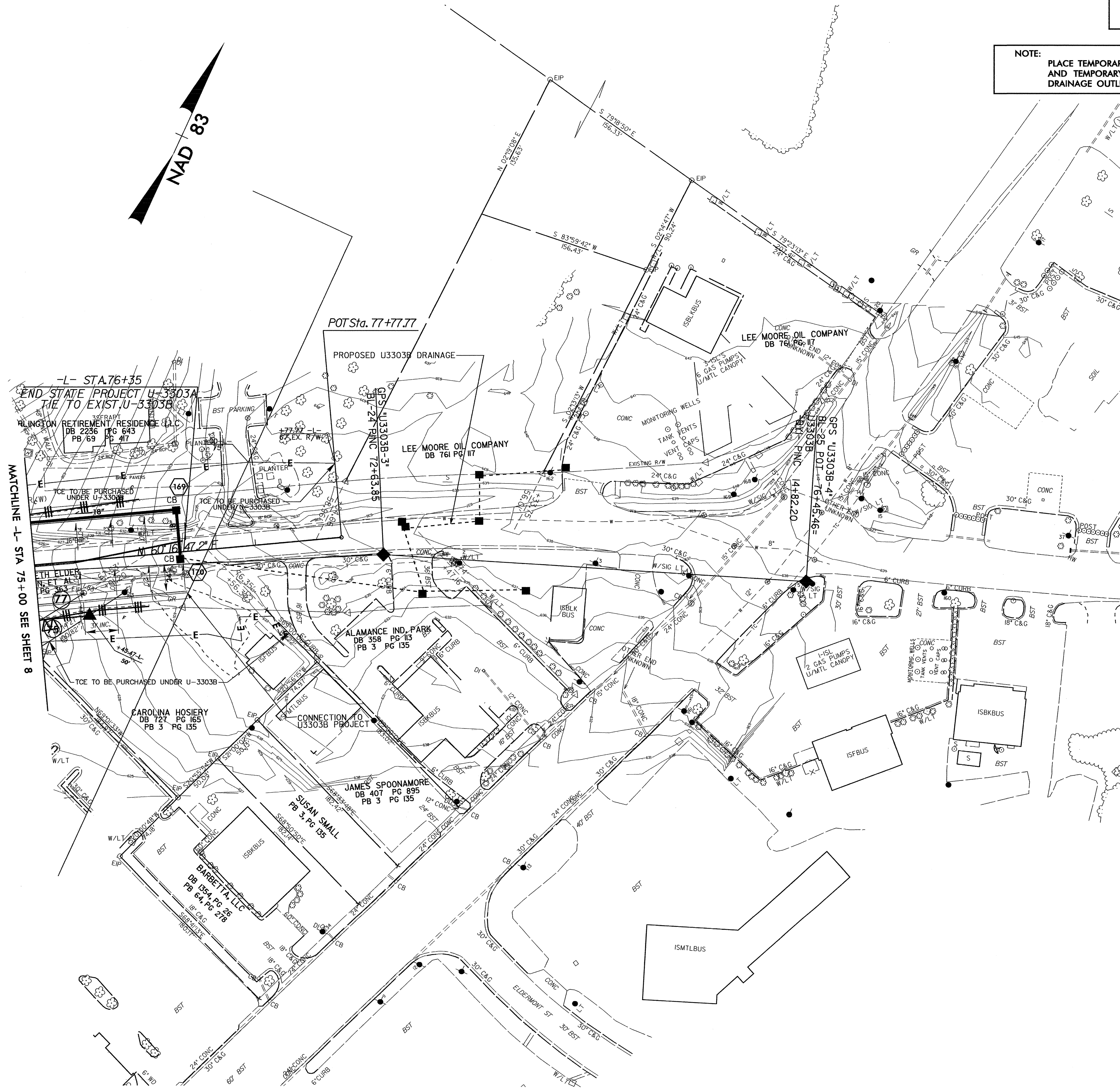
**58 x 13 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
5 ft. weir
ID 8.2 CG**

SEE SHEET 2-G FOR -Y12- & -Y13- INTERSECTION DETAIL
SEE SHEET 11 FOR -L- PROFILE
SEE SHEET 14 FOR -Y13- PROFILE

PROJECT REFERENCE NO. U-3303A		SHEET NO. EC-9/CONST.9	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

**CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 9**

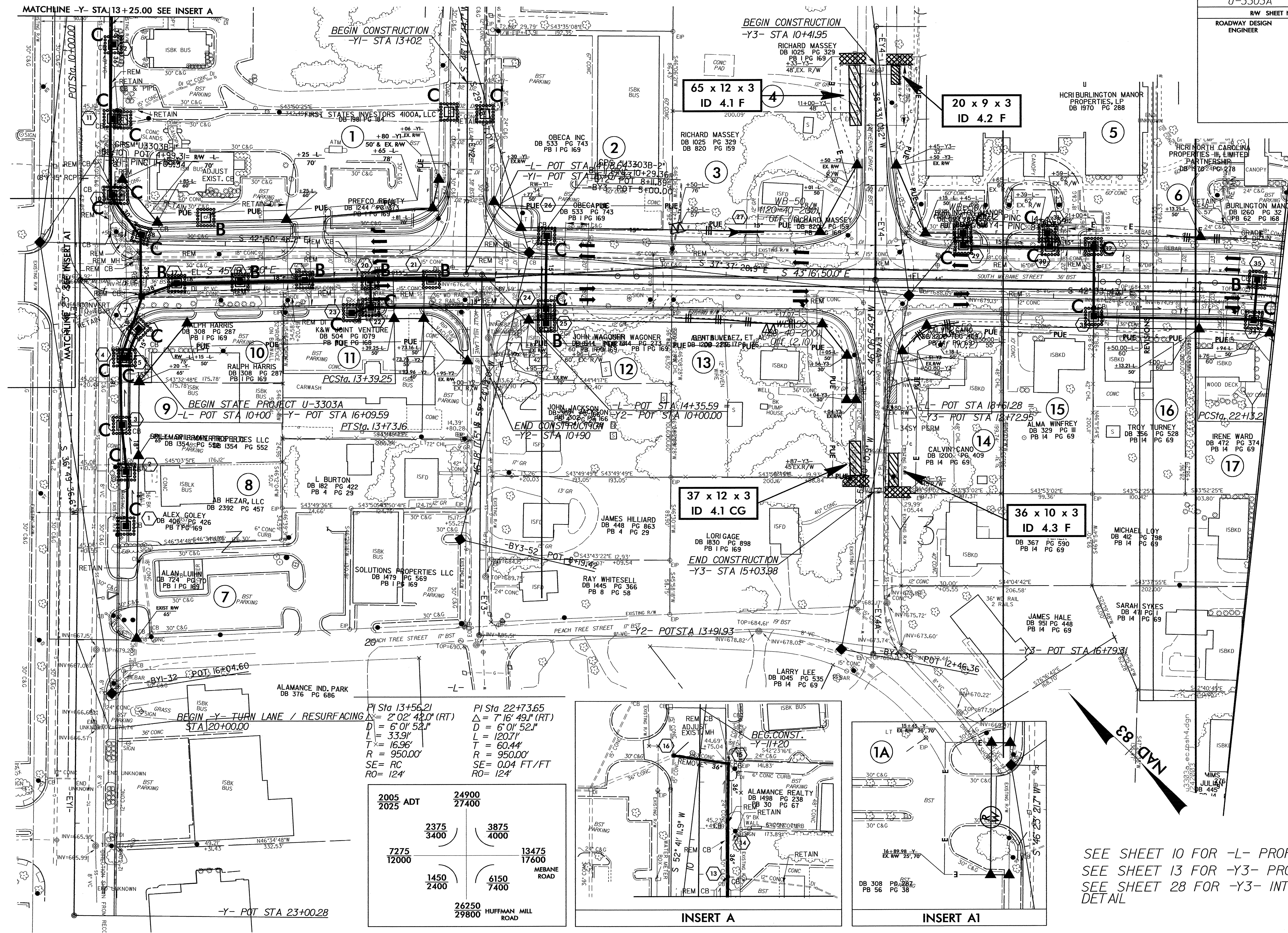
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.



MATCHLINE - STA 75+00 SEE SHEET 8

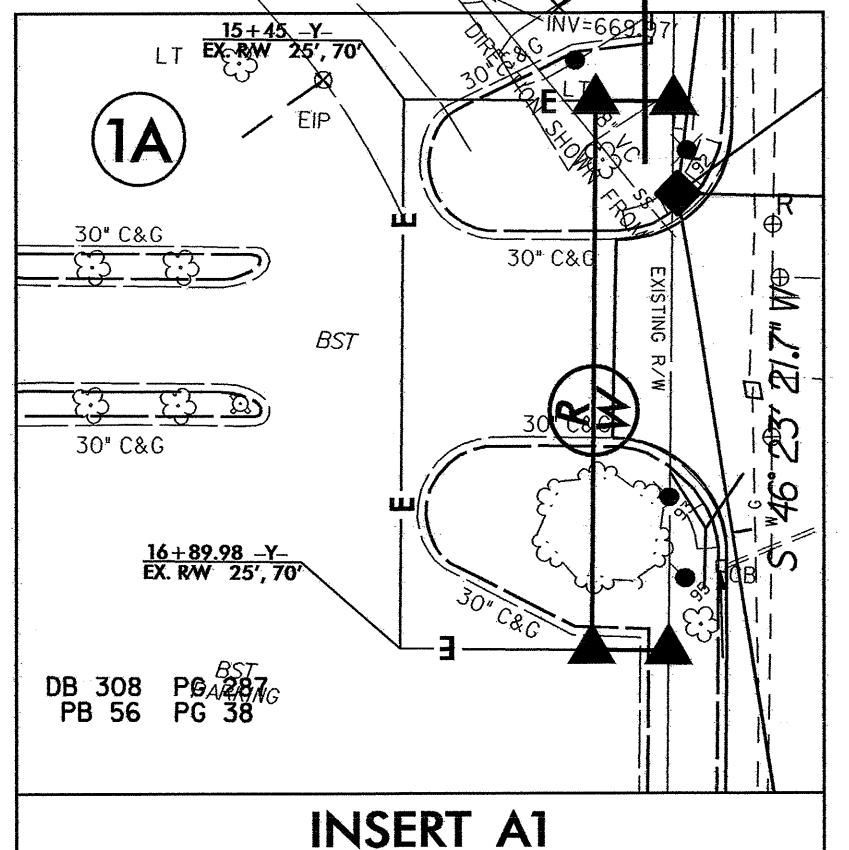
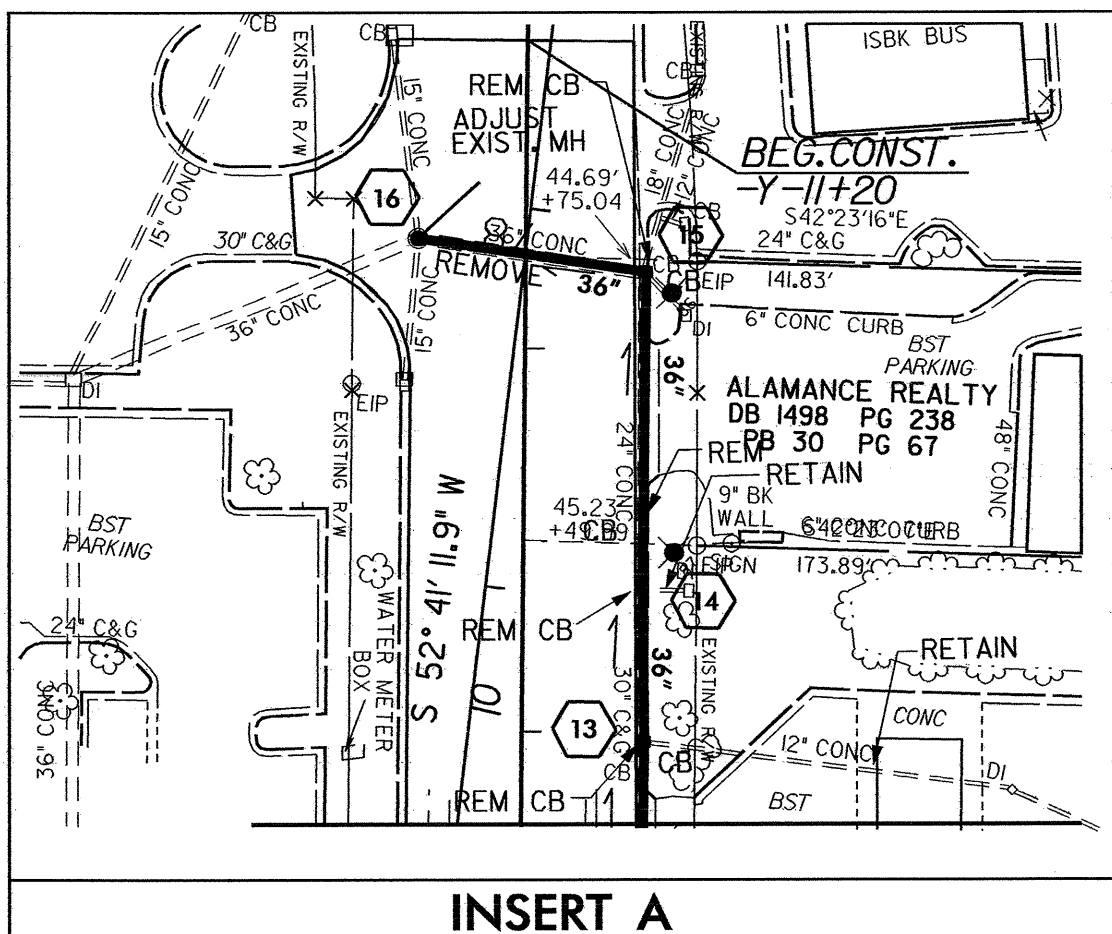
8/17/09

MATCHLINE -Y- STA 13+25.00 SEE INSERT A



BEGIN -Y- TURN LANE / RESURFACING
 STA 20+00.00
 PI Sta 13+56.21
 $\Delta = 2' 02" 42.0" (RT)$
 $D = 6' 01" 52.1"$
 $L = 33.9'$
 $T = 60.44'$
 $R = 950.00'$
 $SE = RC$
 $RO = 124'$

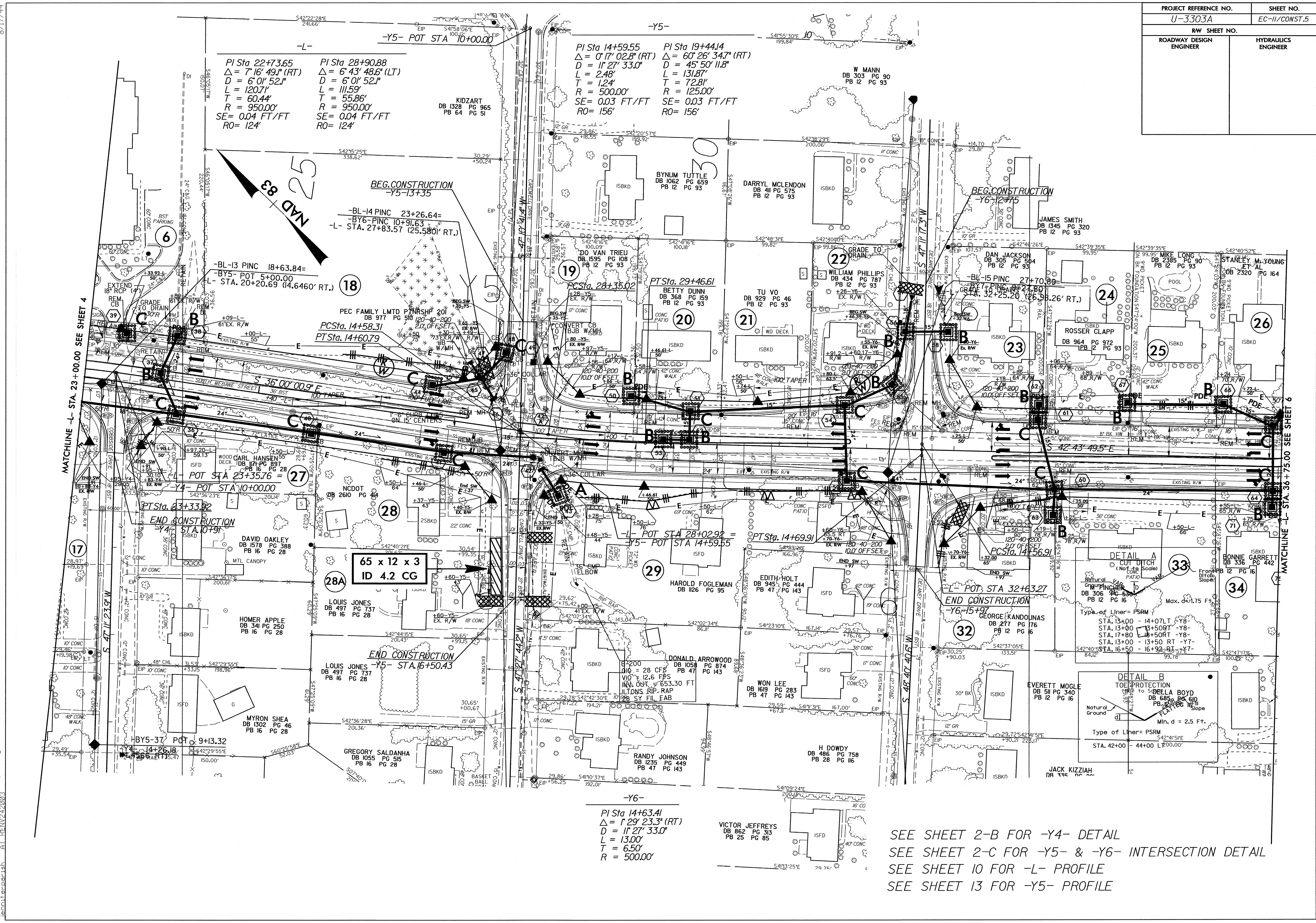
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2025	27400
2375	3875
3400	4000
7275	13475
12000	17600
1450	6150
2400	7400
26250	
29800	



SEE SHEET 10 FOR -L- PROFILE
 SEE SHEET 13 FOR -Y3- PROFILE
 SEE SHEET 28 FOR -Y3- INTERSECTION DETAIL

01-DEC-2008 16:53
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 U:\3303\ec\psh4.dgn
 U:\3303\ec\psh4.dgn
 U:\3303\ec\psh4.dgn

PROJECT REFERENCE NO.	SHEET NO.
U-3303A	EC-II/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCHLINE -L- STA. 23+00.00 SEE SHEET 4

MATCHLINE -L- STA. 36+75.00 SEE SHEET 6

PI Sta 14+59.55 PI Sta 19+44.14
 $\Delta = 0^\circ 17' 02.8''$ (RT) $\Delta = 60^\circ 26' 34.7''$ (RT)
 $D = 11^\circ 27' 33.0''$ $D = 45^\circ 50' 11.8''$
 $L = 2.48'$ $L = 131.87'$
 $T = 1.24'$ $T = 72.81'$
 $R = 500.00'$ $R = 125.00'$
 $SE = 0.03$ FT/FT $SE = 0.03$ FT/FT
 $RO = 156'$ $RO = 156'$

PI Sta 22+73.65 PI Sta 28+90.88
 $\Delta = 7^\circ 16' 49.1''$ (RT) $\Delta = 6^\circ 43' 48.6''$ (LT)
 $D = 6^\circ 01' 52.1''$ $D = 6^\circ 01' 52.1''$
 $L = 120.71'$ $L = 111.59'$
 $T = 60.44'$ $T = 55.86'$
 $R = 950.00'$ $R = 950.00'$
 $SE = 0.04$ FT/FT $SE = 0.04$ FT/FT
 $RO = 124'$ $RO = 124'$

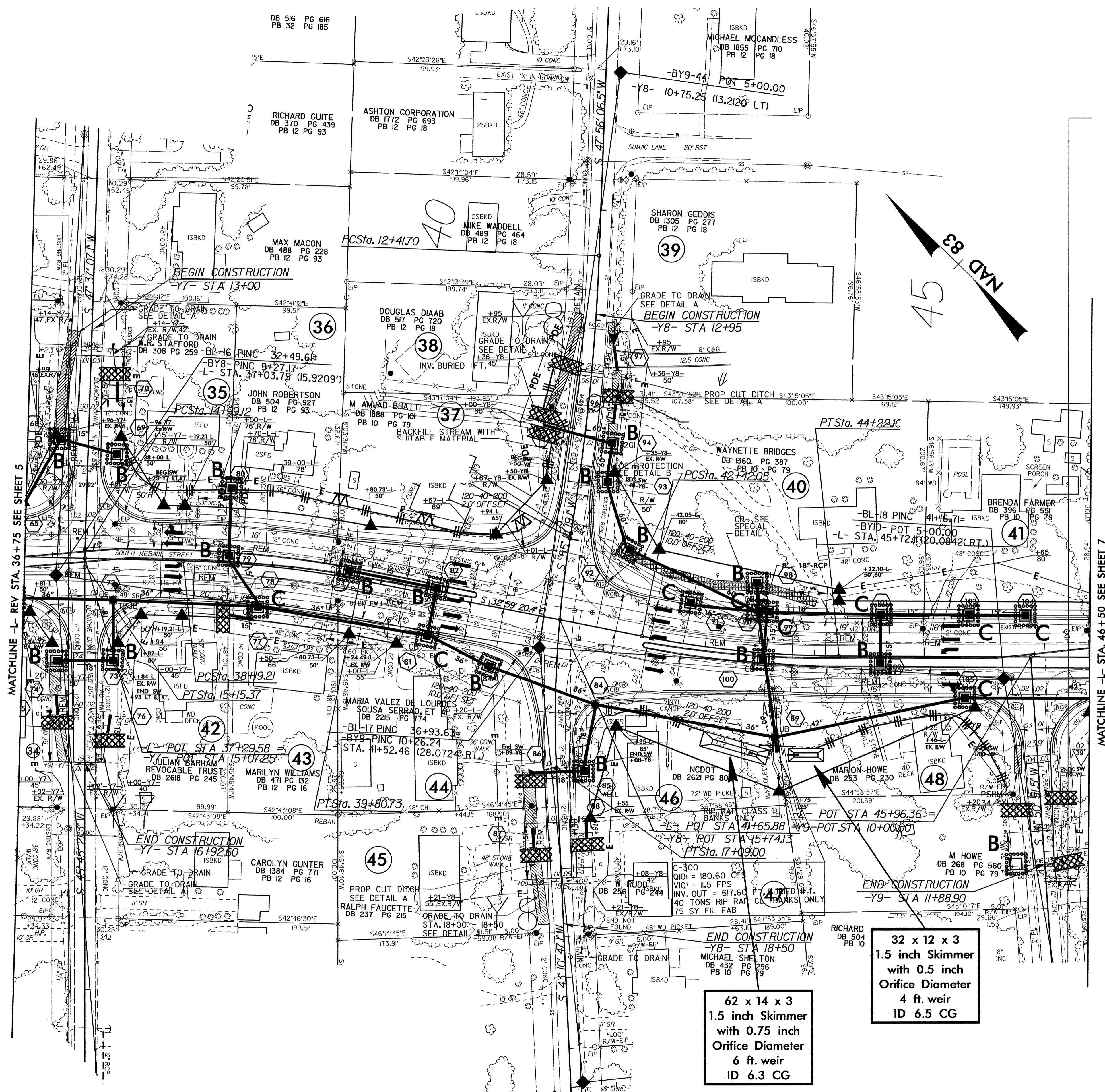
-Y6-
PI Sta 14+63.41
 $\Delta = 1^\circ 29' 23.3''$ (RT)
 $D = 11^\circ 27' 33.0''$
 $L = 13.00'$
 $T = 6.50'$
 $R = 500.00'$

SEE SHEET 2-B FOR -Y4- DETAIL
SEE SHEET 2-C FOR -Y5- & -Y6- INTERSECTION DETAIL
SEE SHEET 10 FOR -L- PROFILE
SEE SHEET 13 FOR -Y5- PROFILE

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lenn\lenn\sh

PROJECT REFERENCE NO.		SHEET NO.	
U-3303A		EC-12/CONST.6	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

8/17/99

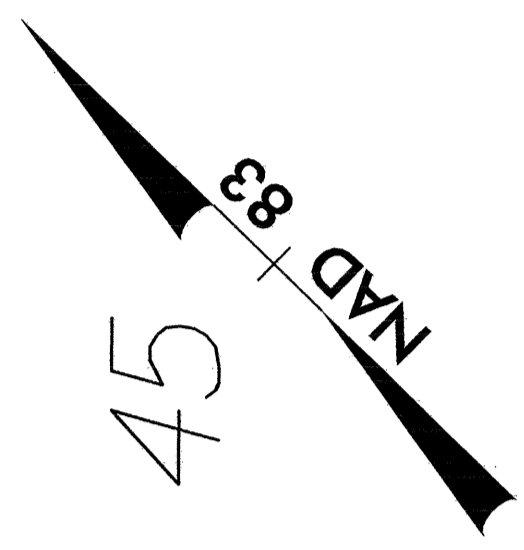


32 x 12 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
4 ft. weir
ID 6.5 CG

62 x 14 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
6 ft. weir
ID 6.3 CG

MATCHLINE -L- REV STA. 36+75 SEE SHEET 5

MATCHLINE -L- STA. 46+50 SEE SHEET 7



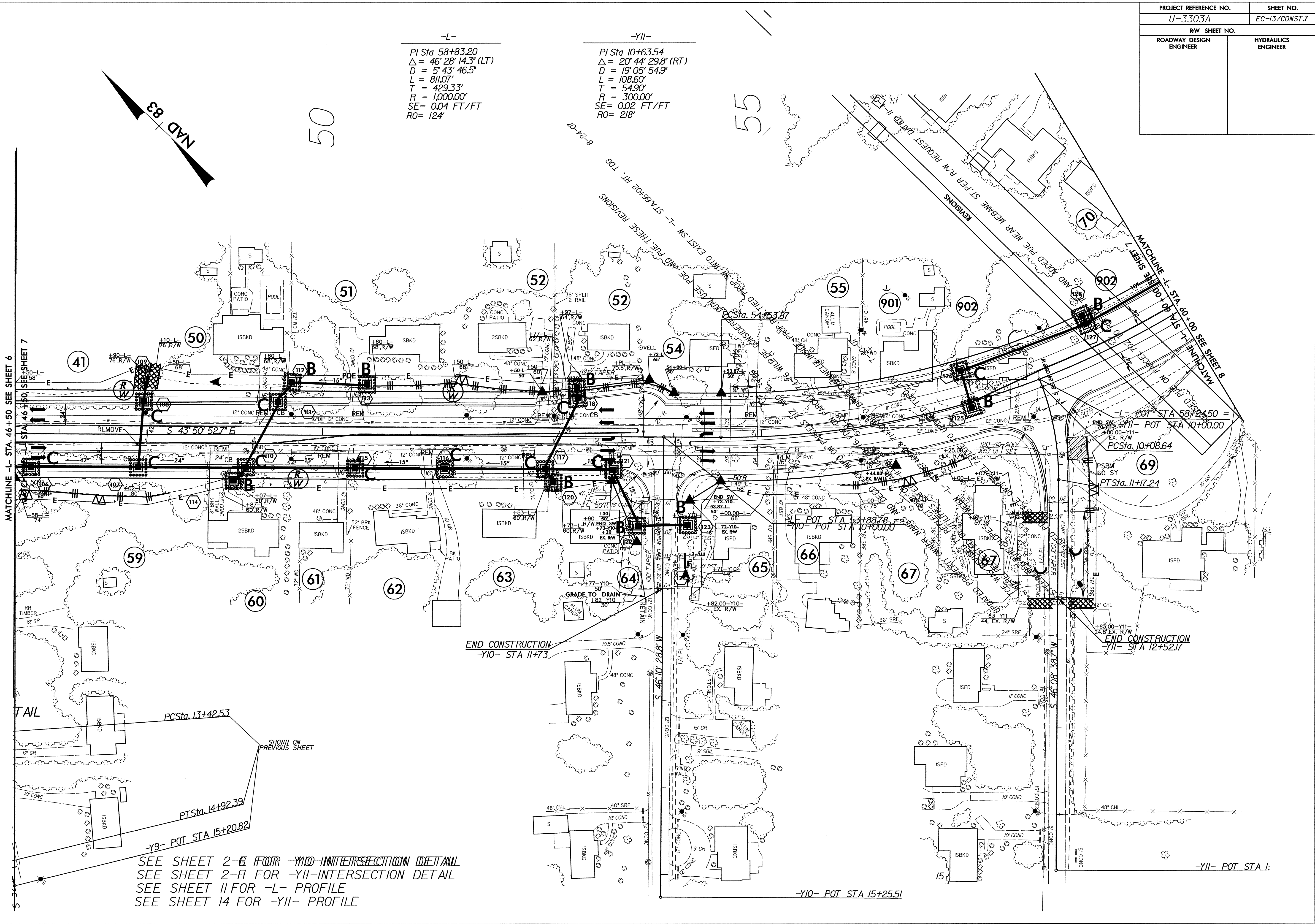
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PROJECT REFERENCE NO.	SHEET NO.
U-3303A	EC-13/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L-
 PI Sta 58+83.20
 $\Delta = 46^\circ 28' 14.3" (LT)$
 $D = 5^\circ 43' 46.5"$
 $L = 811.07'$
 $T = 429.33'$
 $R = 1,000.00'$
 $SE = 0.04 FT/FT$
 $RO = 124'$

-YII-
 PI Sta 10+63.54
 $\Delta = 20^\circ 44' 29.8" (RT)$
 $D = 19^\circ 05' 54.9"$
 $L = 108.60'$
 $T = 54.90'$
 $R = 300.00'$
 $SE = 0.02 FT/FT$
 $RO = 218'$

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 j...@... .sh



SEE SHEET 2-G FOR -YI0- INTERSECTION DETAIL
 SEE SHEET 2-R FOR -YII- INTERSECTION DETAIL
 SEE SHEET 11 FOR -L- PROFILE
 SEE SHEET 14 FOR -YII- PROFILE

END CONSTRUCTION
 -YI0- STA 11+73

END CONSTRUCTION
 -YII- STA 12+52.7

-YI0- POT STA 15+25.1

-YII- POT STA 1:

MATCHLINE -L- STA. 46+50 SEE SHEET 6

STA. 46+50 SEE SHEET 7

TAIL

PCSta. 13+42.53
 PTSta. 14+92.39
 -Y9- POT STA 15+20.82

SHOWN ON PREVIOUS SHEET

S-34

NAD 83

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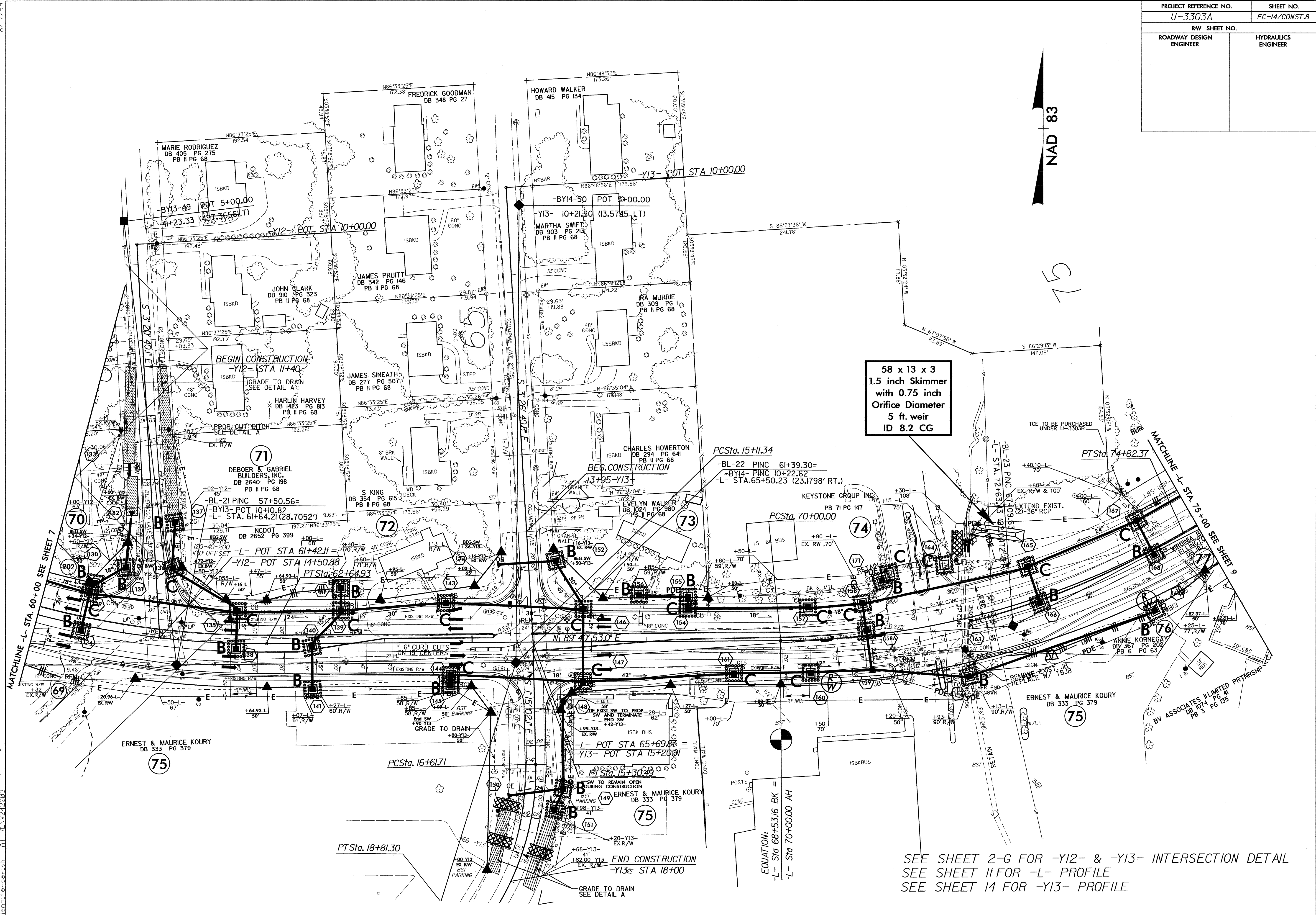
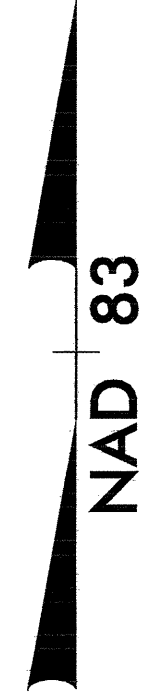
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PROJECT REFERENCE NO.		SHEET NO.	
U-3303A		EC-14/CONST.8	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER			



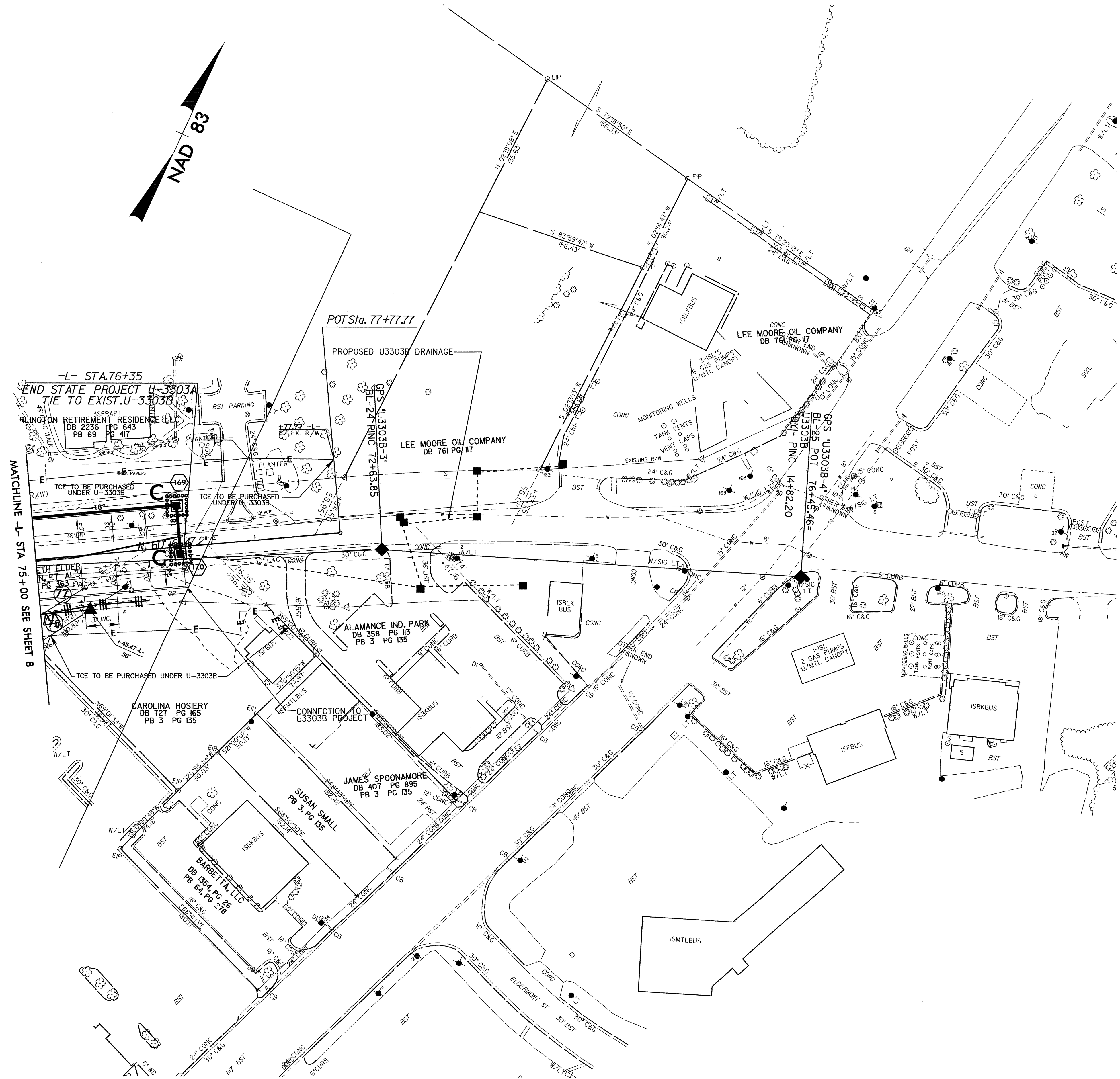
58 x 13 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
5 ft. weir
ID 8.2 CG

SEE SHEET 2-G FOR -Y12- & -Y13- INTERSECTION DETAIL
SEE SHEET 11 FOR -L- PROFILE
SEE SHEET 14 FOR -Y13- PROFILE

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PROJECT REFERENCE NO.		SHEET NO.	
U-3303A		EC-15/CONST.9	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



END STATE PROJECT U-3303A
TIE TO EXIST. U-3303B
-L- STA 76+35
RINGTON RETIREMENT RESIDENCE LLC
DB 2236 PG 643
PB 69 PG 417
TCE TO BE PURCHASED UNDER U-3303B
TCE TO BE PURCHASED UNDER U-3303B
MATCHLINE -L- STA 75+00 SEE SHEET 8