TIP PROJECT: R-4434

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-4434	EC-1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

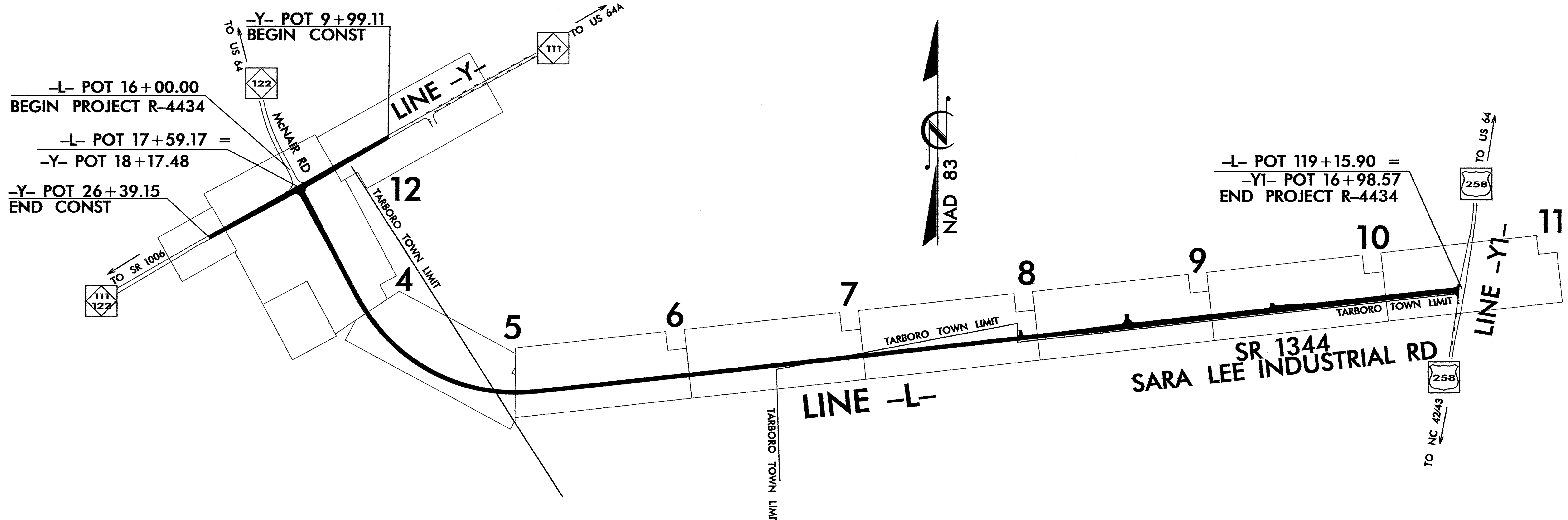
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

EDGECOMBE COUNTY

LOCATION: ***McNAIR ROAD EXTENSION FROM NC 111/122 TO US 258.***

TYPE OF WORK: ***CLEARING & GRUBBING, GRADING, DRAINAGE, PAVING, CURB & GUTTER AND TRAFFIC SIGNALS.***



EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
	Streambank Reforestation	
1630.03	Temporary Silt Ditch	TSD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.01	Riser Basin	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-B	
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	
	Rock Inlet Sediment Trap:	
1632.01	Type A	A -- OR -- A
1632.02	Type B	B -- OR -- B
1632.03	Type C	C -- OR -- C

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

0
PLANS

0
PROFILE (HORIZONTAL)

0
PROFILE (VERTICAL)

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

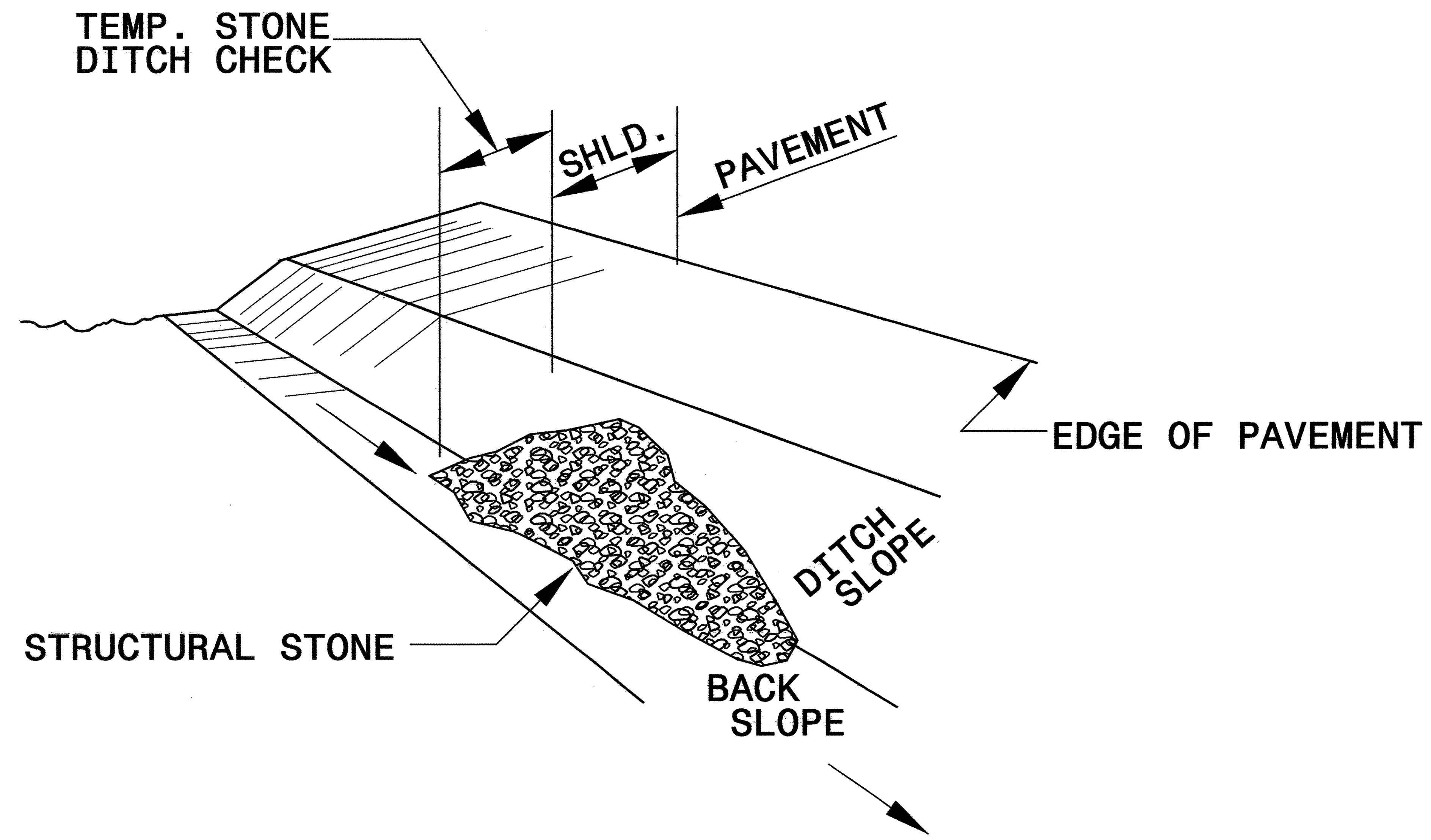
Roadway Standard Drawings

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 revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01	Temporary Silt Fence	1632.02	Rock Inlet Sediment Trap Type B
1607.01	Gravel Construction Entrance	1633.01	Temporary Rock Silt Check Type A
1622.01	Temporary Berms and Slope Drains	1634.01	Temporary Rock Sediment Dam Type A
1630.02	Silt Basin Type B	1634.02	Temporary Rock Sediment Dam Type B
1630.05	Temporary Diversion	1635.01	Rock Pipe Inlet Sediment Trap Type A

PROJECT REFERENCE NO.	SHEET NO.
R-4434	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

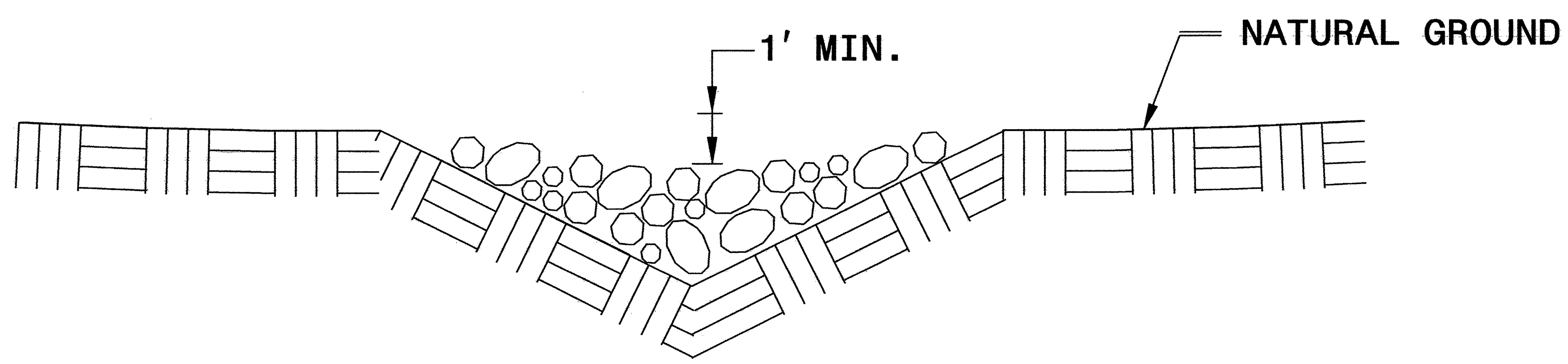


ISOMETRIC VIEW

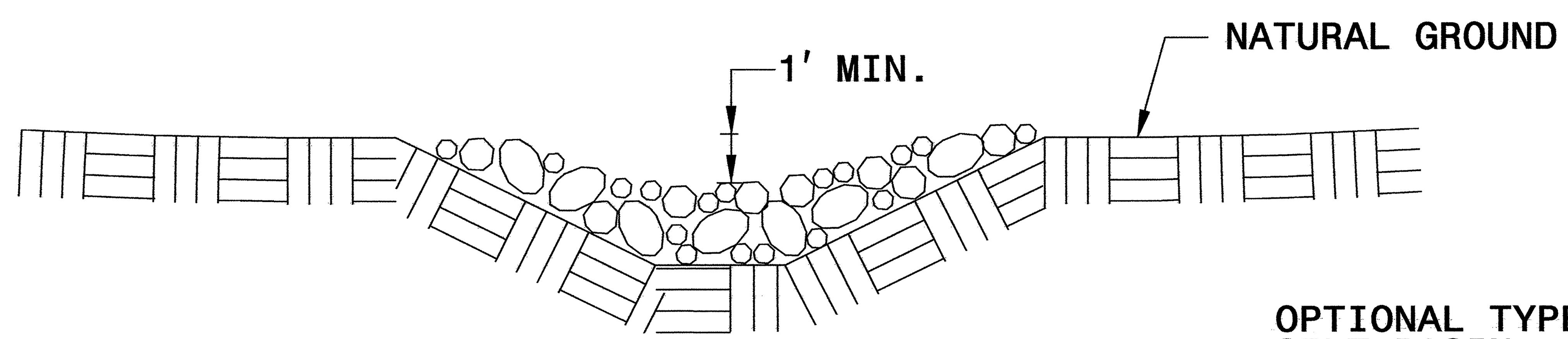
NOTES:

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

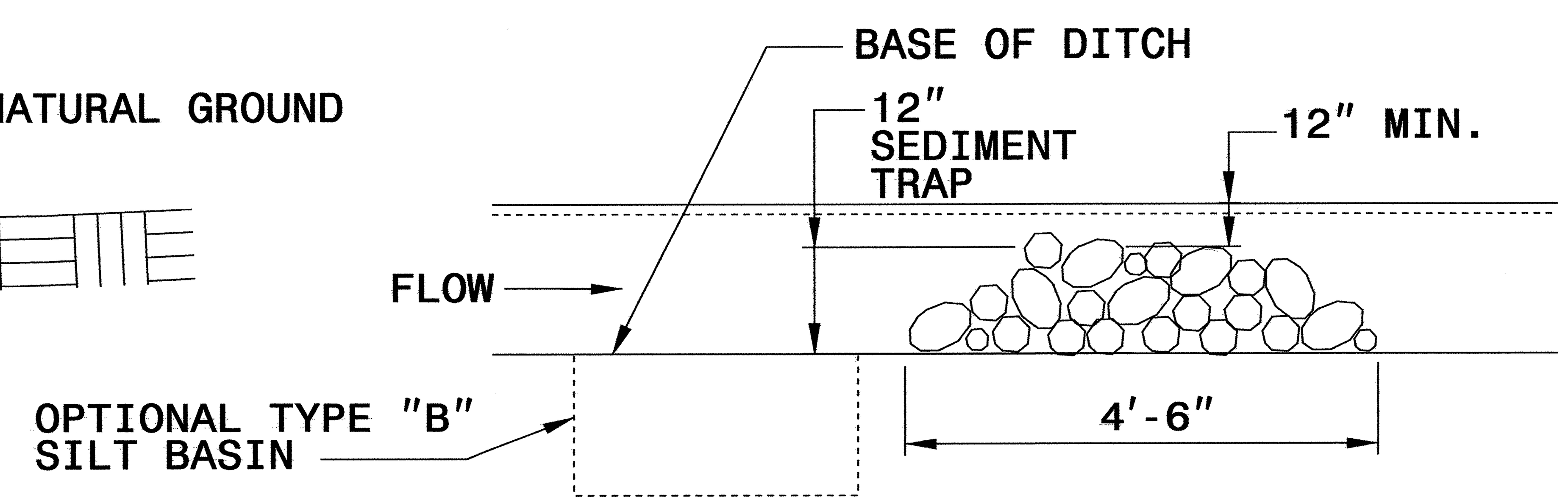
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



CROSS SECTION
VEE DITCH



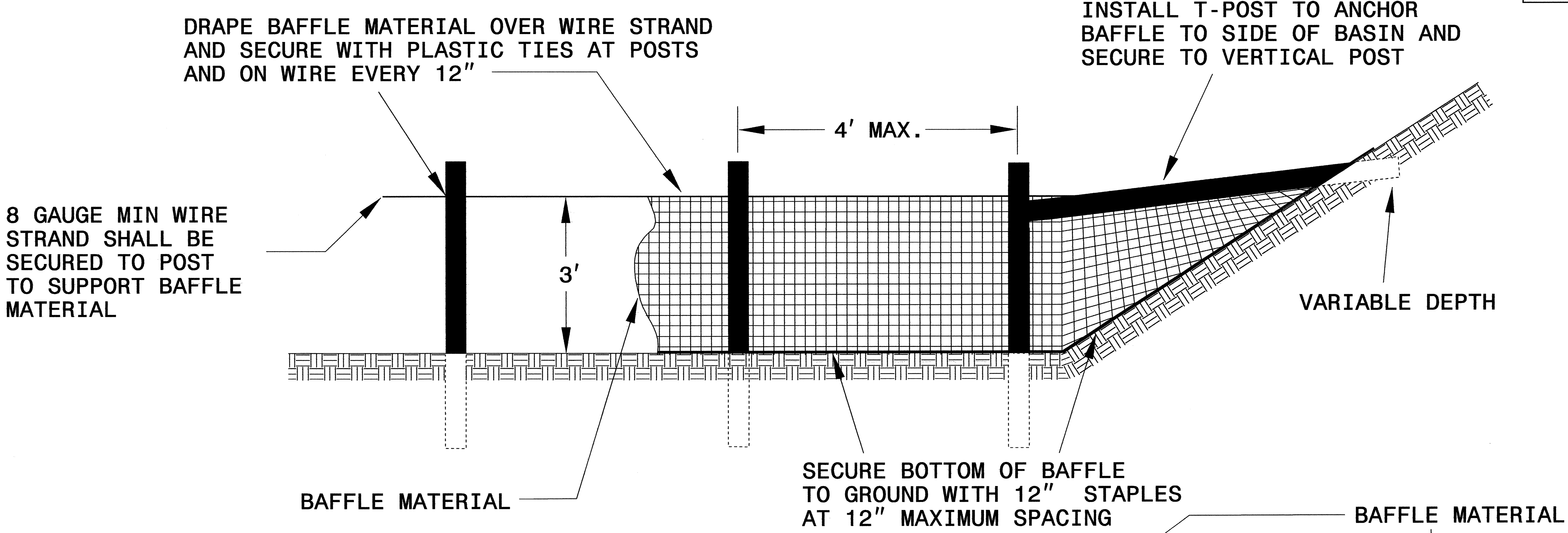
CROSS SECTION
TRAPEZOIDAL DITCH

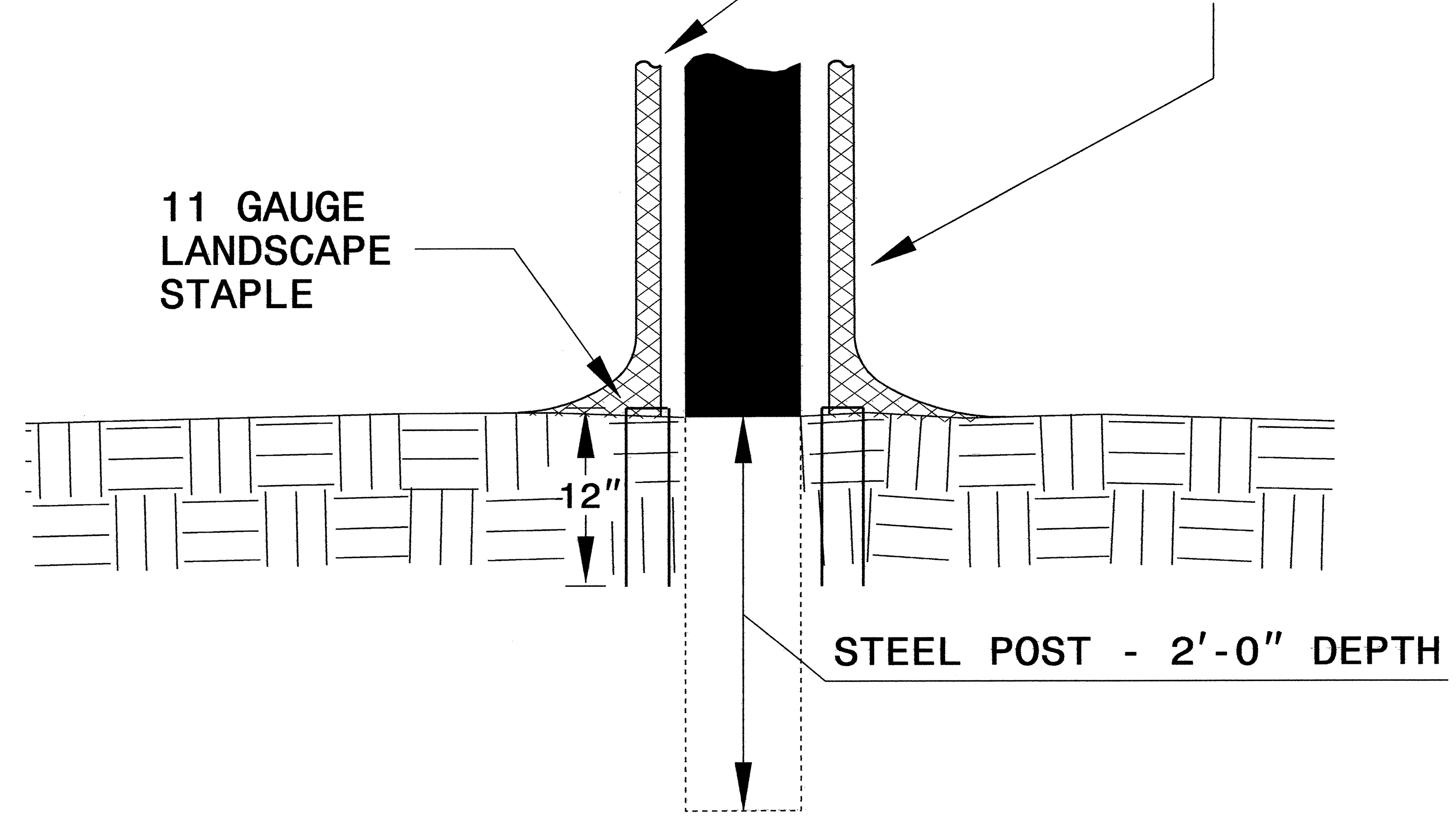


ELEVATION VIEW

PROJECT REFERENCE NO.	SHEET NO.
R-4434	EC-2A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL

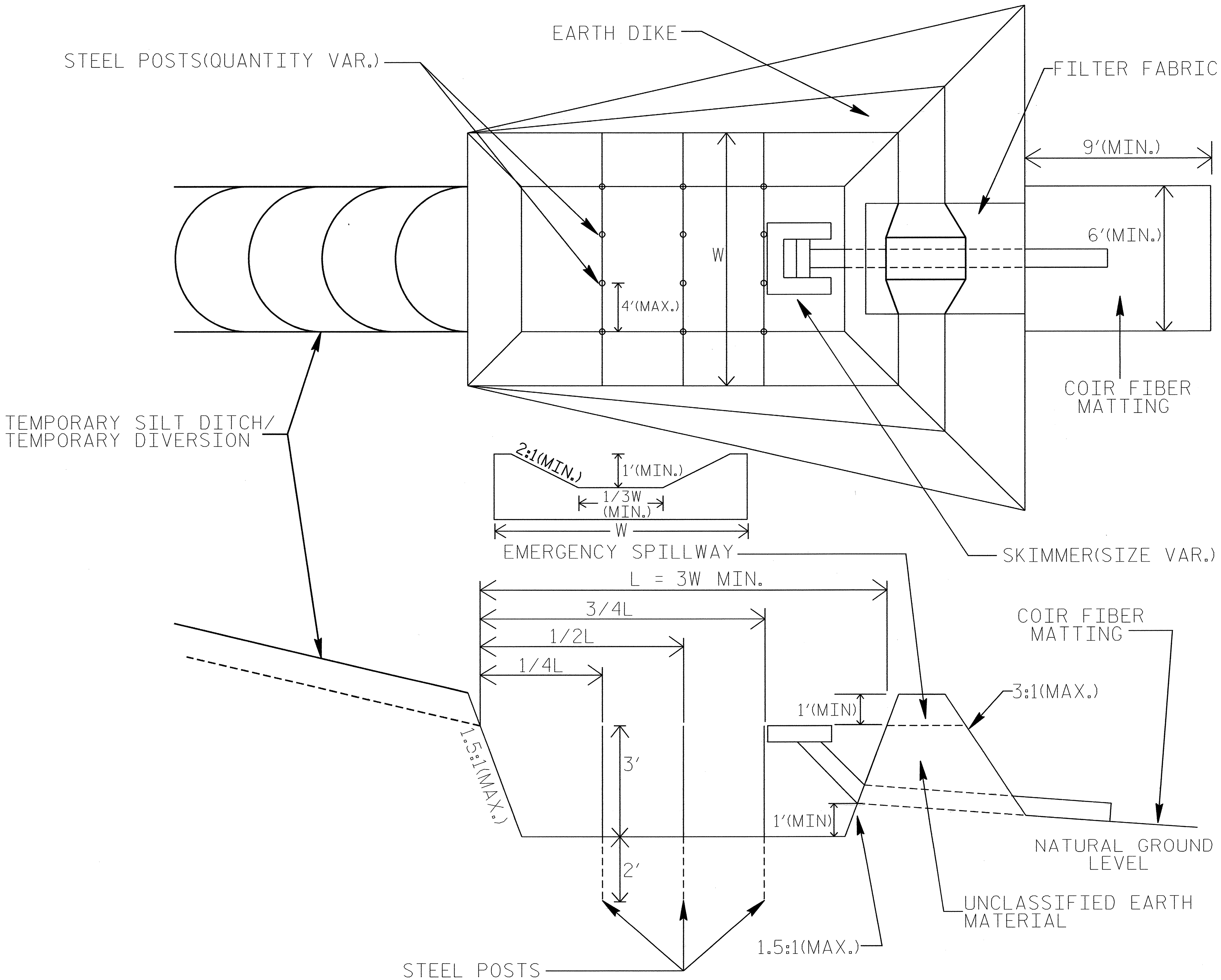


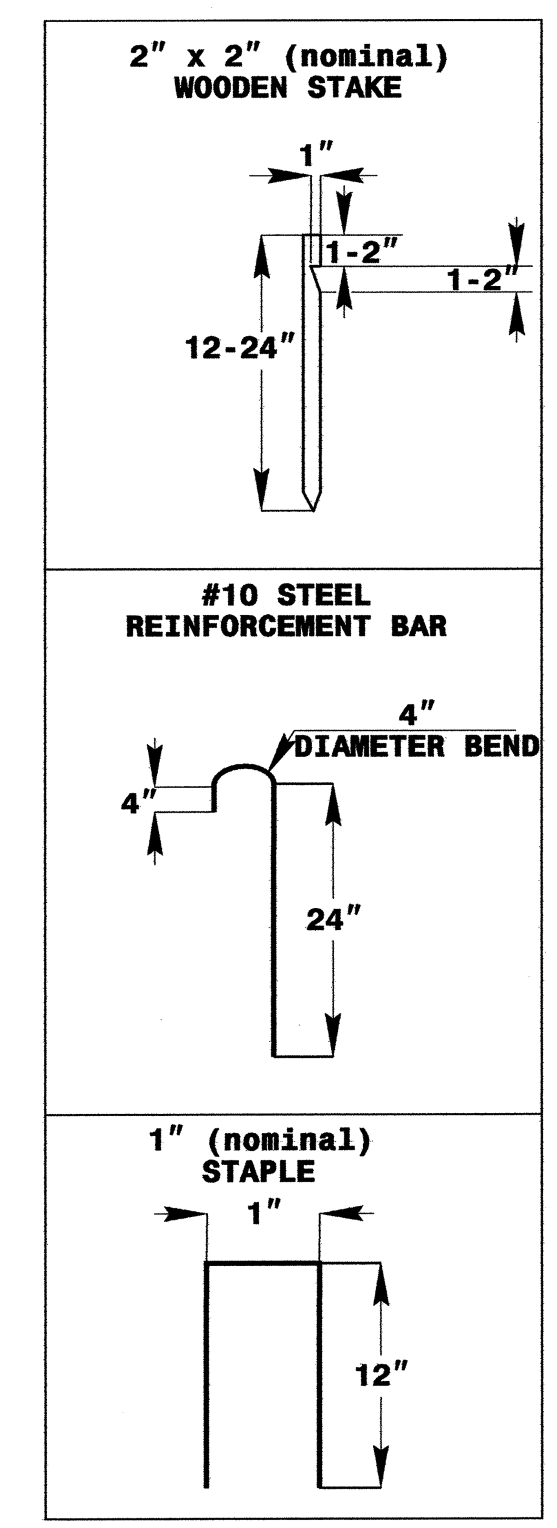


BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 12″ LANDSCAPE STAPLES

PROJECT REFERENCE NO.	SHEET NO.
R-4434	EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SKIMMER BASIN WITH BAFFLES DETAIL





COIR FIBER MAT ANCHOR OPTIONS

PROJECT REFERENCE NO.	SHEET NO.
R-4434	EC-3

ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
5	L	32+50	43+50	RT	1100
10	L	99+50		LT	25
				SUBTOTAL	1125
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					1400
				TOTAL	2525
				SAY	2525

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)

PROJECT REFERENCE NO.	SHEET NO.
R-4434	EC-4/CONST.4
R/W SHEET NO.	4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

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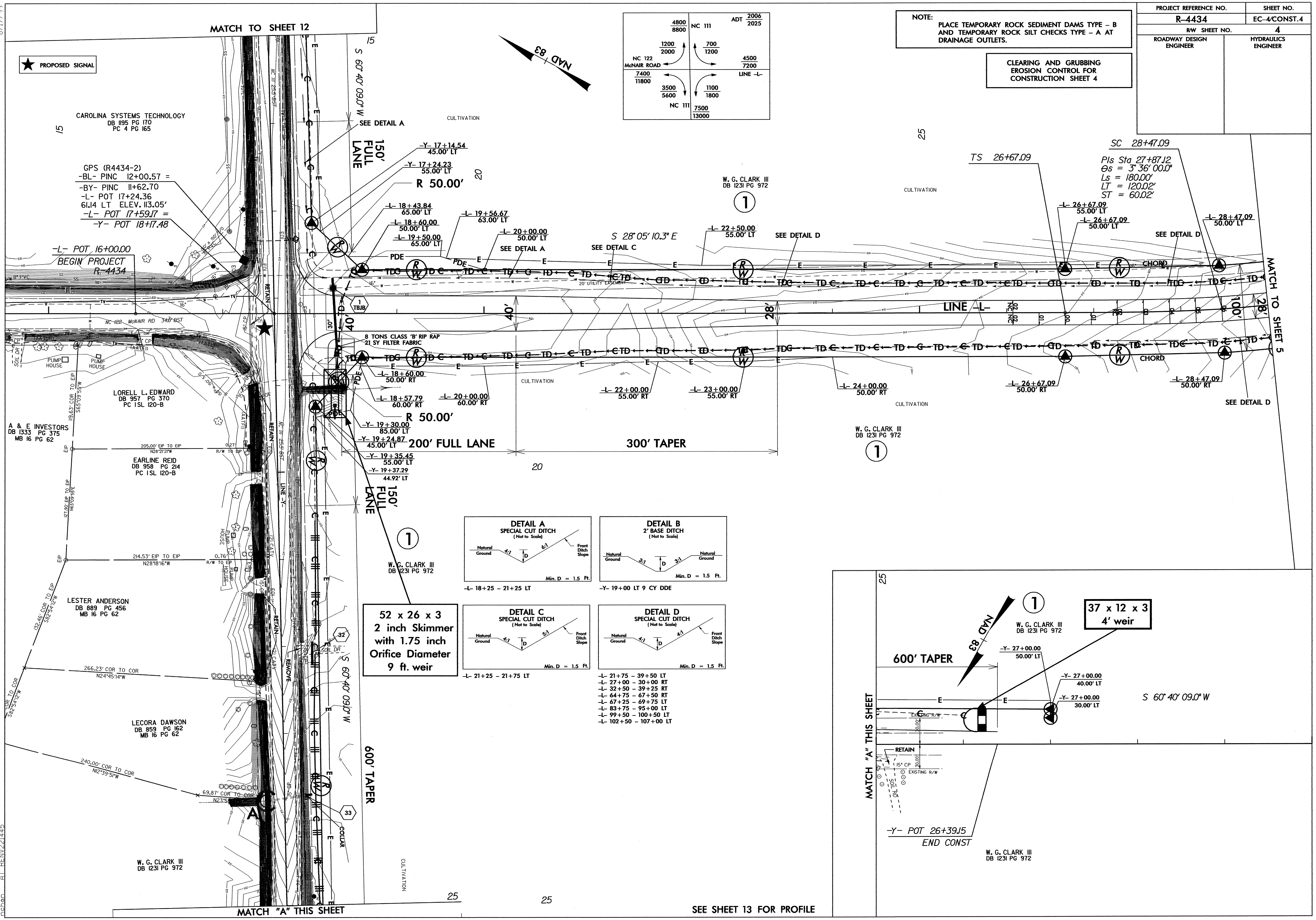

DETAIL A
SPECIAL CUT DITCH
(Not to Scale)
Natural Ground — 4:1 — D — 6:1 — Front Ditch Slope
Min. D = 1.5 Ft.
-L- 18+25 - 21+25 LT

DETAIL B
2' BASE DITCH
(Not to Scale)
Natural Ground — 3:1 — D — 3:1 — Natural Ground
Min. D = 1.5 Ft.
-Y- 19+00 LT 9 CY DDE

DETAIL C
SPECIAL CUT DITCH
(Not to Scale)
Natural Ground — 4:1 — D — 5:1 — Front Ditch Slope
Min. D = 1.5 Ft.
-L- 21+25 - 21+75 LT

DETAIL D
SPECIAL CUT DITCH
(Not to Scale)
Natural Ground — 4:1 — D — 6:1 — Front Ditch Slope
Min. D = 1.5 Ft.
-L- 21+75 - 39+50 LT
-L- 27+00 - 30+00 RT
-L- 32+50 - 39+25 RT
-L- 64+75 - 67+50 RT
-L- 67+25 - 69+75 LT
-L- 83+75 - 95+00 LT
-L- 99+50 - 100+50 LT
-L- 102+50 - 107+00 LT

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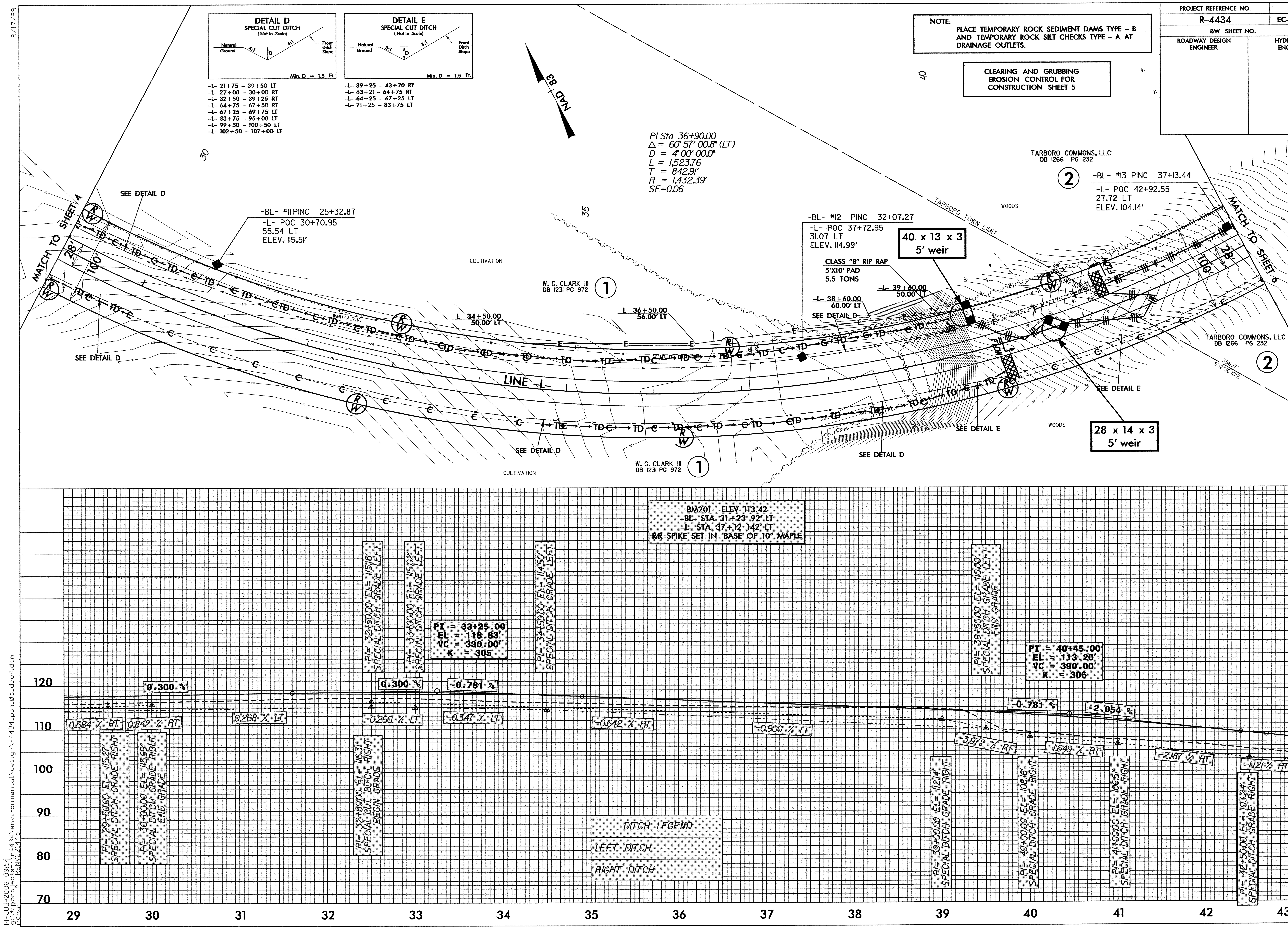
PROJECT REFERENCE NO.	SHEET NO.
R-4434	EC-5/CONST.5
RW SHEET NO.	5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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 5



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PROJECT REFERENCE NO.	SHEET NO.
R-4434	EC-6/CONST.6
R/W SHEET NO.	6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

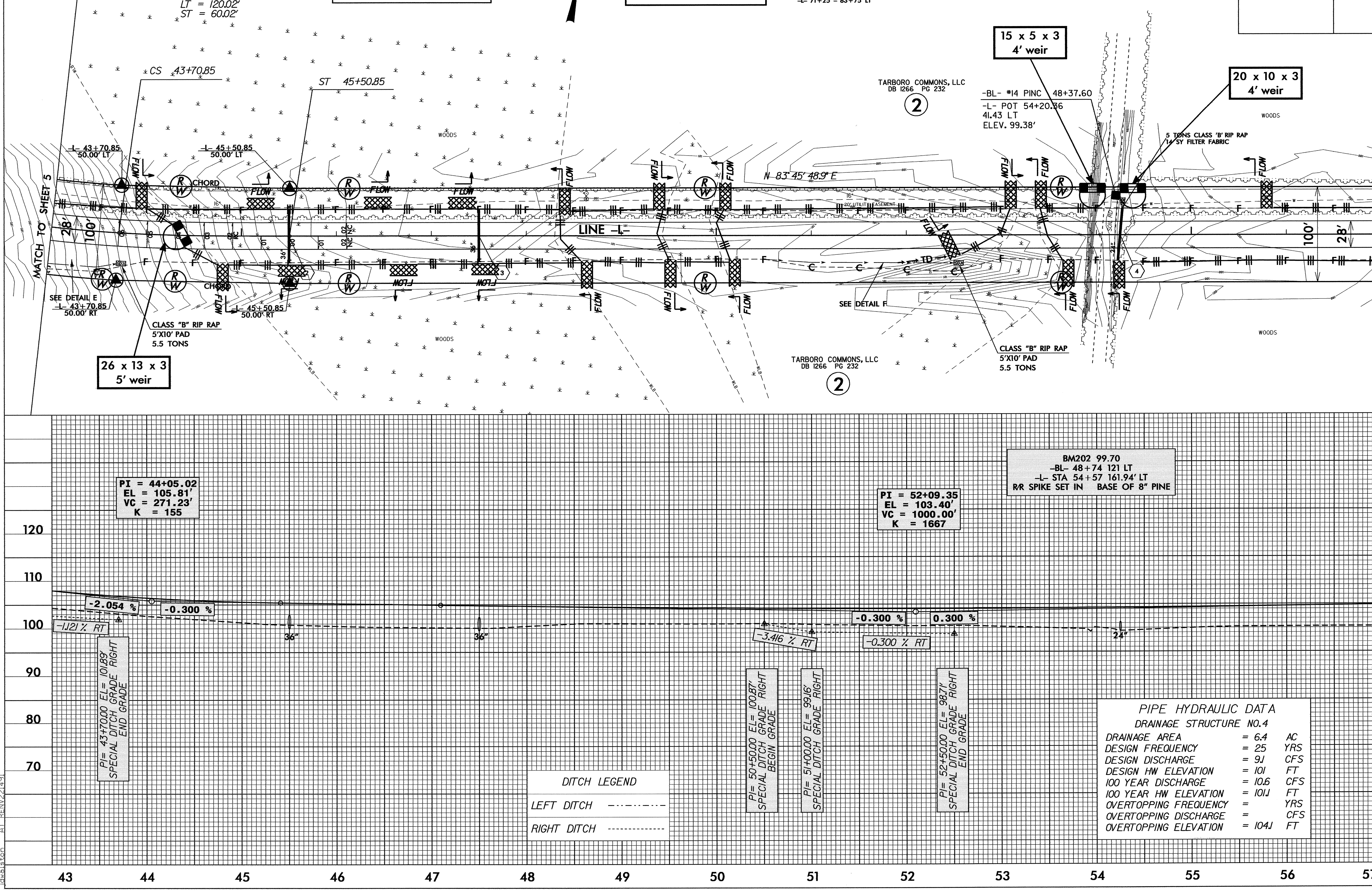
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

INSTALL FILTER FABRIC UNDER TEMPORARY ROCK SILT CHECK(S) TYPE A IN PERMITTED WETLANDS.

DETAIL E
SPECIAL CUT DITCH
(Not to Scale)
Natural Ground 3:1 D 3:1 Front Ditch Slope
Min. D = 1.5 Ft.
-L- 39+25 – 43+70 RT
-L- 63+21 – 64+75 RT
-L- 64+25 – 67+25 LT
-L- 71+25 – 83+75 LT

DETAIL F
SPECIAL CUT DITCH
(Not to Scale)
Natural Ground 3:1 D 2:1 Front Ditch Slope
Min. D = 1.5 Ft.
-L- 50+50 – 52+50 RT
-L- 63+00 – 64+25 LT



DITCH LEGEND
LEFT DITCH -·-·-·-
RIGHT DITCH ----------

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO.4

DRAINAGE AREA	= 6.4	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 9.1	CFS
DESIGN HW ELEVATION	= 101	FT
100 YEAR DISCHARGE	= 10.6	CFS
100 YEAR HW ELEVATION	= 101.1	FT
OVERTOPPING FREQUENCY	=	YRS
OVERTOPPING DISCHARGE	=	CFS
OVERTOPPING ELEVATION	= 104.1	FT

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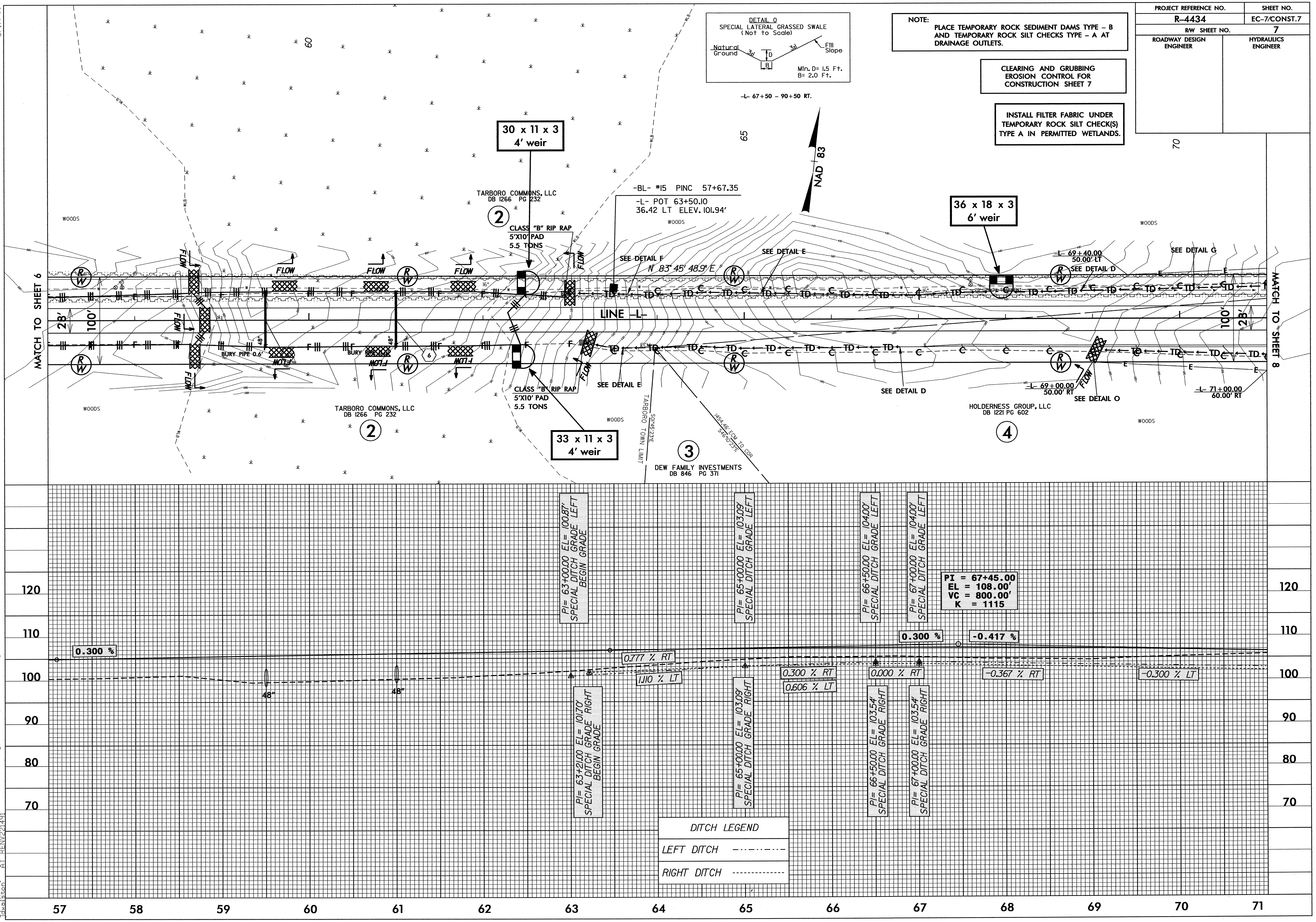
PROJECT REFERENCE NO.	SHEET NO.
R-4434	EC-7/CONST.7
RW SHEET NO.	7
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

INSTALL FILTER FABRIC UNDER TEMPORARY ROCK SILT CHECK(S) TYPE A IN PERMITTED WETLANDS.



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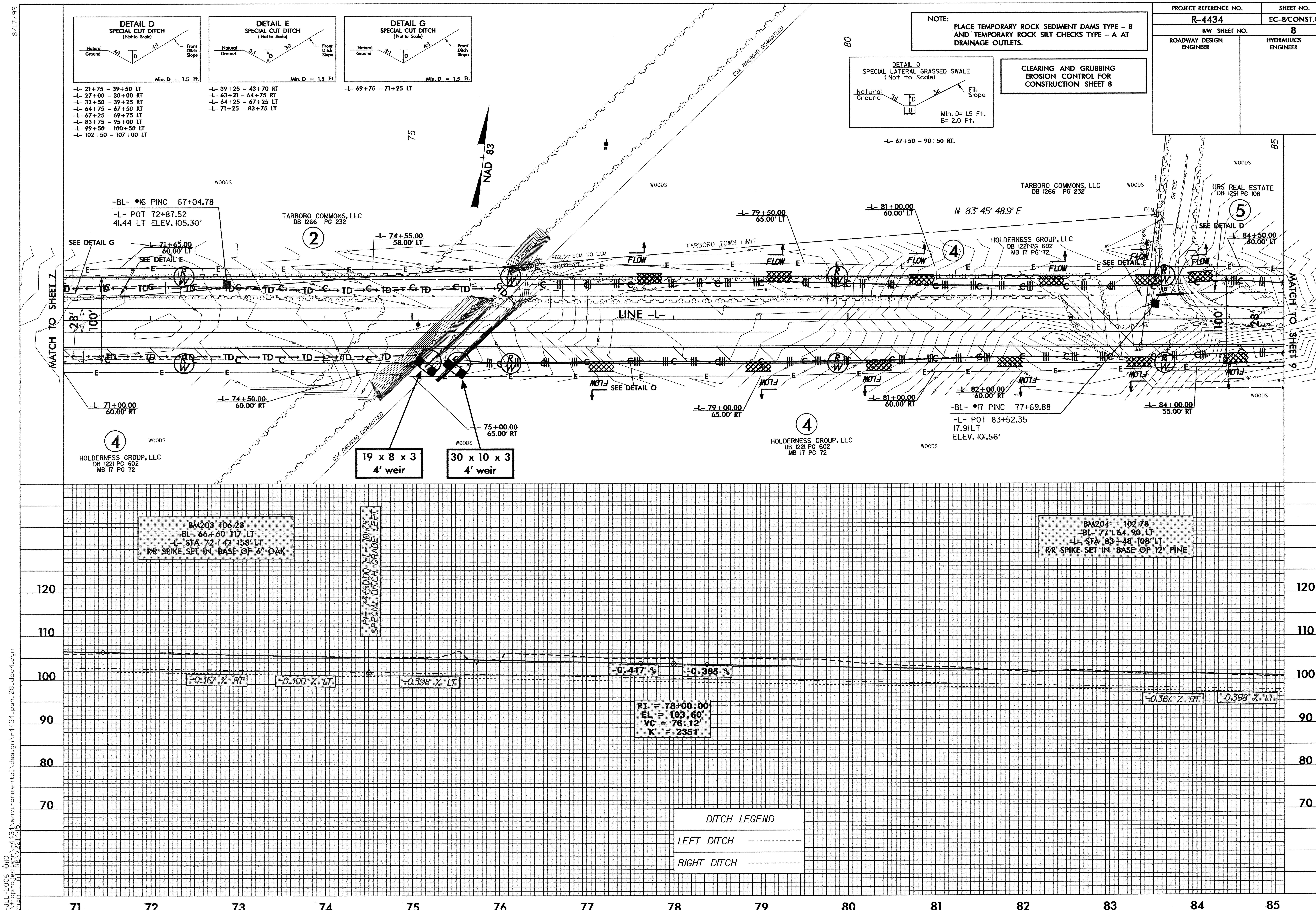

PROJECT REFERENCE NO. R-4434
SHEET NO. EC-8/CONST.8
RW SHEET NO. 8
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 8
DETAIL D
SPECIAL CUT DITCH
(Not to Scale)
Natural Ground
4:1
4:1
Front Ditch Slope
Min. D = 1.5 Ft.
-L- 21+75 – 39+50 LT
-L- 27+00 – 30+00 RT
-L- 32+50 – 39+25 RT
-L- 64+75 – 67+50 RT
-L- 67+25 – 69+75 LT
-L- 83+75 – 95+00 LT
-L- 99+50 – 100+50 LT
-L- 102+50 – 107+00 LT
DETAIL E
SPECIAL CUT DITCH
(Not to Scale)
3:1
3:1
Min. D = 1.5 Ft.
-L- 39+25 – 43+70 RT
-L- 63+21 – 64+75 RT
-L- 64+25 – 67+25 LT
-L- 71+25 – 83+75 LT
DETAIL G
SPECIAL CUT DITCH
(Not to Scale)
3:1
4:1
Min. D = 1.5 Ft.
-L- 69+75 – 71+25 LT
DETAIL O
SPECIAL LATERAL GRASSED SWALE
(Not to Scale)
Natural Ground
3:1
3:1
Fill Slope
Min. D= 1.5 Ft.
B= 2.0 Ft.
-L- 67+50 – 90+50 RT.
NAD 83
CSX RAILROAD DISMANTLED
WOODS
-BL- #16 PINC 67+04.78
-L- POT 72+87.52
41.44 LT ELEV. 105.30'
TARBORO COMMONS, LLC
DB 1266 PG 232
SEE DETAIL G
-L- 71+65.00
60.00' LT
SEE DETAIL E
-L- 74+55.00
58.00' LT
1962.34' ECM TO ECM
TARBORO TOWN LIMIT
FLOW
-L- 79+50.00
65.00' LT
-L- 81+00.00
60.00' LT
N 83° 45' 48.9" E
HOLDERNESS GROUP, LLC
DB 1221 PG 602
MB 17 PG 72
SEE DETAIL E
URS REAL ESTATE
DB 1291 PG 108
SEE DETAIL D
-L- 84+50.00
60.00' LT
SOIL RD
MATCH TO SHEET 7
MATCH TO SHEET 9
LINE -L-
28'
100'
SEE DETAIL O
-L- 71+00.00
60.00' RT
-L- 74+50.00
60.00' RT
-L- 75+00.00
65.00' RT
-L- 79+00.00
65.00' RT
-L- 81+00.00
60.00' RT
-L- 82+00.00
60.00' RT
-BL- #17 PINC 77+69.88
-L- POT 83+52.35
17.91 LT
ELEV. 101.56'
-L- 84+00.00
55.00' RT
19 x 8 x 3
4' weir
30 x 10 x 3
4' weir
BM203 106.23
-BL- 66+60 117 LT
-L- STA 72+42 158' LT
R/R SPIKE SET IN BASE OF 6" OAK
PI= 74+50.00 EL= 101.75'
SPECIAL DITCH GRADE LEFT
BM204 102.78
-BL- 77+64 90 LT
-L- STA 83+48 108' LT
R/R SPIKE SET IN BASE OF 12" PINE
-0.367 % RT
-0.300 % LT
-0.398 % LT
-0.417 %
-0.385 %
-0.367 % RT
-0.398 % LT
PI = 78+00.00
EL = 103.60'
VC = 76.12'
K = 2351
DITCH LEGEND
LEFT DITCH
RIGHT DITCH
120
110
100
90
80
70
71
72
73
74
75
76
77
78
79
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81
82
83
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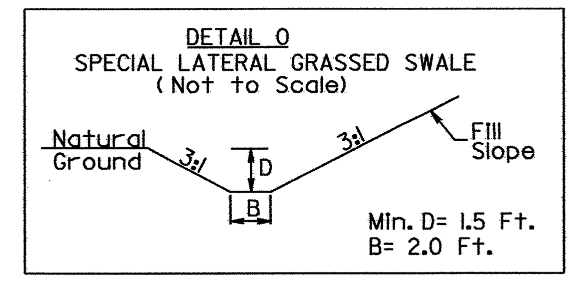
PROJECT REFERENCE NO.	SHEET NO.
R-4434	EC-9/CONST.9
R/W SHEET NO.	9
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

8/17/99

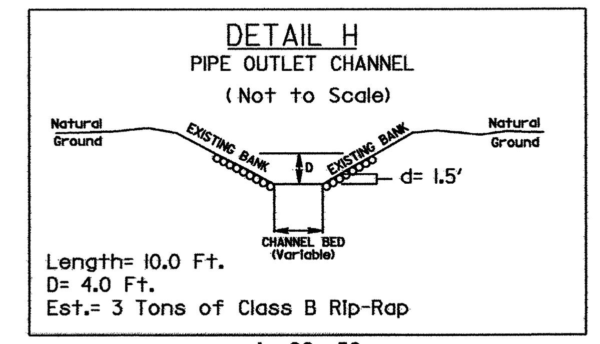
ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

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

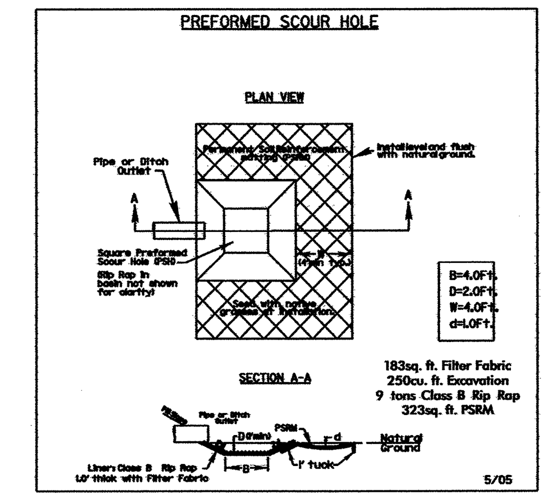
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 9



-L- 67+50 – 90+50 RT.

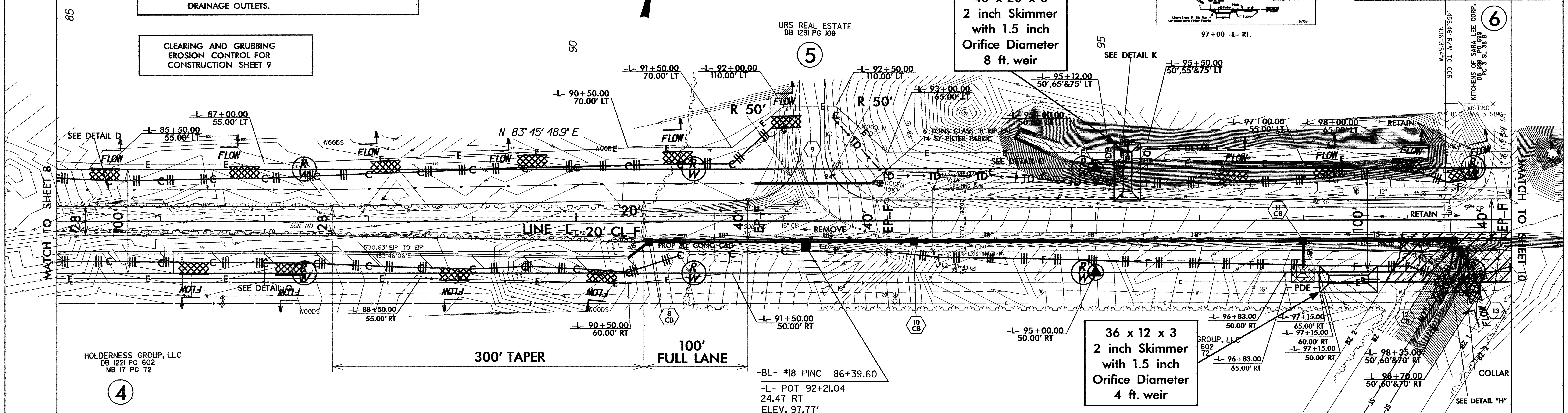


-L- 98+50

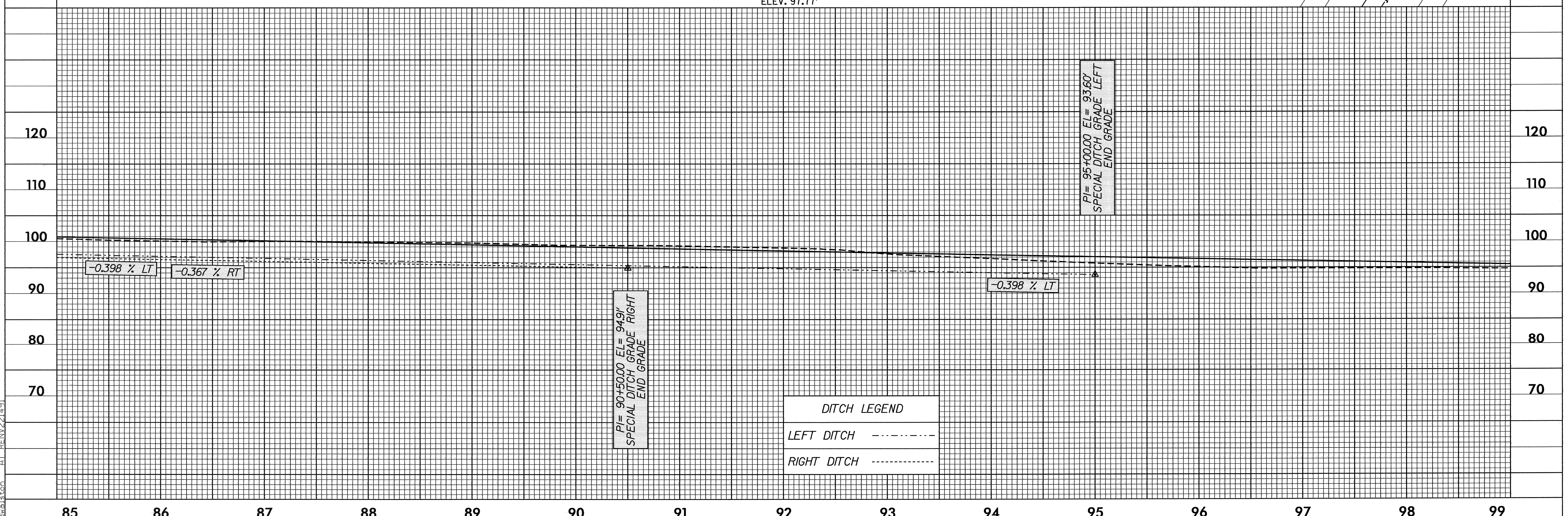


97+00 -L- RT.

40 x 20 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
8 ft. weir



36 x 12 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
4 ft. weir



DITCH LEGEND	
LEFT DITCH	-·-·-·-
RIGHT DITCH	------------

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PROJECT REFERENCE NO.	SHEET NO.
R-4434	EC-10/CONST.10
R/W SHEET NO.	10
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

8/17/99

DETAIL D
SPECIAL CUT DITCH
(Not to Scale)

Natural Ground 4:1 D 4:1 Front Ditch Slope

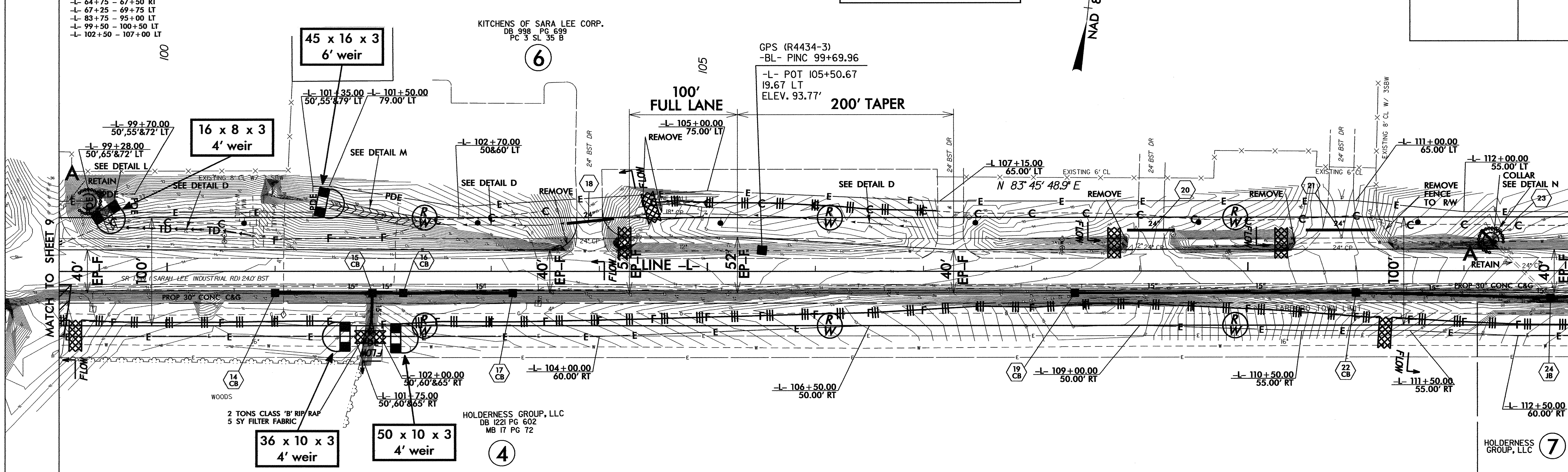
Min. D = 1.5 Ft.

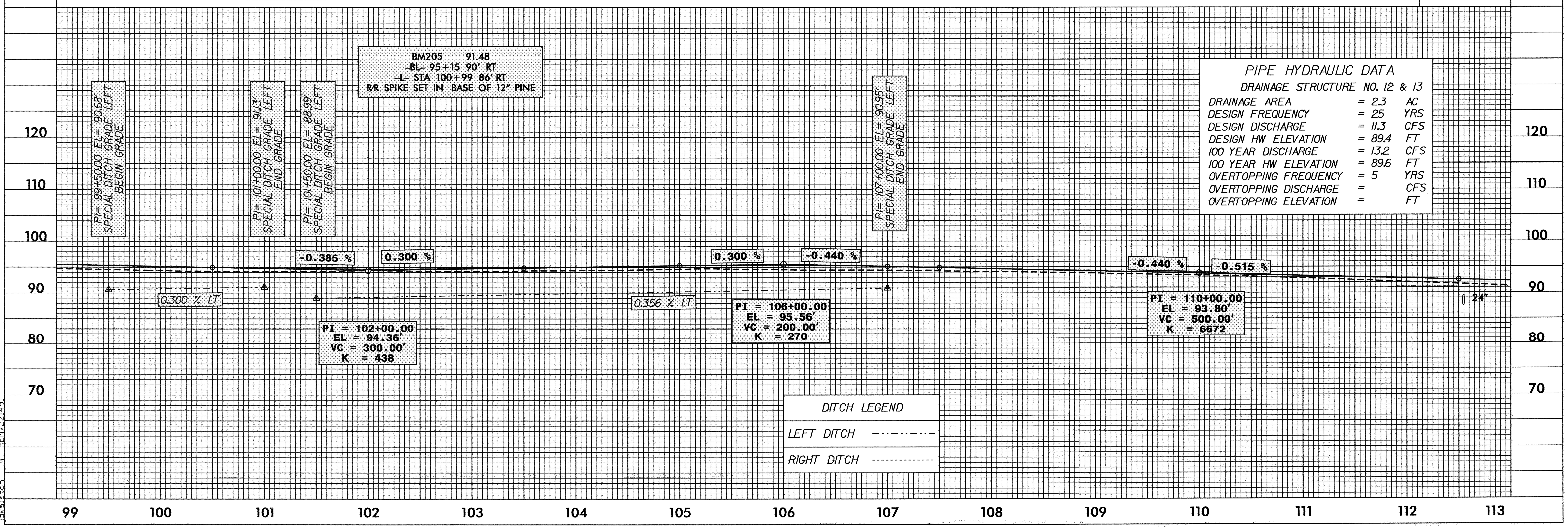
-L- 21+75 - 39+50 LT
-L- 27+00 - 30+00 RT
-L- 32+50 - 39+25 RT
-L- 64+75 - 67+50 RT
-L- 67+25 - 69+75 LT
-L- 83+75 - 95+00 LT
-L- 99+50 - 100+50 LT
-L- 102+50 - 107+00 LT

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

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 10





PIPE HYDRAULIC DATA

DRAINAGE STRUCTURE NO. 12 & 13

DRAINAGE AREA	= 2.3	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 11.3	CFS
DESIGN HW ELEVATION	= 89.4	FT
100 YEAR DISCHARGE	= 13.2	CFS
100 YEAR HW ELEVATION	= 89.6	FT
OVERTOPPING FREQUENCY	= 5	YRS
OVERTOPPING DISCHARGE	=	CFS
OVERTOPPING ELEVATION	=	FT

DITCH LEGEND

LEFT DITCH	-·-·-·-·-
RIGHT DITCH	------------

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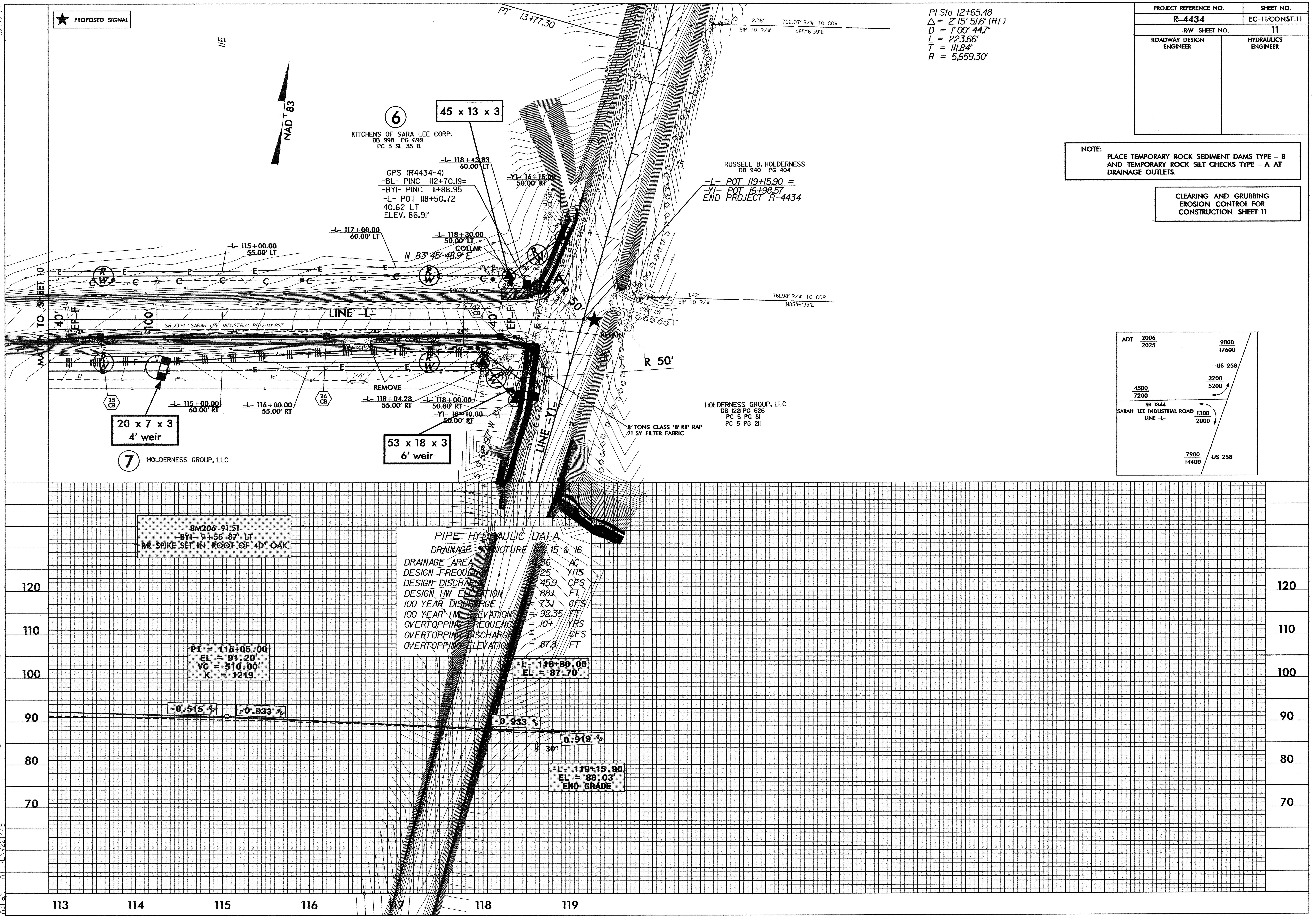
PROJECT REFERENCE NO.	SHEET NO.
R-4434	EC-11/CONST.11
RW SHEET NO.	11
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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 11



PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO. 15 & 16

DRAINAGE AREA	= 1.36	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 45.9	CFS
DESIGN HW ELEVATION	= 88.1	FT
100 YEAR DISCHARGE	= 73.1	CFS
100 YEAR HW ELEVATION	= 92.35	FT
OVERTOPPING FREQUENCY	= 10+	YRS
OVERTOPPING DISCHARGE	=	CFS
OVERTOPPING ELEVATION	= 87.8	FT

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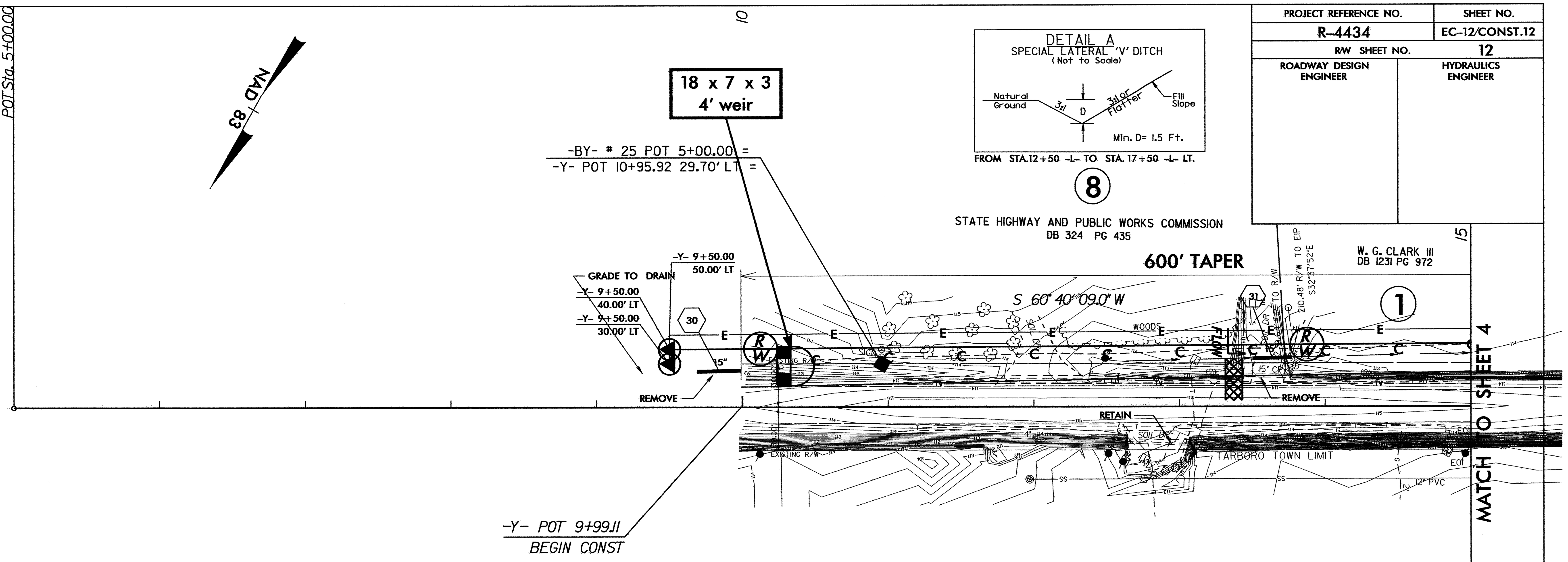
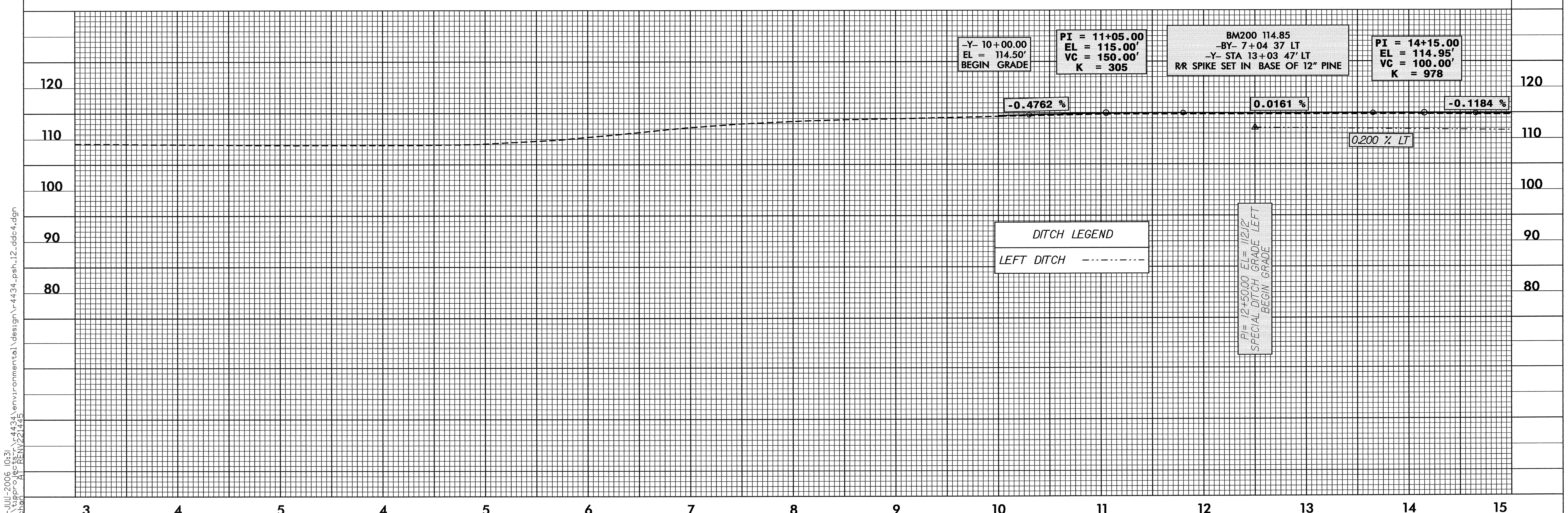
PROJECT REFERENCE NO.	SHEET NO.
R-4434	EC-12/CONST.12
RW SHEET NO.	12
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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 12





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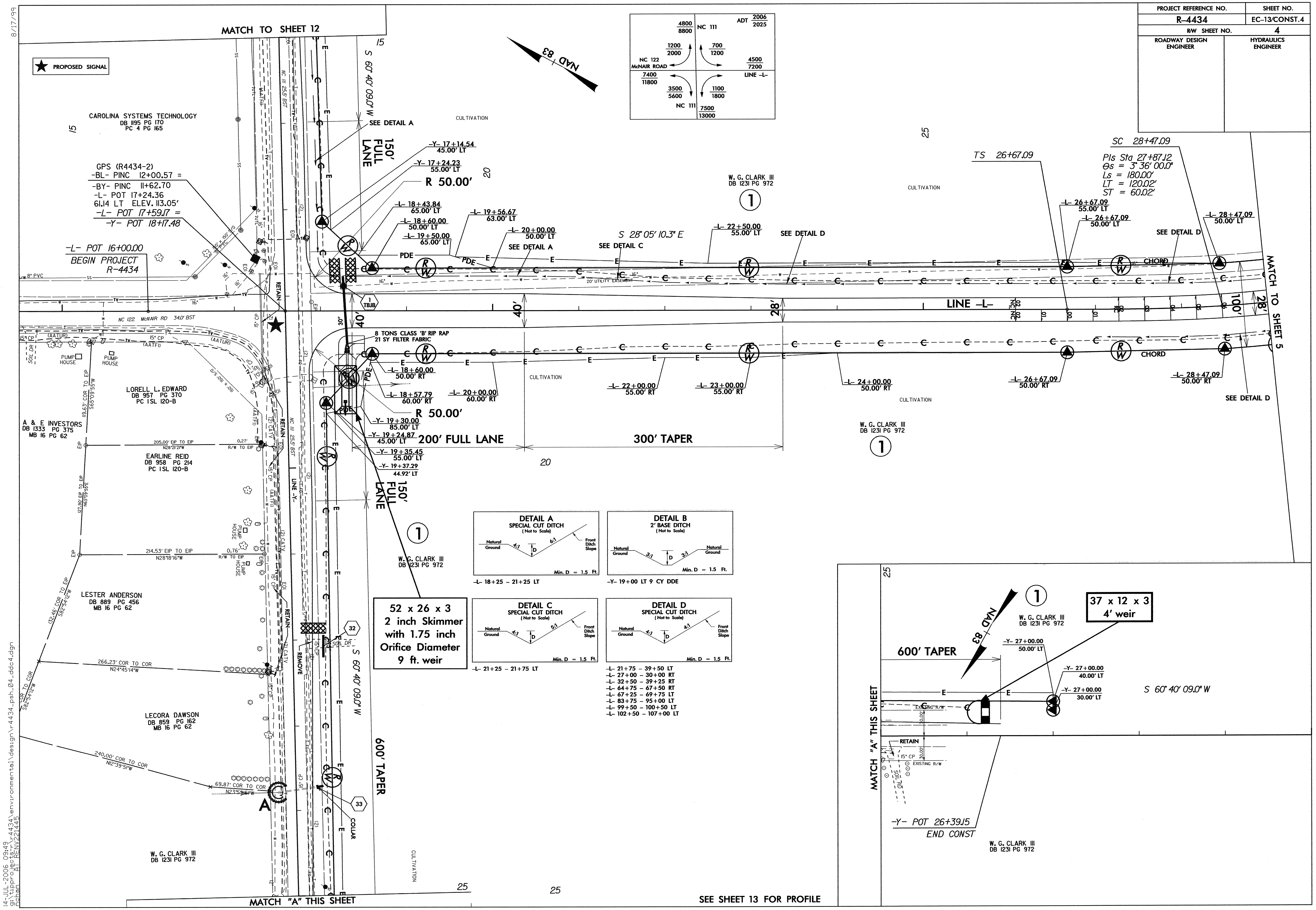

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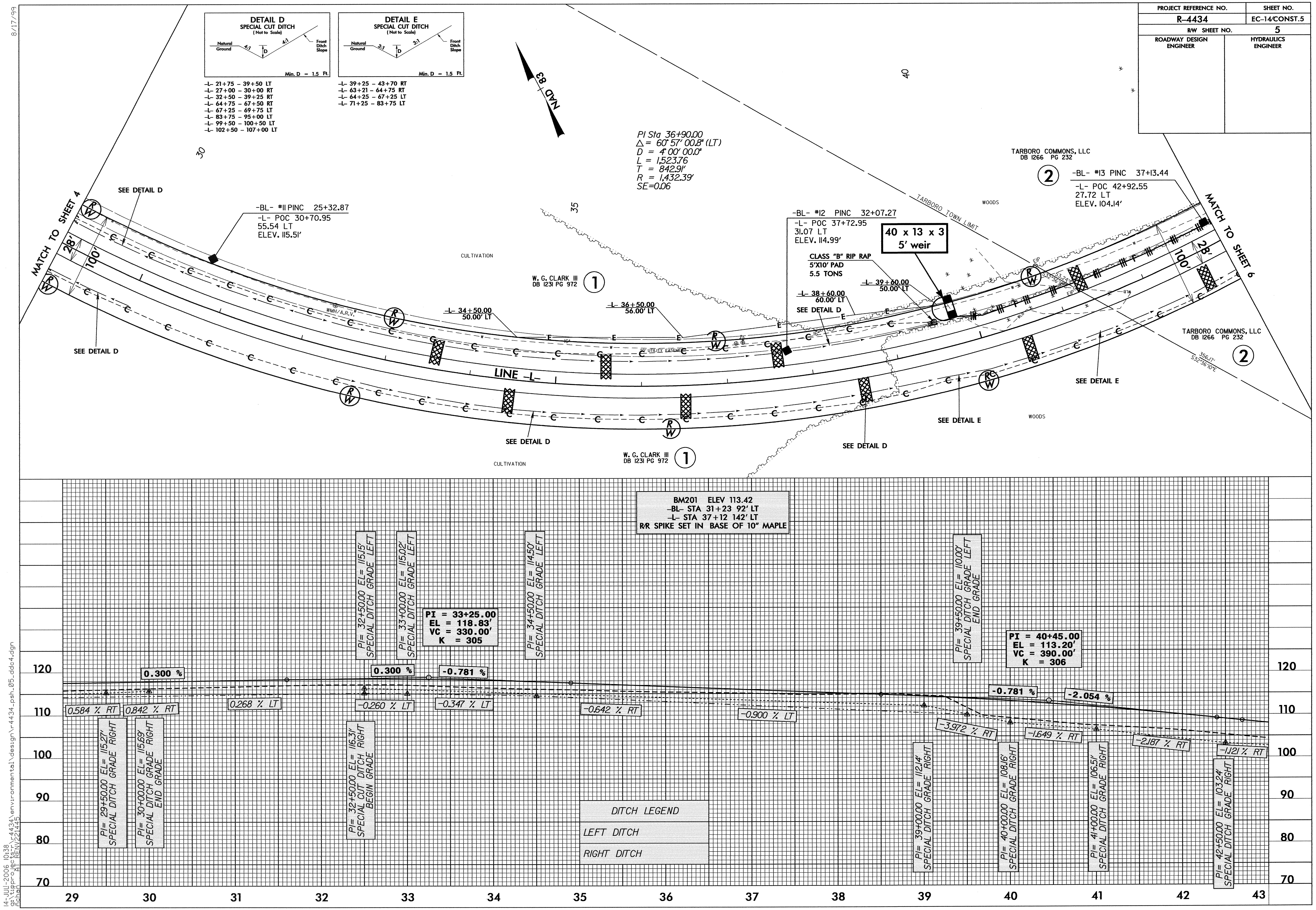

PROJECT REFERENCE NO. R-4434
SHEET NO. EC-14/CONST.5
RW SHEET NO. 5
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
DETAIL D
SPECIAL CUT DITCH
(Not to Scale)
Natural Ground
4:1
D
Front Ditch Slope
Min. D = 1.5 Ft.
-L- 21+75 - 39+50 LT
-L- 27+00 - 30+00 RT
-L- 32+50 - 39+25 RT
-L- 64+75 - 67+50 RT
-L- 67+25 - 69+75 LT
-L- 83+75 - 95+00 LT
-L- 99+50 - 100+50 LT
-L- 102+50 - 107+00 LT
DETAIL E
SPECIAL CUT DITCH
(Not to Scale)
Natural Ground
3:1
D
Front Ditch Slope
Min. D = 1.5 Ft.
-L- 39+25 - 43+70 RT
-L- 63+21 - 64+75 RT
-L- 64+25 - 67+25 LT
-L- 71+25 - 83+75 LT
NAD 83
PI Sta 36+90.00
Δ = 60° 57' 00.8" (LT)
D = 4° 00' 00.0"
L = 1,523.76
T = 842.91'
R = 1,432.39'
SE=0.06
MATCH TO SHEET 4
MATCH TO SHEET 6
SEE DETAIL D
-BL- #11 PINC 25+32.87
-L- POC 30+70.95
55.54 LT
ELEV. 115.51'
CULTIVATION
W. G. CLARK III
DB 1231 PG 972
1
-L- 34+50.00
50.00' LT
-L- 36+50.00
56.00' LT
LINE -L-
TARBORO TOWN LIMIT
WOODS
-BL- #12 PINC 32+07.27
-L- POC 37+72.95
31.07 LT
ELEV. 114.99'
40 x 13 x 3
5' weir
CLASS "B" RIP RAP
5'X10' PAD
5.5 TONS
-L- 39+60.00
50.00' LT
-L- 38+60.00
60.00' LT
TARBORO COMMONS, LLC
DB 1266 PG 232
2
-BL- #13 PINC 37+13.44
-L- POC 42+92.55
27.72 LT
ELEV. 104.14'
SEE DETAIL E
BM201 ELEV 113.42
-BL- STA 31+23 92' LT
-L- STA 37+12 142' LT
R/R SPIKE SET IN BASE OF 10" MAPLE
PI = 33+25.00
EL = 118.83'
VC = 330.00'
K = 305
PI = 40+45.00
EL = 113.20'
VC = 390.00'
K = 306
0.300 %
0.300 %
-0.781 %
-0.781 %
-2.054 %
0.584 % RT
0.842 % RT
0.268 % LT
-0.260 % LT
-0.347 % LT
-0.642 % RT
-0.900 % LT
-3.972 % RT
-1.649 % RT
-2.187 % RT
-1.121 % RT
PI= 29+50.00 EL= 115.27' SPECIAL DITCH GRADE RIGHT
PI= 30+00.00 EL= 115.69' SPECIAL DITCH GRADE RIGHT END GRADE
PI= 32+50.00 EL= 116.31' SPECIAL CUT DITCH RIGHT BEGIN GRADE
PI= 32+50.00 EL= 115.15' SPECIAL DITCH GRADE LEFT
PI= 33+00.00 EL= 115.02' SPECIAL DITCH GRADE LEFT
PI= 34+50.00 EL= 114.50' SPECIAL DITCH GRADE LEFT
PI= 39+50.00 EL= 110.00' SPECIAL DITCH GRADE LEFT END GRADE
PI= 39+00.00 EL= 112.14' SPECIAL DITCH GRADE RIGHT
PI= 40+00.00 EL= 108.16' SPECIAL DITCH GRADE RIGHT
PI= 41+00.00 EL= 106.51' SPECIAL DITCH GRADE RIGHT
PI= 42+50.00 EL= 103.24' SPECIAL DITCH GRADE RIGHT
DITCH LEGEND
LEFT DITCH
RIGHT DITCH
120
110
100
90
80
70
29
30
31
32
33
34
35
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43
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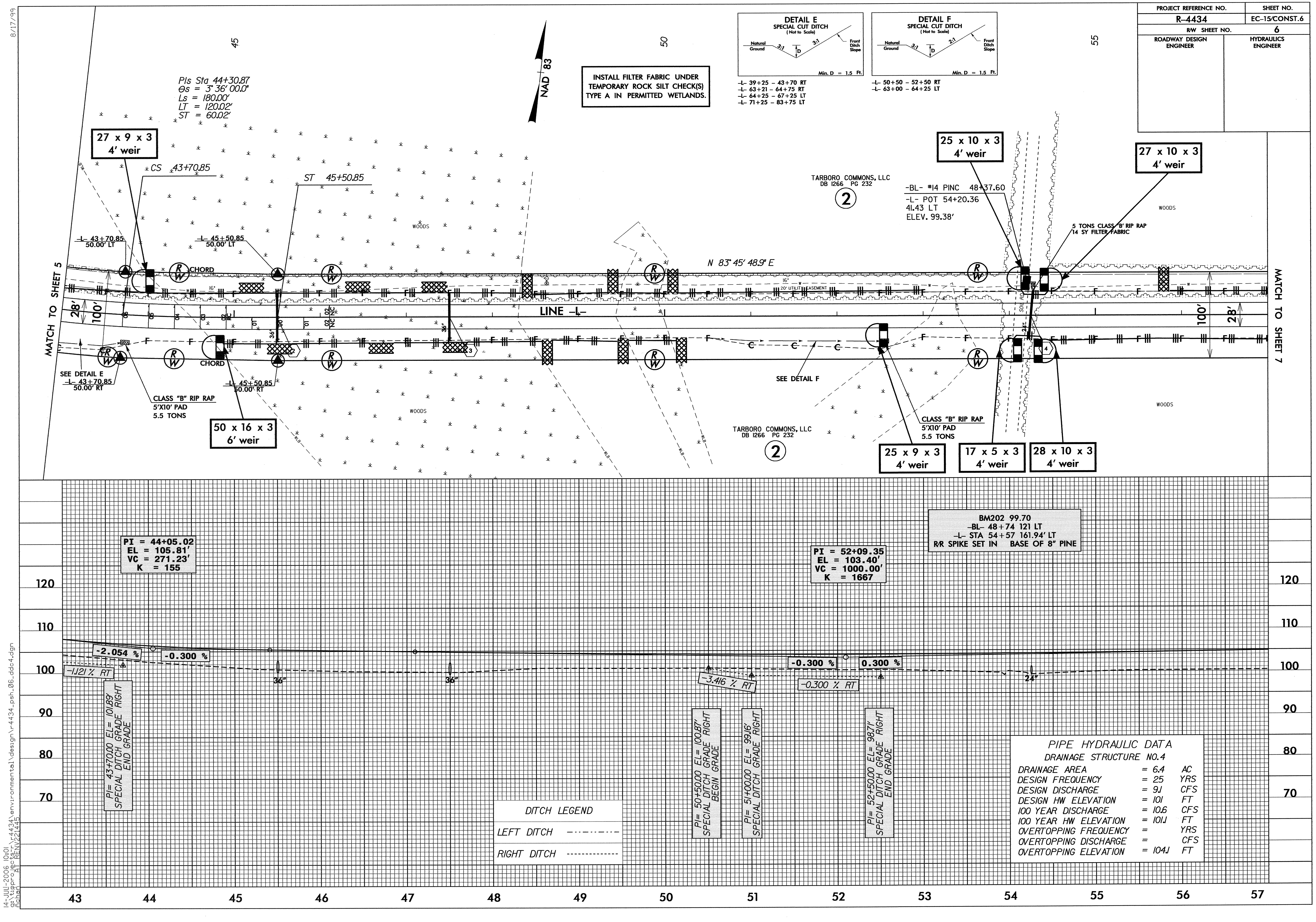
PROJECT REFERENCE NO. R-4434
SHEET NO. EC-15/CONST.6
R/W SHEET NO. 6
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
DETAIL E
SPECIAL CUT DITCH
(Not to Scale)
Natural Ground
Front Ditch Slope
Min. D = 1.5 Ft.
-L- 39+25 - 43+70 RT
-L- 63+21 - 64+75 RT
-L- 64+25 - 67+25 LT
-L- 71+25 - 83+75 LT
DETAIL F
SPECIAL CUT DITCH
(Not to Scale)
Min. D = 1.5 Ft.
-L- 50+50 - 52+50 RT
-L- 63+00 - 64+25 LT
INSTALL FILTER FABRIC UNDER TEMPORARY ROCK SILT CHECK(S) TYPE A IN PERMITTED WETLANDS.
NAD 83
PIs Sta 44+30.87
Θs = 3° 36' 00.0"
Ls = 180.00'
LT = 120.02'
ST = 60.02'
27 x 9 x 3
4' weir
CS 43+70.85
ST 45+50.85
-L- 43+70.85
50.00' LT
-L- 45+50.85
50.00' LT
WOODS
TARBORO COMMONS, LLC
DB 1266 PG 232
-BL- #14 PINC 48+37.60
-L- POT 54+20.36
41.43 LT
ELEV. 99.38'
25 x 10 x 3
4' weir
27 x 10 x 3
4' weir
5 TONS CLASS 'B' RIP RAP
14 SY FILTER FABRIC
N 83° 45' 48.9" E
CHORD
LINE -L-
MATCH TO SHEET 5
MATCH TO SHEET 7
SEE DETAIL E
-L- 43+70.85
50.00' RT
-L- 45+50.85
50.00' RT
CLASS "B" RIP RAP
5'X10' PAD
5.5 TONS
50 x 16 x 3
6' weir
SEE DETAIL F
25 x 9 x 3
4' weir
17 x 5 x 3
4' weir
28 x 10 x 3
4' weir
BM202 99.70
-BL- 48+74 121 LT
-L- STA 54+57 161.94' LT
R/R SPIKE SET IN BASE OF 8" PINE
PI = 44+05.02
EL = 105.81'
VC = 271.23'
K = 155
PI = 52+09.35
EL = 103.40'
VC = 1000.00'
K = 1667
-2.054 %
-0.300 %
-1.121 % RT
-3.416 % RT
-0.300 %
0.300 %
-0.300 % RT
PI= 43+70.00 EL= 101.89' SPECIAL DITCH GRADE RIGHT END GRADE
PI= 50+50.00 EL= 100.87' SPECIAL DITCH GRADE RIGHT BEGIN GRADE
PI= 51+00.00 EL= 99.16' SPECIAL DITCH GRADE RIGHT
PI= 52+50.00 EL= 98.71' SPECIAL DITCH GRADE RIGHT END GRADE
DITCH LEGEND
LEFT DITCH
RIGHT DITCH
PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO.4
DRAINAGE AREA = 6.4 AC
DESIGN FREQUENCY = 25 YRS
DESIGN DISCHARGE = 9.1 CFS
DESIGN HW ELEVATION = 101 FT
100 YEAR DISCHARGE = 10.6 CFS
100 YEAR HW ELEVATION = 101.1 FT
OVERTOPPING FREQUENCY = YRS
OVERTOPPING DISCHARGE = CFS
OVERTOPPING ELEVATION = 104.1 FT
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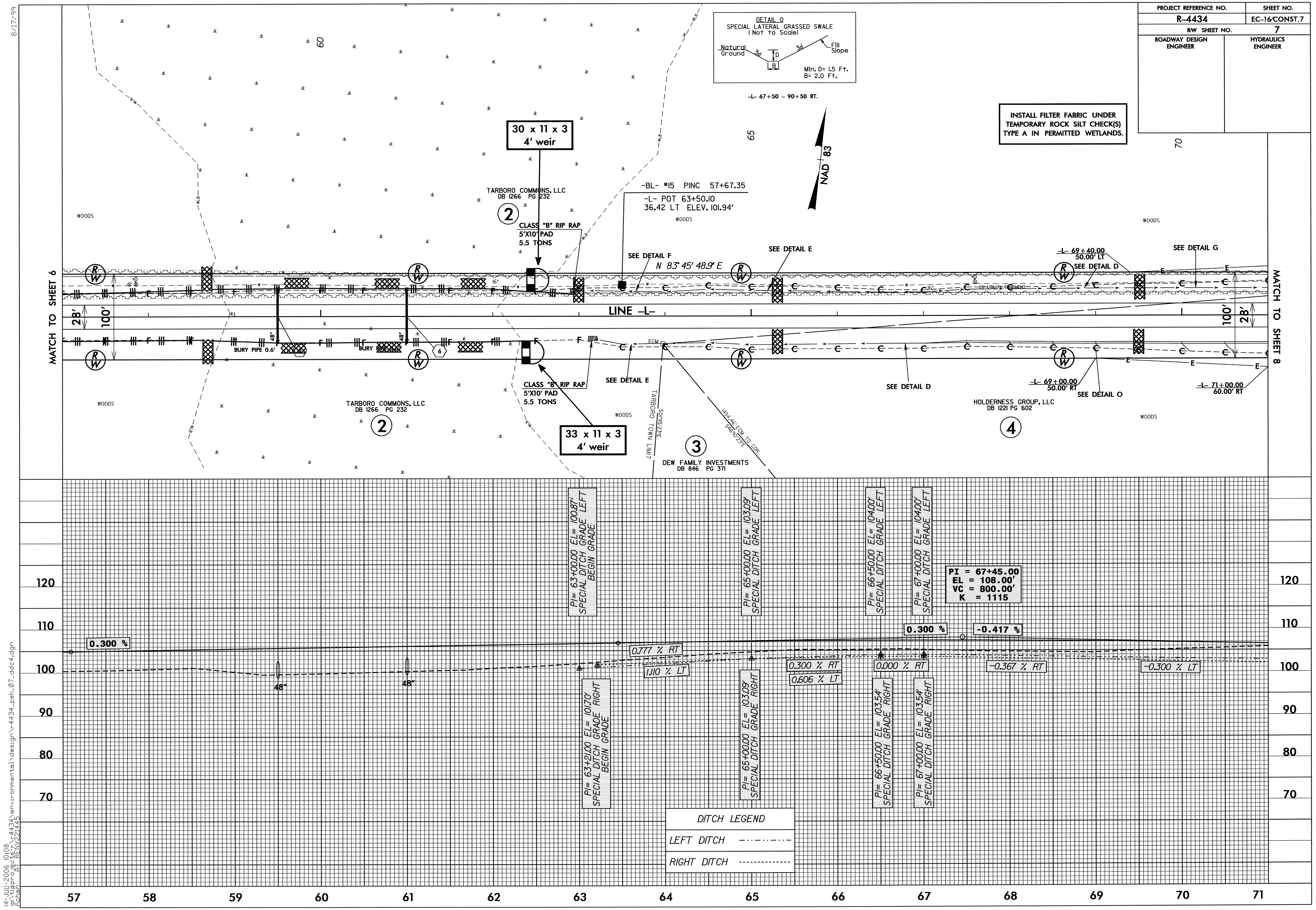

PROJECT REFERENCE NO.
R-4434
SHEET NO.
EC-16/CONST.7
R/W SHEET NO.
7
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
DETAIL O
SPECIAL LATERAL GRASSED SWALE
(Not to Scale)
Natural Ground
Fill Slope
Min. D= 1.5 Ft.
B= 2.0 Ft.
-L- 67+50 - 90+50 RT.
INSTALL FILTER FABRIC UNDER TEMPORARY ROCK SILT CHECK(S) TYPE A IN PERMITTED WETLANDS.
NAD 83
30 x 11 x 3
4' weir
33 x 11 x 3
4' weir
TARBORO COMMONS, LLC
DB 1266 PG 232
CLASS "B" RIP RAP
5'X10' PAD
5.5 TONS
-BL- #15 PINC 57+67.35
-L- POT 63+50.10
36.42 LT ELEV. 101.94'
WOODS
SEE DETAIL F
N 83° 45' 48.9" E
SEE DETAIL E
SEE DETAIL D
SEE DETAIL G
SEE DETAIL O
-L- 69+40.00
50.00' LT
-L- 69+00.00
50.00' RT
-L- 71+00.00
60.00' RT
LINE -L-
MATCH TO SHEET 6
MATCH TO SHEET 8
BURY PIPE 0.6'
TARBORO TOWN LIMIT
DEW FAMILY INVESTMENTS
DB 846 PG 371
HOLDERNESS GROUP, LLC
DB 1221 PG 602
PI= 63+00.00 EL= 100.87' SPECIAL DITCH GRADE LEFT BEGIN GRADE
PI= 65+00.00 EL= 103.09' SPECIAL DITCH GRADE LEFT
PI= 66+50.00 EL= 104.00' SPECIAL DITCH GRADE LEFT
PI= 67+00.00 EL= 104.00' SPECIAL DITCH GRADE LEFT
PI = 67+45.00
EL = 108.00'
VC = 800.00'
K = 1115
0.300 %
-0.417 %
0.777 % RT
1.110 % LT
0.300 % RT
0.606 % LT
0.000 % RT
-0.367 % RT
-0.300 % LT
PI= 63+21.00 EL= 101.70' SPECIAL DITCH GRADE RIGHT BEGIN GRADE
PI= 65+00.00 EL= 103.09' SPECIAL DITCH GRADE RIGHT
PI= 66+50.00 EL= 103.54' SPECIAL DITCH GRADE RIGHT
PI= 67+00.00 EL= 103.54' SPECIAL DITCH GRADE RIGHT
DITCH LEGEND
LEFT DITCH
RIGHT DITCH
120
110
100
90
80
70
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
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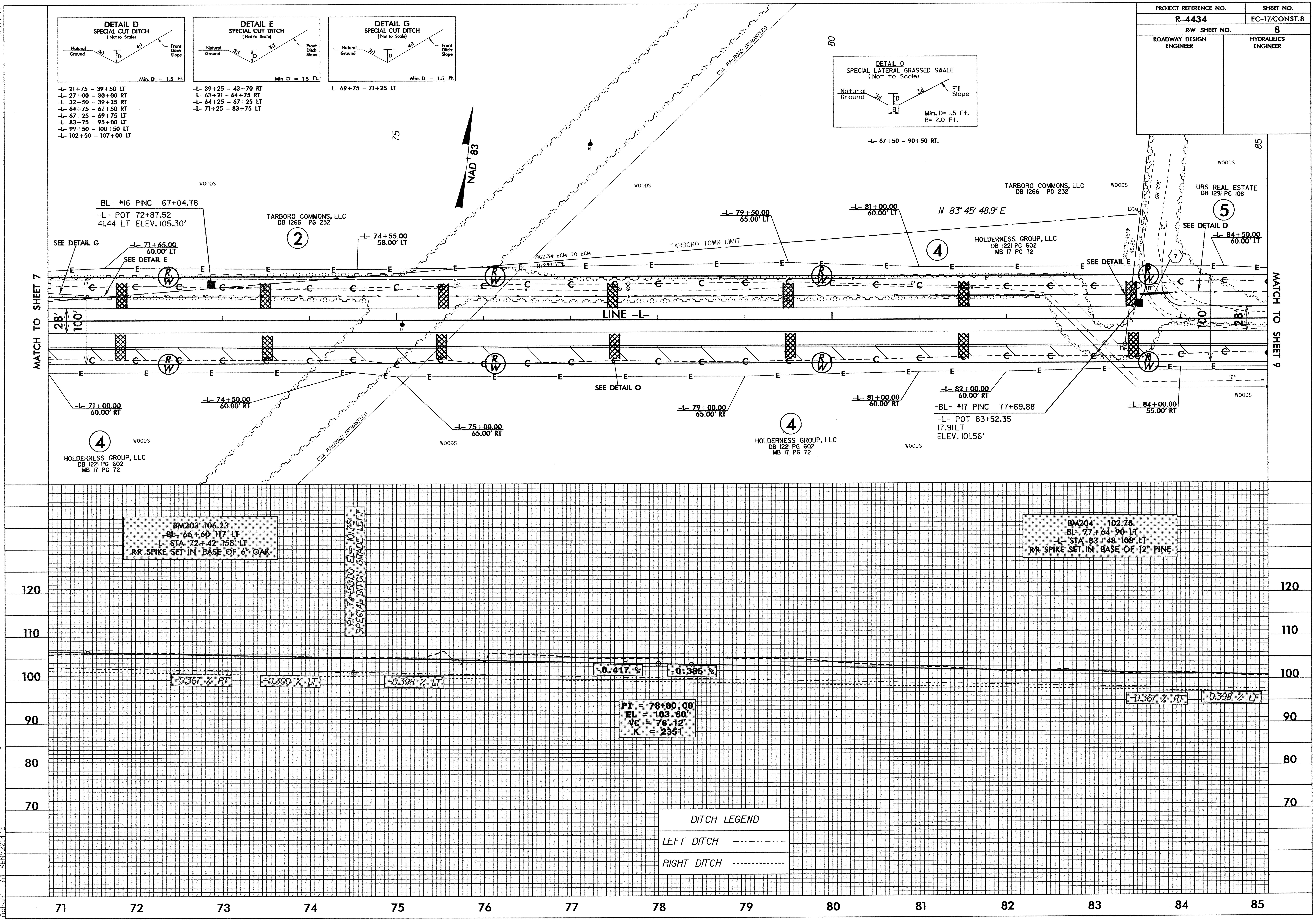
PROJECT REFERENCE NO.	SHEET NO.
R-4434	EC-17/CONST.8
RW SHEET NO.	8
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



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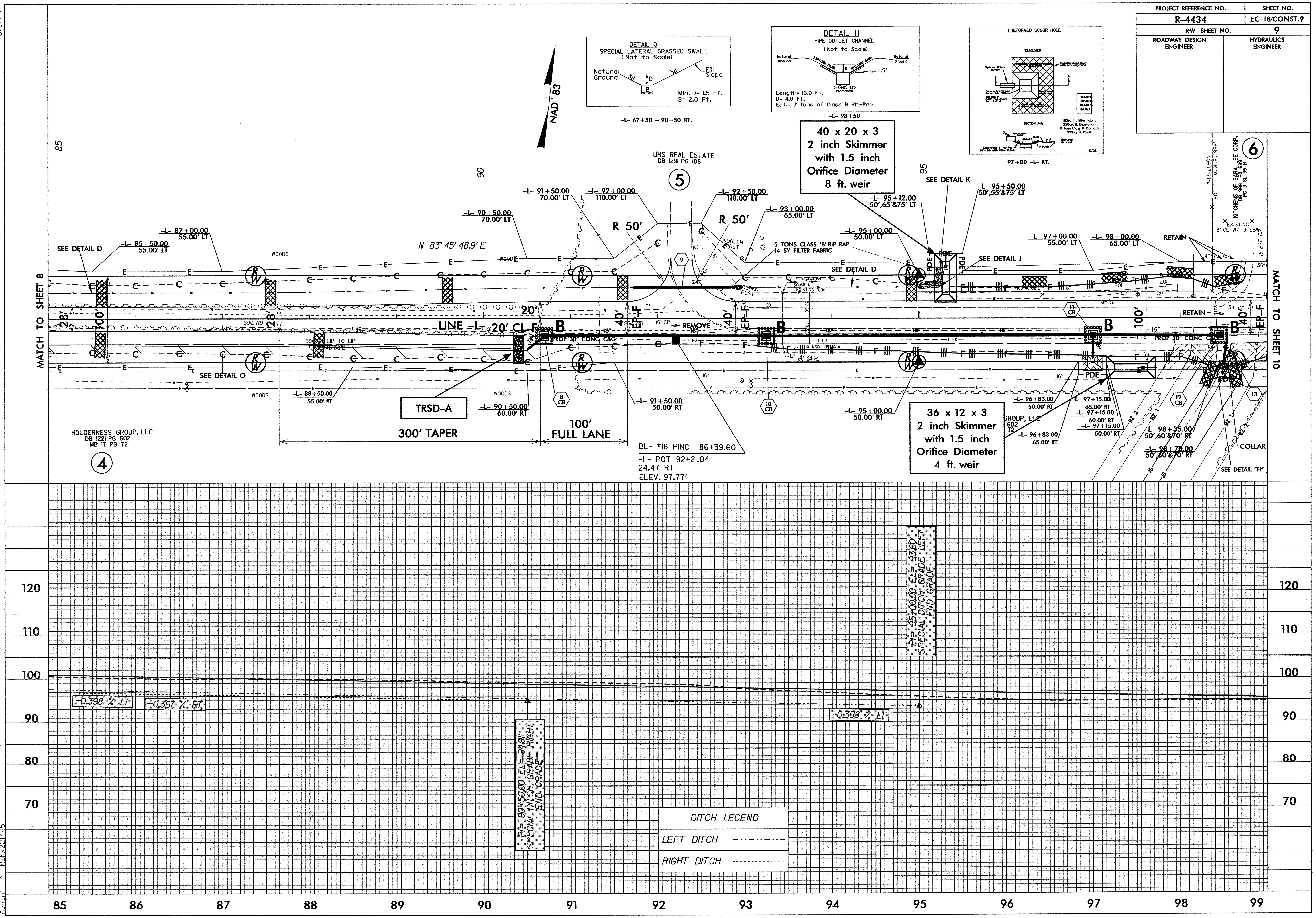
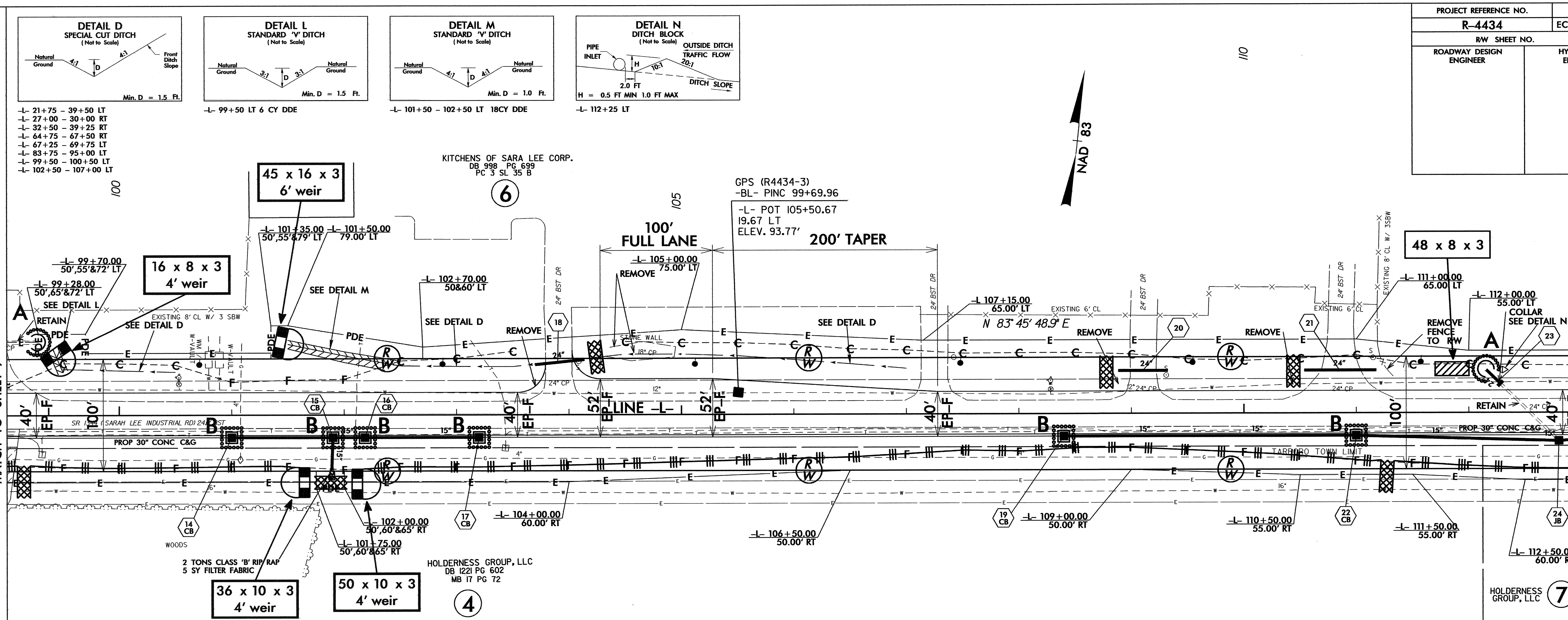
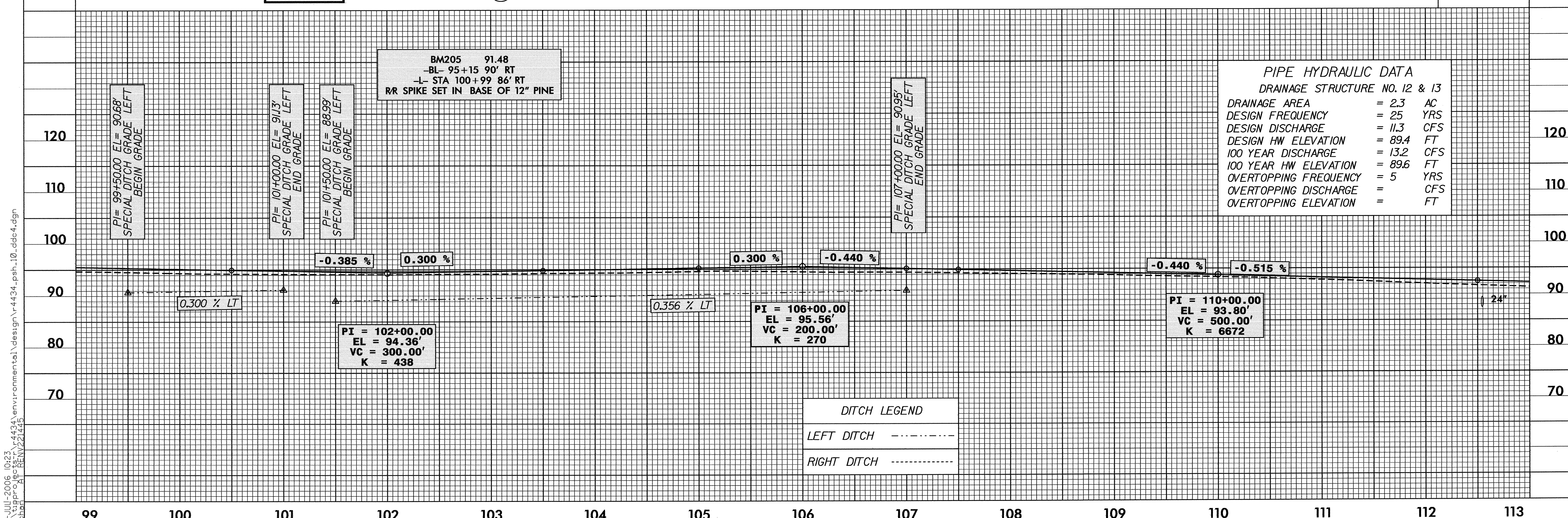
PROJECT REFERENCE NO.	SHEET NO.
R-4434	EC-18/CONST.9
RW SHEET NO.	9
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



PROJECT REFERENCE NO.	SHEET NO.
R-4434	EC-19/CONST.10
R/W SHEET NO.	10
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER





PIPE HYDRAULIC DATA

DRAINAGE STRUCTURE NO. 12 & 13

DRAINAGE AREA	= 2.3	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 11.3	CFS
DESIGN HW ELEVATION	= 89.4	FT
100 YEAR DISCHARGE	= 13.2	CFS
100 YEAR HW ELEVATION	= 89.6	FT
OVERTOPPING FREQUENCY	= 5	YRS
OVERTOPPING DISCHARGE	=	CFS
OVERTOPPING ELEVATION	=	FT

DITCH LEGEND	
LEFT DITCH	-·-·-·-·-
RIGHT DITCH	------------

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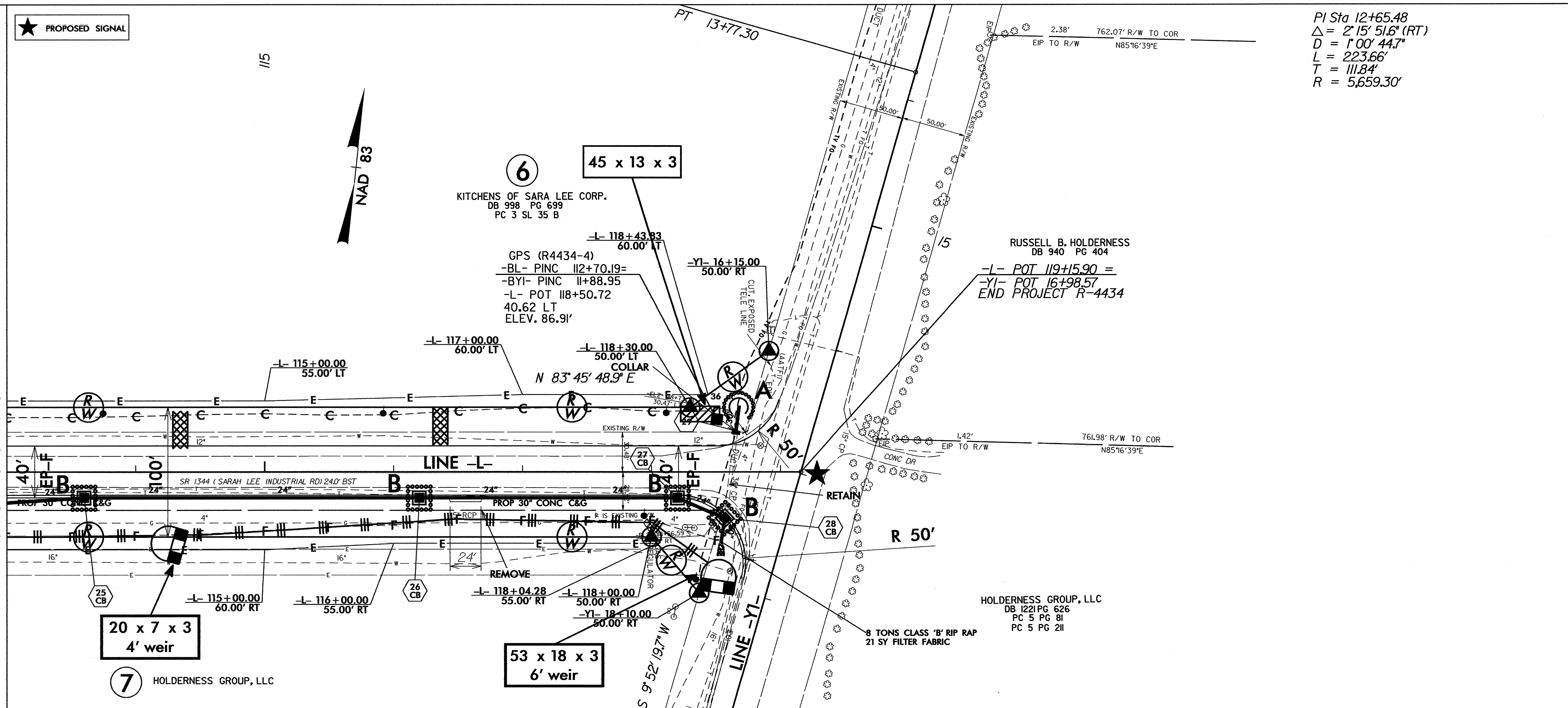
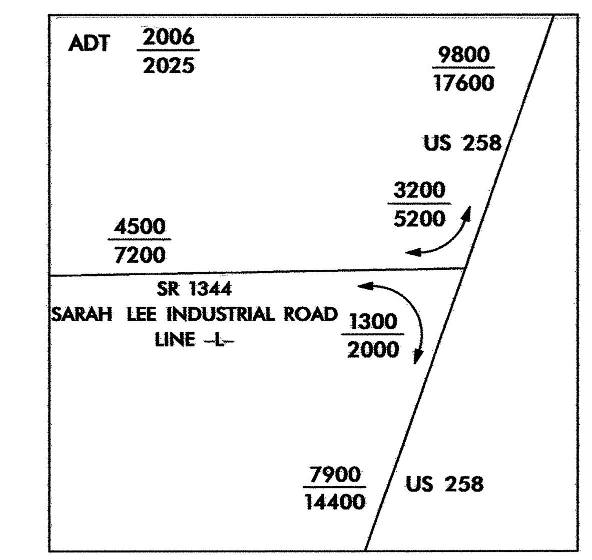
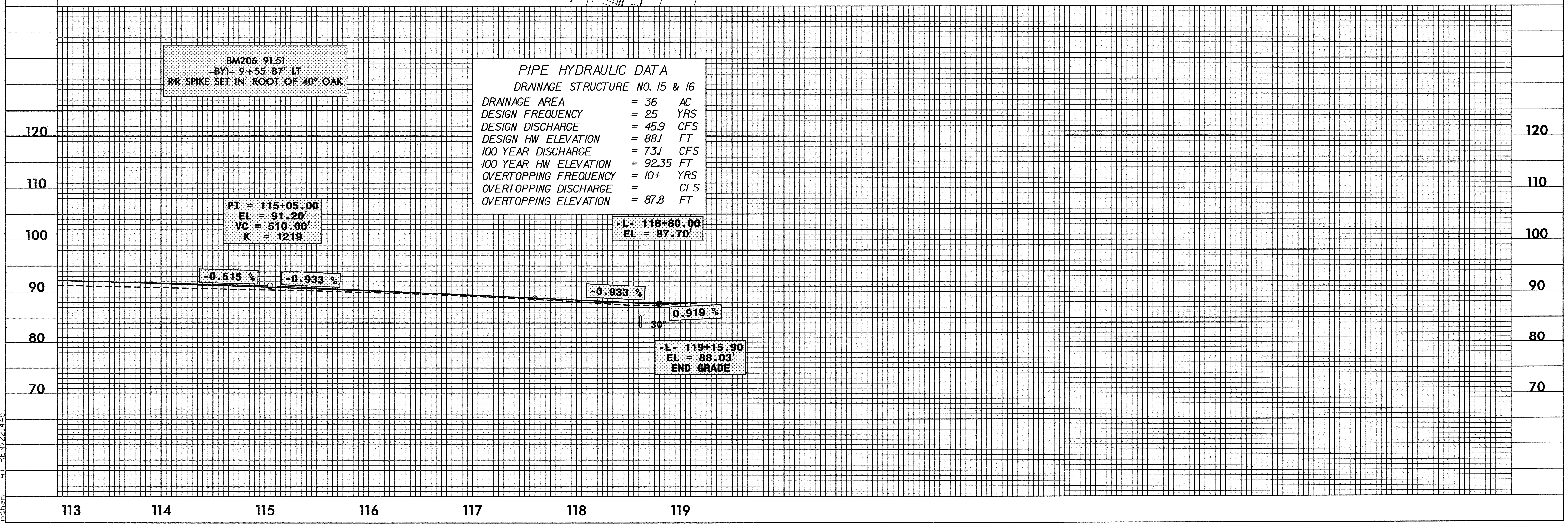
PROJECT REFERENCE NO.	SHEET NO.
R-4434	EC-20/CONST.11
RW SHEET NO.	11
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PI Sta 12+65.48
△ = 2° 15′ 51.6″ (RT)
D = 1° 00′ 44.7″
L = 223.66′
T = 111.84′
R = 5,659.30′







PIPE HYDRAULIC DATA

DRAINAGE STRUCTURE NO. 15 & 16

DRAINAGE AREA	= 36	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 45.9	CFS
DESIGN HW ELEVATION	= 88.1	FT
100 YEAR DISCHARGE	= 73.1	CFS
100 YEAR HW ELEVATION	= 92.35	FT
OVERTOPPING FREQUENCY	= 10+	YRS
OVERTOPPING DISCHARGE	=	CFS
OVERTOPPING ELEVATION	= 87.8	FT

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PROJECT REFERENCE NO.	SHEET NO.
R-4434	EC-21/CONST.12
R/W SHEET NO.	12
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER