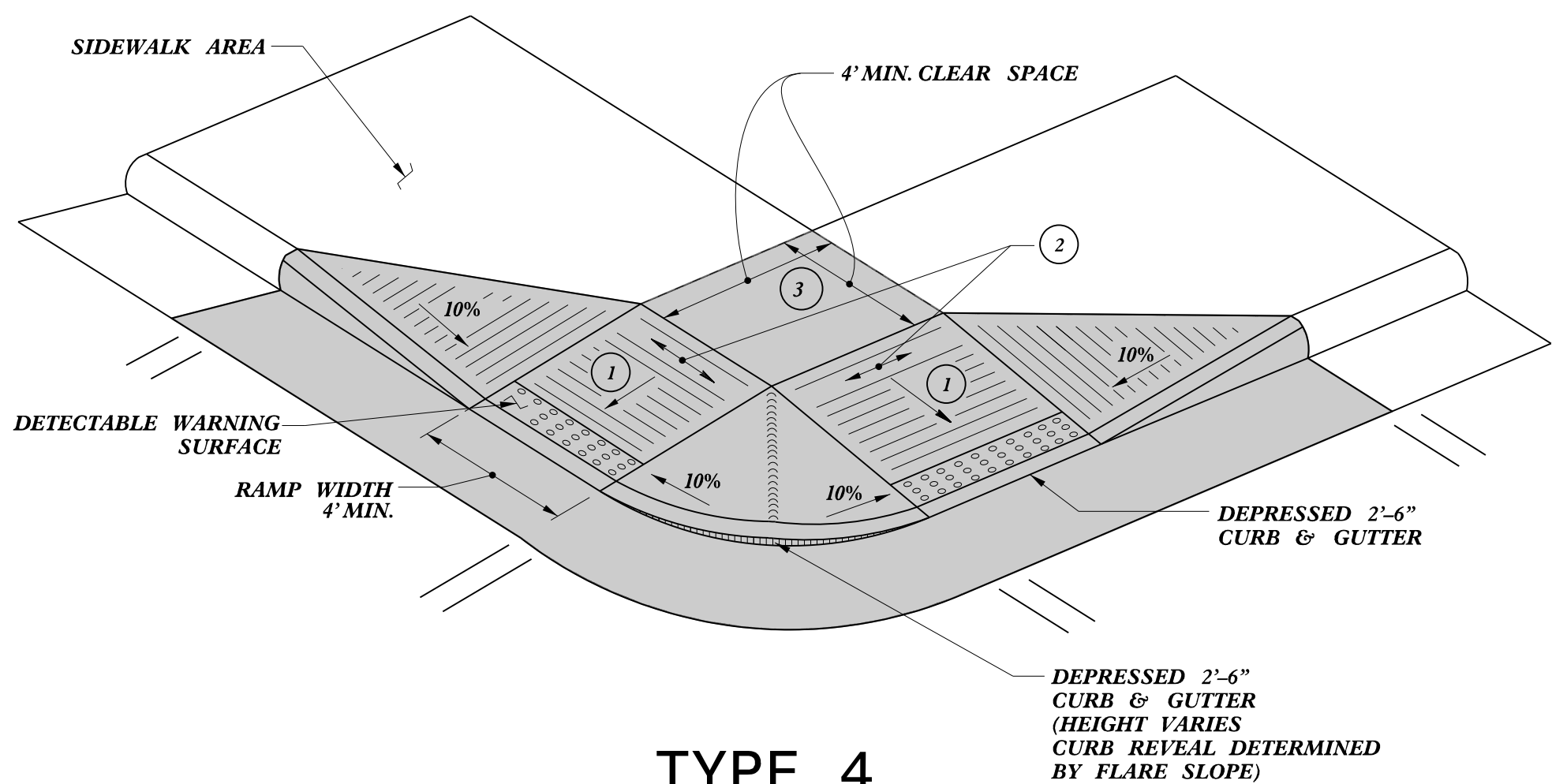
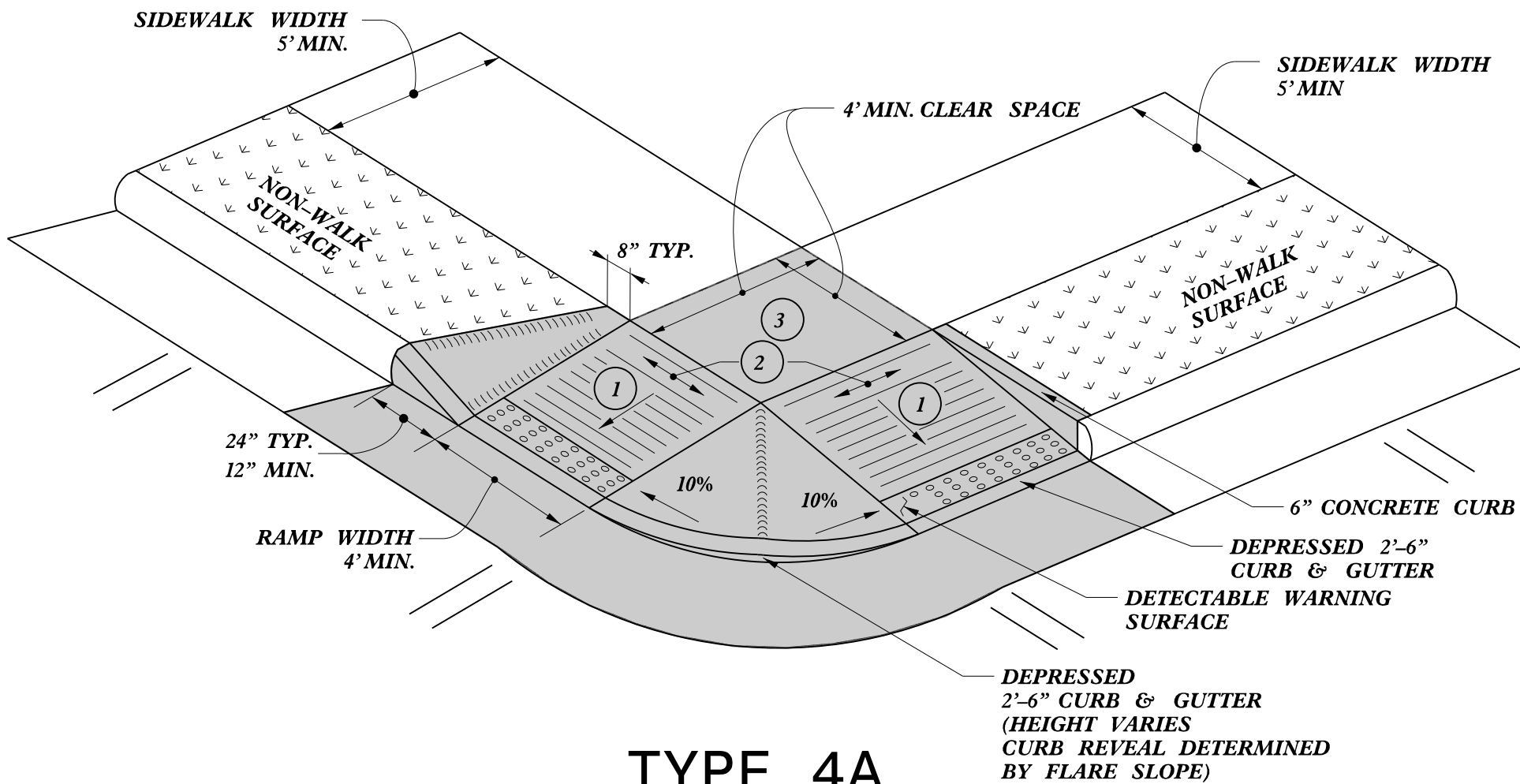
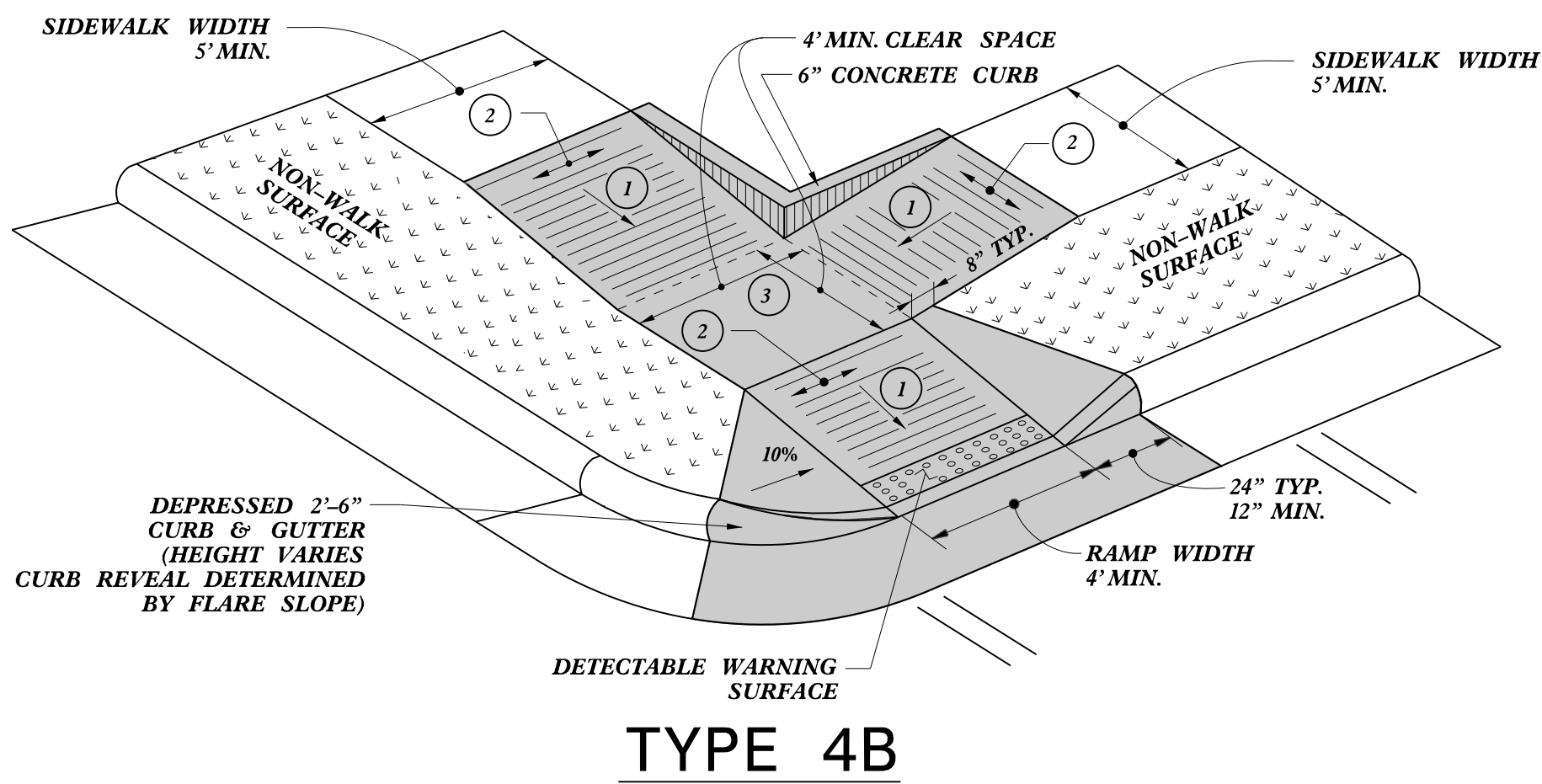




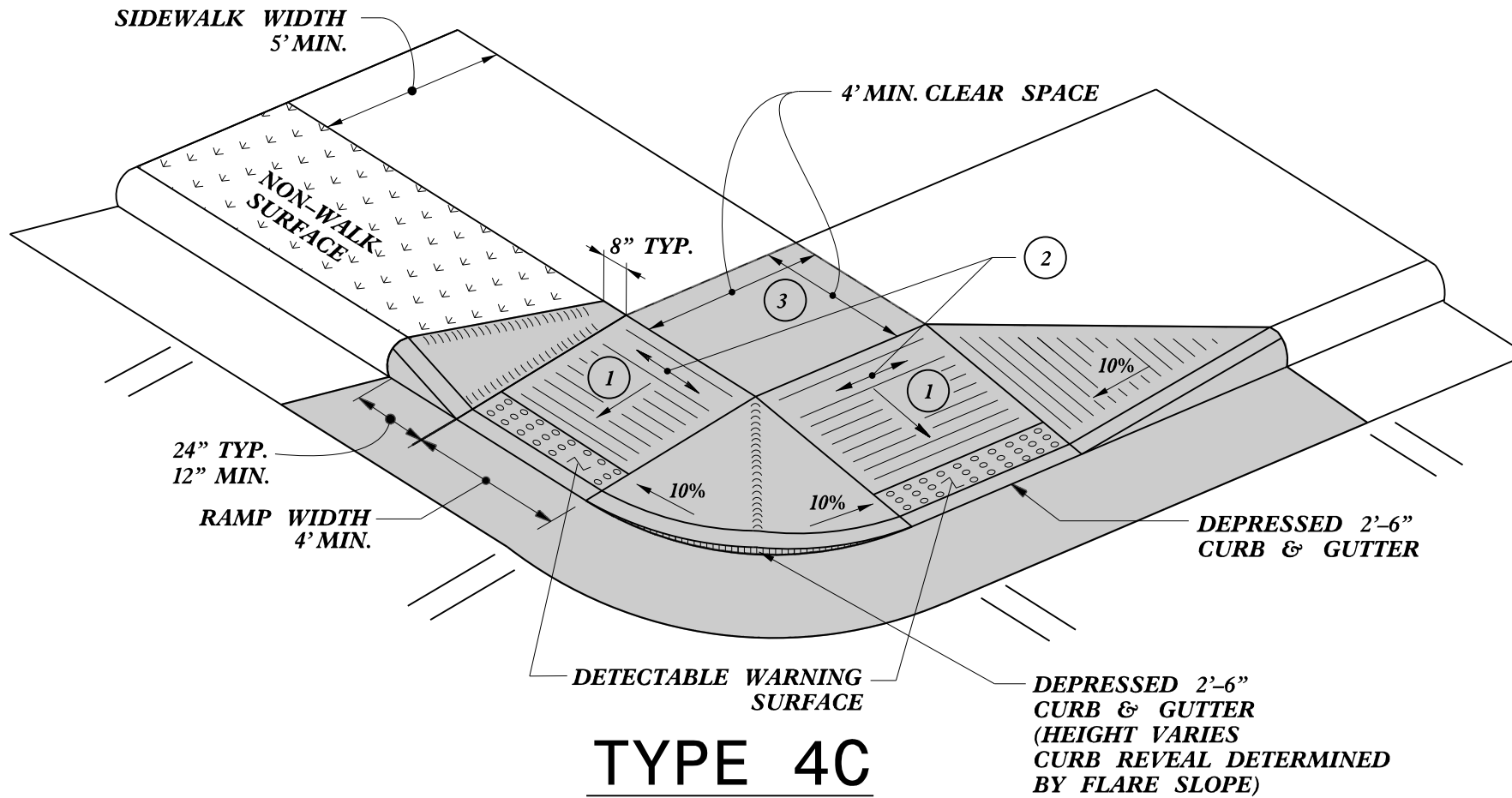
TYPE 4



TYPE 4A

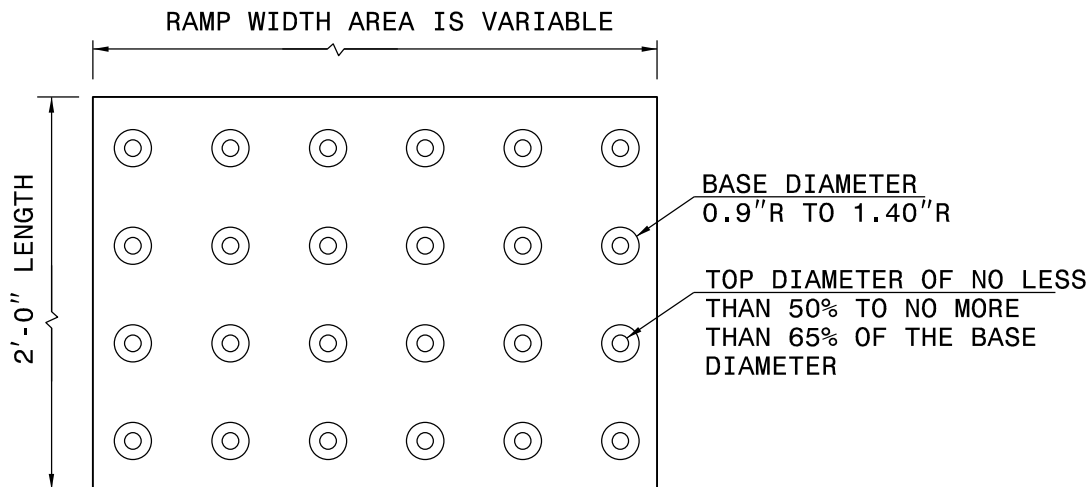


TYPE 4B

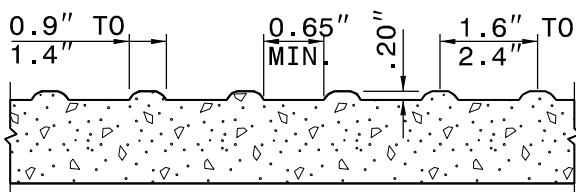


TYPE 4C

NOTES:
DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
DETECTABLE WARNING SURFACE SHALL CONTRAST VISIBLY WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.



DETECTABLE WARNING SURFACE



- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00%

PAY LIMITS FOR 1 OR 2 CURB RAMPS
(CALCULATE BASED ON NUMBER OF SETS OF DETECTABLE WARNING SURFACES)



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ROADWAY DETAIL DRAWING FOR
CURB RAMP
SHARED LANDING

SHEET 10 OF 13
848D06

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SEE TITLE BLOCK

ORIGINAL BY: S.CALHOUN DATE: 12-22-2023
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.: special_details\nmhackler\848D0610.dgn



10/13/2025

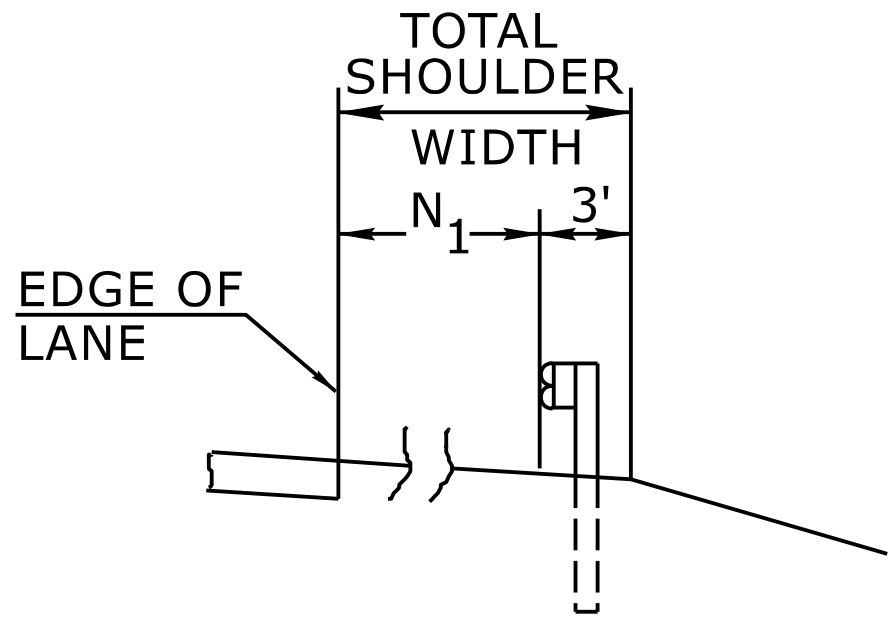
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

**CONTRACT STANDARDS
AND DEVELOPMENT UNIT**
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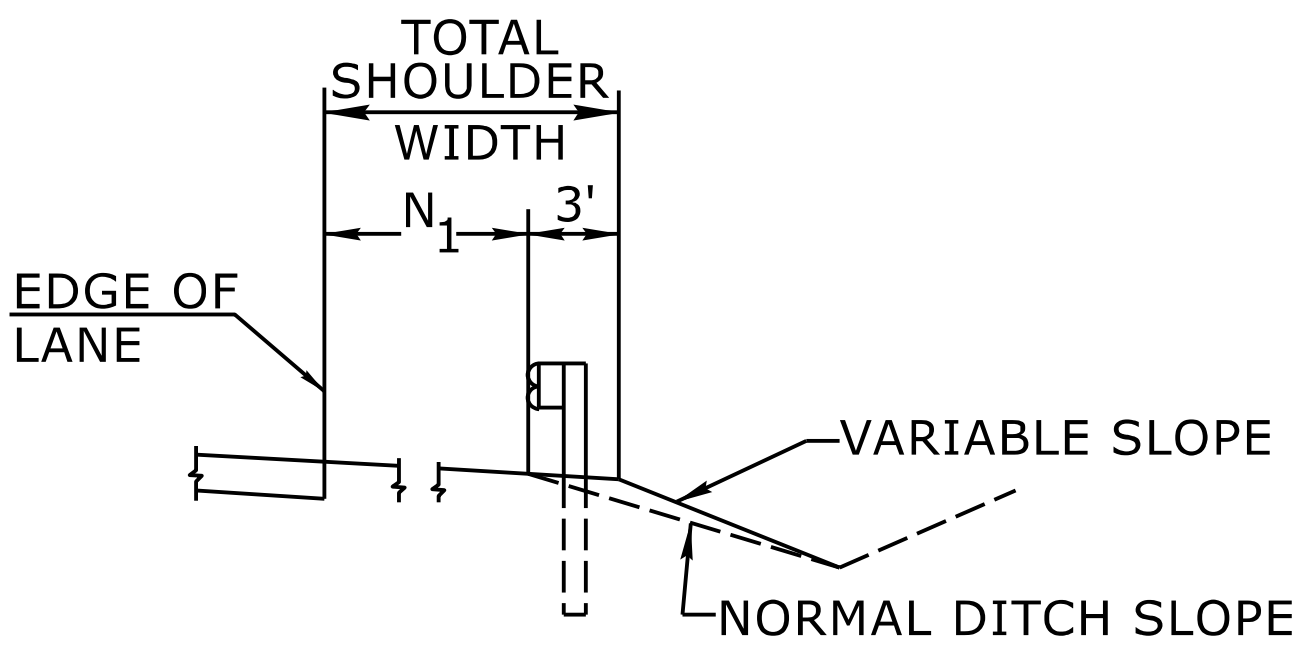
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ORIGINAL BY: K.A. KEMPF DATE: 7-20-23
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.: 2024 details in lieu 852D0701.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-5600	2C-14

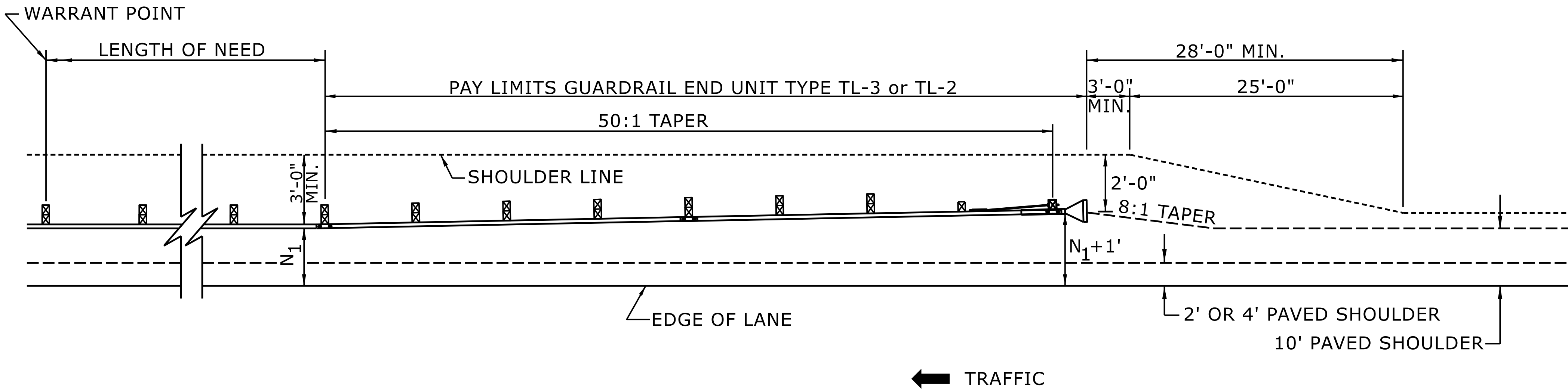


FILL SECTION



CUT SECTION

"N₁"= DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL WHERE GUARDRAIL IS PARALLEL TO LANE.



FOR POSTED SPEEDS ≥ 45mph USE GREU TYPE TL-3
FOR POSTED SPEEDS < 45mph USE GREU TYPE TL-2

DETAIL OF BEGINNING OF GUARDRAIL IN CUT OR FILL SECTION

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RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT



10/13/2025

SHEET 6 OF 15
862D01

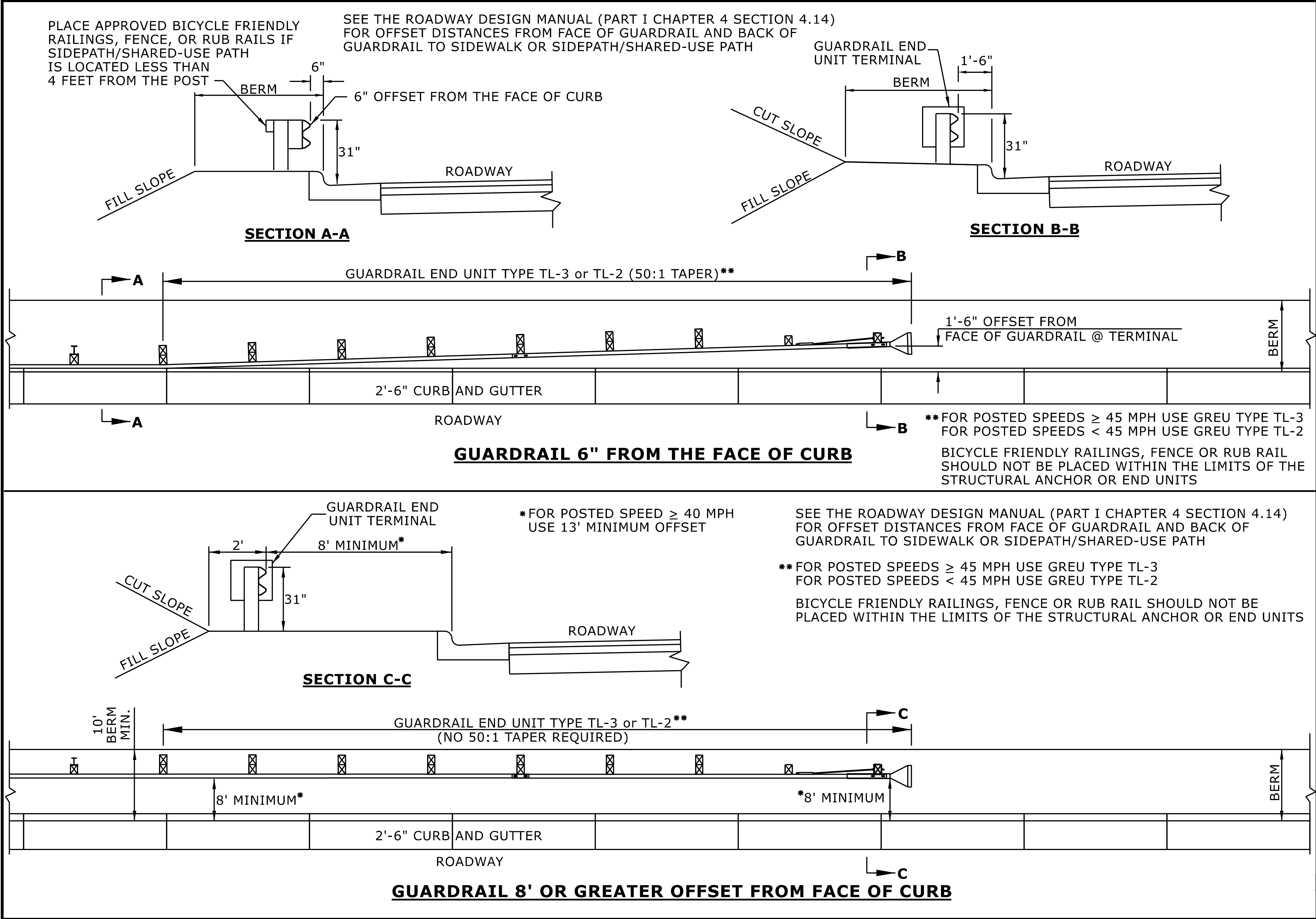
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

**CONTRACTS STANDARDS
AND DEVELOPMENT UNIT**

Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

ORIGINAL BY: S.CALHOUN DATE: 7-25-2024
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.: DATE:



STATE OF
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DEPT. OF TRANSPORTATION
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RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT
GUARDRAIL TREATMENT AT CURB AND GUTTER



10/13/2025

SHEET 12 OF 15
862D01

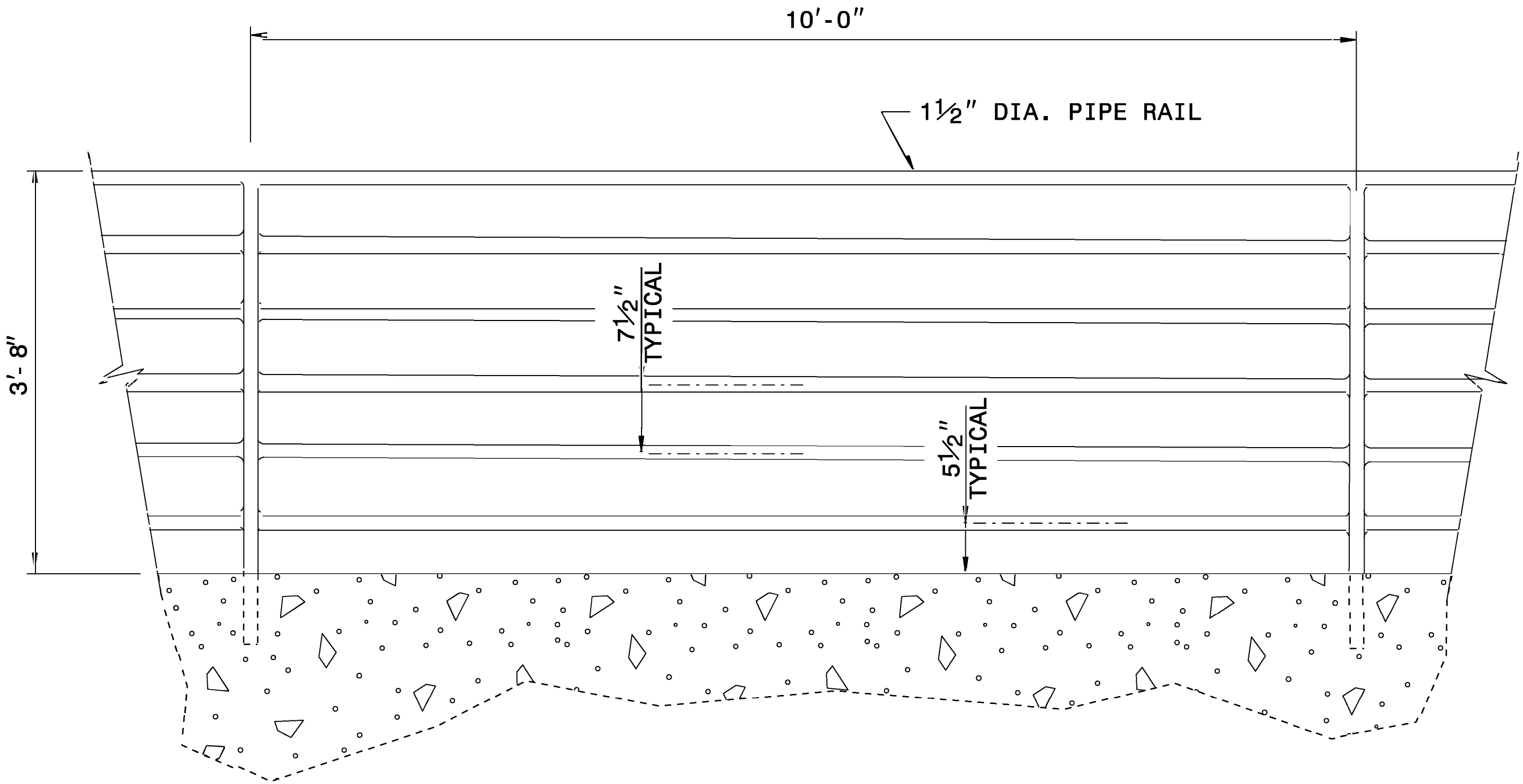
DOCUMENT NOT CONSIDERED FINAL
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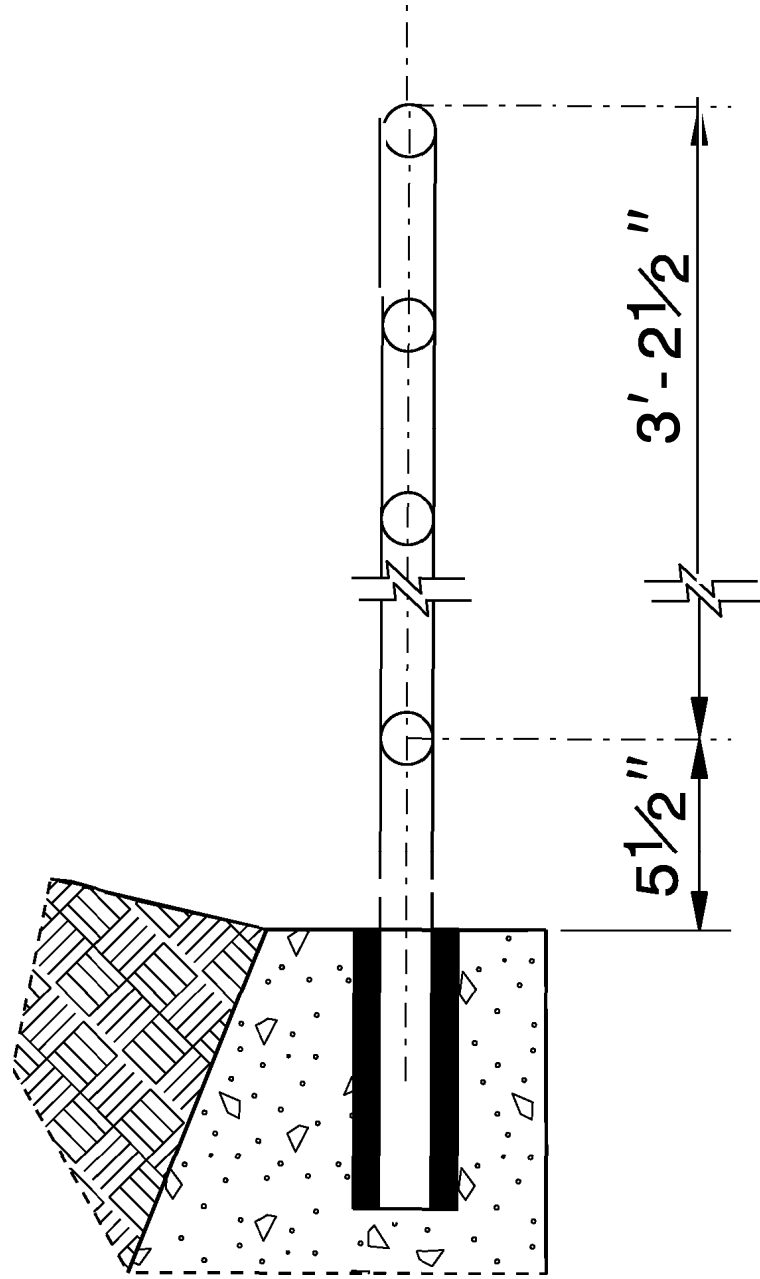
SEE TITLE BLOCK

ORIGINAL BY: S.CALHOUN	DATE: 7-25-2024
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.:	

PROJECT REFERENCE NO.	SHEET NO.
R-5600	2C-16



ELEVATION OF HANDRAIL



INSET 'A'

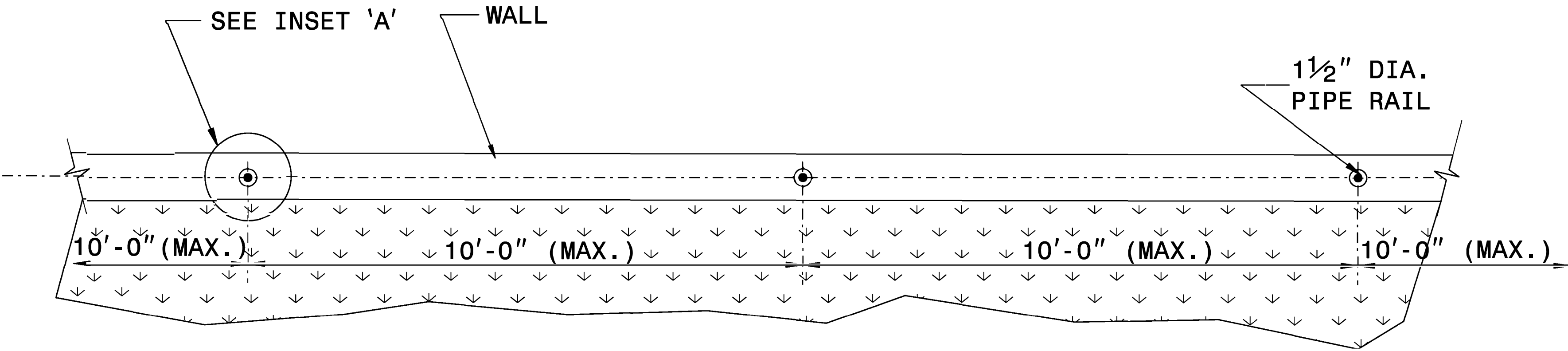
NOTES:

CONSTRUCT PROPOSED STEEL PIPE RAIL 1 1/2" DIAMETER
SCHEDULE 40 PLAIN END GALVANIZED STEEL PIPE MEETING THE
REQUIREMENTS OF ASTM A53.

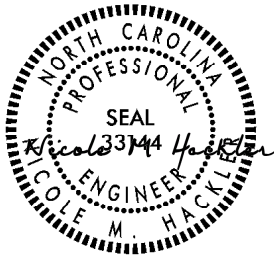
PAINT, IF REQUIRED BY THE ENGINEER, IN ACCORDANCE WITH
SECTION 1080 OF THE STANDARD SPECIFICATIONS.

WELD IN ACCORDANCE WITH ARTICLE 1072-18 OF
THE STANDARD SPECIFICATIONS.

SUBMIT THE ATTACHMENT OF THE HANDRAIL TO THE
RETAINING WALL TO THE CONTRACTS AND STANDARDS OFFICE
FOR APPROVAL.



PLAN VIEW

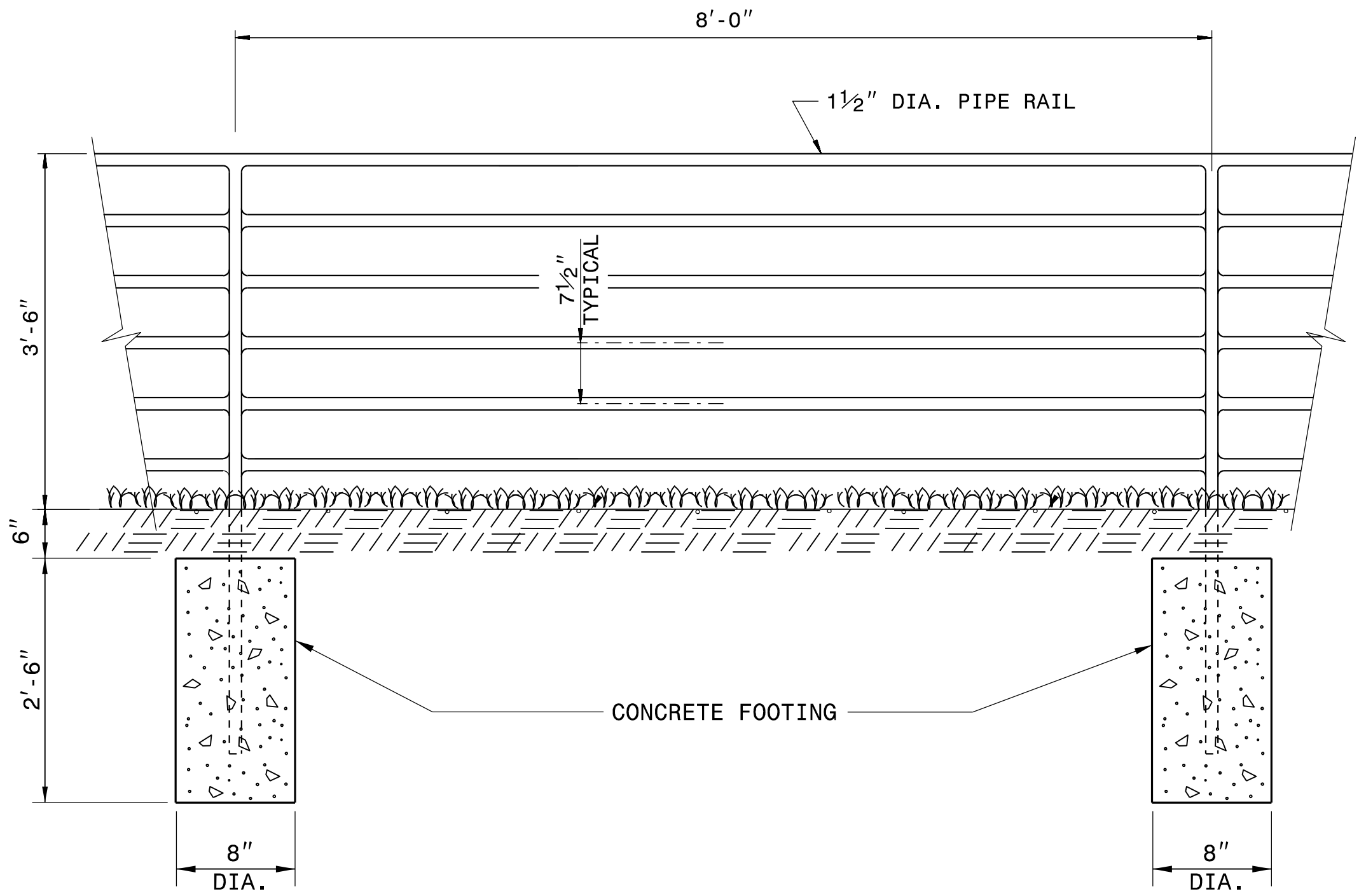


10/13/2025

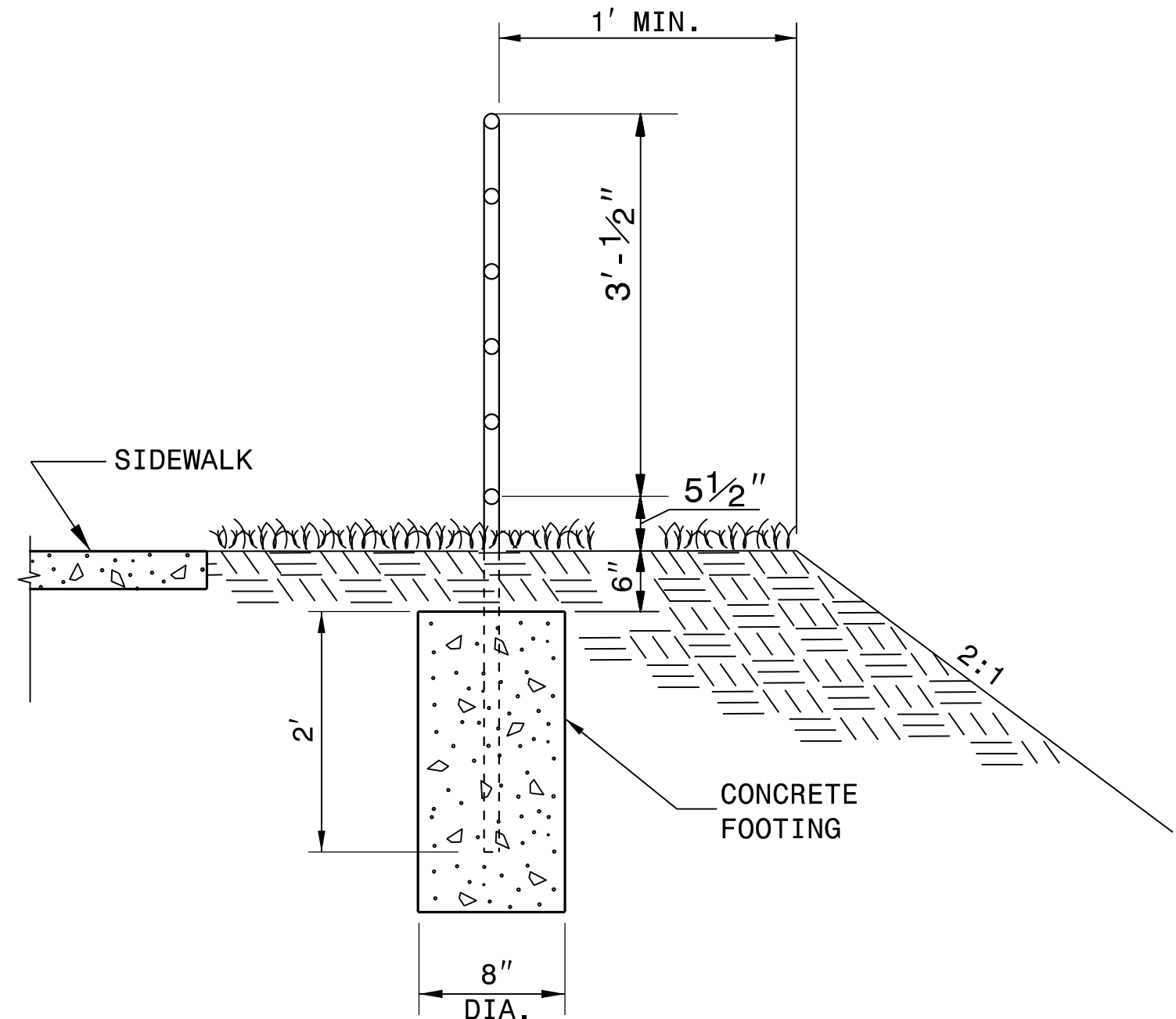
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
DETAIL OF PIPE HANDRAIL MOUNTED ON A WALL	
ORIGINAL BY: E.E. WARD	DATE: 12-99
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.: jhowerton/handrail_on_retaining_wall.dgn	

PROJECT REFERENCE NO.	SHEET NO.
R-5600	2C-17



ELEVATION



SECTION VIEW

NOTES:

CONSTRUCT PROPOSED STEEL PIPE RAIL OF 1 1/2" DIAMETER SCHEDULE 40 PLAIN END GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A53.

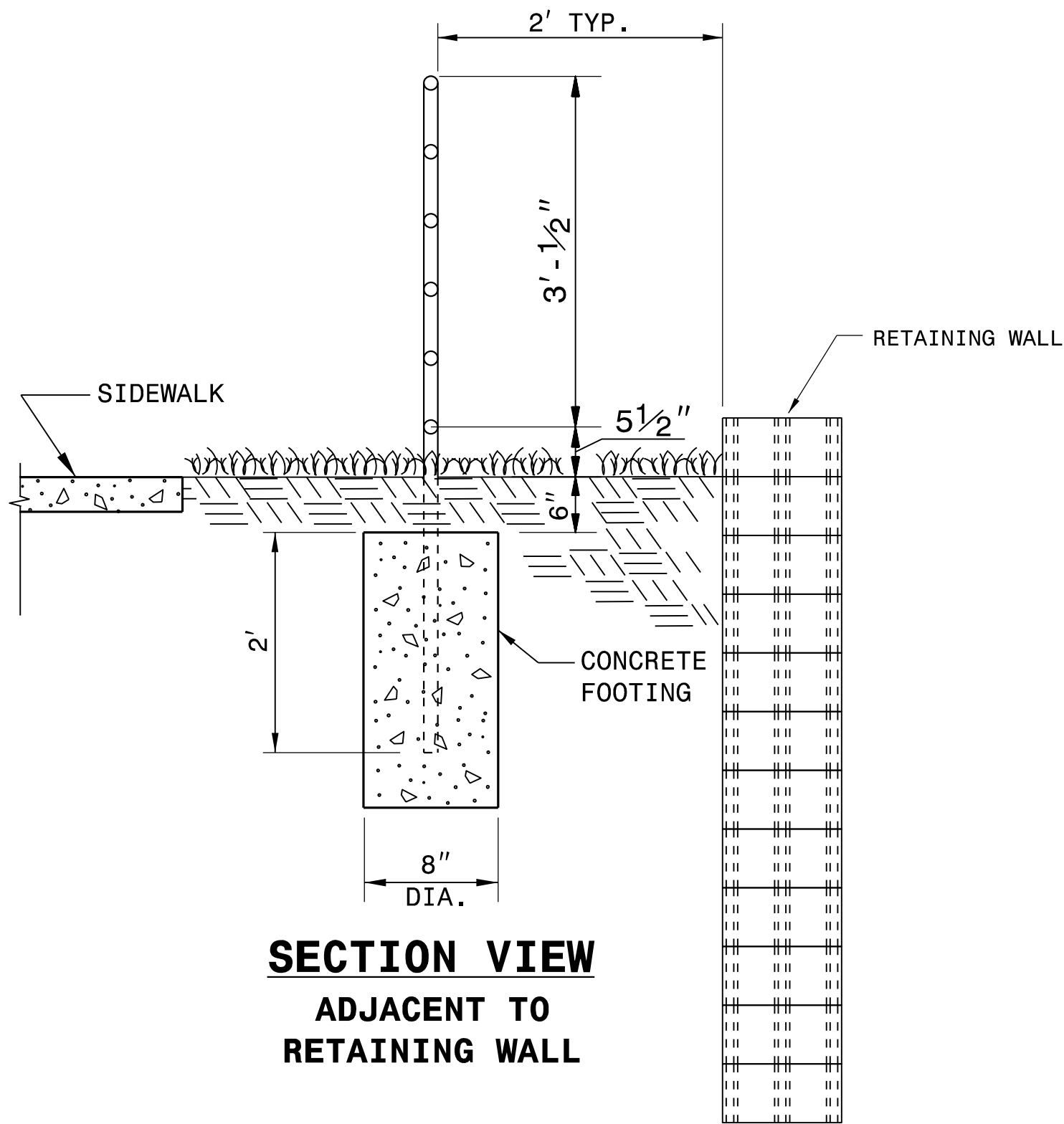
REPAIR GALVANIZING IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS SECTION 1076.

PAINT, IF REQUIRED BY THE ENGINEER, IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS SECTION 1080.

WELD IN ACCORDANCE WITH ARTICLE 1072-18 OF THE STANDARD SPECIFICATIONS.

USE CLASS 'B' CONCRETE FOR HANDRAIL FOOTINGS.

PLACEMENT OF HANDRAIL IN RELATION TO RETAINING WALL AND SIDEWALK MAY BE MODIFIED AS DIRECTED BY THE ENGINEER.



SECTION VIEW
ADJACENT TO
RETAINING WALL



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PEDESTRIAN SAFETY RAIL

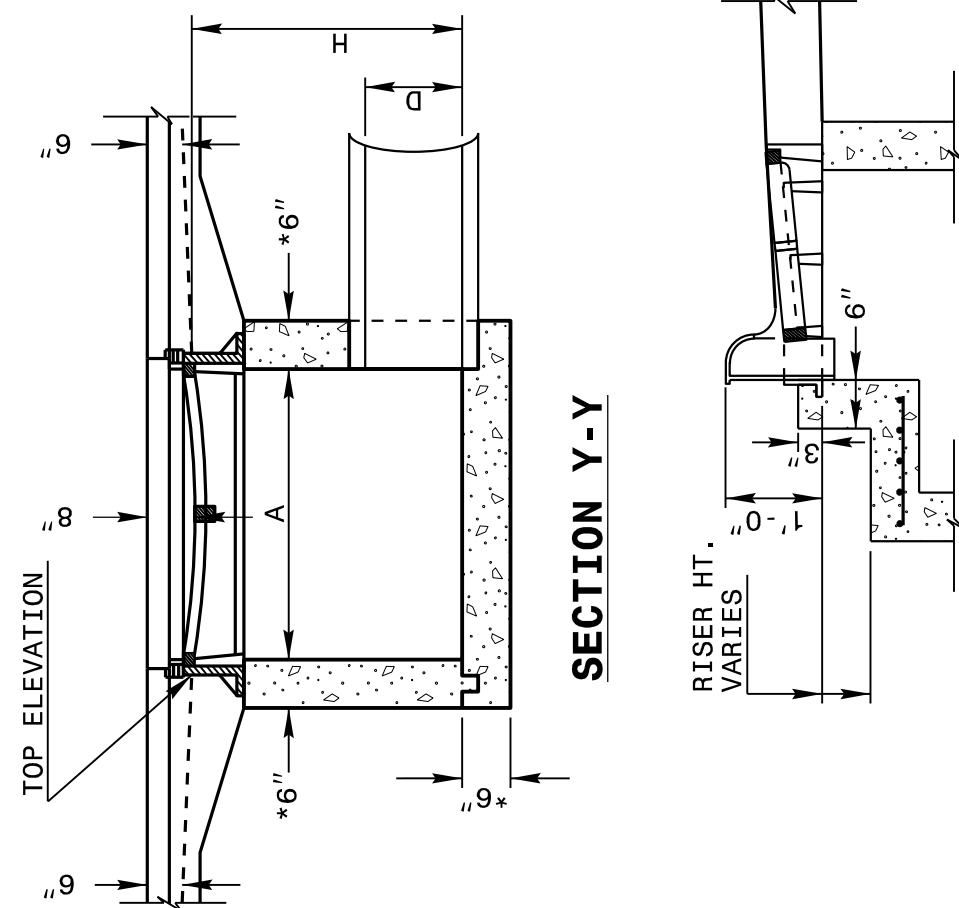
ORIGINAL BY: _____ DATE: _____
MODIFIED BY: K.A. KEMPf DATE: 7-20-23
CHECKED BY: _____ DATE: _____
FILE SPEC.: details\kempf\english\safety rails 2024.dgn

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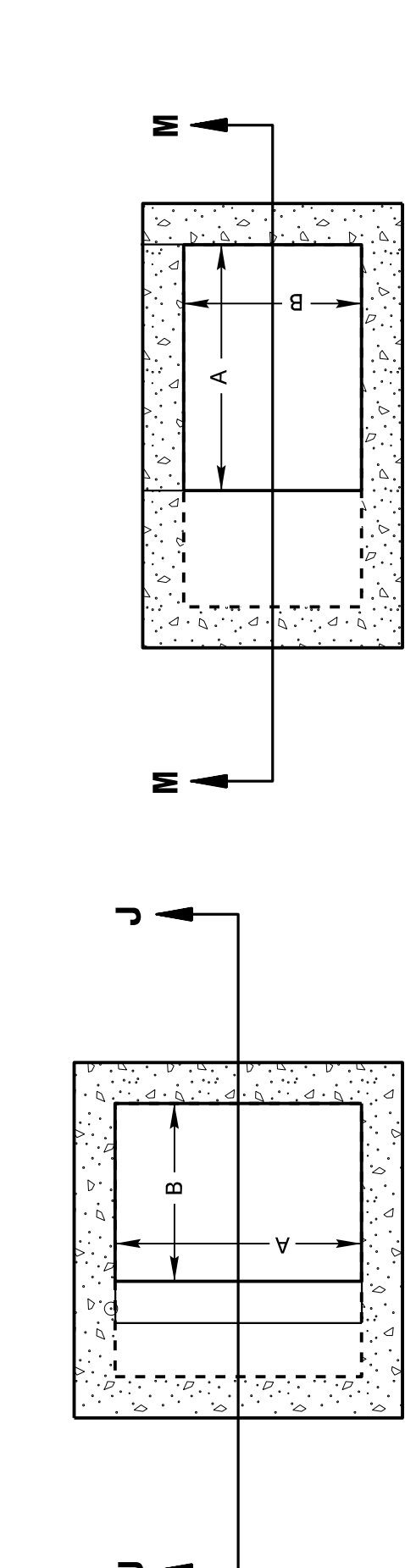
GENERAL NOTES:
USE CLASS "B" CONCRETE THROUGHOUT.
PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.
OPTIONAL CONSTRUCTION - MONOLITHIC FOUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12 CENTERS AS DIRECTED BY THE ENGINEER.
USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.
IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.
USE TYPE "E", "F" AND "G" GRATES UNLESS OTHERWISE INDICATED.
* USE 6" WALLS FOR BOXES UP TO 8' IN HEIGHT. USE 8" WALLS, 8" BOTTOM SLAB AND 8" TOP SLAB FOR BOXES GREATER THAN 8' IN HEIGHT AND UP TO 20' IN HEIGHT.
CONSTRUCT WITH PIPE CORNERS MATCHING.
CHAMFER ALL EXPOSED CORNERS 1".
** FOR STRUCTURES WITH PIPE LARGER THAN 54", MAKE THE TOP SLAB 8" THICK.

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ENGLISH DETAIL DRAWING FOR
**EXTRA DEPTH
CONCRETE CATCH BASIN**
12" THRU 84" PIPE



ENGLISH DETAIL DRAWING FOR
**EXTRA DEPTH
CONCRETE CATCH BASIN**
12" THRU 84" PIPE

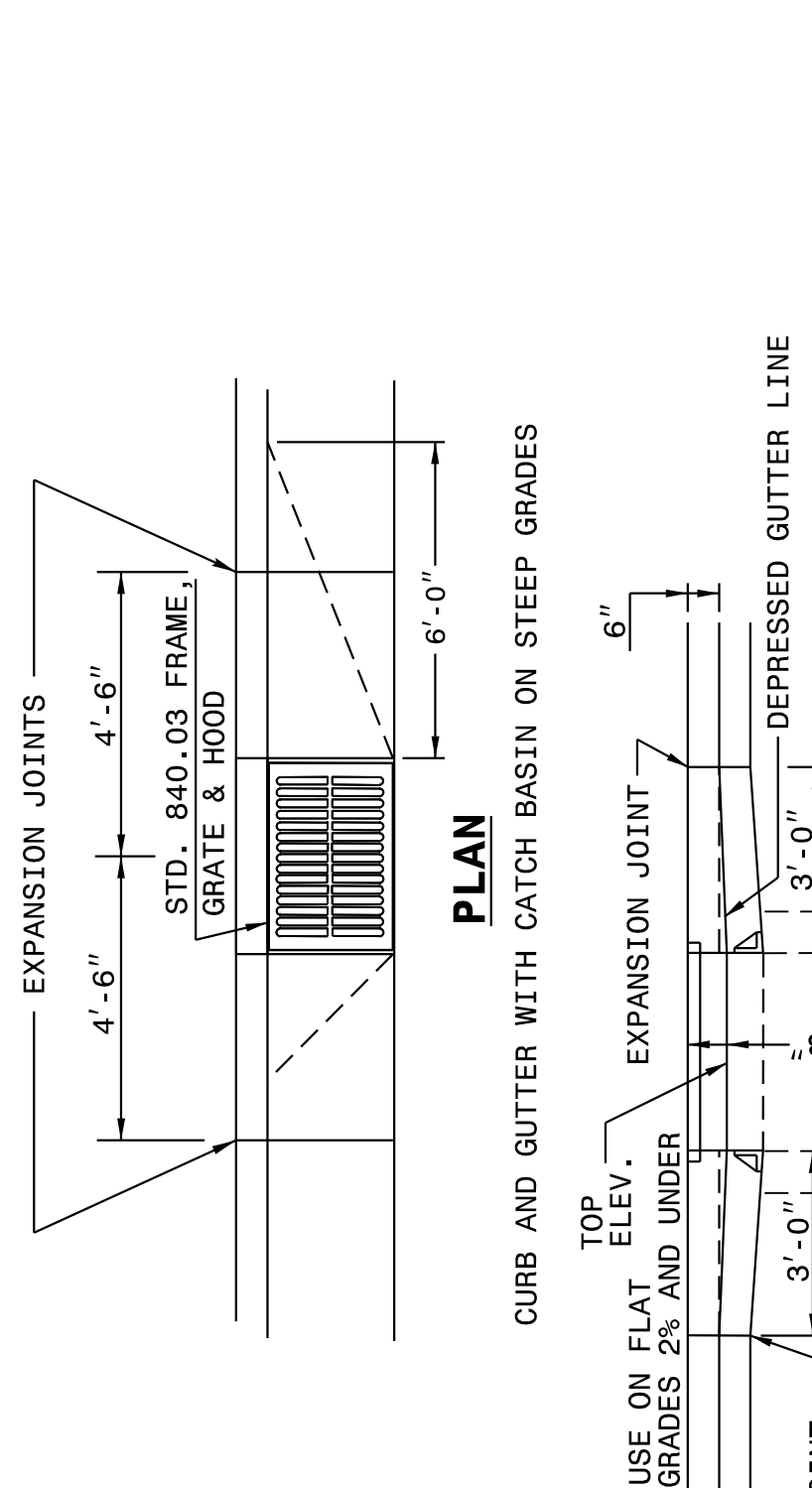


DETAIL SHOWING METHOD
OF RISER CONSTRUCTION

SHEET 1 OF 2
840D02

SHEET 1 OF 2
840D02

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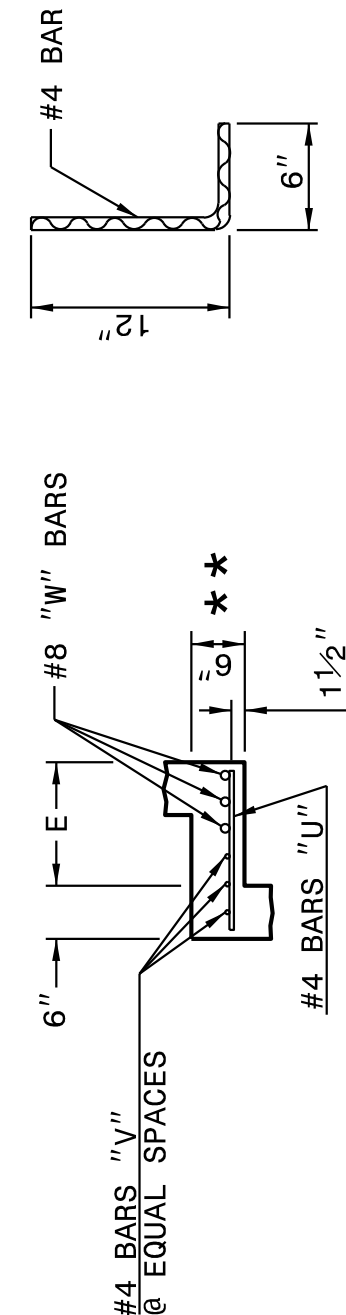
** FOR STRUCTURES WITH PIPE LARGER THAN 54",
MAKE THE TOP SLAB 8" THICK.

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ENGLISH DETAIL DRAWING FOR
**EXTRA DEPTH
CONCRETE CATCH BASIN**
12" THRU 84" PIPE

PLAN OF TOP SLAB

SECTION S-S



SECTION R-R

DOWEL

ELEVATION

ELEVATION

* RISER HAS .228 CUBIC YARDS OF CONCRETE PER FOOT HEIGHT

MINIMUM DIMENSIONS AND QUANTITIES FOR CONCRETE CATCH BASIN (BASED ON MIN. HEIGHT, H, WITH NO RISER) *									
DIMENSIONS OF BOX AND PIPE					COVER				
PIPE D.	SPAN A.	WIDTH B.	WIDTH C.	SPAN G.	MIN. H.	HEIGHT H.	COVER E.	F.	
12"	3'-0"	2'-2"	--	--	2'-0"	--	--	--	
15"	3'-0"	2'-2"	--	--	2'-3"	--	--	--	
18"	3'-0"	2'-2"	--	--	2'-6"	--	--	--	
24"	3'-0"	2'-2"	3'-4"	3'-10"	3'-1"	--	--	--	
30"	3'-0"	2'-2"	3'-4"	3'-10"	3'-1"	1'-2"	4'-4"	4	1'-5"
36"	3'-0"	2'-2"	3'-10"	3'-10"	4'-6"	1'-8"	4'-10"	4	1'-11"
42"	3'-0"	2'-2"	4'-5"	4'-5"	4'-11"	2'-2"	5'-5"	5	2'-5"
48"	3'-0"	2'-2"	5'-0"	5'-0"	5'-6"	2'-10"	6'-0"	5	3'-1"
54"	3'-0"	2'-2"	5'-7"	5'-7"	6'-0"	3'-5"	6'-7"	6	3'-8"
60"	3'-0"	2'-2"	6'-3"	6'-3"	6'-6"	4'-1"	7'-3"	6	4'-4"
66"	3'-0"	2'-2"	6'-11"	6'-11"	7'-0"	4'-9"	7'-11"	7	5'-0"
72"	3'-0"	2'-2"	7'-6"	7'-6"	7'-6"	5'-3"	8'-6"	7	5'-6"
78"	3'-0"	2'-2"	8'-1"	8'-1"	8'-0"	5'-11"	9'-1"	8	6'-2"
84"	3'-0"	2'-2"	8'-9"	8'-9"	8'-6"	6'-7"	9'-9"	8	6'-10"

ORIGINAL BY: 2002 Std.840.01 DATE:
MODIFIED BY: E.E. WARD DATE: 3-1-02
CHECKED BY: DATE:
FILE SPEC.: jhewerton/840d02 Extra Depth CB.dgn

SEE PLATE FOR TITLE

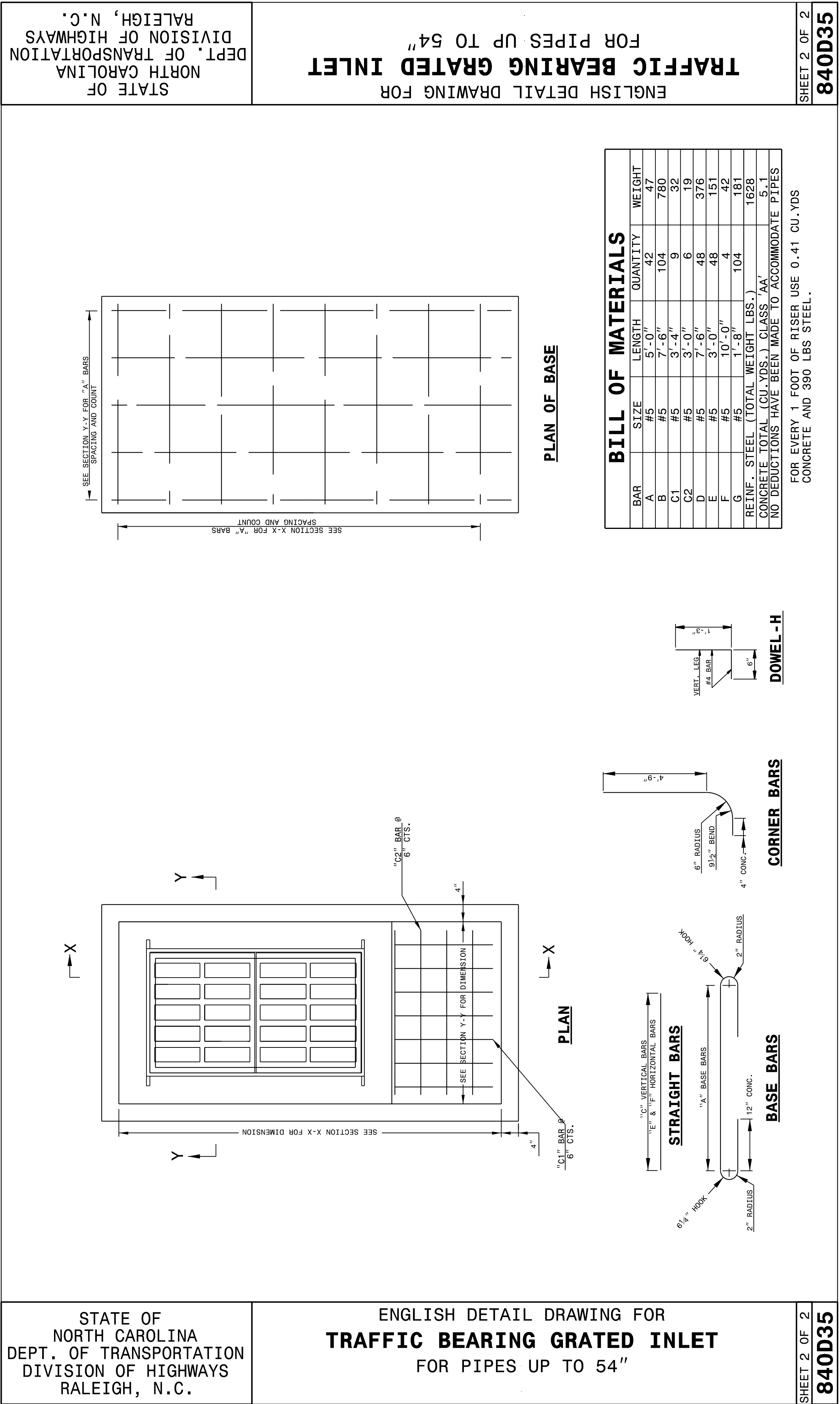
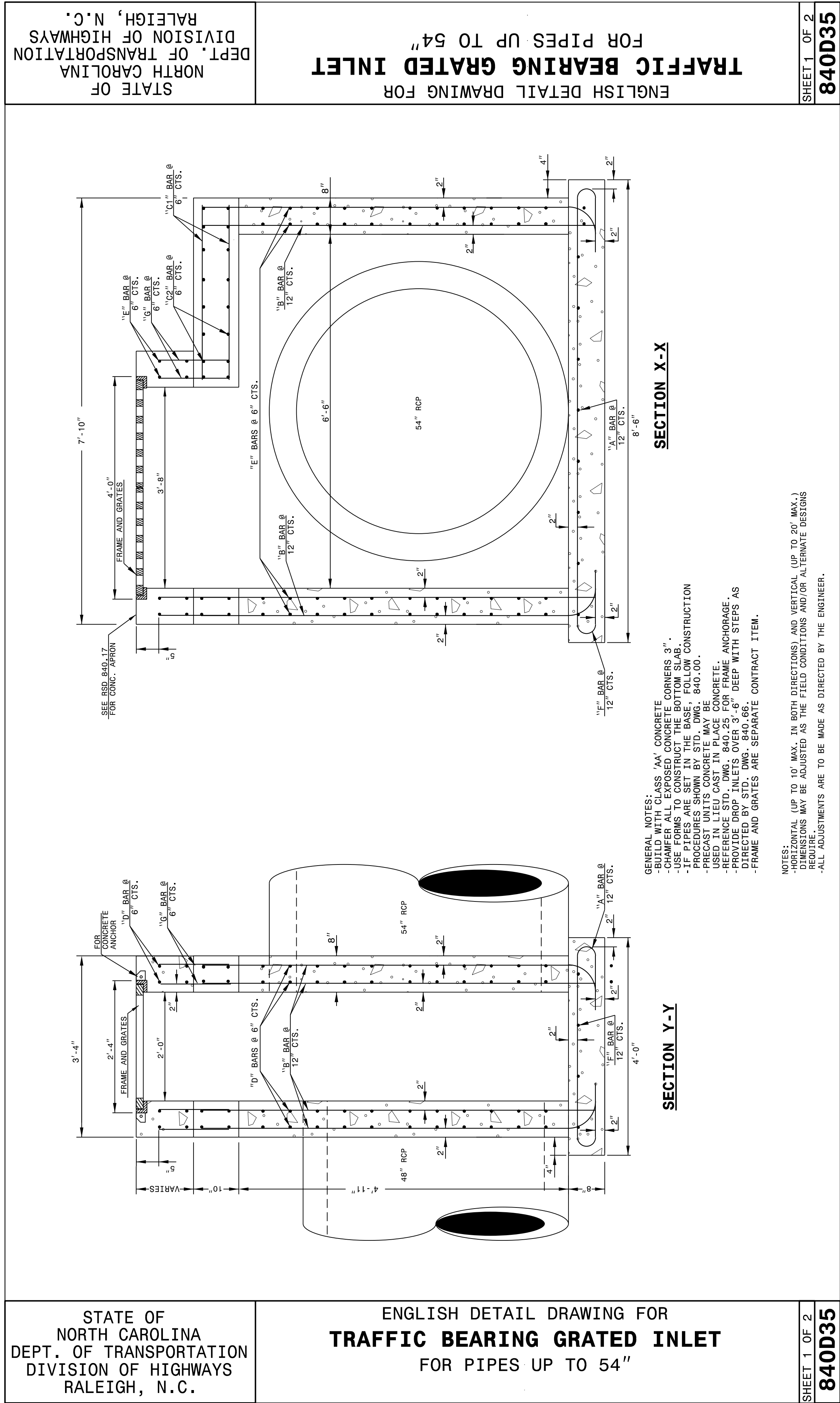
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R-5600	2C-21

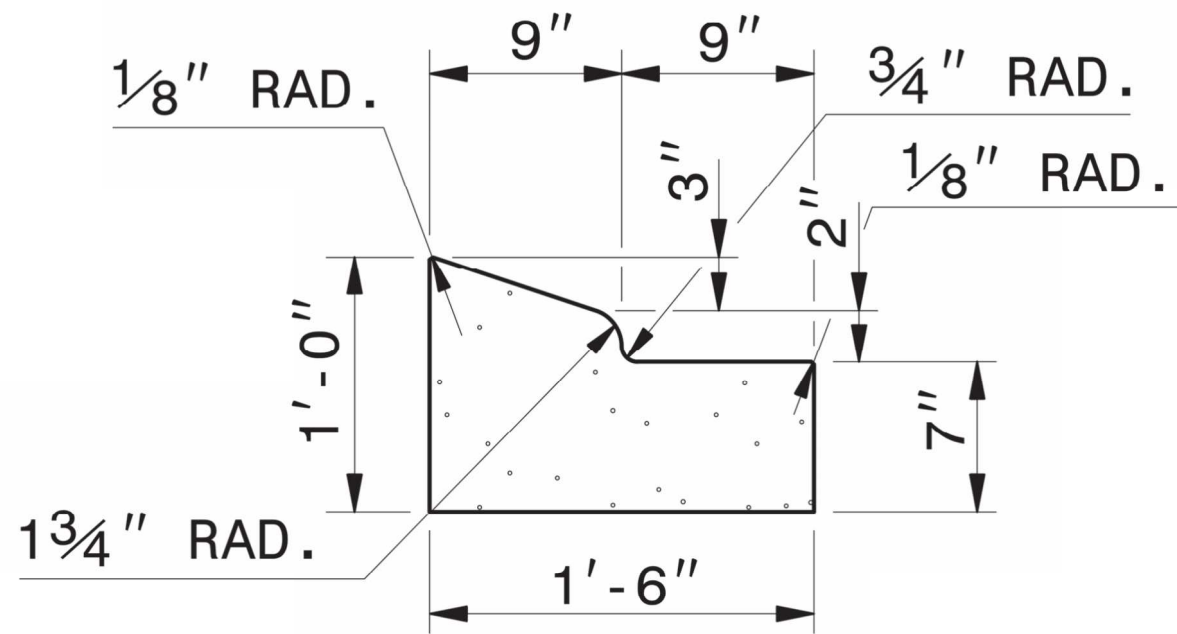


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SEE PLATE FOR TITLE

ORIGINAL BY: K. KEMPF DATE: 03-03-2015
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.: jhewerton/840d35 TB01 Up to 54in.dgn

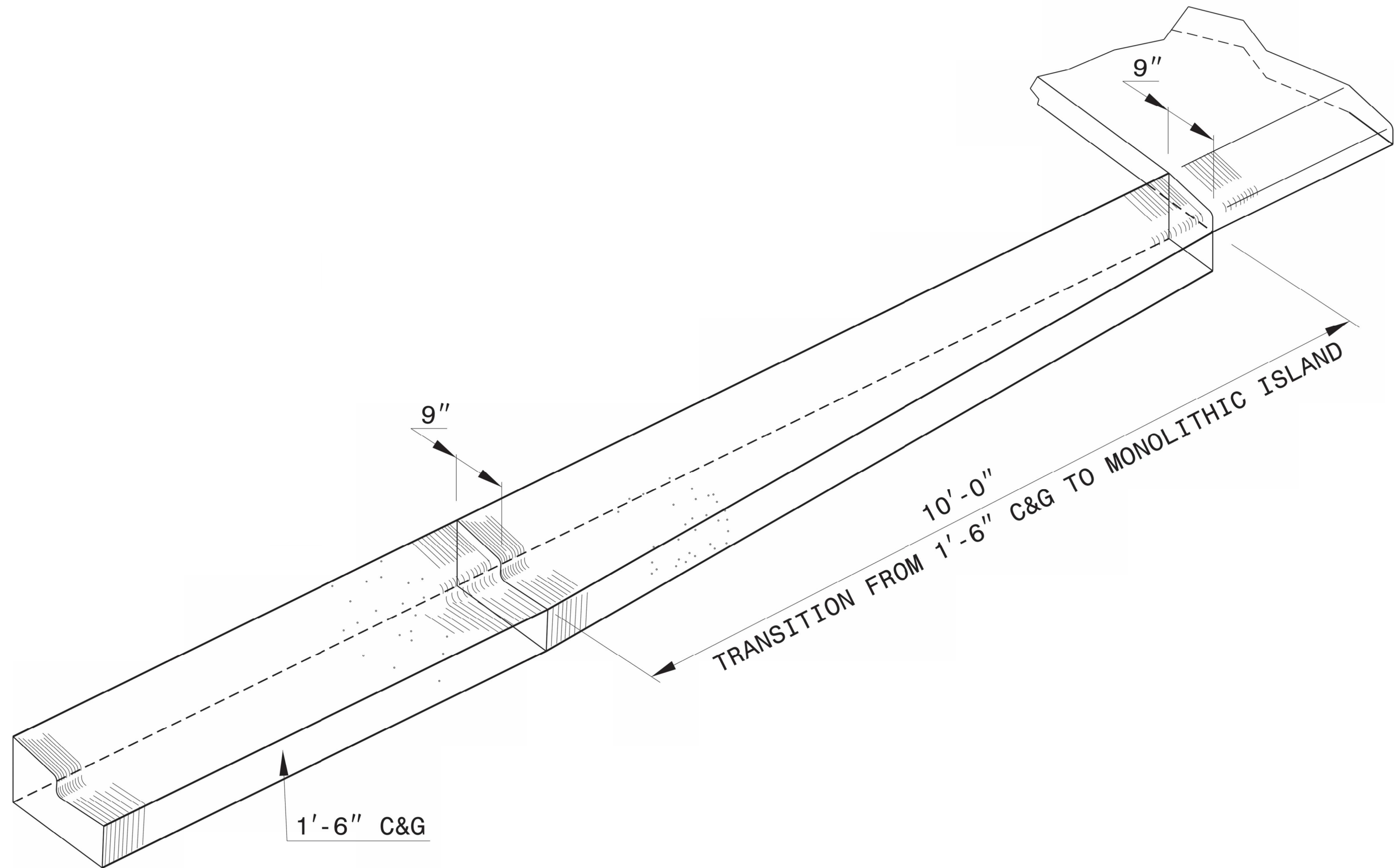
PROJECT REFERENCE NO.	SHEET NO.
R-5600	2C-22



NOTE: SEE STD. DWG. 846.01 FOR ADDITIONAL CURB AND GUTTER INFORMATION.

SEE ROADWAY PLANS FOR LOCATION OF CURB TRANSITION.

1'-6" CURB AND GUTTER



ISOMETRIC VIEW OF TRANSITIONING CURB & GUTTER



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DETAIL OF 1'-6" CURB & GUTTER TRANSITION SECTION

ORIGINAL BY: _____ DATE: _____
MODIFIED BY: KKEMPF DATE: 09-24-14
CHECKED BY: _____ DATE: _____
FILE SPEC.: kkempf/english/curb_gutter_transition.dgn

SHEET 1 OF 1
TYPE III SC

SHEET 1 OF 1
TYPE III SC



**POST NOT REQUIRED FOR SKEW ANGLES GREATER THAN 150° OR LESS THAN 30° UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 *THE DISTANCE FROM END OF BRIDGE RAIL TO CENTER LINE OF THE FIRST POST SHOULD BE 11½" IF CONCRETE BACKWALL
 IS NOT PRESENT.
 -SHOULDER BERM GUTTER MUST BE INSTALLED TO THE LIMITS 8" x 4" LIP CURB IS SHOWN IF ANCHOR UNIT IS NOT ADJACENT
 TO AN APPROACH SLAB.
 -MEASURE GUARDRAIL HEIGHT FROM THE TOP OF ADJACENT SURFACE (SHOULDER, BERM, OR GUTTER).
 -USE NO STEEL POSTS WITHIN THE GUARDRAIL ANCHOR UNIT LIMITS.
 -LAP JOINTS IN THE DIRECTION OF TRAFFIC FLOW.
 -SEE STANDARD 862.03 SHEET 4 FOR POST SECTIONS 1 THRU 9.

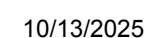
PAY LIMITS FOR GUARDRAIL ANCHOR
 TYPE III - SHOP CURVED



GUARDRAIL ANCHOR UNIT, TYPE III - SHOP CURVED
FOR ATTACHMENT TO RAIL ON BRIDGE

ENGLISH DETAIL DRAWING FOR
**TYPE III - SHOP CURVED
STRUCTURE ANCHOR UNIT**

SHEET 1 OF 1
TYPE III SC



PROJECT REFERENCE NO.	SHEET NO.
R-5600	2C-24

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ROADWAY DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

SHEET 5 OF 9

862D02



10/13/2025

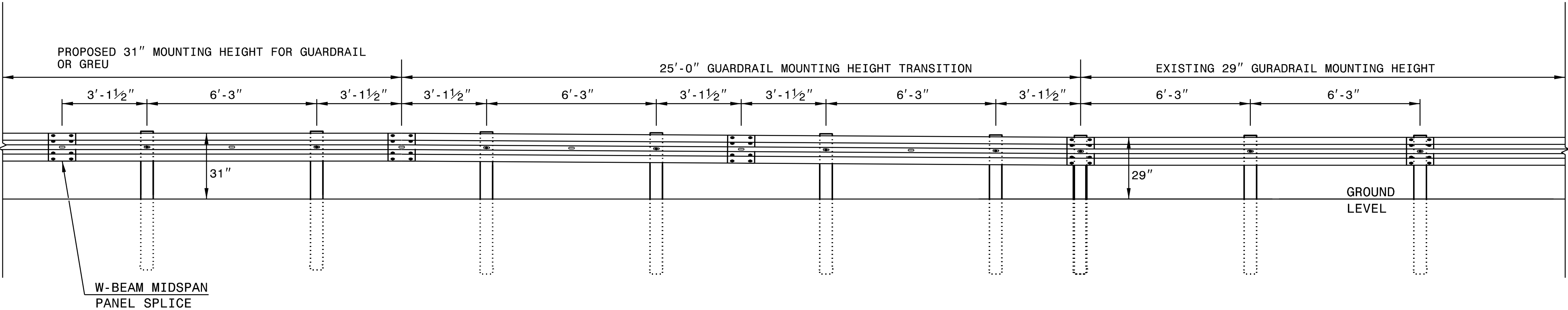
DOCUMENT NOT CONSIDERED FINAL
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AND DEVELOPMENT UNIT**
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SEE TITLE BLOCK

ORIGINAL BY: K. Aldridge DATE: 02-25
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.:

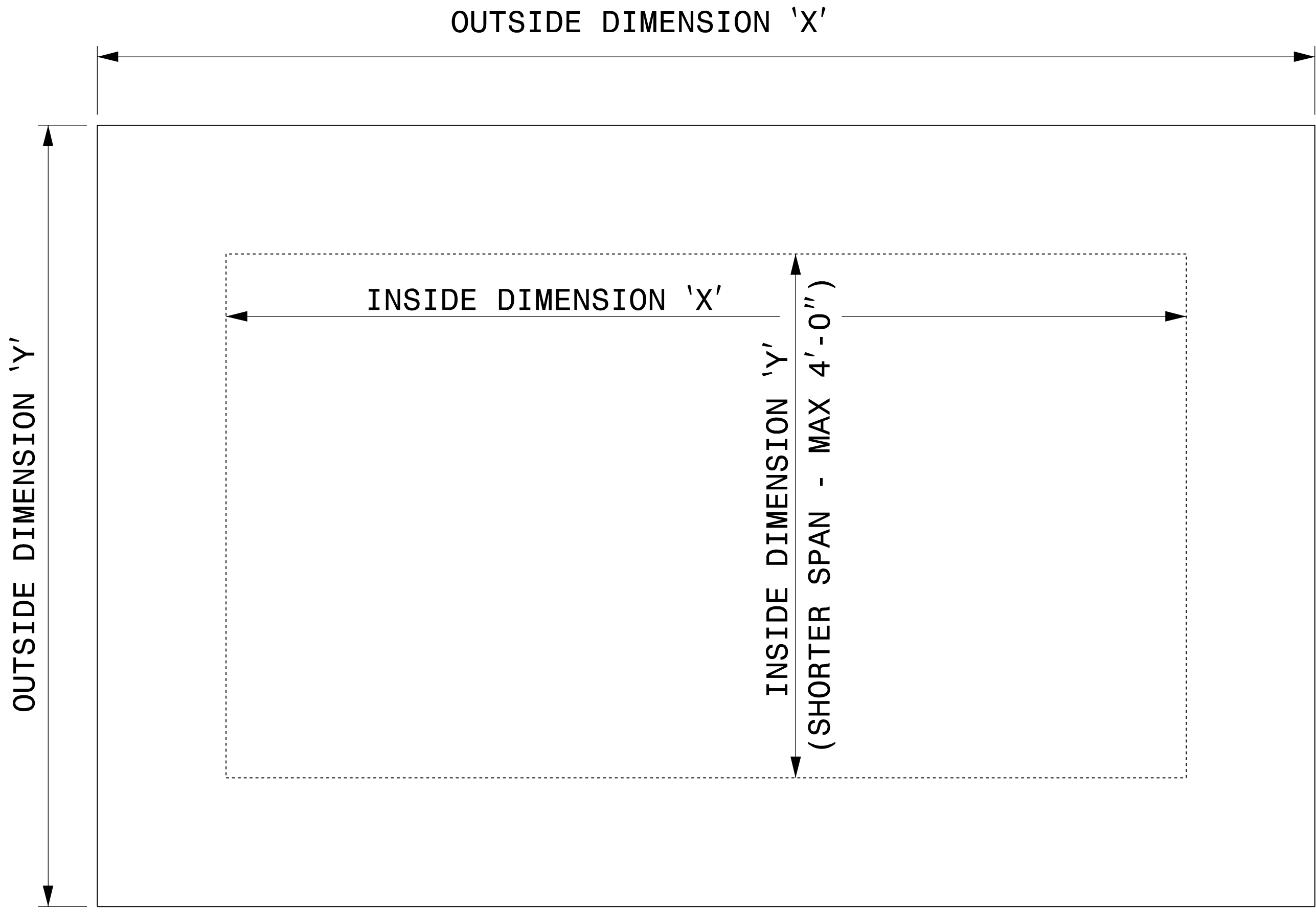
**NOTE: IF EXISTING GUARDRAIL IS LOWER THAN 29", USE AN ADDITIONAL 12'-6" LONG SECTION OF GUARDRAIL,
FOR EVERY 1" OF HEIGHT DIFFERENCE, TO TRANSITION FROM EXISTING GUARDRAIL TO PROPOSED 31" GUARDRAIL.**



ELEVATION VIEW

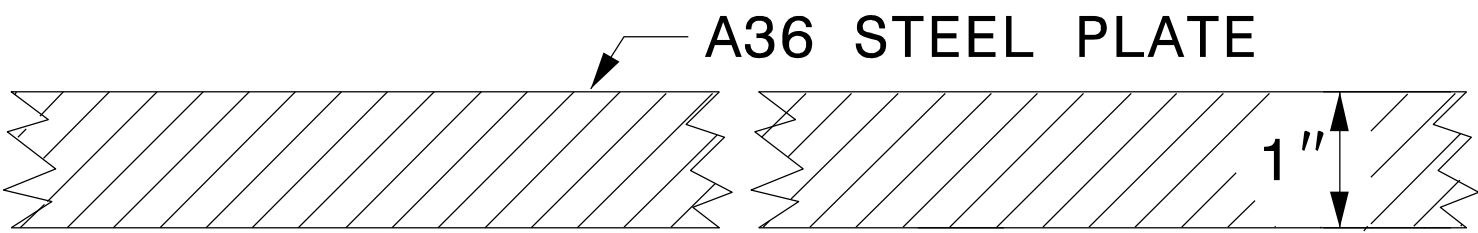
TRANSITION FROM 29" TO 31" W-BEAM GUARDRAIL MOUNTING HEIGHT

PROJECT REFERENCE NO.	SHEET NO.
R-5600	2C-25



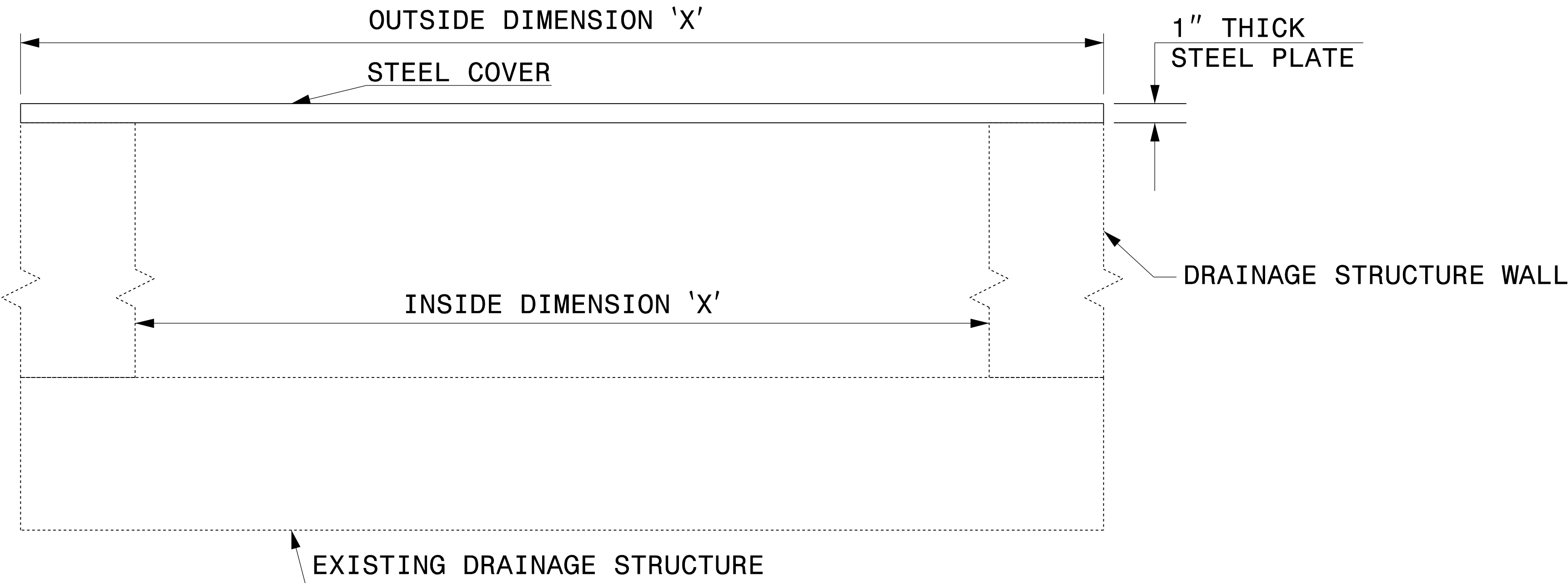
GENERAL NOTES:

- USE GRADE A36 STEEL
- STEEL COVERS ARE FOR TEMPORARY USE DURING PHASE CONSTRUCTION.
- FILL SHALL BE PLACED DIRECTLY OVER THE STEEL PLATES.
- SEE ROADWAY PLANS AND PROVISIONS FOR LOCATIONS
- QUANTITIES TO BE PAID FOR AT THE UNIT PRICE BID PER EACH.



SECTION VIEW OF STEEL TOP PLATE

PLAN VIEWS



ELEVATION VIEWS



10/13/2025

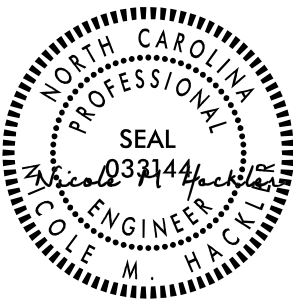
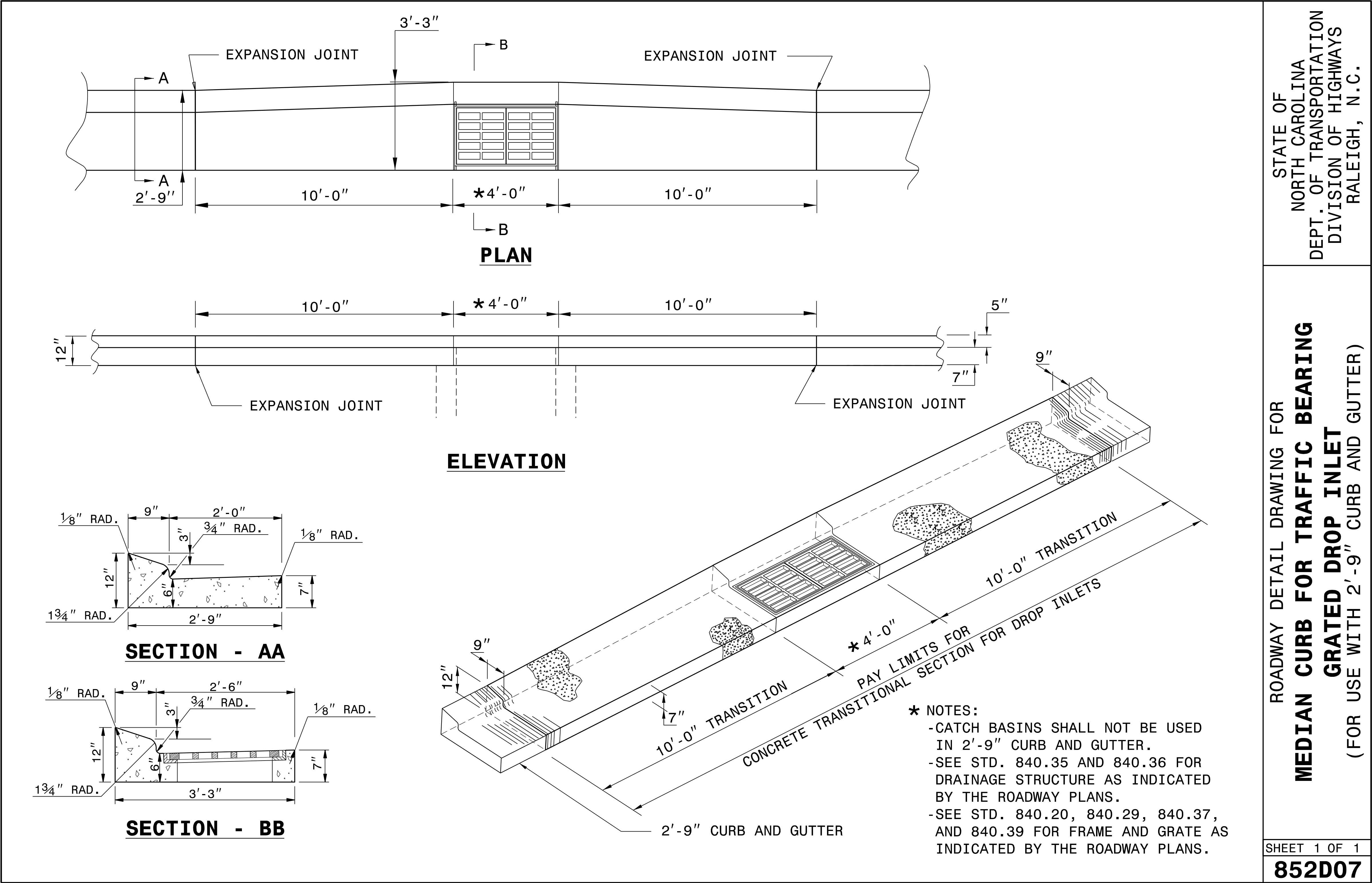
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**DETAIL OF TEMPORARY
1\" STEEL COVER
OVER DRAINAGE STRUCTURE**

ORIGINAL BY: E.E. WARD DATE: 2-2-98
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.: eric:/usr/details/metric/stand/stlcvr2.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-5600	2C-26



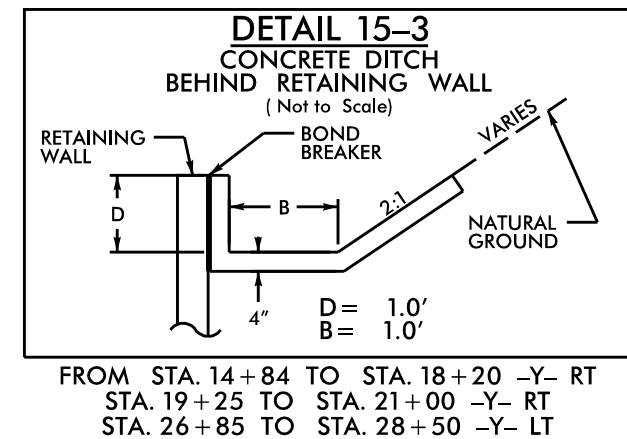
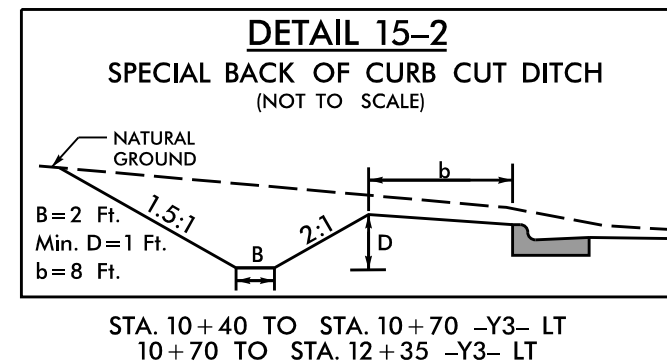
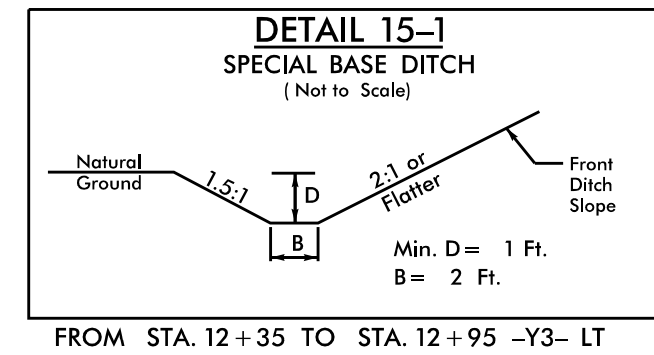
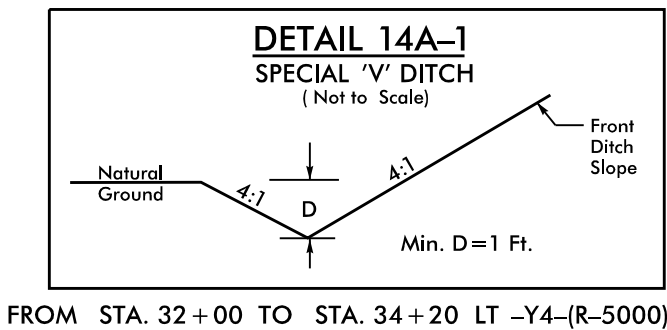
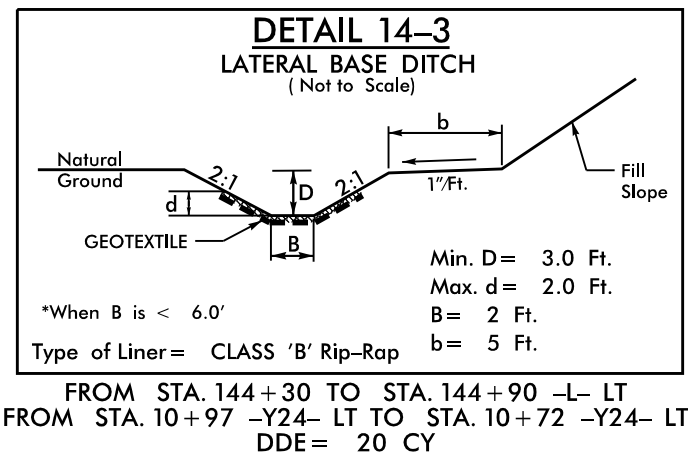
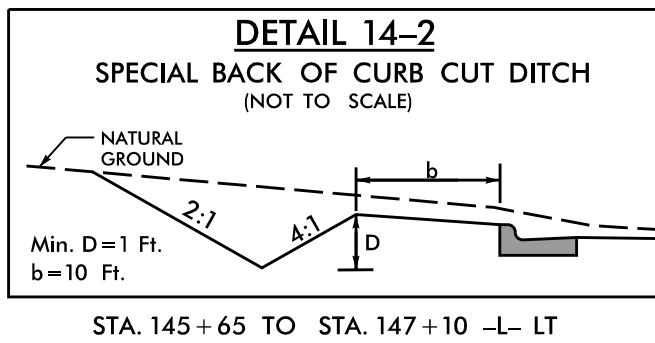
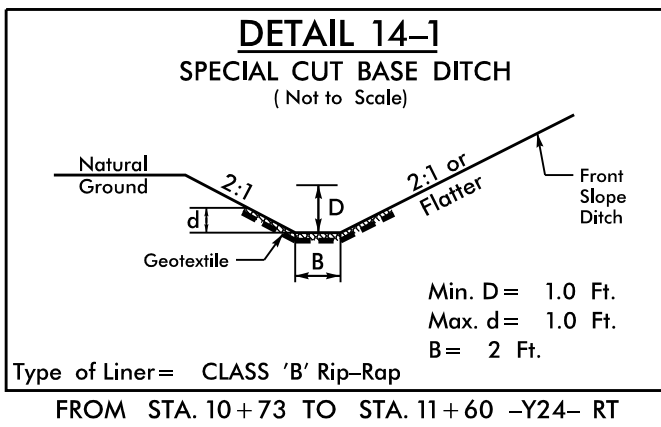
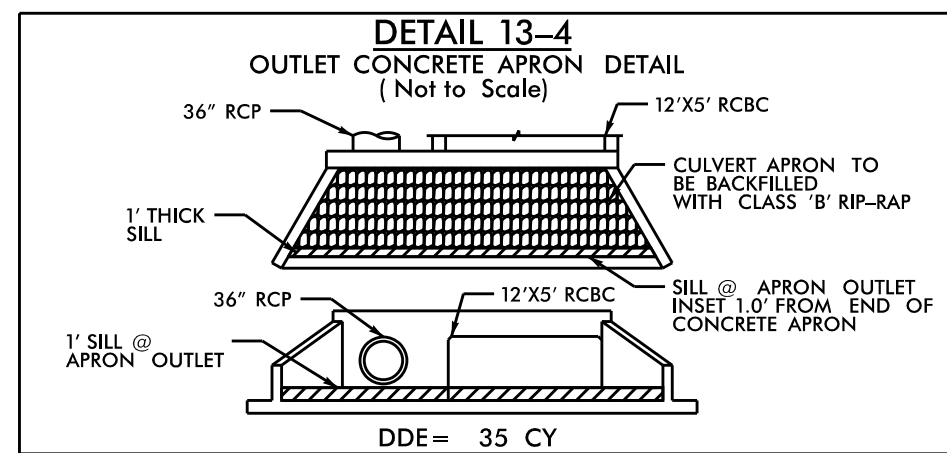
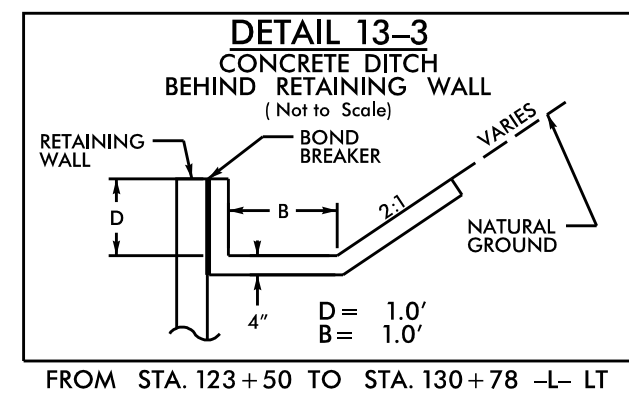
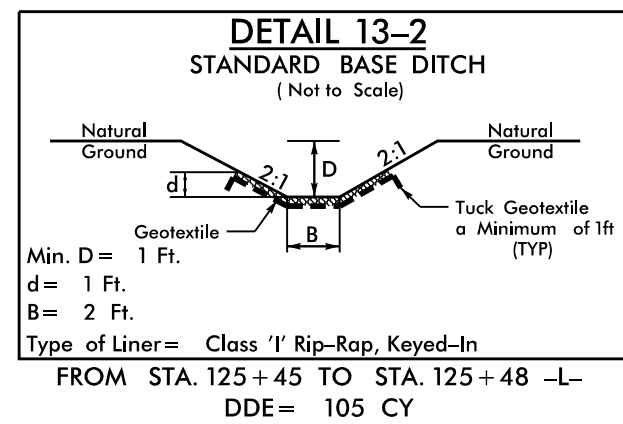
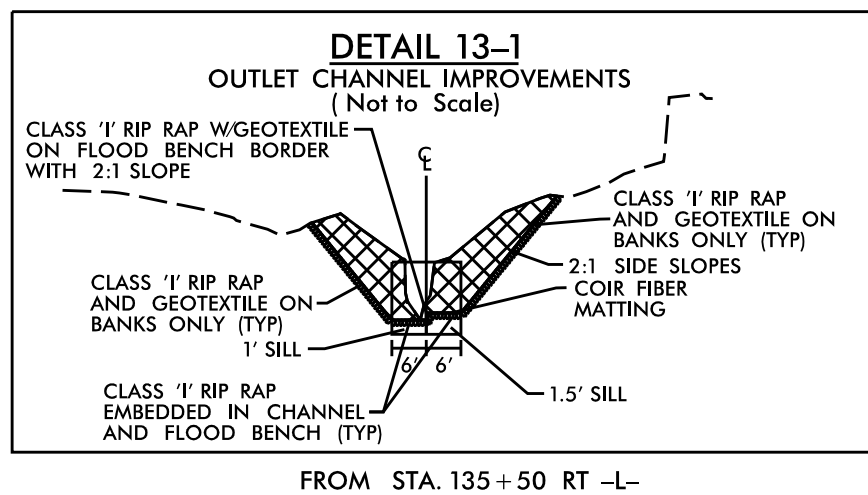
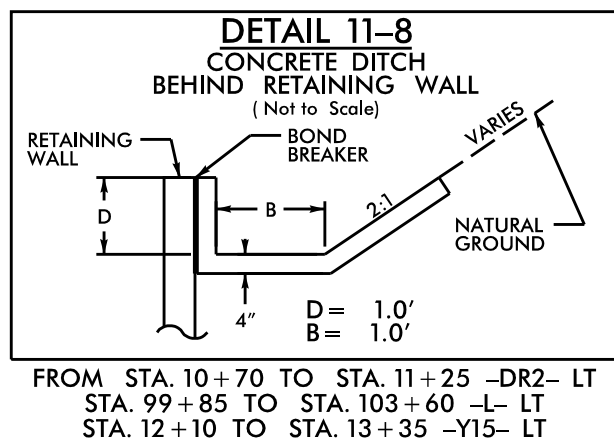
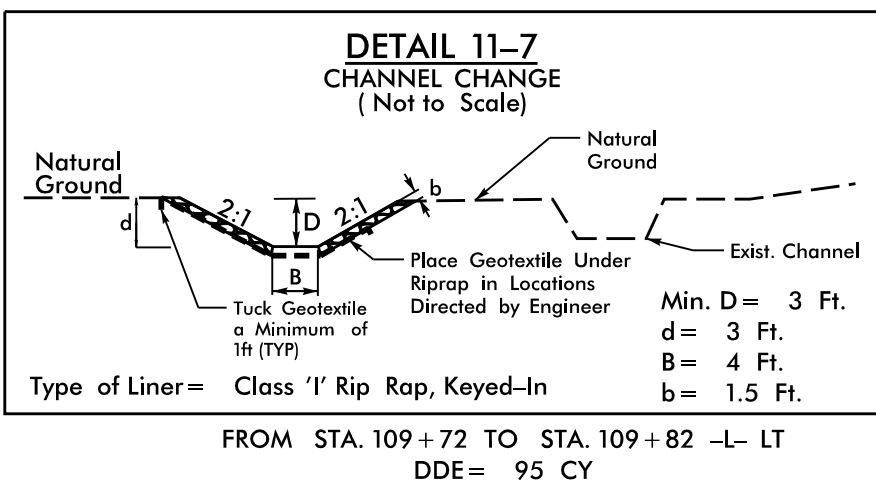
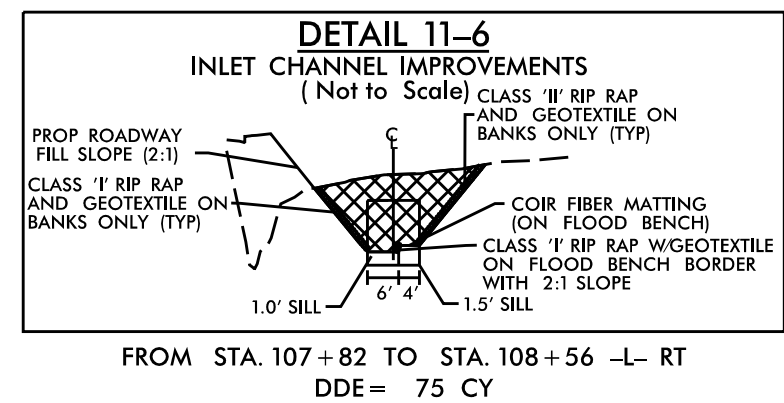
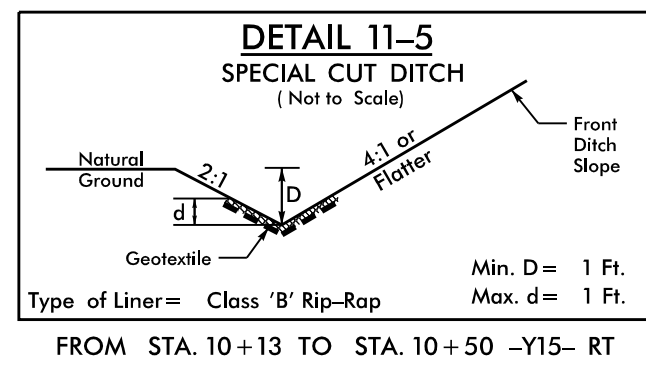
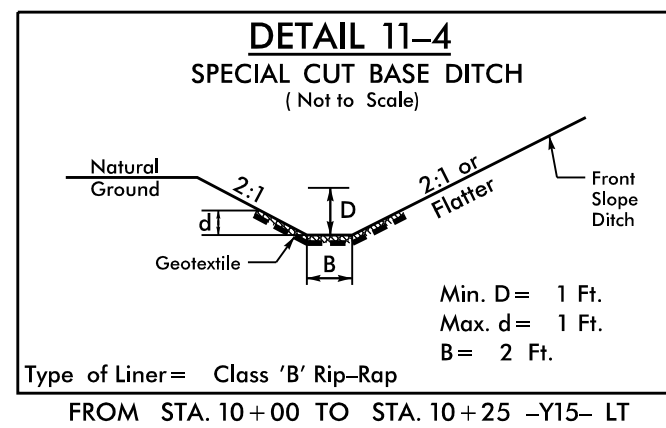
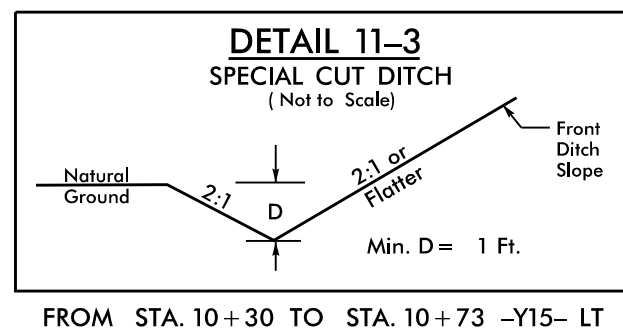
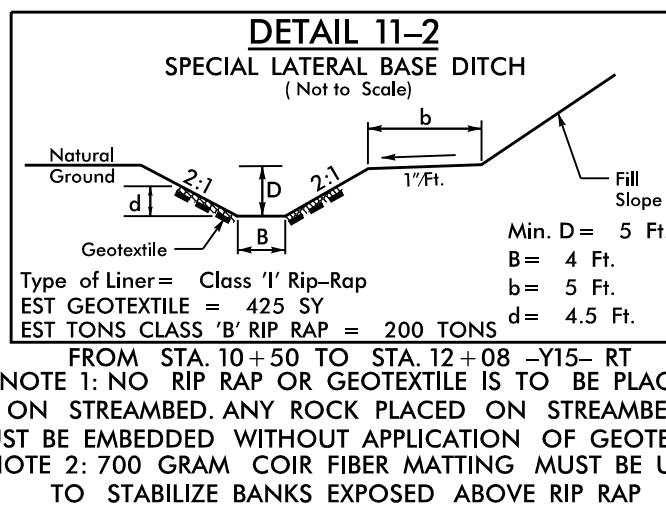
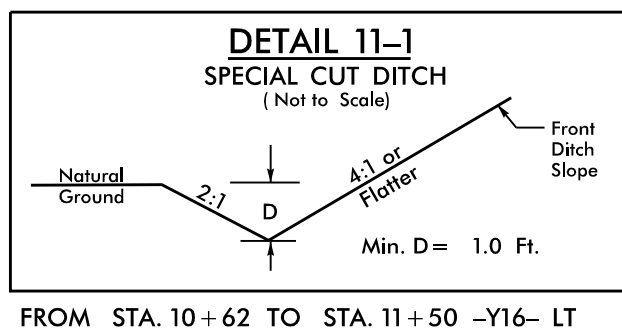
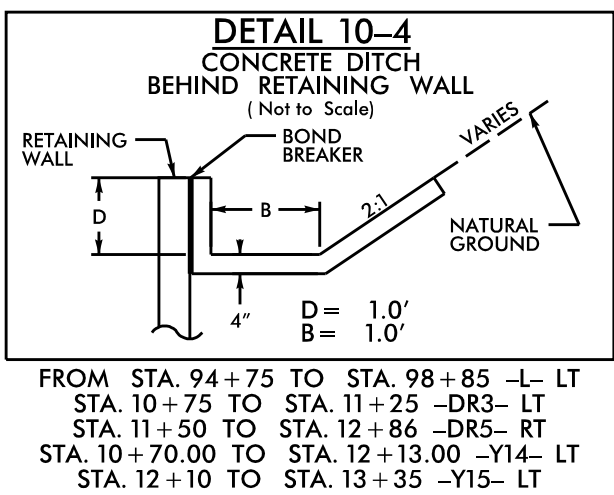
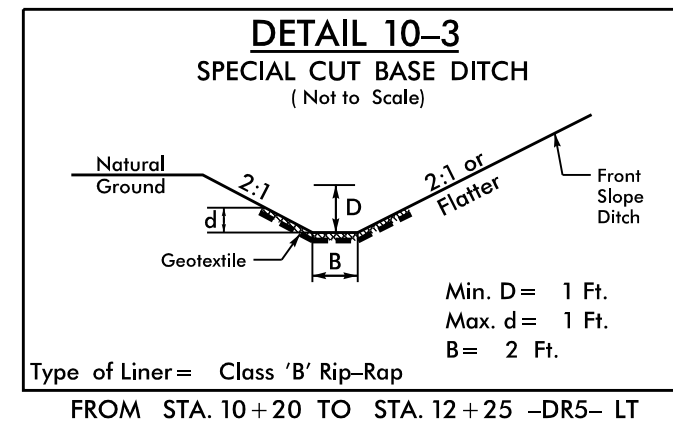
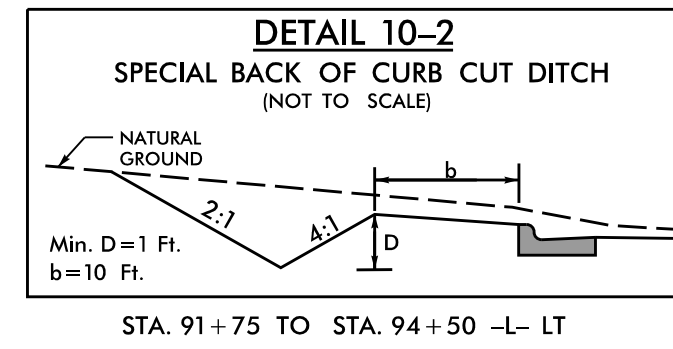
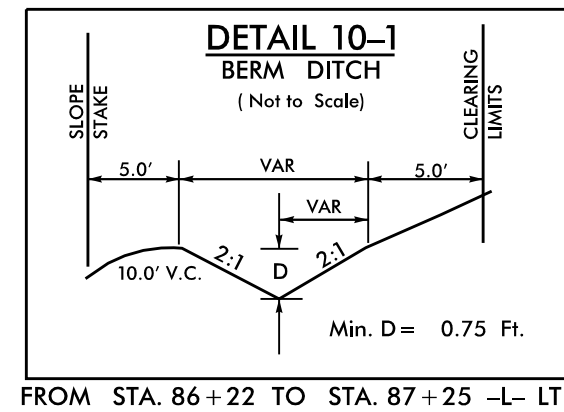
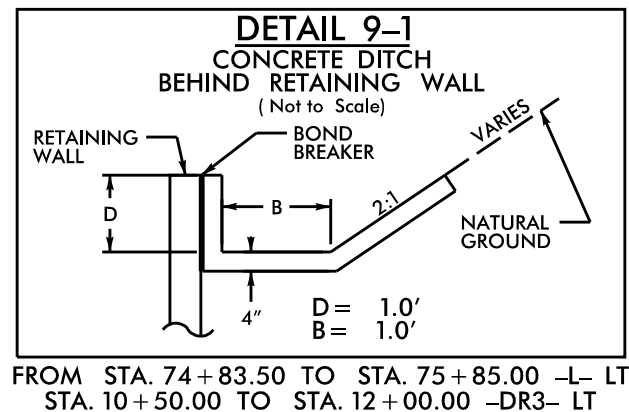
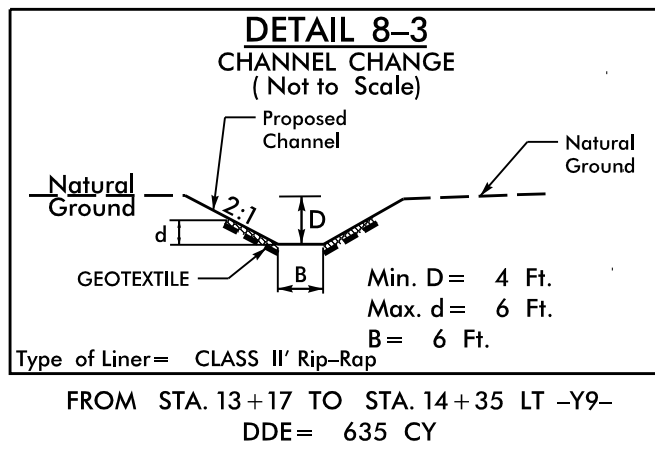
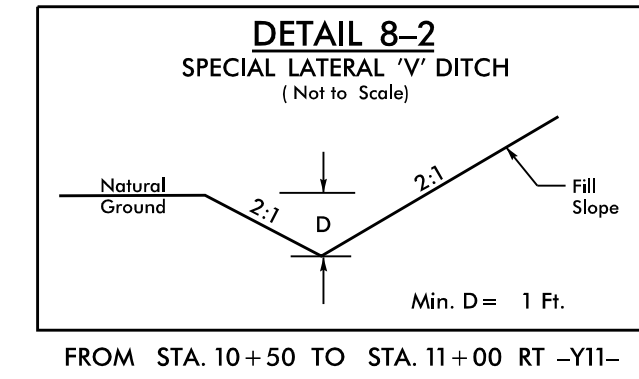
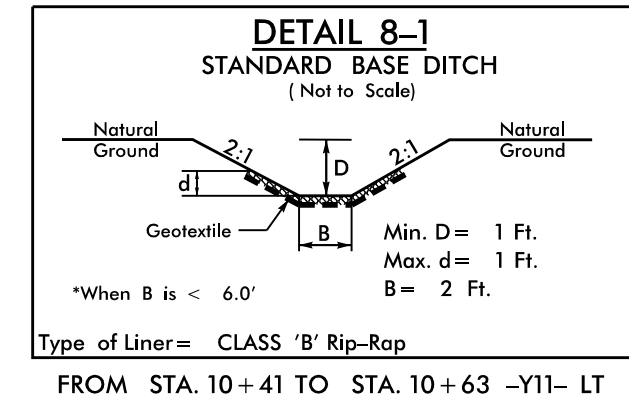
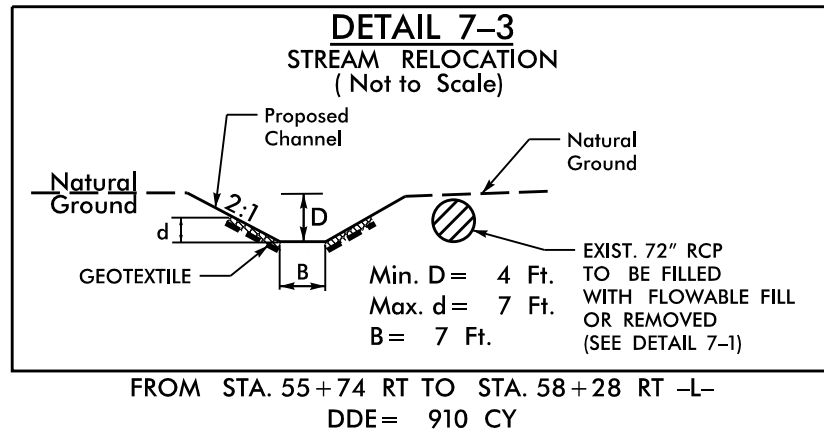
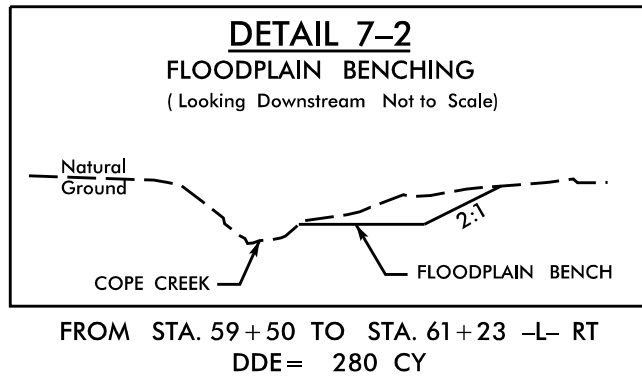
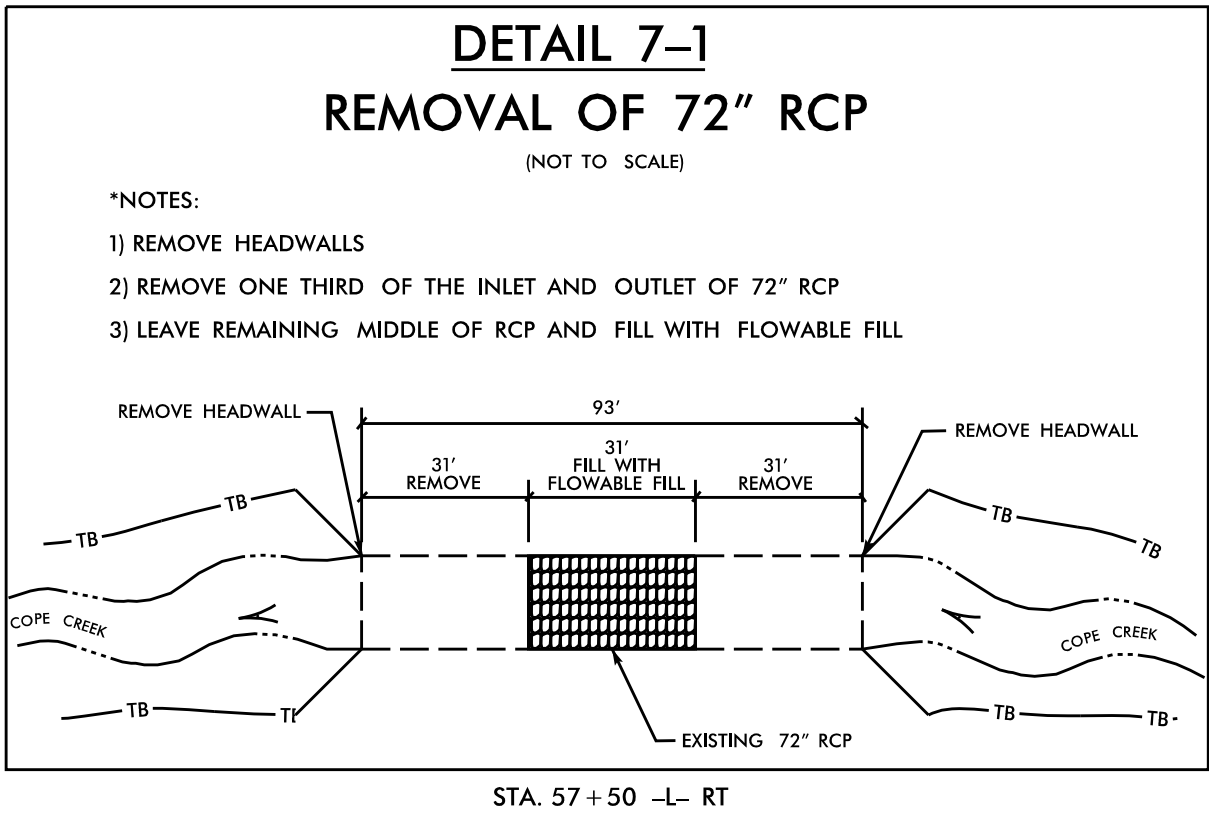
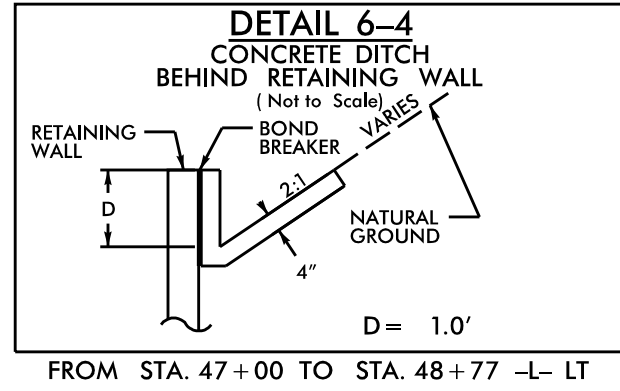
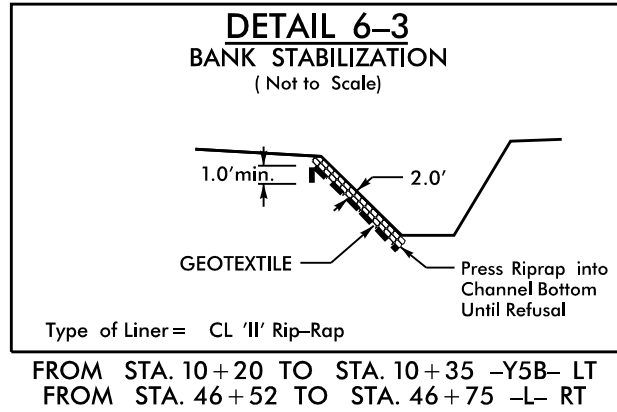
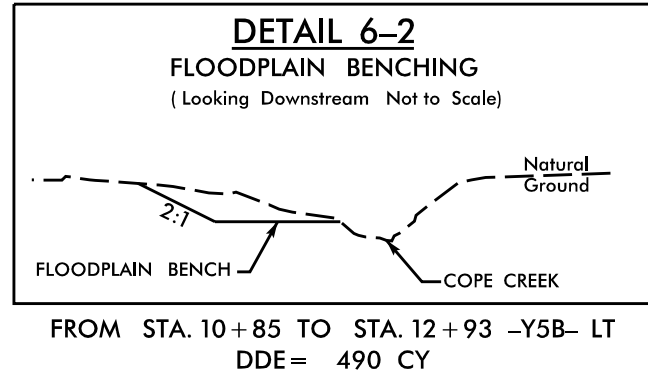
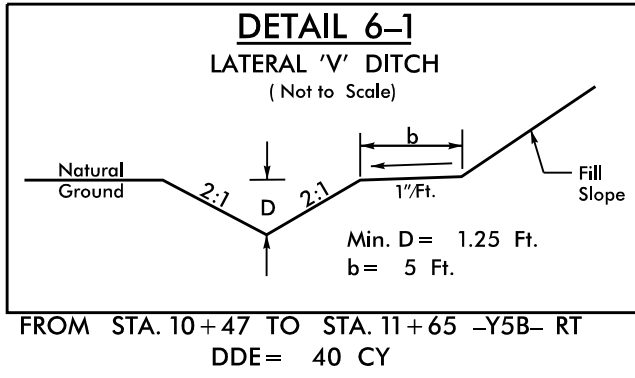
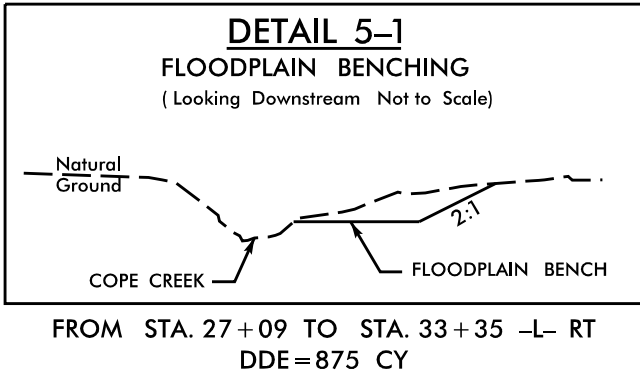
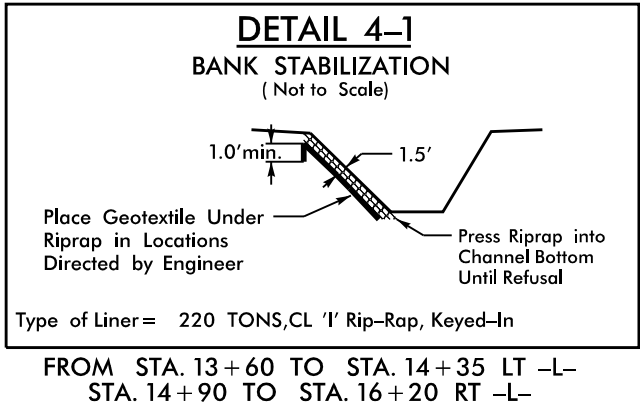
10/13/2025

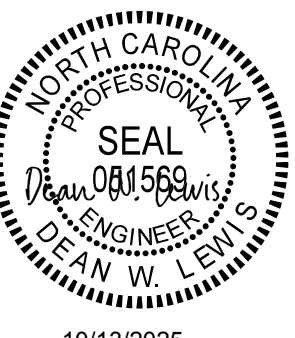
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

**CONTRACT STANDARDS
AND DEVELOPMENT UNIT**
Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

ORIGINAL BY: K.A. KEMPf DATE: 7-20-23
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.: 2024 details in lieu\852D0701.dgn



PROJECT REFERENCE NO.	SHEET NO.
R-5600	2D-1
RW SHEET NO.	
HYDRAULICS ENGINEER	
	
10/13/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

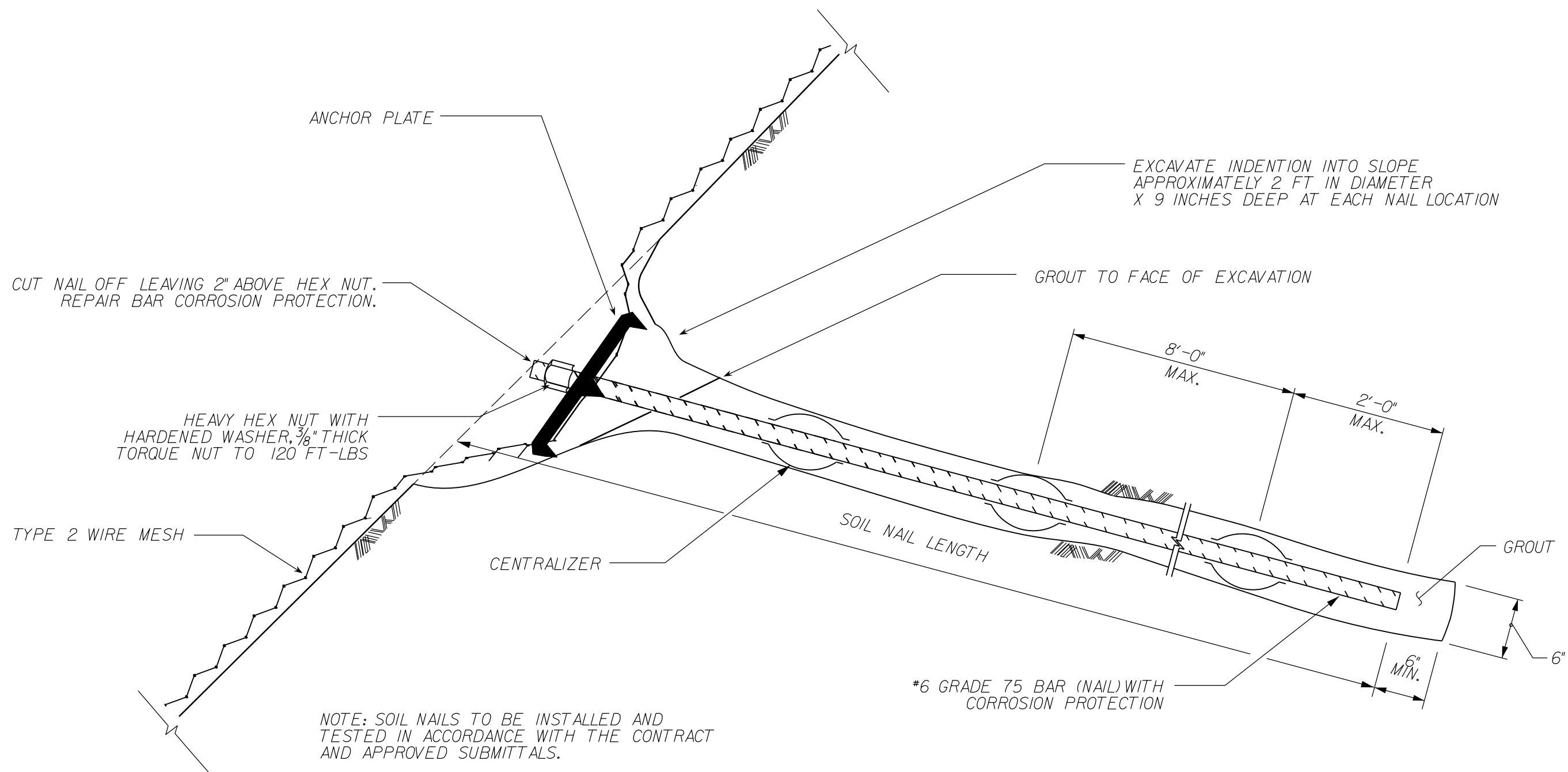
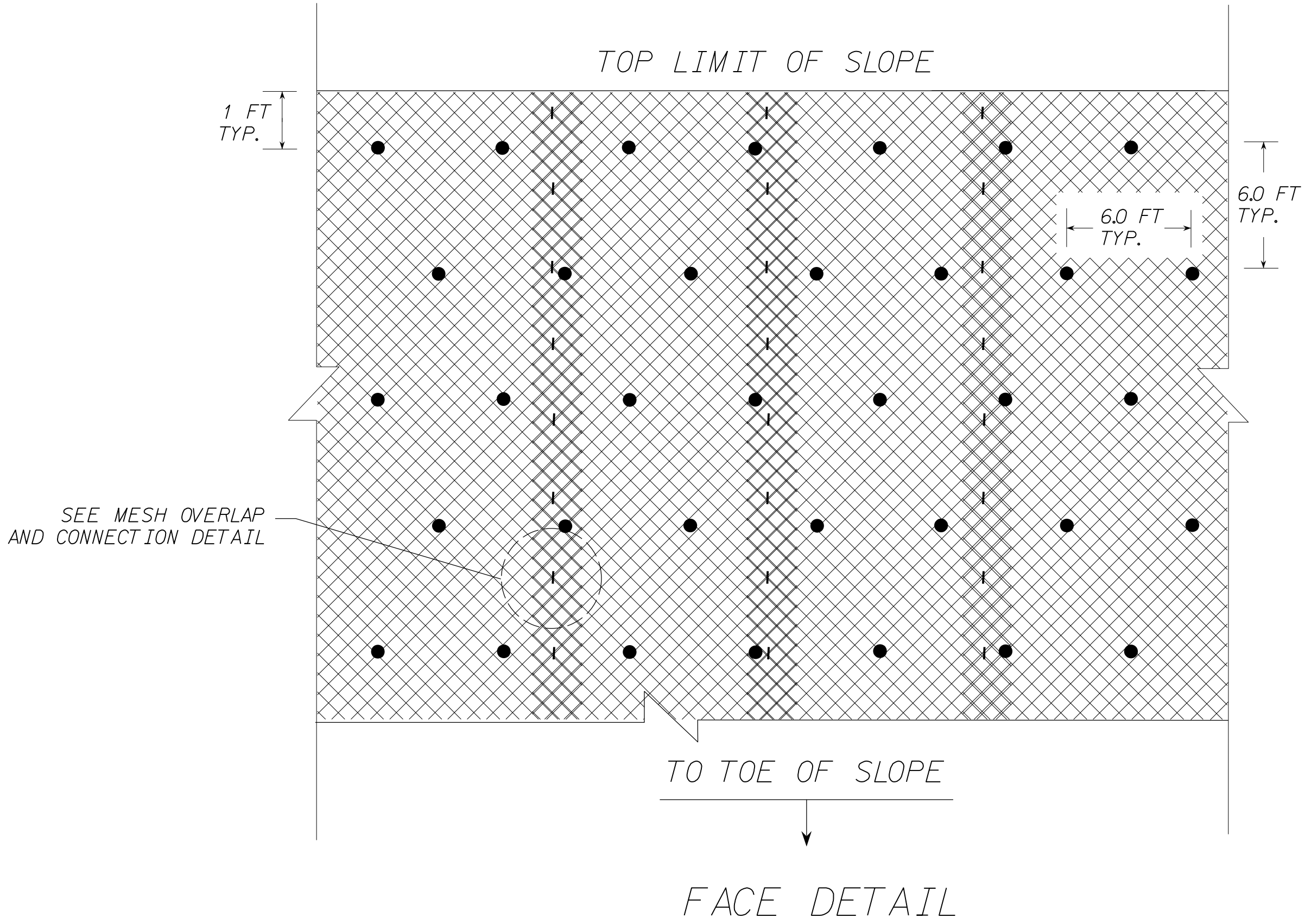


SOIL NAIL WALL UNDERNEATH EXISTING SRW - TYPICAL SECTION

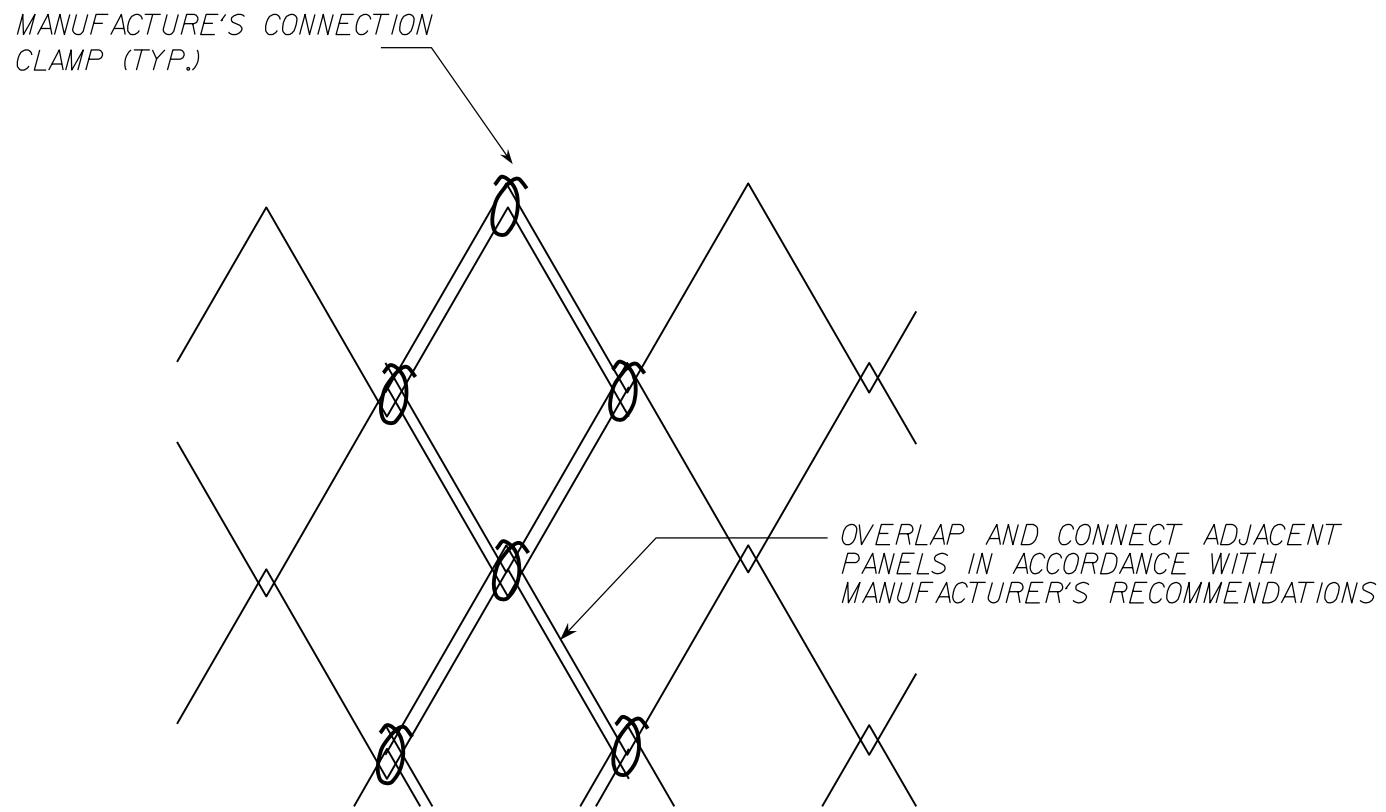
THE SCULPTED SHOTCRETE AT THE TOP OF THE WALL IS MEANT TO MIMIC A BOULDER AND HIDE THE UNDERPINNING WORK. THE SHOTCRETE MAY PROTRUDE BEYOND THE FACE OF THE SOIL NAIL WALL BY UP TO 18", BUT MUST BE BACK TO THE WALL FACE OFFSET WITHIN 8 FEET OF SIDEWALK GRADE.

2

REVISIONS						SHEET NO. 2G-1
NO.	BY	DATE	NO.	BY	DATE	
1	-	-	3	-	-	TOTAL SHEET 2
2	-	-	4	-	-	



TYPICAL SECTION



MESH OVERLAP & CONNECTION DETAIL

NOTES:

- 1) WIRE MESH SHALL BE INSTALLED ON 1:1 (H:V) SOIL CUT SLOPES TALLER THAN 10 FT AND AS DIRECTED BY THE ENGINEER.
- 2) SOIL NAIL LENGTH = 10 FT (TYP)
SUPPLEMENTAL NAIL LENGTH = 10 FT
- 3) DESIGN TEST LOAD (DTL) = 10 KIPS
- 4) INSTALL NAILS INTO SLOPE WITH AN INCLINATION OF 90 DEGREES (+/- 2) TO THE SLOPE FACE

TOTAL BILL OF MATERIAL

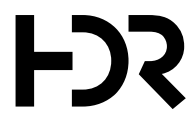
SOIL NAIL SLOPE STABILIZATION 300 SY

PROJECT NO.: R-5600
JACKSON COUNTY COUNTY
STATION: 79+00 -L-
SHEET 1 OF 1

SOIL NAIL SLOPE STABILIZATION

REVISIONS

NO.	BY	DATE	NO.	BY	DATE	SHEET NO.
1	-	-	3	-	-	2G-2
2	-	-	4	-	-	TOTAL SHEETS
						2



HDR Engineering, Inc. of the Carolinas
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

PREPARED BY: P. ZHANG	DATE: 04/24/25
REVIEWED BY: A. VARRI	DATE: 04/24/25

COMPUTED BY: CNM

CHECKED BY: ADS

DATE: 2/28/25

DATE: 9/5/2025

DIVISION OF HIGHWAYS

STATE OF NORTH CAROLINA

GUARDRAIL SUMMARY

PROJECT REFERENCE NO. R-5600

SHEET NO. 3B-1

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL

TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.

FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL

W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL

G = GATING IMPACT ATTENUATOR TYPE 350

NG = NON-GATING IMPACT ATTENUATOR TYPE 350

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH (L.F)			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOUL WIDTH	FLARE LENGTH		W		ANCHORS								IMPACT ATTENUATOR TYPE 350		SINGLE FACED CONCRETE BARRIER	REMOVE EXISTING GUARDRAIL	REMOVE & STOCKPILE EXISTING GUARDRAIL	REMARKS	
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	XI MOD	XI	GREU TL-2	GREU TL-3	AT-1	CAT-1	B-77	TYPE III SC	TYPE III	G					NG
L	13+48.37	13+68.00	LT		37.5		13+68.00	13+48.37	9	6									1			1							
L	14+00.66	14+11.00	RT		50		14+00.66	14+11.00	9	6									1			1							
L	14+46.50	15+02.75	LT	56.25			15+02.75	14+46.50	9	6		25	0.5	0.5			1						1						
L	14+89.00	15+45.25	RT	56.25			14+89.00	15+45.25	9	6	25						1						1						
L	25+32.00	26+61.50	RT	118.75			25+32.00	26+61.50	7.5	8	25		0.5				1						1						
L	26+08.25	26+89.50	LT	81.25			26+89.50	26+08.25	7.5	6		25		0.5			1						1						
L	27+59.50	28+47.00	RT	87.50			27+59.50	28+47.00	7.5	6	25		0.5				1						1						
L	27+75.00	28+22.75	LT	37.50	31.25		28+22.75	27+75.00	7.5	6									1				1						
L	40+38.00	41+68.00	RT	112.50	18.75		40+38.00	41+68.00	2	10	25		0.5				1												
L	63+18.00	63+63.00	RT	31.25	18.75		63+18.00	63+63.00	2	10	25		0.5				1			1									
L	64+70.00	65+40.00	LT	81.25	18.75		65+40.00	64+70.00	12	14									1										
L	106+59.00	108+65.25	RT	206.25			106+59.00	108+65.25	12	14																			
L	135+10.00	135+78.00	RT	56.25	25		135+10.00	135+78.00	12	14									1	1									
L	135+12.50	137+10.00	LT	193.75			137+10.00	135+12.50	12	14										1									
L	148+44.13	149+14.94	RT	72.875			148+44.13	149+14.94	15	17	50		1									1							
Y3	11+36.50	12+99.00	RT	162.5			11+36.50	12+99.00	4	6	25	25	0.5	0.5			2												
Y4	11+89.50	12+69.50	LT	50.00	62.5		12+69.50	11+89.50	6	9									2										
Y4	12+02.00	12+67.50	RT	37.50	56.25		12+02.00	12+67.50	6	9									1										
Y5A	10+30.00	10+80.00	LT	50.00			10+80.00	10+30.00	4	7		25		0.5			1												
Y5B	12+58.00	13+04.50	LT	25.00	25		13+04.50	12+58.00	4	7		25		0.5			1												
Y6	12+05.00	14+36.25	RT	231.25			12+55.00	14+36.25	6	9	25	25	0.5	0.5			2												
Y6	12+71.25	13+34.00	LT	50.00	25		13+34.00	12+71.25	2	10									1										
Y6	13+76.00	14+98.00	LT	106.25	37.5		14+98.00	13+76.00	2	10									1										
Y9	14+00.00	15+54.50	LT	125.00	31.25		15+54.50	14+00.00	2	10		25		0.5			1			1									
Y10	10+50.75	11+18.50	RT	43.75	43.75		10+50.75	11+18.50	12	14									1										
Y12	11+10.00	13+15.60	RT	162.50	75		11+10.00	13+15.60	2	5									2										
Y14	10+40.00	12+08.75	RT	168.75			10+40.00	12+08.75	4	7		25		0.5			1								6.25		TIE TO EXISTING GUARDRAIL		
Y15	10+10.00	10+72.50	LT	62.50			10+10.00	10+72.50	4	7	25	25	0.5	0.5			2												
Y15	10+60.00	14+57.00	RT	387.50	31.25		10+60.00	14+57.00	4/12	7/14	25		0.5				1												
Y23	10+50.00	11+05.00	LT	25.00	31.25		10+50.00	11+05.00	12	14		25		0.5			1												
TOTALS				2879.125	618.75												19	1	13	5	1	2	6			6.25			
DEDUCTIONS FOR ANCHOR UNITS																													
	GREU TL-2	19	25	-475																									
	GREU TL-3	1	50	-50																									
	AT-1	13	6.25	-37.5	-43.75																								
	CAT-1	5	6.25	-18.75	-12.5																								
	B-77	2	22.875	-45.75																									
	TYPE III SC	2	18.75	-37.5																									
	TYPE III	6	18.75	-112.5																									
GRAND TOTAL				2139.63	562.50												19	1	13	5	1	2	6			12.5			
SAY				2150.00	575.00		5 EACH ADDITIONAL GUARDRAIL POSTS																			12.5			
Temporary Guardrail																													
Y3	11+83.21	12+96.25	RT	112.5			11+83.21	12+96.25	2	10							2												
DEDUCTIONS FOR ANCHOR UNITS																													
	GREU TL-2	2	25	-50																									
GRAND TOTAL				62.50	0.00																								
SAY				75.00	0.00																								

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.

R-5600

SHEET NO.

3B-3



HDR Engineering, Inc. of the Carolinas

555 Fayetteville St, Suite 900 Raleigh, N.C. 27601

N.C.B.E.L.S. License Number: F-0116

EXISTING ASPHALT PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD ²
-L-	24 + 63.59	25 + 36.83	LT	117.93
-L-	25 + 93.83	27 + 01.41	LT	233.84
-L-	27 + 54.20	27 + 67.66	LT	17.73
-L-	27 + 71.86	28 + 10.22	LT	33.81
-Y2-	10 + 81	12 + 29	RT	253.28
-Y-	23 + 07	23 + 61	RT	348.28
-Y4-	13 + 00.28	13 + 59.29	RT	156.76
-L-	40 + 81.02	41 + 13.77	LT	81.12
-Y5B-	11 + 01.03	12 + 83.55	LT	290.88
-Y9-	12 + 00.96	12 + 92.13	LT	153.62
-Y9-	13 + 02.73	13 + 42.08	LT	118.15
-Y10-	10 + 46.99	11 + 70.90	LT	468.89
-Y10-	11 + 35.90	11 + 79.40	LT	34.29
-Y10-	12 + 06.77	12 + 94.89	LT	157.78
-L-	75 + 51.17	77 + 38.92	LT	125.71
-Y15-	10 + 85.37	11 + 18.26	LT	43.08
-Y16-	10 + 57.16	12 + 31.98	LT	442.87
-Y24-	10 + 54.77	11 + 71.90	LT	211.90
-Y3-	11 + 83.00	13 + 33.00	RT	300.00
-Y18-	10 + 74.00	12 + 10.00	LT	244.44
-Y18-	11 + 12.00	12 + 02.00	LT	31.11
-L-	80 + 00.00	82 + 80.00	RT	125.00
-L-	119 + 80.00	120 + 02.00	RT	24.67
-L-	120 + 40.00	120 + 48.00	RT	14.78
-L-	121 + 76.00	121 + 85.00	RT	20.00
		TEMPORARY SIDEWALK PROJECT WIDE		2,256.67
TOTAL:				6,306.59
SAY:				6,310

EXISTING ASPHALT PAVEMENT BREAKING SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD ²
-Y4-	11 + 25	12 + 09	CL	185.47
-Y6-	13 + 25	15 + 00	CL	403.01
TOTAL:				588.47
SAY:				600

COMPUTED BY: Paul Zhang DATE: 9/3/25
CHECKED BY: Kenny Bussey DATE: 9/3/25

(9-3-25)

PROJECT NO. SHEET NO.
R-5600 3G-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF SUBSURFACE DRAINAGE

LINE	Station	Station	Location LT/RT/CL	Drain Type* UD/BD/SD	LF
-L-	26+00	26+76	LT&RT	SD	200
-L-	27+67	30+75	LT&RT	SD	650
-L-	33+75	34+75	RT	SD	100
-L-	58+25	81+75	LT&RT	SD	4700
-L-	84+25	98+00	LT&RT	SD	2800
-L-	108+75	130+25	LT&RT	SD	4300
-L-	147+75	149+57	LT&RT	SD	400
-Y10-	10+38	12+50	LT	SD	250
-DRWY3-	10+50	11+25	LT	SD	100
CONTINGENCY					2000
				TOTAL LF:	15500

*UD = Underdrain
*BD = Blind Drain
*SD = Subsurface Drain

SUMMARY OF ROCK PLATING

LINE	Beginning Slope (H:V)	Approx. Station	Ending Slope (H:V)	Approx. Station	Location LT/RT	Rock Plating Detail No. 1/2/3/4	Riprap Class* 1/2/B	Rock Plating SY
-L-	1.5:1	40+50	1.5:1	41+68	RT	1		450
-L-	1.6:1	108+00	1.6:1	108+56	LT	1		110
-L-	1.5:1	135+16	1.5:1	135+72	LT	1		120
-Y6-	1.5:1	13+76	1.5:1	14+98	RT	1		450
-Y-	1.5:1	16+14	1.5:1	19+69	RT	1		4100
-Y9-	1.5:1	13+75	1.5:1	14+25	LT	1		100
-Y23-	1.5:1	10+50	1.5:1	10+75	LT	1		50
-DR3-	1.5:1	10+50	1.5:1	11+25	RT	1		100
-DR5-	1.5:1	11+50	1.5:1	12+67	RT	1		410
-Y14-	1.5:1	11+75	1.5:1	12+31	LT	1		110
							TOTAL SY:	6000

*Use Class 1, 2 or B riprap if riprap class is not shown for rock plating location.

SUMMARY OF AGGREGATE SUBGRADE/STABILIZATION

LINE	Station	Station	Aggregate Type* ASU(1/2)/ AST	Aggregate Thickness INCHES [8" for ASU(2)]	Shallow Undercut CY	Class IV Subgrade Stabilization TONS	Geotextile for Subgrade Stabilization SY	Stabilizer Aggregate TONS	Class IV Aggregate Stabilization TONS
-L-	27+67	30+25	ASU	18	740	1420	1500		
-L-	34+25	35+25	ASU	18	350	660	700		
-L-	39+25	40+75	ASU	18	250	500	550		
-L-	102+75	103+75	ASU	18	150	270	300		
-L-	116+25	119+75	ASU	18	650	1300	1400		
-L-	122+75	125+25	ASU	18	560	1100	1150		
-L-	128+25	129+25	ASU	18	180	340	360		
-Y5B-	11+25	12+75	ASU	18	220	410	440		
CONTINGENCY			ASU	18	4600	9050	9500		
			TOTAL CY/TONS/SY:		7700	15050**	15900**	0	0

*ASU(1/2) = Aggregate Subgrade (Type 1 or 2)
*AST = Aggregate Stabilization
**Total tons of "Class IV Subgrade Stabilization" and total square yards of "Geotextile for Subgrade Stabilization" are only the estimated quantities for ASU(1/2)/AST and may only represent a portion of the subgrade stabilization and geotextile quantities shown in the Item Sheets of the Proposal.

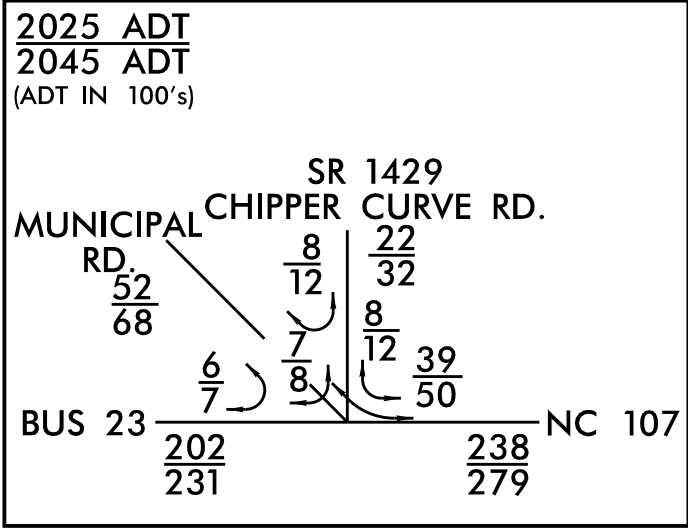
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
PARCEL INDEX SHEET

PROJ. REFERENCE NO.	SHEET NO.
R-5600	3P-1

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
1A	4,5	JEAN MONTEITH ENSLEY REVOCABLE TRUST
2	4	SAMUEL CLEMMONS
2A	4	SAMUEL CLEMMONS
3	4	GARY W. GIBSON
4	4	CENTRAL SYLVA MAIN, LLC
5	4	DAVID J. HART, ET AL
6	4	WHOLESALE INVESTMENTS, LLC
7	4	JOSEPH SHELLEY, ET AL
8	4	CHRIS WHITMIRE
9	4	FARM DOGS, LLC
10	4	CARROLL SUTTON
11	4,5	JACKSON PAPER MANUFACTURING COMPANY
12	5	TUCKASEIGEE WATER & SEWER AUTHORITY
14	5	KENNETH L. OWEN
15	5	EKEK, LLC
15A	5	EKEK, LLC
16	5	ECKERD CORPORATION
17	5	GENEVA G. LINEBERRY
18	5	OWEN & GATES, LLC
19	5	C. T. AUTO SERVICE, INC.
20	5,6	KEL-SAVE, INC., ROBERT D. KELLEY
20A	5	38 EAST MAIN LLC
21	5	NC RENTALS, LLC
22	5	EL PATRON MEXICAN RESTAURANT INC
23	5	FF SYLVA LLC
24	5	ALPINE SYLVA, LLC
25	5	SAINTS EUROPEAN HOLDINGS, INC.
25Z	5	SAINTS EUROPEAN HOLDINGS, INC.
28	5	THE FISH CAMPA, LLC
29	5	NHN HOLDINGS, LLC
30	5	K&HB ENTERPRISES, LLC
31	5	TIMOTHY L. HALL
32	5, 6	WEST SYLVA MAIN, LLC
35	6	PT PROPERTIES OF WNC, LLC
36	6	T & D'S ENTERPRISES, LLC
37	6	SKYLAND PROPERTIES OF WNC INC
38	6	RODNEY A. RIDDLE
38A	6	R. LARRY CRAWFORD
39	6	HENSLEY, B DONALD TRUSTEE & HENSLEY, GAIL W TRUSTEE
40	6	TINY PROPERTIES, LLC
41	6	CHURCH OF GOD OF SYLVA, NC TTES
41A	6	PAINTER, BETTY J TRUSTEE
41B	6	PAINTER, BETTY J TRUSTEE
42	6	PEGGY REVIS
43	6	BILLY C. AIKENS
44	6, 7	OPM HOLDINGS, LLC
45	6	THREE LEES, LLC
46	6	THREE LEES, LLC
47	6	DEBRA P. WOODS, TRUSTEE OF THE BETTY J. PAINTER 2020 IRREVOCABLE TRUST
48	6	ROBERT L. MIDDLETON
49	6	CLEARENCE G. MIDDLETON
50	6	HAROLD E. MIDDLETON
51	6	DOROTHY FRANKLIN, ET AL
52	6	BRENDA J. PATTERSON, TRUSTEE
53	6	SARA B.ALLISON, ET AL
54	6, 7	AUTOSTAR PROPERTY GROUP, LLC
55	7	MELLIE LEE ALLEN, ET AL
56	7	HIZEYZ LLC
57	7	BD WOODS PROPERTIES LLC
58	7	PACIFICO OF SYLVA, INC.

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
59	7	STILL BROOK PROPERTIES, LLC
60	7, 8	SELECT BANK & TRUST CO
61	7	FFC LIMITED PARTNERSHIP
62	7	NATIONAL RETAIL PROPERTIES, LP
63	7	GTY AUTO SERVICE LLC
64	7	M. HODGIN PROPERTIES, LLC
65	7	NATHAN EARWOOD, P.C.
66	7,8	475 E MAIN STREET LLC
66A	8	KRISTIN COFFEY, ET AL
67	7,8	RODNEY A. RIDDLE
67Z	7,8	RODNEY A. RIDDLE
67A	8	LANA C. PHILLIPS
68	8	RONNIE A. RIDDLE
68A	8	THOMAS HART GOODSON, JR., ET UX
69	8	ERROL ENGLISH
70	8	MISTY TAYLOR
71	8	MISTY SHULER TAYLOR
72	8	RLJOC HOLDINGS CO LLC
73	8	RLJOC HOLDINGS CO LLC
74	8	VIRGINIA KINKAID, TRUSTEE
75	8	SOCOL COMPANY, INC.
77	8	ENMARK STATIONS, INC.
77A	8	TINY PROPERTIES, LLC
78	8	POLE YARD PROPERTIES, LLC
79	8	DAVID GATES
80	8	GOODWILL INDUSTRIES OF NORTHWEST NORTH CAROLINA, INC.
81	8	STONEHOUSE ASSOCIATES
82	8	DT RETAIL PROPERTIES, LLC
83	8	AGREE STORES, LLC
84	8, 9	KEVIN E. STANBERRY, ET AL
85	8, 9	VISION QUEST PROPERTIES, LLC
86	9	PORT OF CALL, INC.
86A	8,9	TINSEL TOWN, INC.
87	9	TRIPLE "C" INVESTMENT, INC.
88	9	SGI OF WNC LLC
89	9	MARK STEIN, ET AL
90	9	ROBERT M. PRICE
91	9, 10	RALEIGH DOUBLE COUSINS PROPERTIES, LLC
92	9	THE NORTH CAROLINA DISTRICT COUNCIL OF THE ASSEMBLIES OF GOD, INC.
93	9	GLEN H. HENSLEY, TRUSTEE
94	9	LARRY BARNES
95	9	PATRICIA COWEN
95A	9	GOSI, LLC
96	9	NORLINAZ, LLC
97	9	DALLAS A. STEPHENS
98	9	MATTHEW JAMES HUNTER
99	9, 10	THOMAS J. CALDWELL
100	10	MARK A. QUEEN, ET AL
101	10	MARCIA P. QUEEN & DENISE P. WHITE
102	10	EMILY PRYOR LAND HOLDING, LLC
102Z	10	EMILY PRYOR LAND HOLDING, LLC
103	10	BARBARA C. DAVIS
103A	10	EBFP BUCKLEY HOLDINGS, LLC
104	10	SARA B.ALLISON, ET AL
105	10	SYLVA SHOPS LIMITED PARTNERSHIP
106	10, 11	COLDWATER INVESTORS, LLC
107	10	CLEATUS C. BARRON
108	10	DAVID L. KELLEY
109	10, 11	HINTON-SHAW PROPERTIES, LLC
110	11	AGREE LP

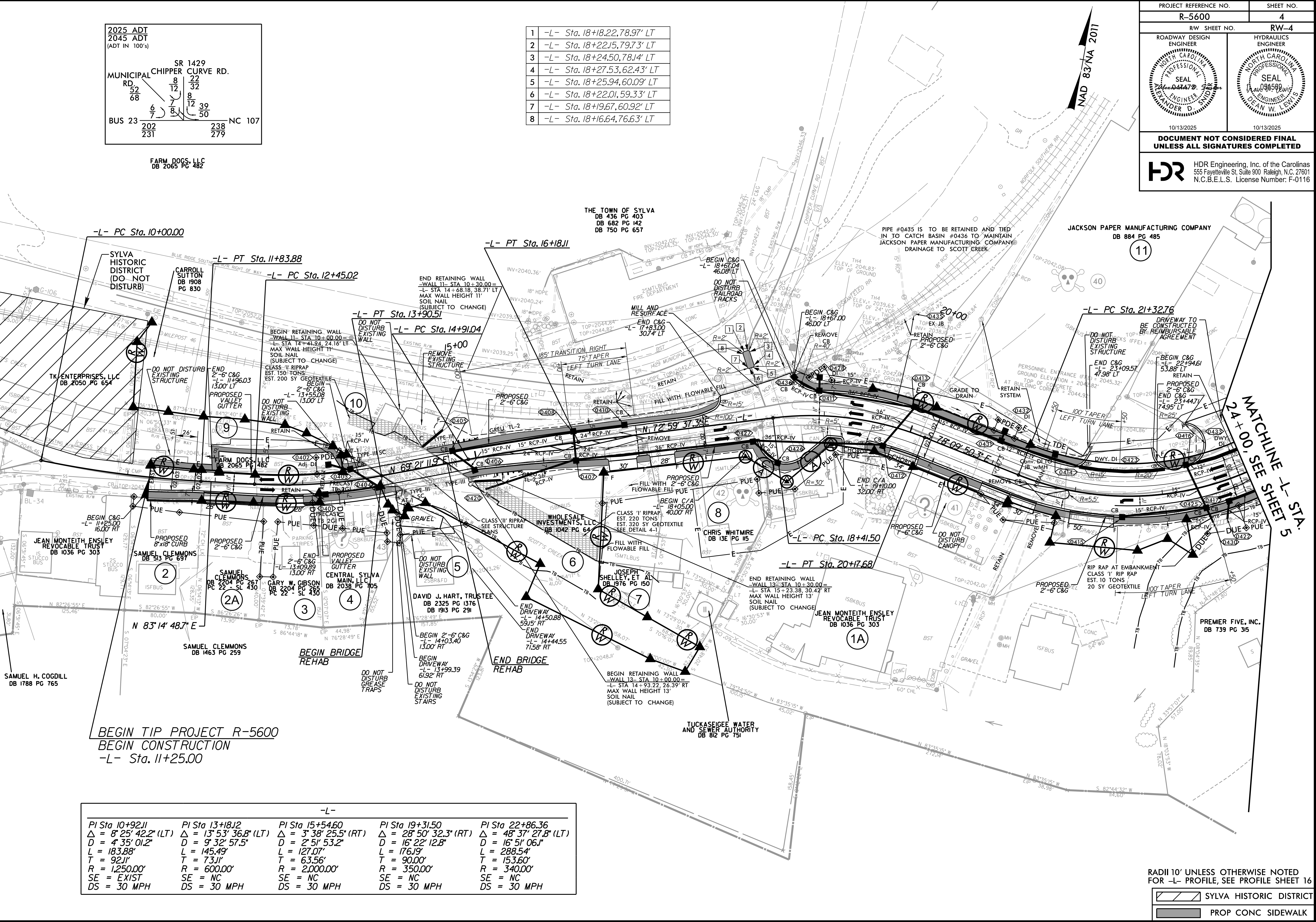
PROJ. REFERENCE NO.	SHEET NO.
R-5600	3P-2



FARM DOGS, LLC
DB 2065 PG 482

1	-L- Sta. 18+18.22, 78.97' LT
2	-L- Sta. 18+22.15, 79.73' LT
3	-L- Sta. 18+24.50, 78.14' LT
4	-L- Sta. 18+27.53, 62.43' LT
5	-L- Sta. 18+25.94, 60.09' LT
6	-L- Sta. 18+22.01, 59.33' LT
7	-L- Sta. 18+19.67, 60.92' LT
8	-L- Sta. 18+16.64, 76.63' LT

PROJECT REFERENCE NO. R-5600		SHEET NO. 4	
RW SHEET NO. RW-4		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		NORTH CAROLINA PROFESSIONAL SEAL 10/13/2025	
NORTH CAROLINA PROFESSIONAL SEAL 10/13/2025		NORTH CAROLINA PROFESSIONAL SEAL 10/13/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116			



BEGIN TIP PROJECT R-5600
BEGIN CONSTRUCTION
-L- Sta. 11+25.00

-L-				
PI Sta 10+92.11	PI Sta 13+18.12	PI Sta 15+54.60	PI Sta 19+31.50	PI Sta 22+86.36
Δ = 8° 25' 42.2" (LT)	Δ = 13° 53' 36.8" (LT)	Δ = 3° 38' 25.5" (RT)	Δ = 28° 50' 32.3" (RT)	Δ = 48° 37' 27.8" (LT)
D = 4' 35' 01.2"	D = 9' 32' 57.5"	D = 2' 51' 53.2"	D = 16' 22' 12.8"	D = 16' 51' 06.1"
L = 183.88'	L = 145.49'	L = 127.07'	L = 176.19'	L = 288.54'
T = 92.11'	T = 73.11'	T = 63.56'	T = 90.00'	T = 153.60'
R = 1,250.00'	R = 600.00'	R = 2,000.00'	R = 350.00'	R = 340.00'
SE = EXIST	SE = NC	SE = NC	SE = NC	SE = NC
DS = 30 MPH	DS = 30 MPH	DS = 30 MPH	DS = 30 MPH	DS = 30 MPH

RADII 10' UNLESS OTHERWISE NOTED
FOR -L- PROFILE, SEE PROFILE SHEET 16

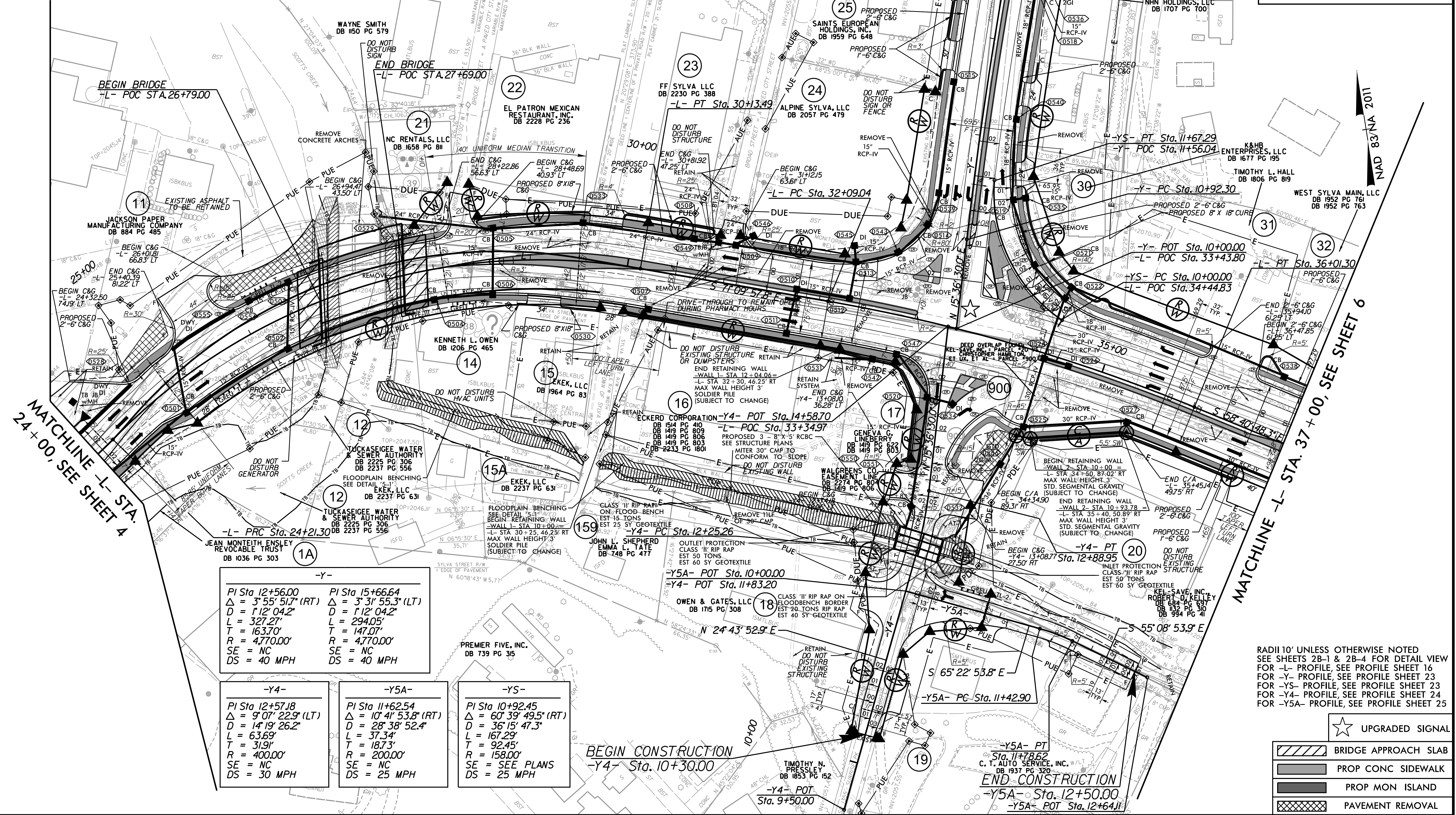
SYLVA HISTORIC DISTRICT
PROP CONC SIDEWALK

2025 ADT 2045 ADT (ADT IN 100's)	BUS 23 ASHEVILLE HWY. 281 320		205 232 365 421
NC 107	238 279	74 85	NC 107
	9 10	5 6	
		15 19	
	SR 1355 SUNRISE PARK		

-L-		
PI Sta 22+86.36 Δ = 48° 37' 27.8" (LT) D = 16° 51' 06.1" L = 288.54' T = 153.60' R = 340.00' SE = NC DS = 30 MPH	PI Sta 27+43.07 Δ = 55° 37' 20.3" (RT) D = 9° 23' 33.9" L = 592.18' T = 321.77' R = 610.00' SE = NC DS = 30 MPH	PI Sta 34+05.95 Δ = 12° 29' 09.5" (RT) D = 3° 10' 59.2" L = 392.26' T = 196.91' R = 1,800.00' SE = 03 DS = 40 MPH

(14)	UNITED COMMUNITY BANK DB 1622 PG 542
(28)	THE FISH CAMPA, LLC DB 2170 PG 196
(900)	CHRISTOPHER HAMILTON, ET UX, ET AL DB 2303 PG 1452 DB 2275 PG 475 DB 2274 PG 804 DB 1419 PG 806

PROJECT REFERENCE NO. R-5600	SHEET NO. 5
RW SHEET NO. RW-5	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	SEAL NORTH CAROLINA PROFESSIONAL ENGINEER 10/13/2025
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-01116	



-Y-	
PI Sta 12+56.00 Δ = 3° 55' 51.7" (RT) D = 1° 12' 04.2" L = 327.27' T = 163.70' R = 4,770.00' SE = NC DS = 40 MPH	PI Sta 15+66.64 Δ = 3° 31' 55.3" (LT) D = 1° 12' 04.2" L = 294.05' T = 147.07' R = 4,770.00' SE = NC DS = 40 MPH

-Y4-
PI Sta 12+57.18 Δ = 9° 07' 22.9" (LT) D = 14° 19' 26.2" L = 63.69' T = 31.91' R = 400.00' SE = NC DS = 30 MPH

-Y5A-
PI Sta 11+62.54 Δ = 10° 41' 53.8" (RT) D = 28° 38' 52.4" L = 37.34' T = 187.3' R = 200.00' SE = NC DS = 25 MPH

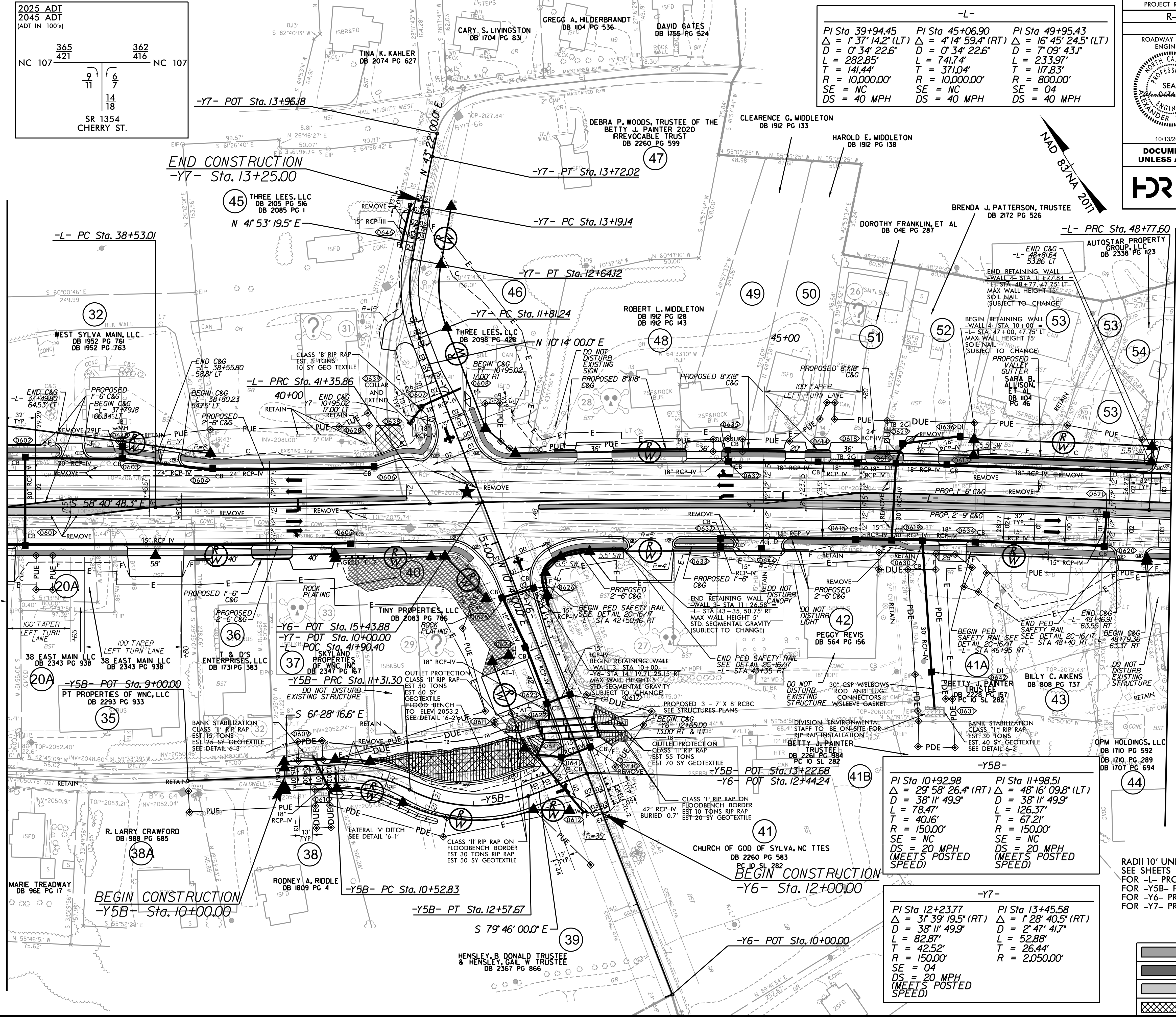
-YS-
PI Sta 10+92.45 Δ = 60° 39' 49.5" (RT) D = 36° 15' 47.3" L = 167.29' T = 92.45' R = 158.00' SE = SEE PLANS DS = 25 MPH

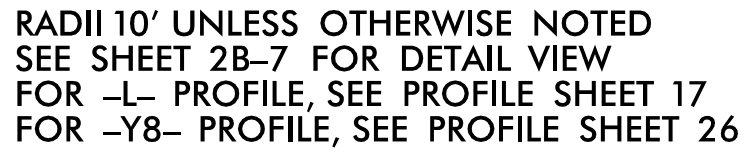
PLOT DRIVER: NCDOT_1.pdf_color_eng_50.pht
PENTABLE: R5600.pshp.fl.tbl
TIME: 11/28/03 AM
DATE: 10/10/2025
USER: CHANDEN
FILE: NCDOT\NCDOT_Western_Div_On-Coll_M_NCDOT_6170_R5600_NC107_U23BUSV6.0_CAD_BIMV6.2_Work_In_Progress\R-5600_Rdy.psh-5.dgn



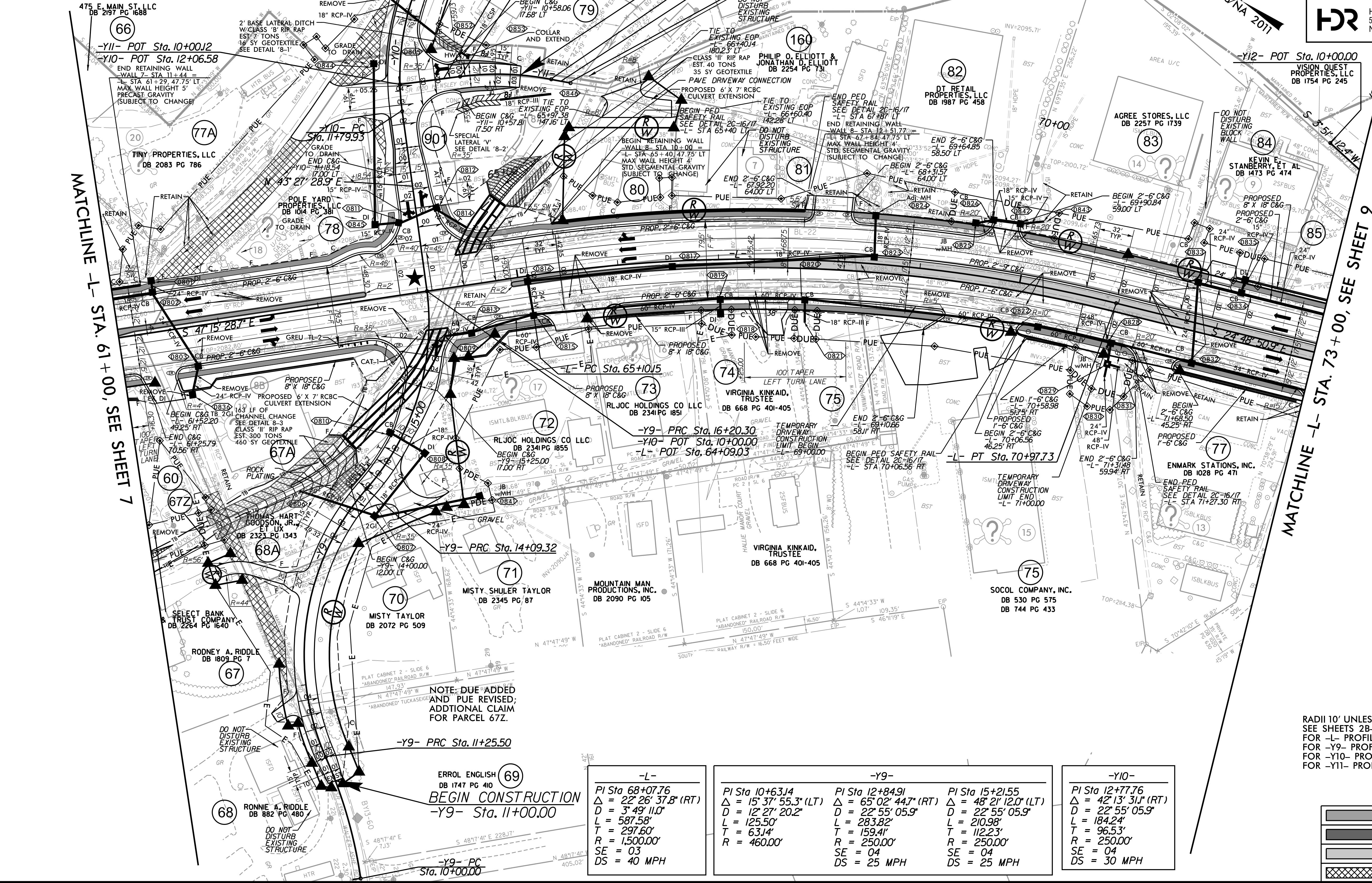
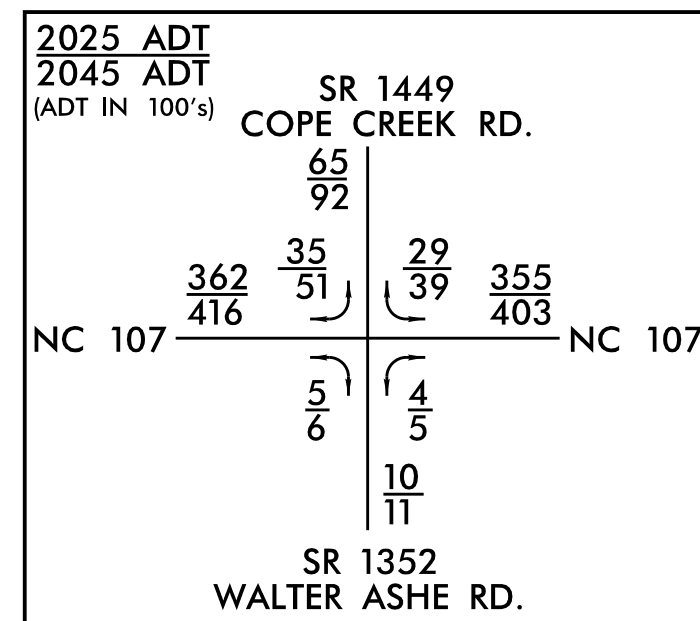
-L-		
<i>PI Sta 39+94.45</i>	<i>PI Sta 45+06.90</i>	<i>PI Sta 49+95.43</i>
$\Delta = 1^{\circ} 37' 14.2" \text{ (LT)}$	$\Delta = 1^{\circ} 34' 59.4" \text{ (RT)}$	$\Delta = 16^{\circ} 45' 24.5" \text{ (LT)}$
$D = 0^{\circ} 34' 22.6"$	$D = 0^{\circ} 34' 22.6"$	$D = 7^{\circ} 09' 43.1"$
$L = 282.85'$	$L = 741.74'$	$L = 233.97'$
$T = 141.44'$	$T = 371.04'$	$T = 117.83'$
$R = 10,000.00'$	$R = 10,000.00'$	$R = 800.00'$
$SE = NC$	$SE = NC$	$SE = 04$
$DS = 40 \text{ MPH}$	$DS = 40 \text{ MPH}$	$DS = 40 \text{ MPH}$

PROJECT REFERENCE NO.		SHEET NO.	
R-5600		6	
RW SHEET NO.		RW-6	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
10/13/2025		10/13/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: R-0116			





	PROP CONC SIDEWALK
	PROP MON ISLAND
	RAISED GRASS MEDIAN



NOTE: RETAINING WALL
-WALL 19- HAS BEEN
ELIMINATED
FROM PLANS

-YII-
11+05.95
8' 34' 21.6" (RT)
20' 27' 46.0"
0.76'
5.78'
280.00'
SEE PLANS
25 MPH

PROJECT REFERENCE NO.		SHEET NO.	
R-5600		8	
RW SHEET NO.		RW-8	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
10/13/2025		10/13/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
			
HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116			

RADII 10' UNLESS OTHERWISE NOTED
SEE SHEETS 2B-8 & 2B-9 FOR DETAIL VIEW
FOR -L- PROFILE, SEE PROFILE SHEET 18
FOR -Y9- PROFILE, SEE PROFILE SHEET 26
FOR -Y10- PROFILE, SEE PROFILE SHEET 26
FOR -Y11- PROFILE, SEE PROFILE SHEET 26

	PROPOSED SIGNAL
	PROP CONC SIDEWALK
	PROP MON ISLAND
	RAISED GRASS MEDIAN
	PAVEMENT REMOVAL

NOTE: RETAINING WALL
-WALL 9- HAS BEEN
ELIMINATED
FROM PLANS

-Y12- PC Sta. 10+84.46

BEGIN CONSTRUCTION

-Y12- Sta. 11+10.00

-Y12- PRC Sta. 11+54.46

92

THE NORTH CAROLINA
DISTRICT COUNCIL
OF THE ASSEMBLIES
OF GOD, INC.
DB 640 PG 203

84

KEVIN E.
STANBERRY, ET AL
DB 1473 PG 474

-Y12- PT Sta. 11+88.47

BEGIN RETAINING WALL
-WALL 10- STA. 10+00.00 =
-L- STA. 74+83.50, 58.99' RT
TIE TO EXISTING BLOCK WALL
MAX WALL HEIGHT 12'
SOIL NAIL
(SUBJECT TO CHANGE)

END TURN-AROUND

-Y12- Sta. 13+15.60

-Y12- POT Sta. 13+59.91

85

VISION QUEST
PROPERTIES, LLC
DB 1754 PG 245

-Y13- PC Sta. 11+19.67

-Y13- POT Sta. 12+03.24

93

GLEN H. HENSLEY, TRUSTEE
DB 2179 PG 1322

END RETAINING WALL
-WALL 26- STA. 11+58.79 =
-DR3- STA. 12+00.00, 11.00' RT
MAX WALL HEIGHT 12'
SOIL NAIL
(SUBJECT TO CHANGE)

94

LARRY BARNES
DB 2175 PG 316

END CONSTRUCTION

-Y13- Sta. 11+08.00

-DR3- PT Sta. 12+79.60

END CONSTRUCTION

-DR3- Sta. 12+25.00

-DR3- PC Sta. 11+78.47

95

PATRICIA COWEN
DB 785 PG 136

BEGIN RETAINING WALL
-WALL 26- STA. 10+00.00 =
-DR3- STA. 10+50.00, 11.00' RT
MAX WALL HEIGHT 12'
SOIL NAIL
(SUBJECT TO CHANGE)

95A

4"IN CONCRETE
PAVED DITCH
GOSI, LLC
DB 2377 PG 187

96

NORLINAZ, LLC
DB 1889 PG 5

-DR3- POT Sta. 10+00.00

-L- POT Sta. 80+00.00

-DR3- PT Sta. 10+78.95

-DR3- PC Sta. 10+40.43

-DR3- POT Sta. 10+00.00

-L- POT Sta. 80+00.00

-DR3- PT Sta. 10+78.95

-DR3- PC Sta. 10+40.43

-DR3- POT Sta. 10+00.00

-L- POT Sta. 80+00.00

-DR3- PT Sta. 10+78.95

-DR3- PC Sta. 10+40.43

-DR3- POT Sta. 10+00.00

-L- POT Sta. 80+00.00

-DR3- PT Sta. 10+78.95

-DR3- PC Sta. 10+40.43

-DR3- POT Sta. 10+00.00

-L- POT Sta. 80+00.00

-DR3- PT Sta. 10+78.95

-DR3- PC Sta. 10+40.43

-DR3- POT Sta. 10+00.00

-L- POT Sta. 80+00.00

-DR3- PT Sta. 10+78.95

-DR3- PC Sta. 10+40.43

-DR3- POT Sta. 10+00.00

-L- POT Sta. 80+00.00

-DR3- PT Sta. 10+78.95

-DR3- PC Sta. 10+40.43

-DR3- POT Sta. 10+00.00

-L- POT Sta. 80+00.00

-DR3- PT Sta. 10+78.95

-DR3- PC Sta. 10+40.43

-DR3- POT Sta. 10+00.00

-L- POT Sta. 80+00.00

-DR3- PT Sta. 10+78.95

-DR3- PC Sta. 10+40.43

-DR3- POT Sta. 10+00.00

-L- POT Sta. 80+00.00

-DR3- PT Sta. 10+78.95

-DR3- PC Sta. 10+40.43

-DR3- POT Sta. 10+00.00

-L- POT Sta. 80+00.00

-DR3- PT Sta. 10+78.95

-DR3- PC Sta. 10+40.43

-DR3- POT Sta. 10+00.00

-L- POT Sta. 80+00.00

-DR3- PT Sta. 10+78.95

-DR3- PC Sta. 10+40.43

-DR3- POT Sta. 10+00.00

-L- POT Sta. 80+00.00

-DR3- PT Sta. 10+78.95

-DR3- PC Sta. 10+40.43

-DR3- POT Sta. 10+00.00

-L- POT Sta. 80+00.00

NAD 83/NA 2011

HENRY TE
DB 1574 PG 757

96

NORLINAZ, LLC
DB 1889 PG 5

97

DALLAS A. STEPHENS
DB 316 PG 70

99

THOMAS J.
CALDWELL
DB 1506 PG 270
DB 1506 PG 275

98

MATHEW JAMES HUNTER
DB 2220 PG 555

91

RALEIGH DOUBLE COUSINS
PROPERTIES, LLC
DB 2106 PG 526

-L- PT Sta. 85+93.06

S 10°18' 03.3" W

TIMOTHY R. QUIRING
DB 112 PG 821
DB 1218 PG 896

89

MARK STEIN, ET AL
DB 2084 PG 200

88

SGI OF WNC LLC
DB 2241 PG 148

87

TRIPLE "C" INVESTMENT, INC.
DB 2098 PG 45
DB 1744 PG 109

93

GLEN H. HENSLEY, TRUSTEE
DB 2179 PG 1322

END RETAINING WALL
-WALL 26- STA. 11+58.79 =
-DR3- STA. 12+00.00, 11.00' RT
MAX WALL HEIGHT 12'
SOIL NAIL
(SUBJECT TO CHANGE)

-Y13- POT Sta. 12+03.24

93

GLEN H. HENSLEY, TRUSTEE
DB 2179 PG 1322

END RETAINING WALL
-WALL 26- STA. 11+58.79 =
-DR3- STA. 12+00.00, 11.00' RT
MAX WALL HEIGHT 12'
SOIL NAIL
(SUBJECT TO CHANGE)

-Y13- PC Sta. 11+19.67

-Y13- POT Sta. 12+03.24

93

GLEN H. HENSLEY, TRUSTEE
DB 2179 PG 1322

END RETAINING WALL
-WALL 26- STA. 11+58.79 =
-DR3- STA. 12+00.00, 11.00' RT
MAX WALL HEIGHT 12'
SOIL NAIL
(SUBJECT TO CHANGE)

-Y13- PC Sta. 11+19.67

-Y13- POT Sta. 12+03.24

93

GLEN H. HENSLEY, TRUSTEE
DB 2179 PG 1322

END RETAINING WALL
-WALL 26- STA. 11+58.79 =
-DR3- STA. 12+00.00, 11.00' RT
MAX WALL HEIGHT 12'
SOIL NAIL
(SUBJECT TO CHANGE)

-Y13- PC Sta. 11+19.67

-Y13- POT Sta. 12+03.24

93

GLEN H. HENSLEY, TRUSTEE
DB 2179 PG 1322

END RETAINING WALL
-WALL 26- STA. 11+58.79 =
-DR3- STA. 12+00.00, 11.00' RT
MAX WALL HEIGHT 12'
SOIL NAIL
(SUBJECT TO CHANGE)

-Y13- PC Sta. 11+19.67

-Y13- POT Sta. 12+03.24

93

GLEN H. HENSLEY, TRUSTEE
DB 2179 PG 1322

END RETAINING WALL
-WALL 26- STA. 11+58.79 =
-DR3- STA. 12+00.00, 11.00' RT
MAX WALL HEIGHT 12'
SOIL NAIL
(SUBJECT TO CHANGE)

-Y13- PC Sta. 11+19.67

-Y13- POT Sta. 12+03.24

93

GLEN H. HENSLEY, TRUSTEE
DB 2179 PG 1322

END RETAINING WALL
-WALL 26- STA. 11+58.79 =
-DR3- STA. 12+00.00, 11.00' RT
MAX WALL HEIGHT 12'
SOIL NAIL
(SUBJECT TO CHANGE)

-Y13- PC Sta. 11+19.67

-Y13- POT Sta. 12+03.24

93

GLEN H. HENSLEY, TRUSTEE
DB 2179 PG 1322

END RETAINING WALL
-WALL 26- STA. 11+58.79 =
-DR3- STA. 12+00.00, 11.00' RT
MAX WALL HEIGHT 12'
SOIL NAIL
(SUBJECT TO CHANGE)

-Y13- PC Sta. 11+19.67

-Y13- POT Sta. 12+03.24

93

GLEN H. HENSLEY, TRUSTEE
DB 2179 PG 1322

END RETAINING WALL
-WALL 26- STA. 11+58.79 =
-DR3- STA. 12+00.00, 11.00' RT
MAX WALL HEIGHT 12'
SOIL NAIL
(SUBJECT TO CHANGE)

-Y13- PC Sta. 11+19.67

-Y13- POT Sta. 12+03.24

93

GLEN H. HENSLEY, TRUSTEE
DB 2179 PG 1322

END RETAINING WALL
-WALL 26- STA. 11+58.79 =
-DR3- STA. 12+00.00, 11.00' RT
MAX WALL HEIGHT 12'
SOIL NAIL
(SUBJECT TO CHANGE)

-Y13- PC Sta. 11+19.67

-Y13- POT Sta. 12+03.24

93

GLEN H. HENSLEY, TRUSTEE
DB 2179 PG 1322

END RETAINING WALL
-WALL 26- STA. 11+58.79 =
-DR3- STA. 12+00.00, 11.00' RT
MAX WALL HEIGHT 12'
SOIL NAIL
(SUBJECT TO CHANGE)

-Y13- PC Sta. 11+19.67

-Y13- POT Sta. 12+03.24

93

GLEN H. HENSLEY, TRUSTEE
DB 2179 PG 1322

END RETAINING WALL
-WALL 26- STA. 11+58.79 =
-DR3- STA. 12+00.00, 11.00' RT
MAX WALL HEIGHT 12'
SOIL NAIL
(SUBJECT TO CHANGE)

-Y13- PC Sta. 11+19.67

-Y13- POT Sta. 12+03.24

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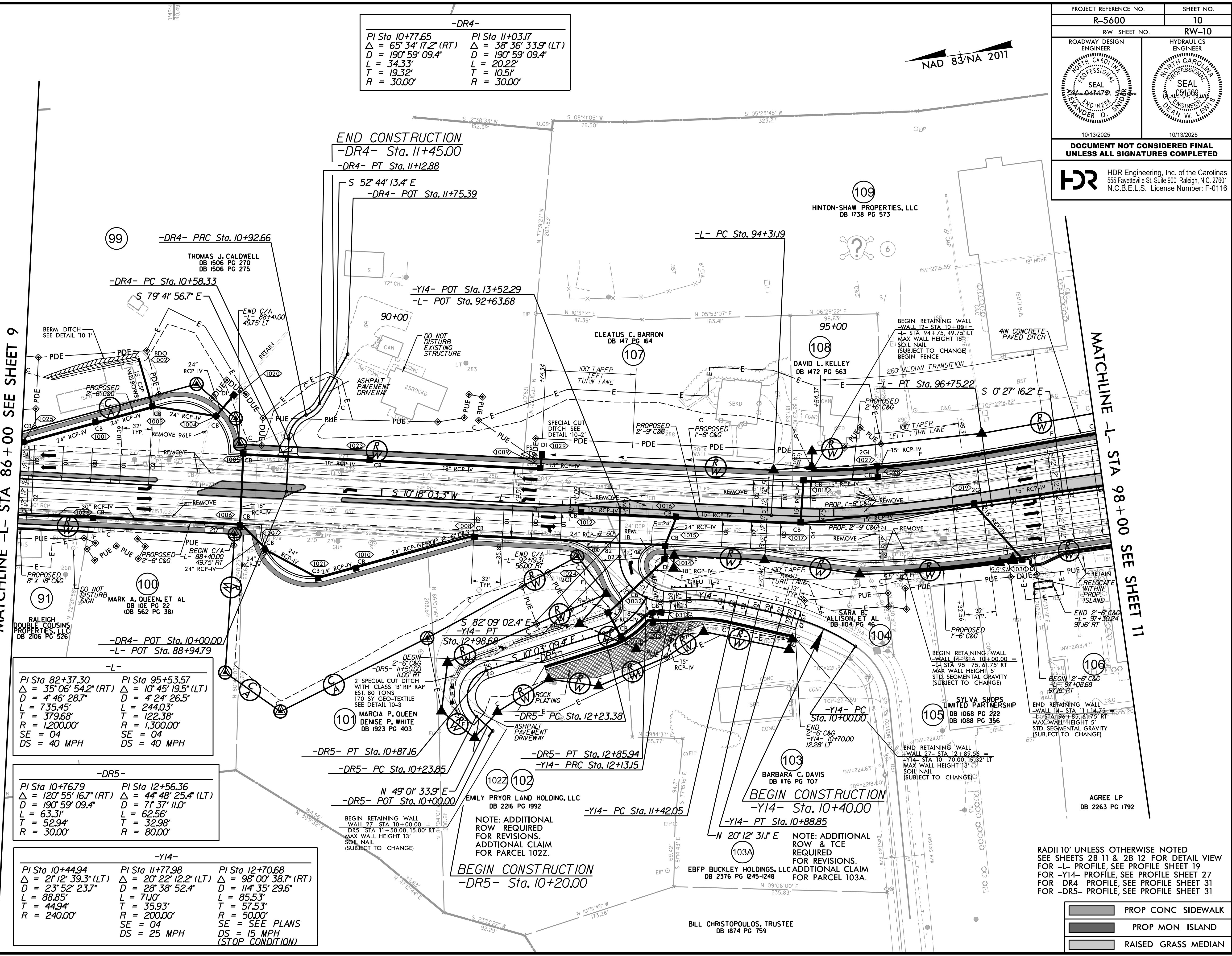
GLEN H. HENSLEY, TRUSTEE
DB 2179 PG 1322

END RET

PLOT DRIVER: NCDOT_1.pdf, color_eng_50.plt
PENTABLE: R5600.pshp.fl.tbl
TIME: 11:28:37 AM
DATE: 10/10/2025
USER: CHANDEN
FILE: NCDOT\NCDOT_1\Western.Div.On-Coll.M_NCDOT_6170_R5600_NC170_US23BUS_V6.0_CAD_BIM_V6.2_Work_In_Progress\R-5600_NCDOT_File_Structure\Roadway\Project\R5600_Rdy_psh-10.dgn

MATCHLINE -L- STA 86+00 SEE SHEET 9

MATCHLINE -L- STA 98+00 SEE SHEET 11



-DR4-	
PI Sta 10+77.65	PI Sta 11+03.17
$\Delta = 65^{\circ} 34' 17.2''$ (RT)	$\Delta = 38^{\circ} 36' 33.9''$ (LT)
$D = 190^{\circ} 59' 09.4''$	$D = 190^{\circ} 59' 09.4''$
$L = 34.33'$	$L = 20.22'$
$T = 19.32'$	$T = 10.51'$
$R = 30.00'$	$R = 30.00'$

-L-	
PI Sta 82+37.30	PI Sta 95+53.57
$\Delta = 35^{\circ} 06' 54.2''$ (RT)	$\Delta = 10^{\circ} 45' 19.5''$ (LT)
$D = 4^{\circ} 46' 28.7''$	$D = 4^{\circ} 24' 26.5''$
$L = 735.45'$	$L = 244.03'$
$T = 379.68'$	$T = 122.38'$
$R = 1,200.00'$	$R = 1,300.00'$
$SE = 04$	$SE = 04$
$DS = 40$ MPH	$DS = 40$ MPH

-DR5-	
PI Sta 10+76.79	PI Sta 12+56.36
$\Delta = 120^{\circ} 55' 16.7''$ (RT)	$\Delta = 44^{\circ} 48' 25.4''$ (LT)
$D = 190^{\circ} 59' 09.4''$	$D = 71^{\circ} 37' 11.0''$
$L = 63.31'$	$L = 62.56'$
$T = 52.94'$	$T = 32.98'$
$R = 30.00'$	$R = 80.00'$

-Y14-		
PI Sta 10+44.94	PI Sta 11+77.98	PI Sta 12+70.68
$\Delta = 21^{\circ} 12' 39.3''$ (LT)	$\Delta = 20^{\circ} 22' 12.2''$ (LT)	$\Delta = 98^{\circ} 00' 38.7''$ (RT)
$D = 23^{\circ} 52' 23.7''$	$D = 28^{\circ} 38' 52.4''$	$D = 114^{\circ} 35' 29.6''$
$L = 88.85'$	$L = 71.0'$	$L = 85.53'$
$T = 44.94'$	$T = 35.93'$	$T = 57.53'$
$R = 240.00'$	$R = 200.00'$	$R = 50.00'$
	$SE = 04$	$SE = SEE PLANS$
	$DS = 25$ MPH	$DS = 15$ MPH (STOP CONDITION)

BEGIN CONSTRUCTION
-DR5- Sta. 10+20.00

BEGIN CONSTRUCTION
-Y14- Sta. 10+40.00

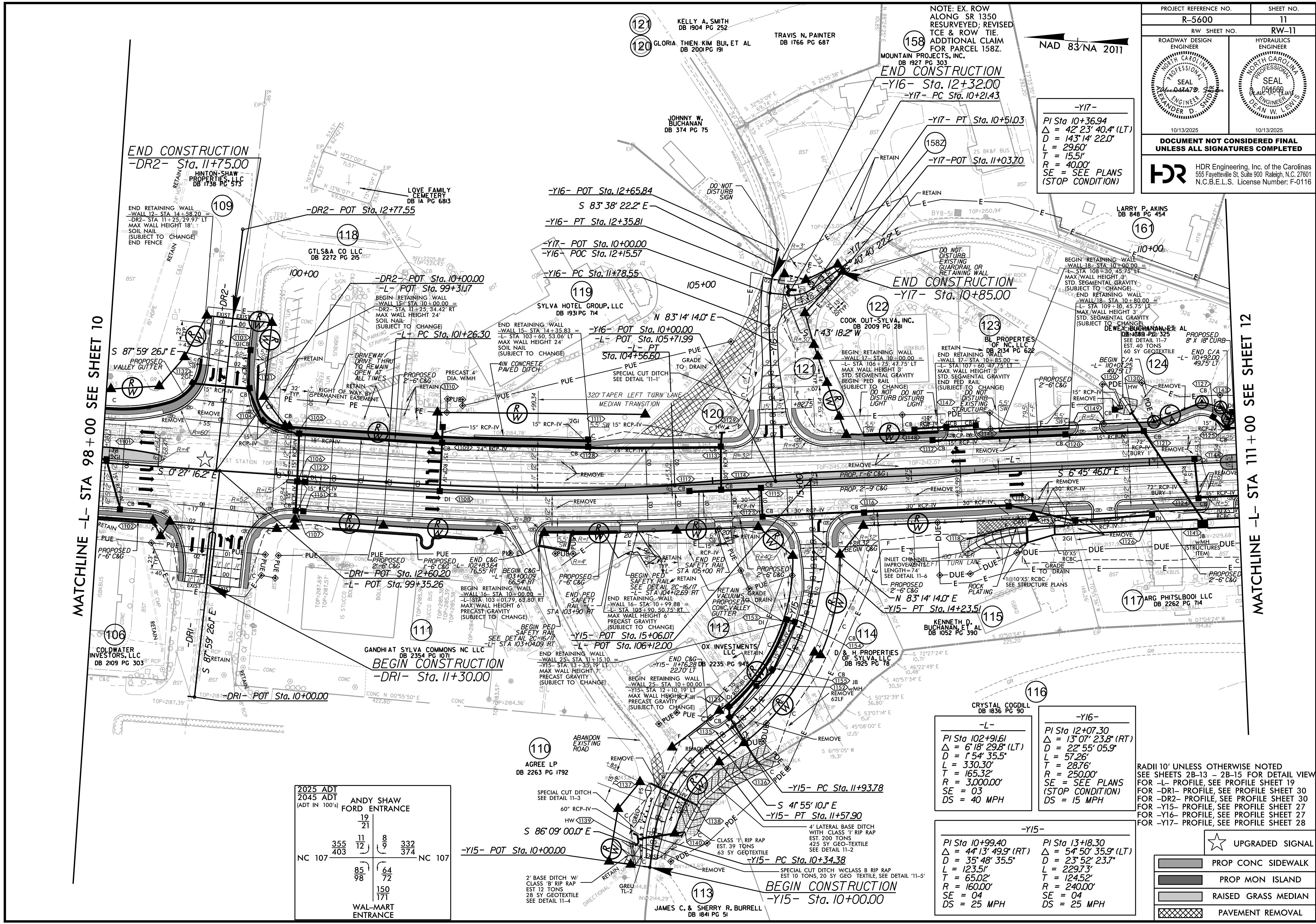
RADII 10' UNLESS OTHERWISE NOTED
SEE SHEETS 2B-11 & 2B-12 FOR DETAIL VIEW
FOR -L- PROFILE, SEE PROFILE SHEET 19
FOR -Y14- PROFILE, SEE PROFILE SHEET 27
FOR -DR4- PROFILE, SEE PROFILE SHEET 31
FOR -DR5- PROFILE, SEE PROFILE SHEET 31

- PROP CONC SIDEWALK
- PROP MON ISLAND
- RAISED GRASS MEDIAN

PROJECT REFERENCE NO. R-5600		SHEET NO. 10	
RW SHEET NO. RW-10		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-01116			

MATCHLINE -L- STA 98+00 SEE SHEET 10

MATCHLINE -L- STA 111+00 SEE SHEET 12



2025 ADT
2045 ADT
(ADT IN 100's)

ANDY SHAW
FORD ENTRANCE

19
21

355 11 8 332
403 12 9 374

NC 107 NC 107

85 64
98 72

150
171

WAL-MART ENTRANCE

-L-

PI Sta 102+91.61
 $\Delta = 6^{\circ}18'29.8"$ (LT)
 $D = 1^{\circ}54'35.5"$
 $L = 330.30'$
 $T = 165.32'$
 $R = 3,000.00'$
 $SE = 03$
 $DS = 40 \text{ MPH}$

-Y16-

PI Sta. 12+07.30
 $\Delta = 13^{\circ} 07' 23.8''$ (RT)
 $D = 22^{\circ} 55' 05.9''$
 $L = 57.26'$
 $T = 28.76'$
 $R = 250.00'$
SE = SEE PLANS
(STOP CONDITION)
DS = 15 MPH

-YI

PI Sta 10+99.40
 $\Delta = 44^{\circ}13'49.9''$ (RT)
 $D = 35^{\circ}48'35.5''$
 $L = 123.51'$
 $T = 65.02'$
 $R = 160.00'$
 $SE = 04$
 $DS = 25$ MPH

PI Sta 13+18.30
 $\Delta = 54^\circ 50' 35.9" (LT)$
 $D = 23^\circ 52' 23.7"$
 $L = 229.73'$
 $T = 124.52'$
 $R = 240.00'$
 $SE = 04$
 $DS = 25 \text{ MPH}$

RADII 10' UNLESS OTHERWISE NOTED
SEE SHEETS 2B-13 - 2B-15 FOR DETAIL VIEW
FOR -L- PROFILE, SEE PROFILE SHEET 19
FOR -DR1- PROFILE, SEE PROFILE SHEET 30
FOR -DR2- PROFILE, SEE PROFILE SHEET 30
FOR -Y15- PROFILE, SEE PROFILE SHEET 27
FOR -Y16- PROFILE, SEE PROFILE SHEET 27
FOR -Y17- PROFILE, SEE PROFILE SHEET 28

★ UPGRADED SIGNAL

	PROP CONC SIDEWALK
	PROP MON ISLAND
	RAISED GRASS MEDIAN
	PAVEMENT REMOVAL



RADII 10' UNLESS OTHERWISE NOTED SEE SHEET 28-18 FOR DETAIL VIEW FOR -L- PROFILE, SEE PROFILE SHEET 20 FOR -Y21- PROFILE, SEE PROFILE SHEET 29 FOR -Y22- PROFILE, SEE PROFILE SHEET 29	
	UPGRADED SIGNAL
	PROP CONC SIDEWALK
	PROP MON ISLAND
	RAISED GRASS MEDIAN