

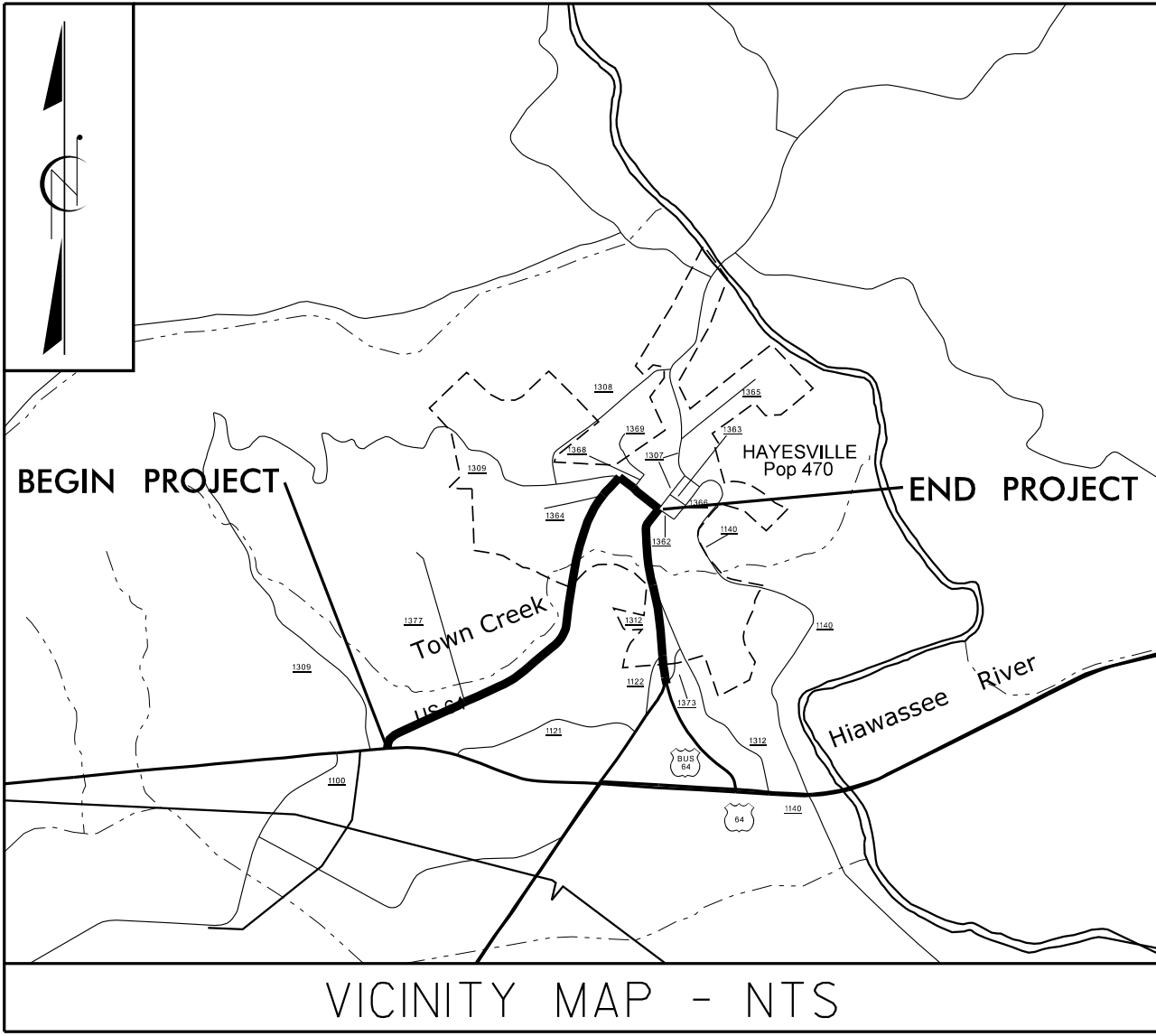
08/22/23

V&M PROJECT #31333-01
TRANSPORTATION\31333-01\RDYV\PROJECT\BUNC222TSH.DGN

PROJECT: R-5863

CONTRACT: C204836

See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols



VICINITY MAP - NTS

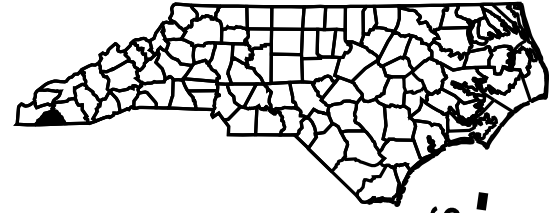
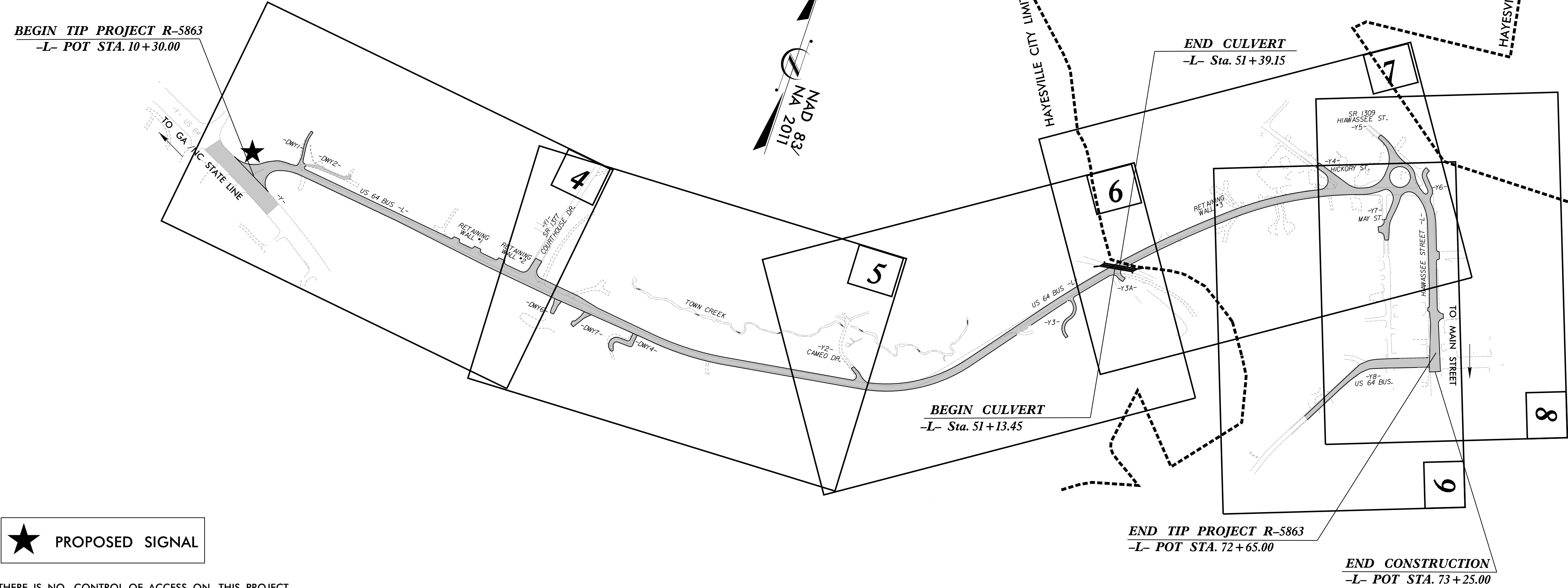
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CLAY COUNTY

LOCATION: UPGRADE US 64 BUSINESS FROM US 64
TO SR 1307 (MAIN STREET)

TYPE OF WORK: GRADING, DRAINAGE, PAVING,
RETAINING WALL, SIGNALS & STRUCTURE

BEGIN TIP PROJECT R-5863
-L- POT STA. 10 + 30.00



HAYESVILLE CITY LIMITS

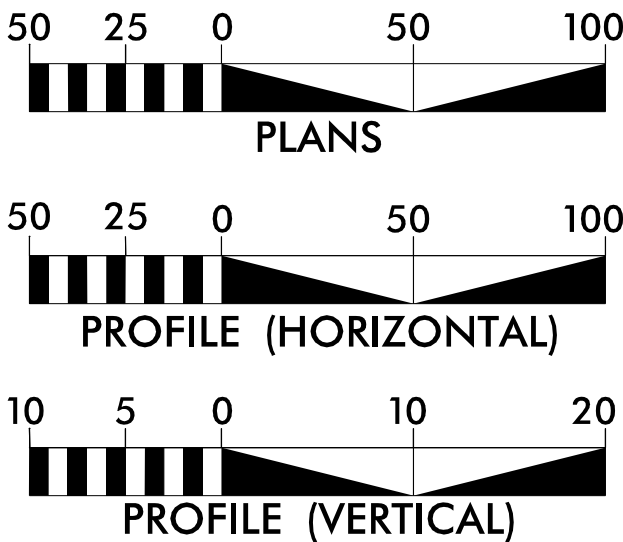
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5863	1	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
47516.1.1	N/A	PE	
47516.2.1	N/A	RW	
47516.2.2	N/A	UTILITIES	
47516.3.1	N/A	CONST.	

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

★ PROPOSED SIGNAL

THERE IS NO CONTROL OF ACCESS ON THIS PROJECT.

GRAPHIC SCALES



DESIGN DATA

ADT 2025 = 2433
ADT 2045 = 2453
T = 6%
V = 40 MPH
*TTST = 5% DUAL = 1%
FUNCT. CLASS =
MAJOR COLLECTOR
DESIGN SPEED 40 MPH (RURAL)
DESIGN SPEED 20 MPH (URBAN)
SUBREGIONAL CLASSIFICATION

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R-5863 = 1.176 MI
LENGTH OF STRUCTURE TIP PROJECT R-5863 = 0.005 MI
TOTAL LENGTH OF TIP PROJECT R-5863 = 1.181 MI

NCDOT CONTACT: JEANETTE WHITE, PE
DIVISION 14

Prepared in the Office of:
Johnson, Mirmiran, & Thompson Inc.
4700 Falls of Neuse Rd, Suite 100,
Raleigh, NC, 27609
License No: C-3097

WE Design (per Titleview) ...
1222 West Franklin Road
Raleigh, NC 27606
(919) 851-9877
NC License E-4377

FOR THE NORTH CAROLINA DIVISION OF HIGHWAYS
2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: MAY 16, 2019
BRETT ABERNATHY, PE, PLS
PROJECT ENGINEER

LETTING DATE: SEPTEMBER 16, 2025
JOHN LANSFORD, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

DocuSigned by:

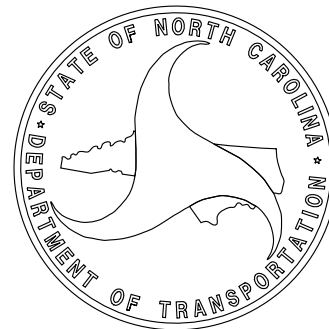
BRETT ABERNATHY (202404101440)
SIGNATURE:

ROADWAY DESIGN ENGINEER

Signed by:

JOHN C. LANSFORD (20240811175488)
SIGNATURE:

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA



5/14/99

7/24/2025 8:55:57 AM
User: jhansen
I:\scott\hansen\108663.psh.1A.dgn

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A-1 THRU 2A-7	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2B-1 THRU 2B-2	ROUNDAABOUT DETAILS
2C-1 THRU 2C-2	PIPE INSTALLATION DETAILS
2C-3	CONCRETE SIDEWALK DETAIL
2C-4 THRU 2C-5	CURB RAMP DETAILS
2C-6 THRU 2C-9	GUARDRAIL PLACEMENT DETAILS
2C-10	GUARDRAIL INSTALLATION DETAIL
2D-1	DITCH DETAILS
3B-1	GUARDRAIL SUMMARY SHEET
3B-2	EARTHWORK & PAVEMENT REMOVAL SUMMARIES
3D-1 THRU 3D-5	DRAINAGE SUMMARY SHEETS
3G-1	GEOTECHNICAL SUMMARIES
3P-1	PARCEL INDEX SHEET
4 THRU 14	PLAN AND PROFILE SHEETS
RW01 THRU RW09	SURVEY CONTROL SHEETS
TMP-1 THRU TMP-15	TRANSPORTATION MANAGEMENT PLANS
PMP-1 THRU PMP-8	PAVEMENT MARKING PLANS
EC-1 THRU EC-15	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-13	SIGNING PLANS
SIG-1 THRU SIG-9	SIGNAL PLANS
UC-1 THRU UC-14	UTILITY CONSTRUCTION PLANS
UO-1 THRU UO-9	UTILITY BY OTHERS PLANS
X-0	CROSS-SECTION SUMMARY SHEET
X-1A THRU X-1B	CROSS-SECTION VOLUME SHEETS
X-2 THRU X-73	CROSS-SECTIONS
C-1 THRU C-8	CULVERT PLANS
W-1 THRU W-7	RETAINING WALL PLANS

GENERAL NOTES:	2024 SPECIFICATIONS EFFECTIVE: 01-16-2024 REVISED:
GRADING AND SURFACING OR RESURFACING AND WIDENING:	THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.
CLEARING:	CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD 11.
SUPERELEVATION:	ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.
SHOULDER CONSTRUCTION:	ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01
SIDE ROADS:	THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.
BERM DITCHES:	BERM DITCHES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 240.01 AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
SUBSURFACE DRAINS:	SUBSURFACE DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.02 AT LOCATIONS AS DIRECTED BY THE ENGINEER.
DRIVEWAYS:	DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 3 FOOT RADII OR RADII AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
STREET TURNOUT:	STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADII NOTED ON PLANS.
GUARDRAIL:	THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.
TEMPORARY SHORING:	SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104-7
UTILITIES:	UTILITY OWNERS ON THIS PROJECT ARE CLAY COUNTY WATER AND SEWER DISTRICT, BLUE RIDGE MOUNTAIN EMC, FRONTIER, & WINDSTREAM ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.
RIGHT-OF-WAY MARKERS:	ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.
CURB RAMPS:	CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. CONSTRUCT ALL CURB RAMPS ACCORDANCE WITH STD 848.06

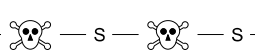
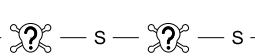
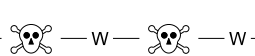
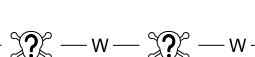
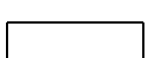
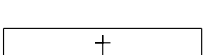
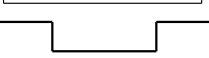
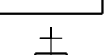
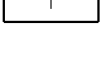
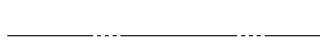
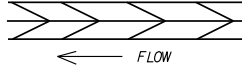
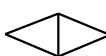
2024 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch -N. C. Department of Transportation - Raleigh, N. C., Dated January, 2024 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.02	Method of Clearing - Method 11
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
225.06	Method of Grading Sight Distance at Intersections
240.01	Guide for Berm Ditch Construction
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation (Use Detail in Lieu of Standard)
310.10	Driveway Pipe Construction
DIVISION 5- SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction-High Side of Superelevated Curve-Method I
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
654.01	Pavement Repairs
DIVISION 8 - INCIDENTALS	
815.02	Subsurface Drains
838.01	Concrete Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew
838.11	Brick Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew
838.80	Precast Endwalls - 12" thru 72" Pipe 90 Skew
840.00	Concrete Base Pad for Drainage Structures
840.01	Brick Catch Basin - 12" thru 54" Pipe
840.02	Concrete Catch Basin - 12" thru 54" Pipe
840.03	Frame, Grates and Hood - for Use on Standard Catch Basin
840.04	Concrete Open Throat Catch Basin - 12" thru 48" Pipe
840.05	Brick Open Throat Catch Basin - 12" thru 48" Pipe
840.14	Concrete Drop Inlets
840.15	Brick Drop Inlets
840.16	Drop Inlet Frame and Grates
840.25	Anchorage for Frames
840.29	Frames and Narrow Slot Flat Grates
840.31	Concrete Junction Box - 12" thru 66" Pipe
840.32	Brick Junction Box - 12" thru 66" Pipe
840.34	Traffic Bearing Junction Box - for Use with Pipes 42" and Under
840.35	Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates
840.45	Precast Drainage Structure
840.46	Traffic Bearing Precast Drainage Structure
840.54	Manhole Frame and Cover
840.66	Drainage Structure Steps
846.01	Concrete Curb, Gutter and Curb & Gutter
848.01	Concrete Sidewalk (Use Detail in Lieu of Standard)
848.02	Driveway Turnout - Radius Type
848.04	Street Turnout
848.06	Curb Ramps (Use Detail in Lieu of Standards for Sheets 9 and 10 of 13)
850.01	Concrete Paved Ditches
852.01	Concrete Islands
852.04	Method for Placement of Drop Inlets in Grassed Median - Using 1'-6" Curb and Gutter
852.06	Method for Placement of Drop Inlets in Concrete Islands
862.01	Guardrail Placement (Use Details in Lieu of Standards for Sheets 4,6, 12 and 14 of 15)
862.02	Guardrail Installation (Use Detail in Lieu of Standard for Sheet 5 of 9)
866.01	Chain Link Fence - 4', 5' and 6' High Fence
866.06	Chain Link Fence on Retaining Wall
876.01	Rip Rap in Channels
876.02	Guide for Rip Rap at Pipe Outlets
876.04	Drainage Ditches with Class 'B' Rip Rap

PROJECT REFERENCE NO.		SHEET NO.	
R-5863		1A	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER 7/24/2025 10:04:56 AM EDT NORTH CAROLINA PROFESSIONAL SEAL 15435 JOHN C. LAUSFORD			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

EFF. 01-16-2024
REV.

State Line	_____	
County Line	_____	
Township Line	_____	
City Line	_____	
Reservation Line	_____	
Property Line	_____	
Existing Iron Pin (EIP)	_____	
Computed Property Corner	_____	
Existing Concrete Monument (ECM)	_____	
Parcel / Sequence Number	_____	
Existing Fence Line	_____	
Proposed Woven Wire Fence	_____	
Proposed Chain Link Fence	_____	
Proposed Barbed Wire Fence	_____	
Existing Wetland Boundary	_____	
Proposed Wetland Boundary	_____	
Existing Endangered Animal Boundary	_____	
Existing Endangered Plant Boundary	_____	
Existing Historic Property Boundary	_____	
Known Contamination Area: Soil	_____	
Potential Contamination Area: Soil	_____	
Known Contamination Area: Water	_____	
Potential Contamination Area: Water	_____	
Contaminated Site: Known or Potential	_____	
<i>BUILDINGS AND OTHER CULTURE:</i>		
Gas Pump Vent or U/G Tank Cap	_____	
Sign	_____	
Well	_____	
Small Mine	_____	
Foundation	_____	
Area Outline	_____	
Cemetery	_____	
Building	_____	
School	_____	
Church	_____	
Dam	_____	
<i>HYDROLOGY:</i>		
Stream or Body of Water	_____	
Hydro, Pool or Reservoir	_____	
Jurisdictional Stream	_____	
Buffer Zone 1	_____	
Buffer Zone 2	_____	
Flow Arrow	_____	
Disappearing Stream	_____	
Spring	_____	
Wetland	_____	
Proposed Lateral, Tail, Head Ditch	_____	
False Sump	_____	

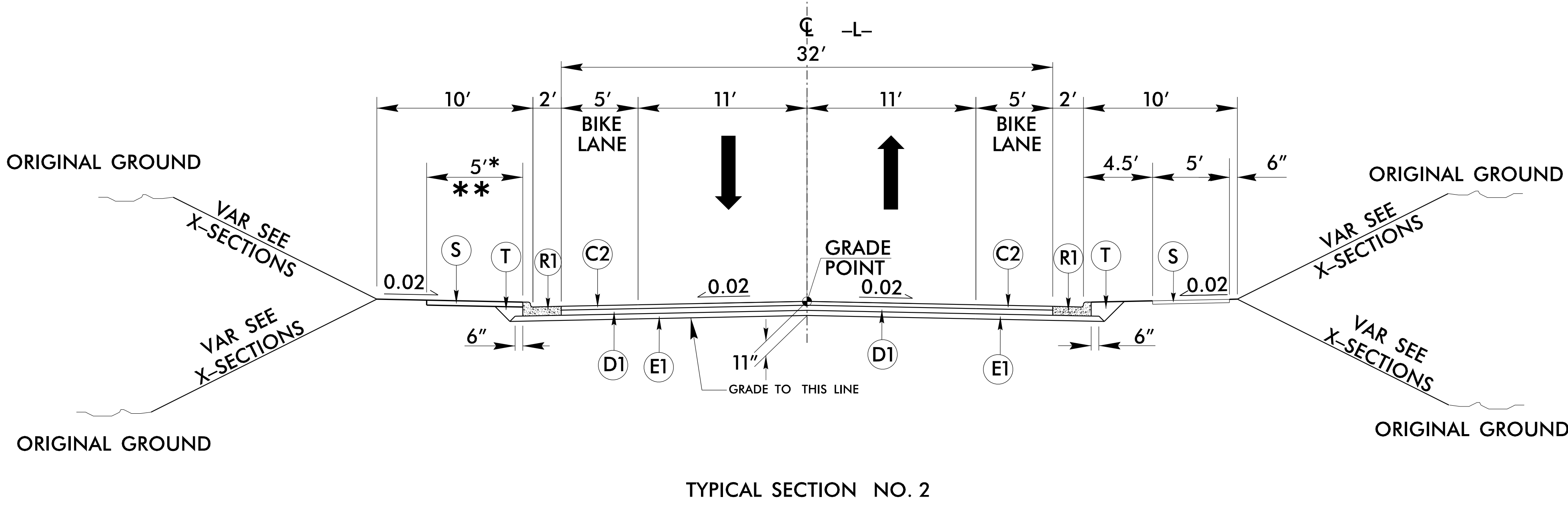
Existing Edge of Pavement		
Existing Curb		
Proposed Slope Stakes Cut		
Proposed Slope Stakes Fill		
Proposed Curb Ramp		
Existing Metal Guardrail		
Proposed Guardrail		
Existing Cable Guiderail		
Proposed Cable Guiderail		
Equality Symbol		
Pavement Removal		
VEGETATION:		
Single Tree		
Single Shrub		
Hedge		

Existing Telephone Pole	
Proposed Telephone Pole	
Telephone Manhole	
Telephone Pedestal	
Telephone Cell Tower	
U/G Telephone Cable Hand Hole	
U/G Telephone Test Hole (SUE - LOS A)*	
U/G Telephone Cable (SUE - LOS B)*	-----T-----
U/G Telephone Cable (SUE - LOS C)*	-----T-----
U/G Telephone Cable (SUE - LOS D)*	-----T-----
U/G Telephone Conduit (SUE - LOS B)*	-----TC-----
U/G Telephone Conduit (SUE - LOS C)*	-----TC-----
U/G Telephone Conduit (SUE - LOS D)*	-----TC-----
U/G Fiber Optics Cable (SUE - LOS B)*	-----TF-----
U/G Fiber Optics Cable (SUE - LOS C)*	-----TF-----
U/G Fiber Optics Cable (SUE - LOS D)*	-----TF-----

Utility Pole _____	
Utility Pole with Base _____	
Utility Located Object _____	
Utility Traffic Signal Box _____	
Utility Unknown U/G Line (SUE - LOS B)* _____	
U/G Tank; Water, Gas, Oil _____	
Underground Storage Tank, Approx. Loc. _____	
A/G Tank; Water, Gas, Oil _____	
Geoenvironmental Boring _____	
Abandoned According to Utility Records _____	
End of Information _____	

5/14/2019

A	12" CONCRETE TRUCK APRON
C1	1½" S9.5C
C2	3" S9.5C
C3	VAR. S9.5C
D1	4" I19.0C
D2	VAR. I19.0C
E1	4" B25.0C
E2	VAR. B25.0C
R1	2'x6" CURB
R2	1'x6" CURB
R3	EXPRES. GUTTER
R4	9" x 18" Curb
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	MILL 1½" DEPTH
V2	MILL 3" DEPTH
W1	WEDGING



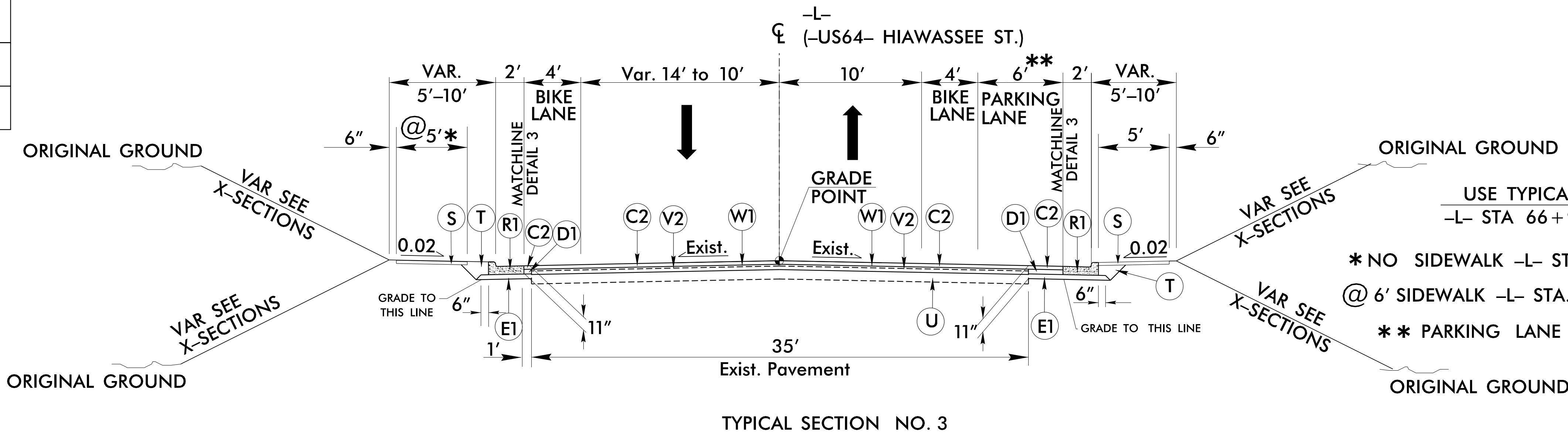
TYPICAL SECTION NO. 2

USE TYPICAL SECTION NO. 2

-L- STA 40+50.00 TO 47+00.00
-L- STA 49+00.00 TO 54+00.00
*-L- STA 62+00.00 TO 63+64.28

TRANSITION TO TS#3
-L- STA. 64+94.20 TO 66+90.00

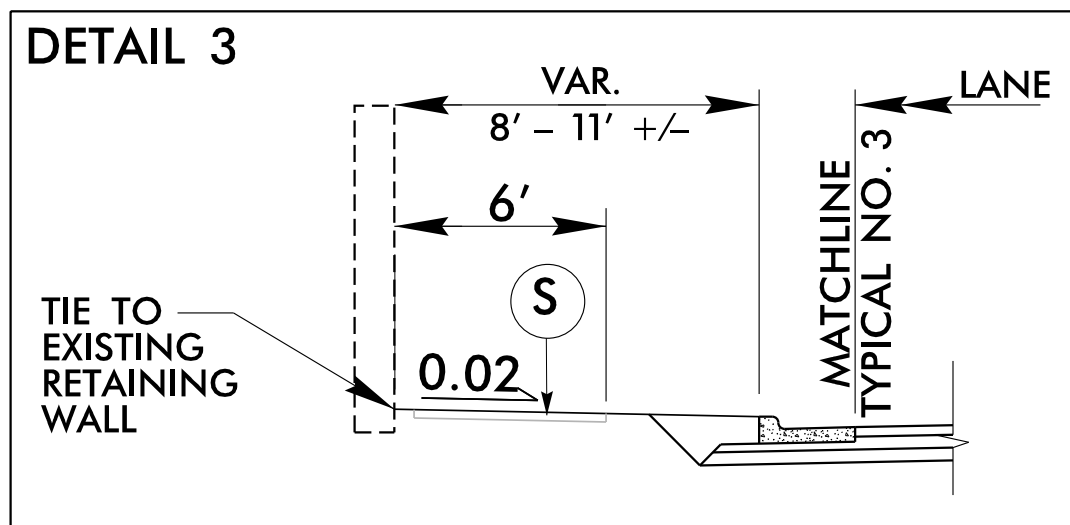
** 6' SIDEWALK -L- STA. 65+87.00 TO 66+90.00 LT



TYPICAL SECTION NO. 3

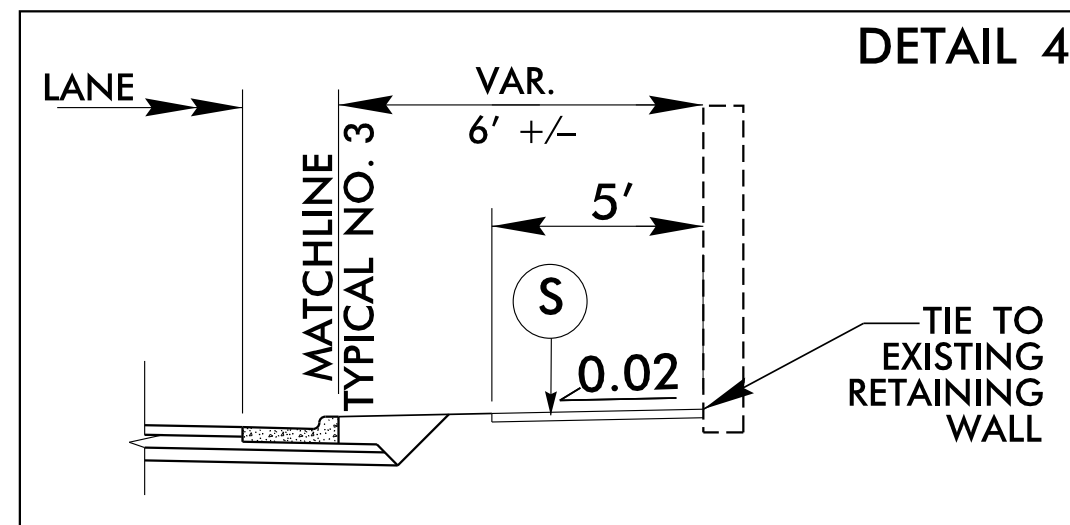
USE TYPICAL SECTION NO. 3
-L- STA 66+90.00 TO 72+65.00

* NO SIDEWALK -L- STA. 71+02.00 TO 72+65.00 LT
@ 6' SIDEWALK -L- STA. 66+90.00 TO 67+75.00 LT
** PARKING LANE ENDS -L- STA. 70+45.00 +/- RT.



DETAIL 3

-L- STA 66+50.00 TO 68+02.37 Lt.

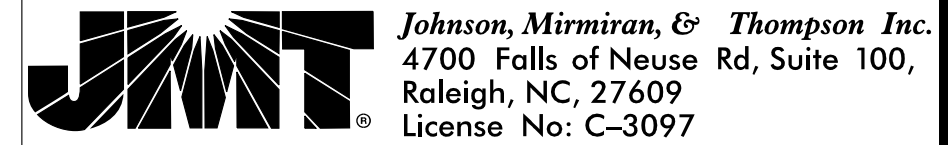


DETAIL 4

-L- STA 70+85.76 TO 71+43.77 Rt.

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

PROJECT REFERENCE NO.	SHEET NO.
R-5863	2A-2
RW SHEET NO.	
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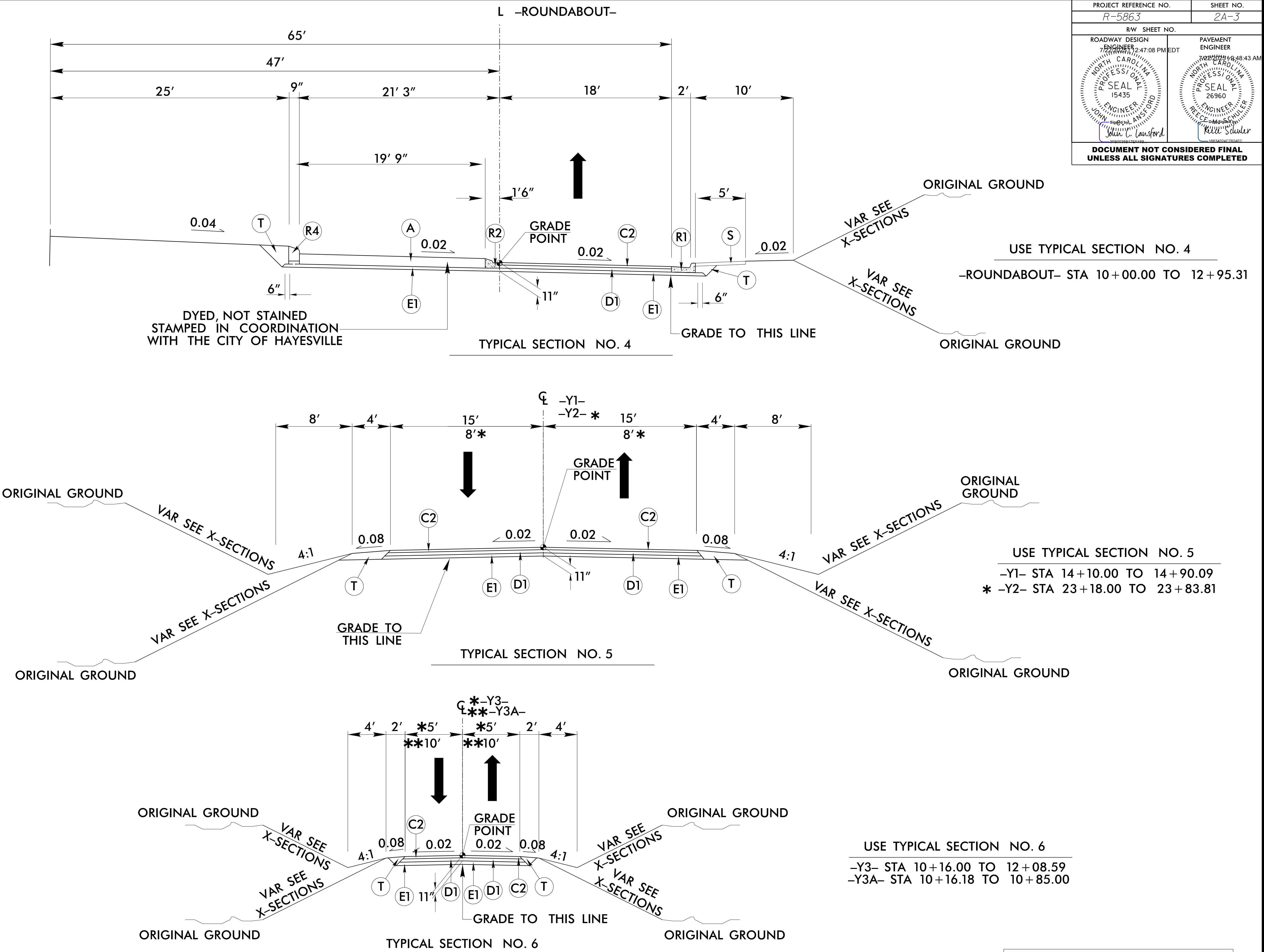


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5/14/99

6/26/2025 5:57:15 AM
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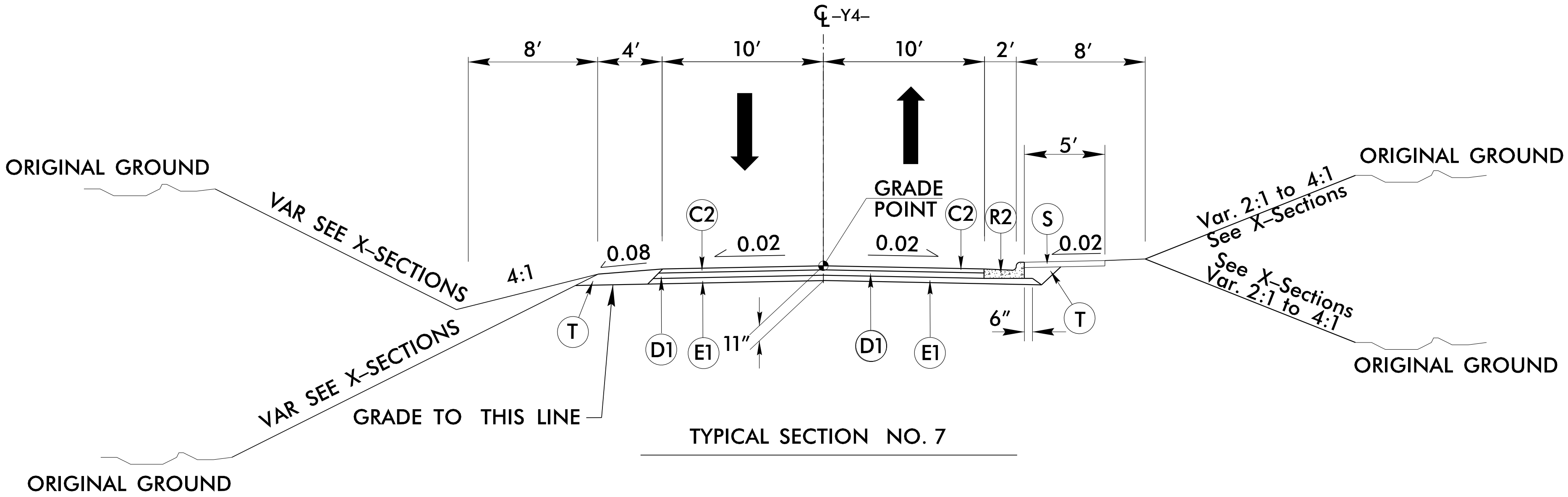
A	12" CONCRETE TRUCK APRON
C1	1½" S9.5C
C2	3" S9.5C
C3	VAR. S9.5C
D1	4" I19.0C
D2	VAR. I19.0C
E1	4" B25.0C
E2	VAR. B25.0C
R1	2'x6" CURB
R2	1'x6" CURB
R3	EXPRES. GUTTER
R4	9" x 18" Curb
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	MILL 1½" DEPTH
V2	MILL 3" DEPTH
W1	WEDGING



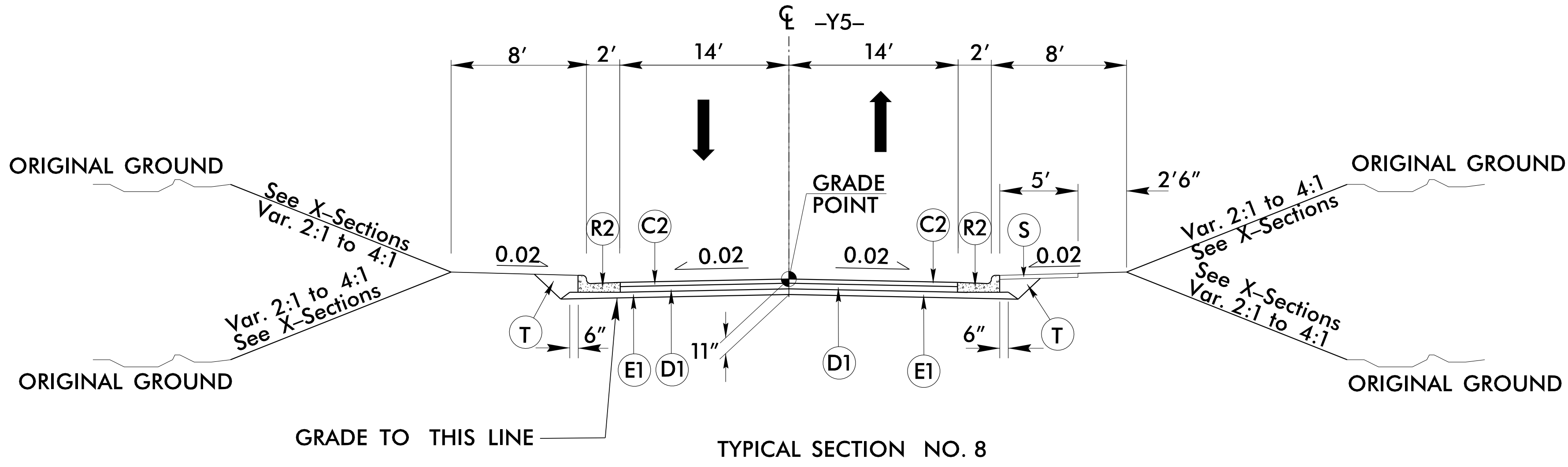
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

5/14/99

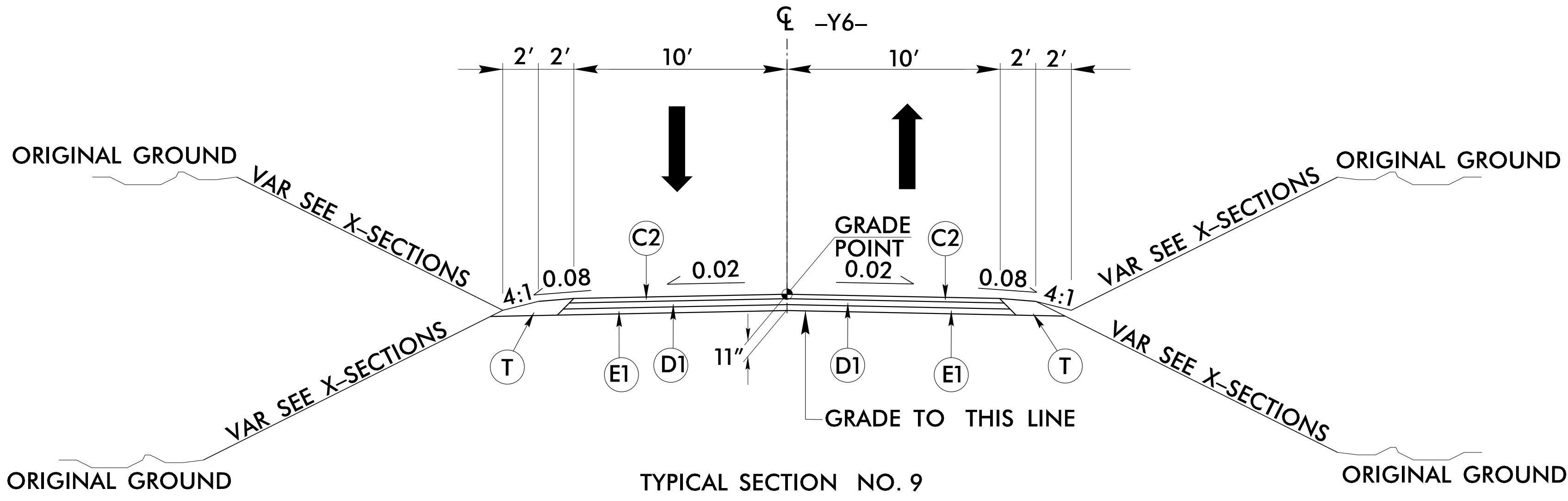
A	12" CONCRETE TRUCK APRON
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C2	3" S9.5C
C3	VAR. S9.5C
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R3	EXPRES. GUTTER
R4	9" x 18" Curb
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	MILL 1½" DEPTH
V2	MILL 3" DEPTH
W1	WEDGING



USE TYPICAL SECTION NO. 7
-Y4- STA 41+35.00 TO 42+98.44



USE TYPICAL SECTION NO. 8
-Y5- STA 10+25.00 TO 11+64.15



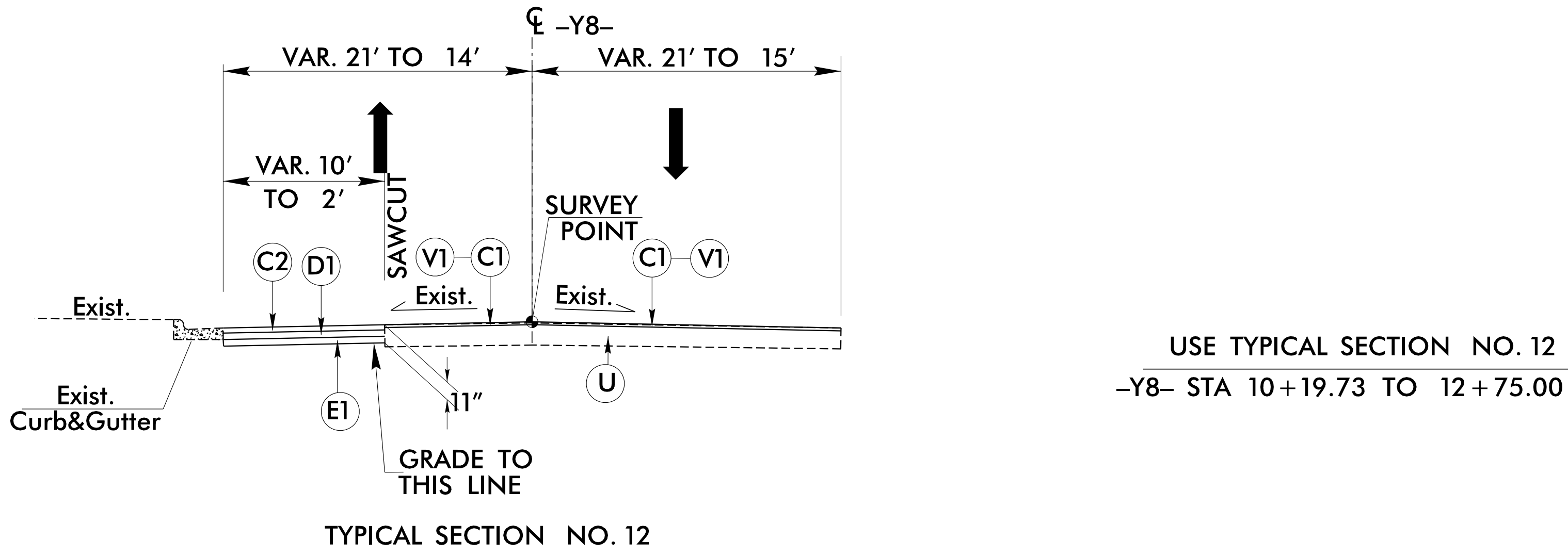
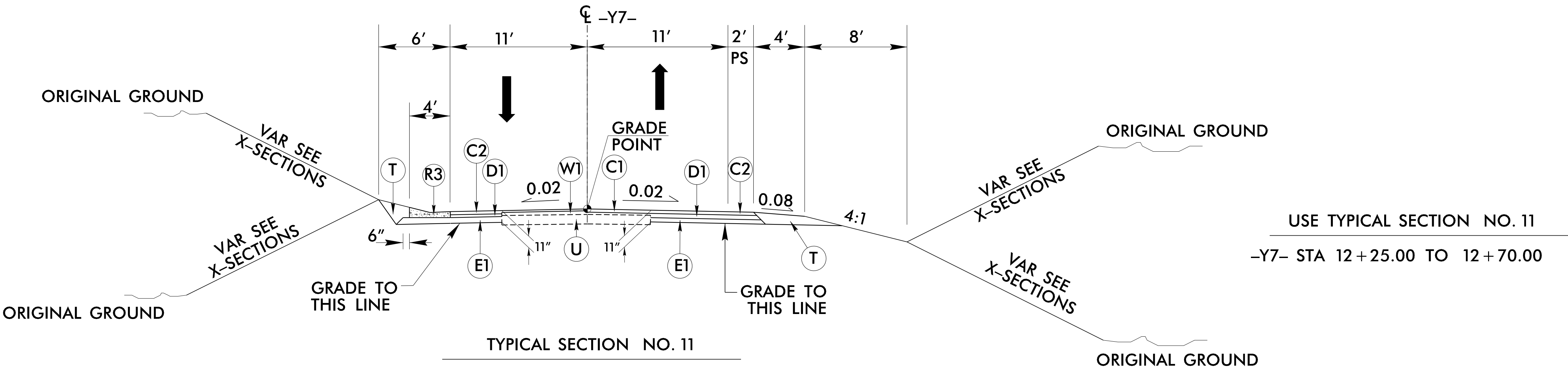
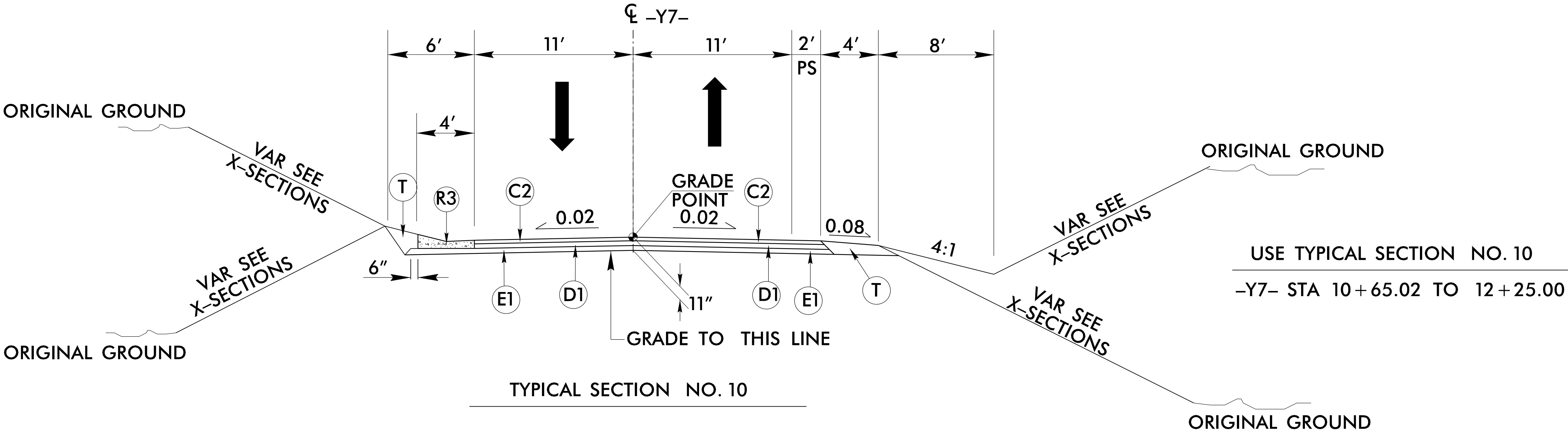
USE TYPICAL SECTION NO. 9
-Y6- STA 10+13.07 TO 11+49.01

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

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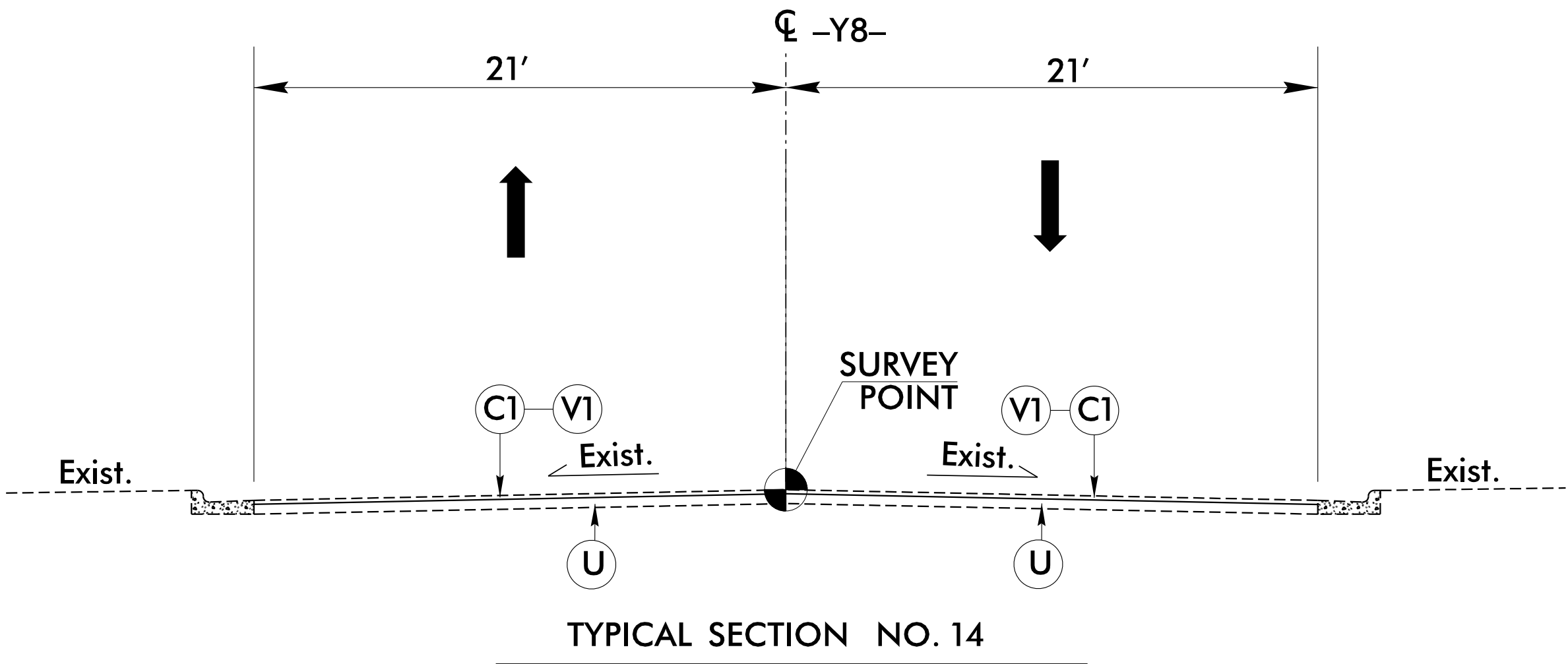
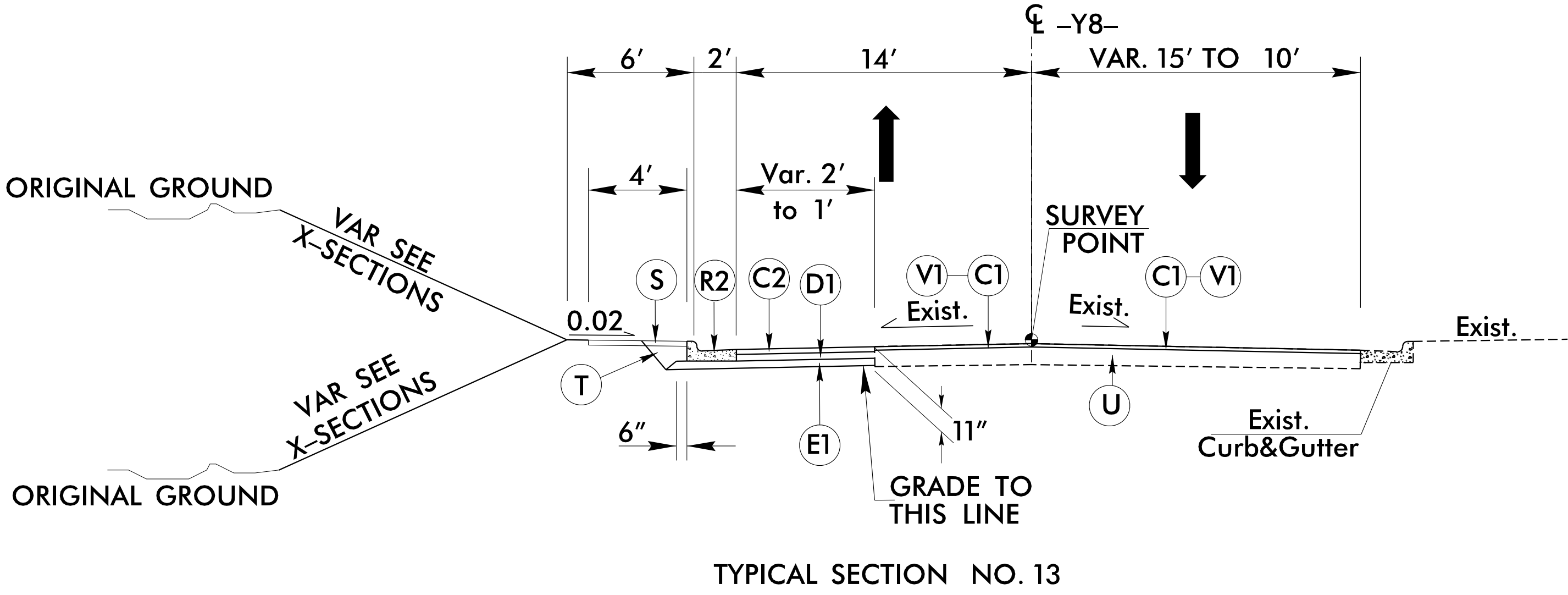
5/14/99

A	12" CONCRETE TRUCK APRON
C1	1½" S9.5C
C2	3" S9.5C
C3	VAR. S9.5C
D1	4" I19.0C
D2	VAR. I19.0C
E1	4" B25.0C
E2	VAR. B25.0C
R1	2'x6" CURB
R2	1'x6" CURB
R3	EXPRES. GUTTER
R4	9" x 18" Curb
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	MILL 1½" DEPTH
V2	MILL 3" DEPTH
W1	WEDGING



NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

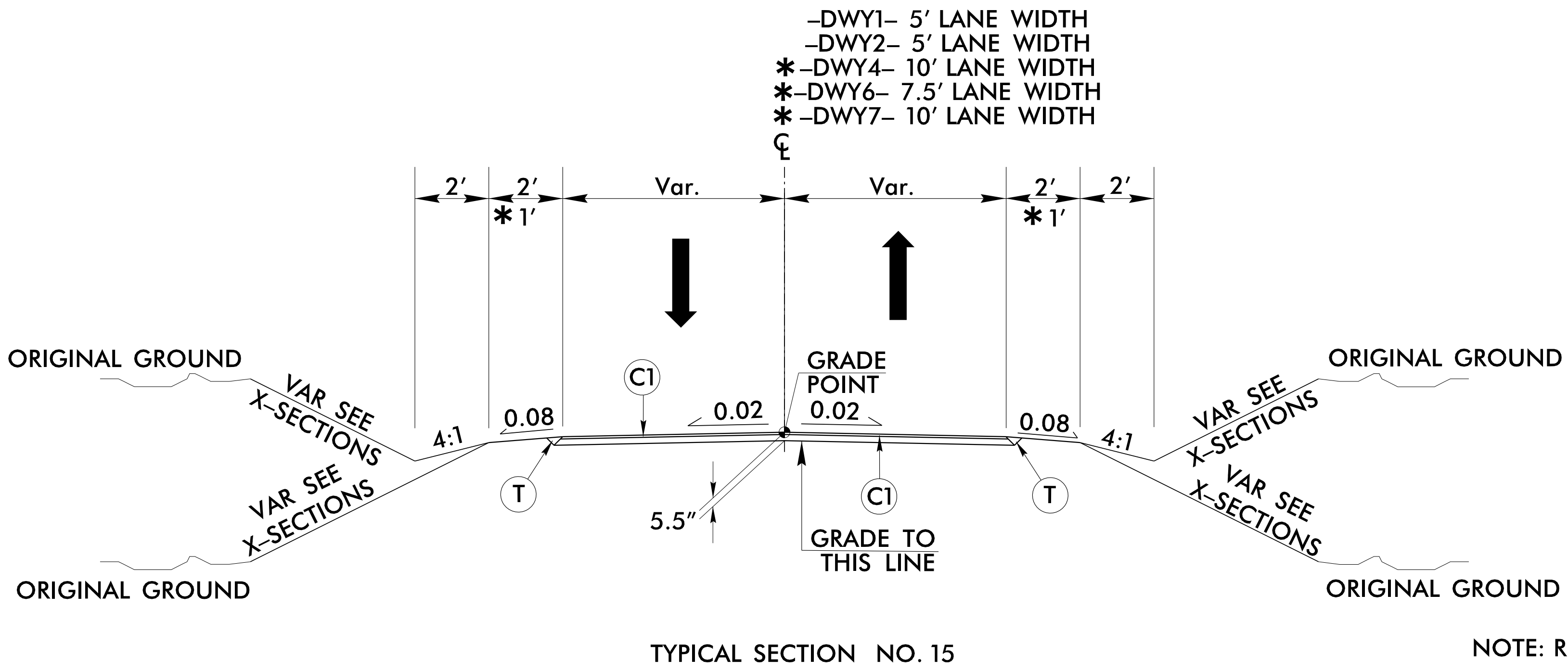
A	12" CONCRETE TRUCK APRON
C1	1½" S9.5C
C2	3" S9.5C
C3	VAR. S9.5C
D1	4" I19.0C
D2	VAR. I19.0C
E1	4" B25.0C
E2	VAR. B25.0C
R1	2'x6" CURB
R2	1'x6" CURB
R3	EXPRES. GUTTER
R4	9" x 18" Curb
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	MILL 1½" DEPTH
V2	MILL 3" DEPTH
W1	WEDGING



NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

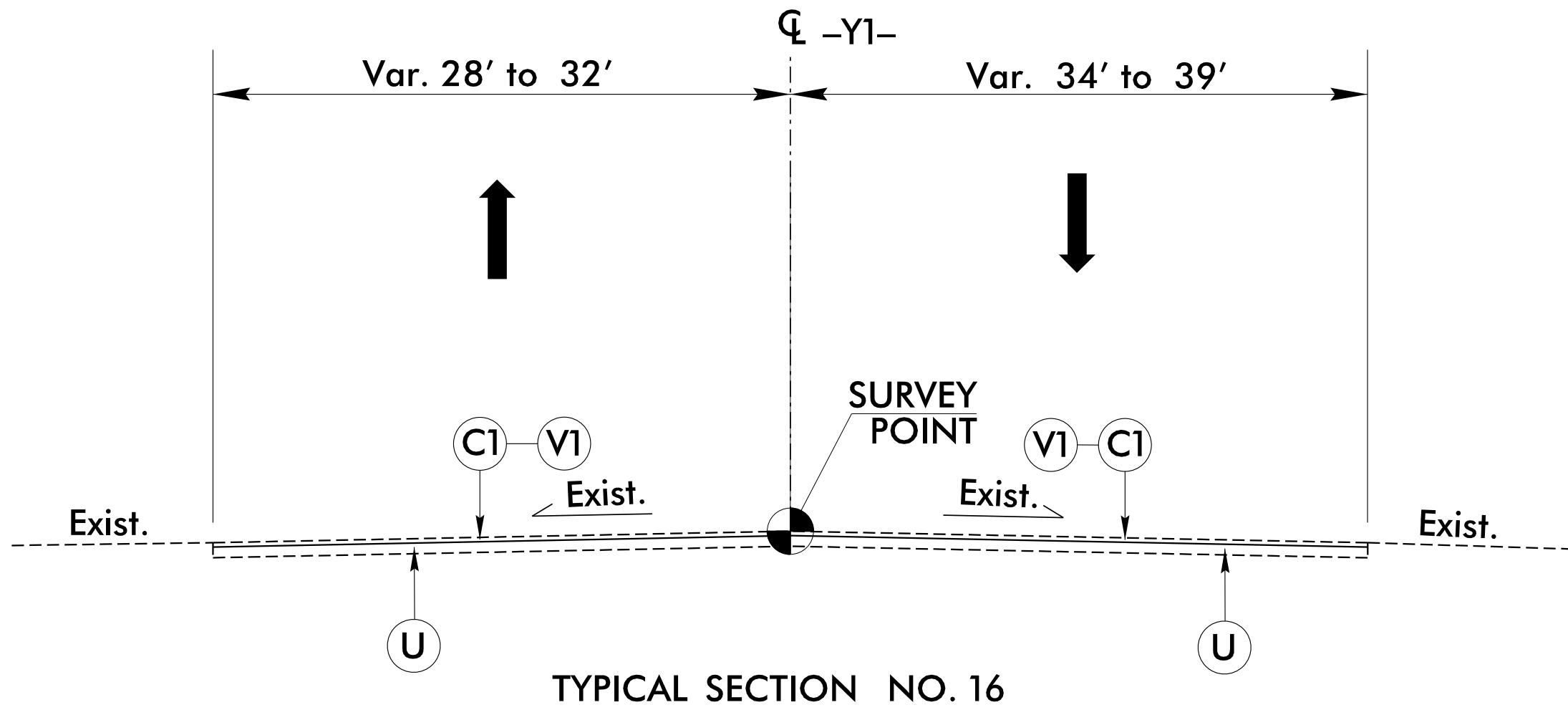
 Johnson, Mirmiran, & Thompson Inc. 4700 Falls of Neuse Rd, Suite 100, Raleigh, NC, 27609 License No: C-3097	PROJECT REFERENCE NO.		SHEET NO.	
	R-5863		2A-6	
	RW SHEET NO.			
ROADWAY DESIGN ENGINEER  JOHN C. Lunsford		PAYMENT ENGINEER  Reece M. Schuler		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED				

A	12" CONCRETE TRUCK APRON
C1	1½" S9.5C
C2	3" S9.5C
C3	VAR. S9.5C
D1	4" I19.0C
D2	VAR. I19.0C
E1	4" B25.0C
E2	VAR. B25.0C
R1	2'x6" CURB
R2	1'x6" CURB
R3	EXPRES. GUTTER
R4	9" x 18" Curb
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	MILL 1½" DEPTH
V2	MILL 3" DEPTH
W1	WEDGING



USE TYPICAL SECTION NO. 15			
-DWY1-	STA 10+00.00	TO	11+63.64
-DWY2-	STA 11+30.00	TO	12+65.24
-DWY4-	STA 10+16.95	TO	11+90.00
-DWY6-	STA 10+41.28	TO	10+90.00
-DWY7-	STA 10+31.11	TO	11+10.75

NOTE: RESURFACE -DWY2- FROM STA. 9+98.50 TO 11+30.00 WITH C1

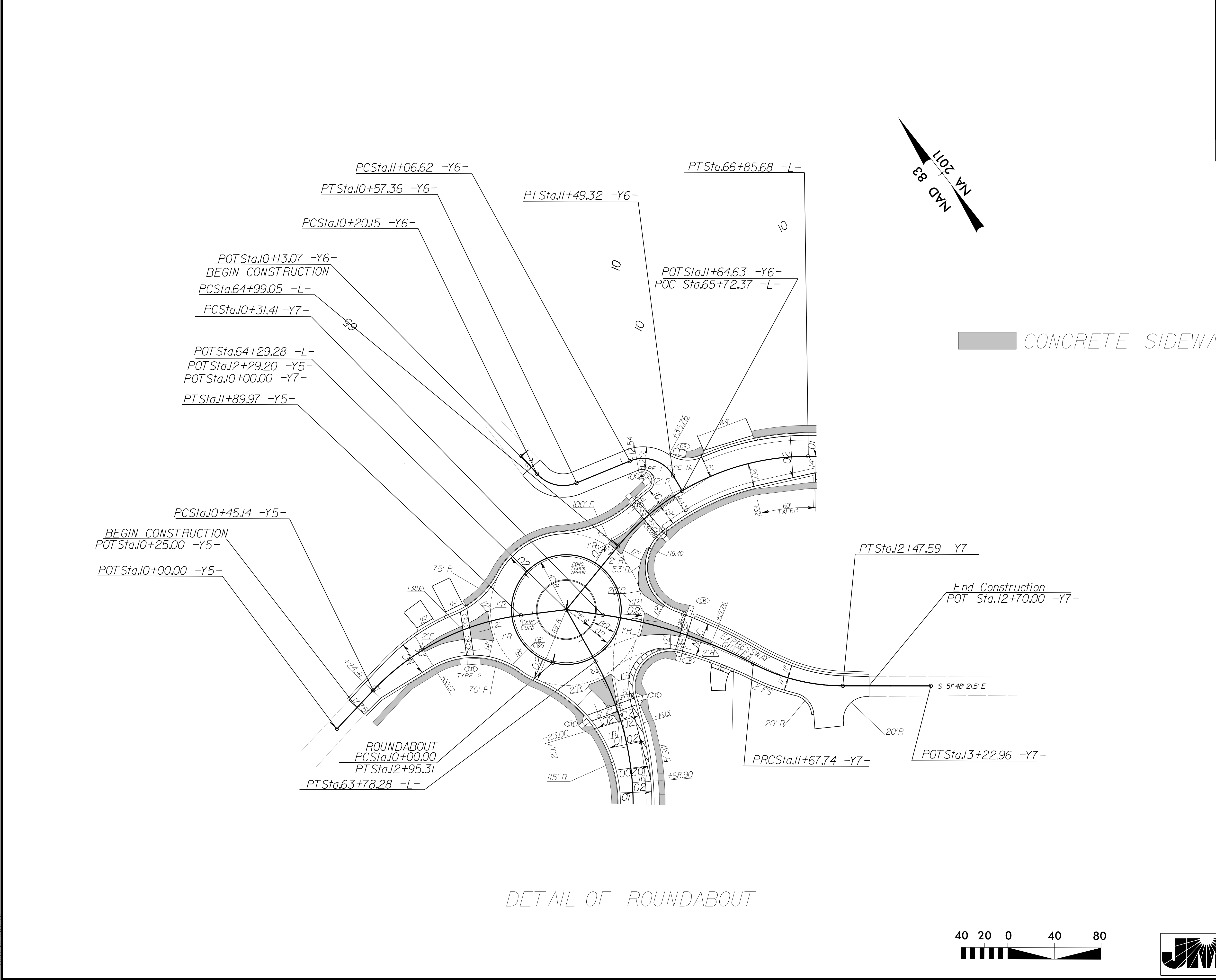


USE TYPICAL SECTION NO. 16
—Y1— STA 10+95.00 TO 16+20.00

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

5/14/99

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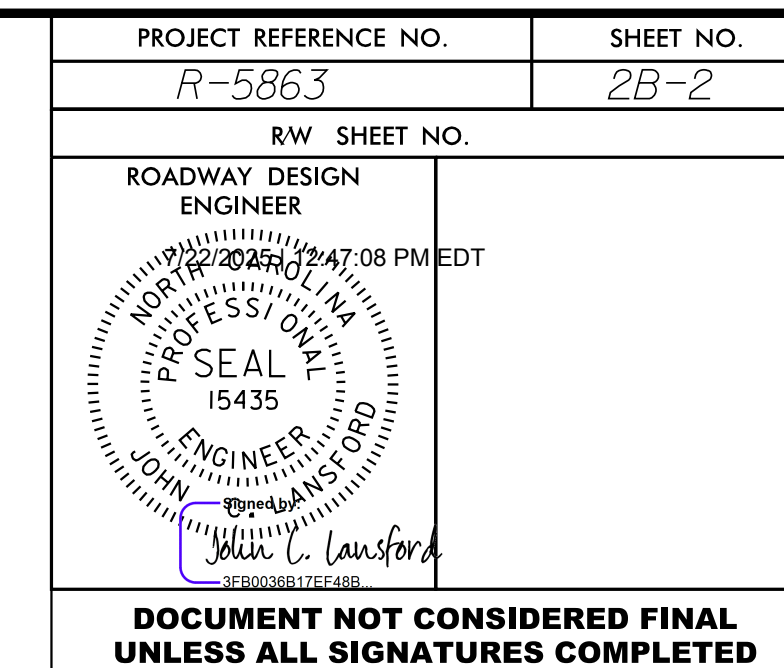


DETAIL OF ROUNDABOUT

PROJECT REFERENCE NO.	SHEET NO.
R-5863	2B-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
22/2026/04/27,08 PM EDT	
PROFESSIONAL SEAL 15435	
JOHN C. LAWSON	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



 CONCRETE SIDEWALK & ISLANDS



No.	Roundabout Station	Offset Distance	Elevation at Inner Circle	Elevation at Outer Circle
1	10+00.00	18'	1881.66'	1881.30'
2	10+10.00	18'	1881.84'	1881.48'
3	10+20.00	18'	1882.03'	1881.67'
4	10+30.00	18'	1882.21'	1881.85'
5	10+40.00	18'	1882.42'	1882.06'
6	10+50.00	18'	1882.64'	1882.28'
7	10+60.00	18'	1882.87'	1882.51'
8	10+70.00	18'	1883.10'	1882.74'
9	10+80.00	18'	1883.33'	1882.97'
10	10+90.00	18'	1883.55'	1883.20'
11	11+00.00	18'	1883.78'	1883.42'
12	11+10.00	18'	1883.97'	1883.61'
13	11+20.00	18'	1884.03'	1883.67'
14	11+30.00	18'	1883.96'	1883.61'
15	11+40.00	18'	1883.75'	1883.39'
16	11+50.00	18'	1883.50'	1883.14'
17	11+60.00	18'	1883.26'	1882.90'
18	11+70.00	18'	1883.01'	1882.65'
19	11+80.00	18'	1882.76'	1882.40'
20	11+90.00	18'	1882.52'	1882.16'
21	12+00.00	18'	1882.27'	1881.91'
22	12+10.00	18'	1882.03'	1881.67'
23	12+20.00	18'	1881.78'	1881.42'
24	12+30.00	18'	1881.58'	1881.22'
25	12+40.00	18'	1881.43'	1881.07'
26	12+50.00	18'	1881.35'	1880.99'
27	12+60.00	18'	1881.32'	1880.96'
28	12+70.00	18'	1881.34'	1880.98'
29	12+80.00	18'	1881.43'	1881.07'
30	12+90.00	18'	1881.57'	1881.21'



**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.: _____

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CONTRACTS STANDARDS AND DEVELOPMENT UNIT	
919-707-6950	FAX 919-250-4119

EE TITLE BLOCK	
IL BY: <u>S.CALHOUN</u>	DATE: <u>7-25-2024</u>
D BY: _____	DATE: _____
B BY: _____	DATE: _____
C BY: _____	DATE: _____

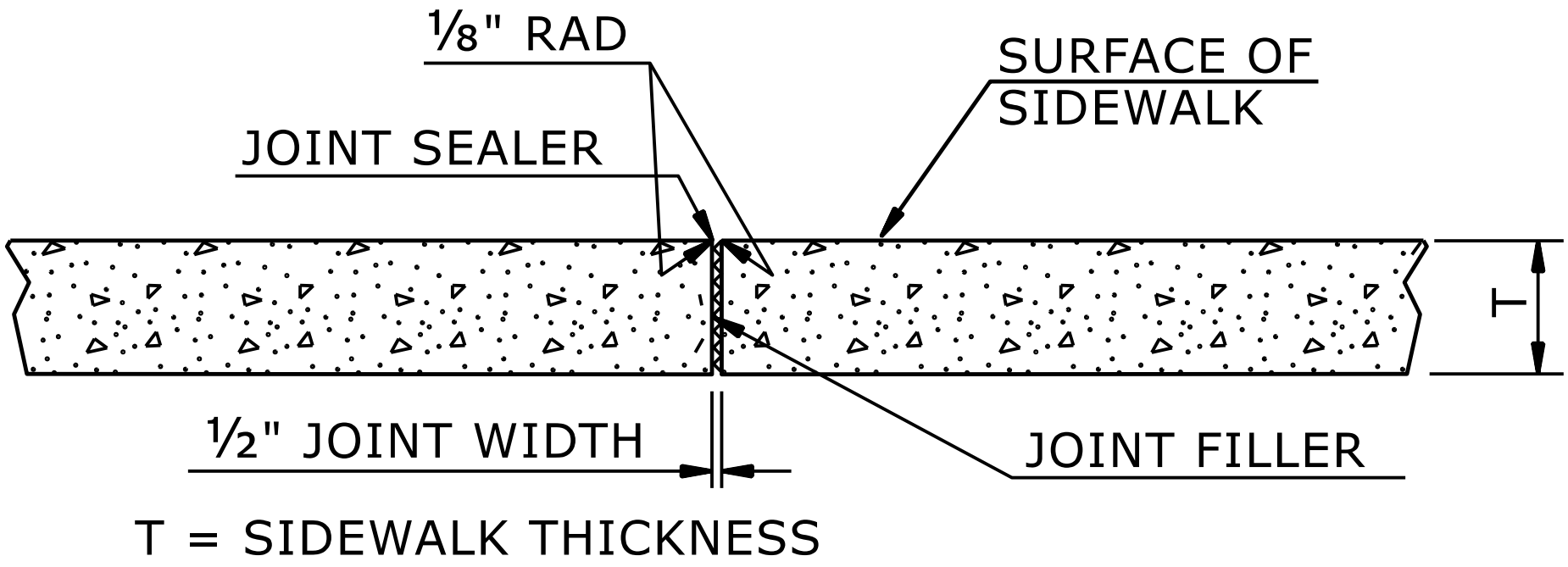
PROJECT REFERENCE NO.	SHEET NO.
R-5863	2C-3

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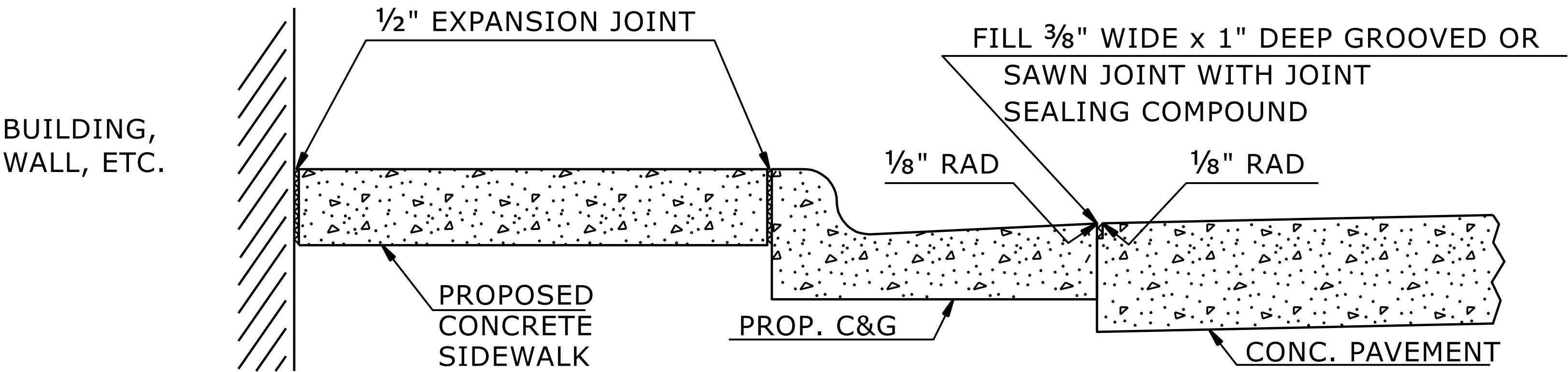
CONSTRUCT STANDARD SIDEWALK 5' WIDE AND 4" THICK UNLESS OTHERWISE DENOTED ON PLANS.

PLACE A GROOVE JOINT 1" DEEP WITH 1/8" RADII IN THE CONCRETE SIDEWALK AT 5' INTERVALS. ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 50' INTERVALS. A 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.

SEE STD. DWG. 848.06 FOR CURB RAMP LOCATION REQUIREMENTS AND CONSTRUCTION GUIDELINES.



TRANSVERSE EXPANSION JOINT
IN SIDEWALK



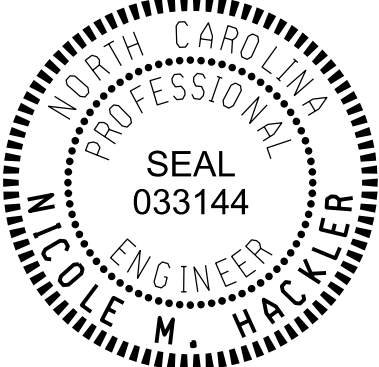
DETAILS SHOWING JOINTS IN CONCRETE SIDEWALK

STATE OF
NORTH CAROLINA
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DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
CONCRETE SIDEWALK

SHEET 1 OF 1
848D01

7/22/2025 | 9:48:04 AM PDT



Signed by:
Nicole M. Hacker
5884323D34164C5

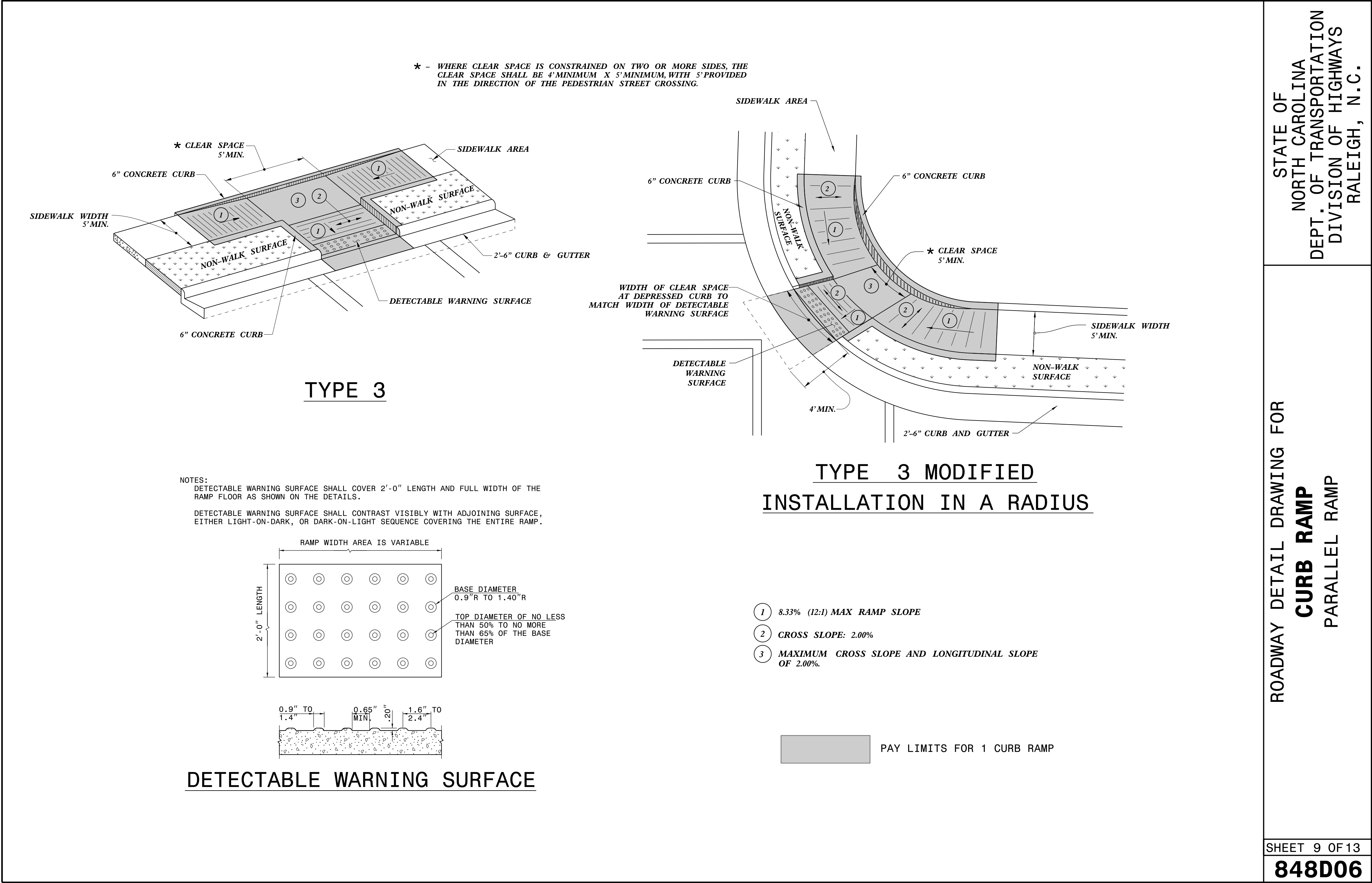
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UNLESS ALL SIGNATURES COMPLETED

**CONTRACTS STANDARDS
AND DEVELOPMENT UNIT**

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SEE TITLE BLOCK

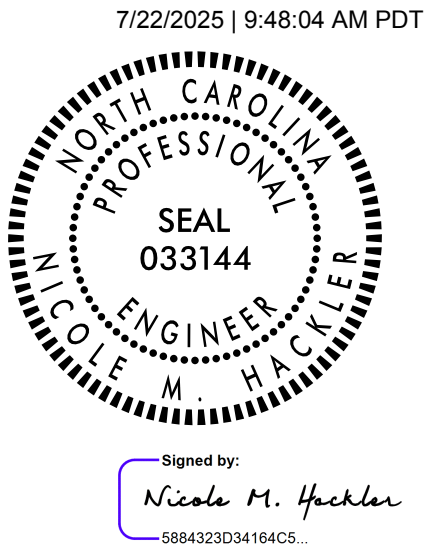
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MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.: DATE:



STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
CURB RAMP
PARALLEL RAMP

SHEET 9 OF 13
848D06

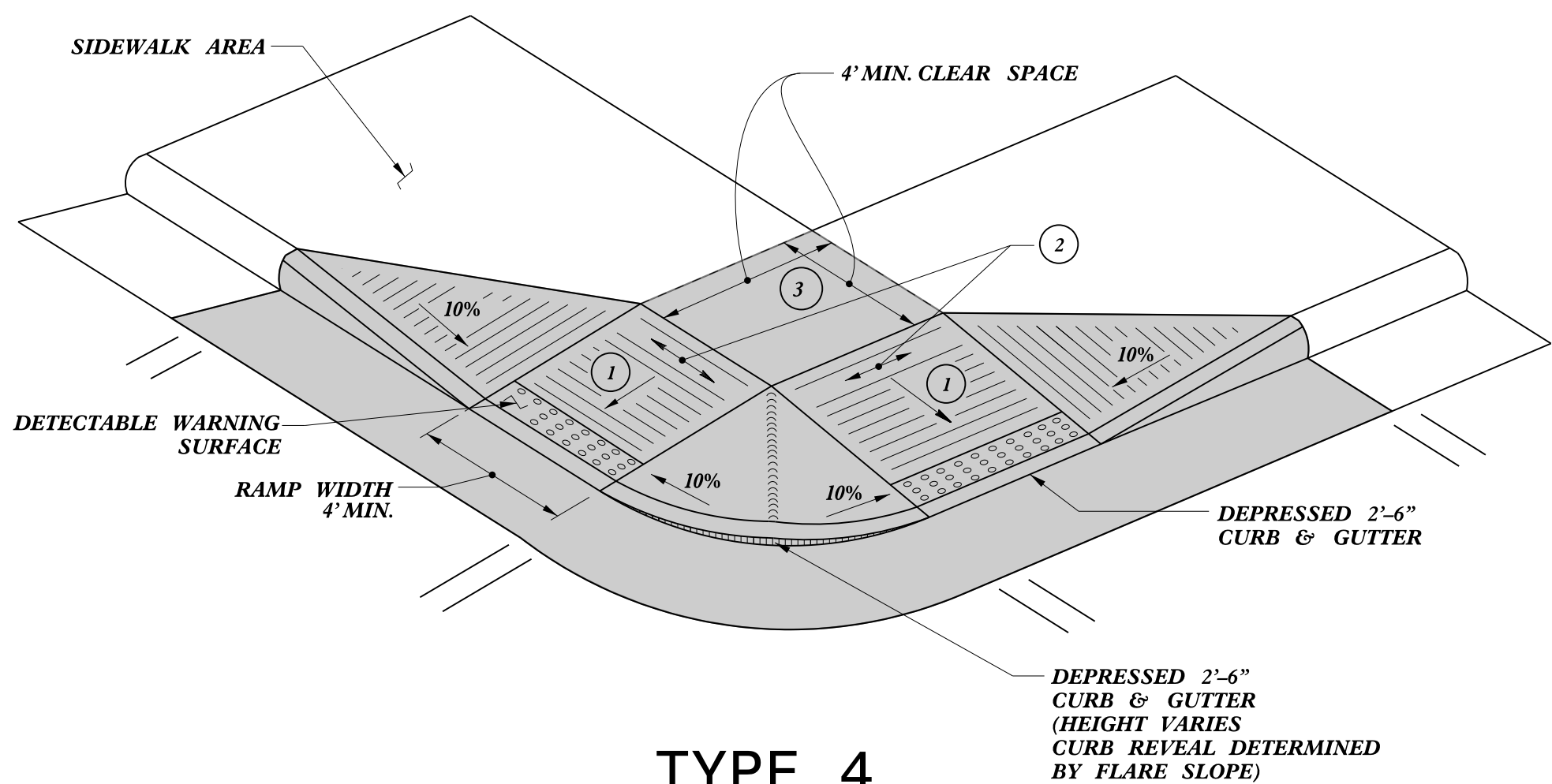


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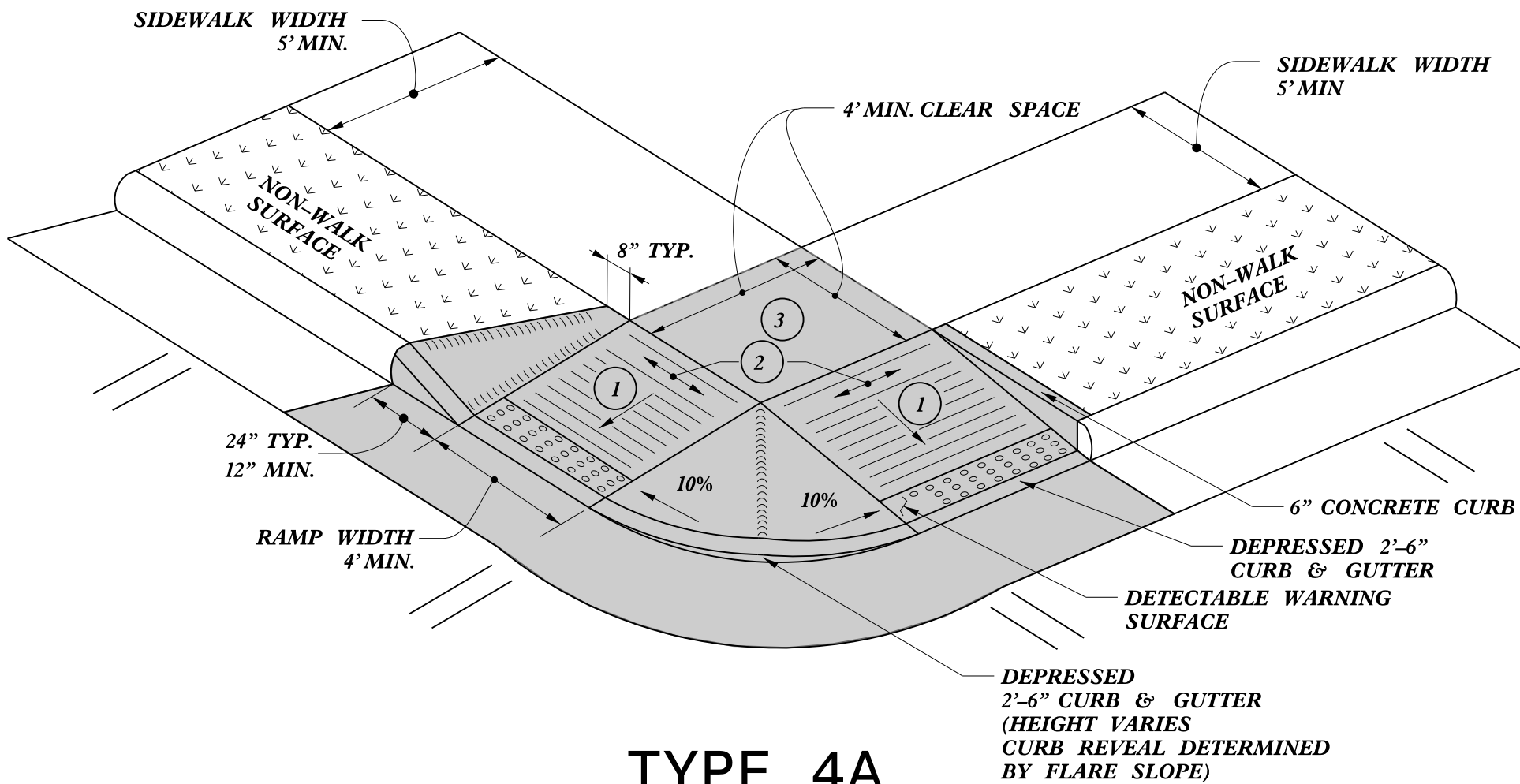
CONTRACTS STANDARDS
AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

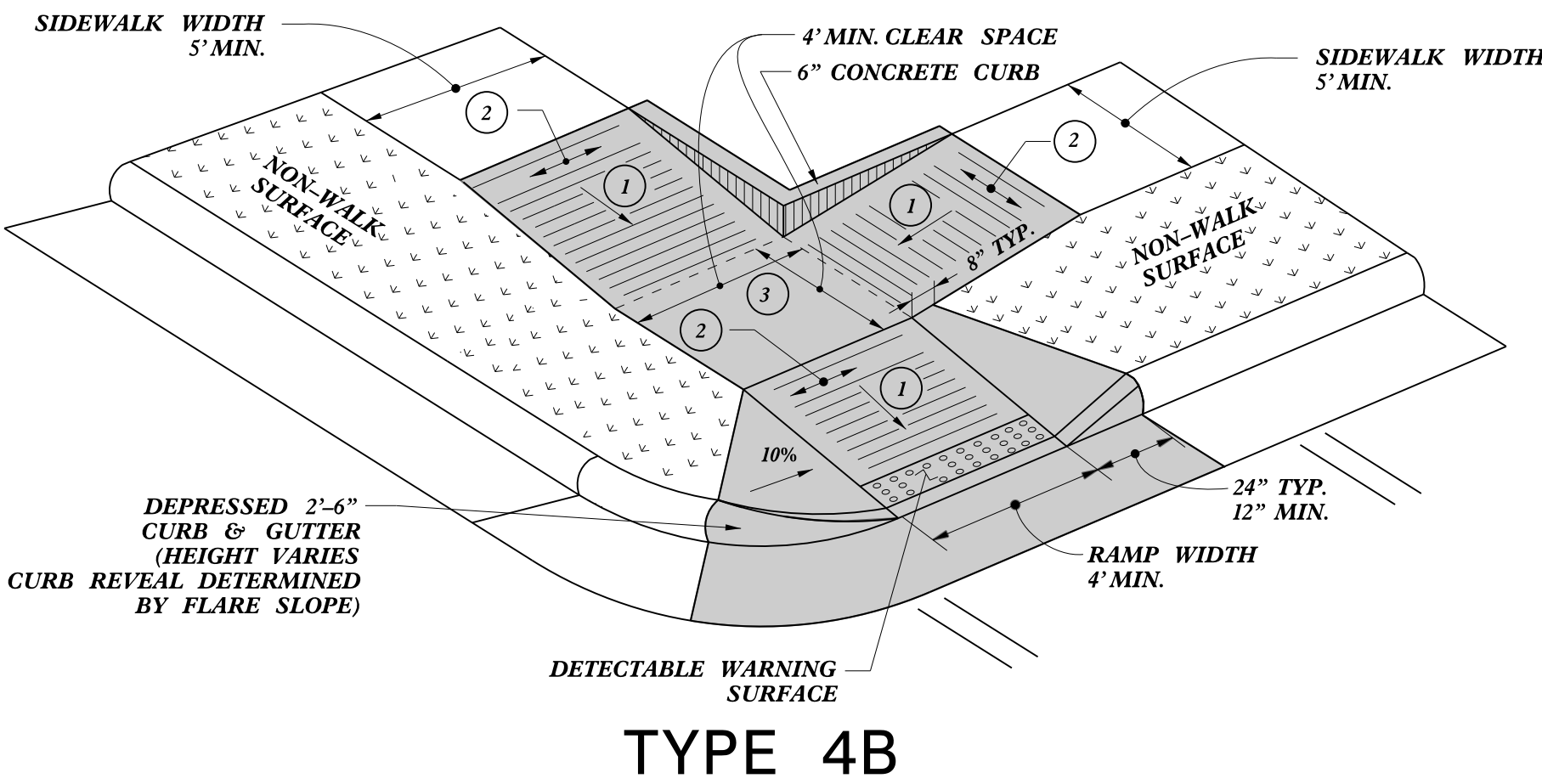
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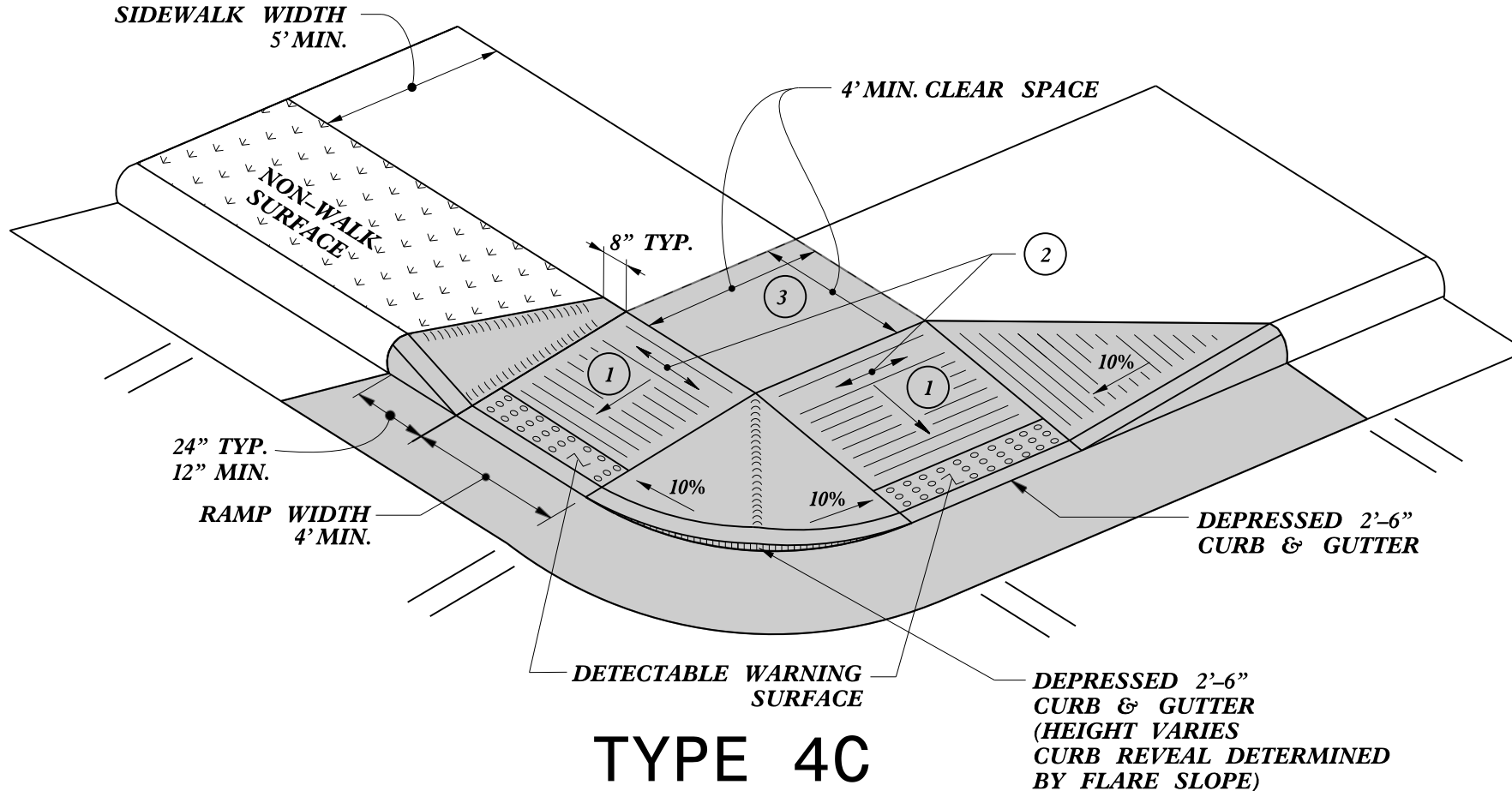
TYPE 4



TYPE 4A

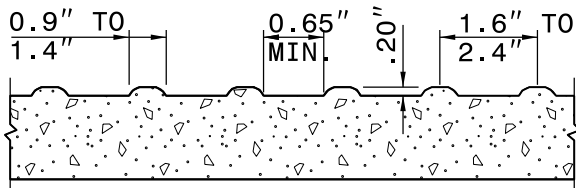
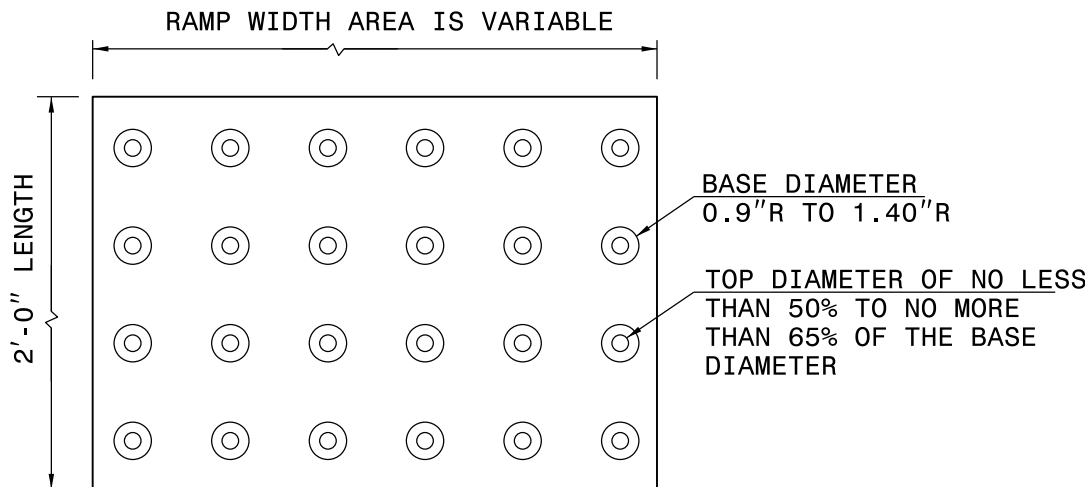


TYPE 4B



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.



- 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)

DETECTABLE WARNING SURFACE

STATE OF
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DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
CURB RAMP
SHARED LANDING

SHEET 10 OF 13
848D06



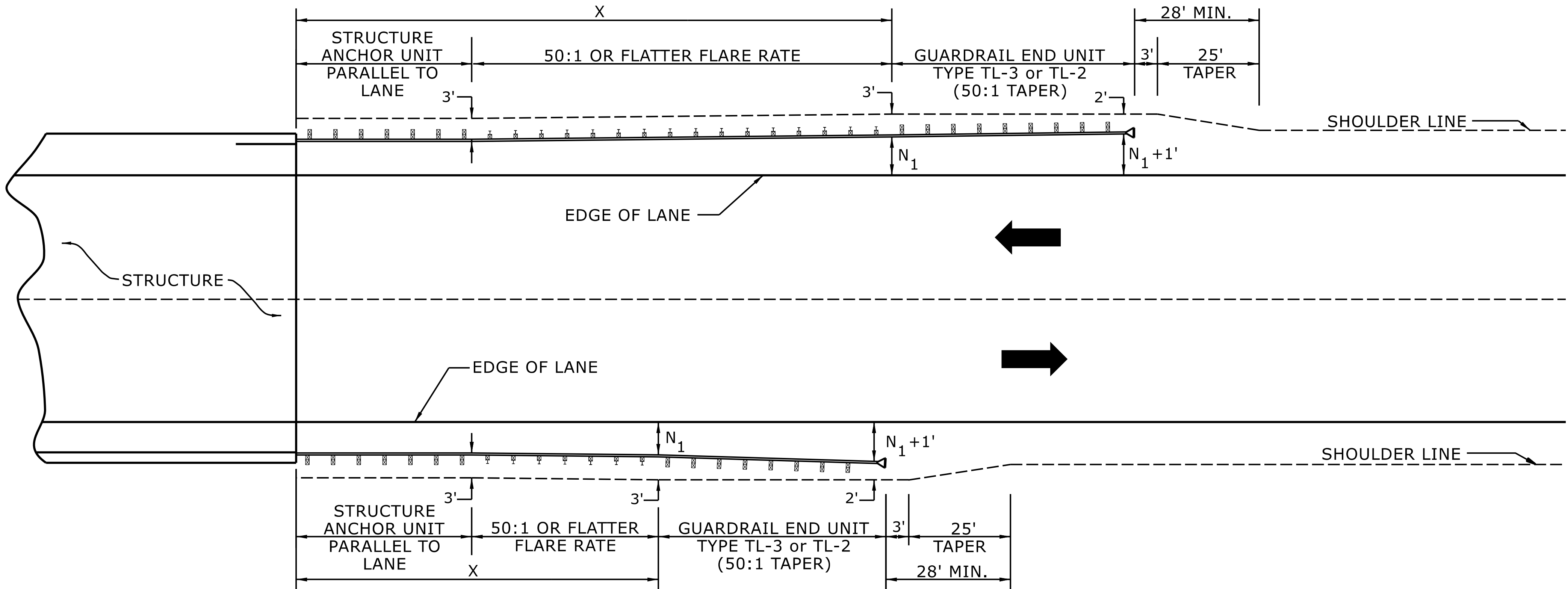
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UNLESS ALL SIGNATURES COMPLETED

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

SEE TITLE BLOCK

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CHECKED BY: DATE:
FILE SPEC.: special_details\nmhackler\848D0610.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-5863	2C-6



USE FLARE RATE AS THE CONTROL IF THE "N₁" DISTANCE IS NOT OBTAINED.
("N₁" IS BASED ON SHOULDER WIDTHS IN THE ROADWAY DESIGN MANUAL)

SEE STD. 862.03 FOR STRUCTURE ANCHOR UNITS

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

GUARDRAIL LENGTH OF NEED (X) IS CALCULATED BASED ON THE AASHTO ROADSIDE DESIGN GUIDE.

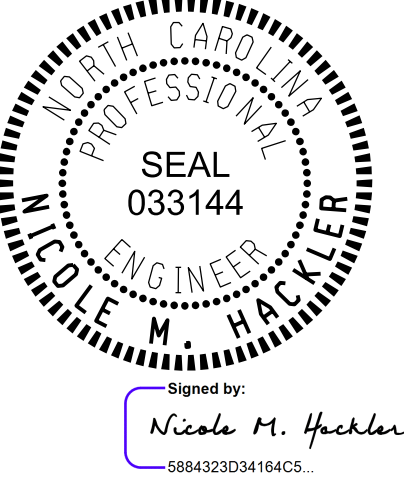
STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT

SHEET 4 OF 15

862D01

7/22/2025 | 9:48:04 AM PDT



LENGTHS AND OFFSETS FOR PROPOSED GUARDRAIL AT TWO LANE - TWO WAY LOCATIONS

DOCUMENT NOT CONSIDERED FINAL
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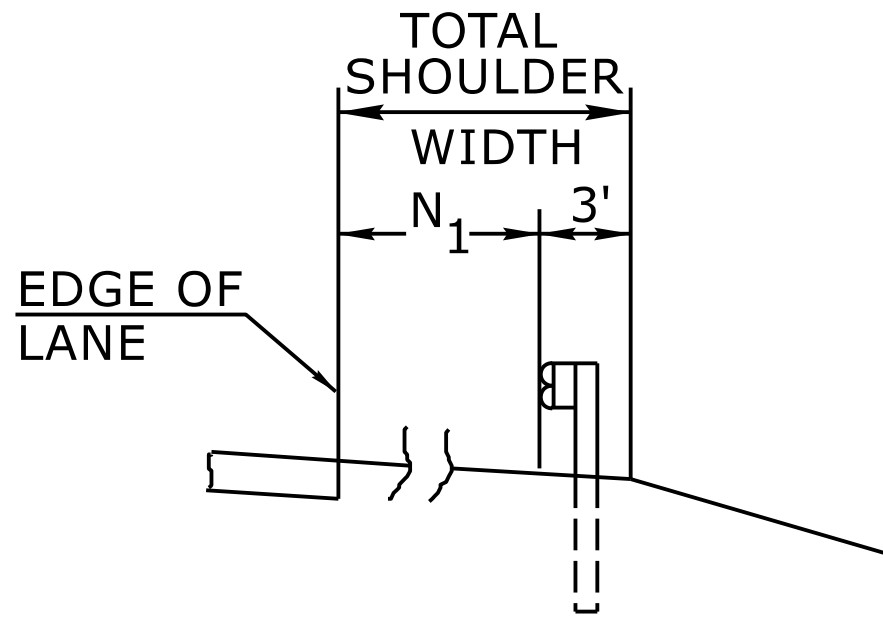
**CONTRACTS STANDARDS
AND DEVELOPMENT UNIT**

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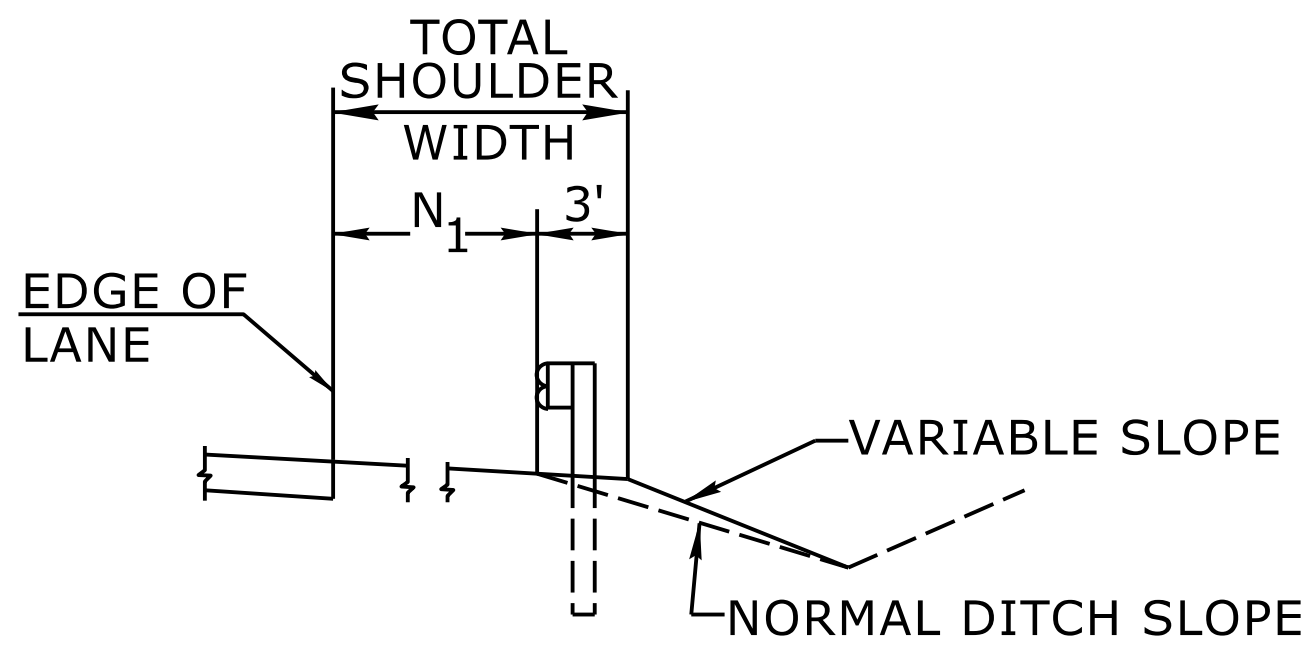
SEE TITLE BLOCK

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

PROJECT REFERENCE NO.	SHEET NO.
R-5863	2C-7

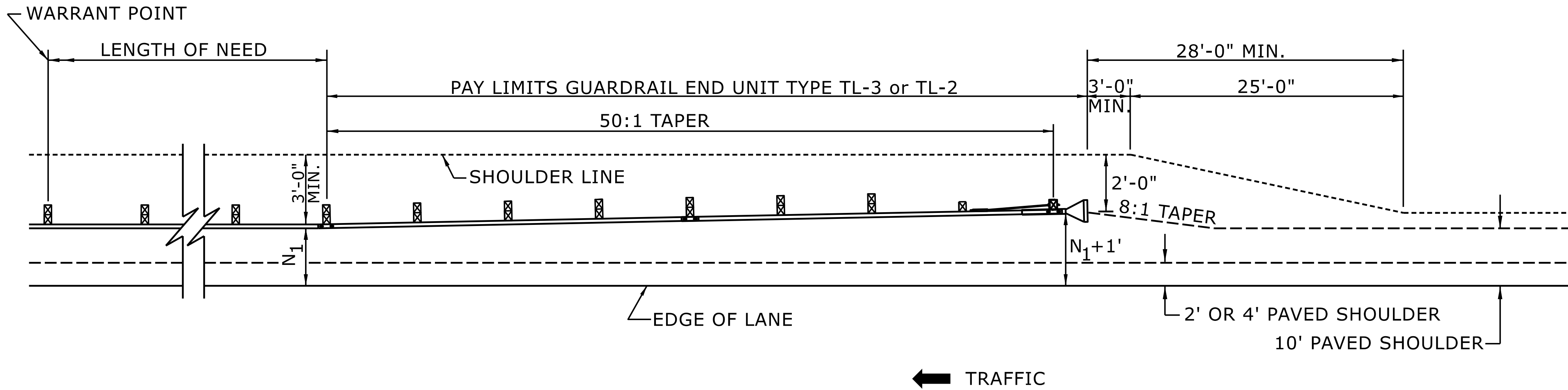


FILL SECTION



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

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

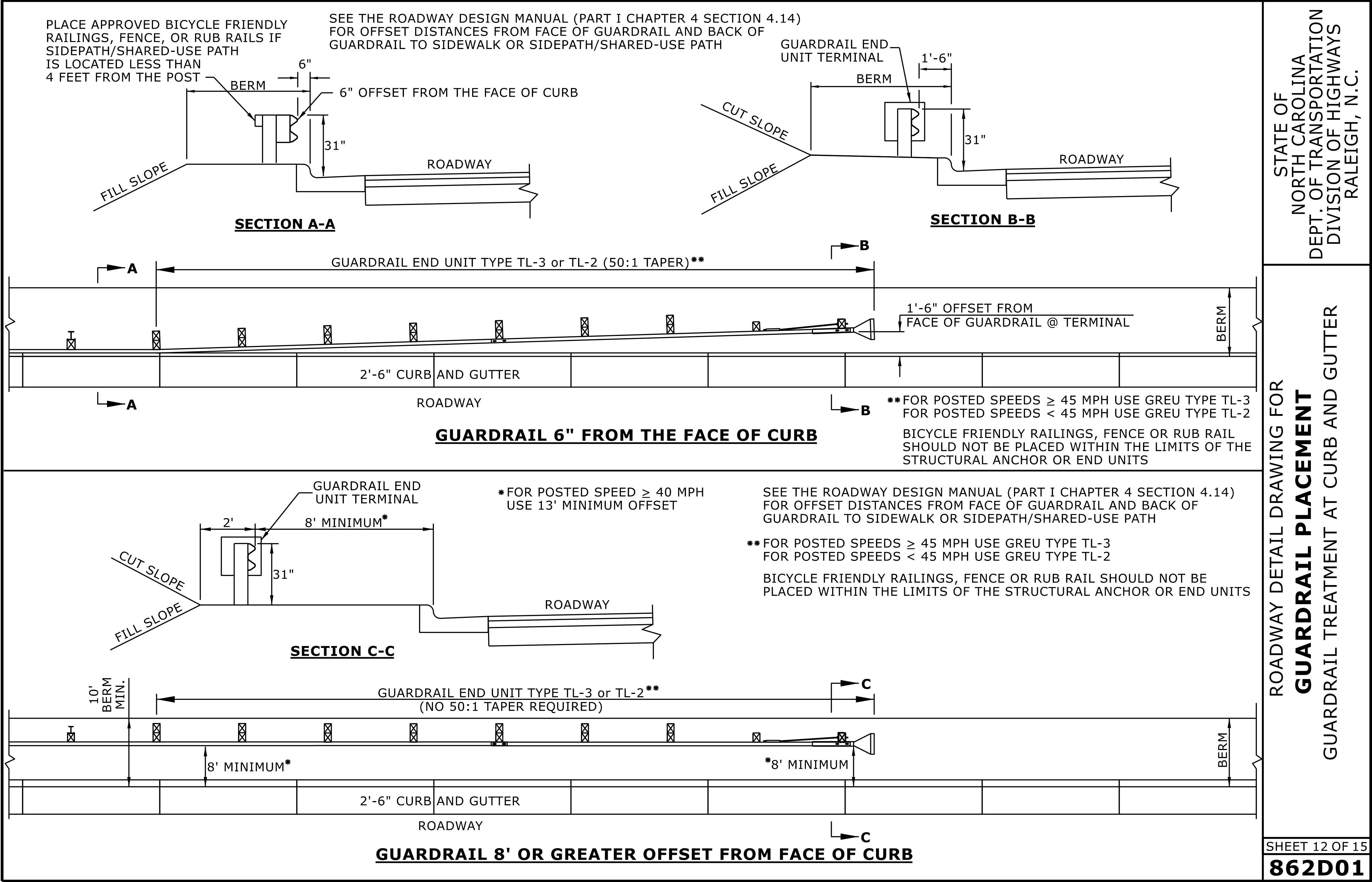
ROADWAY DETAIL DRAWING FOR
GUARDRAIL PLACEMENT

SHEET 6 OF 15
862D01



DOCUMENT NOT CONSIDERED FINAL
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CONTRACTS STANDARDS AND DEVELOPMENT UNIT			
Office 919-707-6950		FAX 919-250-4119	
SEE TITLE BLOCK			
ORIGINAL BY:	<u>S.CALHOUN</u>	DATE:	<u>7-25-2024</u>
MODIFIED BY:	<u> </u>	DATE:	<u> </u>
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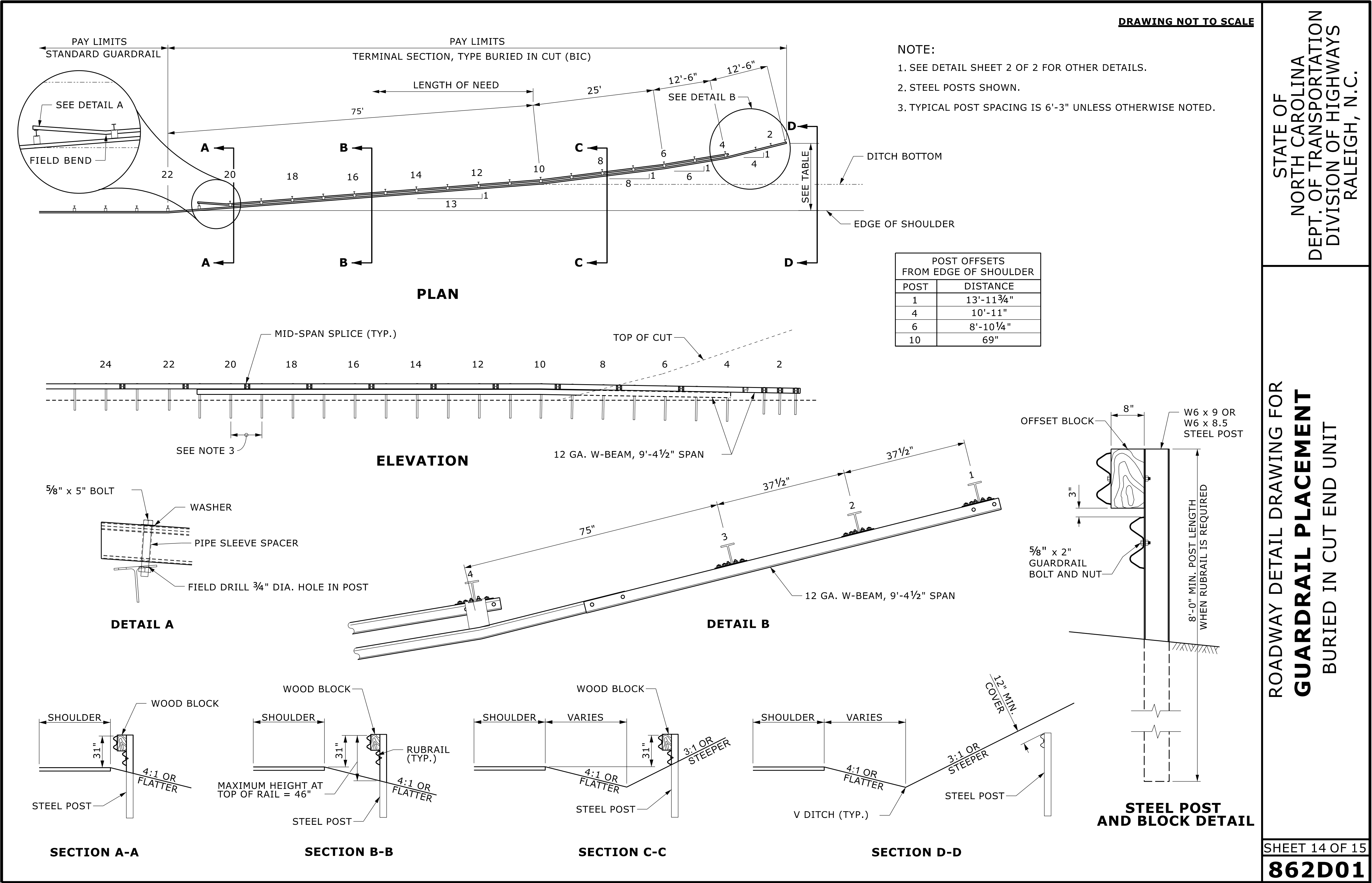
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**CONTRACTS STANDARDS
AND DEVELOPMENT UNIT**
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ORIGINAL BY: S.CALHOUN	DATE: 7-25-2024
MODIFIED BY:	DATE:
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FILE SPEC.:	

PROJECT REFERENCE NO.	SHEET NO.
R-5863	2C-9



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**CONTRACTS STANDARDS
AND DEVELOPMENT UNIT**
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SEE TITLE BLOCK

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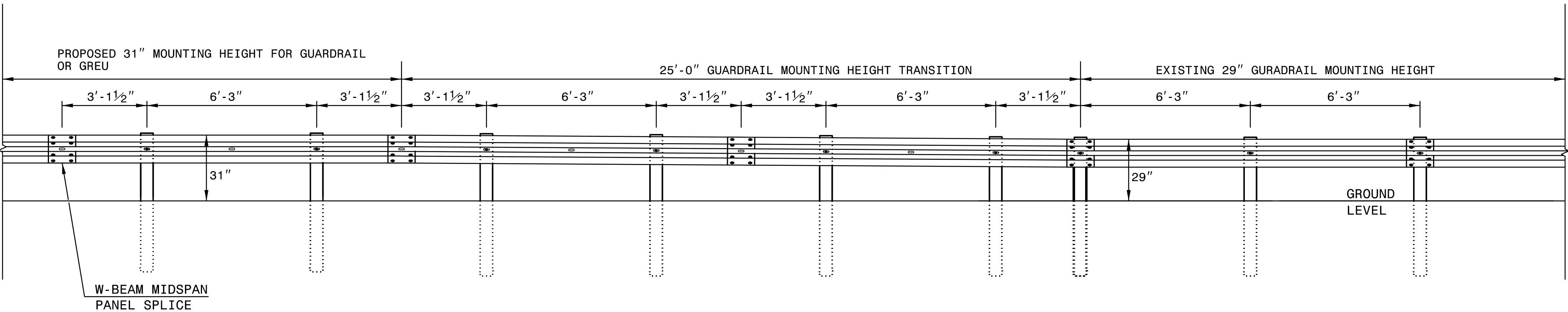
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R-5863	2C-10

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

SHEET 5 OF 9
862D02

**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



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**CONTRACTS STANDARDS
AND DEVELOPMENT UNIT**
Office 919-707-8950 FAX 919-250-4119

SEE TITLE BLOCK

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

PROJECT REFERENCE NO.
R-5863

SHEET NO.
2D-1

RW SHEET NO.

HYDRAULICS ENGINEER

700005

9:45:57 AM

PD

SEAL

31977

KEVIN B. FOLD

Professional Engineer

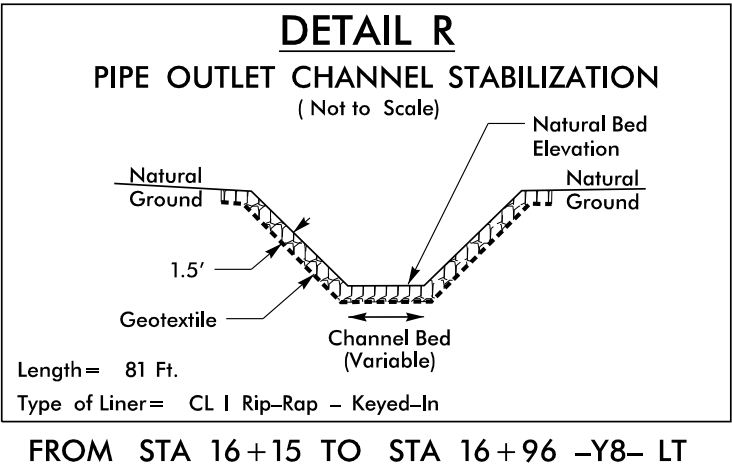
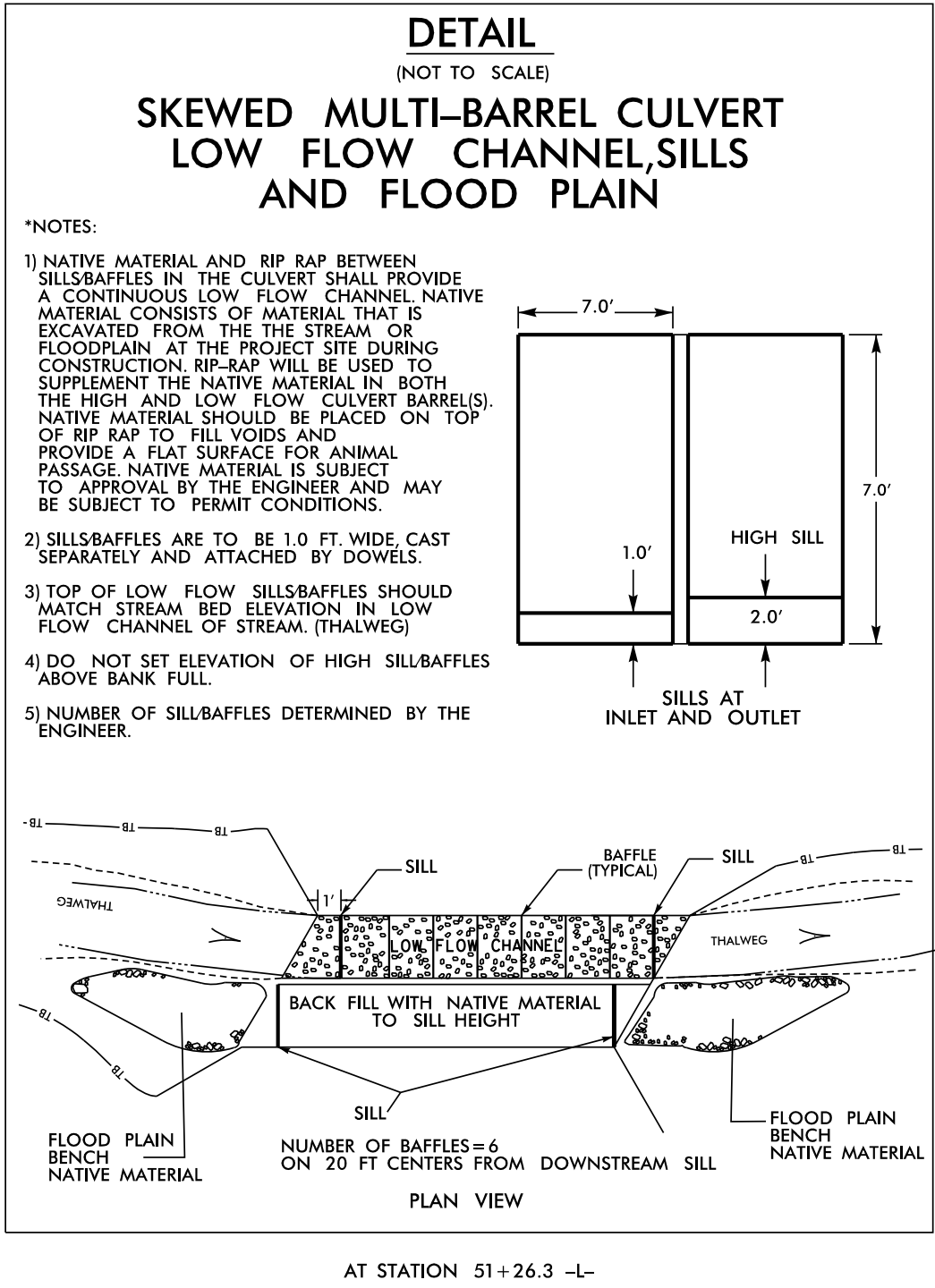
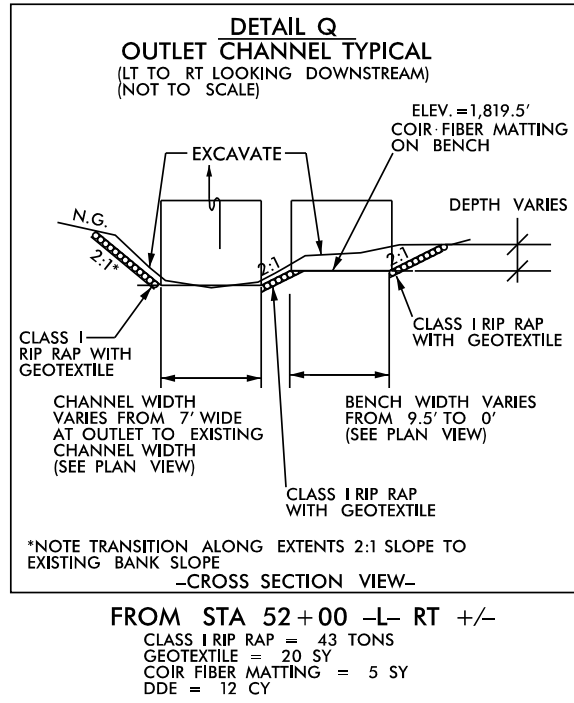
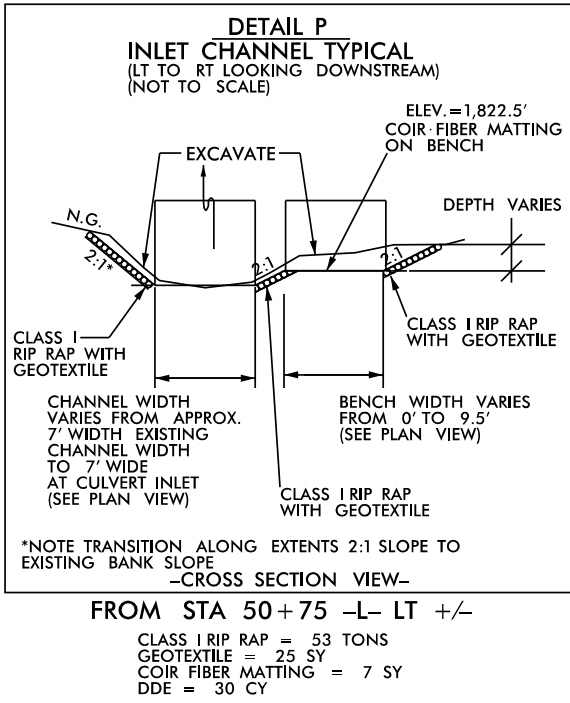
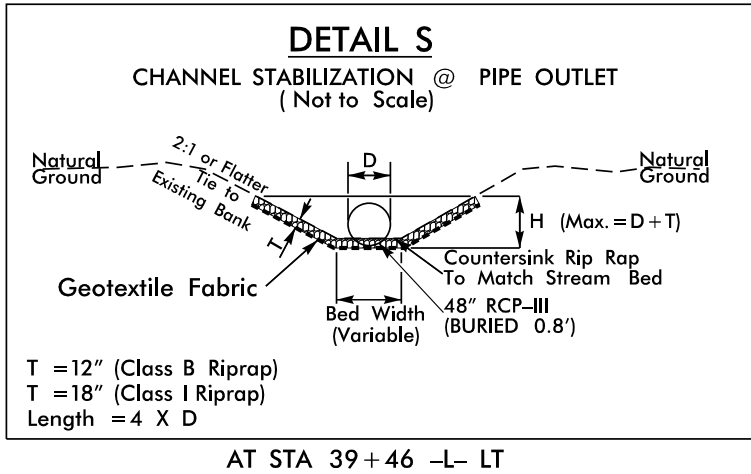
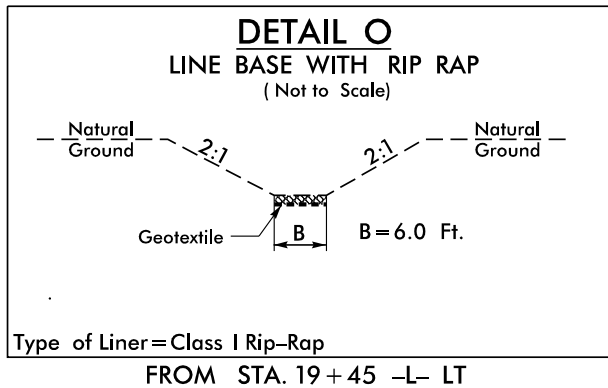
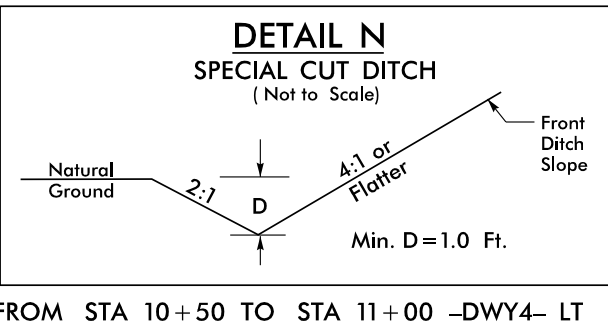
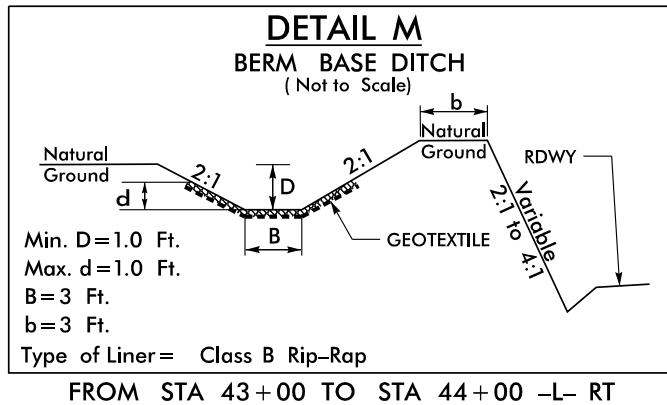
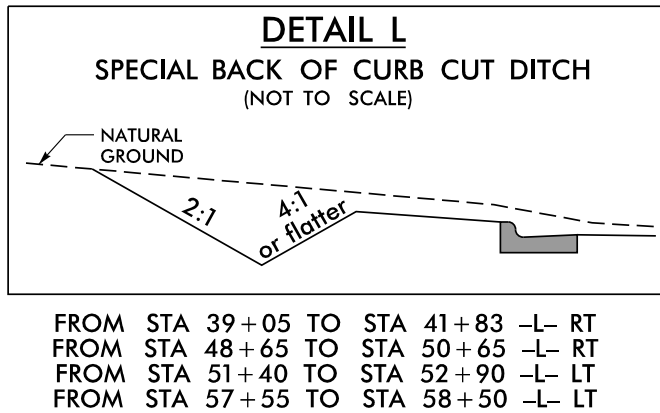
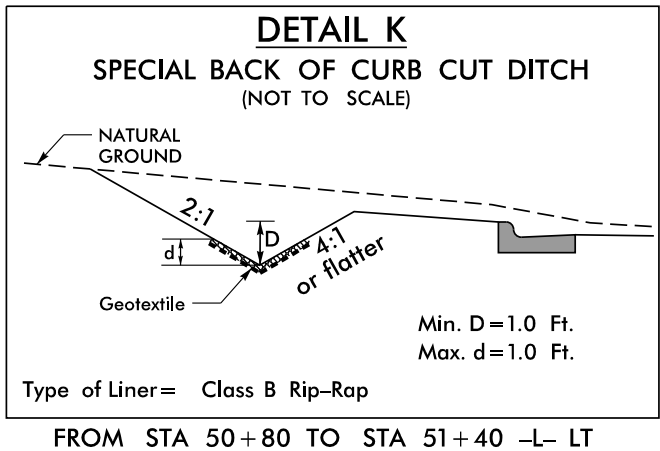
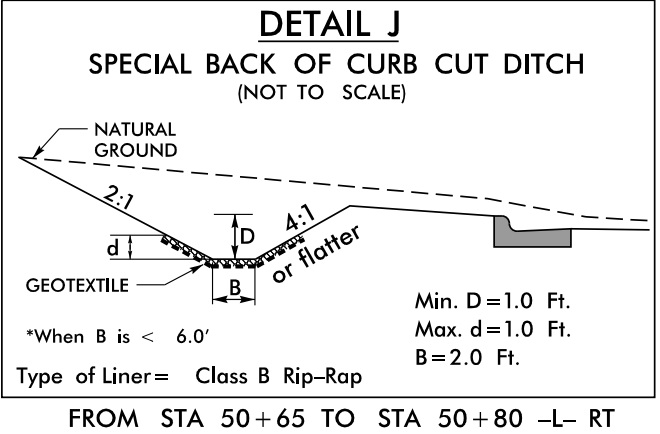
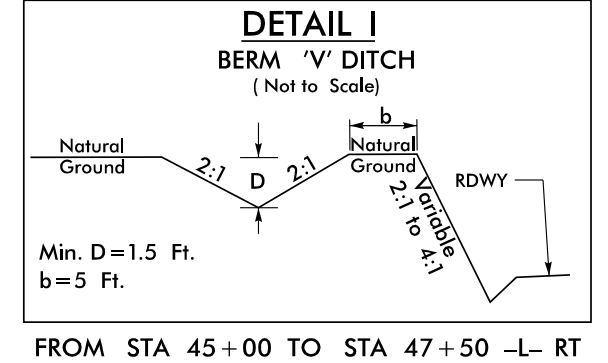
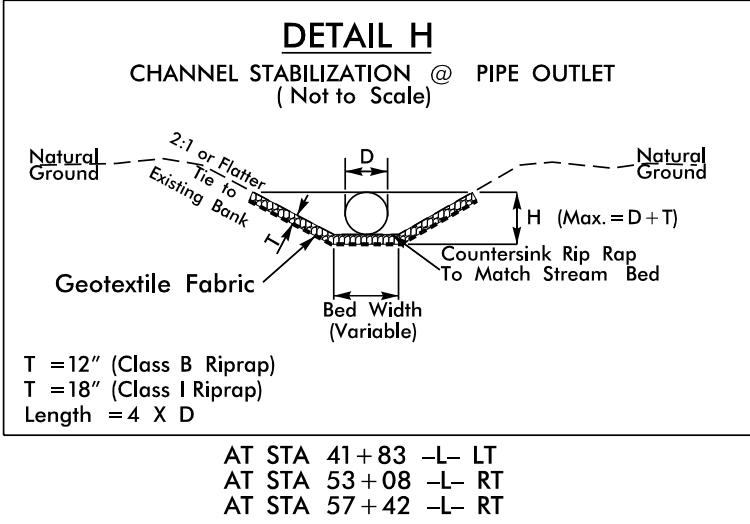
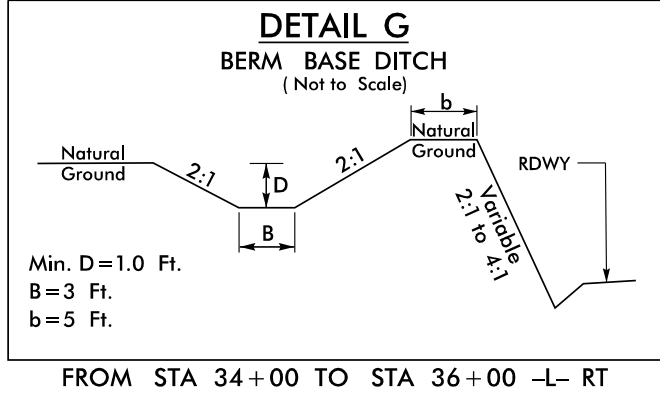
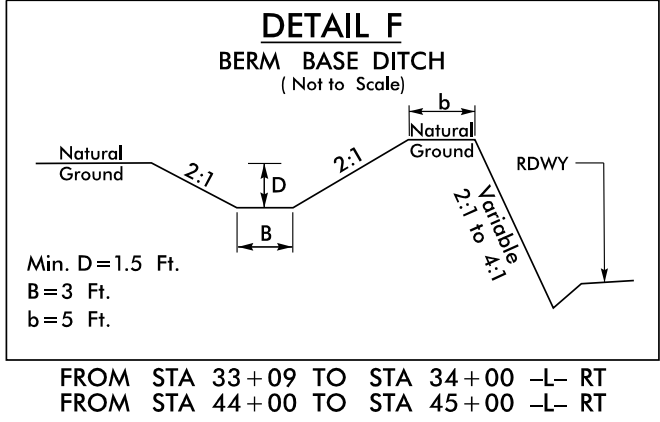
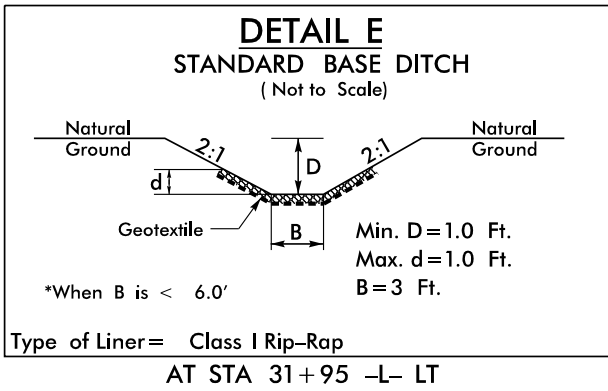
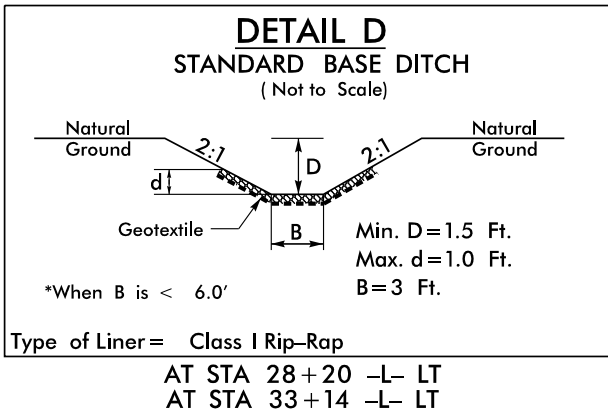
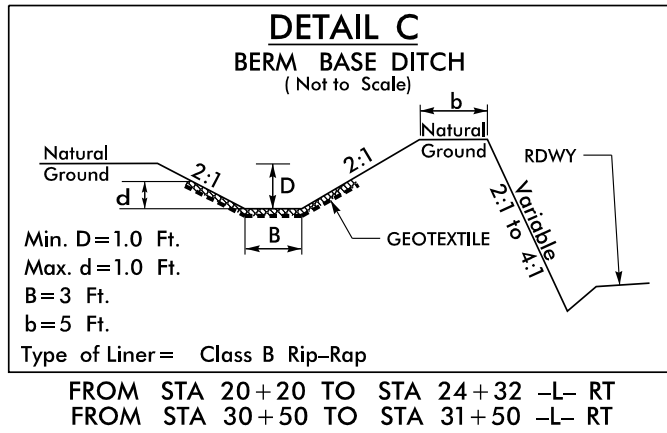
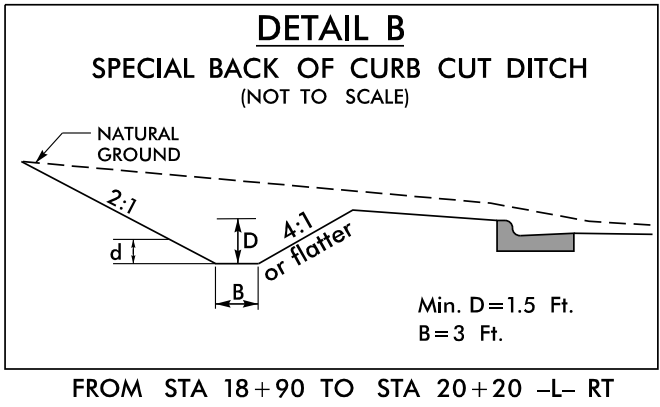
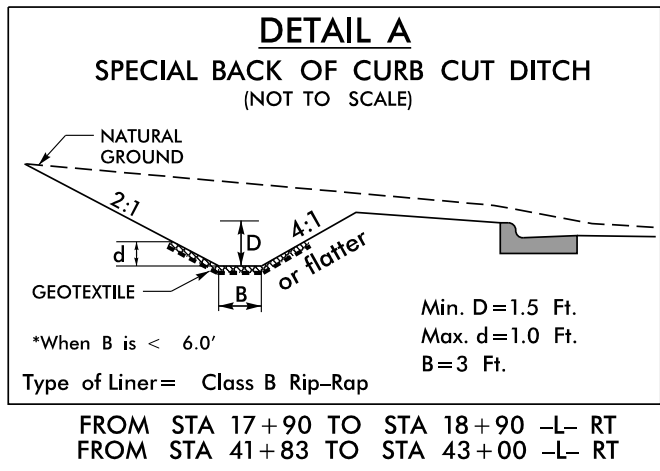
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GUARDRAIL SUMMARY

.../R5863-Rdy-CR-SUMMARY_3B-1.dgn

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

SUMMARY OF EARTHWORK

IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
PHASE ONE					
–Y3– 10+16.00 TO 12+08.59	1,189				1,189
SUBTOTAL	1,189				1,189
PHASE TWO					
–L– RT Sta. 10+30.00 TO 39+00.00	13,420		2,138		11,282
–L– RT Sta. 42+00.00 TO 49+00.00	4,839		610		4,229
–L– Sta. 49+00.00 TO 54+00.00	671		5,849	5,178	
–L– RT Sta. 54+00.00 TO 62+00.00	833		1,481	648	
–L– Sta. 62+00.00 TO 63+63.54			777	777	
–L– Sta. 64+94.29 TO 68+10.00	370		193		177
–L– RT Sta. 68+10.00 TO 72+65.00	101		91		10
–RAB– Sta. 10+00.00 TO 12+95.31	987		1,334	347	
–Y3A– Sta. 10+16.18 TO 10+85.00	13		229	216	
–Y5– Sta. 10+25.00 TO 11+64.15	592		7		585
–Y6– Sta. 10+13.07 TO 11+49.01	100				100
–Y7– Sta. 10+65.02 TO 12+70.00	23		561	538	
–Y8– Sta. 10+19.73 TO 15+10.00	172		2		170
–DWY4– Sta. 10+17.00 TO 11+90.00	217		79		138
–DWY6– Sta. 10+27.00 TO 10+90.00	77				77
–DWY7– Sta. 10+27.00 TO 11+07.00	204				204
SUBTOTAL	22,619		13,352	7,705	16,972
PHASE THREE					
–L– LT Sta. 10+30.00 TO 39+00.00	293		12,129	11,836	
–L– Sta. 39+00.00 TO 42+00.00	316		2,666	2,350	
–L– LT Sta. 42+00.00 TO 49+00.00	104		1,761	1,657	
–L– LT Sta. 54+00.00 TO 62+00.00	422		354		68
–L– LT Sta. 68+10.00 TO 72+65.00	88		69		19
–DWY1– Sta. 10+00.00 TO 11+63.64	8		307	299	
–DWY2– Sta. 11+30.00 TO 12+65.24	3		369	366	
–Y1– Sta. 14+10.00 TO 14+90.09	118		2		116
–Y2– Sta. 23+18.00 TO 23+83.81	151				151
–Y4– Sta. 41+35.00 TO 42+98.44	37		270	233	
SUBTOTAL	1,540		17,927	16,741	354
TOTAL	25,348		31,278	24,445	18,515
LOSS DUE TO CLEARING AND GRUBBING	–2,300			2,300	
WASTE IN LIEU OF BORROW				–18,515	–18,515
PROJECT TOTAL	23,048			8,230	
5% TO REPLACE TOPSOIL IN BORROW PIT				412	
GRAND TOTAL	23,048		31,278	8,642	
SAY	23,100			8,700	

PAVEMENT REMOVAL SUMMARY

IN SQUARE YARDS

LOCATION	ASPHALT PAVEMENT REMOVAL	ASPHALT PAVEMENT BREAKUP	CONCRETE PAVEMENT REMOVAL	CONCRETE PAVEMENT BREAKUP
—L— Sta. 10+26 to 12+60 LT	412			
—L— Sta. 10+26 to 11+36 RT	65			
—Y1— Sta. 14+10.65. to 14+98 CL	370			
—L— Sta. 40+50 to 47+00 LT	1385			
—L— Sta. 49+00 to 54+00 CL	1077			
—Y3A— Sta. 10+08 to 10+85 CL	221			
—L— Sta. 56+77 to 61+38 LT	165			
—Y4— Sta. 41+35 to 43+04 CL	534			
—L— Sta. 62+00 to 66+90 CL	1430			
—Y7— Sta. 10+90 to 12+20 Rt.	249			
—Y5— Sta. 10+25 to 65+65 L Lt	806			
—L— Sta. 66+90 to 70+60 Lt.	44			
—Y8— Sta. 10+20 to 12+75 Lt.	272			
TOTAL	7030			
SAY	7050			

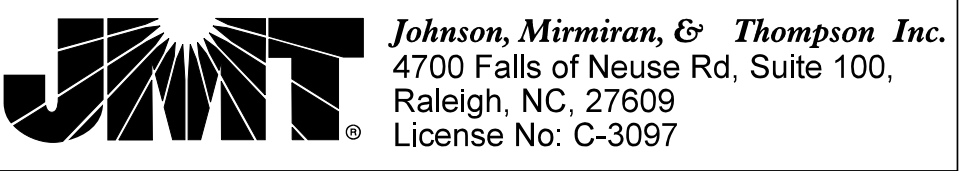
NOTE: Approximate quantities only. Borrow Excavation, Fine Grading, Clearing and Grubbing, and Removal of Asphalt Pavement will be paid for at the contract Lump Sum cost for "Grading".

NOTE: Earthwork quantities are calculated by JMT.
These earthwork quantities are based in part on subsurface data
provided by the Geotechnical Engineering Unit.

CHAIN LINK FENCE SUMMARY, 48" FABRIC

LOCATION	LT OR RT	FABRIC LF	LINE POSTS EA	TERMINAL POSTS EA	
-L- Sta. 55 + 30.00 TO 56 + 90.00	LT	160'	13	2	
TOTAL		160'	13	2	

SHALLOW UNDERCUT – 500 CY
UNDERCUT EXCAVATION – 2250 CY
SELECT GRANULAR MATERIAL – 2000 CY
DRAINAGE DITCH EXCAVATION – 220 CY
GEOTEXTILE FOR SOIL STABILIZATION – 2000 SY
GEOTEXTILE FOR SUBGRADE STABILIZATION – 1500 SY
CLASS IV SUBGRADE STABILIZATION – 1000 TONS



8/17/99

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COMPUTED BY: Crystal D. Johnson, PG DATE: 9/20/2023

CHECKED BY: Michael H. Stephens, PE DATE: 9/27/2023

(2-3-23)

STATE OF NORTH CAROLINA

DIVISION OF HIGHWAYS

PROJECT NO.

47516.1.1 (R-5863)

SHEET NO.

3G-1

SUMMARY OF SUBSURFACE DRAINAGE

LINE	Station	Station	Location LT/RT/CL	Drain Type* UD/BD/SD	LF
CONTINGENCY				SD	500
				TOTAL LF:	500

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

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
CONTINGENCY				12	500	1000	1500		
			TOTAL CY/TONS/SY:		500	1000**	1500**	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.

5/28/99

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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PARCEL INDEX SHEET

PROJECT REFERENCE NO.
R-5863

SHEET NO.
3P-1



Johnson, Mirmiran, & Thompson Inc.
4700 Falls of Neuse Rd, Suite 100,
Raleigh, NC, 27609
License No: G-3097

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
1	4	BILLY JOE HODGSON
1A	4	DAVID ANDERSON AND WIFE,REBECCA ANDERSON
2	4	JUDY BIVENS
2A	4	JULIA BIVENS AND HUSBAND,WILLIAM BAXTER BIVENS,LIFE ESTATE
3	4	DAVID ANDERSON
3A	4	BILLY JOE HODGSON
4	4	BRUCE R.DAVENPORT
5	4	CLAY COUNTY
6	4	CLAY COUNTY
7 & 7Z	4 & 5	CLAY COUNTY
8	4 & 5	JSL'S PARTNERSHIP,LLC
9	5	WILLIAM B.TIBBETTS
10	5	REBECCA T.SMITH
11	5	ROEL SMART
12	5	REBECCA T.SMITH
13 & 13Z	5 & 6	RICHARD E.OSBORN
14A & 14AZ	5	ROBERT J.CONLEY
14B	5	ROBERT J.CONLEY
14C & 14CZ	5	ROBERT J.CONLEY
14D	5	ROBERT J.CONLEY
15	5 & 6	EDWIN B.GARRISON
16	6	MARK HARRELL
17 & 17Z	6	MALISSA REEL
18	6	HAYESVILLE MARKETING AND STAFFING,LLC
18A	6	FELICIA R.MULL
19	6	DOROTHY MOORE, widow
19A	6	RANDALL MOORE AND HOLLY ROLLINS
20 & 20Z	6	CLAY COUNTY
21 & 21Z	6 & 7	LODESTONE DEVELOPMENT,II,LLC
22 & 22Z	7	LODESTONE DEVELOPMENT,II,LLC
23	6 & 7	JAMES BYERS ESTATE
24	6	BILL MOODY
25	7	CLAY COUNTY ASSOCIATES
26	7	TRAVIS ANDERSON
27	7	MICHAEL ALLEN
28	7	JAMES N.LEMPKA
28A	7	TITO J.RAMOS and wife ALEXIS G.KING
29 & 29A	7	ARAGORN MCGEE KRIEGER

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
30	7	JENNIFER ANN CARTER AND HUSBAND,MARK A.CARTER
31 & 31Z	7	KATHY HENSON
31A & 31AZ	7	KATHY HENSON
31B & 31BZ	7	KATHY HENSON
32	7	JASON D.BELCHER
33 & 33Z	7 & 8	HAYESVILLE PRESBYTARIAN CHURCH
34	7 & 8	B & T SUPERMARKET,INC
35 & 35Z	8	MATTHEW DANICO AND WIFE,AMANDA DANICO
35A	8	UNOPENED STREET
36 & 36Z	8	THOMAS N.WHITE
37 & 37Z	8	CLAY COUNTY FIRE AND RESCUE SQUAD,INC
38 & 38Z	7 & 8	ROSELYN HUNT
39 & 39Z	8	KATHY HENSON
40 & 40Z	8	HAYESVILLE FIRST UNITED METHODIST CHURCH
41 & 41Z	8	TRUETT MEMORIAL BAPTIST CHURCH
42 & 42Z	8	TRUETT MEMORIAL BAPTIST CHURCH
43	8	ROBERT N.TIGER, Jr. LIVING TRUST
43A	8	CHRISTOPHER SPRING
44 & 44Z	8	JOHN E.SPRING,et.al.
45 & 45Z	8	DEERHILL HOLDING CO,LLC
46 & 46Z	8	MICHAEL PLUMMER
47	8	TUSQUITTEE VALLEY,LLC
47A	8 & 9	MAY STREET (NO CLAIM)
48B	9	WHMP,LLC
48A	8	CLAY FARMERS EXCHANGE AND BUILDERS SUPPLY,INC
48	9	CLAY FARMERS EXCHANGE AND BUILDERS SUPPLY,INC
48C	9	WHMP,LLC
48D	8	WHMP,LLC
49	9	RAYMOND P.COTE, Jr.
49B	9	3631 RAYMOND DRIVE, LLC (GA)
49A	9	SANDERSON ST.(NO CLAIM)
50	9	TOWN OF HAYESVILLE
51	8	WHMP,LLC
52	8	TOWN OF HAYESVILLE,NORTH CAROLINA
53	7 & 8	HAYESVILLE FIRST UNITED METHODIST CHURCH

51499

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- 1

BILLY JOE HODGSON
DB 294 PG 239
- 2

JUDY BIVENS
DB 265 PG 268
- 3

DAVID ANDERSON
DB 265 PG 267

-L-
PI Sta 11+53.90
Δ = 57° 17' 43.6" (RT)
D = 25' 21' 07.6"
L = 226.00'
T = 123.46'
R = 226.00'
DS = 25 MPH
SE = 0.04

-YI-
PI Sta 14+06.54
Δ = 7° 45' 07.2" (LT)
D = 6' 21' 58.3"
L = 121.77'
T = 60.98'
R = 900.00'
SE = Exist.

-DWYI-
PI Sta 10+42.80
Δ = 23° 05' 43.5" (LT)
D = 36' 57' 54.1"
L = 62.48'
T = 31.67'
R = 155.00'
SE = NC
PI Sta 11+41.25
Δ = 8° 29' 45.6" (RT)
D = 57' 57' 28.1"
L = 1.48'
T = 0.74'
R = 10.00'
SE = NC

-DWY2-
PI Sta 11+89.75
Δ = 9° 53' 18.8" (LT)
D = 47' 44' 47.3"
L = 20.71'
T = 10.38'
R = 120.00'
SE = NC

NOTE:
Corrugated steel pipe, on a slope 10% or greater, will be installed with elbows and rod and lug connectors with sleeve gaskets.

FOR PROFILE OF LINE -L- SEE SHEET 10
FOR PROFILE OF LINE -YI- SEE SHEET 12
FOR PROFILE OF -DWYI- and -DWY2- SEE SHEET 14

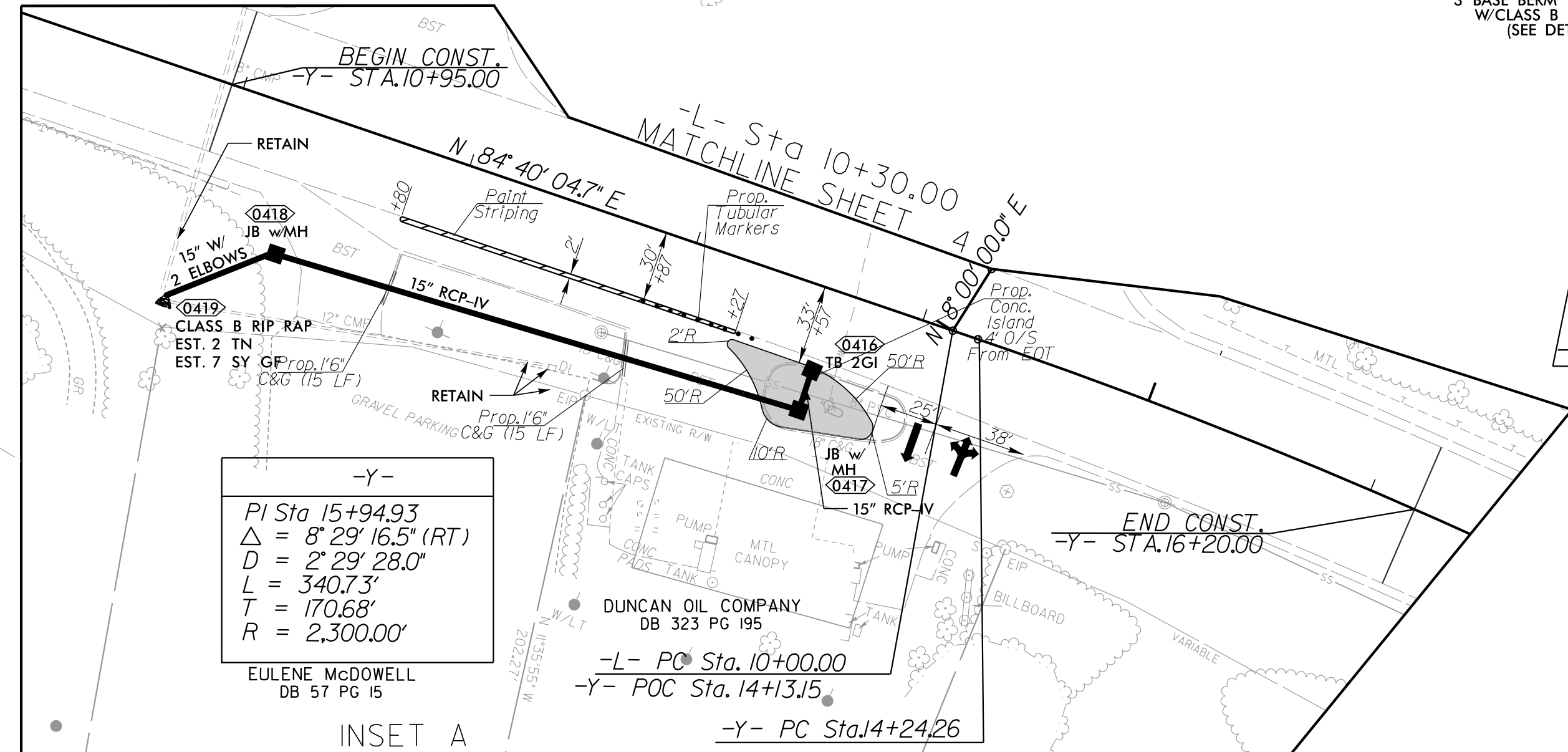
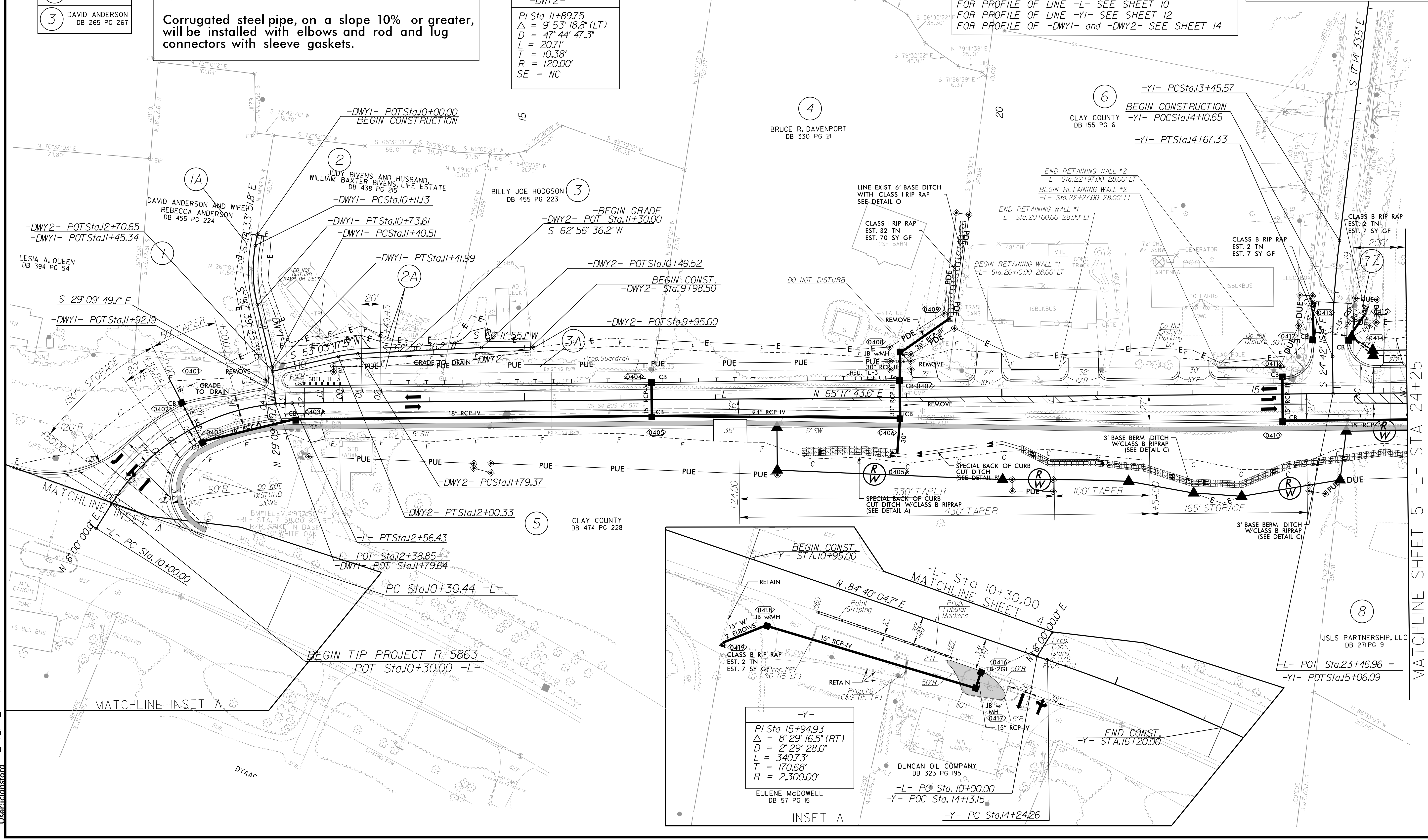
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License No: C-3097

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ROADWAY DESIGN ENGINEER
7/23/2025 12:47:08 PM EDT
NORTH CAROLINA PROFESSIONAL SEAL 15435
JOHN C. LAUSFORD
358000817E44B

HYDRAULICS ENGINEER
7/23/2025 12:47:08 PM EDT
NORTH CAROLINA PROFESSIONAL SEAL 31977
DAVID ANDERSON
258000817E44B

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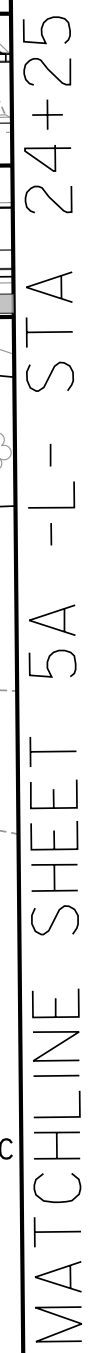
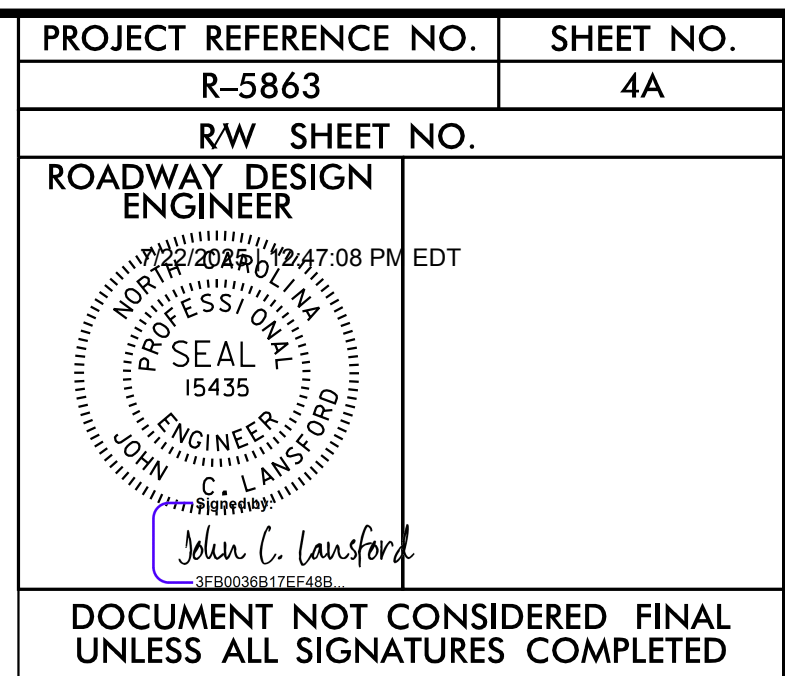
-L-
PI Sta 11+53.90
$\Delta = 57^{\circ}17'43.6''$ (RT)
$D = 25^{\circ}21'07.6''$
$L = 226.00'$
$T = 123.46'$
$R = 226.00'$
$DS = 25$ MPH
$SE = 0.04$

-YI-
PI Sta 14+06.54
$\Delta = 7^{\circ}45'07.2''$ (LT)
$D = 6^{\circ}21'58.3''$
$L = 121.77'$
$T = 60.98'$
$R = 900.00'$
$SE = Ex1st.$

-DWYI-	
PI Sta 10+42.80	PI Sta 11+41.25
$\Delta = 23^{\circ}05'43.5''$ (LT)	$\Delta = 8^{\circ}29'45.6''$ (RT)
$D = 36^{\circ}57'54.1''$	$D = 57^{\circ}57'28.1''$
$L = 62.48'$	$L = 1.48'$
$T = 31.67'$	$T = 0.74'$
$R = 155.00'$	$R = 10.00'$
$SE = NC$	$SE = NC$

-DWY2-
PI Sta 11+89.75
$\Delta = 9^{\circ}53'18.8''$ (LT)
$D = 47^{\circ}44'47.3''$
$L = 20.71'$
$T = 10.38'$
$R = 120.00'$
$SE = NC$

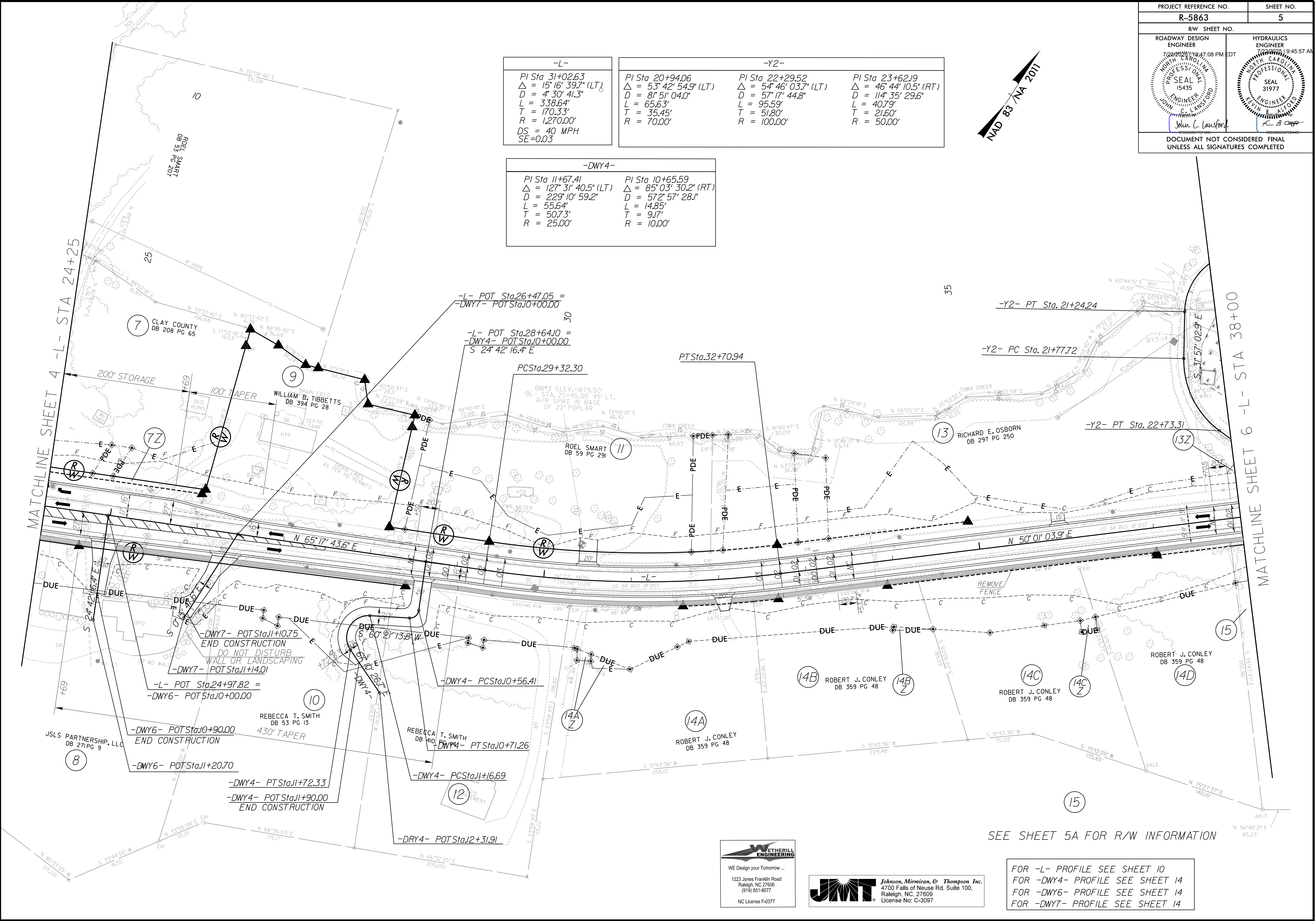
The diagram shows a two-part curve. The first part has a length of 222.67' and a deflection angle of 72°50'12" E. The second part has a length of 22.67' and a deflection angle of 72°50'12" E. The total length of the curve is 245.34'.



NOTE: SHEET 4A TO BE USED ONLY FOR RIGHT OF WAY PURPOSES
SEE SHEET 4 FOR PLANS

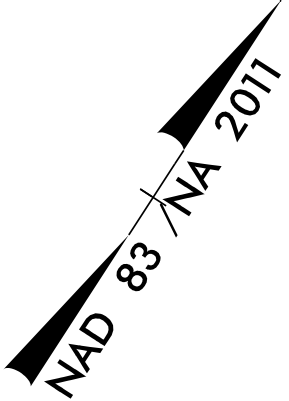
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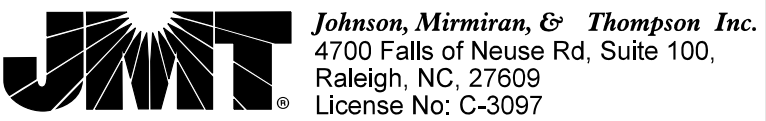


-L-	-Y2-			
PI Sta 31+02.63 Δ = 15° 16' 39.7" (LT) D = 4° 30' 41.3" L = 338.64' T = 170.33' R = 1,270.00' DS = 40 MPH SE=0.03	PI Sta 20+94.06 Δ = 53° 42' 54.9" (LT) D = 81° 51' 04.0" L = 65.63' T = 35.45' R = 70.00'	PI Sta 22+29.52 Δ = 54° 46' 03.7" (LT) D = 57° 17' 44.8" L = 95.59' T = 51.80' R = 100.00'	PI Sta 23+62.19 Δ = 46° 44' 10.5" (RT) D = 114° 35' 29.6" L = 40.79' T = 21.60' R = 50.00'	

-DWY4-	
PI Sta 11+67.41 Δ = 127° 31' 40.5" (LT) D = 229° 10' 59.2" L = 55.64' T = 50.73' R = 25.00'	PI Sta 10+65.59 Δ = 85° 03' 30.2" (RT) D = 57° 57' 28.1" L = 14.85' T = 9.17' R = 10.00'



PROJECT REFERENCE NO.		SHEET NO.
R-5863		5
RW SHEET NO.		HYDRAULICS
ROADWAY DESIGN ENGINEER		ENGINEER
7/23/2024 10:47:08 PM EDT		7/23/2024 9:45:57 AM PDT
John C. Lansford		Kevin R. Alford
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



SEE SHEET 5A FOR R/W INFORMATION

FOR -L- PROFILE SEE SHEET 10
FOR -DWY4- PROFILE SEE SHEET 14
FOR -DWY6- PROFILE SEE SHEET 14
FOR -DWY7- PROFILE SEE SHEET 14

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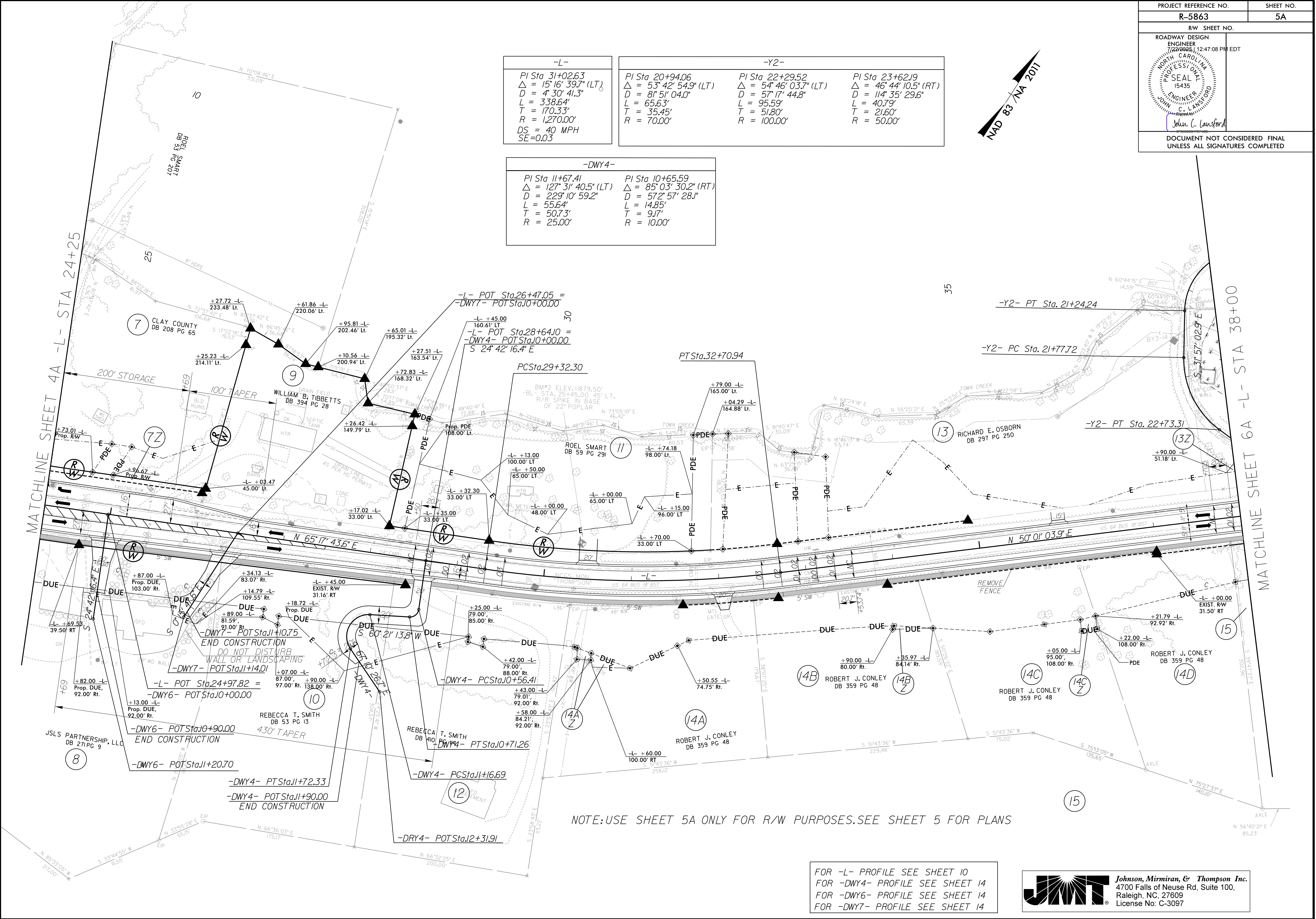
PROJECT REFERENCE NO.
R-5863

SHEET NO.
5A

R/W SHEET NO.

ROADWAY DESIGN
ENGINEER
(2200006) 12:47:08 PM EDT
NORTH CAROLINA
PROFESSIONAL
SEAL
15435
ENGINEER
JOHN C. LAUSFORD

DOCUMENT NOT CONSIDERED FINAL
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-L- PI Sta 31+02.63 Δ = 15° 16' 39.7" (LT) D = 4° 30' 41.3" L = 338.64' T = 170.33' R = 1,270.00' DS = 40 MPH SE=0.03	-Y2- PI Sta 20+94.06 Δ = 53° 42' 54.9" (LT) D = 81° 51' 04.0" L = 65.63' T = 35.45' R = 70.00'	PI Sta 22+29.52 Δ = 54° 46' 03.7" (LT) D = 57° 17' 44.8" L = 95.59' T = 51.80' R = 100.00'	PI Sta 23+62.19 Δ = 46° 44' 10.5" (RT) D = 114° 35' 29.6" L = 40.79' T = 21.60' R = 50.00'
-DWY4- PI Sta 11+67.41 Δ = 127° 31' 40.5" (LT) D = 229° 10' 59.2" L = 55.64' T = 50.73' R = 25.00'	PI Sta 10+65.59 Δ = 85° 03' 30.2" (RT) D = 57° 57' 28.1" L = 14.85' T = 9.17' R = 10.00'		

NOTE:USE SHEET 5A ONLY FOR R/W PURPOSES.SEE SHEET 5 FOR PLANS

FOR -L- PROFILE SEE SHEET 10
FOR -DWY4- PROFILE SEE SHEET 14
FOR -DWY6- PROFILE SEE SHEET 14
FOR -DWY7- PROFILE SEE SHEET 14



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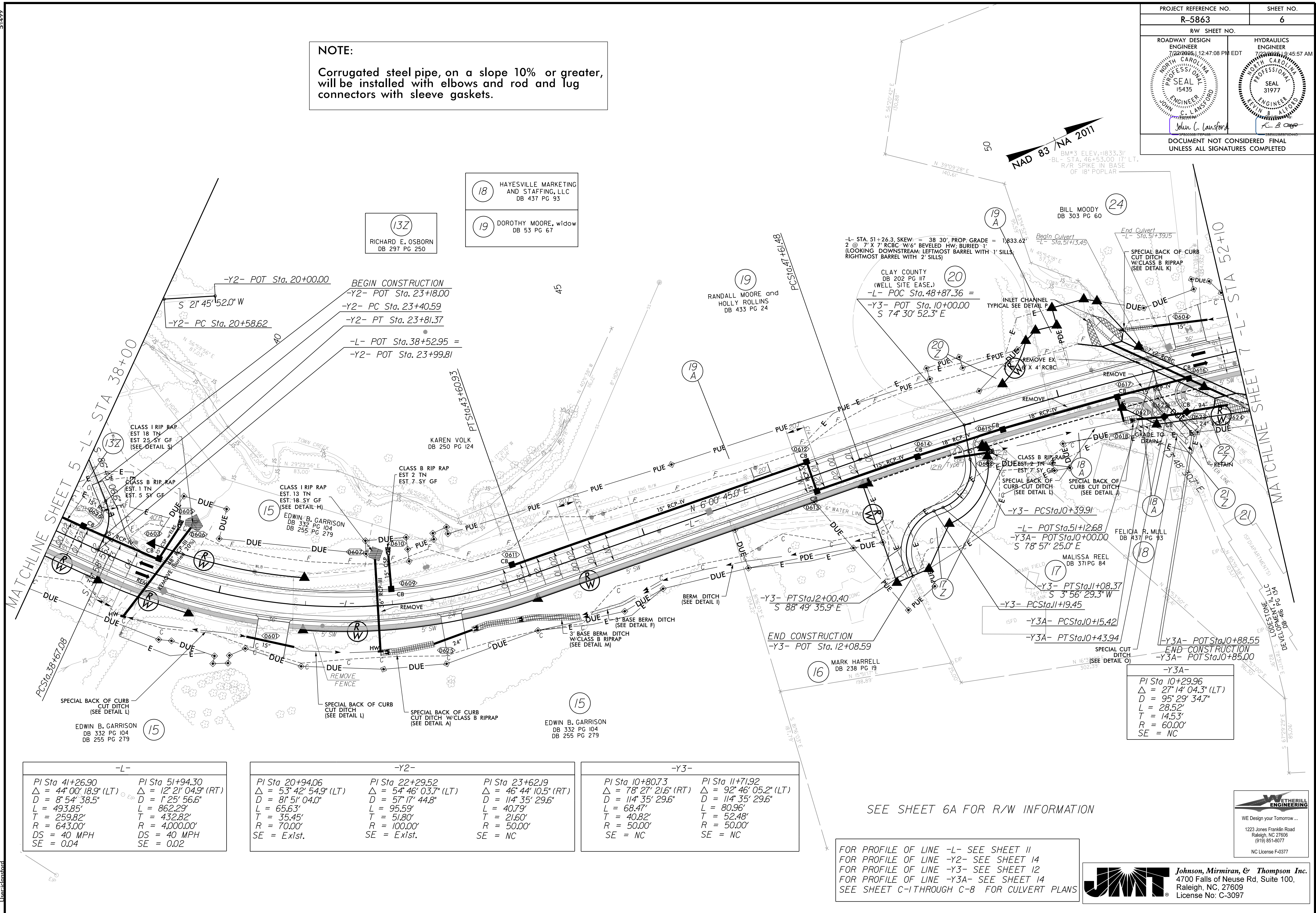
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5/14/25

6/10/2025 11:15:12 AM
User: jcm1000

NOTE:
Corrugated steel pipe, on a slope 10% or greater, will be installed with elbows and rod and lug connectors with sleeve gaskets.

PROJECT REFERENCE NO. R-5863		SHEET NO. 6
RW SHEET NO.		
ROADWAY DESIGN ENGINEER (7/22/2005) 12:47:08 PM EDT NORTH CAROLINA PROFESSIONAL SEAL 15435 JOHN C. LAUSFORD	HYDRAULICS ENGINEER (7/22/2005) 9:45:57 AM PDT NORTH CAROLINA PROFESSIONAL SEAL 31977 KYLE B. ALFORD	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



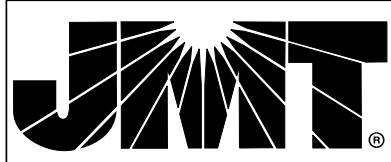
-L-	
PI Sta 41+26.90	PI Sta 51+94.30
$\Delta = 44^{\circ}00'18.9"$ (LT)	$\Delta = 12^{\circ}21'04.9"$ (RT)
D = 8'54'38.5"	D = 1'25'56.6"
L = 493.85'	L = 862.29'
T = 259.82'	T = 432.82'
R = 643.00'	R = 4,000.00'
DS = 40 MPH	DS = 40 MPH
SE = 0.04	SE = 0.02

-Y2-		
PI Sta 20+94.06	PI Sta 22+29.52	PI Sta 23+62.19
$\Delta = 53^{\circ}42'54.9"$ (LT)	$\Delta = 54^{\circ}46'03.7"$ (LT)	$\Delta = 46^{\circ}44'10.5"$ (RT)
D = 8'51'04.0"	D = 57'17'44.8"	D = 114'35'29.6"
L = 65.63'	L = 95.59'	L = 40.79'
T = 35.45'	T = 51.80'	T = 21.60'
R = 70.00'	R = 100.00'	R = 50.00'
SE = Ex'st.	SE = Ex'st.	SE = NC

-Y3-	
PI Sta 10+80.73	PI Sta 11+71.92
$\Delta = 78^{\circ}27'21.6"$ (RT)	$\Delta = 92^{\circ}46'05.2"$ (LT)
D = 114'35'29.6"	D = 114'35'29.6"
L = 68.47'	L = 80.96'
T = 40.82'	T = 52.48'
R = 50.00'	R = 50.00'
SE = NC	SE = NC

SEE SHEET 6A FOR R/W INFORMATION

FOR PROFILE OF LINE -L- SEE SHEET 11
FOR PROFILE OF LINE -Y2- SEE SHEET 14
FOR PROFILE OF LINE -Y3- SEE SHEET 12
FOR PROFILE OF LINE -Y3A- SEE SHEET 14
SEE SHEET C-1 THROUGH C-8 FOR CULVERT PLANS



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PROJECT REFERENCE NO.
R-5863

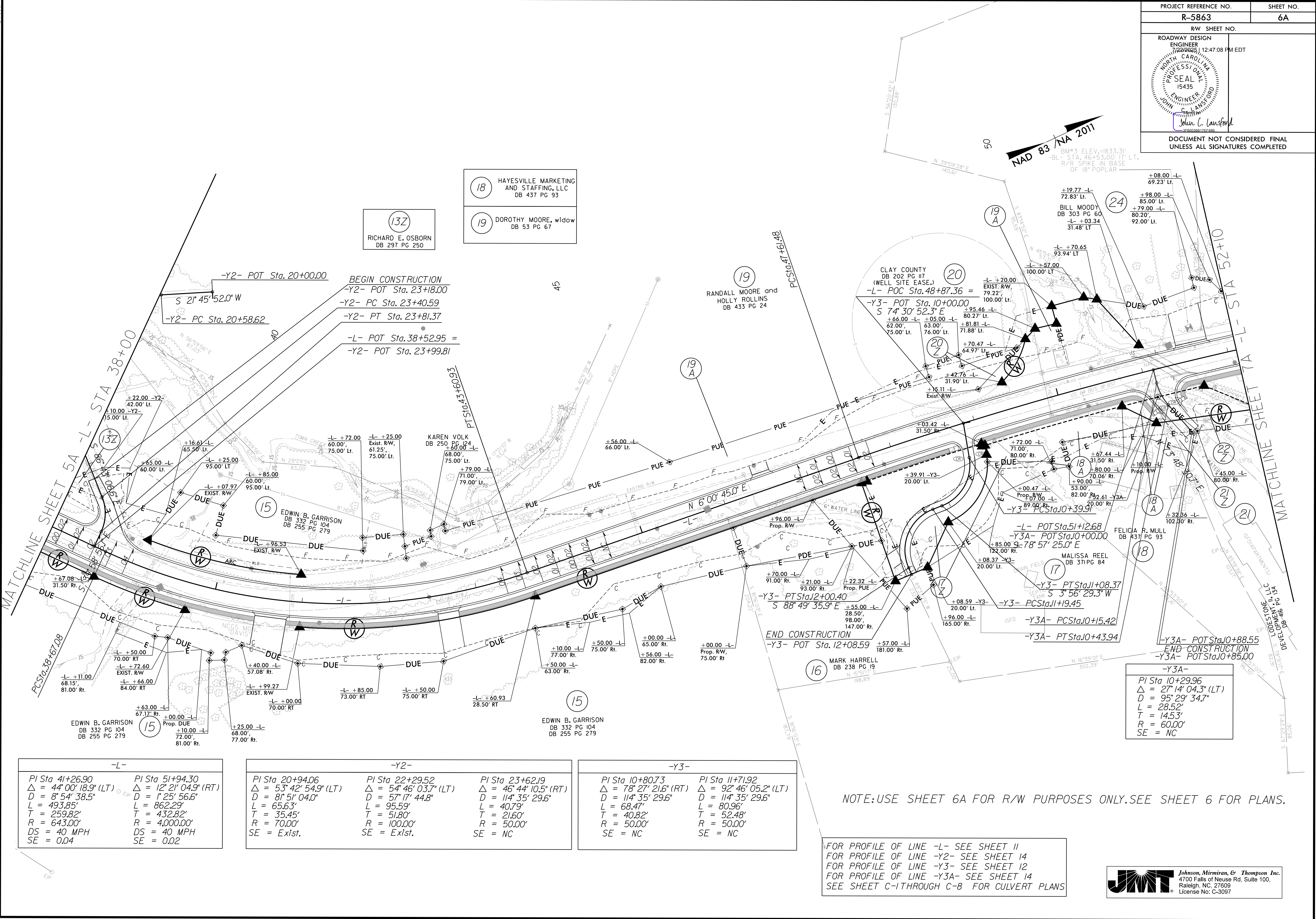
SHEET NO.
6A

RW SHEET NO.

ROADWAY DESIGN
ENGINEER
(72290065) 12:47:08 PM EDT

NORTH CAROLINA
REGISTERED PROFESSIONAL
ENGINEER
15435
JOHN C. LANSFORD
15000817EE488

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



-L-	
PI Sta 41+26.90	PI Sta 51+94.30
$\Delta = 44^{\circ}00'18.9"$ (LT)	$\Delta = 12^{\circ}21'04.9"$ (RT)
D = 8' 54' 38.5"	D = 1' 25' 56.6"
L = 493.85'	L = 862.29'
T = 259.82'	T = 432.82'
R = 643.00'	R = 4,000.00'
DS = 40 MPH	DS = 40 MPH
SE = 0.04	SE = 0.02

-Y2-	
PI Sta 20+94.06	PI Sta 22+29.52
$\Delta = 53^{\circ}42'54.9"$ (LT)	$\Delta = 54^{\circ}46'03.7"$ (LT)
D = 8' 51' 04.0"	D = 57' 17' 44.8"
L = 65.63'	L = 95.59'
T = 35.45'	T = 51.80'
R = 70.00'	R = 100.00'
SE = Exist.	SE = Exist.

-Y3-	
PI Sta 10+80.73	PI Sta 11+71.92
$\Delta = 78^{\circ}27'21.6"$ (RT)	$\Delta = 92^{\circ}46'05.2"$ (LT)
D = 114' 35' 29.6"	D = 114' 35' 29.6"
L = 68.47'	L = 80.96'
T = 40.82'	T = 52.48'
R = 50.00'	R = 50.00'
SE = NC	SE = NC

NOTE: USE SHEET 6A FOR R/W PURPOSES ONLY. SEE SHEET 6 FOR PLANS.

FOR PROFILE OF LINE -L- SEE SHEET 11
FOR PROFILE OF LINE -Y2- SEE SHEET 14
FOR PROFILE OF LINE -Y3- SEE SHEET 12
FOR PROFILE OF LINE -Y3A- SEE SHEET 14
SEE SHEET C-1 THROUGH C-8 FOR CULVERT PLANS

51499
6/24/2025 8:00:27 AM
User: Roemer
6242025_8:00:27 AM
Sheet: R-5863_psh_07.dgn

-L-		
PI Sta 51+94.30 $\Delta = 12' 21'' 04.9''$ (RT) $D = 1' 25' 56.6''$ $L = 862.29'$ $T = 432.82'$ $R = 4,000.00'$ $DS = 40$ MPH $SE = 0.02$	PI Sta 59+54.50 $\Delta = 22' 05' 36.9''$ (RT) $D = 3' 49' 11.0''$ $L = 578.41'$ $T = 292.84'$ $R = 1,500.00'$ $DS = 40$ MPH $SE = 0.03$	PI Sta 63+10.99 $\Delta = 31' 40' 33.6''$ (LT) $D = 22' 55' 05.9''$ $L = 138.21'$ $T = 70.92'$ $R = 250.00'$ $DS = 25$ MPH $SE = RC$

-Y4-
PI Sta 42+90.14 $\Delta = 16' 15' 10.2''$ (RT) $D = 57' 17' 44.8''$ $L = 28.37'$ $T = 14.28'$ $R = 100.00'$

30
JENNIFER ANN CARTER
and HUSBAND
MARK A. CARTER
DB 464 PG 258

32
JASON D. BELCHER
DB 469 PG 8

31
KATHY HENSON
DB 305 PG 105
DB 266 PG 152
DB 266 PG 154

31A
KATHY HENSON
DB 305 PG 105
DB 266 PG 152
DB 266 PG 154

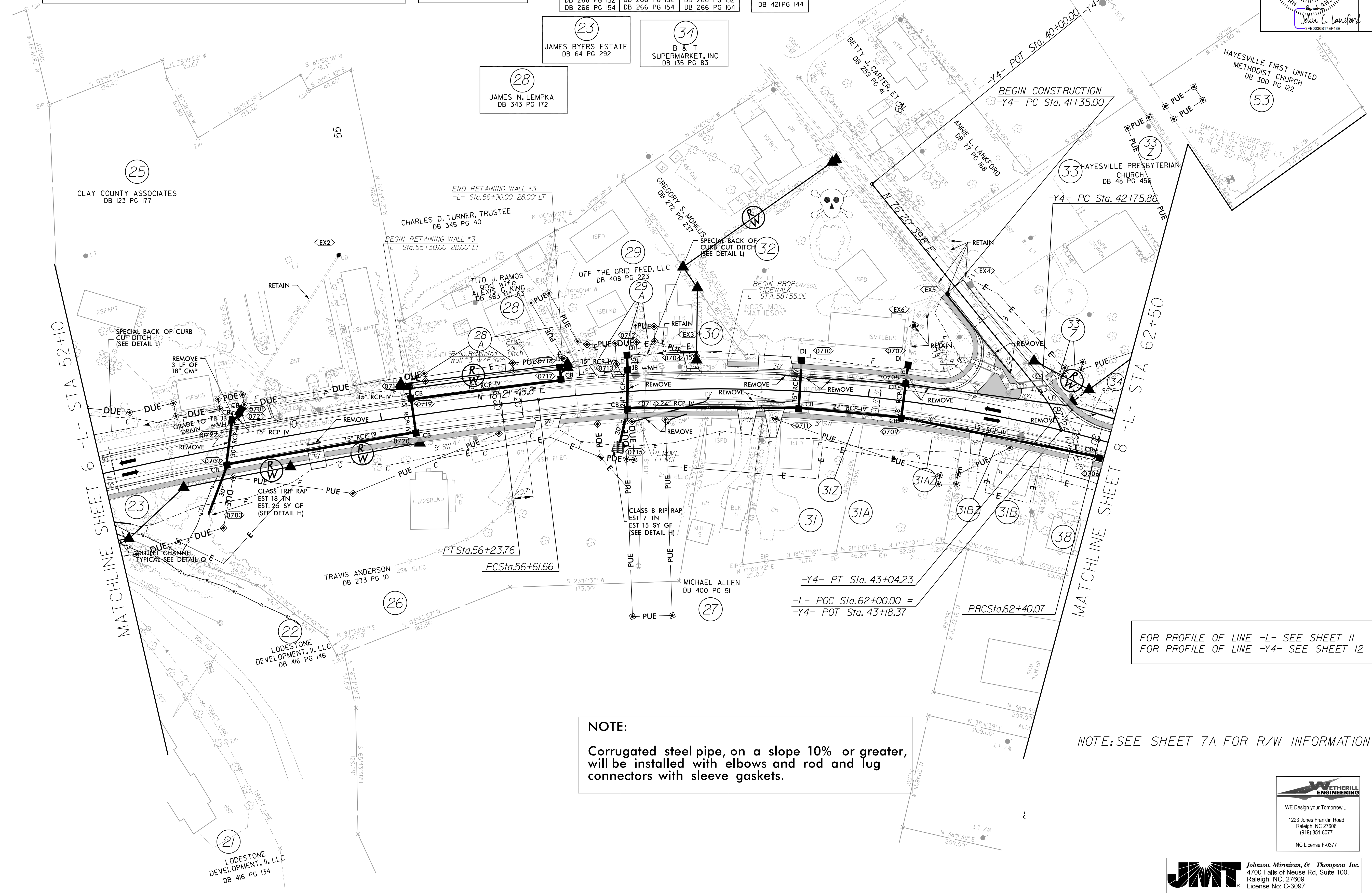
31B
KATHY HENSON
DB 305 PG 105
DB 266 PG 152
DB 266 PG 154

38
ROSELYN HUNT
DB 421 PG 144

23
JAMES BYERS ESTATE
DB 64 PG 292

34
B & T
SUPERMARKET, INC
DB 135 PG 83

28
JAMES N. LEMPKA
DB 343 PG 172



PROJECT REFERENCE NO.	SHEET NO.
R-5863	7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 15435 JOHN C. LAWSON 7/22/2025 12:47:08 PM EDT	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 31977 KEVIN B. ALFORD 7/22/2025 9:45:57 AM PDT

NOTE:
Corrugated steel pipe, on a slope 10% or greater, will be installed with elbows and rod and lug connectors with sleeve gaskets.

NOTE: SEE SHEET 7A FOR R/W INFORMATION

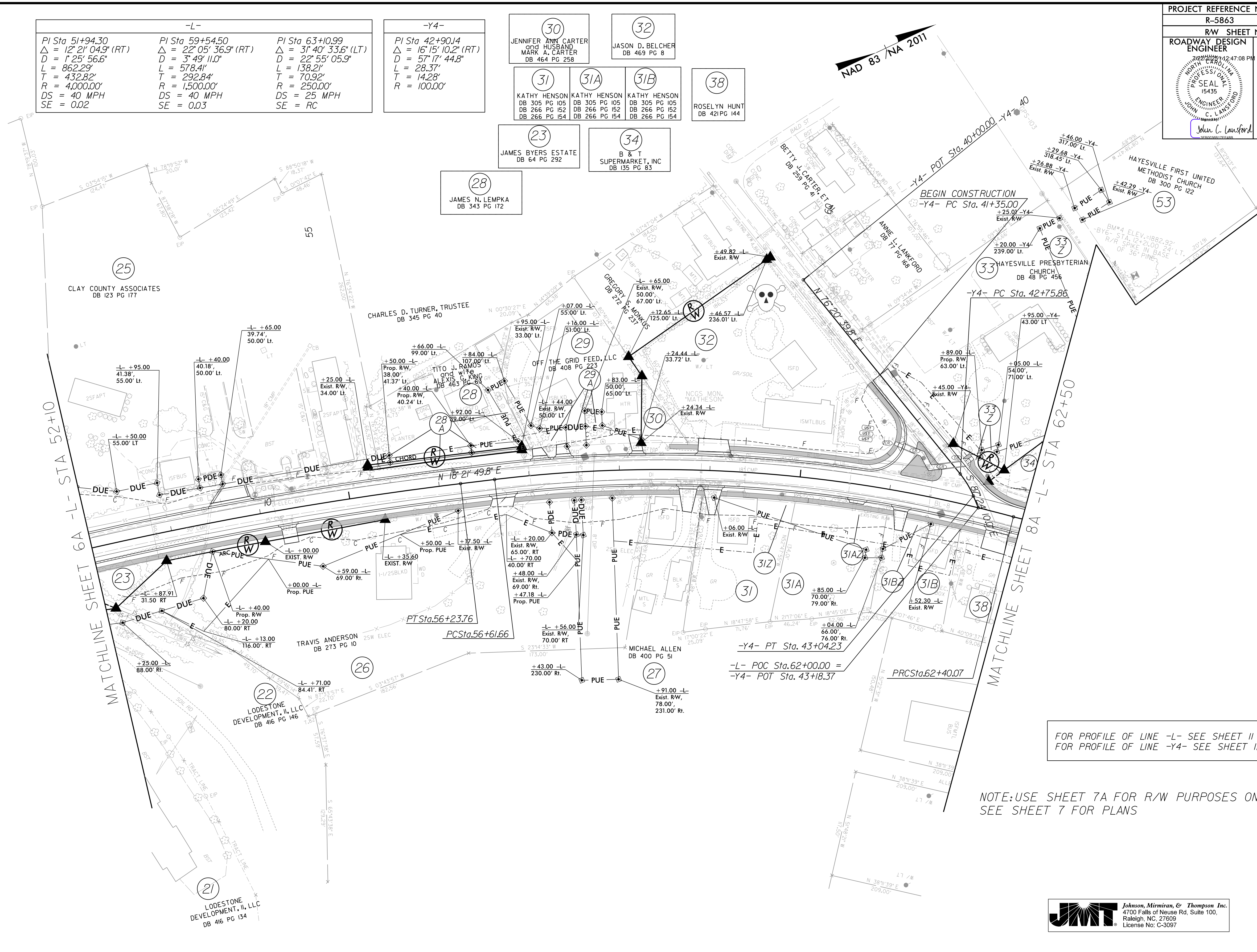
FOR PROFILE OF LINE -L- SEE SHEET 11
FOR PROFILE OF LINE -Y4- SEE SHEET 12

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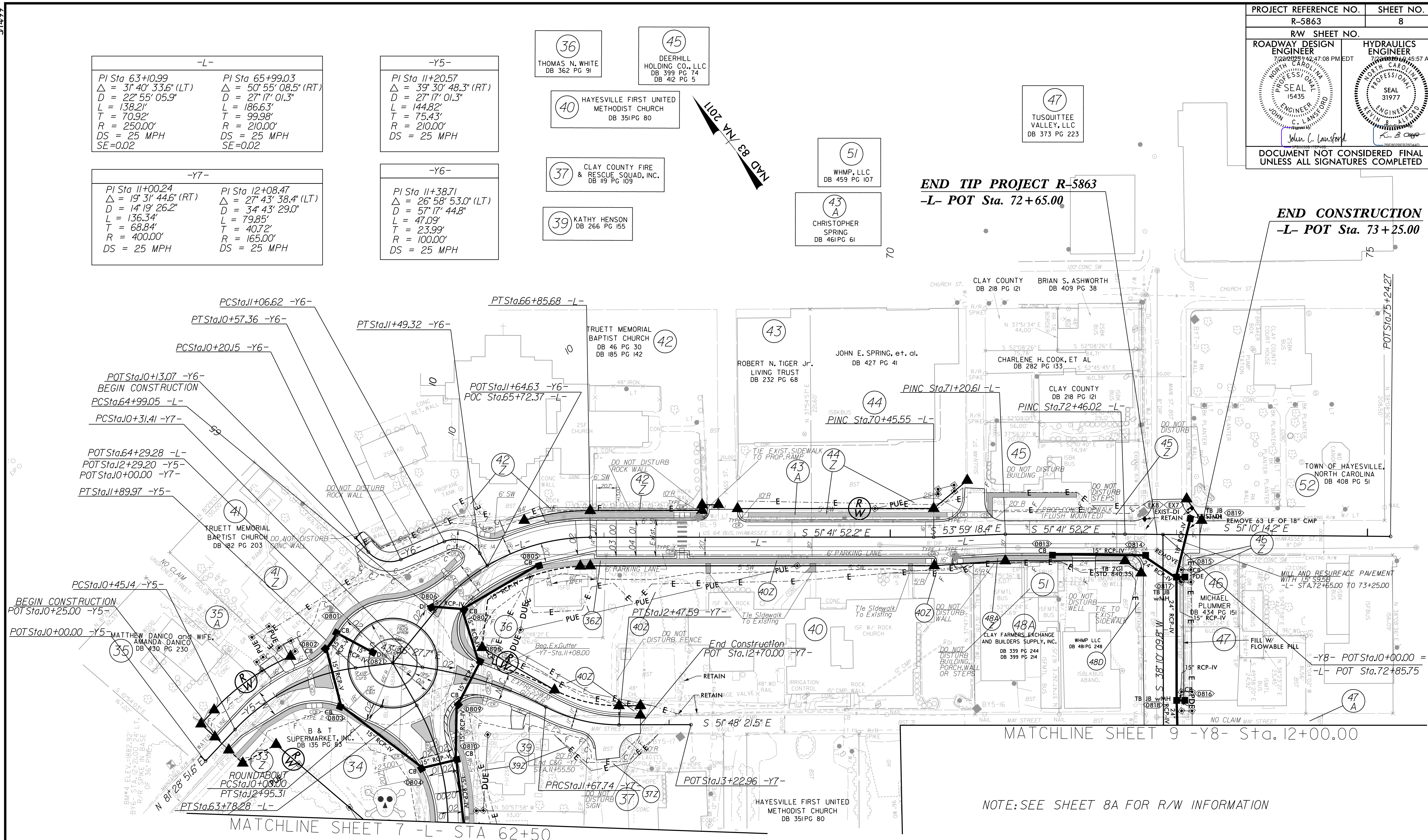
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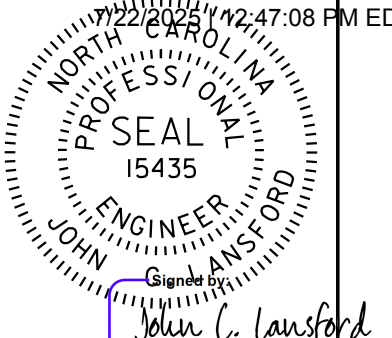
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PROJECT REFERENCE NO.	SHEET NO.
R-5863	8A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
	
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-L-	
PI Sta 63+10.99 Δ = 31' 40" 33.6" (LT) D = 22' 55" 05.9" L = 138.21' T = 70.92' R = 250.00' DS = 25 MPH SE=0.02	PI Sta 65+99.03 Δ = 50' 55' 08.5" (RT) D = 27' 17' 01.3" L = 186.63' T = 99.98' R = 210.00' DS = 25 MPH SE=0.02

-Y5-	
PI Sta 11+20.57 Δ = 39' 30' 48.3" (RT) D = 27' 17' 01.3" L = 144.82' T = 75.43' R = 210.00' DS = 25 MPH	

-Y7-	
PI Sta 11+00.24 Δ = 19' 31' 44.6" (RT) D = 14' 19' 26.2" L = 136.34' T = 68.84' R = 400.00' DS = 25 MPH	PI Sta 12+08.47 Δ = 27' 43' 38.4" (LT) D = 34' 43' 29.0" L = 79.85' T = 40.72' R = 165.00' DS = 25 MPH

-Y6-	
PI Sta 11+38.71 Δ = 26' 58' 53.0" (LT) D = 57' 17' 44.8" L = 47.09' T = 23.99' R = 100.00' DS = 25 MPH	

36
THOMAS N. WHITE
DB 362 PG 91

45
DEERHILL
HOLDING CO., LLC
DB 399 PG 74
DB 412 PG 5

40
HAYESVILLE FIRST UNITED
METHODIST CHURCH
DB 351 PG 80

37
CLAY COUNTY FIRE
& RESCUE SQUAD, INC.
DB 119 PG 109

39
KATHY HENSON
DB 266 PG 155

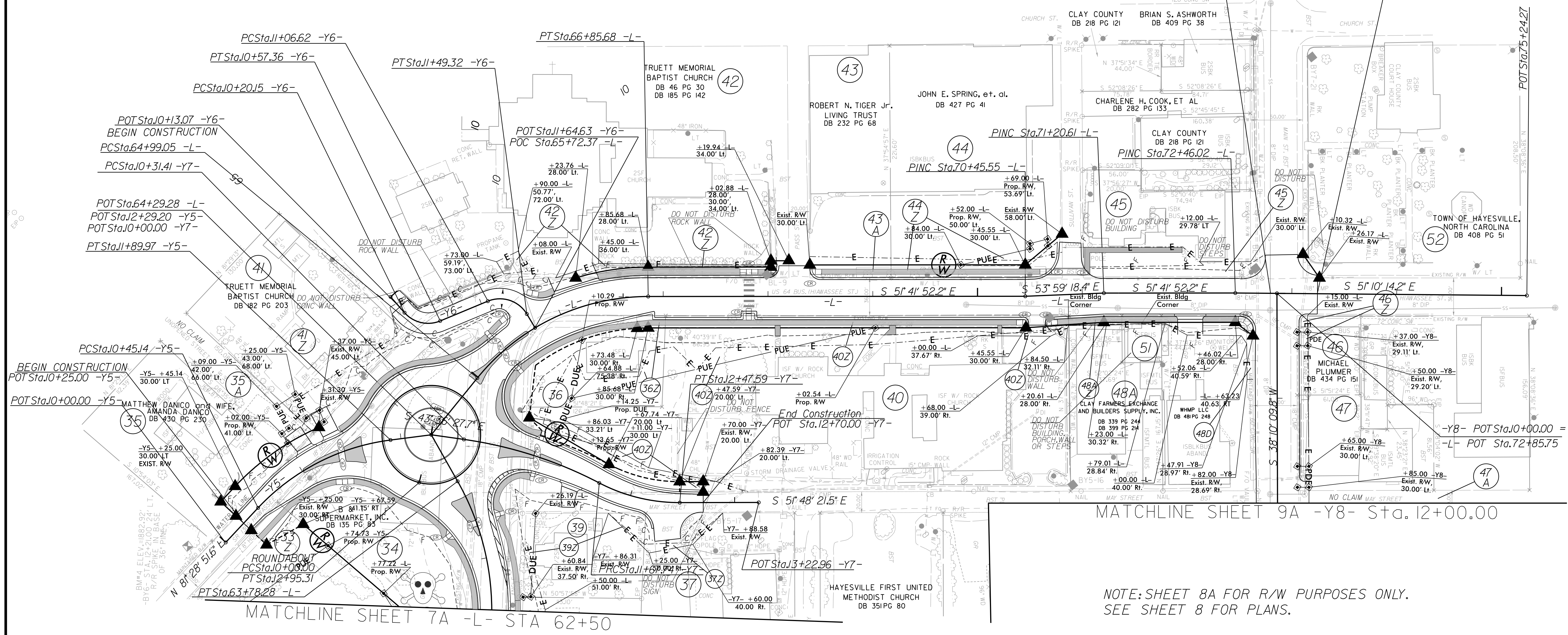
51
WHMP, LLC
DB 459 PG 107

43
CHRISTOPHER
SPRING
DB 461 PG 61

47
TUSQUITTEE
VALLEY, LLC
DB 373 PG 223

END TIP PROJECT R-5863
-L- POT Sta. 72+65.00

END CONSTRUCTION
-L- POT Sta. 73+25.00

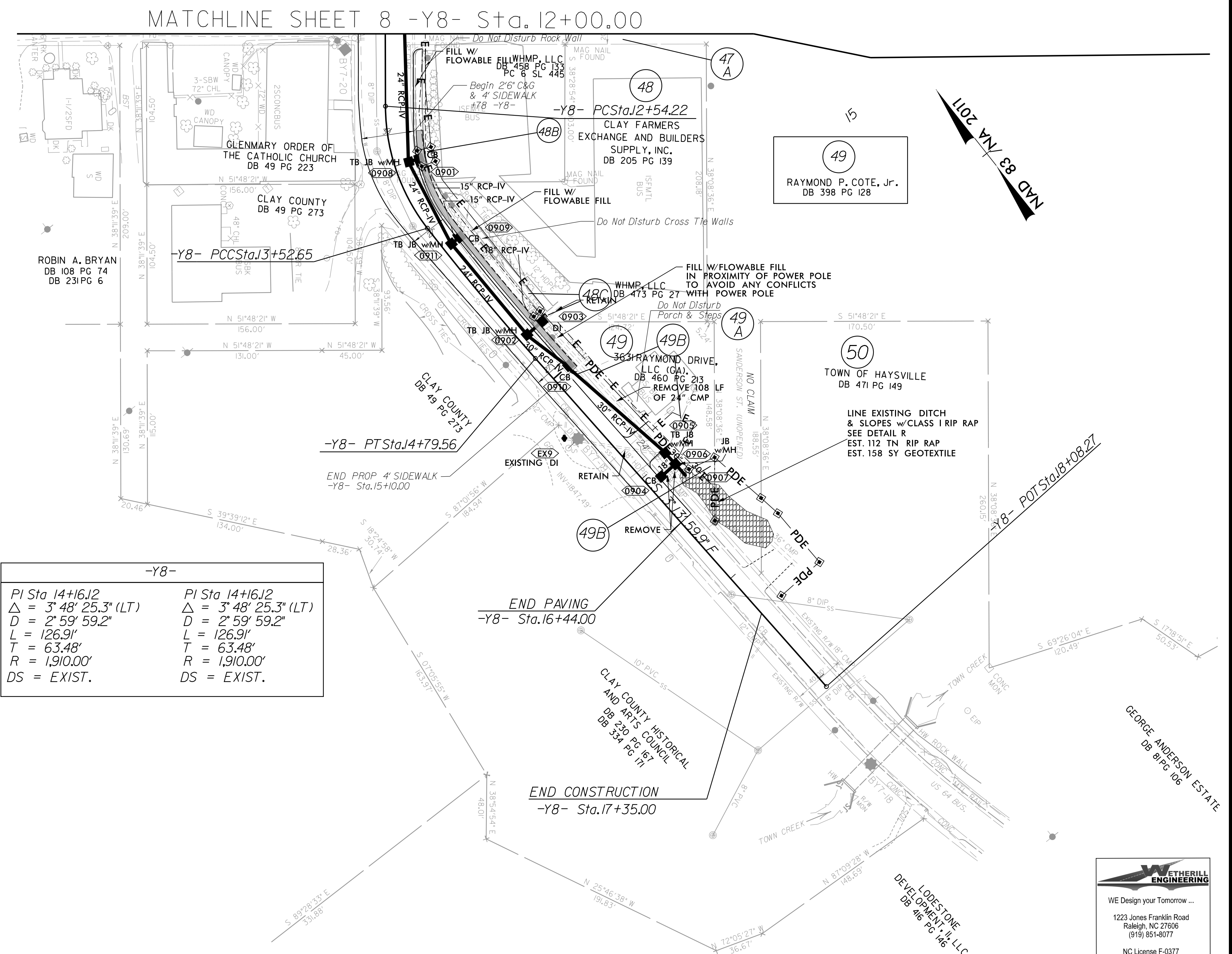


FOR PROFILE OF LINE -L- SEE SHEET 12
FOR PROFILE OF LINE -Y5- SEE SHEET 13
FOR PROFILE OF LINE -Y6- SEE SHEET 13
FOR PROFILE OF LINE -Y7- SEE SHEET 13
FOR PROFILE OF -RAB- SEE SHEET 13
FOR ROUNDABOUT DETAIL SEE SHEET 2B-1

5/14/99

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PROJECT REFERENCE NO. <i>R-5863</i>		SHEET NO. <i>9</i>
RW SHEET NO.		
ROADWAY DESIGN ENGINEER (202026) 12:47:08 PM EDT NORTH CAROLINA PROFESSIONAL SEAL 15435 JOHN C. LAUSFORD	HYDRAULICS ENGINEER (202026) 12:45:57 AM EDT NORTH CAROLINA PROFESSIONAL SEAL 31977 K. B. COTE, JR.	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



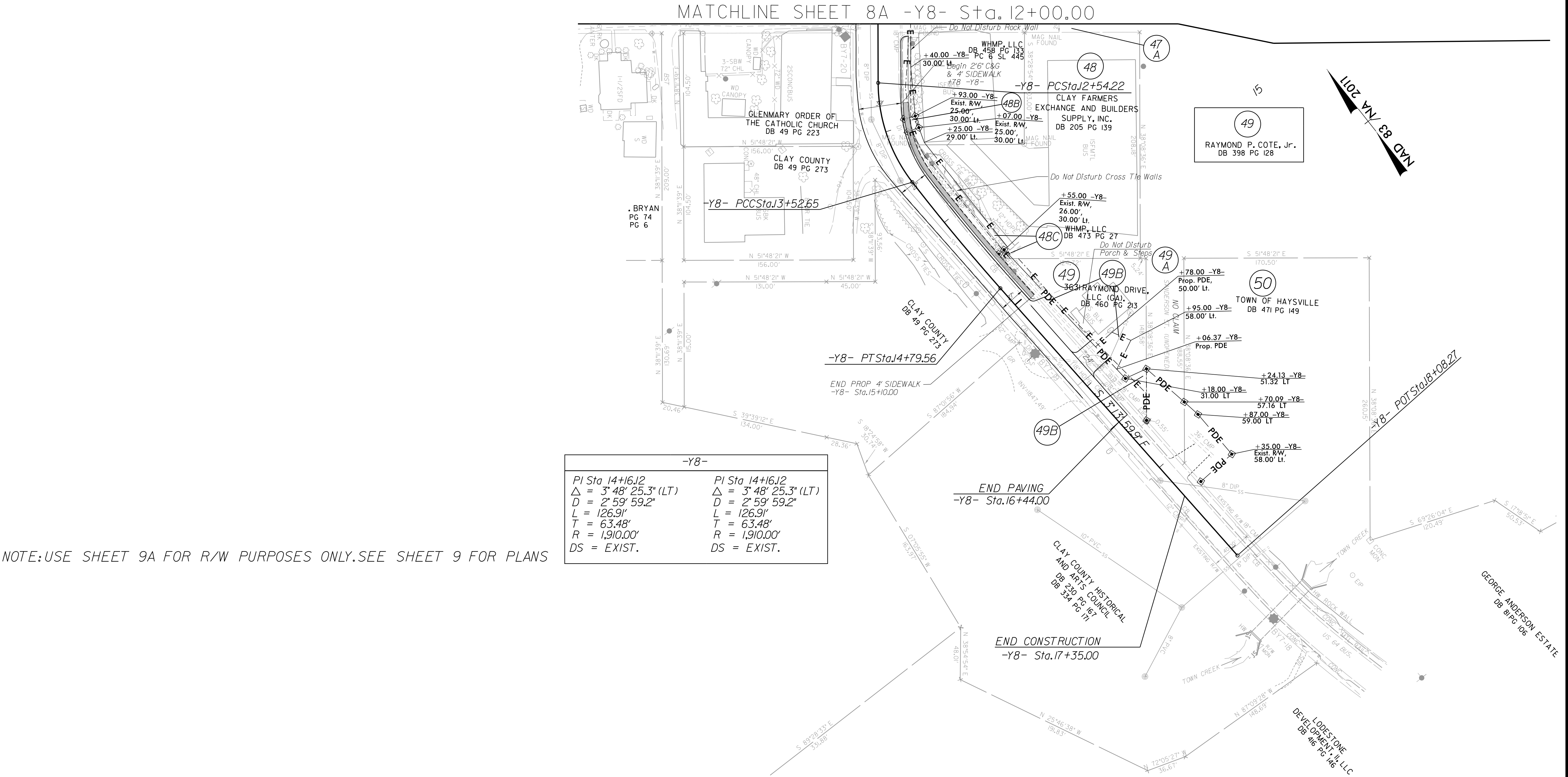
NOTE: SEE SHEET 9A FOR R/W INFORMATION

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5/14/99

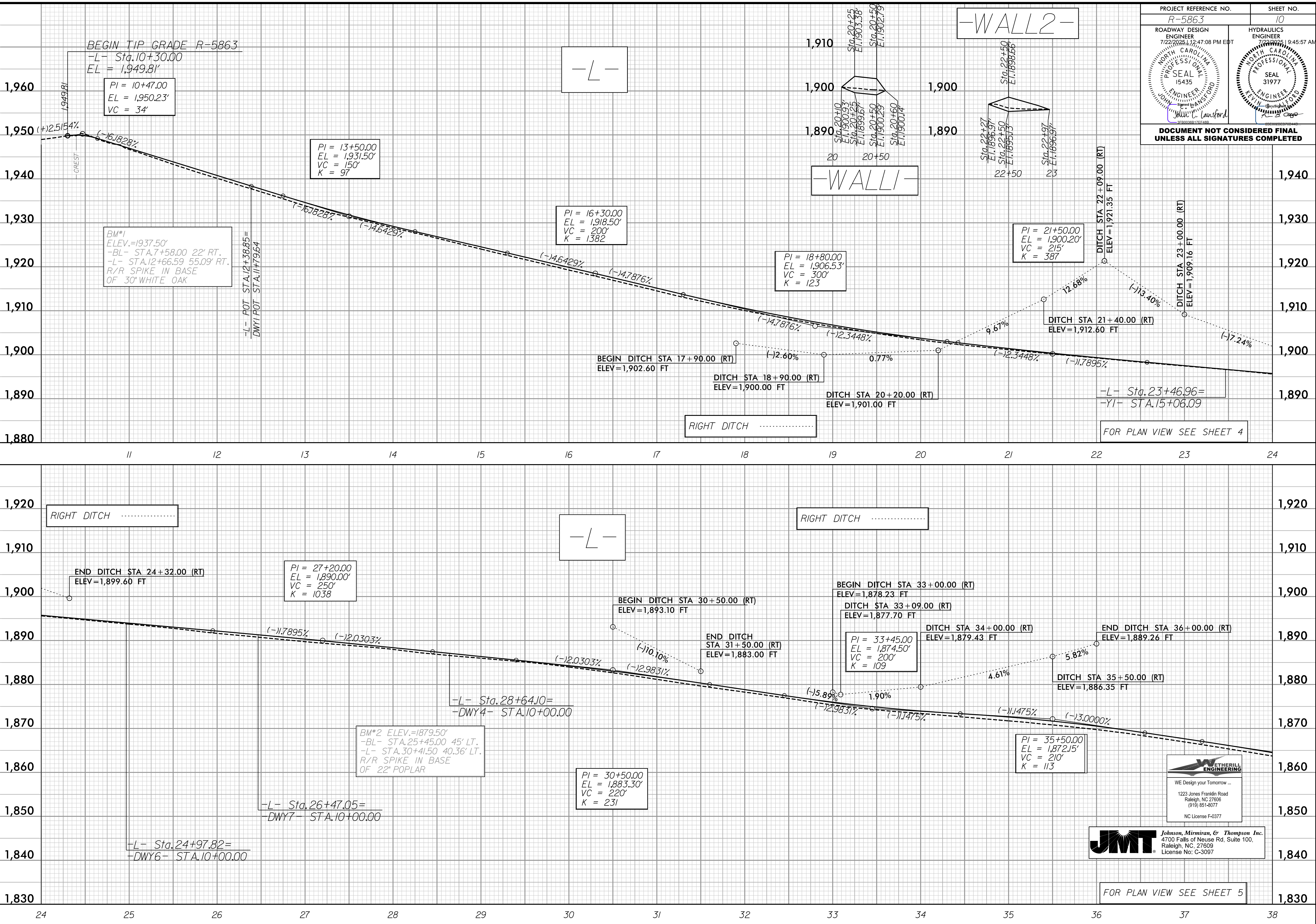
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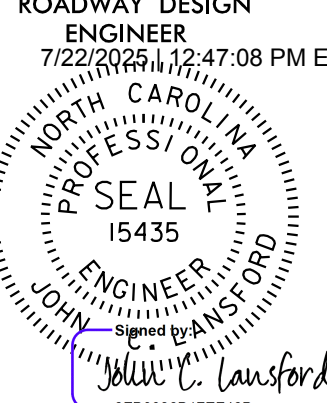
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R-5863		9A	
RW SHEET NO.			
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NORTH CAROLINA PROFESSIONAL SEAL 15435			
JOHN C. LANSFORD			
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5/28/2005

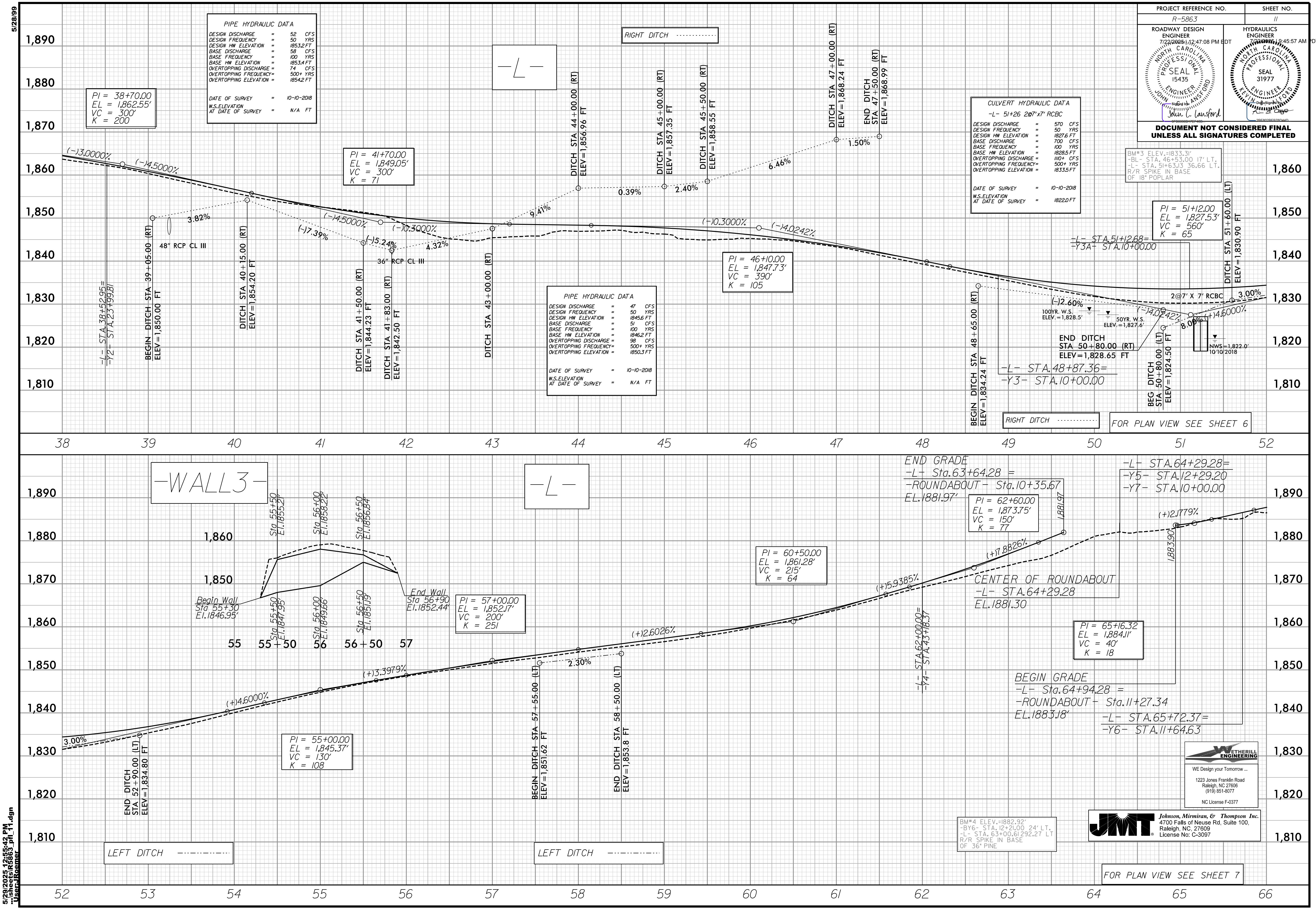
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PROJECT REFERENCE NO.		SHEET NO.
R-5863		10
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PROJECT REFERENCE NO.		SHEET NO.
R-5863		11
ROADWAY DESIGN ENGINEER 7/22/2015 11:47:08 PM EDT	HYDRAULICS ENGINEER 7/22/2015 9:45:57 AM EDT	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

BM#3 ELEV.=1833.31'
-BL- STA. 46+53.00 17' LT.
-L- STA. 51+63.13 36.66 LT.
R/R SPIKE IN BASE
OF 18' POPLAR

$PI = 51+12.00$
 $EL = 1,827.53'$
 $VC = 560'$
 $K = 65$

-L- STA. 51+12.88=
-Y3A- STA. 10+00.00

2@7' X 7' RCBC

100YR. W.S.
ELEV.=1,828.5'

50YR. W.S.
ELEV.=1,827.6'

END DITCH
STA. 50+80.00 (RT)
ELEV.=1,828.65 FT

BEG DITCH
STA. 50+80.00 (LT)
ELEV.=1,824.50 FT

NWS=1,822.0'
10/10/2018

3.00%

FOR PLAN VIEW SEE SHEET 6

END GRADE
-L- Sta. 63+64.28 =
-ROUNDABOUT- Sta. 10+35.67
EL. 1881.97'

$PI = 62+60.00$
 $EL = 1,873.75'$
 $VC = 150'$
 $K = 77$

CENTER OF ROUNDABOUT
-L- STA. 64+29.28
EL. 1881.30

$PI = 65+16.32$
 $EL = 1,884.11'$
 $VC = 40'$
 $K = 18$

BEGIN GRADE
-L- Sta. 64+94.28 =
-ROUNDABOUT- Sta. 11+27.34
EL. 1883.18'

-L- STA. 65+72.37=
-Y6- STA. 11+64.63

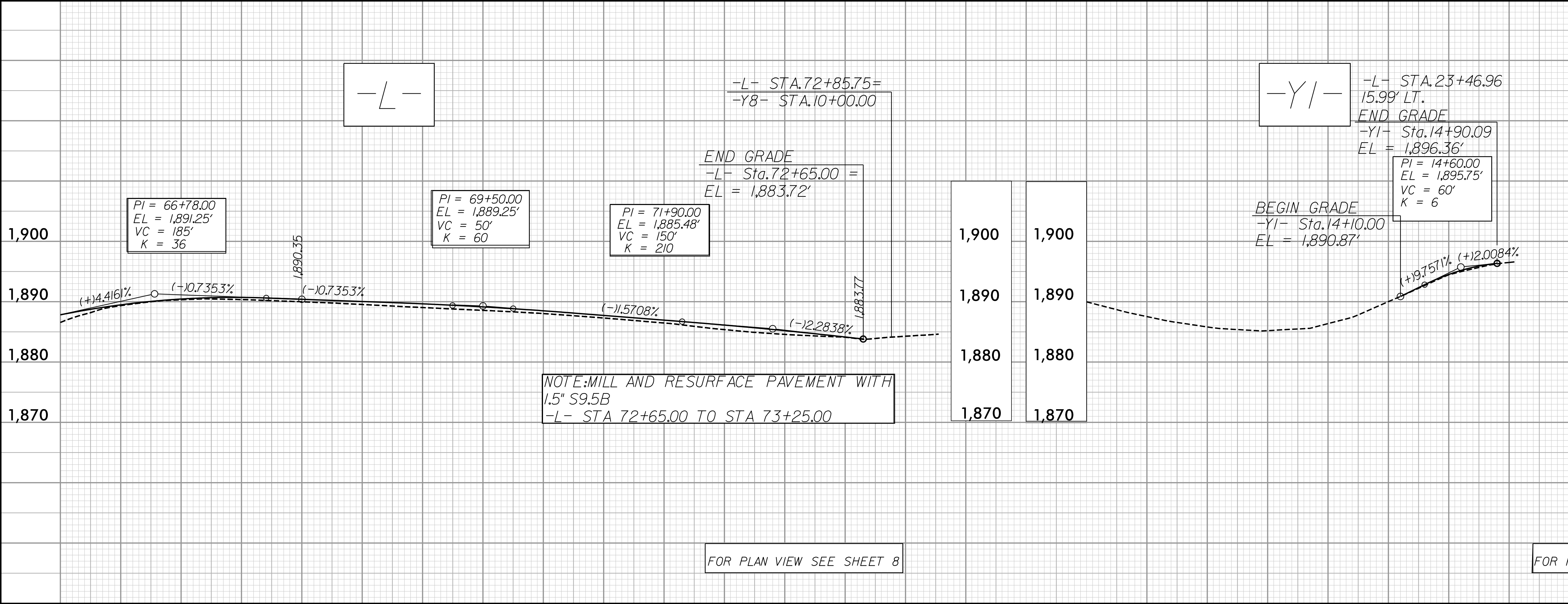
BM#4 ELEV.=1882.92'
-BY6- STA. 12+21.00 24' LT.
-L- STA. 63+00.61 292.27 LT
R/R SPIKE IN BASE
OF 36' PINE

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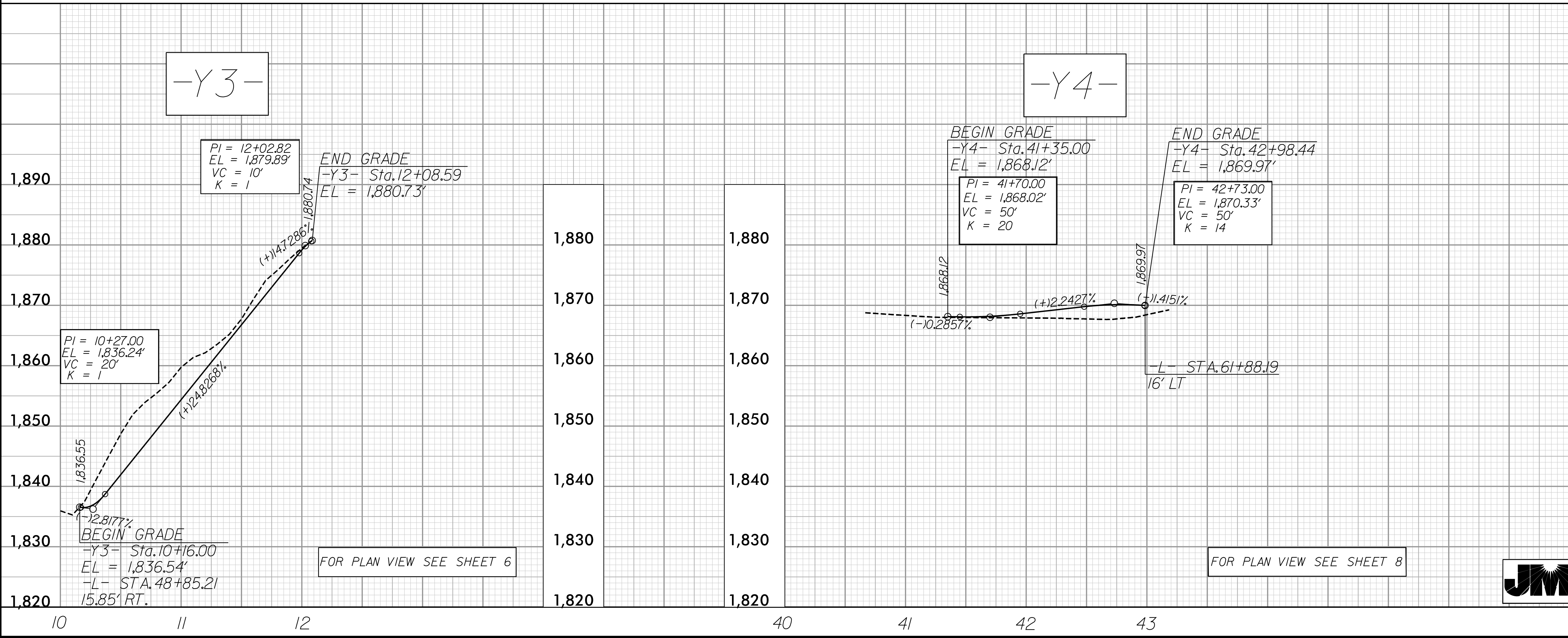
FOR PLAN VIEW SEE SHEET 7

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5/28/99



PROJECT REFERENCE NO. <i>R-5863</i>		SHEET NO. <i>12</i>
ROADWAY DESIGN ENGINEER <i>JOHN C. LANSFORD</i> NORTH CAROLINA PROFESSIONAL SEAL 15435 ENGINEER	HYDRAULICS ENGINEER <i>JOHN C. LANSFORD</i> NORTH CAROLINA PROFESSIONAL SEAL 31977 ENGINEER	
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5/28/2025

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