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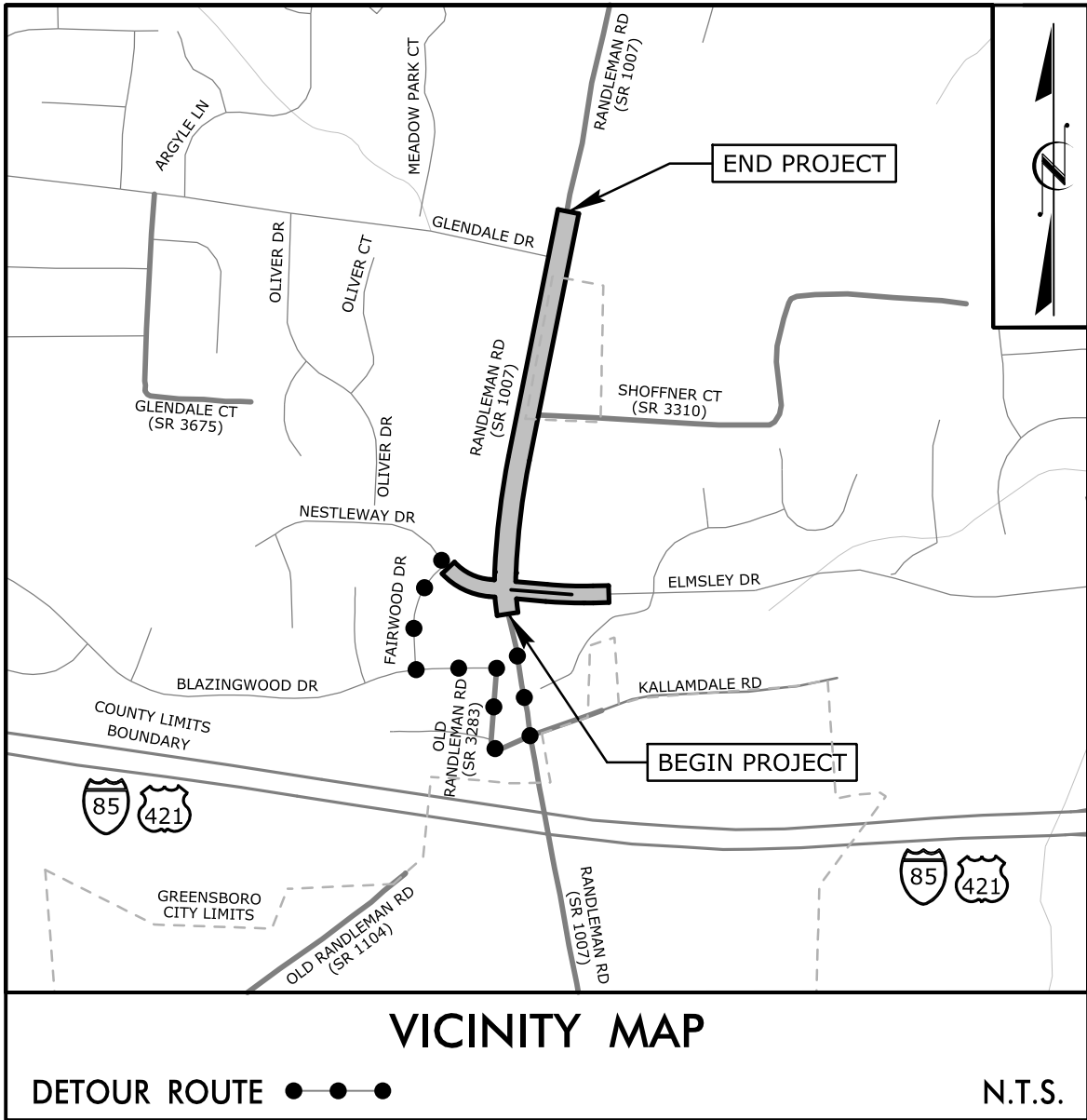
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TIP PROJECT : U-5850

CONTRACT: DG00636

See Sheet 1A For Index of Sheets
See Sheet 1B For Standard Symbology Sheet



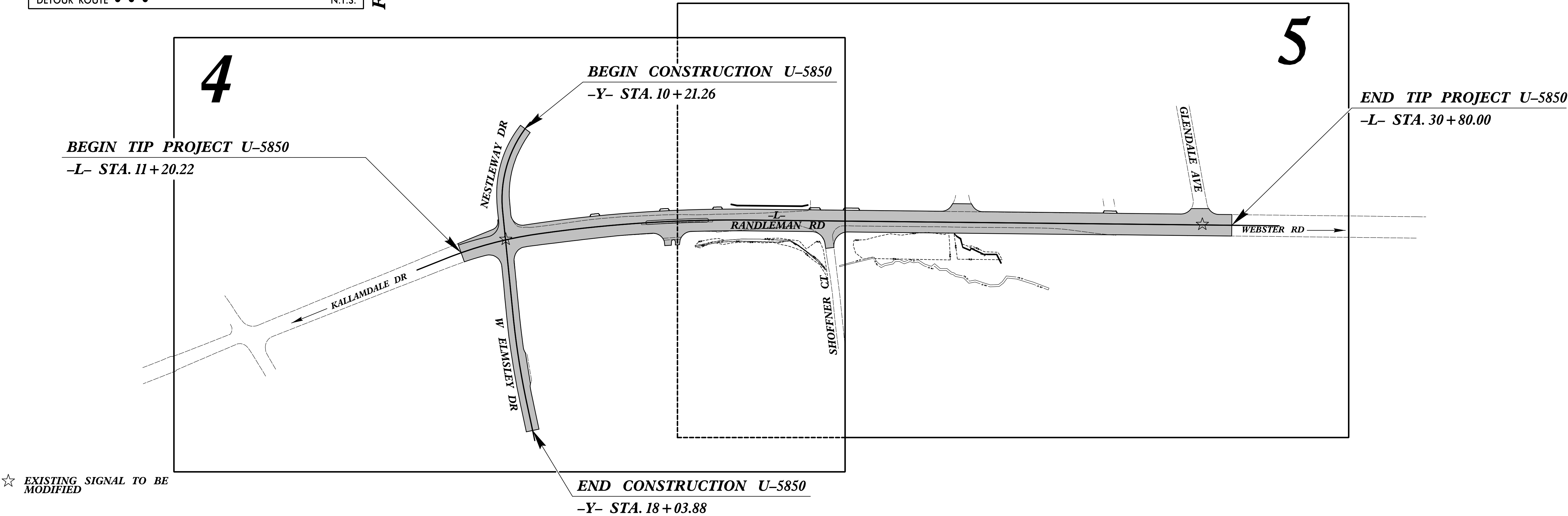
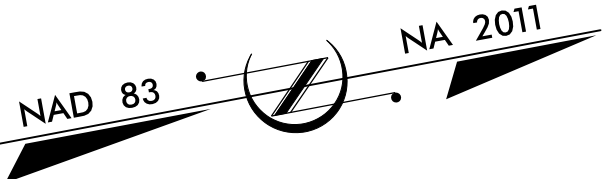
FINAL PLANS

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

GUILFORD COUNTY

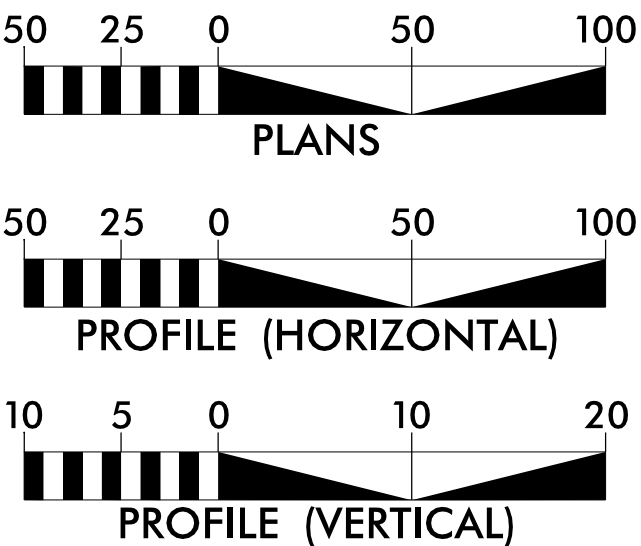
**LOCATION: SR 1007 (RANDLEMAN RD.) FROM ELMSLEY DR.
TO GLENDALE DR. IN GREENSBORO**
**TYPE OF WORK: GRADING, SIGNALS, RETAINING WALL,
PAVING, & DRAINAGE**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5850	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
50239.1.1		PE	
50239.2.1		ROW	
50239.3.1		CONSTRUCTION	



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2025 = 17,025
ADT 2043 = 22,725
DHV = 60%
D = 10%
T = 1%
V = 40 MPH
FUNC. CLASSIFICATION:
MINOR ARTERIAL

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT U-5850 = .371 MILES
TOTAL LENGTH TIP PROJECT U-5850 = .371 MILES

NCDOT CONTACT: SUZANA MATTA, PE
DIVISION 7 PROJECT ENGINEER

PLANS PREPARED FOR THE NCDOT BY:



STV Engineers, Inc.
2151 Hawkins St., Suite 1400
Charlotte, NC 28203
NC License Number F-0991

2024 STANDARD SPECIFICATIONS
RIGHT OF WAY DATE:
JANUARY 10, 2022

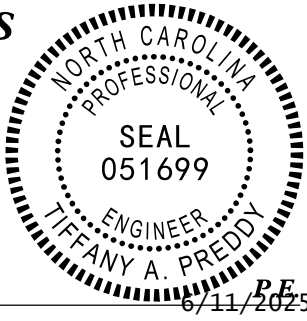
LETTING DATE:
AUGUST 07, 2025

SEAN C. STEPHENS, PE
PROJECT ENGINEER

MAAMOON ABDELAZIZ
PROJECT DESIGNER

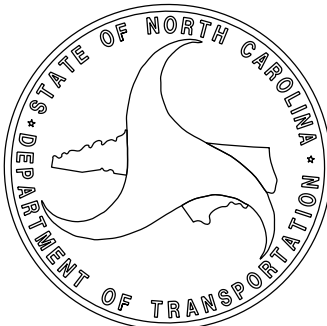
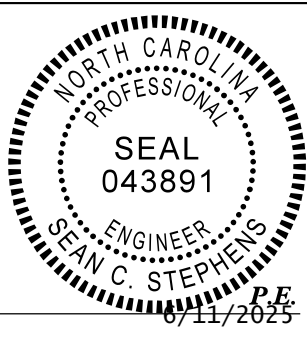
HYDRAULICS
ENGINEER

Signed by:
Tiffany A. Paddy
SIGNATURE:
07/11/2025



ROADWAY
DESIGN
ENGINEER

Signed by:
Sean C. Stephens
SIGNATURE:
08/07/2025



INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
RW01	SURVEY CONTROL TITLE SHEET
RW2C-1 THRU RW2C-3	EXISTING ALIGNMENT CONTROL SHEETS
RW2D-1	PROPOSED ALIGNMENT CONTROL SHEET
RW2E-1 THRU RW05	RIGHT OF WAY CONTROL SHEET
2A-1	TYPICAL SECTION
2B-1 THRU 2B-2	INTERSECTION DETAIL SHEETS
2C-1	HANDRAIL DETAIL
3B-1	EARTHWORK SUMMARY SHEET
3D-1 THRU 3D-2	DRAINAGE SUMMARY SHEETS
3G-1	GEOTECHNICAL SUMMARIES
3P-1	PARCEL INDEX SHEET
4-5	PLAN SHEETS
6	PROFILE SHEET
TMP-1 THRU TMP-17	TRAFFIC MANAGEMENT PLANS
PMP-1 THRU PMP-4	PAVEMENT MARKING PLANS
EC-1 THRU EC-7	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-3	SIGNING PLANS
SIG.1.0 THRU SIG.5.4	SIGNAL PLANS
SCP-1 THRU SCP-7	SIGNAL COMMUNICATIONS PLANS
UC-1 THRU UC-6	UTILITIES CONSTRUCTION PLANS
UO-1 THRU UO-3	UTILITIES BY OTHERS PLAN
W-1 THRU W-2	GRAVITY WALL DETAILS
X-1	CROSS-SECTION EARTHWORK SUMMARY SHEET
X-2 THRU X-18	CROSS-SECTIONS

GENERAL NOTES

GENERAL NOTES:	2024 SPECIFICATIONS EFFECTIVE: 01-16-2024
GRADE LINE: 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 ELEVATIONS 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 II.
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.
DRIVEWAYS:	DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.03 AT LOCATIONS SHOWN ON 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.
UTILITIES:	UTILITY OWNERS ON THIS PROJECT ARE WATER - CITY OF GREENSBORO SANITARY SEWER - CITY OF GREENSBORO POWER - DUKE ENERGY GAS - PIEDMONT NATURAL GAS CATV - SPECTRUM COMMUNICATIONS - AT&T
RIGHT-OF-WAY MARKERS:	ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY THE CONTRACT.
CURB RAMPS:	CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. CONSTRUCT ALL CURB RAMPS ACCORDANCE WITH STD 848.06.

STV

STV Engineers, Inc.
2151 Hawkins St., Suite 1400
Charlotte, NC 28203
NC License Number F-0991

PROJECT REFERENCE NO.

U-5850

SHEET NO.

1A

RW SHEET NO.

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

Seal for T. V. C. STEPHENS, ENGINEER, No. 043891, expires 12/31/2025

Seal for TITANY A. PREDDY, ENGINEER, No. 051699, expires 12/31/2025

DOCUMENT NOT CONSIDERED FINAL
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STANDARD DRAWINGS

NCDOT

2024 ROADWAY ENGLISH STANDARD DRAWINGS EFF. January, 2024

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 II
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
310.02	Parallel Pipe End Section - Precast Concrete Section for 15" to 24" Pipe
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	
838.01	Concrete Endwall for Single and Double Pipe Culverts - 15" thru 48" 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
840.14	Concrete Drop Inlet - 12" thru 30" Pipe
840.15	Brick Drop Inlet - 12" thru 30" Pipe
840.16	Drop Inlet Frame and Grates - for use with Std. 840.14 and 840.15
840.25	Anchorage for Frames - Brick or Concrete or Precast
840.31	Concrete Junction Box - 12" thru 66" Pipe
840.45	Precast Drainage Structure
840.66	Drainage Structure Steps
846.01	Concrete Curb, Gutter and Curb & Gutter
848.01	Concrete Sidewalk
848.03	Driveway Turnout - Drop Curb Type
848.04	Street Turnout
848.06	Curb Ramp
852.01	Concrete Islands
852.06	Method of Placement for Drop Inlets in Concrete Islands
876.02	Guide for Rip Rap at Pipe Outlets

CITY OF GREENSBORO

400-600 SERIES - ROADWAY STANDARD DRAWINGS

STD. NO.	TITLE	EFF. SEPTEMBER 2020
400	4' Diameter Brick Masonry Storm Sewer Manhole	
401	5' Diameter Brick Masonry Storm Sewer Manhole	
413	Standard Manhole Ring and Cover	

6/11/2025
R:\Roadway\Proj\SHU-5850_rdy_psh01a.dgn
ogroves

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS
CONVENTIONAL PLAN SHEET SYMBOLS

PROJECT REFERENCE NO.	SHEET NO.
U-5850	1B

Note: Not to Scale

BOUNDARIES AND PROPERTY:

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	

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	
Sign	
Well	
Small Mine	
Foundation	
Area Outline	
Cemetery	
Building	
School	
Church	
Dam	

HYDROLOGY:

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	

RAILROADS:

Standard Gauge	
RR Signal Milepost	
Switch	
RR Abandoned	
RR Dismantled	

RIGHT OF WAY & PROJECT CONTROL:

Primary Horiz Control Point	
Primary Horiz and Vert Control Point	
Secondary Horiz and Vert Control Point	
Vertical Benchmark	
Existing Right of Way Monument	
Proposed Right of Way Monument (Rebar and Cap)	
Proposed Right of Way Monument (Concrete)	
Existing Permanent Easement Monument	
Proposed Permanent Easement Monument (Rebar and Cap)	
Existing C/A Monument	
Proposed C/A Monument (Rebar and Cap)	
Proposed C/A Monument (Concrete)	
Existing Right of Way Line	
Proposed Right of Way Line	
Existing Control of Access Line	
Proposed Control of Access Line	
Proposed ROW and CA Line	
Existing Easement Line	
Proposed Temporary Construction Easement	
Proposed Temporary Drainage Easement	
Proposed Permanent Drainage Easement	
Proposed Permanent Drainage/Utility Easement	
Proposed Permanent Utility Easement	
Proposed Temporary Utility Easement	
Proposed Aerial Utility Easement	

ROADS AND RELATED FEATURES:

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	
Single Tree	
Single Shrub	

VEGETATION:

Woods Line	
Orchard	
Vineyard	

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	
Bridge Wing Wall, Head Wall and End Wall	
MINOR:	
Head and End Wall	
Pipe Culvert	
Footbridge	
Drainage Box: Catch Basin, DI or JB	
Paved Ditch Gutter	
Storm Sewer Manhole	
Storm Sewer	

UTILITIES:

* SUE – Subsurface Utility Engineering
LOS – Level of Service – A,B,C or D (Accuracy)

POWER:	
Existing Power Pole	
Proposed Power Pole	
Existing Joint Use Pole	
Proposed Joint Use Pole	
Power Manhole	
Power Line Tower	
Power Transformer	
U/G Power Cable Hand Hole	
H-Frame Pole	
U/G Power Line Test Hole (SUE – LOS A)*	
U/G Power Line (SUE – LOS B)*	
U/G Power Line (SUE – LOS C)*	
U/G Power Line (SUE – LOS D)*	

TELEPHONE:

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)*	
U/G Telephone Cable (SUE – LOS C)*	
U/G Telephone Cable (SUE – LOS D)*	
U/G Telephone Conduit (SUE – LOS B)*	
U/G Telephone Conduit (SUE – LOS C)*	
U/G Telephone Conduit (SUE – LOS D)*	
U/G Fiber Optics Cable (SUE – LOS B)*	
U/G Fiber Optics Cable (SUE – LOS C)*	
U/G Fiber Optics Cable (SUE – LOS D)*	

WATER:

Water Manhole	
Water Meter	
Water Valve	
Water Hydrant	
U/G Water Line Test Hole (SUE – LOS A)*	
U/G Water Line (SUE – LOS B)*	
U/G Water Line (SUE – LOS C)*	
U/G Water Line (SUE – LOS D)*	
Above Ground Water Line	

TV:

TV Pedestal	
TV Tower	
U/G TV Cable Hand Hole	
U/G TV Test Hole (SUE – LOS A)*	
U/G TV Cable (SUE – LOS B)*	
U/G TV Cable (SUE – LOS C)*	
U/G TV Cable (SUE – LOS D)*	
U/G Fiber Optic Cable (SUE – LOS B)*	
U/G Fiber Optic Cable (SUE – LOS C)*	
U/G Fiber Optic Cable (SUE – LOS D)*	

GAS:

Gas Valve	
Gas Meter	
U/G Gas Line Test Hole (SUE – LOS A)*	
U/G Gas Line (SUE – LOS B)*	
U/G Gas Line (SUE – LOS C)*	
U/G Gas Line (SUE – LOS D)*	
Above Ground Gas Line	

SANITARY SEWER:

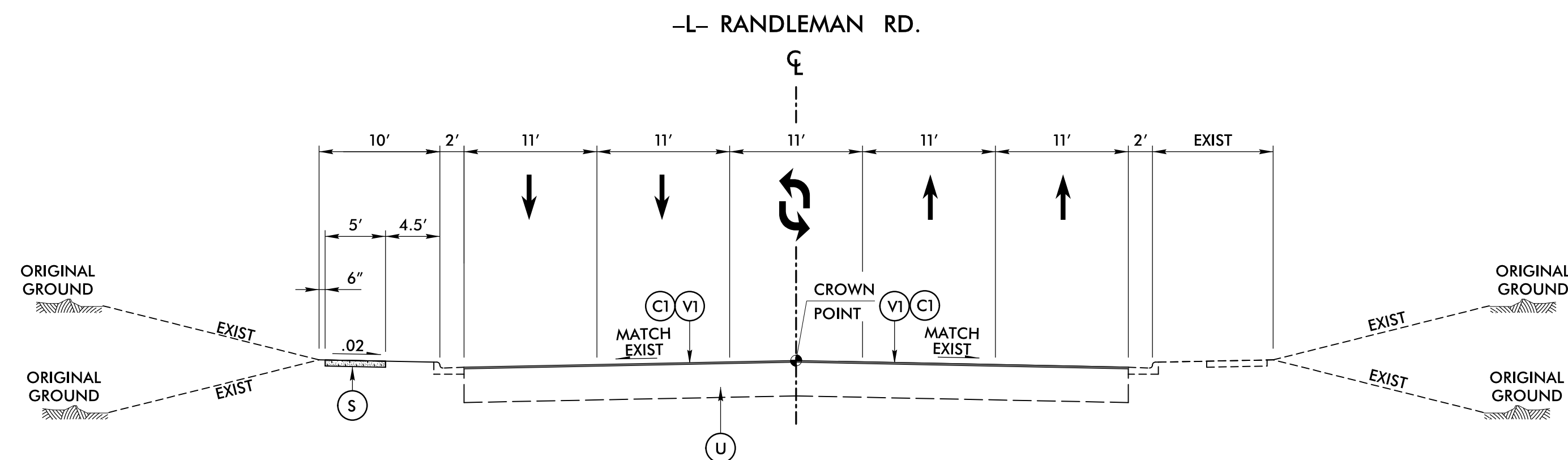
Sanitary Sewer Manhole	
Sanitary Sewer Cleanout	
U/G Sanitary Sewer Line	
Above Ground Sanitary Sewer	
SS Force Main Line Test Hole (SUE – LOS A)*	
SS Force Main Line (SUE – LOS B)*	
SS Force Main Line (SUE – LOS C)*	
SS Force Main Line (SUE – LOS D)*	

MISCELLANEOUS:

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	



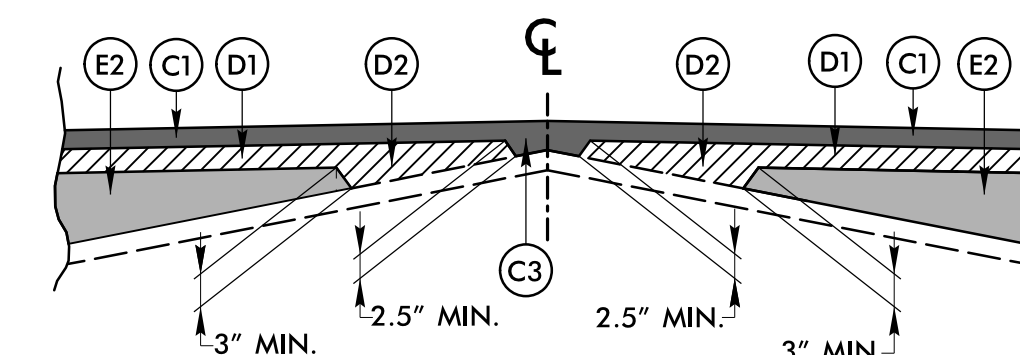
PROJECT REFERENCE NO.		SHEET NO.	
U-5850		2A-1	
ROADWAY DESIGN ENGINEER		PAVEMENT DESIGN ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



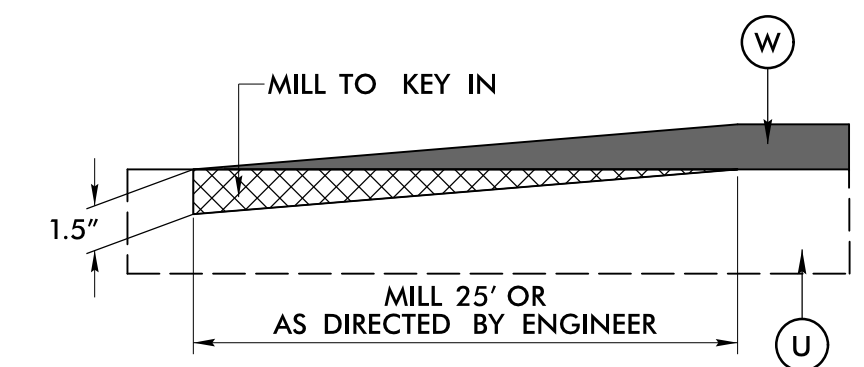
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-L- STA. 11+20.22 TO 12+65.00
-L- STA. 28+00.00 TO 30+80.00

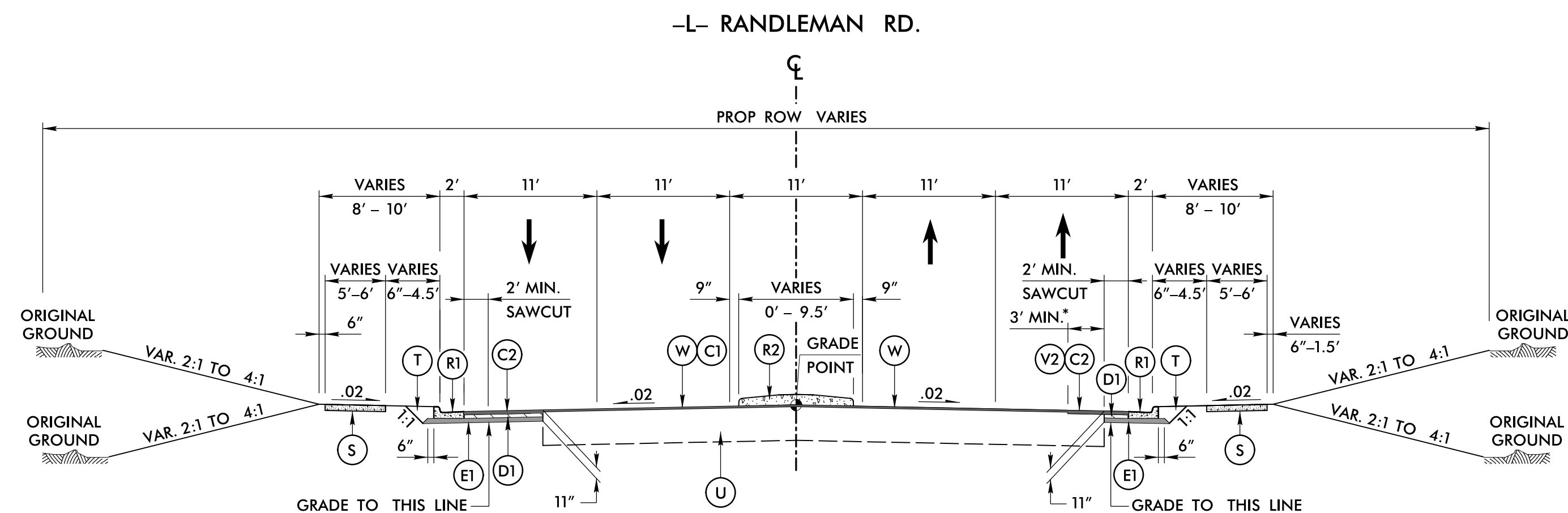
SEE PLANS FOR PROPOSED SIDEWALK LOCATIONS



WEDGING DETAIL



KEY-IN DETAIL
TO BE USED AT ALL TIE-IN LOCATIONS

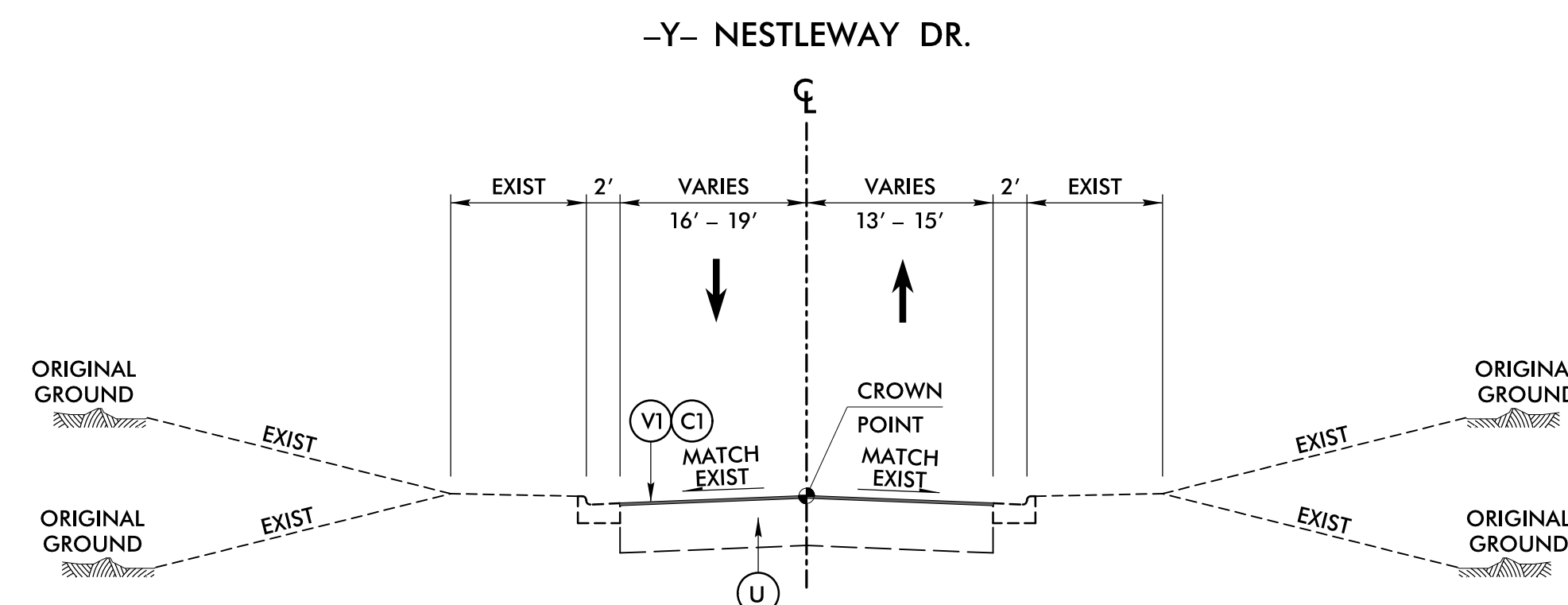


TYPICAL SECTION NO. 2
-L- STA. 12+65.00 TO 28+00.00
SEE PLANS FOR ISLAND LOCATION

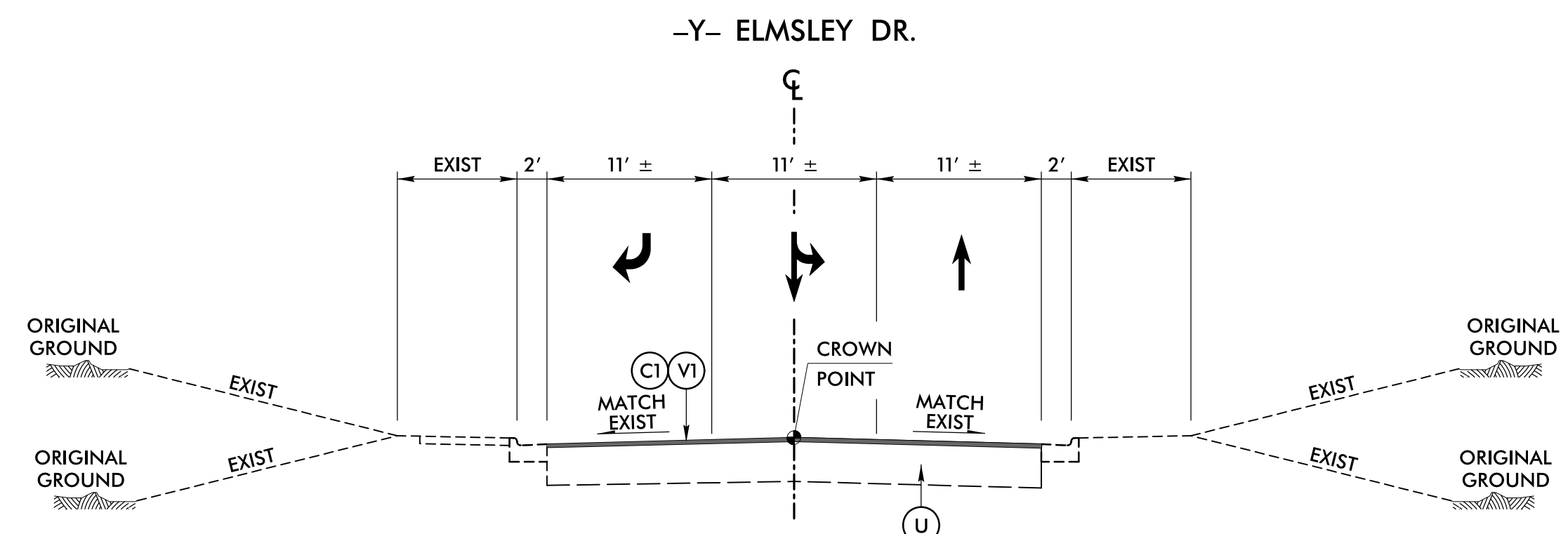
* NOTE: 3" MILL AND RESURFACE FOR NARROW WIDENING AREAS

PAVEMENT SCHEDULE (FINAL PAVEMENT DESIGN)	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ.YD.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ.YD. IN EACH OF TWO LAYERS.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ.YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 1.5" IN DEPTH OR GREATER THAN 2" IN DEPTH.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ.YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ.YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" IN DEPTH OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ.YD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5.5" IN DEPTH.
R1	2'-6" CONCRETE CURB & GUTTER
R2	5" MONOLITHIC ISLAND
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V1	MILLING 1.5"
V2	MILLING 3"
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL THIS SHEET)

ALL PAVEMENT SLOPES 1:1 UNLESS NOTED OTHERWISE



TYPICAL SECTION NO. 3
-Y- STA. 10+21.26 TO 12+88.13



TYPICAL SECTION NO. 4
-Y- STA. 13+43.89 TO 18+03.88

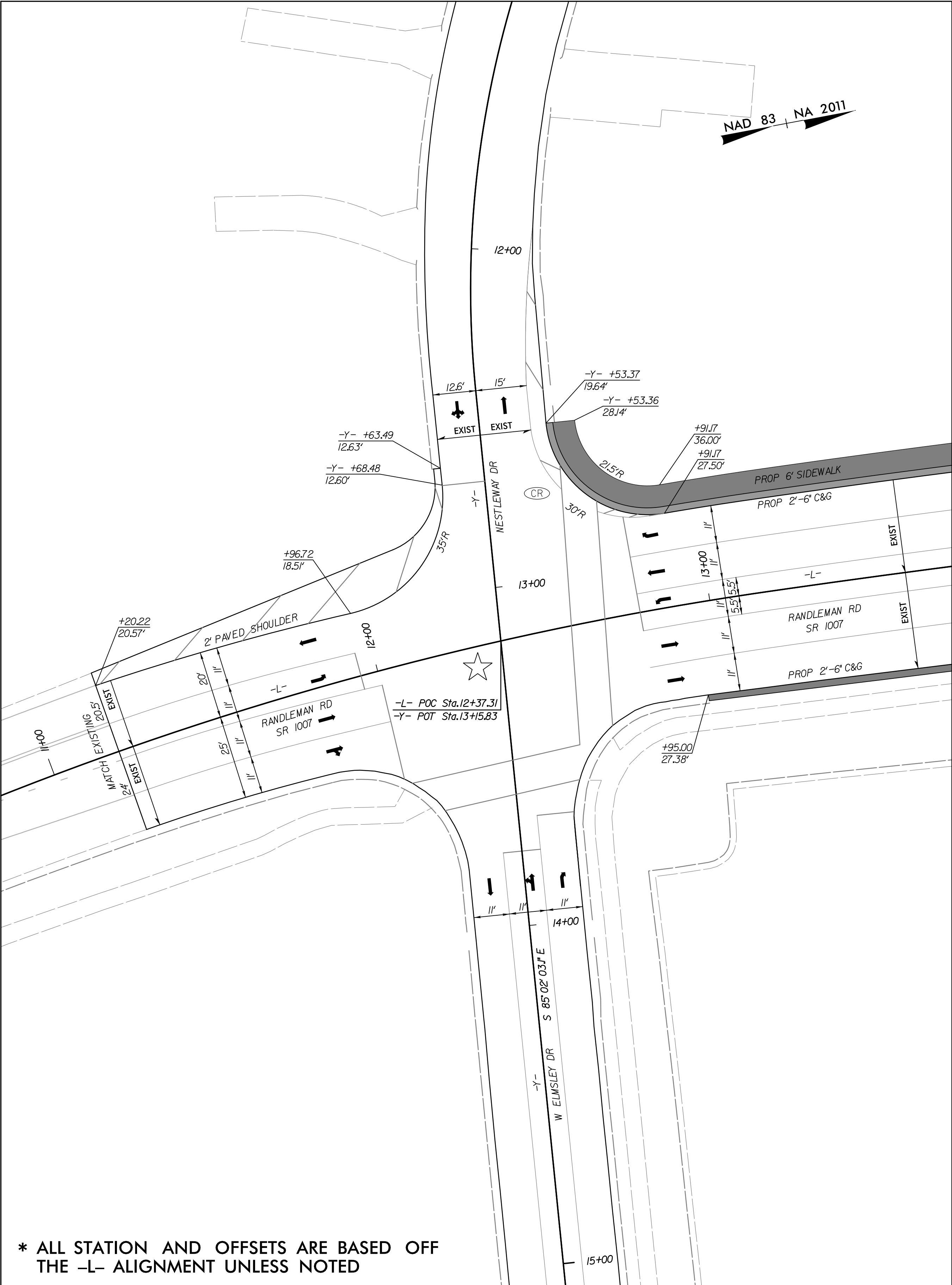
6/22/99

6/1/2025
corcoran
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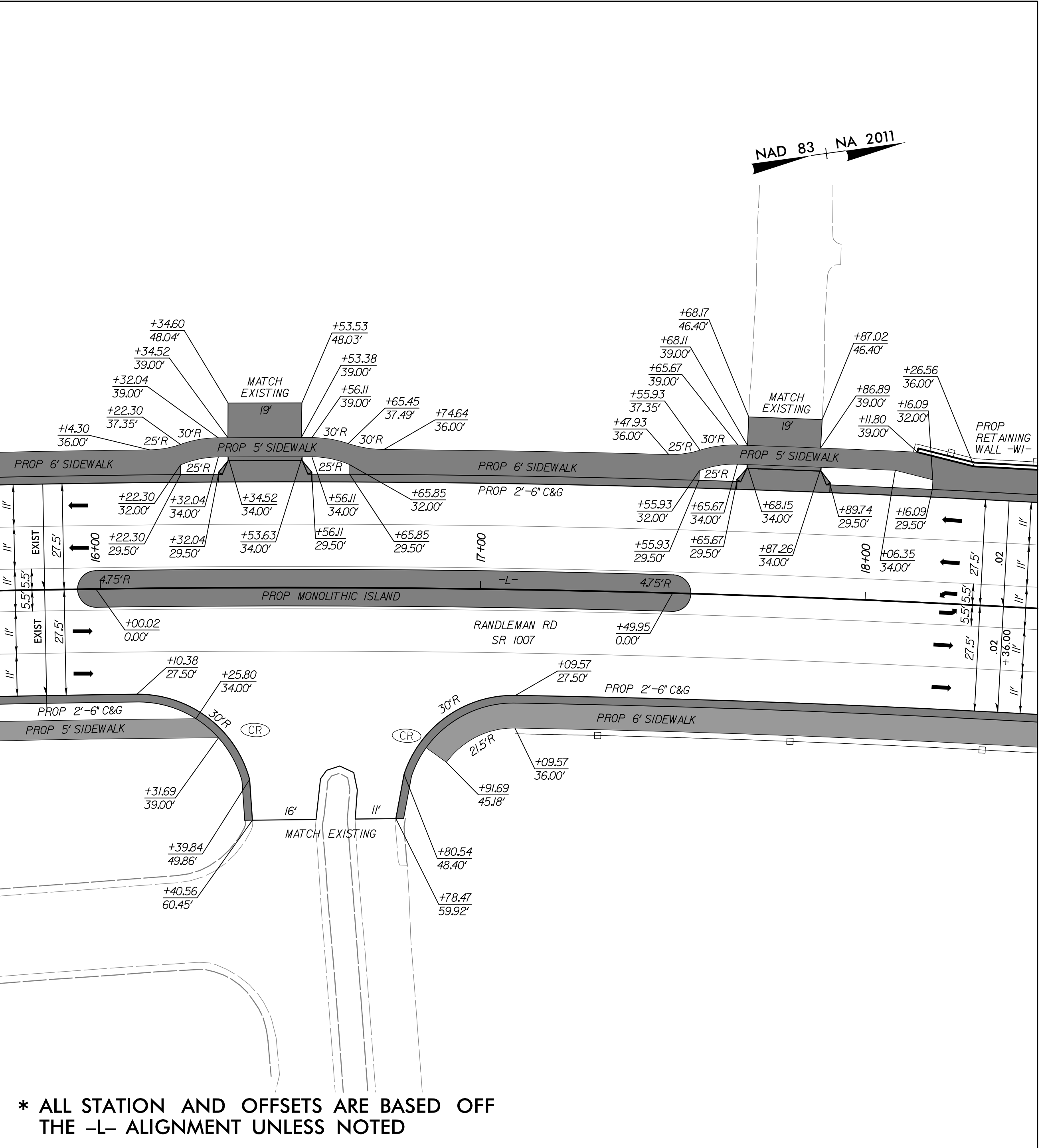
st^v

STV Engineers, Inc.
2151 Hawks St., Suite 1400
Charlotte, NC 28203
NC License Number F-0991

PROJECT REFERENCE NO.		SHEET NO.
U-5850		2B-1
		ROADWAY DESIGN ENGINEER
		DESIGNED BY S. J. CORCORAN SEAL 043891 ENGINEER J. C. STEPHENS 2025
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



-L- RANDLEMAN RD (SR 1007), -Y- NESTLEWAY DR & -Y- WEST ELMSLEY DR



-L- RANDLEMAN RD (SR 1007)

6/22/99

st^v

STV Engineers, Inc.
2151 Hawkins St., Suite 1400
Charlotte, NC 28203
NC License Number F-0991

PROJECT REFERENCE NO.
U-5850

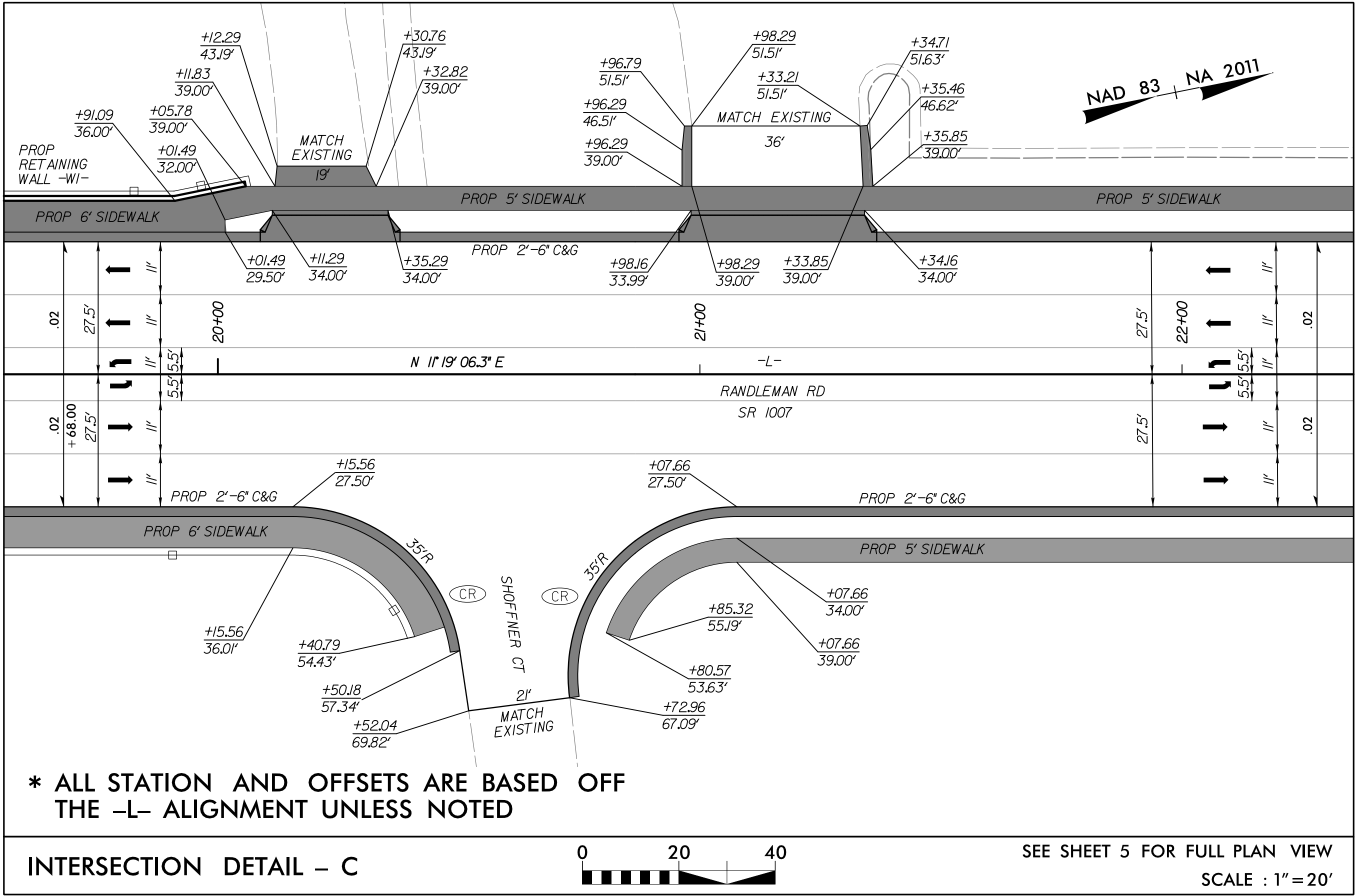
SHEET NO.
2B-2

ROADWAY DESIGN
ENGINEER

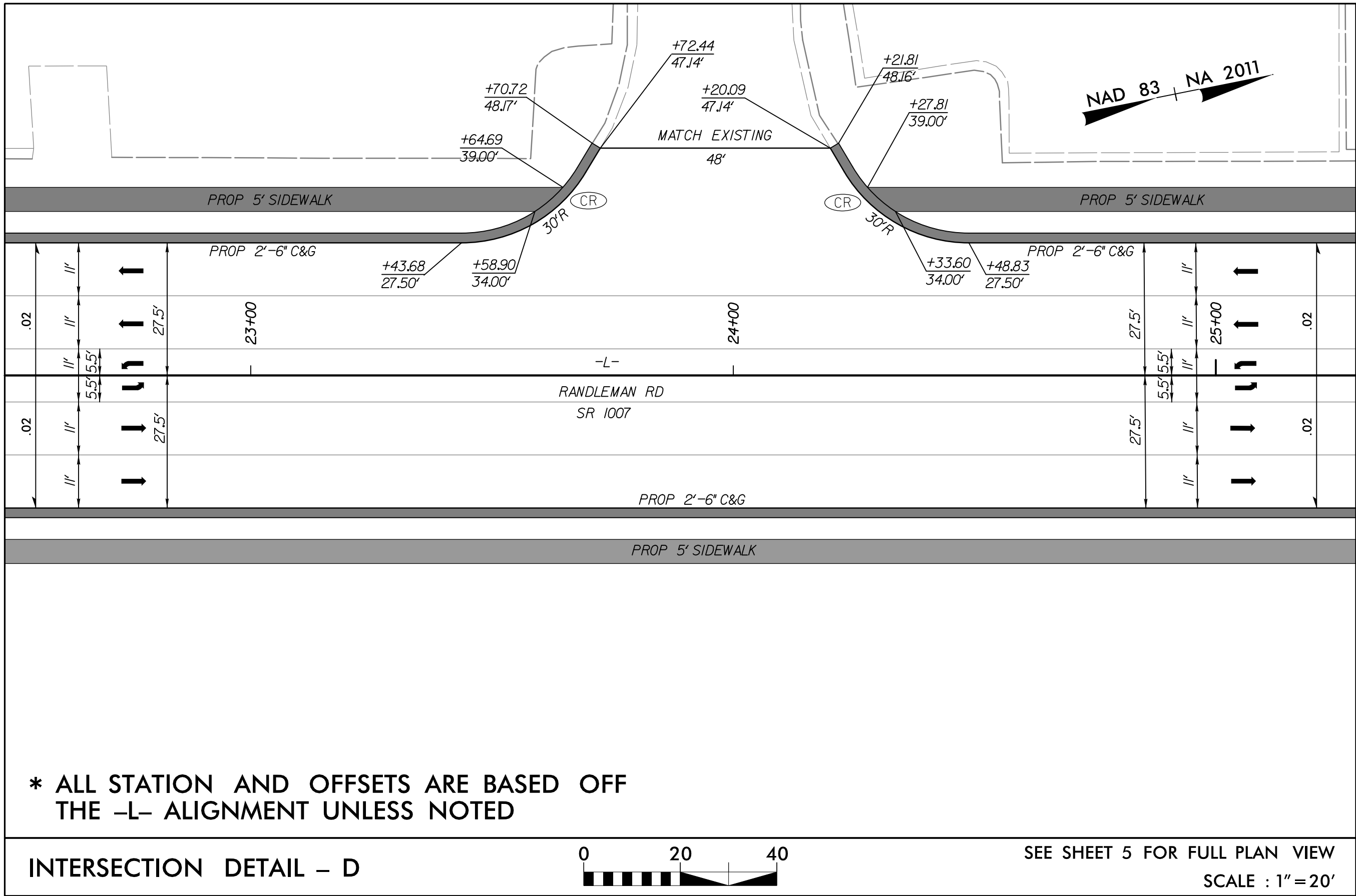
Seal

SEAL
043891
ENGINEER
SEAN C. STEPHENS
2025

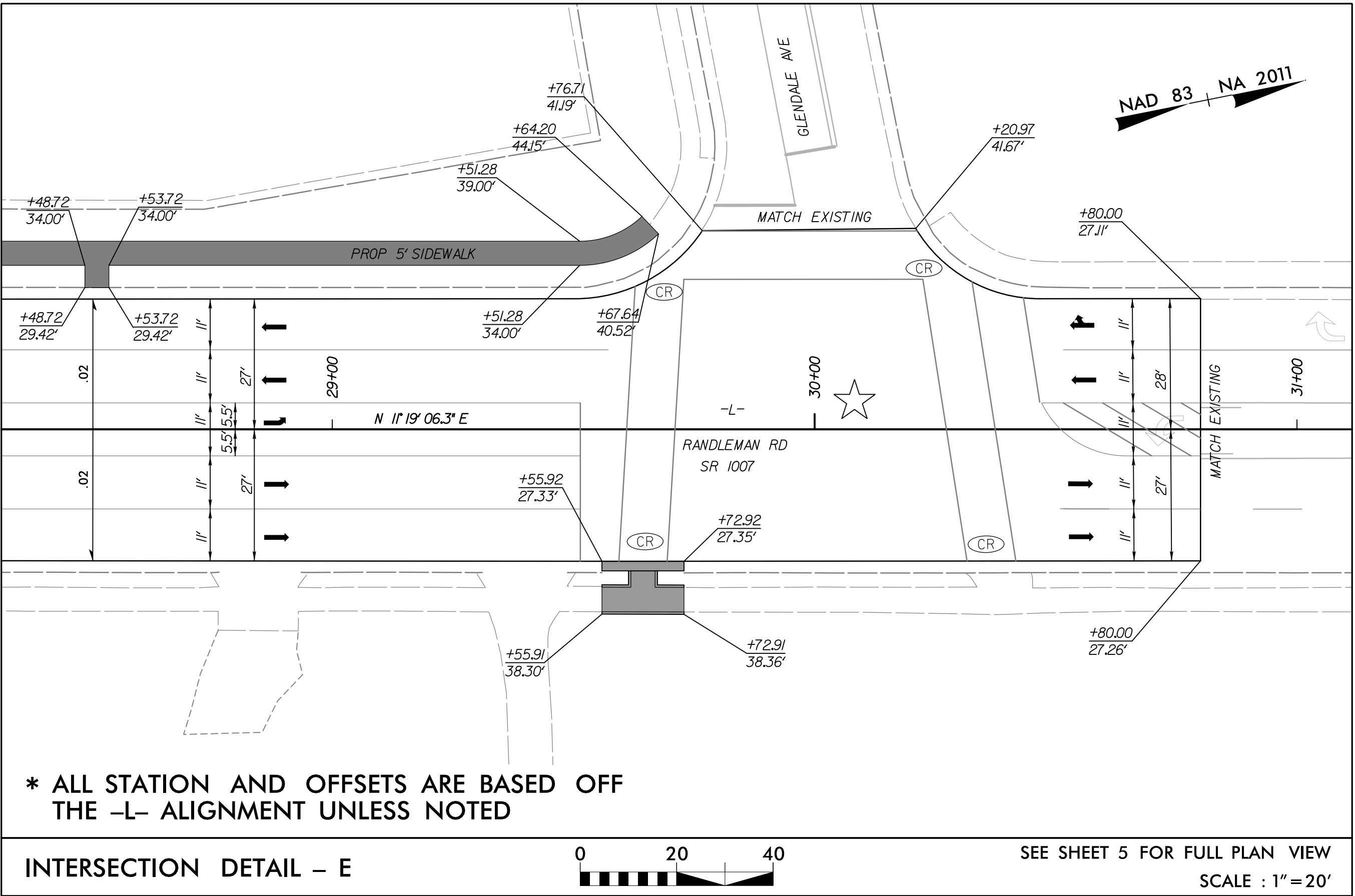
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-L- RANDLEMAN RD (SR 1007)

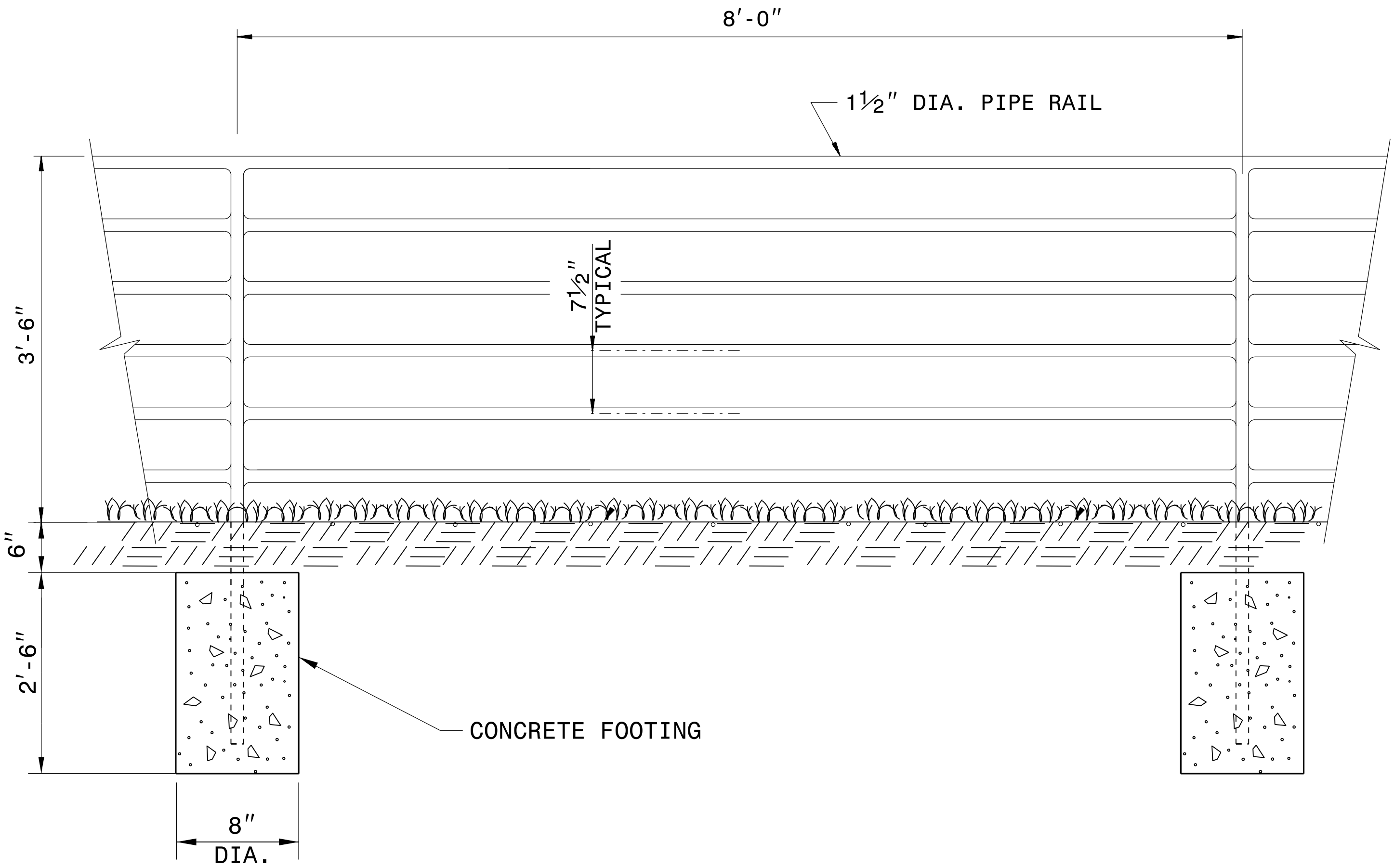


-L- RANDLEMAN RD (SR 1007)

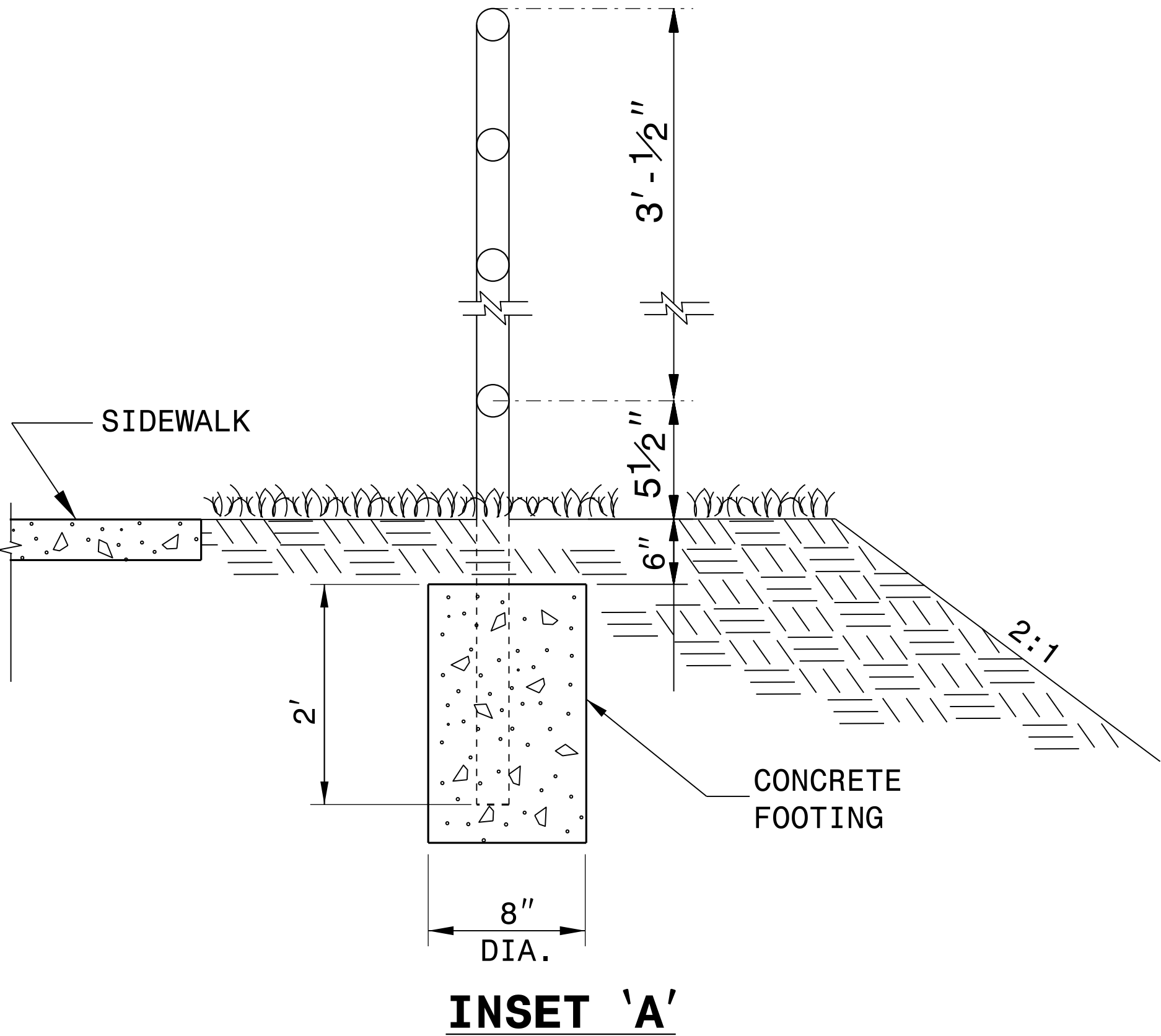


-L- RANDLEMAN RD (SR 1007), GLENDALE AVE

PROJECT REFERENCE NO.	SHEET NO.
U-5850	2C-1



ELEVATION OF HANDRAIL



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 SECTION 1076 OF THE NCDOT STANDARD SPECIFICATIONS.

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.

USE CLASS 'B' CONCRETE FOR HANDRAIL FOOTINGS.

PLACEMENT OF HANDRAIL IN RELATION TO SHOULDER BREAK POINT AND SIDEWALK MAY BE MODIFIED AS DIRECTED BY THE ENGINEER.

DocuSigned by:
Sean C. Stephens
8E63BFAD76DC438

6/11/2025

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UNLESS ALL SIGNATURES COMPLETED

CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
PROPOSED PEDESTRIAN HANDRAIL	
ORIGINAL BY: E.E. WARD	DATE: 12-99
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.: jhowerton/handrail adjacent to sidewalk.dgn	

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA



STV Engineers, Inc.
2151 Hawkins St., Suite 1400
Charlotte, NC 28203
NC License Number F-0991

PROJECT REFERENCE NO.	SHEET NO.
U-5850	3B-1
RW SHEET NO.	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

EARTHWORK SUMMARY
(IN CUBIC YARDS)

CHAIN	FROM STATION	TO STATION	SIDE	UNCL. EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
-L-	13 + 00.00	29 + 50.00	LEFT	841		24		817
SUBTOTAL SUMMARY 1				841		24		817
-L-	13 + 50.00	28 + 00.00	RIGHT	170		1,642	1,472	
SUBTOTAL SUMMARY 2				170		1,642	1,472	
TOTAL				1,011		1,666	1,472	817
MATERIAL FOR SHOULDER CONSTRUCTION								
LOSS DUE TO CLEARING & GRUBBING				500			-500	
ADDITIONAL UNDERCUT								
ROCK WASTE TO REPLACE BORROW								
ADJUST FOR ROCK WASTE								
WASTE IN LIEU OF BORROW							-642	-642
PROJECT TOTAL				1,511		1,666	330	175
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT							17	
GRAND TOTAL				1,511		1,666	347	175
SAY				1,600			400	

NOTE: APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION, BORROW EXCAVATION, FINE GRADING, CLEARING AND GRUBBING WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR "GRADING."

* PROVIDED FOR INFORMATION ONLY. CONTRACTOR TO VERIFY.

EST. SHALLOW UNDERCUT = 100 CUBIC YARDS
EST. SHALLOW UNDERCUT BY STATIONS -L- STA. 16+25 TO -L- STA. 17+75 = 100 CUBIC YARDS
EST. SHALLOW UNDERCUT BY STATIONS -L- STA. 26+00 TO -L- STA. 28+00 = 100 CUBIC YARDS
EST. TOTAL SHALLOW UNDERCUT = 300 CUBIC YARDS
EST. CLASS IV SUBGRADE STABILIZATION = 750 TONS
PER GEOTECH RECOMMENDATION. ESTIMATED 250 CUBIC YARDS OF UNDERCUT TO BE USED IN THE DISCRETION OF THE RESIDENT ENGINEER.

ENGX04151

Docusign Envelope ID: 98366462-C272-4B53-8835-2059EC3A1FCB

ENGX04151

STATE OF NORTH CAROLINA

DIVISION OF HIGHWAYS

SUMMARY OF SUBSURFACE DRAINAGE

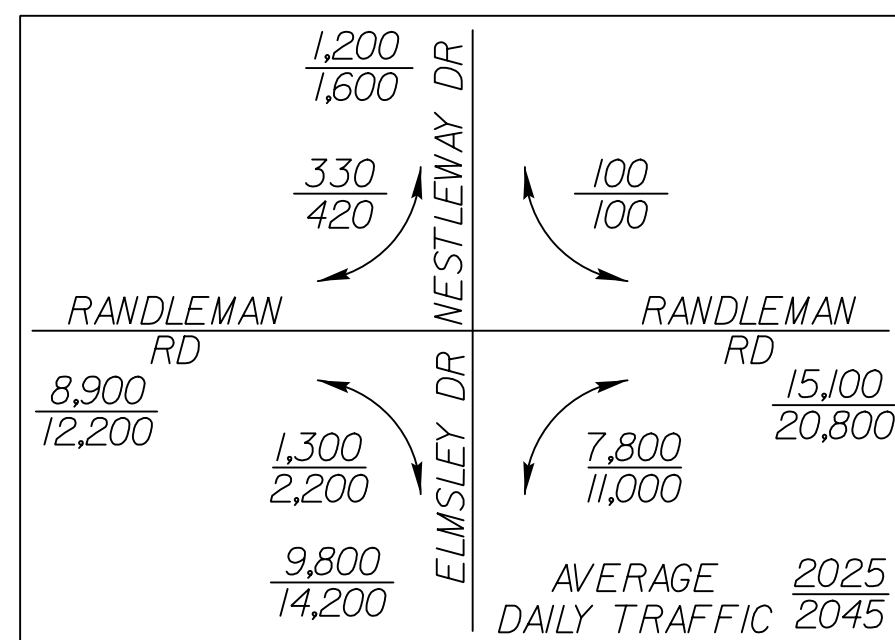
LINE	Station	Station	Location LT/RT/CL	Drain Type* UD/BD/SD	LF
CONTINGENCY				UD	1000
				TOTAL LF:	1000

*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
-L-	16+25	17+75	ASU(1)	12	100	200	300		
-L-	26+00	28+00	ASU(1)	12	100	350	350		
CONTINGENCY			ASU(1)	12	100	200	300		
			TOTAL CY/TONS/SY:		300	750**	950**	0	0

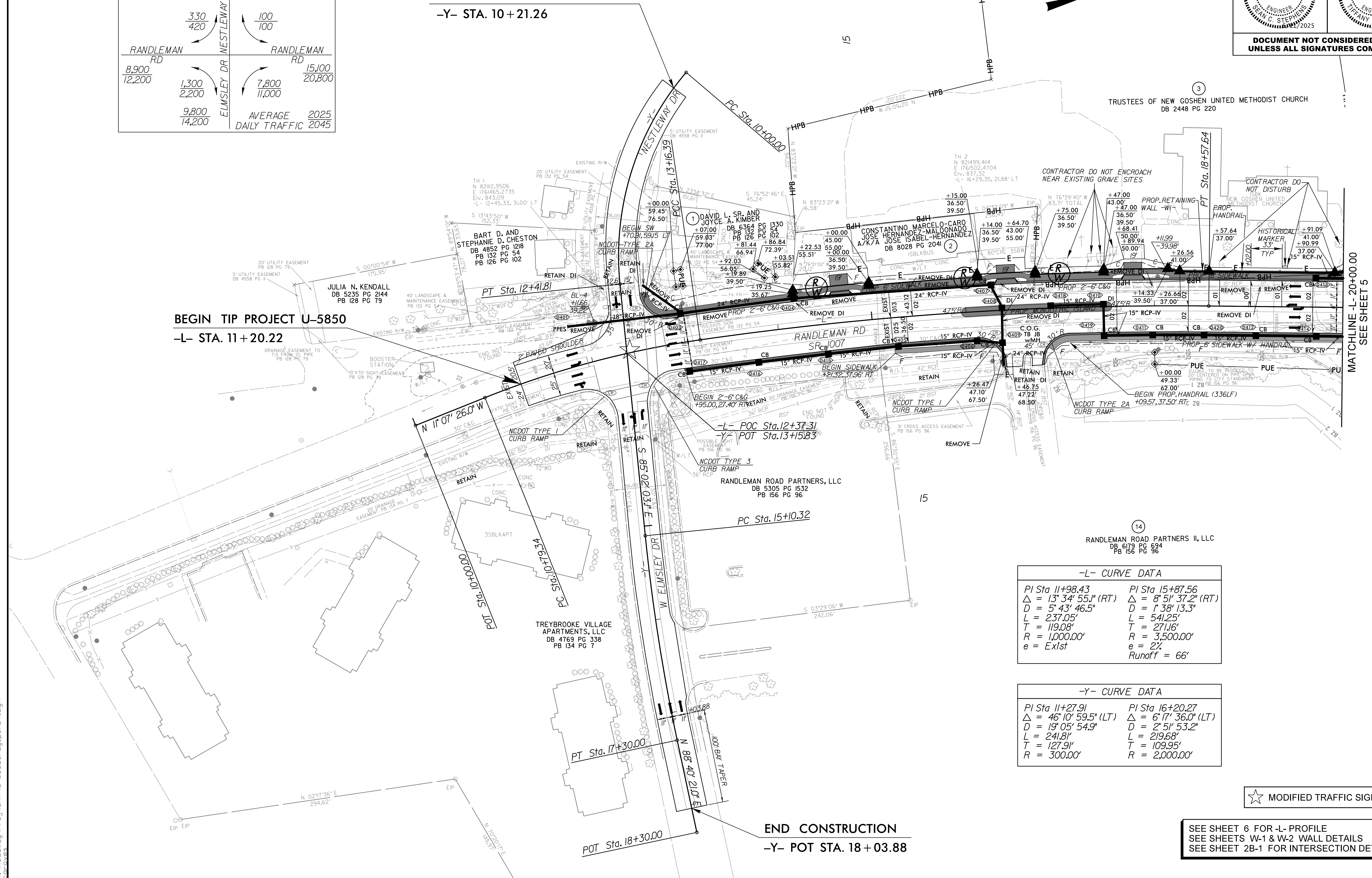
*ASU(1/2) = Aggregate Subgrade (Type 1 or 2)
*AST = Aggregate Stabilization
**Total tons of "Class IV Subgrade Stabilization" and total square yards of "Geotextile for Subgrade Stabilization" are only the estimated quantities for ASU(1/2)/AST and may only represent a portion of the subgrade stabilization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



BEGIN CONSTRUCTION U-5850

-Y- STA. 10+21.26

NAD 83 + NA 2011



★ MODIFIED TRAFFIC SIGNAL

SEE SHEET 6 FOR -L- PROFILE
SEE SHEETS W-1 & W-2 WALL DETAILS
SEE SHEET 2B-1 FOR INTERSECTION DETAILS

5/11/2025
3:\Roadway\Proj\SHT\U-5850_rdy-psh04.dgn
groves

STV

STV Engineers, Inc.
2151 Hawkins St., Suite 1400
Charlotte, NC 28203
NC License Number F-0991

PROJECT REFERENCE NO.

U-5850

SHEET NO.

5

ROADWAY DESIGN ENGINEER

SEAL

043891

2025

HYDRAULICS ENGINEER

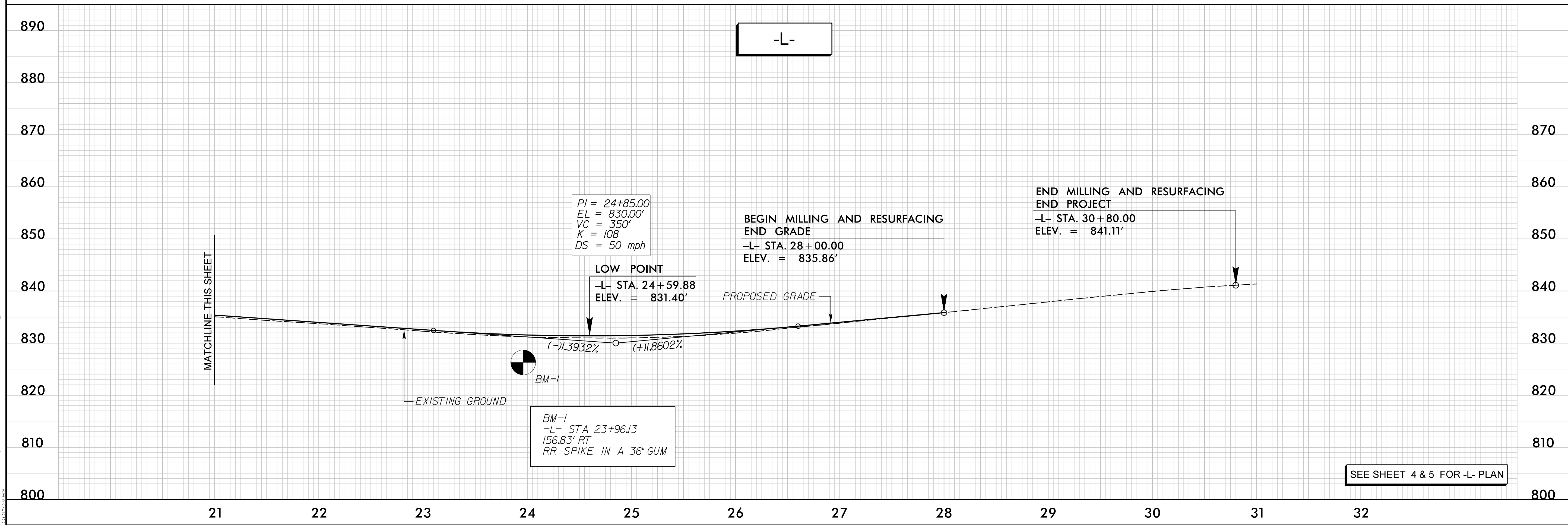
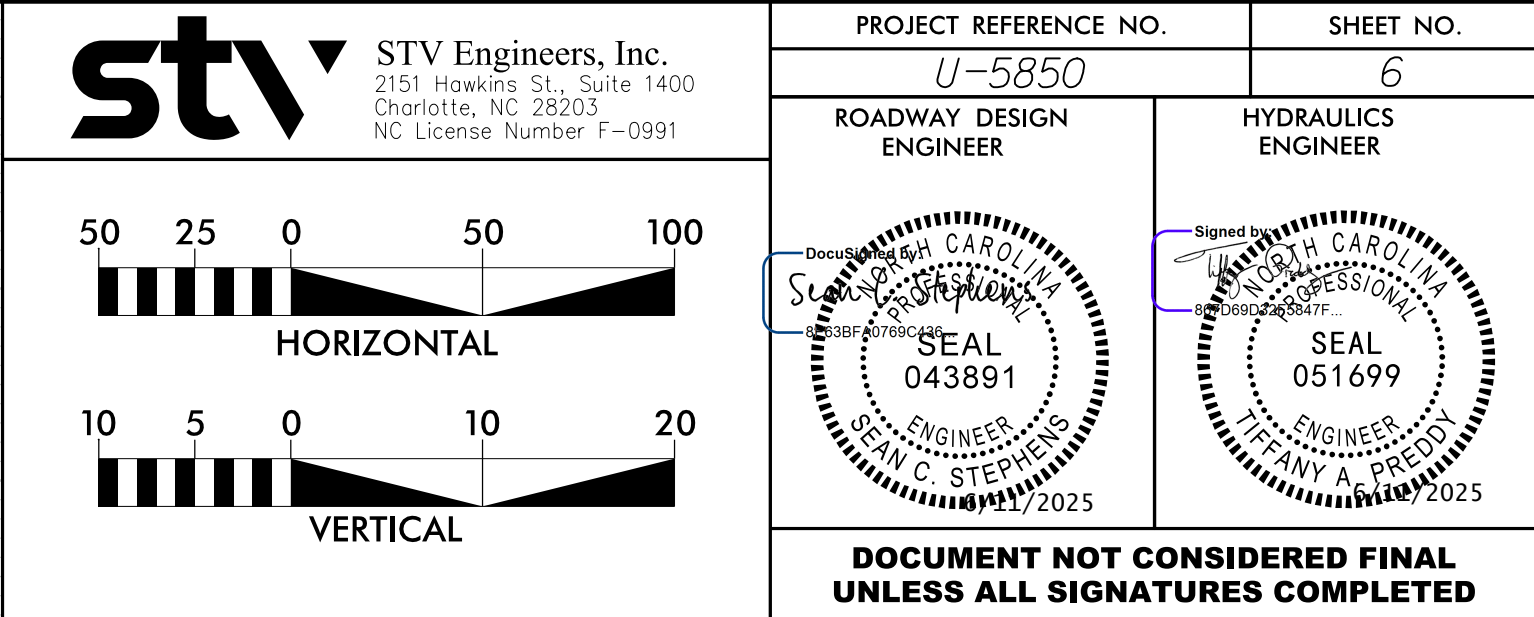
SEAL

051699

2025

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

6/1/2025
R:\Roadway\U-5850-L-Profile.dwg
C:\Users\jshoemaker



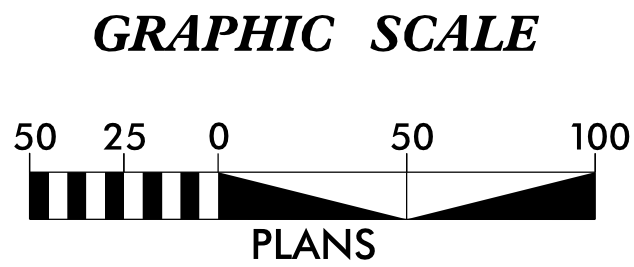
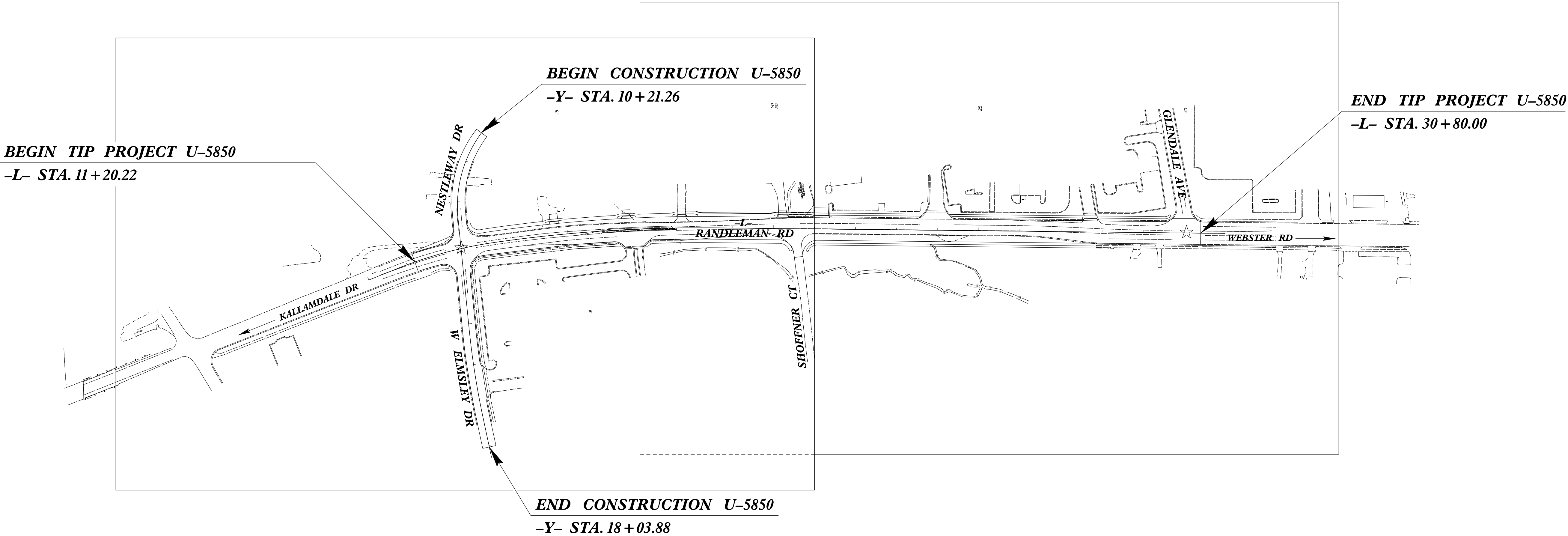
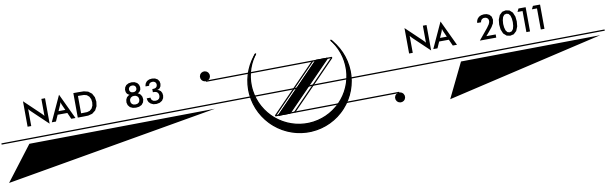
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5850	RW01	

TIP PROJECT: U-5850

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SURVEY CONTROL, EXISTING CENTERLINES,
RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

GUILFORD COUNTY



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "U5850-2" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 819785.265(ft) EASTING: 1761710.114(ft) ELEVATION: 869.85(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99992098 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "U5850-2" TO -L- STATION 10+00.00 IS N 09-25'10" W 1100.77(ft) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:

Dewberry
Dewberry Engineers Inc.
551 PINEY FOREST ROAD
DANVILLE, VA 24040
PHONE: 434.797.4497
FAX: 434.797.4341
NCBELS #F-0029

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
01/10/2022

LETTING DATE:
07/17/2025

PROFESSIONAL LAND
SURVEYOR

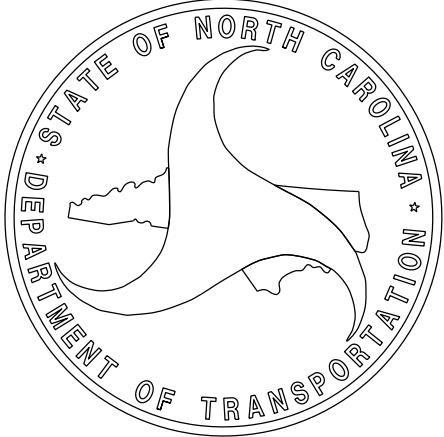


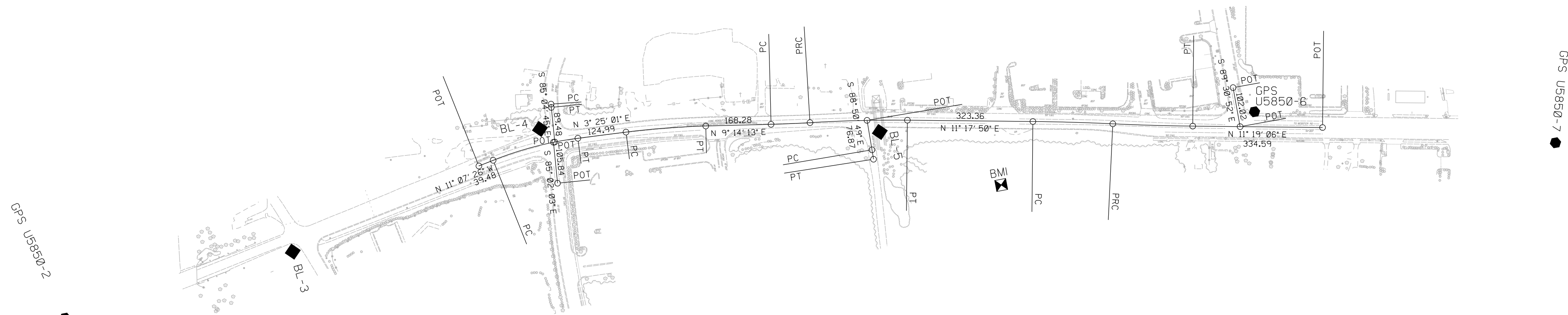
DocuSigned by:
Adam Hales
E91D58C1163E43D...

SIGNATURE:

5/21/2025

Date:





NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

PROJECT REFERENCE NO.	SHEET NO.
U-5850	RW2C-1
Location and Surveys	
 Dewberry [®] Dewberry Engineers Inc.	
551 PINEY FOREST ROAD DANVILLE, VA 24540 PHONE: 434.797.4497 FAX: 434.797.4341 NCBELLS #F-0929	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PROJECT CONTROL AND BASELINE PROVIDED BY NCDOT

SURVEY CONTROL SHEET
W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BASELINE DATA					

BL	POINT	DESC.	NORTH	EAST	ELEVATION

1		U5850-1	818918.7132	1761920.3916	866.66
2		U5850-2	819785.2654	1761710.1141	869.85
3		BL-3	820393.2989	1761650.6574	862.52
4		BL-4	821077.7645	1761458.6337	848.58
5		BL-5	821936.8013	1761628.8461	833.89
6		U5850-6	822895.1760	1761757.1310	841.08
7		U5850-7	823642.4440	1761979.3780	838.89

BENCHMARK DATA

BM1 ELEVATION = 826.29
N 822219 E 1761821
RR SPIKE IN A 36" GUM

PROJECT REFERENCE NO.	SHEET NO.
U-5850	RW2C-2
Location and Surveys	
 Dewberry Engineers Inc. 551 PINEY FOREST ROAD DANVILLE, VA 24540 PHONE: 434.797.4497 FAX: 434.797.4341 NCBELS #F-0929	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PROJECT CONTROL AND BASELINE PROVIDED BY NCDOT

- NOTES:
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
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SURVEY CONTROL SHEET
W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.
U-5850

SHEET NO.
RW2C-3

Location and Surveys

 **Dewberry**[®]

Dewberry Engineers Inc.

551 PINEY FOREST ROAD
DANVILLE, VA 24540
PHONE: 434.797.4497
FAX: 434.797.4341
NCBELS #F-0929

PROJECT SURVEYOR

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROJECT CONTROL AND BASELINE PROVIDED BY NCDOT

CENTERLINE ALIGNMENT DATA

EL POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	820905.522	1761523.209							
LINE			N 11°07'26.0" W	39.48					
PC	820944.260	1761515.592							
CURVE			N 03°51'12.3" W	225.60	14°32'27.3"(RT)	06°25'41.7"	226.20	113.71	891.31
PT	821169.347	1761500.431							
LINE			N 03°25'01.3" E	124.99					
PC	821294.117	1761507.881							
CURVE			N 06°19'37.0" E	206.14	05°49'11.4"(RT)	02°49'19.4"	206.23	103.20	2030.28
PT	821498.999	1761530.598							
LINE			N 09°14'12.7" E	168.28					
PC	821665.093	1761557.609							
CURVE			N 08°13'28.2" E	100.45	02°01'29.1"(LT)	02°00'56.2"	100.45	50.23	2842.59
PCC	821764.508	1761571.978							
CURVE			N 09°15'16.7" E	251.07	04°05'06.2"(RT)	01°37'36.1"	251.13	125.62	3522.22
PT	822012.312	1761612.356							
LINE			N 11°17'49.8" E	323.36					
PC	822329.409	1761675.702							
CURVE			N 12°20'43.7" E	206.01	02°05'47.8"(RT)	01°01'03.6"	206.02	103.02	5630.04
PCC	822530.651	1761719.747							
CURVE			N 12°21'21.9" E	206.01	02°04'31.2"(LT)	01°00'26.5"	206.02	103.02	5687.71
PT	822731.886	1761763.830							
LINE			N 11°19'06.3" E	334.59					
POT	823059.970	1761829.497							

EY POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	821117.680	1761401.246							
CURVE			S 84°11'28.5" E	8.52	01°46'33.6"(LT)	20°50'05.4"	8.52	4.26	275.00
PT	821116.817	1761409.726							
LINE			S 85°04'45.3" E	89.48					
POT	821109.142	1761498.875							

EY1 POINT	N	E	BEARING	DIST
POT	821105.601	1761498.910		
LINE			S 85°02'03.1" E	105.84
POT	821096.439	1761604.357		

EY2 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	821910.068	1761593.496							
LINE			S 88°50'48.6" E	76.87					
PC	821908.521	1761670.355							
CURVE			S 88°30'10.4" E	24.52	00°41'16.4"(RT)	02°48'20.7"	24.52	12.26	2042.08
PT	821908.521	1761670.355							

EY3 POINT	N	E	BEARING	DIST
POT	822852.458	1761685.773		
LINE			S 89°30'51.9" E	102.02
POT	822851.593	1761787.790		

- NOTES:
1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

6/2/99

REVISIONS

13-FEB-2024 10:50
P:\50152160\060 Surveys\MICROSTATION\RW SHEETS\U5850_L.S.RW02E-1.L240214.dgn
bpoewell AT PF250W9R

RIGHT OF WAY CONTROL SHEET

I, Adam C. Hales, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 6/2/22 to 2/14/24 and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 14th day of February, 2024.

Adam Hales

Professional Land Surveyor L-4980

PROJECT REFERENCE NO.

U-5850

SHEET NO.

RW2E-1

Location and Surveys

**Dewberry**[®]

Dewberry Engineers Inc.

351 PINEY FOREST ROAD
DANVILLE, VA 24540
PHONE: 434.787.4487
FAX: 434.787.4341
NCBELS #F-0929

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	14+19.25	-35.67	821290.1296	1761467.1318
L	14+19.89	-39.50	821291.0471	1761463.3536
L	15+00.00	-36.50	821371.4901	1761473.1303
L	15+00.00	-39.50	821371.7757	1761470.1439
L	16+14.00	-36.50	821485.9567	1761485.9634
L	16+14.00	-39.50	821486.3394	1761482.9879
L	16+75.00	-36.50	821547.0175	1761494.3595
L	16+75.00	-39.50	821547.4521	1761491.3911
L	17+47.00	-36.50	821618.8877	1761505.6370
L	17+47.00	-39.50	821619.3832	1761502.6782
L	18+14.33	-39.50	821686.4297	1761514.5707
L	18+26.66	-37.00	821698.2081	1761519.3428
L	18+57.64	-37.00	821728.9350	1761525.3516
L	19+90.99	-37.00	821859.6865	1761551.5220
L	20+03.23	-39.50	821872.1864	1761551.4743
L	20+81.56	64.63	821928.5535	1761668.9479
L	21+07.66	39.50	821959.0734	1761649.4320
L	27+85.51	-39.50	822639.2470	1761705.0045
L	28+17.92	39.50	822655.5278	1761788.8301
	REMOVED			

ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	13+00.00	-76.50	821170.5118	1761419.7412
L	13+00.00	-59.45	821170.0600	1761436.7847
L	13+07.00	-77.00	821178.0607	1761419.4676
L	13+07.00	-59.03	821177.4588	1761437.4245
L	13+81.44	-66.94	821253.9362	1761433.3588
L	13+87.02	-72.57	821259.9653	1761428.1005
L	13+92.03	-56.05	821264.0097	1761444.9092
L	14+03.51	-55.82	821275.6254	1761445.9137
L	18+00.00	62.00	821653.8973	1761611.7715
L	18+00.00	49.33	821656.1794	1761599.3067
L	20+37.20	67.00	821884.5925	1761662.5698
L	21+23.80	71.00	821968.7178	1761683.4871
L	22+54.00	72.32	822096.1304	1761710.3341
L	22+54.00	80.00	822094.6228	1761717.8660
L	22+58.00	-39.50	822121.9982	1761601.4752
L	22+58.00	-72.25	822128.4258	1761569.3621
L	22+62.00	80.00	822102.4672	1761719.4361
L	22+62.00	72.40	822103.9589	1761711.9836
L	22+66.00	-72.25	822136.2702	1761570.9322
L	22+66.00	-39.50	822129.8426	1761603.0452
L	23+87.18	39.50	822233.1654	1761704.2926
L	23+87.18	66.00	822227.9603	1761730.2764
L	24+07.22	66.00	822247.6136	1761734.2101
L	24+07.22	39.50	822252.8145	1761708.2254
L	24+10.00	72.00	822249.1589	1761740.6384
L	24+18.68	-39.50	822279.5572	1761633.0112
L	24+18.68	-80.71	822287.6441	1761592.6075
L	24+26.68	-39.50	822287.4003	1761634.5810
L	24+26.68	-80.85	822295.5156	1761594.0355
L	24+36.00	262.00	822237.3636	1761932.0460
L	24+40.00	73.00	822278.3792	1761747.5068
L	24+66.00	260.00	822267.1727	1761935.9727
L	26+37.92	74.00	822472.2570	1761787.3320
L	26+94.50	69.71	822528.5772	1761794.2339
L	26+96.36	78.89	822528.6011	1761803.5969
L	27+02.54	69.11	822536.5797	1761795.2146
L	27+04.20	77.30	822536.6011	1761803.5764
L	27+10.62	-39.50	822565.8158	1761690.3070
L	27+18.82	-39.50	822573.8578	1761691.9166
L	27+19.98	-80.93	822583.1235	1761651.5193
L	27+27.78	-79.17	822590.4292	1761654.7792
L	29+34.25	-49.38	822787.0353	1761724.5090
L	29+34.25	-39.34	822785.0608	1761734.3559
L	29+65.53	-50.20	822817.8710	1761729.8491
L	29+94.37	47.00	822827.0659	1761830.8129
L	29+99.29	38.70	822833.5260	1761823.6430
L	29+99.00	59.00	822829.2553	1761843.4891
L	30+06.46	55.85	822837.1884	1761841.8691

POINT NOT SET,HITS TELEPHONE CABINET

NOTES:

- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- RIGHT OF WAY MONUMENTATION ESTABLISHED 6/2/22 TO 2/14/24 .

Adam Hales
Professional Land Surveyor L-4980



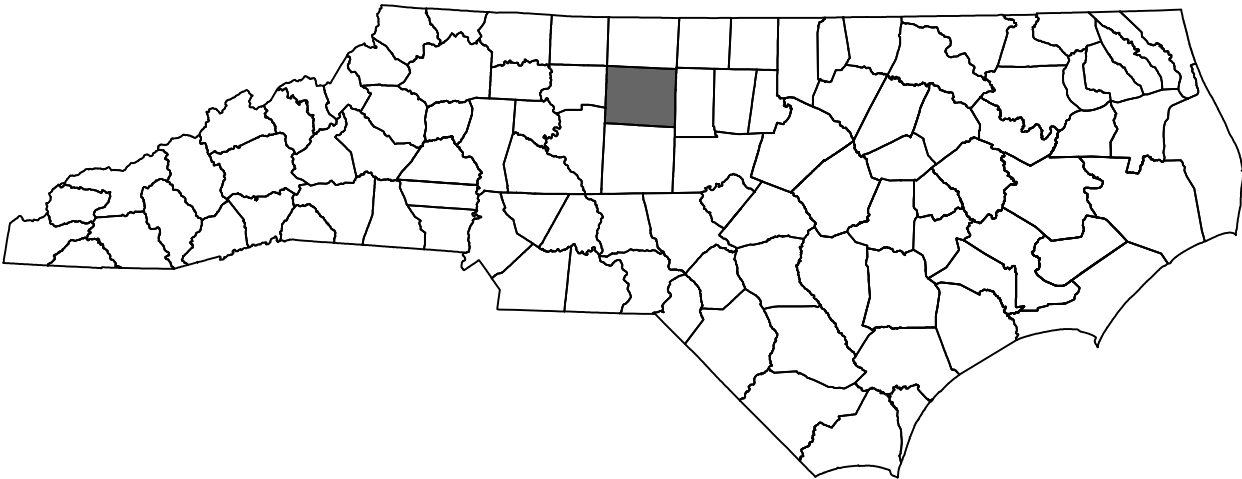
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 6/2/22 TO 2/14/24 .

STATE OF NORTH CAROLINA

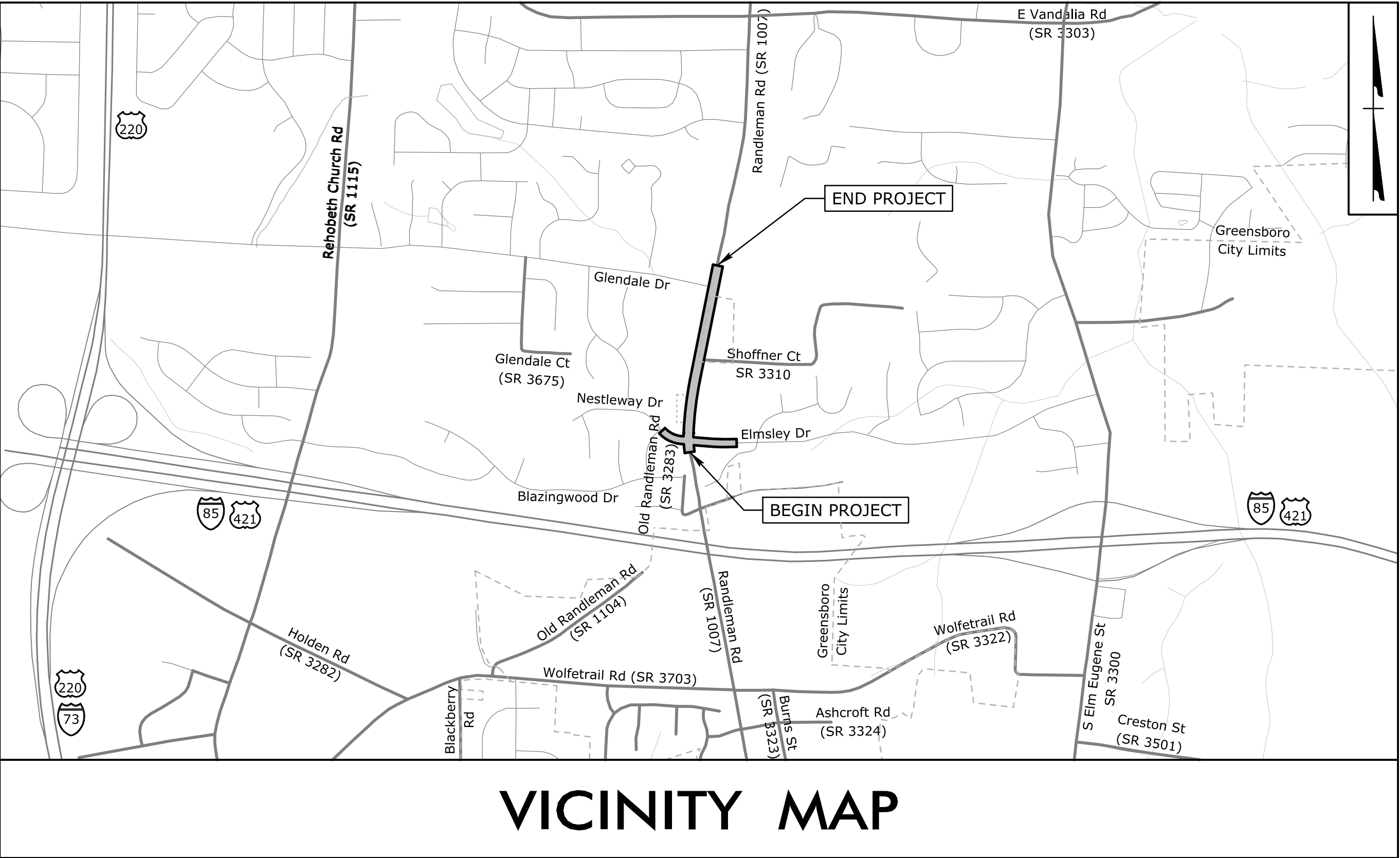
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

GUILFORD COUNTY



LOCATION: SR 1007 (RANDLEMAN RD.) FROM ELMSLEY DR.
TO GLENDALE DR. IN GREENSBORO



VICINITY MAP

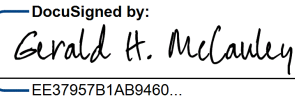
INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-2	TRANSPORTATION OPERATIONS PLAN: (GENERAL NOTES, AND MANAGEMENT STRATEGIES)
TMP-3	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4 THRU TMP-8	TEMPORARY TRAFFIC CONTROL PHASE I DETAIL
TMP-9 THRU TMP-12	TEMPORARY TRAFFIC CONTROL PHASE II DETAIL
TMP-13	TEMPORARY TRAFFIC CONTROL DETOUR ROUTE
TMP-14 THRU TMP-16	TEMPORARY TRAFFIC CONTROL PHASE III DETAIL
TMP-17	TEMPORARY TRAFFIC CONTROL SIGN DESIGN

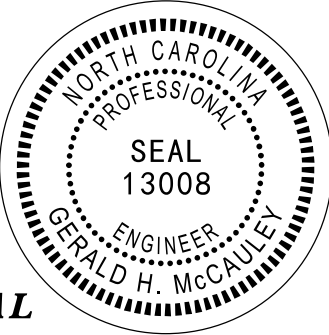
SHEET NO.
TMP-1

TIP PROJECT: U-5850

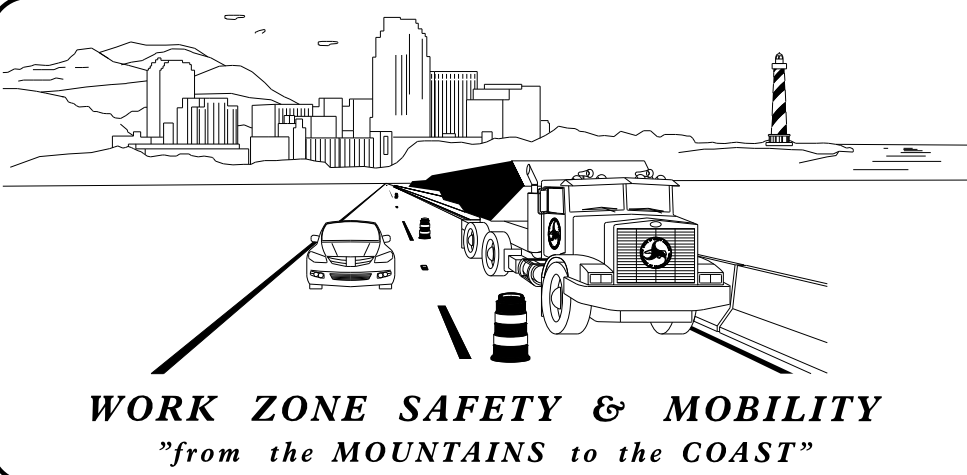
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APPROVED: 
DATE: 6/11/2025

STV STV Engineers, Inc.
2151 Hawkins St., Suite 1400
Charlotte, NC 28203
NC License Number F-0991



SEAL



PLANS PREPARED BY:

GERALD H. MCCAULEY, PE
TRAFFIC ENGINEER

MAAMOON K. ABDELAZIZ
TRANSPORTATION DESIGNER

NCDOT CONTACTS:

SUZANA MATTA, PE
PROJECT MANAGER

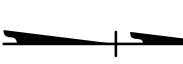


ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - 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
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1160.01	TEMPORARY CRASH CUSHION
1165.01	TRUCK MOUNTED ATTENUATOR
1180.01	SKINNY - DRUMS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.06	PAVEMENT MARKINGS - LANE DROPS

GENERAL

-  DIRECTION OF TRAFFIC FLOW
-  DIRECTION OF PEDESTRIAN TRAFFIC FLOW
-  EXIST. PVMT.
-  NORTH ARROW
-  PROPOSED PVMT.
-  TEMP. SHORING (LOCATION PURPOSES ONLY)



EOT EXISTING EDGE OF TRAVEL

SIGNALS

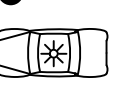
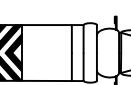
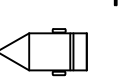
-  EXISTING
-  PROPOSED
-  TEMPORARY

PAVEMENT MARKINGS

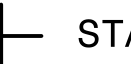
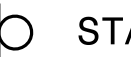
-  EXISTING LINES
-  TEMPORARY LINES

LEGEND

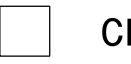
TRAFFIC CONTROL DEVICES

-  BARRICADE (TYPE III)
-  CONE
-  DRUM  SKINNY DRUM  TUBULAR MARKER
-  TEMPORARY CRASH CUSHION
-  FLASHING ARROW BOARD
-  FLAGGER
-  LAW ENFORCEMENT
-  TRUCK MOUNTED ATTENUATOR (TMA)
-  CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

-  PORTABLE SIGN
-  STATIONARY SIGN
-  STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

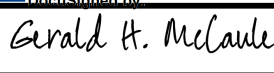
-  CRYSTAL/CRYSTAL
-  CRYSTAL/RED
-  YELLOW/YELLOW

PAVEMENT MARKING SYMBOLS

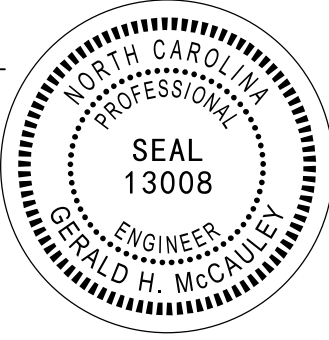
-    PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING

<u>PAINT 4"</u>		<u>PAINT MARKING SYMBOLS</u>	
P1	WHITE EDGE LINE	P70	LEFT TURN ARROW
P2	WHITE SOLID LANE LINE	P71	RIGHT TURN ARROW
P3	10 FT. WHITE SKIP	P72	STRAIGHT ARROW
P4	3 FT. - 9 FT. SP WHITE MINISKIP	P74	COMBO. STRAIGHT / RIGHT
P10	YELLOW EDGE LINE		
P11	YELLOW SINGLE CENTER		
P12	10 FT. YELLOW SKIP		
P13	YELLOW DOUBLE CENTER		
<u>PAINT 8"</u>			
P42	YELLOW DIAGONAL		
<u>PAINT 24"</u>			
P61	WHITE STOPBAR		

APPROVED: 

DATE: 6/11/2025



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ROADWAY STANDARD
DRAWINGS & LEGEND

PROJ. REFERENCE NO.	SHEET NO.
U-5850	TMP-2

stv

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PROJECT NOTES

GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIREED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
RANDLEMAN RD SR 1007	MONDAY THRU SUNDAY 6:00 A.M. TO 6:00 P.M.
GLENDAL E DR NESTLEWAY DR ELMSLEY DR	MONDAY THRU FRIDAY 6:00 A.M. TO 9:00 A.M. 3:00 P.M. TO 6:00 P.M.

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME
ANY ROAD

HOLIDAYS & EVENTS

- FOR UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S DAY, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31ST AND 6:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY, THEN UNTIL 6:00 P.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 6:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 6:00 P.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE DAY AFTER INDEPENDENCE DAY. IF INDEPENDENCE DAY IN ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY, THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 6:00 P.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY AND 6:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS DAY.

C) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
NESTLEWAY DRIVE	FRIDAY 6:00 P.M. TO MONDAY 6:00 A.M.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- D) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 5 FT OF AN OPEN TRAVEL LANE ON AN UNDIVIDED FACILITY, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 10 FT OF AN OPEN TRAVEL LANE ON A DIVIDED FACILITY, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

- G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- H) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.
- I) USE SEQUENTIAL FLASHING WARNING LIGHTS ON DRUMS USED FOR THE MERGING TAPERS OF NIGHTTIME LANE CLOSURES IN ACCORDANCE WITH SECTION 1140 IN THE STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- J) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:
- BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.
- BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.
- BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

TRAFFIC PATTERN ALTERATIONS

- K) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

- L) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- M) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

- N) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

PAVEMENT MARKINGS AND MARKERS

- O) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING
ALL ROADS	PAINT

- P) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- Q) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.
- R) ALL CURB RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH THE SIGNING AND DELINEATION UNIT.
- S) CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES AS STATED IN THE PHASING. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIDEWALKS (CONCRETE, ASPHALT, OR OTHER SUITABLE MATERIAL AS APPROVED BY THE ENGINEER) AT ALL LOCATIONS WHERE THE OPEN PEDESTRIAN TRAVELWAY HAS BEEN REMOVED FOR CONSTRUCTION OPERATIONS (UTILITIES, DRAINAGE, ETC.).

APPROVED:

Drawn/Sealed by:

Gerald H. McLauley

EE3785781AB9460

DATE: 6/11/2025

SEAL

SEAL

13008

ENGINEER

GERALD H. MC LAULEY

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DIVISION OF HIGHWAYS

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

WORK ZONE TRAFFIC CONTROL

TRANSPORTATION
OPERATION PLAN
GENERAL NOTES AND
MANAGEMENT STRATEGIES

STV STV Engineers, Inc.
2151 Hawkins St., Suite 1400
Charlotte, NC 28203
NC License Number F-0991

TRAFFIC MANAGEMENT STRATEGIES

ONE-LANE, TWO WAY OPERATION (FLAGGING) WORK HOUR RESTRICTIONS FOR PEAK TRAVEL
WORK HOUR RESTRICTIONS FOR PEAK TRAVEL
BUSINESS ACCESS IMPROVEMENTS

- WHEN THE WORK ZONE IS WITHIN 5' OF THE OPEN TRAVEL LANE ALONG RANDLEMAN ROAD (FROM -L- STA 13+00 ± TO -L- STA 31+00 ±) THE TEMPORARY LANE CLOSURE WILL BE REQUIRED TO BE USED DURING OFF PEAK TIMES (NIGHT WORK).

PRIOR TO ANY CONSTRUCTION ACTIVITIES, INSTALL WORK ZONE ADVANCE WARNING SIGNS ON ALL ROADWAYS INCLUDING RANDLEMAN ROAD, WEST ELMSLEY DRIVE, GLENDALE DRIVE AND ALL OTHER SIDEROADS WITHIN THE PROJECT LIMITS AND IN ACCORDANCE WITH NCDOT RSD 1101.01

USE ALTERNATING LANE CLOSURES AND FLAGGERS TO INSTALL PROPOSED DRAINAGE WHILE MAINTAINING THE EXISTING DRAINAGE. BACKFILL AND PLACE TEMPORARY PAVEMENT OR COVER EXCAVATION WITH STEEL PLATES AS NECESSARY DURING CONSTRUCTION INACTIVITY.

PHASE II

PHASE III

PHASE IV

REMOVE TEMPORARY TRAFFIC CONTROL DEVICES AND OPEN ALL TRAVEL LANES TO TRAFFIC.

APPROVED: <u>Gerald H. McCauley</u> EE3785761TABD9400 DATE: <u>6/11/2025</u>  SEAL		TEMPORARY TRAFFIC CONTROL PHASING
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PROJ. REFERENCE NO.	SHEET NO.
U-5850	TMP-4

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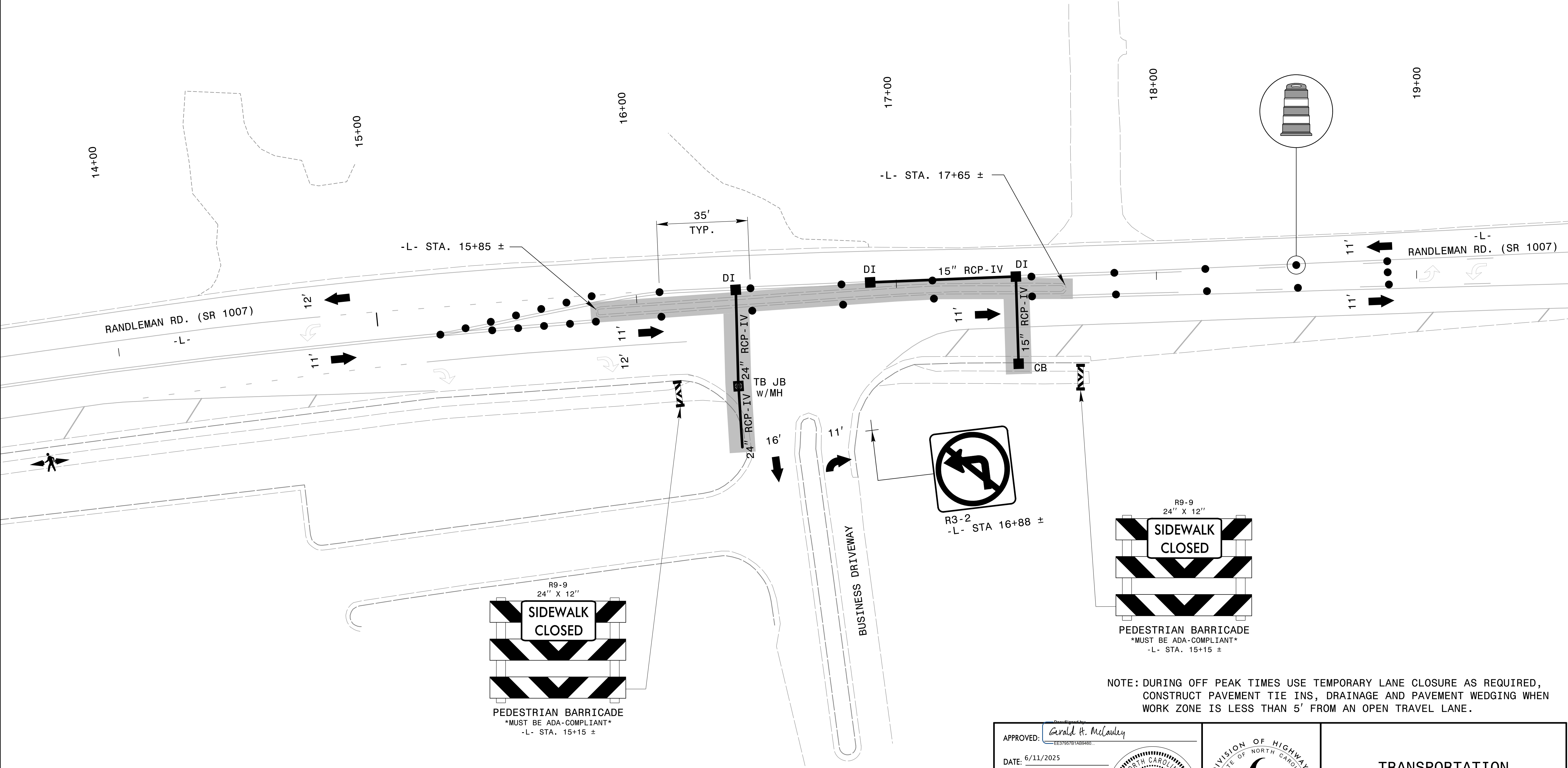
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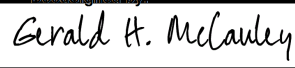
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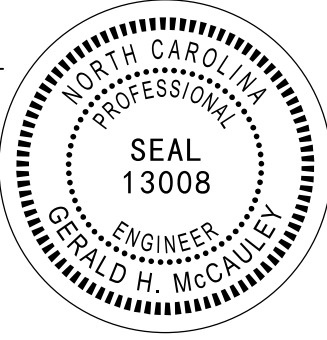
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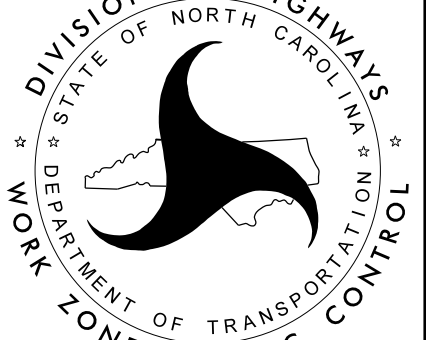


NOTE: DURING OFF PEAK TIMES USE TEMPORARY LANE CLOSURE AS REQUIRED, CONSTRUCT PAVEMENT TIE INS, DRAINAGE AND PAVEMENT WEDGING WHEN WORK ZONE IS LESS THAN 5' FROM AN OPEN TRAVEL LANE.

6/11/2025
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cdgroves

APPROVED: 
DATE: 6/11/2025

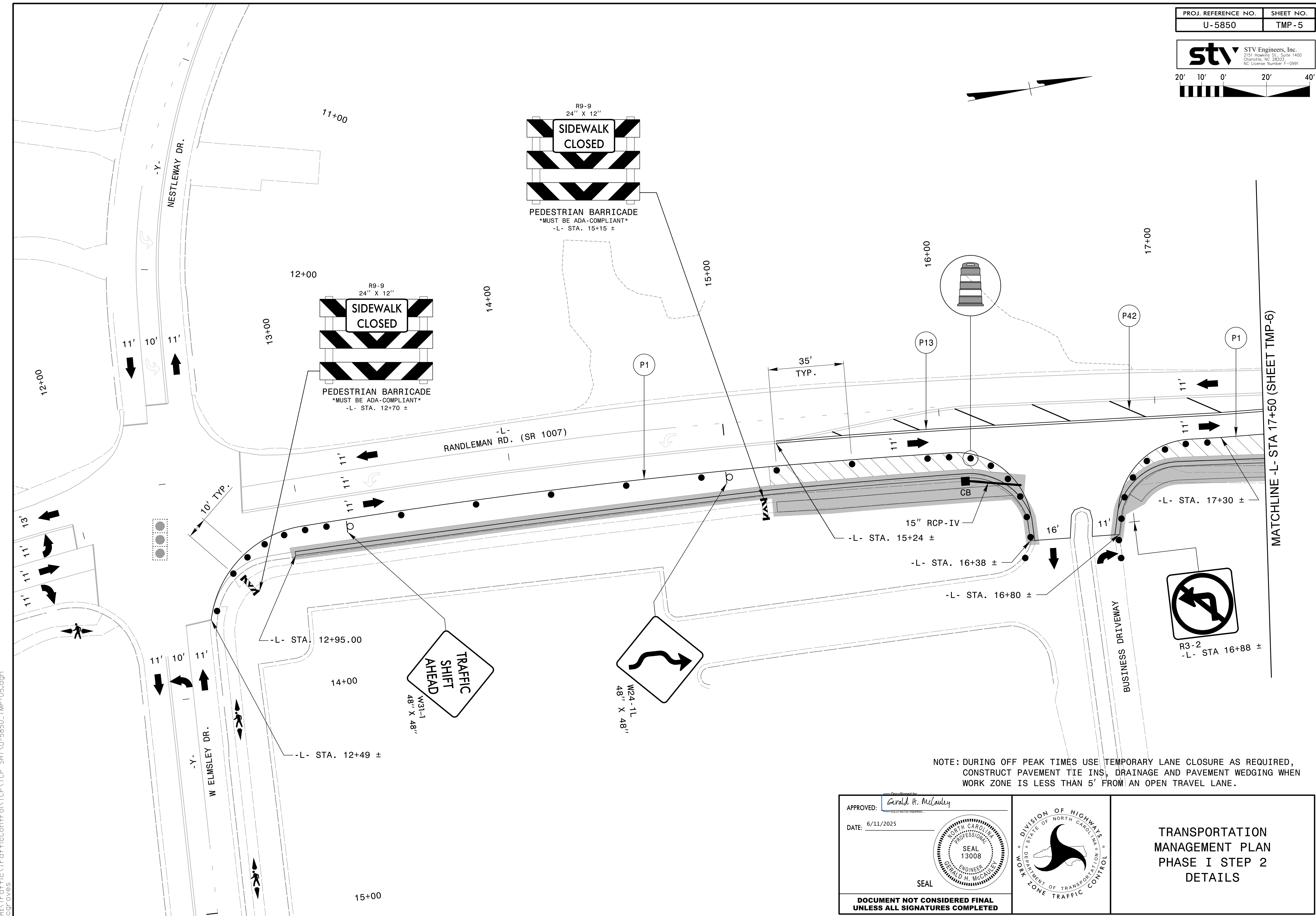
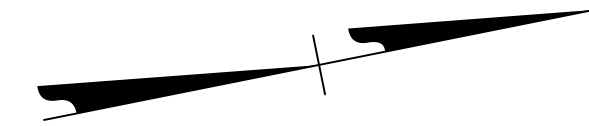

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TRANSPORTATION
MANAGEMENT PLAN
PHASE I STEP 1
DETAILS

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U-5850	TMP-5



NOTE: DURING OFF PEAK TIMES USE TEMPORARY LANE CLOSURE AS REQUIRED,
CONSTRUCT PAVEMENT TIE INS, DRAINAGE AND PAVEMENT WEDGING WHEN
WORK ZONE IS LESS THAN 5' FROM AN OPEN TRAVEL LANE.

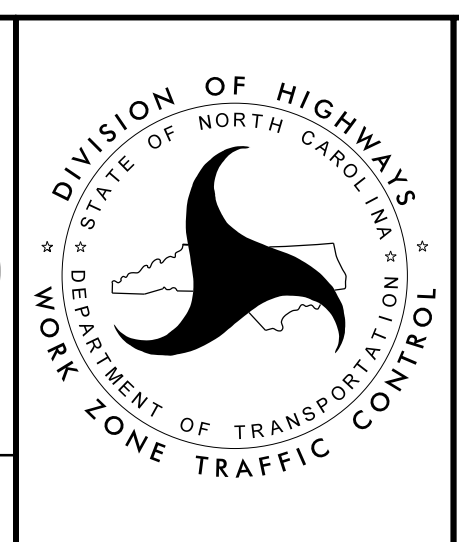
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APPROVED: _____
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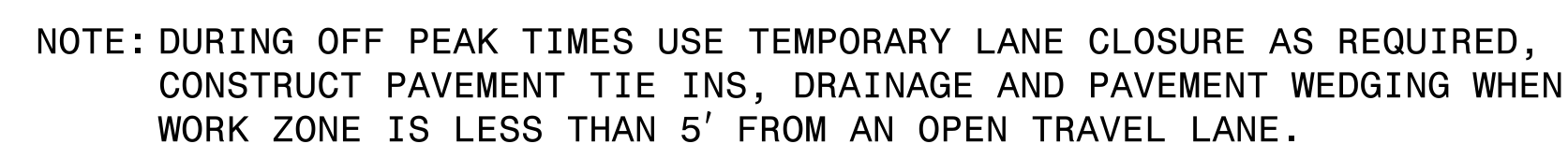
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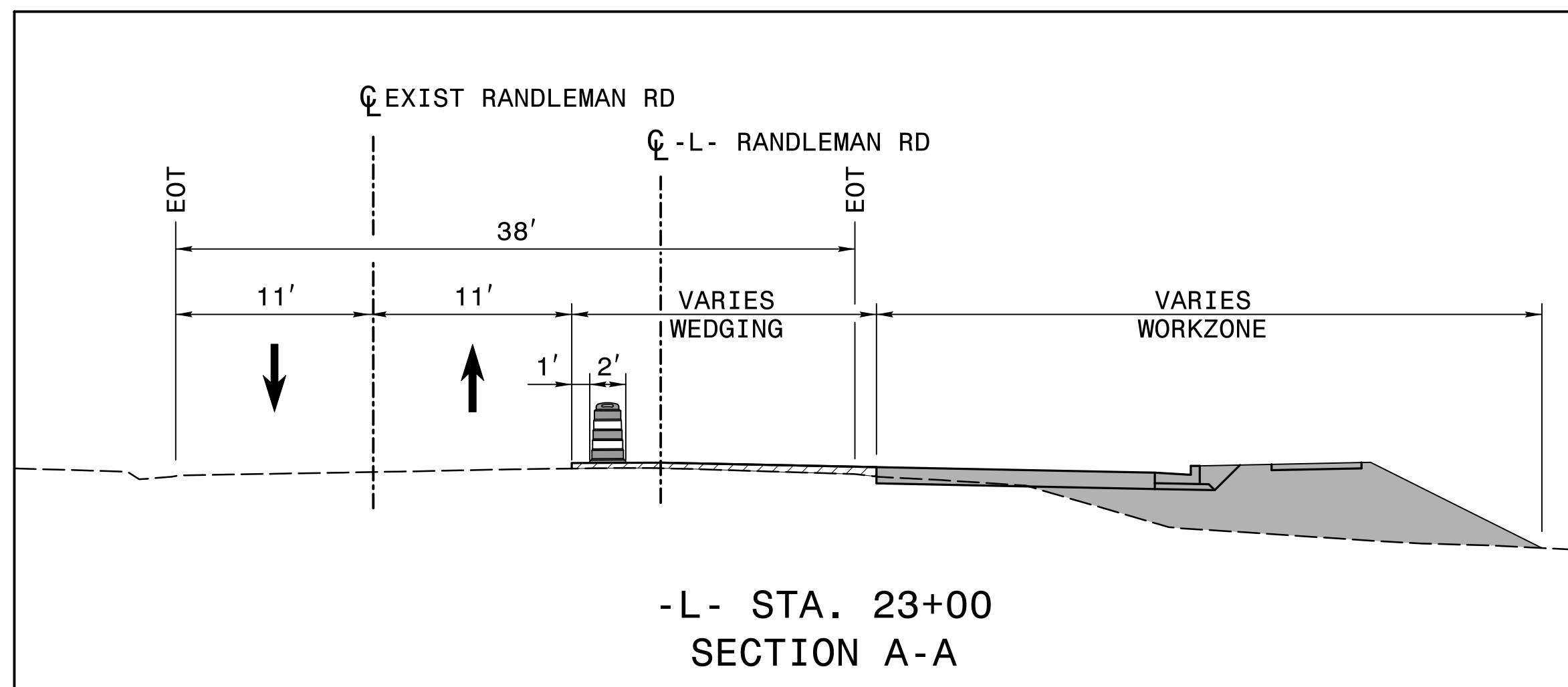


TRANSPORTATION MANAGEMENT PLAN PHASE I STEP 2 DETAILS



APPROVED: <u>Gerald H. McQuiley</u> EE376761AB9460... DATE: <u>6/11/2025</u>		
TRANSPORTATION MANAGEMENT PLAN PHASE I STEP 2 DETAILS		
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Procurement by:

APPROVED: Gerald H. McCaulley

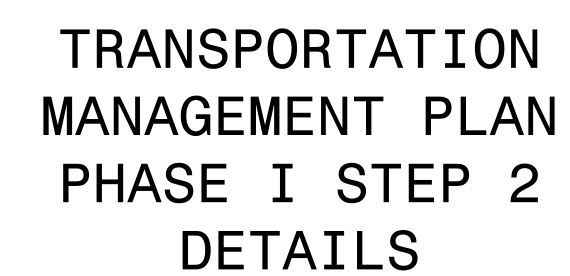
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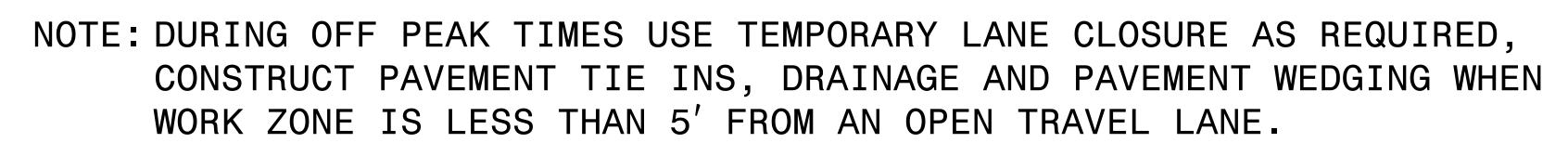
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PROFESSIONAL
SEAL
13008
ENGINEER
GERALD H. MCCAULEY

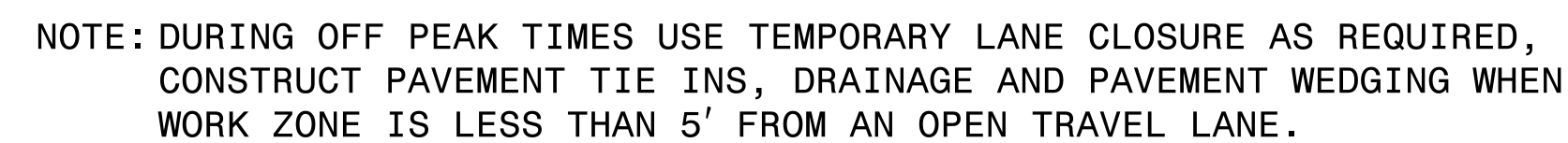
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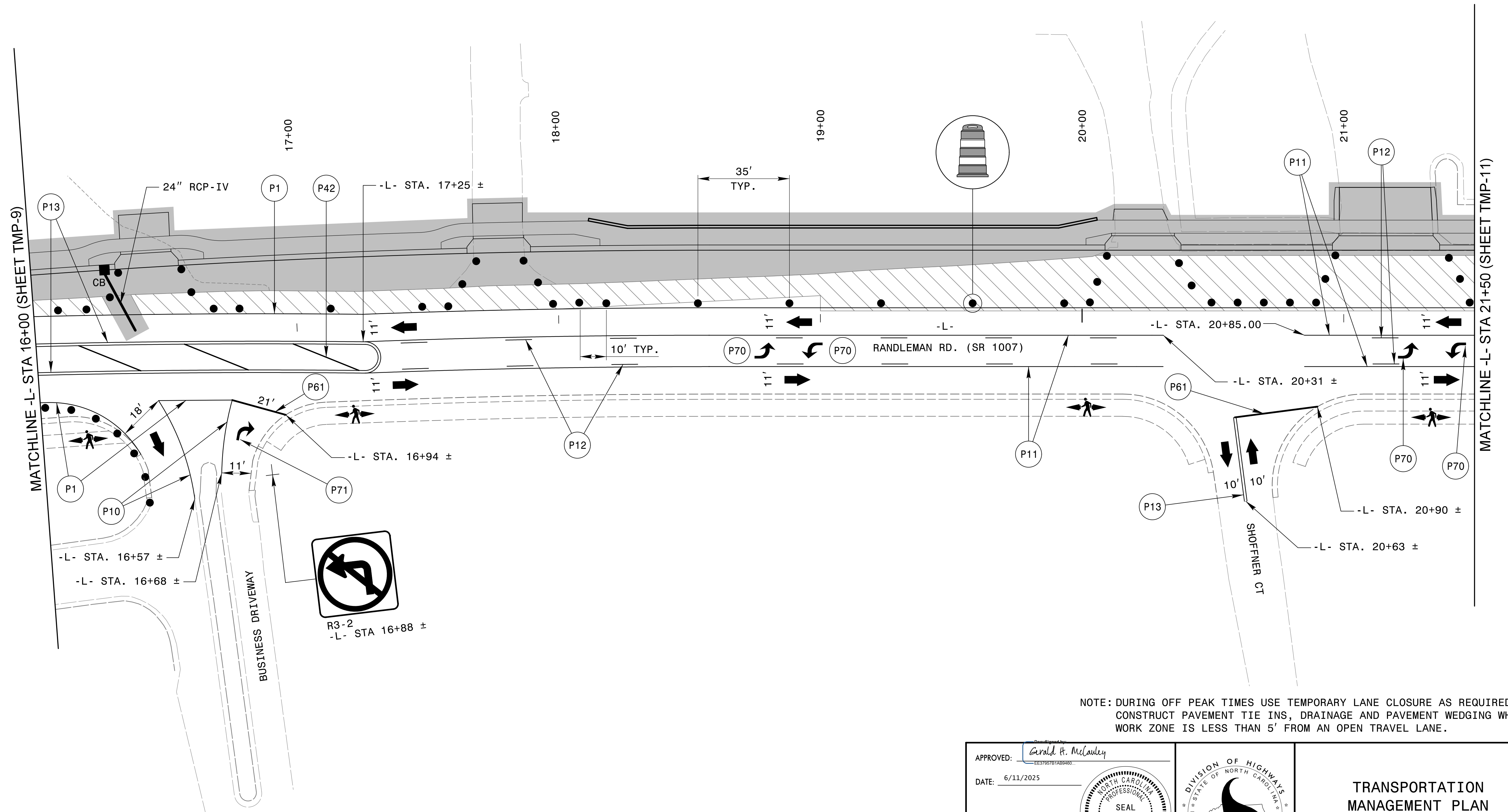
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NC License Number F-0991



APPROVED: <u>Gerald H. McLauley</u> EE3705781AB0460...		TRANSPORTATION MANAGEMENT PLAN PHASE I STEP 2 DETAILS
DATE: <u>6/11/2025</u>		
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TRANSPORTATION MANAGEMENT PLAN PHASE II STEP 1 DETAILS



NOTE: DURING OFF PEAK TIMES USE TEMPORARY LANE CLOSURE AS REQUIRED,
CONSTRUCT PAVEMENT TIE INS, DRAINAGE AND PAVEMENT WEDGING WHEN
WORK ZONE IS LESS THAN 5' FROM AN OPEN TRAVEL LANE.

DocuSigned By:
Gerald H. McCauley

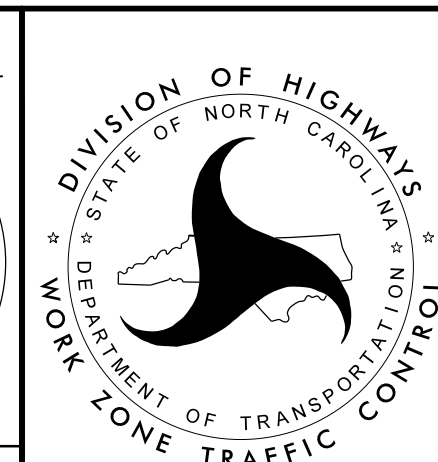
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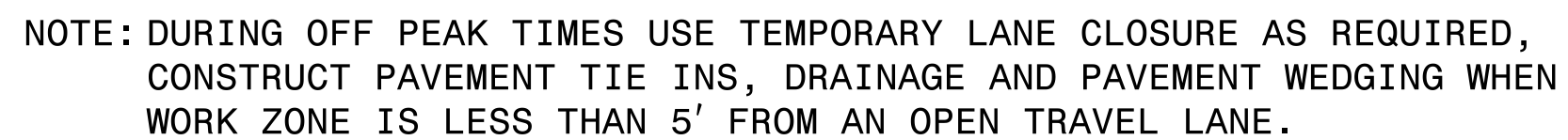
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ENGINEER
GERALD H. MCCAULEY

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TRANSPORTATION MANAGEMENT PLAN PHASE II STEP 1 DETAILS



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PROJ. REFERENCE NO.	SHEET NO.
U-5850	TMP-12

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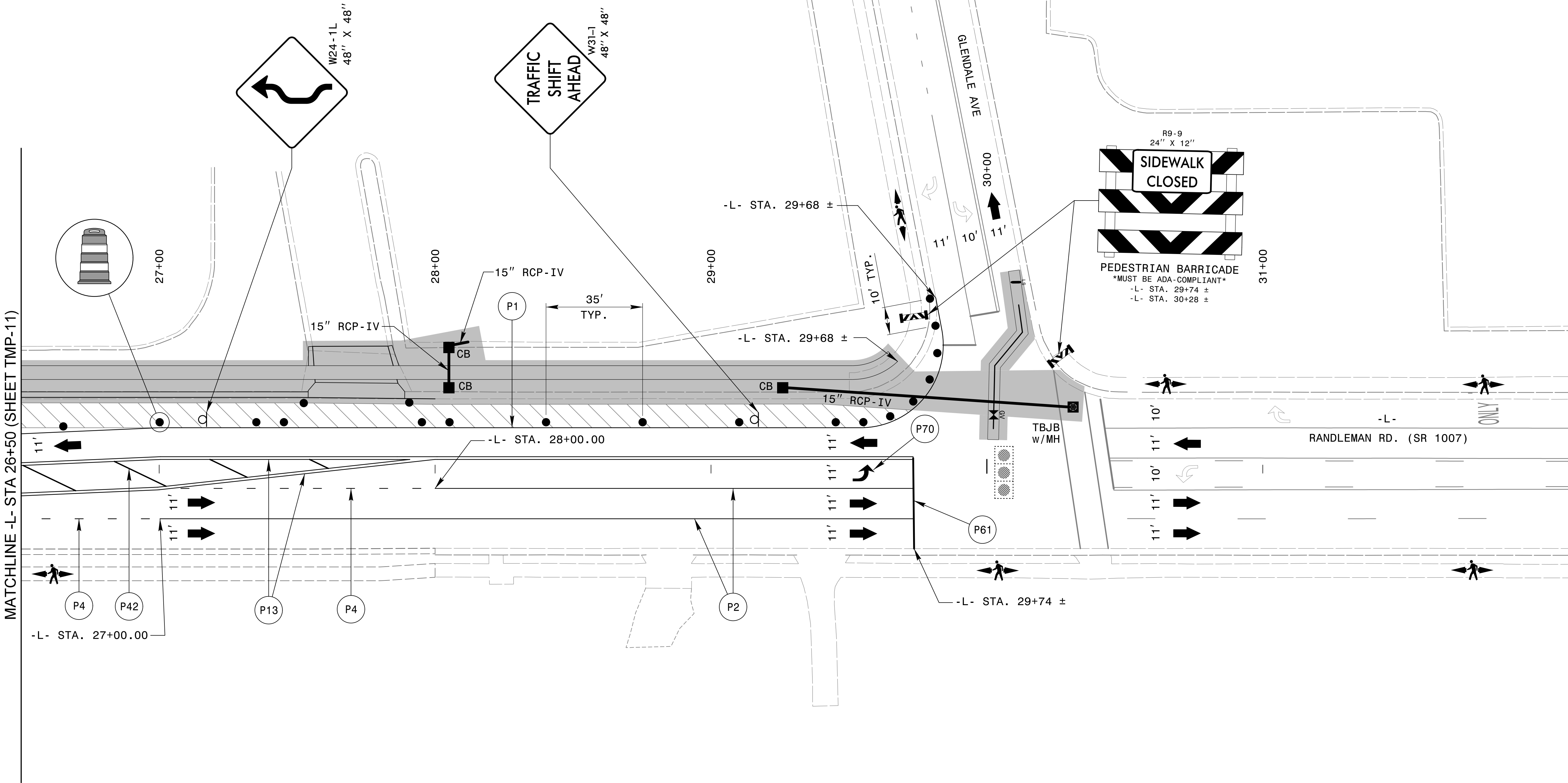
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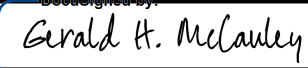
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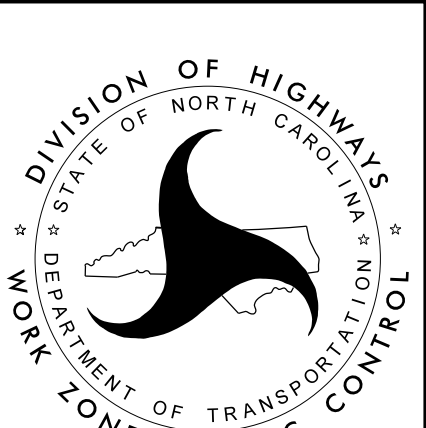
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NOTE: DURING OFF PEAK TIMES USE TEMPORARY LANE CLOSURE AS REQUIRED, CONSTRUCT PAVEMENT TIE INS, DRAINAGE AND PAVEMENT WEDGING WHEN WORK ZONE IS LESS THAN 5' FROM AN OPEN TRAVEL LANE.

APPROVED: 
DATE: 6/11/2025


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TRANSPORTATION
MANAGEMENT PLAN
PHASE II STEP 1
DETAILS

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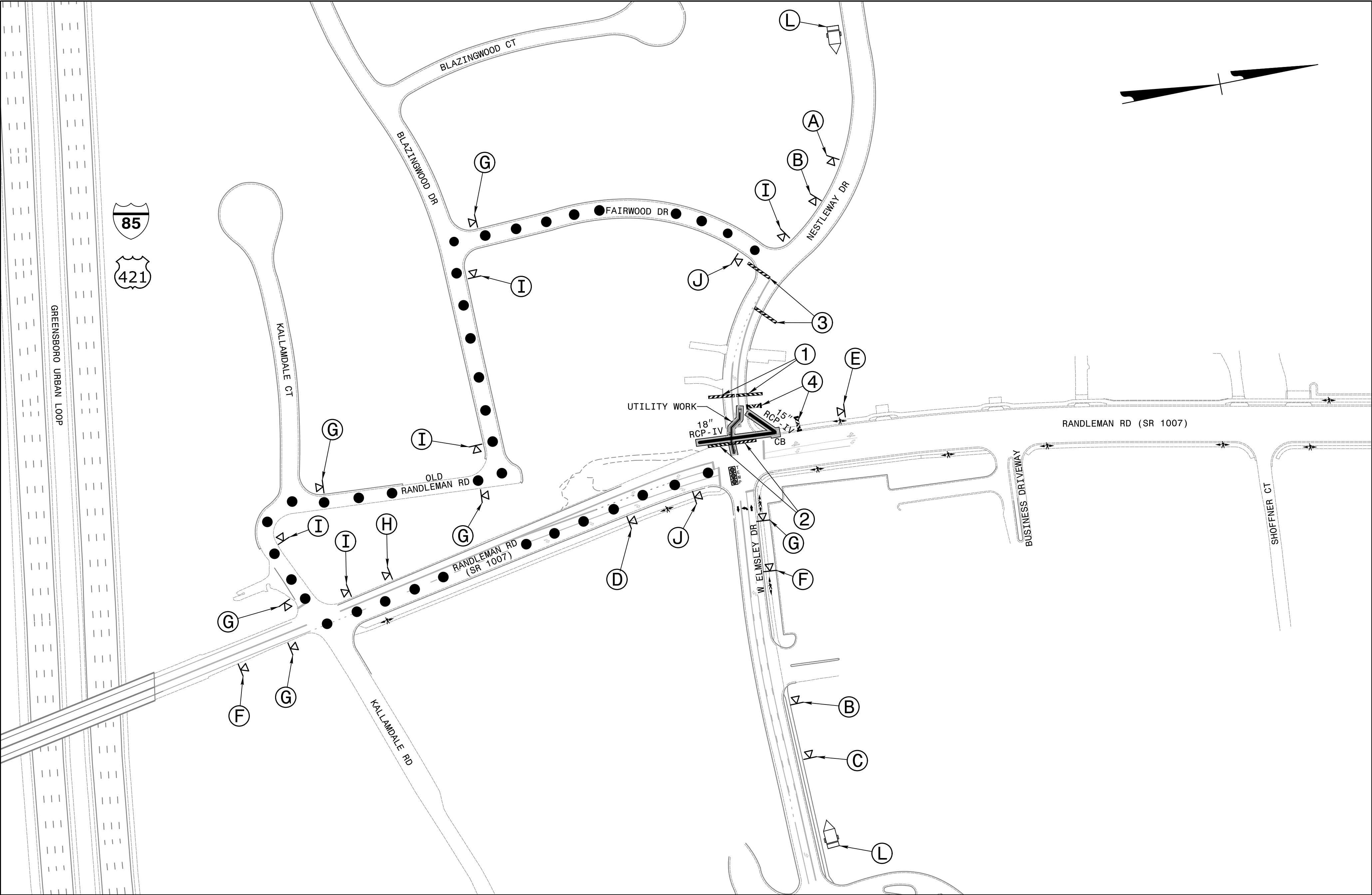
OFF-SITE DETOUR SIGNING AND ROAD CLOSURE SIGNING

PROJ. REFERENCE NO.
U-5850

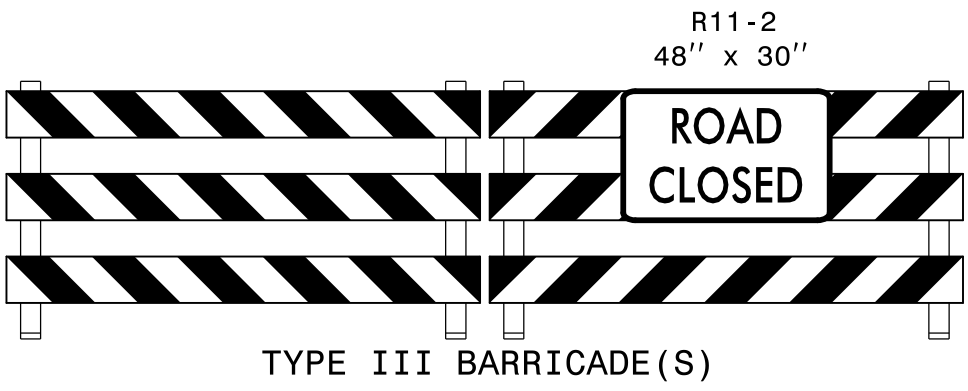
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TMP-13

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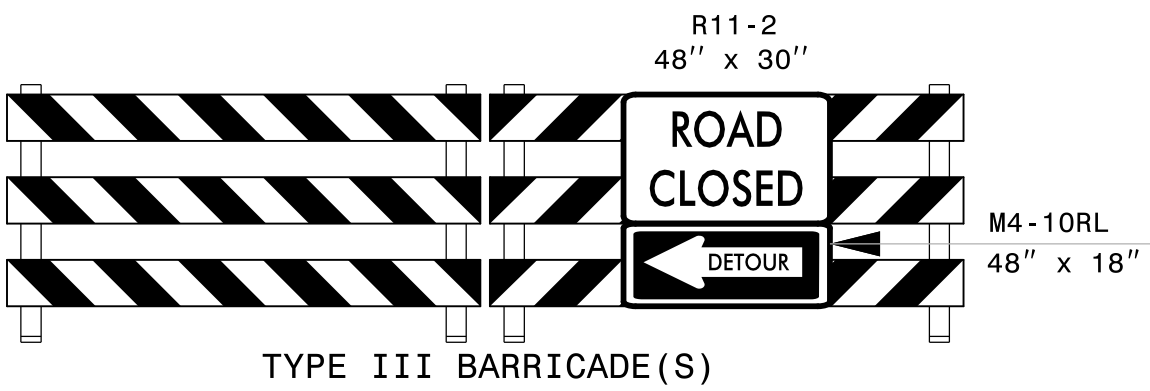
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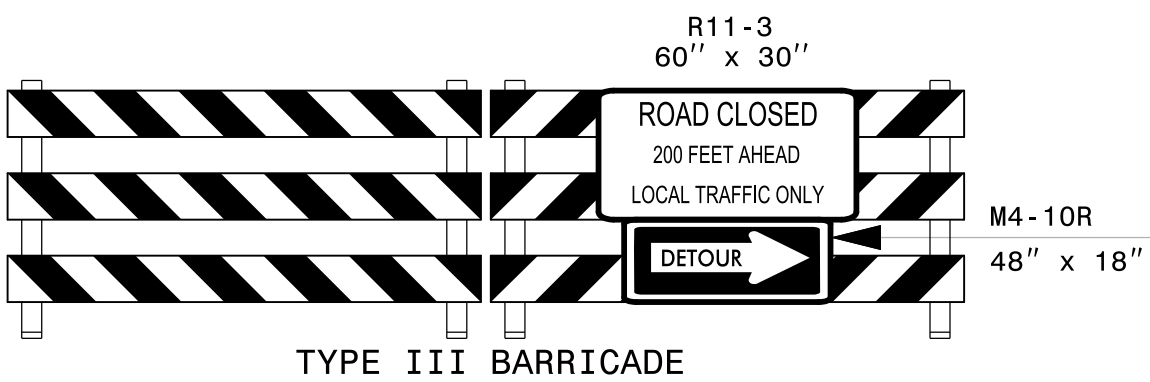
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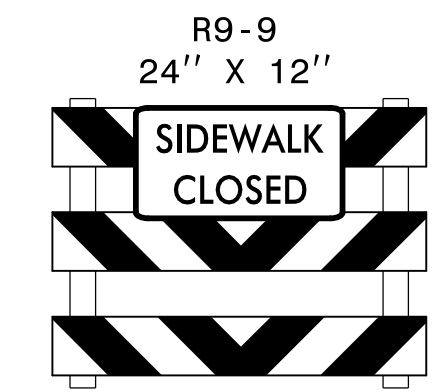
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②

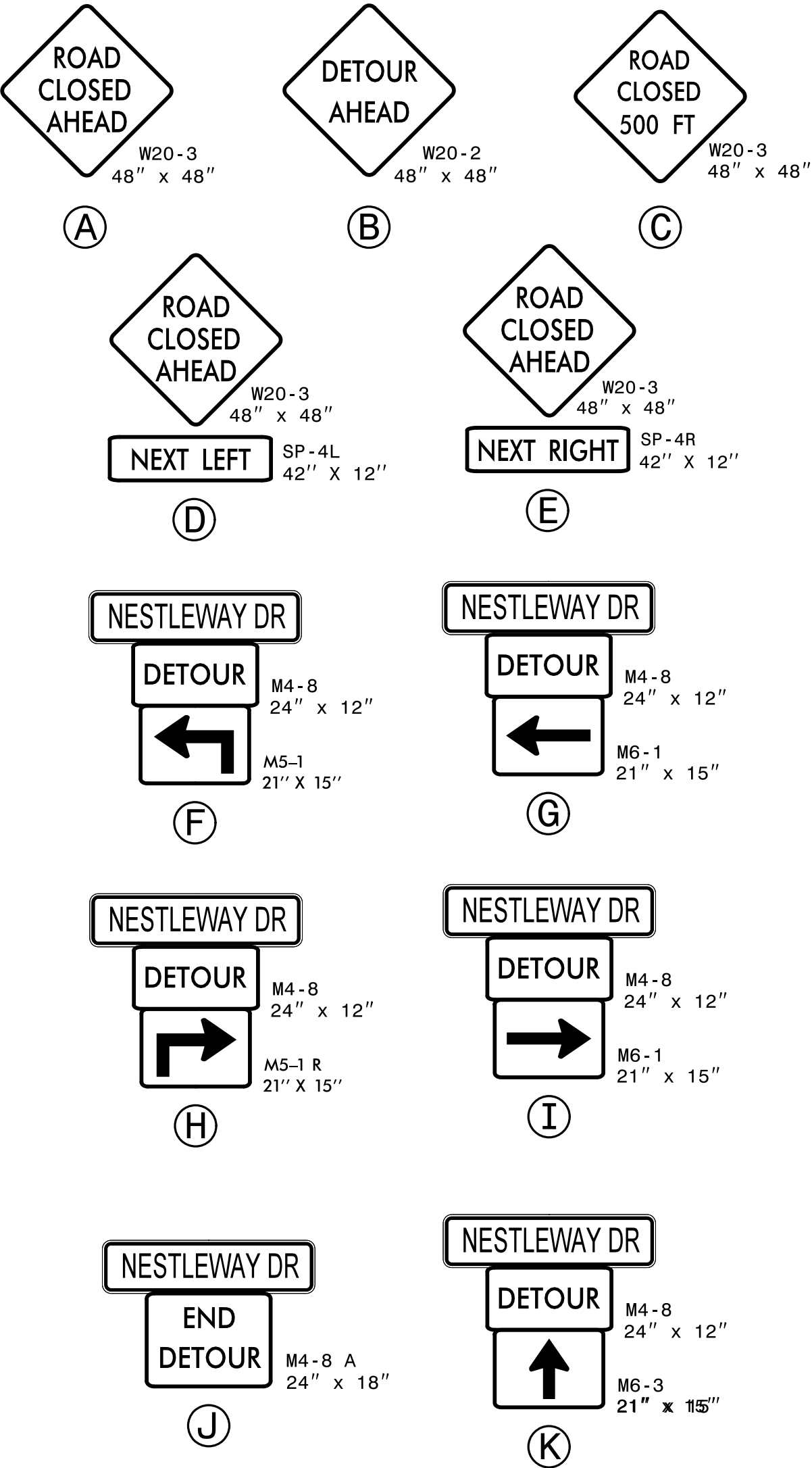


③



④

SEE ROADWAY STD DWG 1101.03, SHEET 2 OF 9 FOR
ADVANCE WARNING AND BARRICADE PLACEMENT.



MESSAGE PRIOR
TO CLOSURE:

MESSAGE NO. 1	MESSAGE NO. 2
ROAD WILL BE CLOSED	STARTING (DAY) (TIME)
CHANGEABLE MESSAGE SIGN	

MESSAGE DURING
CLOSURE:

MESSAGE NO. 1	MESSAGE NO. 2
ROAD CLOSED AHEAD	FOLLOW POSTED DETOUR
CHANGEABLE MESSAGE SIGN	

①

ROADWAY DETOUR

APPROVED:

DATE: 6/11/2025

SEAL

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



TRANSPORTATION
MANAGEMENT PLAN
PHASE II STEP 2
DETOUR ROUTE

6/11/2025
R:\Traffic\TrafficControl\TCP\TCP_SHT\U-5850_TMP-14.dgn
cdgroves

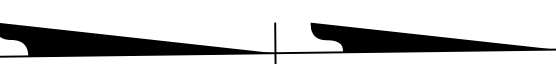
PROJ. REFERENCE NO.	SHEET NO.
U-5850	TMP-14

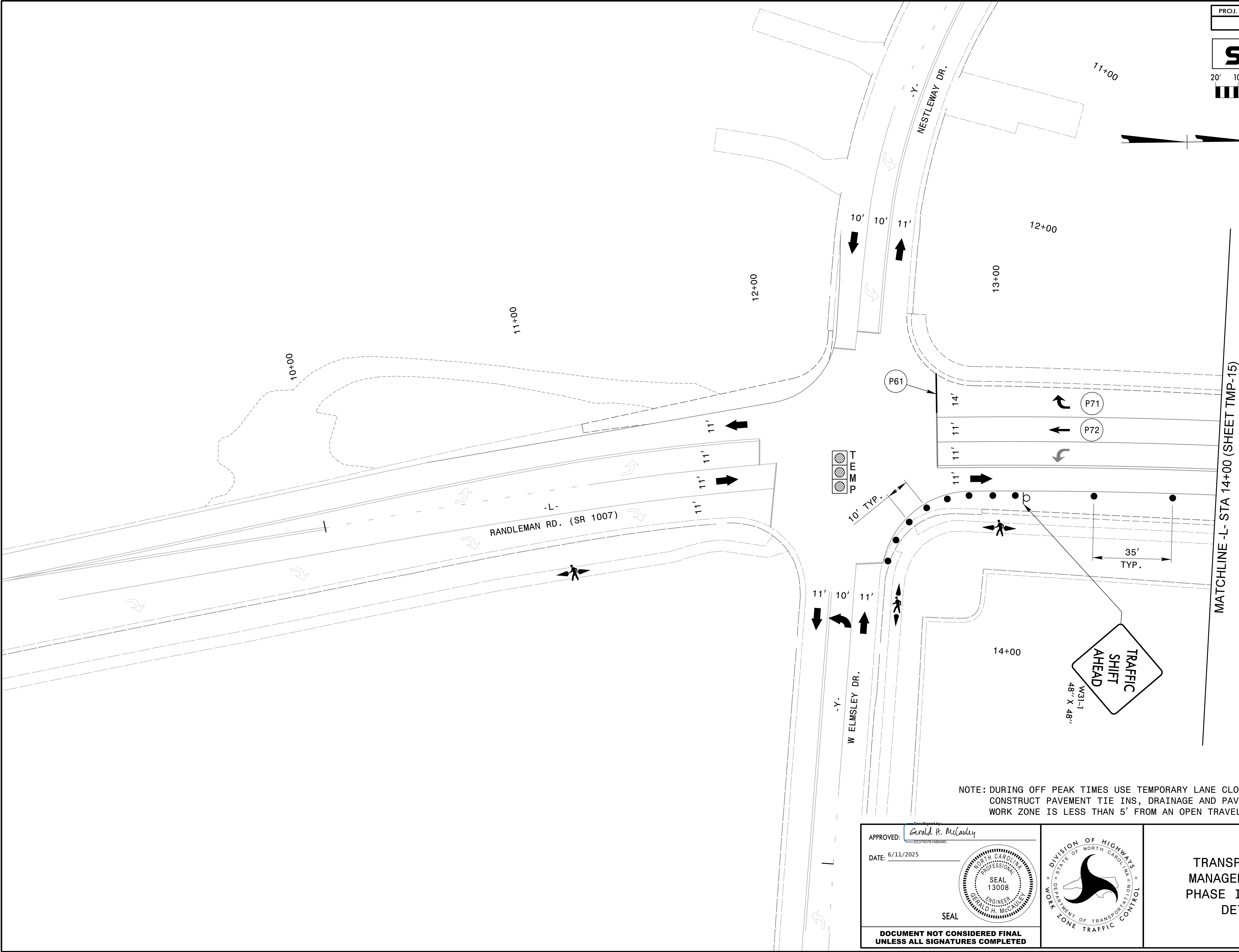


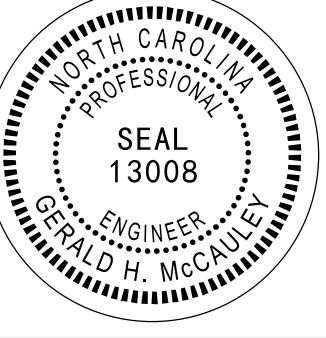
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20'10'0'20'40'







APPROVED:  DATE: 6/11/2025  SEAL DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	 DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL	TRANSPORTATION MANAGEMENT PLAN PHASE III STEP 1 DETAILS
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PROJ. REFERENCE NO.	SHEET NO.
U - 5850	TMP - 15

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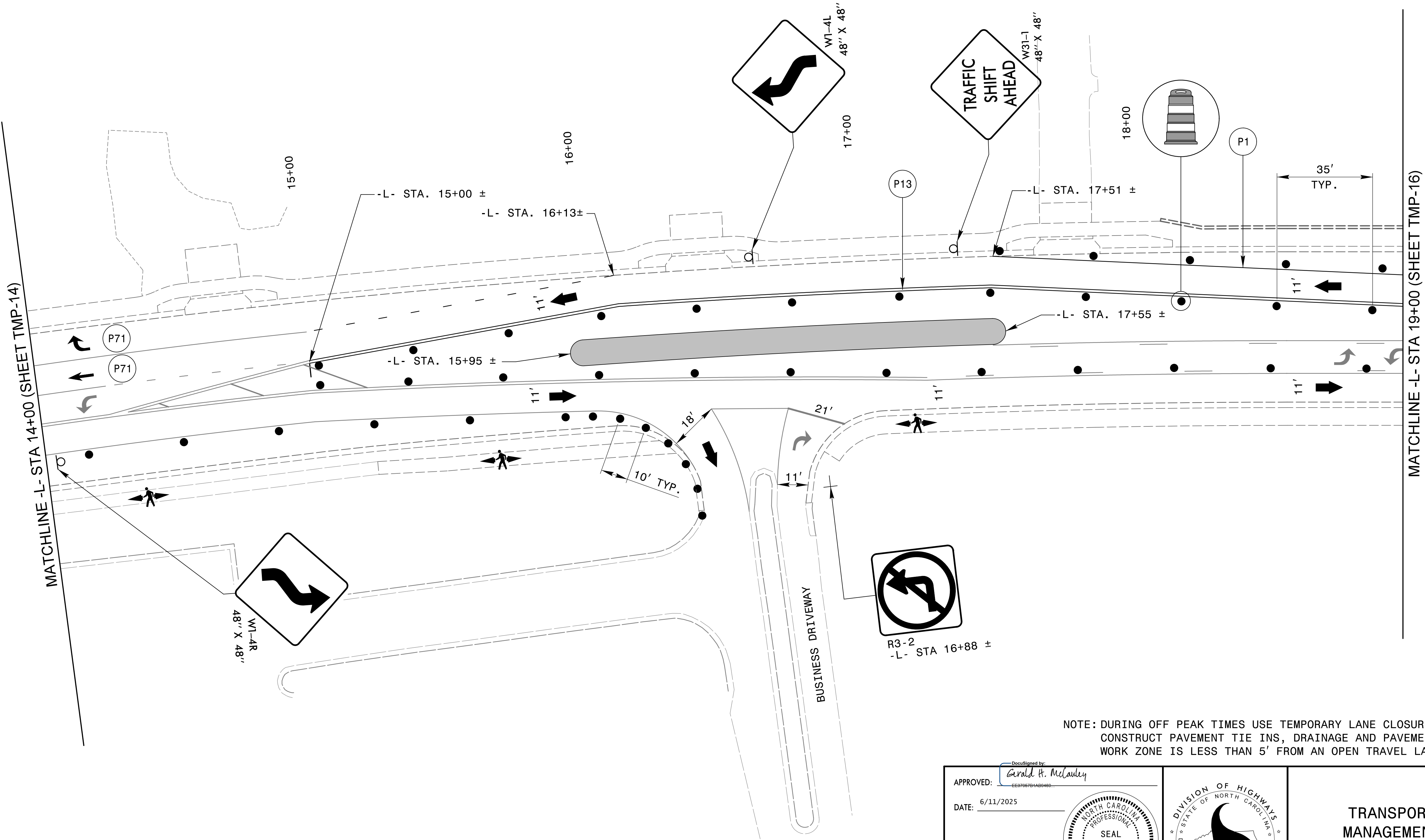
20'

10'

0'

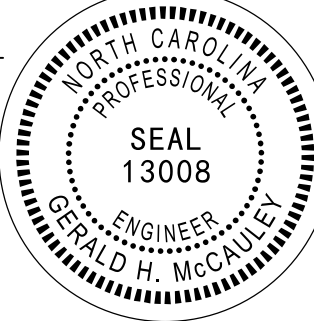
20'

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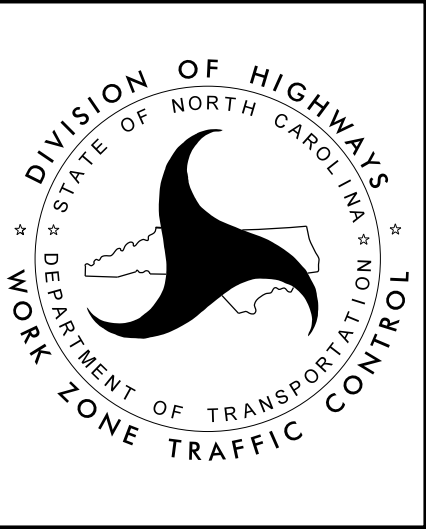


NOTE: DURING OFF PEAK TIMES USE TEMPORARY LANE CLOSURE AS REQUIRED,
CONSTRUCT PAVEMENT TIE INS, DRAINAGE AND PAVEMENT WEDGING WHEN
WORK ZONE IS LESS THAN 5' FROM AN OPEN TRAVEL LANE.

APPROVED: 
DATE: 6/11/2025


SEAL

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

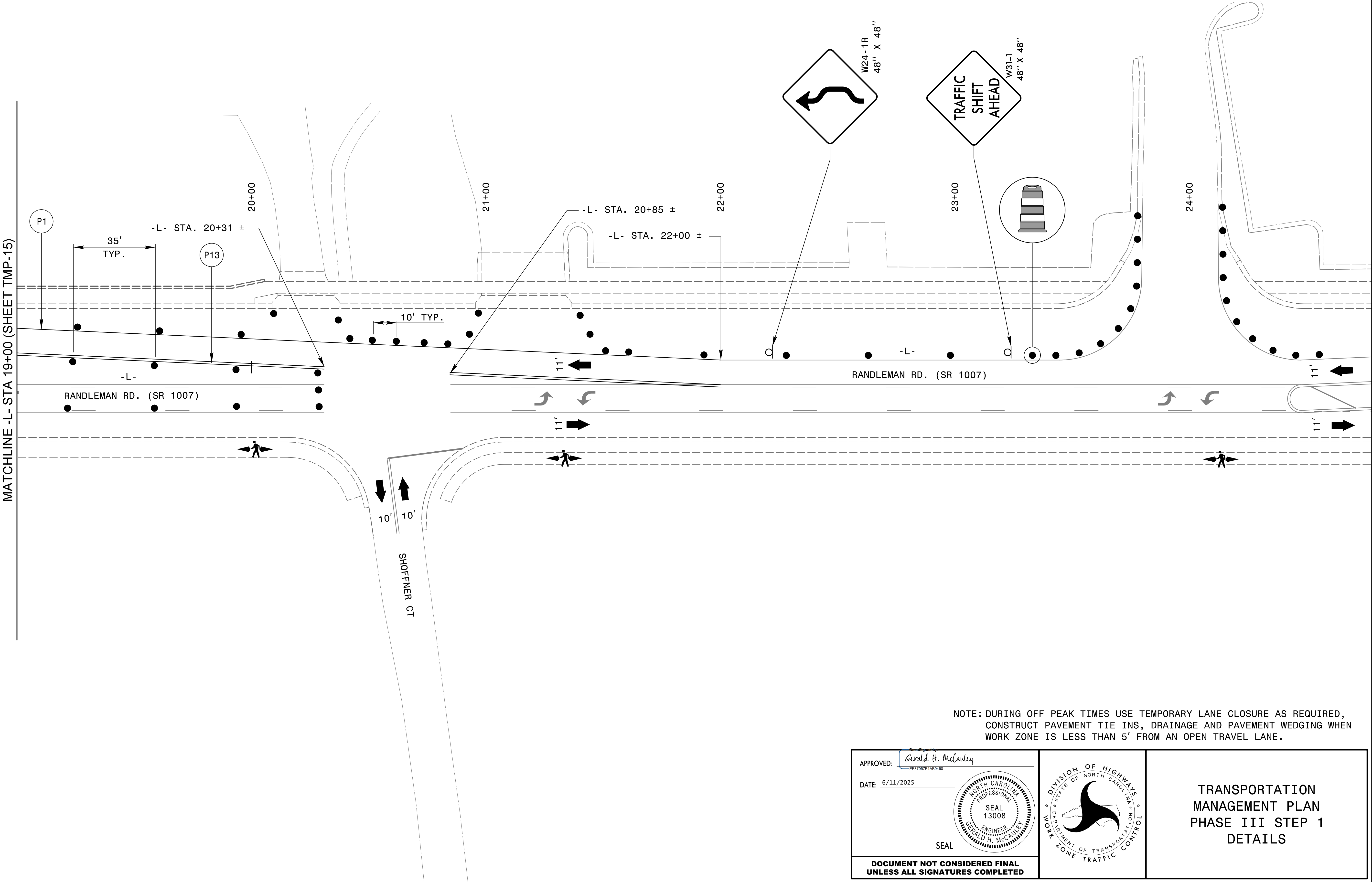
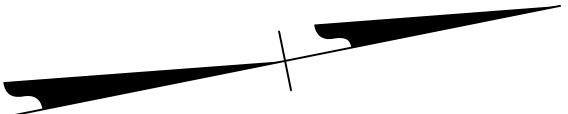


TRANSPORTATION
MANAGEMENT PLAN
PHASE III STEP 1
DETAILS

PROJ. REFERENCE NO.	SHEET NO.
U - 5850	TMP - 16

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NOTE: DURING OFF PEAK TIMES USE TEMPORARY LANE CLOSURE AS REQUIRED,
CONSTRUCT PAVEMENT TIE INS, DRAINAGE AND PAVEMENT WEDGING WHEN
WORK ZONE IS LESS THAN 5' FROM AN OPEN TRAVEL LANE.

APPROVED: *Gerald H. McLauley*
DATE: 6/11/2025

TRANSPORTATION
MANAGEMENT PLAN
PHASE III STEP 1
DETAILS

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Spacing Factor is 1 unless specified otherwise

APPROVED: <u>Gerald H. McLauley</u> EE379578TAD89460 DATE: <u>6/11/2025</u>  SEAL		TRANSPORTATION MANAGEMENT PLAN SIGN DESIGN
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		