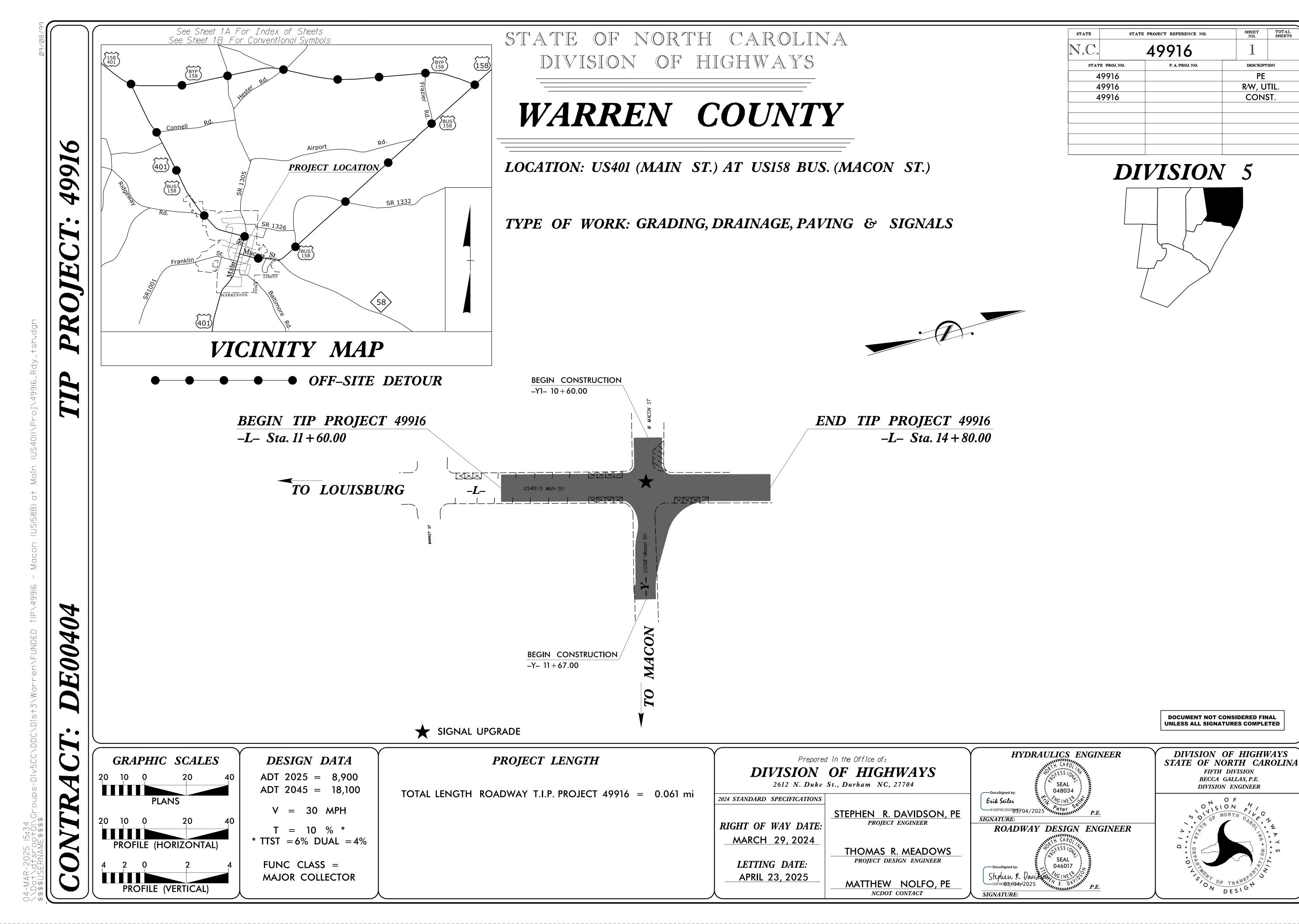
# This electronic collection of documents is provided for the convenience of the user and is Not a Certified Document –

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ROADWAY DESIGN ENGINEER 046017

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

INDEX OF SHEETS

SIGNAL PLANS

CROSS-SECTIONS

SHEET NUMBER SHEET TITLE SHEET INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS 1 A 1 B CONVENTIONAL SYMBOLS SURVEY CONTROL SHEET PAVEMENT SCHEDULE AND TYPICAL SECTIONS 2A-13B - 1ROADWAY & DRAINAGE SUMMARIES 4 AND 5 PLAN AND PROFILE SHEET TMP-1 THRU TMP-4 TRAFFIC MANAGEMENT PLANS PMP-1PAVEMENT MARKING PLANS EROSION CONTROL PLANS EC-1 THRU EC-4 SIGN-1 THRU SIGN-4 SIGNING PLANS UC-1 THRU UC-4 UTILITY CONSTRUCTION PLANS UTILITY BY OTHERS PLANS UO-1 AND UO-2

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 II.

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.05 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.

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE DUKE ENERGY (POWER) TOWN OF WARRENTON (WATER & SEWER), CENTURYLINK (FIBER), CHARTER COMMUNICATIONS (FIBER), FRONTIER NATURAL GAS COMPANY (GAS) & MCNC (BROADBAND)

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

CURB RAMPS

CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS, CONSTRUCT ALL CURB RAMPS ACCORDANCE WITH STD 848,06.

EFF. 01-16-2024

2024 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Contracts Standards and Development Unit - N. C. Department of Transportation - Raleigh, N. C., Dated January 16, 2024 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.

DIVISION 2. - EARTHWORK

Method of Clearing - Method II Guide for Grading Subgrade - Secondary and Local Method of Obtaining Superelevation - Two Lane Pavement

DIVISION 3 - PIPE CULVERTS 300.01 Method of Pipe Installation

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
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
840.25 Anchorage for Frames - Brick or Concrete or Precast
840.34 Traffic Bearing Junction Box - for Use with Pipes 42" and Under
840.45 Precast Drainage Structure
840.54 Manhole Frame and Cover
846.01 Concrete Curb, Gutter and Curb & Gutter
848.01 Concrete Sidewalk
848.06 Curb Ramp

Curb Ramp

Steel Bollards

SIG-1 THRU SIG-6

X-1 THRU X-8

Note: Not to Scale

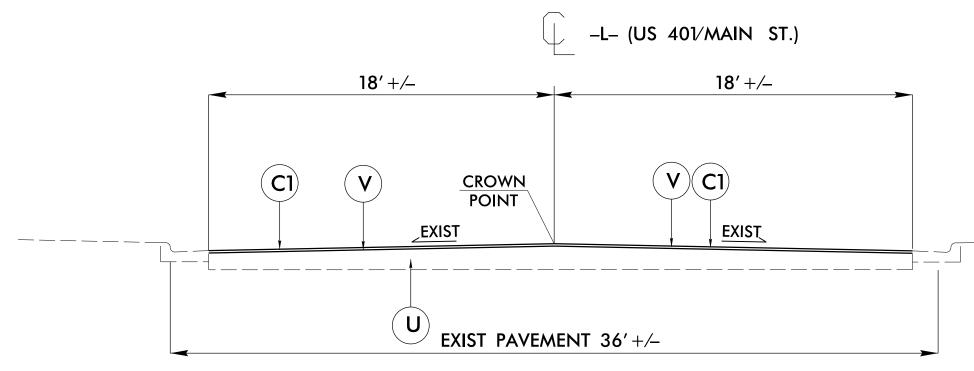
PROJECT REFERENCE NO.	S
49916	

# CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY	<b>Y.</b> •	RAILROADS:	
State Line —		Standard Gauge	CSX TRANSPORTATION
County Line		RR Signal Milepost	MILEPOST 35
Township Line		Switch -	SWITCH
City Line		RR Abandoned	
Reservation Line	· ·	RR Dismantled	
Property Line		RIGHT OF WAY & PROJECT CO	NTPOI .
Existing Iron Pin (EIP)	<u></u>		MINOL.
Computed Property Corner	×	Primary Hariz and Vart Control Paint	
Existing Concrete Monument (ECM)	 ECM	Primary Horiz and Vert Control Point  Secondary Horiz and Vert Control Point	
Parcel/Sequence Number		Vertical Benchmark	
Existing Fence Line	×××_	Existing Right of Way Monument———	
Proposed Woven Wire Fence		Proposed Right of Way Monument ————	<u> </u>
Proposed Chain Link Fence		(Rebar and Cap)	
Proposed Barbed Wire Fence	<del></del>	Proposed Right of Way Monument ————————————————————————————————————	
Existing Wetland Boundary		Existing Permanent Easement Monument ——	$\langle \cdot \rangle$
Proposed Wetland Boundary		Proposed Permanent Easement Monument —— (Rebar and Cap)	<b>♦</b>
Existing Endangered Animal Boundary		Existing C/A Monument —	$\triangle$
Existing Endangered Plant Boundary  Existing Historic Property Boundary		Proposed C/A Monument (Rebar and Cap) —	<b>A</b>
		Proposed C/A Monument (Concrete) ———	
Known Contamination Area: Soil		Existing Right of Way Line	
Potential Contamination Area: Soil		Proposed Right of Way Line ————	
Known Contamination Area: Water		Existing Control of Access Line ————	
Potential Contamination Area: Water		Proposed Control of Access Line ————	
Contaminated Site: Known or Potential —		Proposed ROW and CA Line ————	
BUILDINGS AND OTHER CUI		Existing Easement Line ————————————————————————————————————	
Gas Pump Vent or U/G Tank Cap		Proposed Temporary Construction Easement—	
Sign —	S	Proposed Temporary Drainage Easement ——	
Well —	"	Proposed Permanent Drainage Easement —	
Small Mine	— ×	Proposed Permanent Drainage/Utility Easement	
Foundation —		Proposed Permanent Utility Easement ———	
Area Outline		Proposed Temporary Utility Easement ———	
Cemetery		Proposed Aerial Utility Easement ————	——AUE——
Building —	<del></del>	ROADS AND RELATED FEATURE	
School		Existing Edge of Pavement	
Church		Existing Curb	
Dam —		Proposed Slope Stakes Cut	
HYDROLOGY:		Proposed Slope Stakes Fill	
Stream or Body of Water —		Proposed Curb Ramp	
Hydro, Pool or Reservoir		Existing Metal Guardrail	
Jurisdictional Stream		Proposed Guardrail	
Buffer Zone 2		Existing Cable Guiderail	
Buffer Zone 2 — Flow Arrow — Fl		Proposed Cable Guiderail	
Disappearing Stream —		Equality Symbol	lacktriangle
Spring ————————————————————————————————————		Pavement Removal	
Wetland —		VEGETATION:	
Proposed Lateral, Tail, Head Ditch		Single Tree	슌
False Sump	FLOW	Single Shrub	£3
I WISC COLLID		Hedge ————	······································

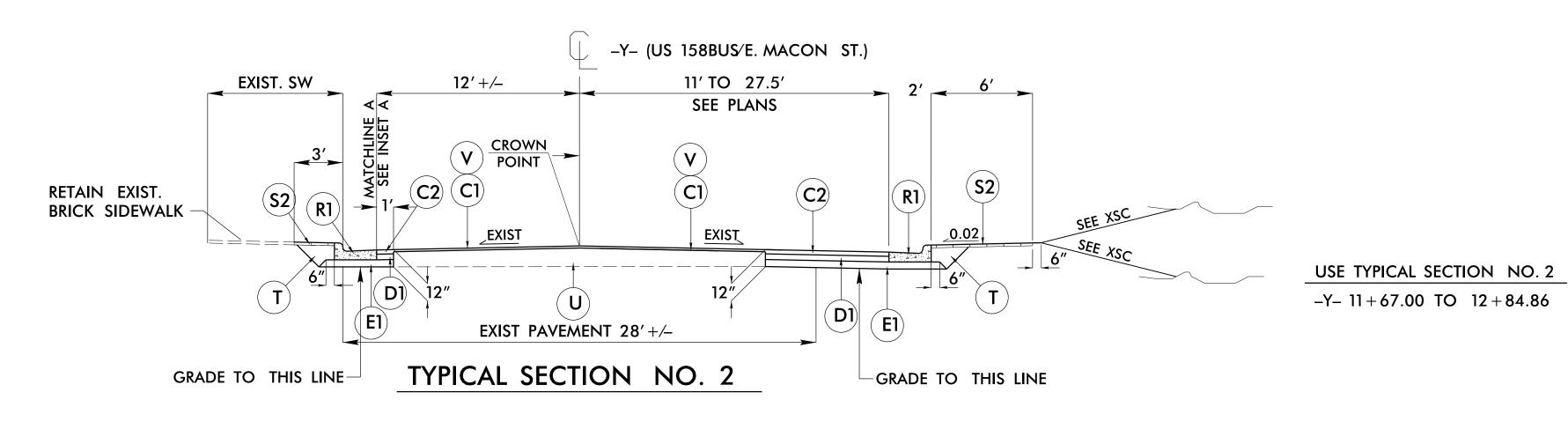
		WAILK:	
Woods Line		Water Manhole	W
Orchard	- & & & &	Water Meter ———————————————————————————————————	
Vineyard ————————————————————————————————————	- Vineyard	Water Valve	$\otimes$
EXISTING STRUCTURES:		Water Hydrant ————————————————————————————————————	
MAJOR:		U/G Water Line Test Hole (SUE – LOS A)*—	•
Bridge, Tunnel or Box Culvert ————	CONC	U/G Water Line (SUE – LOS B)* —————	
Bridge Wing Wall, Head Wall and End Wall		U/G Water Line (SUE — LOS C)*	
MINOR:		U/G Water Line (SUE — LOS D)*	
Head and End Wall	CONC HW	Above Ground Water Line	A/G Water
Pipe Culvert —		TV:	
Footbridge ——————	>	TV Pedestal ————————————————————————————————————	
Drainage Box: Catch Basin, DI or JB ———		TV Tower —	$\bigotimes$
Paved Ditch Gutter		U/G TV Cable Hand Hole	$H_{H}$
Storm Sewer Manhole —	(\$)	U/G TV Test Hole (SUE – LOS A)*	•
Storm Sewer	S	U/G TV Cable (SUE – LOS B)*	
UTILITIES:		U/G TV Cable (SUE – LOS C)*	
* SUE – Subsurface Utility Engineering		U/G TV Cable (SUE – LOS D)*	TV
LOS – Level of Service – A,B,C or D	(Accuracy)	U/G Fiber Optic Cable (SUE – LOS B)* ——	— — — TV FO— —
POWER:	1	U/G Fiber Optic Cable (SUE – LOS C)* —	TV FO
Existing Power Pole	- <b>•</b>	U/G Fiber Optic Cable (SUE – LOS D)* ——	TV FO
Proposed Power Pole		GAS:	
Existing Joint Use Pole	1	Gas Valve	$\Diamond$
Proposed Joint Use Pole		Gas Meter ———————	$\Diamond$
Power Manhole	- P	U/G Gas Line Test Hole (SUE – LOS A)* —	•
Power Line Tower		U/G Gas Line (SUE – LOS B)*	G
Power Transformer ———————————————————————————————————	-	U/G Gas Line (SUE – LOS C)*	
U/G Power Cable Hand Hole	- H <sub>H</sub>	U/G Gas Line (SUE – LOS D)*	
H-Frame Pole	•	Above Ground Gas Line	A/G Gas
U/G Power Line Test Hole (SUE – LOS A)*	•	SANITARY SEWER:	
U/G Power Line (SUE – LOS B)*		Sanitary Sewer Manhole	
U/G Power Line (SUE – LOS C)*		Sanitary Sewer Cleanout —————	$\bigoplus$
U/G Power Line (SUE – LOS D)*	P ———	U/G Sanitary Sewer Line ————————————————————————————————————	SS
TELEPHONE:		Above Ground Sanitary Sewer ——————	A/G Sanitary Sewe
Existing Telephone Pole		SS Force Main Line Test Hole (SUE – LOS A)*	•
Proposed Telephone Pole	-0-	SS Force Main Line (SUE – LOS B)* ———	— — — FSS— — -
Telephone Manhole		SS Force Main Line (SUE – LOS C)* ————	—— — FSS— — -
Telephone Pedestal	-	SS Force Main Line (SUE – LOS D)* ———	F\$\$
Telephone Cell Tower	- <b>,</b>	MISCELLANEOUS:	
U/G Telephone Cable Hand Hole	HH	Utility Pole ——————	•
U/G Telephone Test Hole (SUE – LOS A)* —	- •	Utility Pole with Base —————	$\overline{}$
U/G Telephone Cable (SUE – LOS B)*		Utility Located Object —	$\odot$
U/G Telephone Cable (SUE – LOS C)*		Utility Traffic Signal Box —	S
U/G Telephone Cable (SUE – LOS D)*	т——т	Utility Unknown U/G Line (SUE – LOS B)* — –	?UTL
U/G Telephone Conduit (SUE – LOS B)*	TC	U/G Tank; Water, Gas, Oil	
U/G Telephone Conduit (SUE – LOS C)*		Underground Storage Tank, Approx. Loc. ——	(UST)
U/G Telephone Conduit (SUE – LOS D)*		A/G Tank; Water, Gas, Oil —	
U/G Fiber Optics Cable (SUE – LOS B)*		Geoenvironmental Boring	
U/G Fiber Optics Cable (SUE – LOS C)*		•	AATUR
		and an analy in the state of th	/~~ I U I\

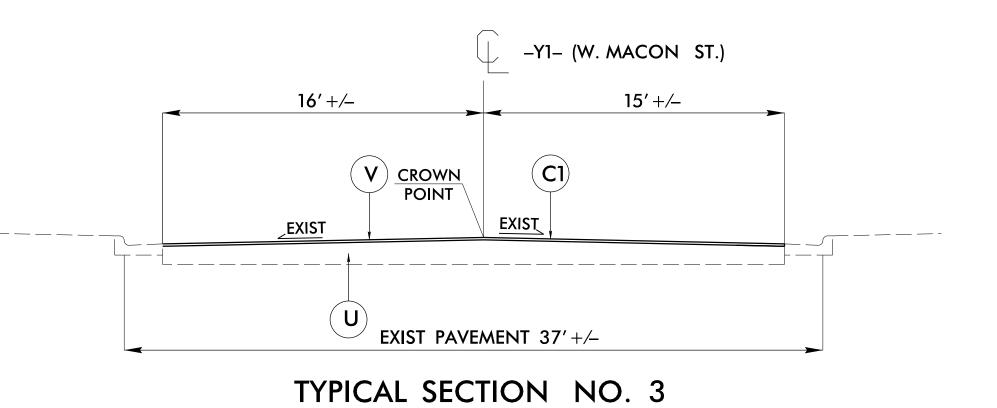
WATER:



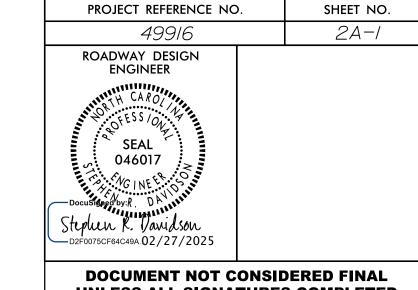
USE TYPICAL SECTION NO. 1 -L- 11+60.00 TO 14+80.00

# TYPICAL SECTION NO. 1

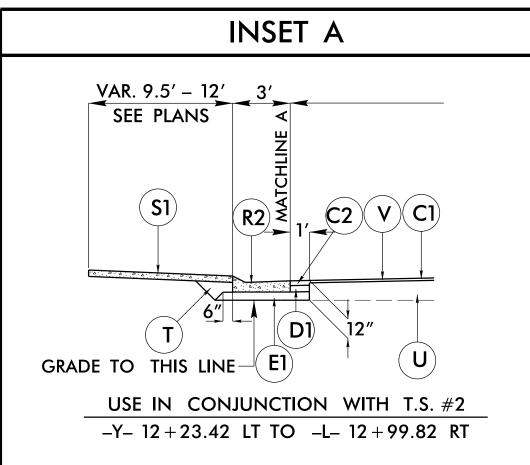


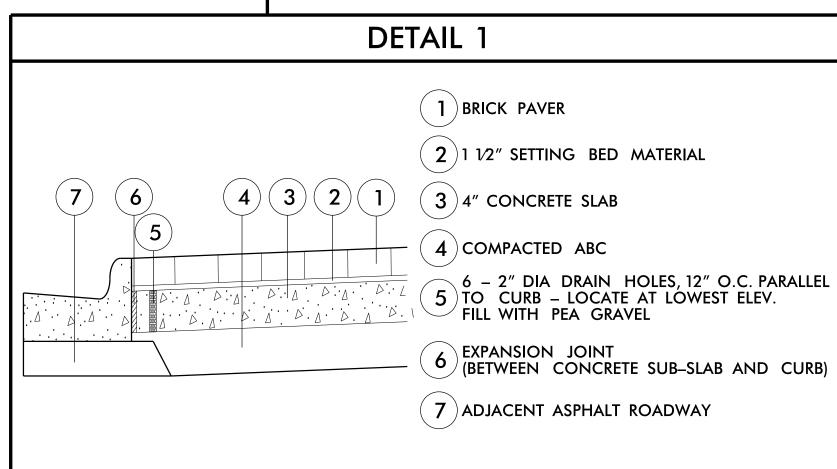


USE TYPICAL SECTION NO. 3 -Y1- 10+28.52 TO 10+60.00



**UNLESS ALL SIGNATURES COMPLETED** 





COMPUTED BY: \_\_\_\_\_\_ DATE: \_\_\_\_\_\_\_ DATE: \_\_\_\_\_\_

# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

DDO IFCT DEFEDENCE NO	CLIEFT NO
PROJECT REFERENCE NO.	SHEET NO.
49916	3 <i>R-I</i>

# SUMMARY OF MILLING ASPHALT PAVEMENT

YD <sup>2</sup>	LOCATION LT/RT/CL	STATION	STATION	SURVEY LINE
1,013	CL	14+06.50	11 + 60.00	-L-
300	CL	12 + 81.39	11 + 84.00	_Y_
172.33	CL	10+60.00	10 + 28.52	-Y1-
1,485.33	TOTAL:			
1,500	SAY:			

# SUMMARY OF EARTHWORK

STATION	STATION	UNCL. EXCAV.	EMBANK. +%	BORROW	WASTE
_L_ RT 11+60.00	_L_ RT 13+20.00	4	0	0	4
_Y_ LT 11+60.00	_Y_ LT 12 + 80.00	17	0	0	17
SUBTO	OTALS:	21	0	0	21
_L_ RT 13+40.00	_L_ RT 14+80.00	34	0	0	34
_Y_ RT 11+60.00	_Y_ RT 12 + 80.00	94	0	0	94
SUBTO	OTALS:	128	0	0	128
PROJECT	TOTALS:	149	0	0	149
	_				
SA	AY:	200			
			0	V	147

BACKFILL WITH INCIDENTAL STONE = 100 TONS

CONTACT ROBERT DAVIE (TOWN ADMINISTRATOR) & CYNTHIA JENKIN (PRESIDENT WARRENTON PRESERVATION) BEFORE GRADING PARCEL 1

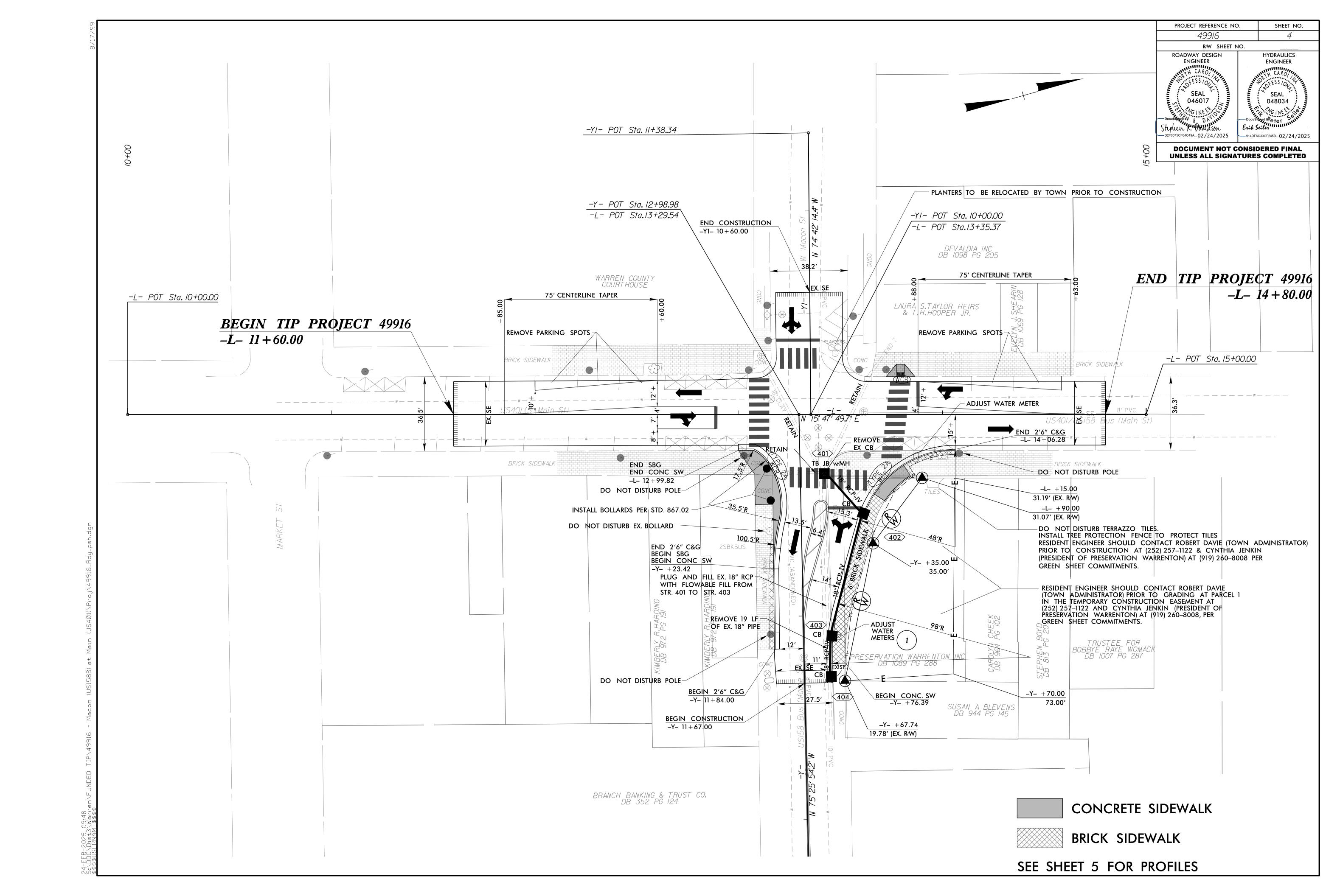
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

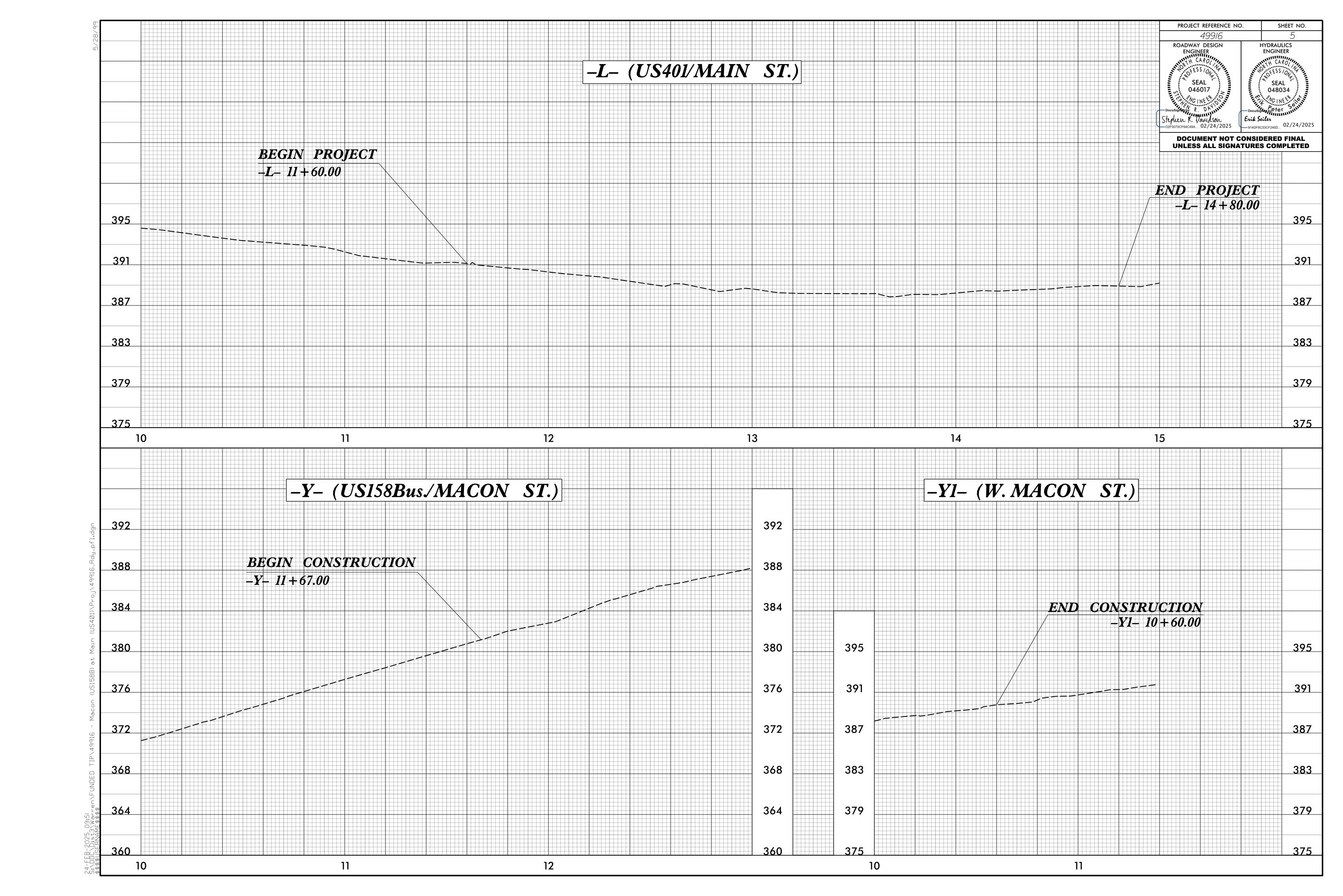
NOTE: Invert Elevations are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300–5".

# **STATEWIDE**

# LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

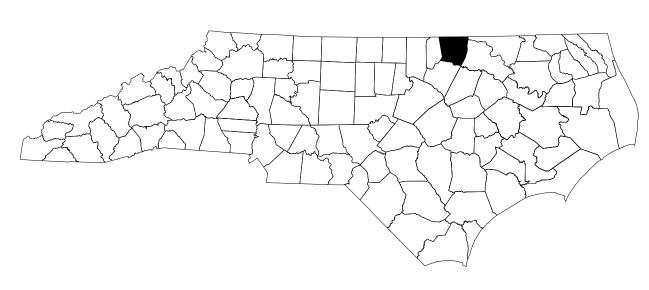
STATION	ON (LT,RT, OR CL)	STRUCTURE NO.	VATION	ELEVATION	CRITICAL	SID (RCP, CSP,	E DRAIN PIPE CAAP, HDPE,	E or PVC)		C.S.	PIPE	) (C	c.C. PIPE CLASS III)			R.C. PIPE (CLASS IV	)	CONTRACTOR DESIGN PIPE	DESIGN	STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE)	FOR DRAINAGE STRUCTURES  * TOTAL L.F. FOR PAY A GUANTITY SHALL BE CC	QOANIII SHALL BE   'A' + (1.3 X COL.'   840.02	FRAME, GRAT AND HOOE STANDARD 840	ES D 0.03	CONCRETE TRANSITIONAL SECTION	TD. 840.54		o. & size	C.Y. STD 840.72	UG, C.Y. STD. 840.71		ABBREVIATIONS  C.B. CATCH BASIN  N.D.I. NARROW DROP INLET  D.I. DROP INLET  G.D.I. GRATED DROP INLET  G.D.I. (N.S.) GRATED DROP INLET  (NARROW SLOT)
SIZE	LOCATIC		TOP ELE	INVERT	SIOPE 12"	5" 18" 24" 30	)" 36" 42" 4	USE CSP	Ş   ∰	" 15" 18" 2	4" 36" 42" 4	15" 18" 24"	30" 30	6" 42" 48"	12" 15"	18" 24" 30"	36" 42" 48"	(CLASS V) CULVERTS, (	CULVERTS, O IN PIPE IN PIPE	CO. YDS.	0, A V 0.0	30VE 8			<u>z</u>	840.34 & COVER S	ILL C.Y.	ELBOWS NO	ARS CL. "B"	ICK PIPE PL	AL LIN.FT.	J.B. JUNCTION BOX M.H. MANHOLE T.B.D.I. TRAFFIC BEARING DROP IN T.B.J.B. TRAFFIC BEARING JUNCTIC
THICKNESS OR GAUGE	_ _	FROM TO						D NOT U	NOT NOT A	.064	.064	601.						**" R. C. PIPE **" R. C. PIPE	**" R. C. PIPE 15" SIDE DRA 18" SIDE DRA	R.C.P.	5.0' THRU 10	10.0' AND AI	TYPE OF GRA		CAICH BASI	T.B.J.B. STD.	FLOWABLE	CORR. STEEL	CONC. COLL	CONC. & B	PIPE REMOV.	REMARKS
-Y- 12 + 69.66	RT 0	9401	387.20 <sup>'</sup> 382.8	o'																	1					1 1	5.3			0.13		REMOVE EXIST. CB. PLUG EX. 15" RCP
-Y- 12 + 49.73	RT O	402	385.60 <sup>'</sup> 382.4	o'																	1	1	1									
	RT 0	0401 0402														28'																
_Y_ 11 + 89.92	RT O	403	382.00 <sup>/</sup> 378.8	o'																	1	1	1									
	RT 0	402 0403														60'																
-Y- 11 + 70.00	RT O	404	380.9′																		1	1	1									FIELD ADJUST BOX TO EX. PIPE INVE
	RT O	403 0404														20'														$\perp$		REMOVE 19' EX. 15" RCP
																															<u> </u>	
SAY												+													-+					<del></del>		





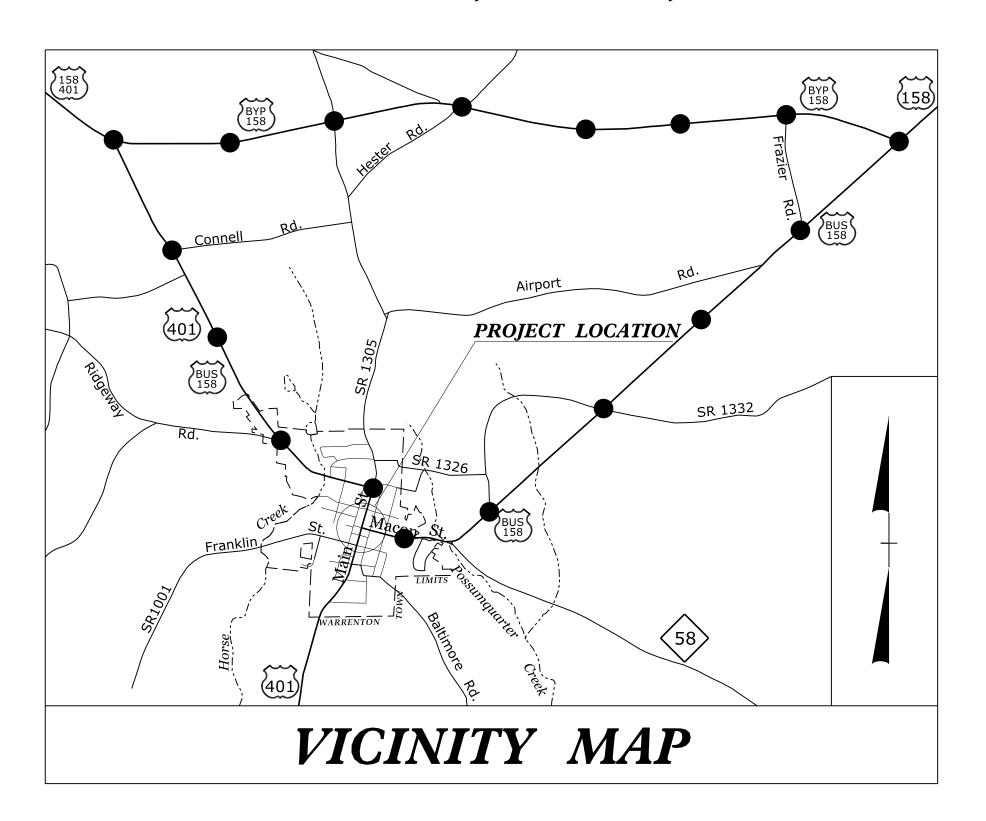
# TRANSPORTATION MANAGEMENT PLAN

# WARREN COUNTY



LOCATION: INSTALL INTERSECTION IMPROVEMENTS AT THE INTERSECTION OF MACON ST. & MAIN ST. IN WARRENTON

TYPE OF WORK: GRADING, DRAINAGE, PAVING & SIGNALS



# WORK ZONE SAFETY & MOBILITY "from the MOUNTAINS to the COAST"

PLANS PREPARED BY:

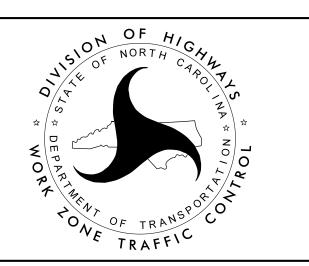
THOMAS R MEADOWS

NCDOT CONTACTS:

KENNETH C. THORNWELL, PE

PROJECT ENGINEER

PROJECT DESIGN ENGINEER



# INDEX OF SHEETS

TITLE

TMP-1 TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS

TMP-1A LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND

TMP-1B TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES, AND LOCAL NOTES)

TMP-2 TRUCK OFF-SITE DETOUR

TMP-3 TEMPORARY TRAFFIC CONTROL PHASING

TMP-4 PEDESTRIAN ACCOMMODATIONS

49916

PROJECT:

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

APPROVED:\_\_\_\_
DATE:\_\_\_\_

SEAL

O46017

Stephen R. Davidson

D2F0075CF64C49A...

O2/36/3035

# 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
1101.03	TEMPORARY ROAD 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
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES

# **LEGEND**

### GENERAL

DIRECTION OF TRAFFIC FLOW

DIRECTION OF PEDESTRIAN TRAFFIC FLOW

----- EXIST. PVMT.

NORTH ARROW

—— PROPOSED PVMT.

TEMP. SHORING (LOCATION PURPOSES ONLY)

WORK AREA



REMOVAL

# PAVEMENT MARKINGS

——EXISTING LINES ——TEMPORARY LINES

# TRAFFIC CONTROL DEVICES

BARRICADE (TYPE III) 

DRUM SKINNY DRUM O 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

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



ROADWAY STANDARD DRAWINGS & LEGEND

DJ. REFERENCE NO.	SHEET NO.
49916	TMP-1B

# 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 UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE

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

ROAD NAME

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

DAY AND TIME RESTRICTIONS

US 401 (MAIN ST) BUS 158 (MACON ST) MONDAY THROUGH FRIDAY 6:00 AM TO 9:00 AM

4:00 PM TO 7:00 PM

SATURDAY THROUGH SUNDAY 12:00 PM TO 6:00 PM

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

### ROAD NAME

US 401 (MAIN ST) BUS 158 (MACON ST)

### **HOLIDAY**

- 1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- 2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 7:00 A.M. DECEMBER 31st TO 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.
- 3. FOR EASTER, BETWEEN THE HOURS OF 7:00 A.M. THURSDAY AND 6:00 P.M. MONDAY.
- 4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY TO 6:00 P.M. TUESDAY.
- 5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 7:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 7:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

- 6. FOR LABOR DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY AND 6:00 P.M. TUESDAY.
- 7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 A.M. TUESDAY TO 6:00 P.M. MONDAY.
- 8. FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

### LANE AND SHOULDER CLOSURE REQUIREMENTS

- C) 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.
- 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.
- WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, 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 ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, 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 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.
- 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.

### TRAFFIC PATTERN ALTERATIONS

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

### SIGNING

- I) 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.
- PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

- ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- M) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 500 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

### 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.
- O) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

### PAVEMENT MARKINGS AND MARKERS

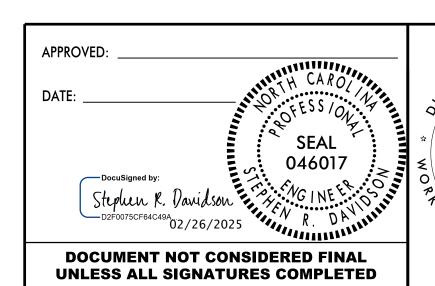
- P) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- Q) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

# **MANAGEMENT STRATEGIES**

THE FOLLOWING LISTED WORK ZONE STRATEGIES ARE RECOMMENDED FOR INCLUSION WITHIN THIS TRANSPORTATION MANAGEMENT PLANS (TMP)

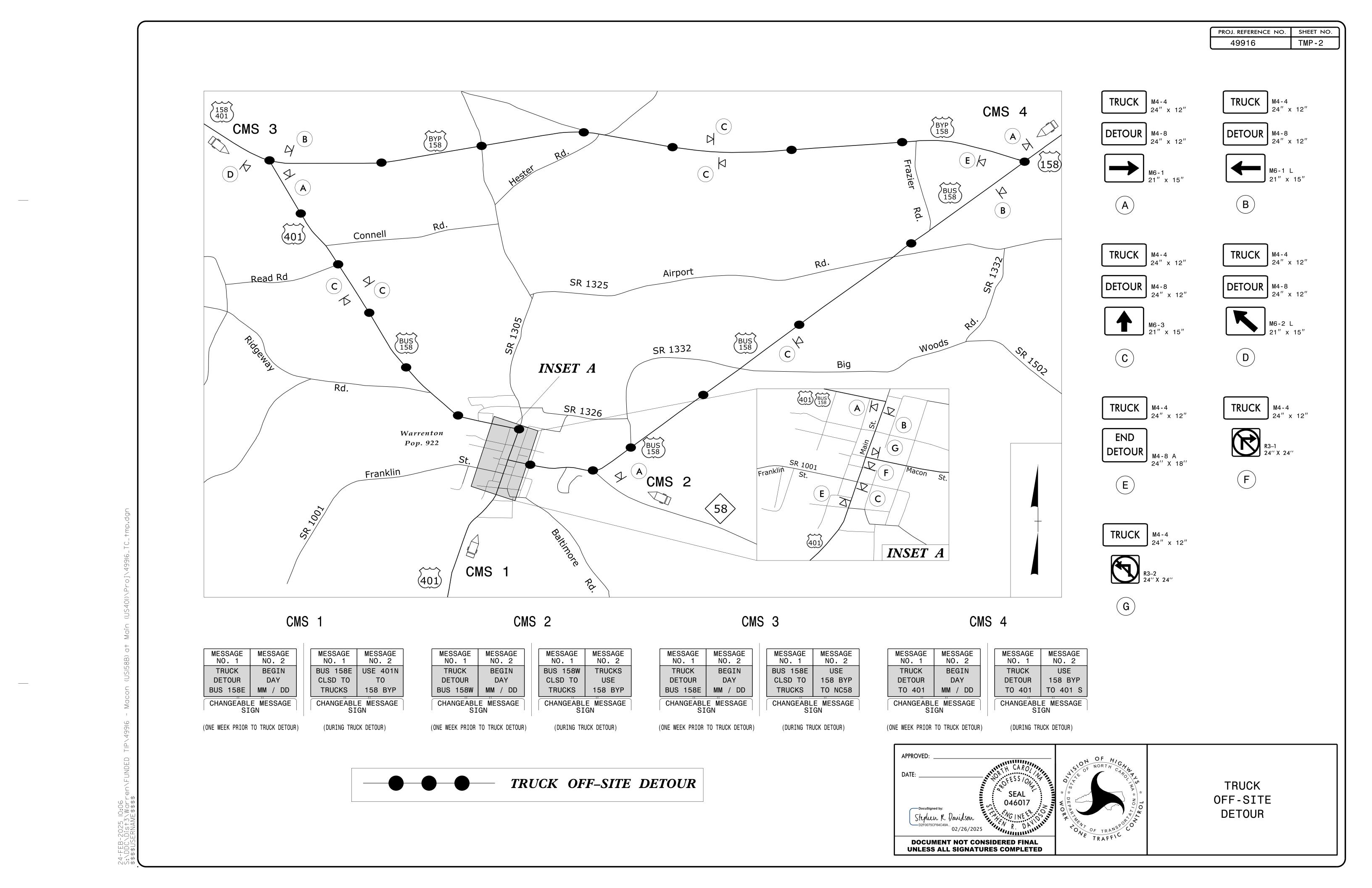
### RECOMMENDED STRATEGIES:

- TRUCK OFF-SITE DETOUR/USE OF ALTERNATIVE ROUTES
- LANE SHIFTS OR CLOSURES
- SHOULDER CLOSURES
- ONE-LANE, TWO WAY OPERATION (FLAGGING)
- WORK HOUR RESTRICTIONS FOR PEAK TRAVEL
- PEDESTRIAN/BICYCLE ACCOMMODATIONS





TRANSPORTATION **OPERATIONS PLANS** 



PROJ. REFERENCE NO. SHEET NO. 49916 TMP - 3

# **PHASING**

BEFORE BEGINNING ANY CONSTRUCTION ACTIVITIES THE CONTRACTOR SHALL INSTALL ALL ADVANCED WARNING SIGNS AND TRAFFIC CONTROL DEVICES. FIELD VERIFY LOCATIONS WITH RESIDENT ENGINEER PRIOR TO INSTALLATION.

THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING DRIVEWAYS DURING CONSTRUCTION UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR AS DIRECTED IN THE PHASING NOTES.

PRIOR TO START OF CONSTRUCTION, TOWN OF WARRNENTON WILL RELOCATE THE PLANTERS ON W. MACON ST. (-Y1-). CONTACT TOWN ADMINISTRATOR, ROBERT DAVIE FOR FURTHER GUIDANCE.

PRIOR TO START OF CONSTRUCTION, INSTALL TREE PROTECTION FENCE TO PROTECT THE TERRAZZO TILES LOCATED ON PARCEL 1. CONTACT ROBERT DAVIE (TOWN ADMINISTRATOR) AT (252) 257-1122, OR CYNTHIA JENKIN (PRESIDENT OF PRESERVATION WARRENTON) AT (919) 260-8008, FOR FURTHER GUIDANCE PER GREEN SHEET COMMITMENTS.

STEP 1:

PLACE CMS BOARDS ONE WEEK IN ADVANCE OF TRUCK OFF-SITE DETOUR.

USING RSD 1101.01, INSTALL ADVANCED WARNING SIGNS ON BUSINESS 158 (MACON ST) AND US 401 (MAIN ST) IN BOTH DIRECTIONS.

STEP 2:

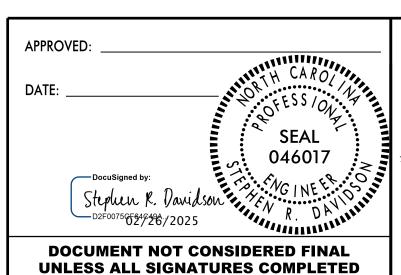
USING TMP-2, INSTALL SIGNAGE AND TRAFFIC CONTROL DEVICES FOR TRUCK OFF-SITE DETOUR.

STEP 3:

WITH TRUCK OFF-SITE DETOUR IN PLACE, BEGIN FLAGGING TO CONSTRUCT INTERSECTION IMPROVEMENTS. USE LAW ENFORCEMENT AS NECESSARY TO MAINTAIN TRAFFIC.

STEP 4:

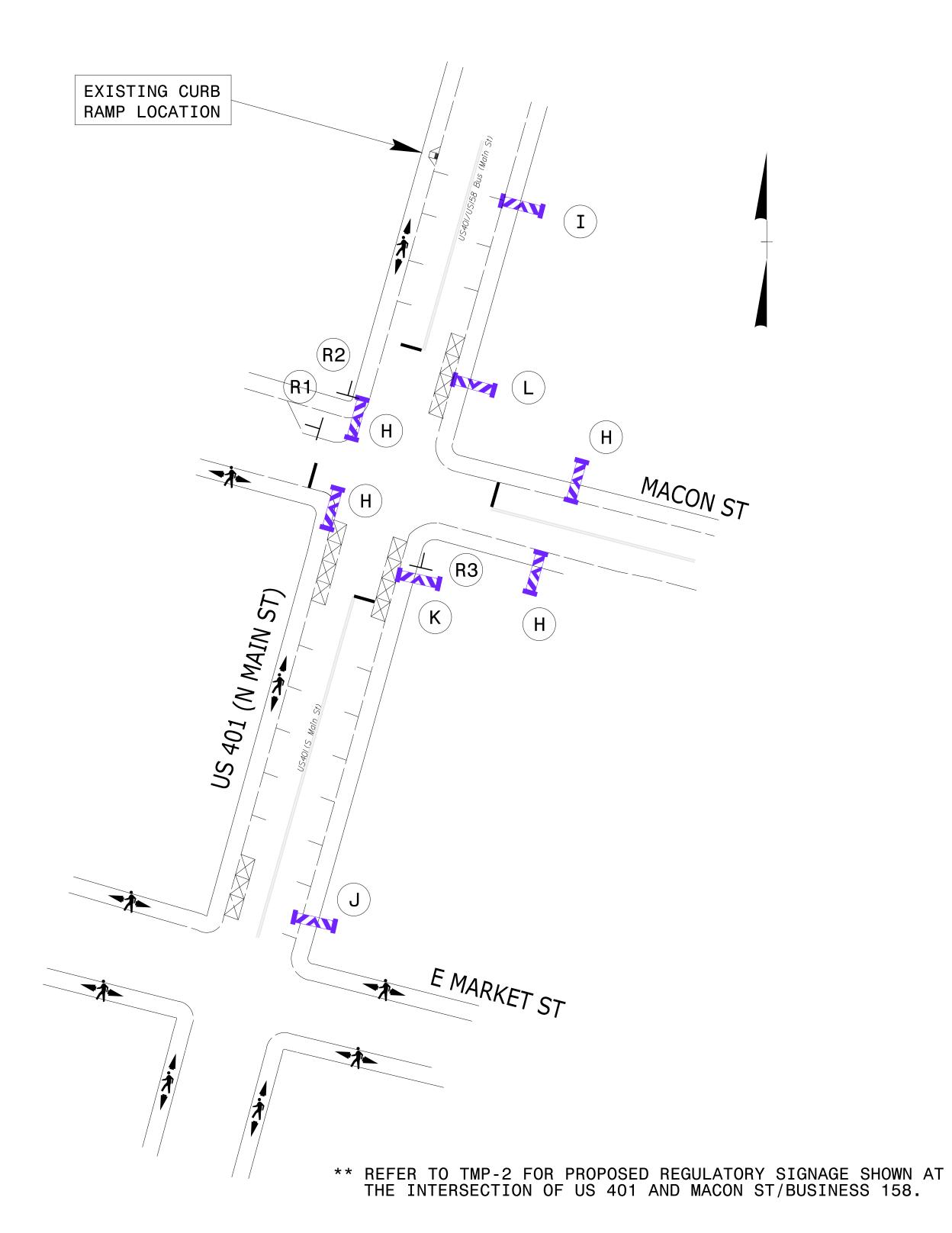
INSTALL FINAL PAVEMENT MARKINGS, REMOVE ALL TRAFFIC CONTROL DEVICES AND OPEN TRAFFIC TO FINAL PATTERN.



OF HIGH NORTH CAROL NORTH CARO

PHASING

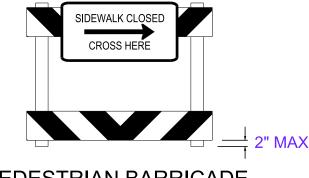
INSTSYWARRENYFUNDED IIRY4YYIG – MACON (USISXB)AT MAIN (US4UI)YROJY4YYIG\_IC\_TMP.AGN FRNAMF\$\$\$\$



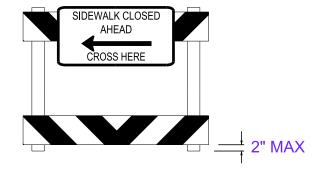




(H)



PEDESTRIAN BARRICADE \*MUST BE ADA-COMPLIANT\*



PEDESTRIAN BARRICADE \*MUST BE ADA-COMPLIANT\*



K



# EXISTING REGULATORY SIGNAGE







R1

R5–1 30′′ X 30′′



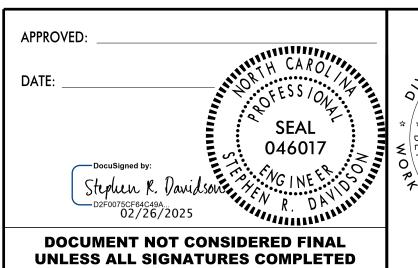
**R2** 



# NOTES:

MAINTAIN LOCAL ACCESS TO BUSINESSES AND RESIDENTS THROUGHOUT THE DURATION OF THE SIDEWALK CLOSURE.

RELOCATE ALL EXISTING REGULATORY SIGNAGE IMPACTED BY CONSTRUCTION.





SIDEWALK CLOSURE DETAIL

COMBO. LEFT/ RIGHT/ STRAIGHT ARROW (90 mils)

TOTAL: 1 EA

PROJECT REFERENCE NO. SHEET NO. PMP-I49916

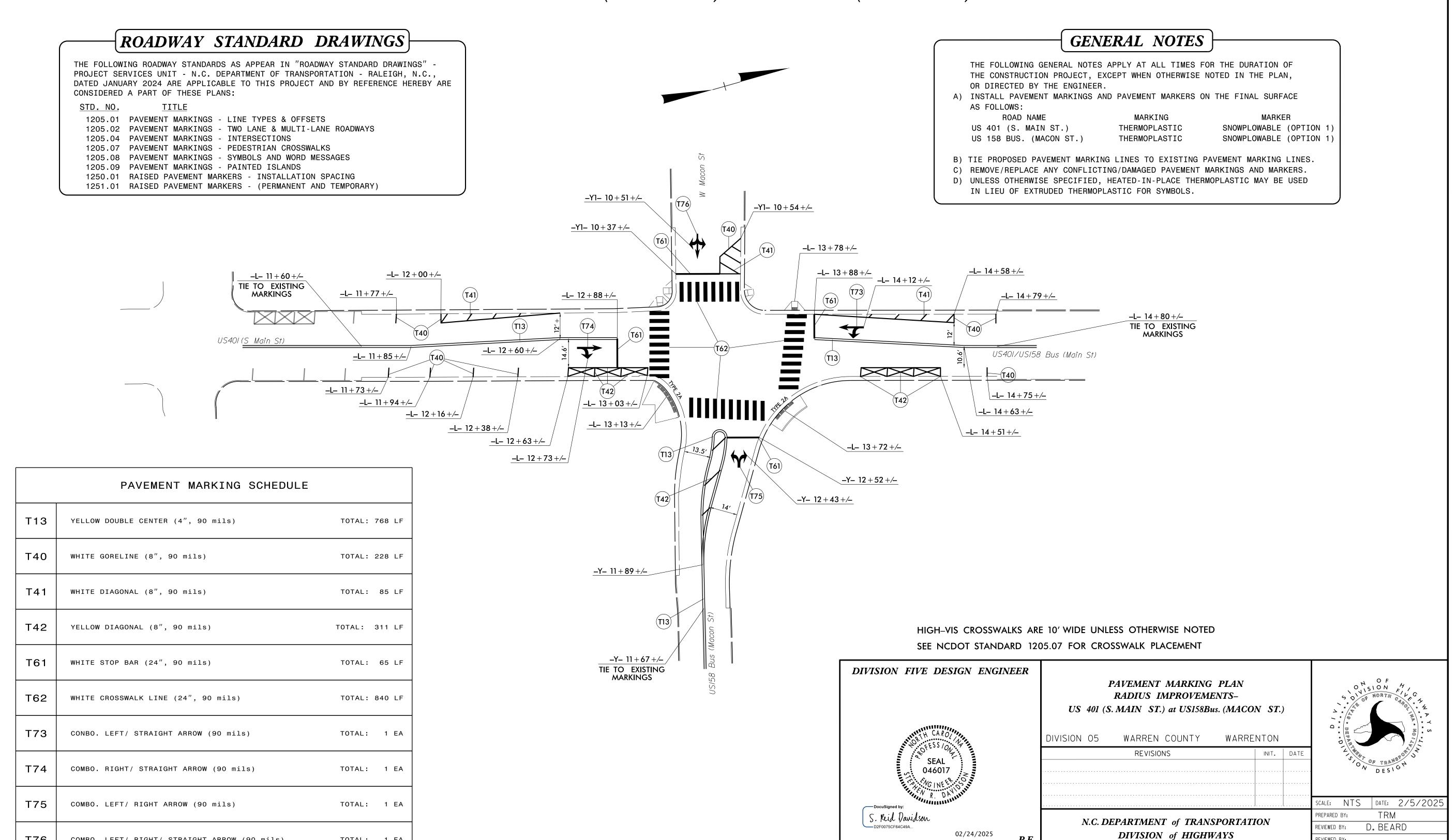
REVIEWED BY:

DIVISION FIVE DESIGN UNIT

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

# PAVEMENT MARKING PLAN

LOCATION: US401 (S. MAIN ST.) AT US158 BUS. (MACON ST.)



**SIGNATURE** 

IP PROJECT: 49916

.+3\Warren\funded Tip\49916 - Macon (US158B AME\$\$\$

GRAPHIC SCALES

PROFILE (HORIZONTAL)

PROFILE (VERTICAL)

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

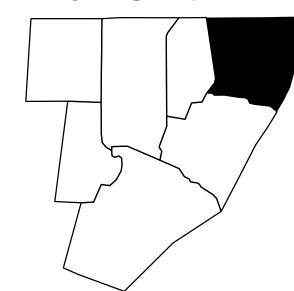
# WARREN COUNTY

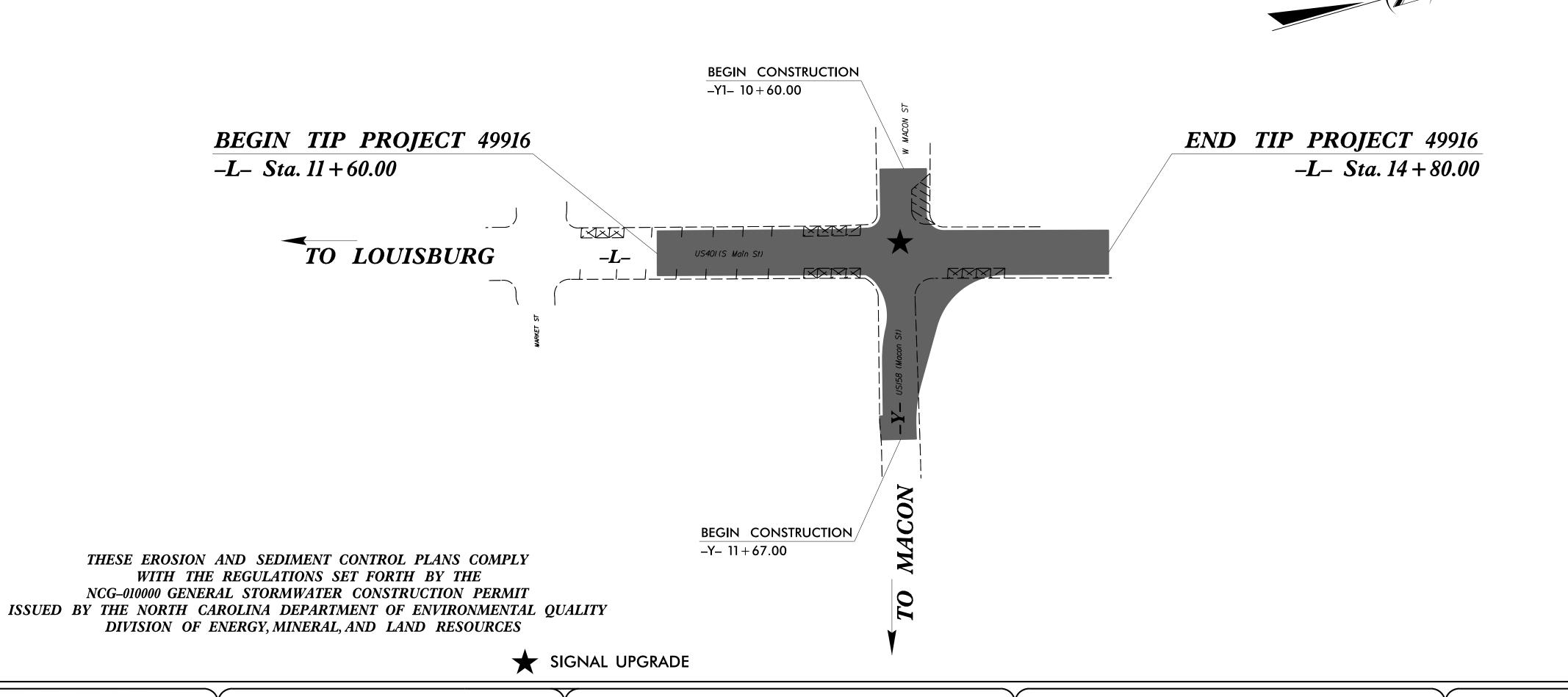
LOCATION: US401 (MAIN ST.) AT US158 BUS. (MACON ST.)

TYPE OF WORK: GRADING, DRAINAGE, PAVING & SIGNALS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS				
N.C.	.C. 49916						
STATE PROJ. NO	). F. A. PROJ. NO.	DESCRIPT	ION				
49916		PE					
49916		R∕W, U	TIL.				
49916		CONS	ST.				
I							

# **DIVISION** 5





EROSION CONTROL DESIGN BY:

David Davis

LEVEL IIIA NAME

*3553* 

LEVEL IIIA CERTIFICATION NO.

BECCA GALLAS, P.E.
DIVISION ENGINEER

**DIVISION OF HIGHWAYS** 

STATE OF NORTH CAROLINA
FIFTH DIVISION

# DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

PROJECT REFERENCE	E NO.	SHEET NO.
49916		EC-02
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER

# EROSION & SEDIMENT CONTROL LEGEND

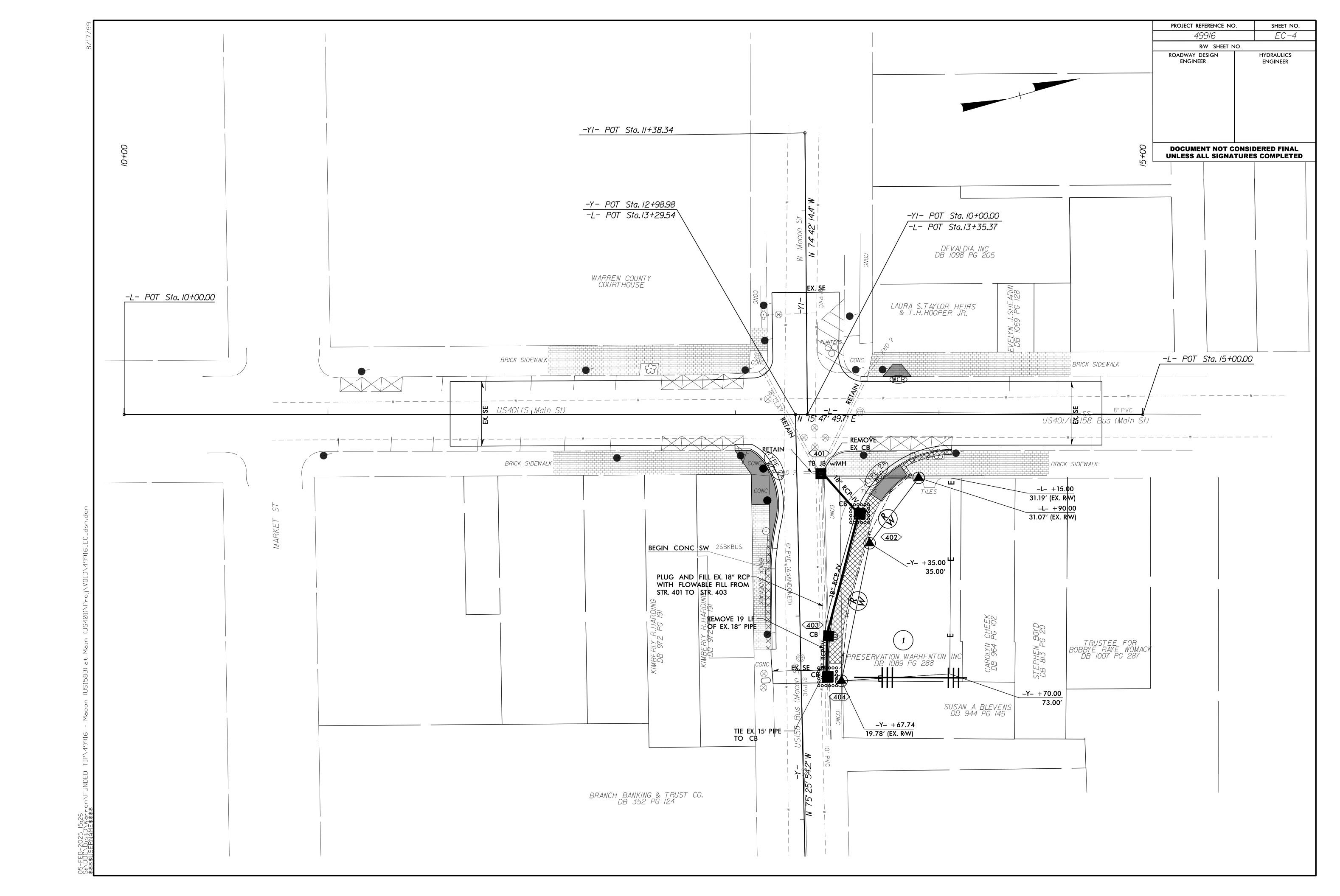
Std. #	<u>Description</u>	<u>Symbol</u>	Std. #	Description	<u>Symbol</u>
1605.01	Temporary Silt Fence		1633.01	Temporary Rock Silt Check Type A	
1606.01	Special Sediment Control Fence		1633.02	Temporary Rock Silt Check Type B	
1622.01	Temporary Berms and Slope Drains		1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1630.02	Silt Basin Type B		1634.01	Temporary Rock Sediment Dam Type A	0.00% 0.00% 0.00% 0.00%
1630.03	Temporary Silt Ditch	TSD	1634.02	Temporary Rock Sediment Dam Type B	
1630.04	Stilling Basin		1635.01	Rock Pipe Inlet Sediment Trap Type A	
1630.05	Temporary Diversion	···— → TD — →	1635.02	Rock Pipe Inlet Sediment Trap Type B	B
1630.06	Special Stilling Basin		1636.01	Excelsior Wattle Check	
1630.07	Skimmer Basin		1636.01	Excelsior Wattle Check with Flocculant	
1630.08	Tiered Skimmer Basin		1636.01	Coir Fiber Wattle Check	
1630.09	Earthen Dam with Skimmer		1636.01	Coir Fiber Wattle Check with Flocculant	
	Infiltration Basin		1636.02	Silt Fence Excelsior Wattle Break	
1622 01	Rock Inlet Sediment Trap:	^ §		Silt Fence Coir Fiber Wattle Break	
1632.01	Type A	A	1636.03	Excelsior Wattle Barrier	—EW—EW—EW—
1632.02	Type B		1636.03	Coir Fiber Wattle Barrier	CFWCFW
1632.03	Type C		1000.00		OIVV OIVV — OIVV——

# DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

PROJECT REFERENCE NO	). SHEET NO.
49916	<u>EC−3</u> B
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10'OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50'IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.



# 4 E

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

# SIGNING PLAN WARREN COUNTY

LOCATION: US 401 (MAIN ST.) AT US 158 BUS. (MACON ST.)

# 49916 SIGN-I

# ROADWAY STANDARD DRAWINGS

TITLE STD. NO.

ORIENTATION OF GROUND MOUNTED SIGNS 904.10

904.50 MOUNTING OF TYPE 'D', 'E', AND 'F' SIGNDS ON 'U' CHANNEL POSTS

# PAY ITEM NOTES

- DISPOSAL OF SUPPORT, U-CHANNEL
- DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- DO NOT DISTURB SIGN SYSTEM

# GENERAL NOTES

- SIGNS FURNISHED BY CONTRACTOR
- ALL TYPE 'D' AND 'F' SIGNS SHALL BE MOUNTED ON TWO U-CHANNEL POSTS UNLESS OTHERWISE INDICATED ON THE PLANS
- WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- ALL EXISTING SIGNS ON "U" CHANNEL POSTS WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS
- WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL
- THE BACKGROUND FOR TYPE E AND F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING

		SUMMARY OF QUANTITIES		
ITEM N	10.	ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	90	LF
4102000000	904	SIGN ERECTION, TYPE E & F	6	EA
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	6	EA
4192000000	907	DISPOSAL OF SUPPORT, U-CHANNEL	6	EA
4238000000	907	DISPOSAL OF SIGN, D, E or F	15	EA

# INDEX OF SHEETS

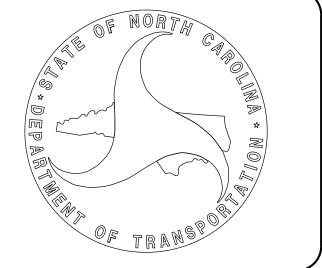
SHEET NO. DESCRIPTION

SIGN-1

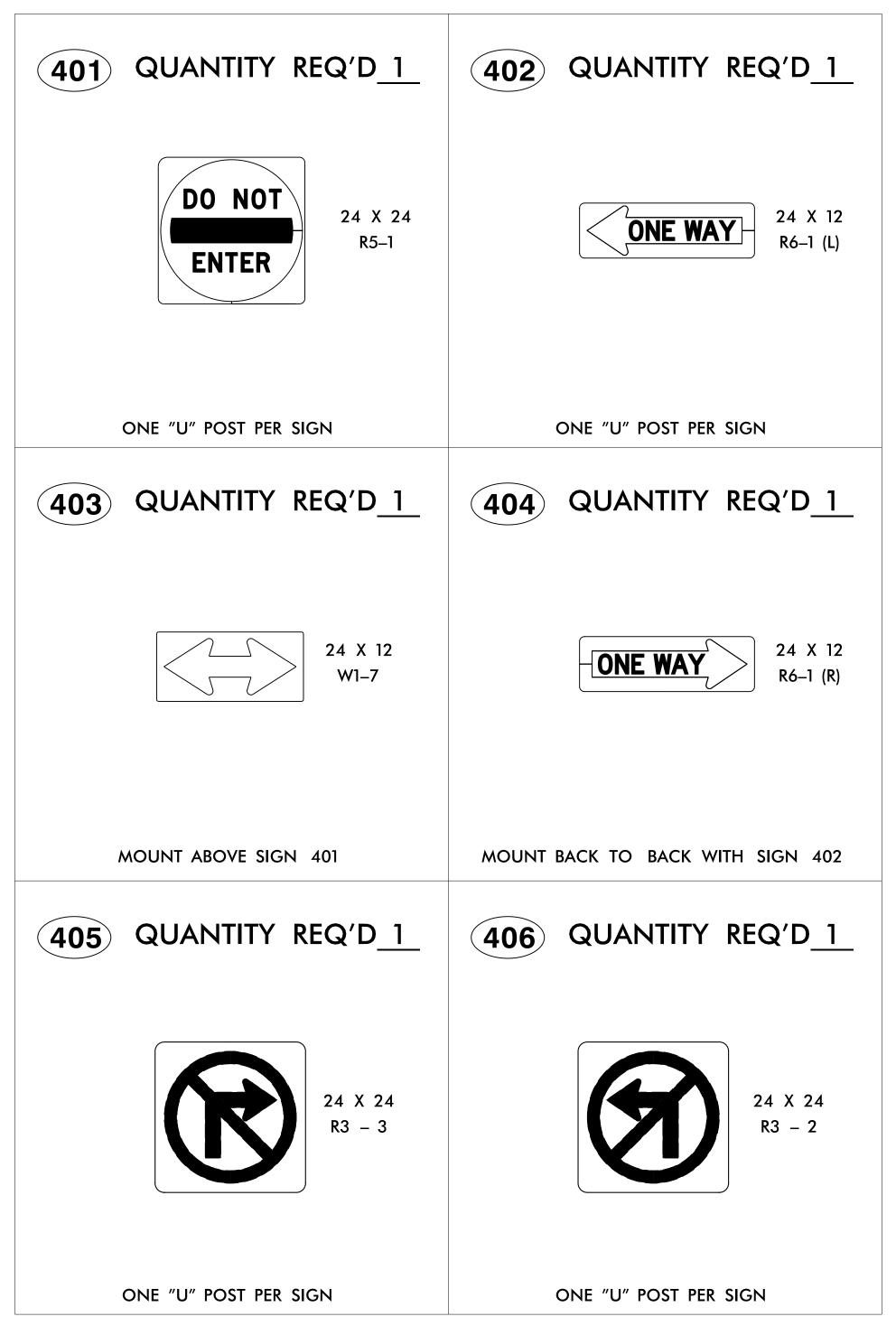
TITLE SHEET TYPE 'E' AND 'F' SIGN DESIGNS SIGN-2 SIGN-3 EXISTING SIGNING SHEET SIGN-4 PROPOSED SIGNING SHEETS

STEPHEN R. DAVIDSON, PE PROJECT ENGINEER

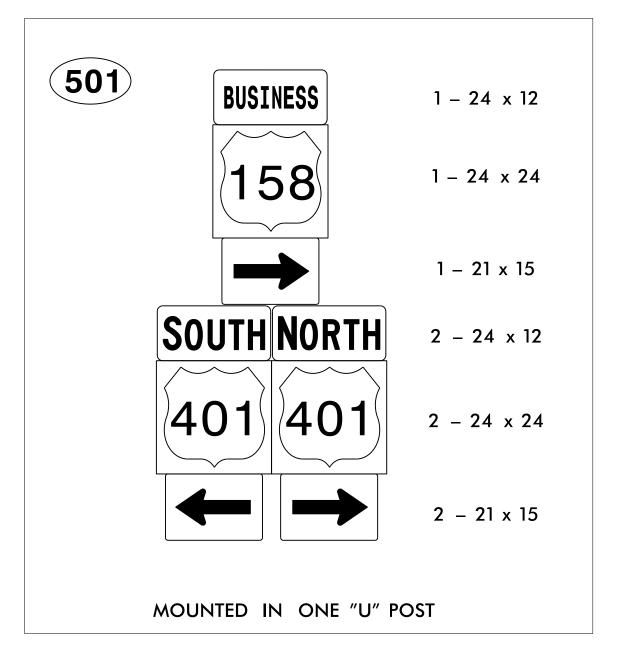
THOMAS R MEADOWS PROJECT DESIGN ENGINEER

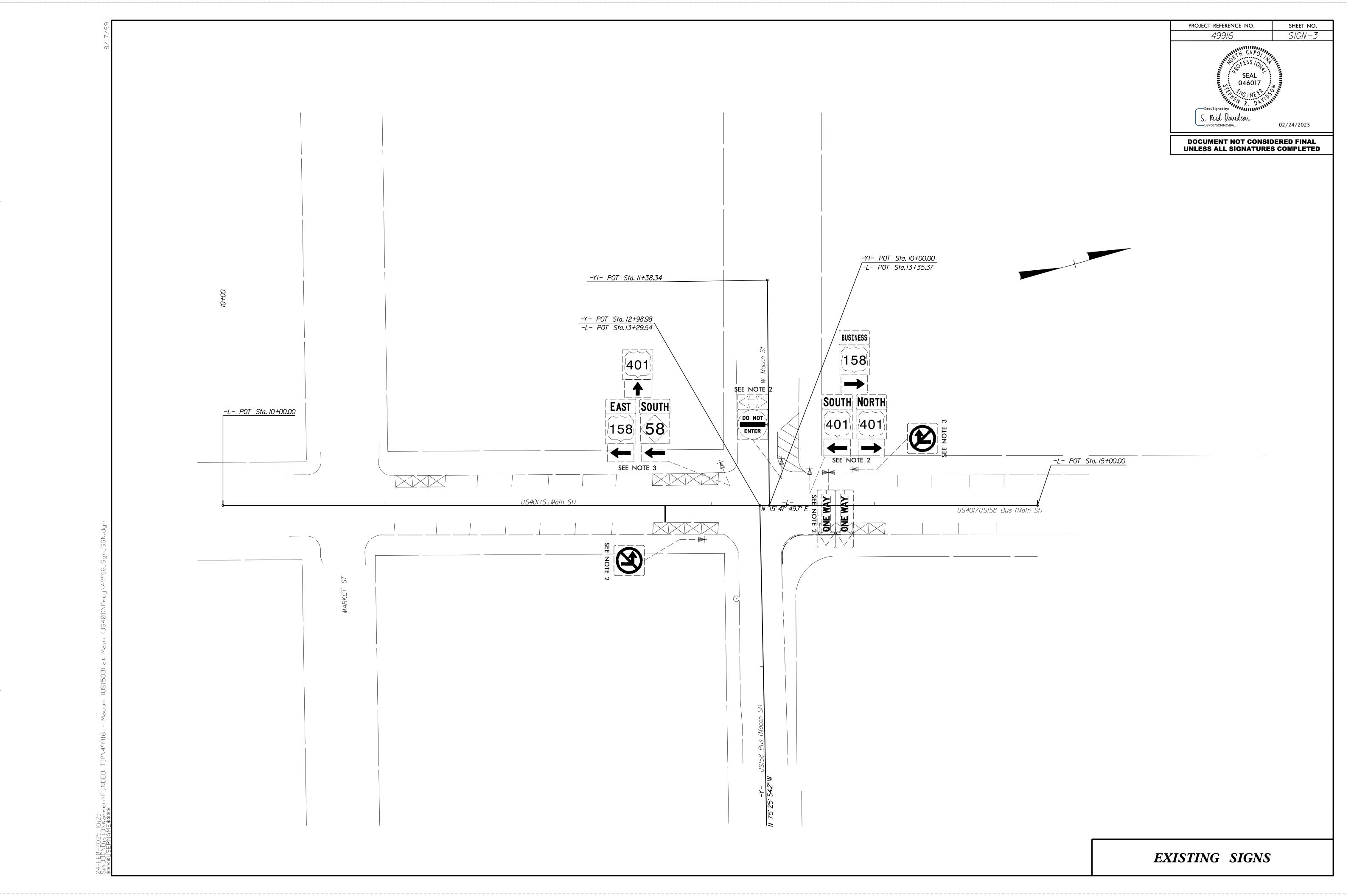


# TYPE "E" SIGNS



# TYPE "F" SIGNS





PROJECT REFERENCE NO.

49916

SIGN-4

SEAL

046017

SEAL

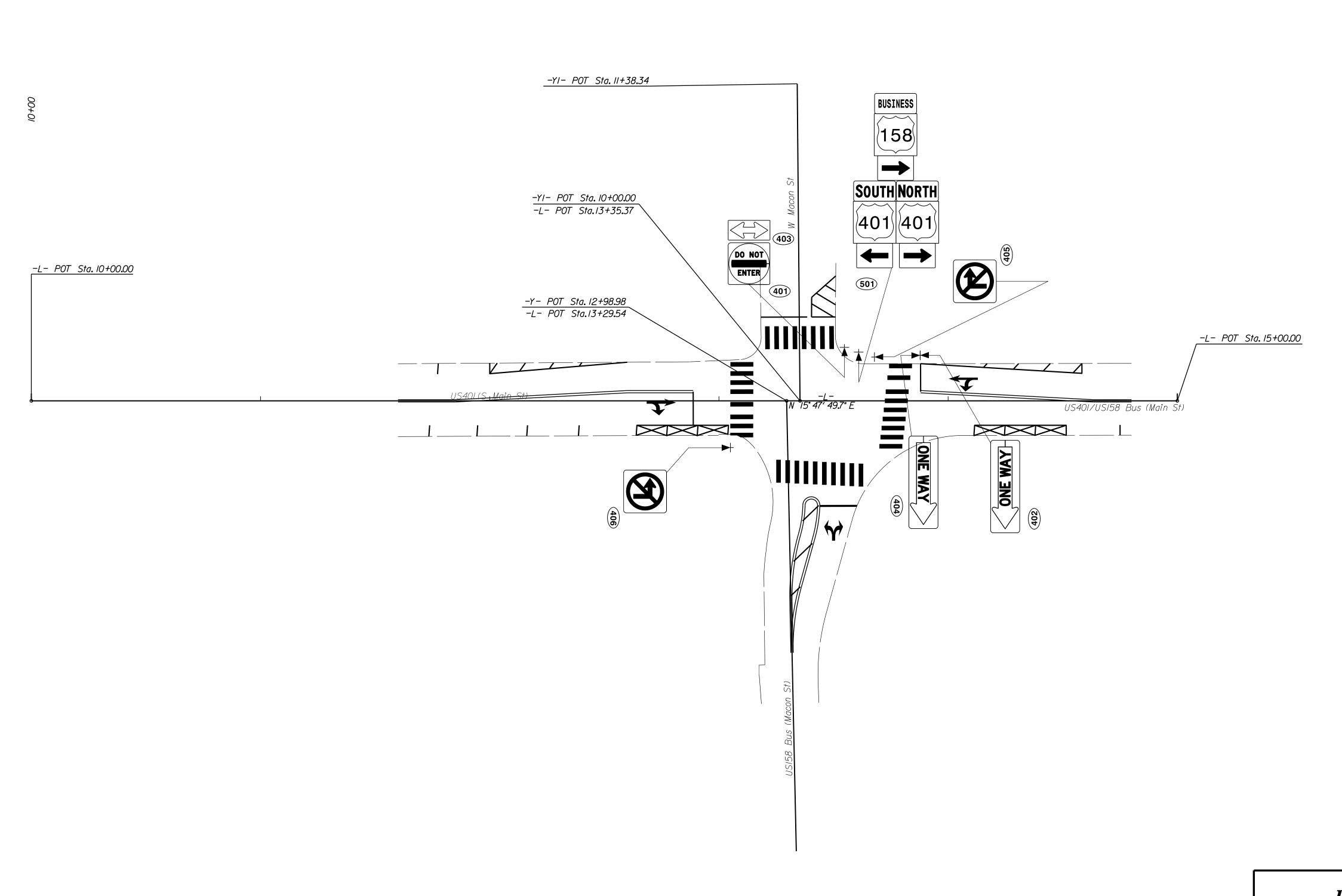
046017

SEAL

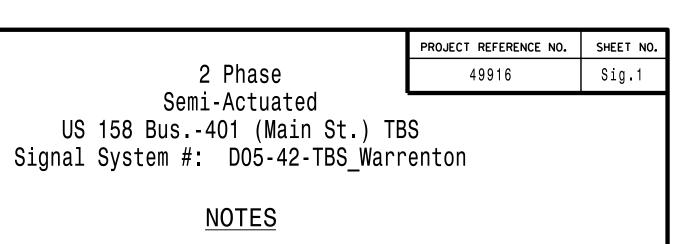
046017

O2/24/2025

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

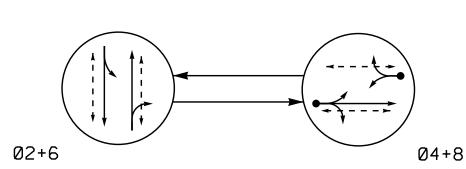


PROPOSED SIGNS



SIG. INVENTORY NO. 05-0612





### PHASING DIAGRAM DETECTION LEGEND

UNSIGNALIZED MOVEMENT

DETECTED MOVEMENT UNDETECTED MOVEMENT (OVERLAP)

<--> PEDESTRIAN MOVEMENT

TABLE OF O	PFF	<u></u>	.UN			MAXTI	ME DET	ECTOR	Ι	NSTA	LLAT]	ION C	НА	RT	
TABLE OF O	_					DET	ECTOR				PRO	GRAMM	IIN	3	
SIGNAL FACE	Ø 2 + 6	Ø 4 + 8	FLGOI		L00P	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL DURING GREEN
2l 22	† G	R R	R											ADI	DELAY
	-				4A	6×40	0	2-4-2	-	4	5.0	-	Х	-	X -
41, 42	R	G		_	8.8	6×40	0	2-4-2	Х	8	-	-	Х	-	x -
61	G		R	St.		1			<u> </u>			I			

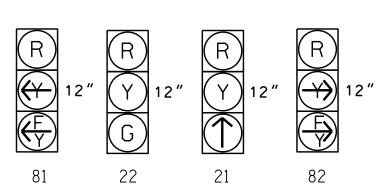
Metal Pole #1

▲P22

Std. Case S30L1

# SIGNAL FACE I.D.

All Heads L.E.D.



P41, P42 P61, P62

P21, P22 P81, P82

25 MPH -1% Grade

W. Macon St.

62

81

82

P2I**,**P22

P4I, P42

P6I, P62

P8I, P82

MAX	TIME T	IMING	CHART						
FEATURE	PHASE								
FEATURE	2	4	6	8					
Walk *	10	10	10	10					
Ped Clear	8	8	12	11					
Min Green *	10	7	10	7					
Passage *	-	2.0	_	2.0					
Max 1 *	45	20	45	20					
Yellow Change	3.0	3.2	3.0	3.2					
Red Clear	2.9	2.6	2.9	2.4					
Added Initial *	-	_	_	_					
Maximum Initial *	_	_	_	=					
Time Before Reduction *	-	_	_	-					
Time To Reduce *	-	_	_	_					
Minimum Gap	-	_	_	_					
Advance Walk	3	3	3	3					
Non Lock Detector	_	Х	_	Х					
Vehicle Recall	MAX/PED RECALL	_	MAX/PED RECALL	_					
Dual Entry	-	Х	_	Х					
Simultaneous Start	_	х	_	Х					

\* These values may be field adjusted. Do not adjust Min Green times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than

19'
29'  16'10'  10'  10'  10'  10'  10'  10'
Proposed Stop Line and Metal Pole Locations

US 158 Bus./NC 58 (E. Macon St.)

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.

NOTES

2 Phase

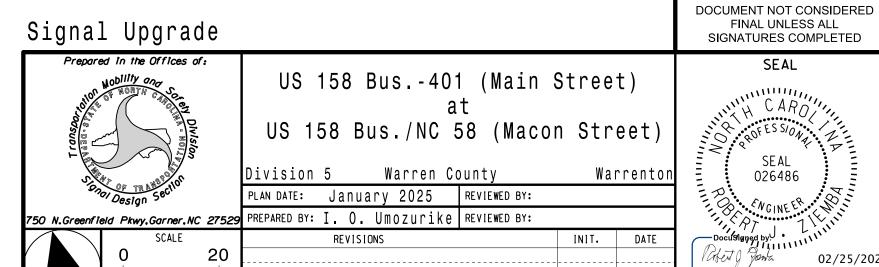
Semi-Actuated

- 2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- 3. Set all detector units to presence mode.
- 4. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- 5. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls for phase 4 and 8.
- 6. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- 7. Pavement markings are existing unless otherwise.
- 8. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

# **LEGEND**

<u>ED</u>	<b>EXISTING</b>
Traffic Signal Head	<b></b>
Modified Signal Head	N/A
Sign	$\dashv$
Pedestrian Signal Head With Push Button & Sign	<b>+</b>
-) Signal Pole with Guy	•
, Signal Pole with Sidewalk Guy	
☐ Inductive Loop Detector	$\subseteq = = = = = = = = = = = = = = = = = = =$
Controller & Cabinet	~
Junction Box	
— - 2-in Underground Conduit	
Right of Way	
Directional Arrow	$\longrightarrow$
Curb Ramp	
Metal Strain Pole	
Type II Signal Pedestal	
"NO TURN ON RED" Sign (R10-11	
No Straight Through Sign (R3-2	7) B
No Right Turn Sign (R3-1)	©
No Left Turn Sign (R3-2)	7) B C D
"DO NOT ENTER" Sign (R5-1)	Ē
"STOP HERE ON RED" Sign (R10-6	
	Traffic Signal Head  Modified Signal Head  Sign  Pedestrian Signal Head With Push Button & Sign  Signal Pole with Guy  Signal Pole with Sidewalk Guy  Inductive Loop Detector  Controller & Cabinet  Junction Box  2-in Underground Conduit  Right of Way  Directional Arrow  Curb Ramp  Metal Strain Pole  Type II Signal Pedestal  "NO TURN ON RED" Sign (R10-11  No Straight Through Sign (R3-2)  No Right Turn Sign (R3-1)  No Left Turn Sign (R3-2)  "DO NOT ENTER" Sign (R5-1)

This plan supersedes the plan signed and sealed on 06/21/2022.



REMOVE DIODE JUMPERS 2-6, 2-13, 2-15, 4-9, 4-10, 4-14, 4-16, 6-13, 6-15, 9-10,

9-14, 9-16, 10-14, 10-16, 13-15 and 14-16. FYA 7-12 COMPONENT SIDE

### REMOVE JUMPERS AS SHOWN

- 1. Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
- 2. Ensure jumpers SEL2-SEL5 and SEL9 are present on the monitor board.
- 3. Ensure that the Red Enable is active at all times during normal operation.
- 4. Integrate monitor with Ethernet network in cabinet.

# NOTES

- 1. To prevent "flash-conflict" problems, insert red flash program blocks for all heads flash in accordance with the signal plan.
- 4. Program controller to start up in phase 2 Green No Walk and 6 Green No
- Signal System #: D05-42-TBS\_Warrenton.

### **EQUIPMENT INFORMATION**

Controller	2070LX
Cabinet	332 w/ Aux
Software	Q-Free MAXTIME
Cabinet Mount	Base
Output File Positions	18 With Aux. Output File
Load Switches Used	S2, S3, S5, S6, S8, S9, S12,
	AUX S1, AUX S2
Phases Used	2, 2PED, 4, 4PED, 6, 6PED,
	8**, 8PED
Overlap "1"	*
Overlap "2"	
Overlap "3"	Not Used
Overlap "4"	Not Used

\*\*Phase used for timing purposes

LOAD SWITCH NO.

CMU CHANNEL NO.

PHASE

SIGNAL HEAD NO.

RED

YELLOW

GREEN

RED ARROW

YELLOW ARROW

FLASHING

YELLOW ARROW GREEN ARROW

NU = Not Used

NC = No Connection

S2

128 | 128 |

129 | 129 |

★See pictorial of head wiring in detail this sheet.

- vehicle load switches in the output file. The installer shall verify that signal
- 2. Program phases 4 and 8 for Dual Entry.
- 3. Program phases 4 and 8 for Simultaneous Start.
- 5. If this signal will be managed by an ATMS software, enable controller and detector logging for all detectors used at this location.
- 6. The cabinet and controller are part of the US 158 Bus.-401 (Main St.) TBS

Controller	2070LX
Cabinet	332 w/ Aux
Software	
Cabinet Mount	Base
Output File Positions	.18 With Aux. Output File
_oad Switches Used	S2, S3, S5, S6, S8, S9, S12,
	AUX S1, AUX S2
Phases Used	2, 2PED, 4, 4PED, 6, 6PED,
	8**, 8PED
Overlap "1"	*
Overlap "2"	*
Overlap "3"	Not Used

\*See overlap programming detail on sheet 2

# INPUT FILE POSITION LAYOUT

(front view)

,	1	2	3	4	5	6	7	8	9	10	11	12	13	14
FILE U	S L O T	SLOT	SLOT	S L O T	S L O T	ø 4 4A	S L O T	S L O T	SLOT	SLOT	S L O T	NOT USED	NOT USED	FS DC ISOLATOR
" <b> </b> "	E M P T Y	E M P T Y	E M P T Y	E M P T Y	E M P T Y	NOT USED	E M P T Y	E M P T Y	E M P T Y	E M P T Y	E M P T Y	DC	Ø 8 PED DC ISOLATOR	ST DC
FILE U	S L O T	SLOT	SLOT	S L O T	S L O T	ø 8 8A	S L O T	S L O T	SLOT	SLOT	S L O T	S L O T	S L O T	S L OT
"J" _	E M P T Y	E M P T Y	E M P T Y	E M P T Y	E M P T Y	NOT USED	E M P T Y	E M P T Y						

EX.: 1A, 2A, ETC. = LOOP NO.'S

FS = FLASH SENSE ST = STOP TIME

WD ENABLE  $\Omega$ 

RP DISABLE

- SF#1 POLARITY

─ FYA COMPACT—

GY ENABLE

FYA 3-10

= DENOTES POSITION OF SWITCH

FYA 5-11

# INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT POINT	DETECTOR NO.	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN
4A	TB4-9,10	I6U	41	3	8	4	5		Х		Х	
8A	TB5-9,10	J6U	42	4	22	8			Х		Х	
PED PUSH BUTTONS												
P41,P42	TB8-5,6	I12L	69	35	4	PED 4	NOTE:					
P81,P82	TB8-8,9	I13L	70	36	8	PED 8		. DC ISOLAT T FILE SLOT				
							I12 AND		J			

INPUT FILE POSITION LEGEND: J2L SLOT 2 — LOWER -

# FYA SIGNAL WIRING DETAIL

SIGNAL HEAD HOOK-UP CHART

134 | 134

135 | 135

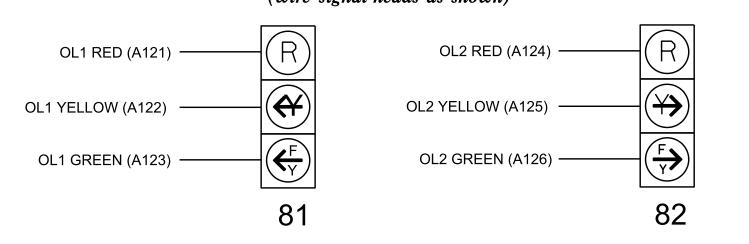
136

S3 | S4 | S5 | S6 | S7

102

P21, P22 NU 41,42 P41, P42 NU 61 62

(wire signal heads as shown)



This Plan Supersedes Electrical Detail Sealed on 6/23/2022

> THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 05-0612 DESIGNED: January 2025 SEALED: 2/25/2025 REVISED: N/A

Electrical Detail - Sheet 1 of 2

# US 158 Bus.-401 (Main Street) Prepared in the Offices of: US 158 Bus./NC 58 (Macon Street) Warren Cointy

PLAN DATE: February 2025 REVIEWED BY: PREPARED BY: Zarrar Zafar REVIEWED BY: REVISIONS

FINAL UNLESS ALL SIGNATURES COMPLETED D. told Joyce 02/26/2025

SIG. INVENTORY NO. 05-0612

DOCUMENT NOT CONSIDERED

ROJECT REFERENCE NO.

8 PED OL1 OL2 SPARE OL3 OL4 SPAR

 S9
 S10
 S11
 S12
 AUX S1
 AUX S2
 AUX AUX S3
 AUX S4
 AUX S5
 S6

 $\begin{bmatrix} P61, \\ P62 \end{bmatrix}$  NU NC  $\begin{bmatrix} P81, \\ P82 \end{bmatrix}$  81  $\bigstar$  82 NU NU NU NU

A121 A124

A122 A125

A123 A126

Sig. 2

### COUNTDOWN PEDESTRIAN SIGNAL OPERATION

Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual for instructions on selecting this feature.

# MAXTIME STARTUP AND SOFTWARE FLASH PROGRAMMING DETAIL

Front Panel

Main Menu >Controller >Unit

Web Interface

Home >Controller >Unit

Modify parameters as shown below and save changes.

Start Up Parameters

StartUp Clearance Hold

Unit Flash Parameters
All Red Flash Exit Time

6

# OUTPUT CHANNEL CONFIGURATION

Front Panel

Main Menu >Controller >More>Channels>Channels Config

Web Interface

Home >Controller >Advanced IO>Channels>Channel Configuration

Channel Configuration

Channel	Control Type	Control Source	Flash Yellow	Flash Red	Flash Alt	MMU Channel
1	Phase Vehicle	1		Χ	Х	1
2	Phase Vehicle	2		Х		2
3	Phase Vehicle	3		Х	Х	3
4	Phase Vehicle	4		Х		4
5	Phase Vehicle	5		Х		5
6	Phase Vehicle	6		Х	Х	6
7	Phase Vehicle	7		Х		7
8	Phase Vehicle	8		Х	Х	8
9	Overlap	1		Х	Х	9
10	Overlap	2		Х	Х	10
11	Overlap	3		Х		11
12	Overlap	4		Х		12
13	Phase Ped	2				13
14	Phase Ped	4				14
15	Phase Ped	6				15
16	Phase Ped	8				16
17	Overlap	5		Х	Х	17
18	Overlap	6		Χ		18

# **OVERLAP PROGRAMMING**

Front Panel

Main Menu >Controller >Overlap >Overlap Parameters/Overlap Timings

Web Interface

Home >Controller >Overlap Configuration >Overlaps

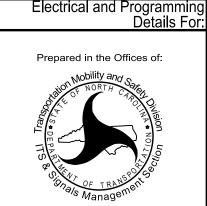
Overlap Plan 1

Overlap	1	2
Туре	FYA 4 - Section	FYA 4 - Section
ncluded Phases	4	8
Modifier Phases	-	-
Modifier Overlaps		-
Trail Green	0	0
Trail Yellow	0.0	0.0
Trail Red	0.0	0.0

This Plan Supersedes Electrical Detail Sealed on 6/23/2022

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 05-0612
DESIGNED: January 2025
SEALED: 2/25/2025
REVISED: N/A

Electrical Detail - Sheet 2 of 2



US 158 Bus.-401 (Main Street) at

US 158 Bus./NC 58 (Macon Street)

Division 5	Warrer	n Cointy	\	Narrenton
PLAN DATE:	February 2025	REVIEWED BY:		
PREPARED BY:	Zarrar Zafar	REVIEWED BY:		
	REVISIONS		INIT.	DATE
				[

Docusigned by:

02/26/2025

A90CADEDRD4241D

DATE

SIG. INVENTORY NO. 05-0612

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

zzafar

49916

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PR

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

T.I.P. NO.

49916

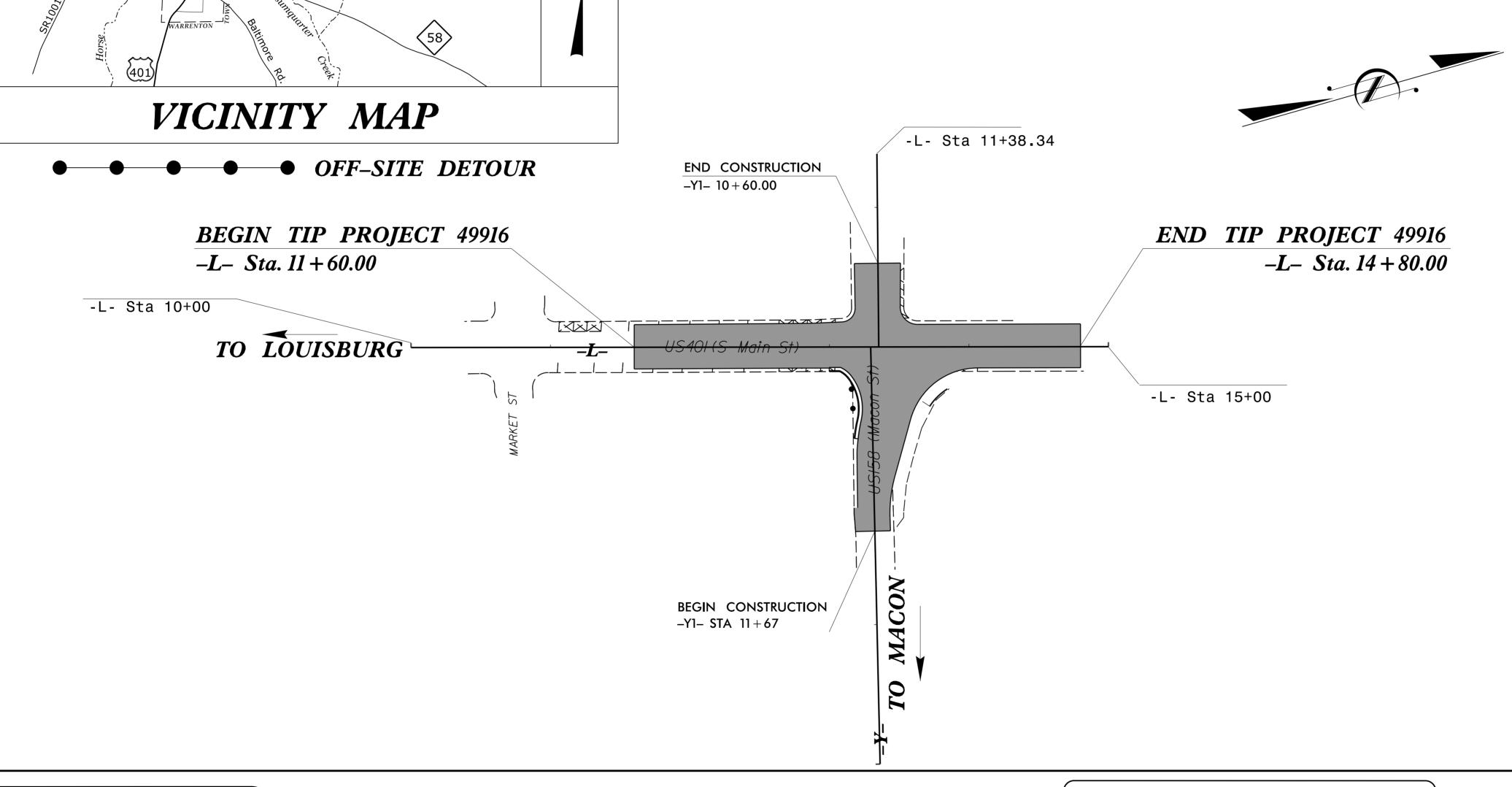
UC-1

SHEET NO.

# WARREN COUNTY UTILITY CONSTRUCTION PLANS

LOCATION: US401 (MAIN ST.) AT US158 BUS. (MACON ST.)

TYPE OF WORK: WATER RELOCATION



# GRAPHIC SCALES PLANS PROFILE (HORIZONTAL) PROFILE (VERTICAL)

# INDEX OF SHEETS

PROJECT LOCATION

SR 1332

**DESCRIPTION:** SHEET NO.: TITLE SHEET UC-1 UTILITY SYMBOLOGY *UC-2* **NOTES** *UC-3* **PLANS** *UC–4* 

# WATER AND SEWER OWNERS ON PROJECT

(A) TOWN OF WARRENTON WATER

PREPARED IN THE OFFICE OF:



PENNONI ASSOCIATES INC. 5430 WADE PARK BLVD., SUITE 106, RALEIGH, NC 27607 PHONE: 919.929.1173 FAX: 919.493.6548 NC LICENSE #F-1267

l	BRIAN WILES, PE	U
	ERIC TWEED, PE	I

LEVI SMITH

UTILITY PROJECT MANAGER PROJECT UTILITY ENGINEER Euc Tweed 30DC82B1819D415...

SEAL



**DIVISION OF HIGHWAYS DIVISION** 5 PROJECT DELIVERY UNIT
2612 NORTH DUKE STREET
DURHAM NC 27704
PHONE (919) 317-4700
FAX (919) 317-4710

SUSAN LANCASTER, PE TEAM LEAD

MATTHEW NOLFO, PE PROJECT MANAGER

DON W PROPER DIVISION UTILITIES ENGINEER

PROJECT UTILITY COORDINATOR

JAMES SWINSON UTILITIES ENGINEER

Note: Not to Scale

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STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SH
49916	L

# CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERT	<i>Y:</i>	RAILROADS:	
State Line —		Standard Gauge ————	CSX TRANSPORTATION
County Line		RR Signal Milepost ————	MILEPOST 35
Township Line		Switch —	
City Line		RR Abandoned	<i>SWITCH</i>
Reservation Line		RR Dismantled	
Property Line ————			VTDOI
Existing Iron Pin (EIP)		RIGHT OF WAY & PROJECT CO.	NIROL:
Computed Property Corner		Primary Horiz Control Point	
Existing Concrete Monument (ECM)		Primary Horiz and Vert Control Point	
Parcel/Sequence Number	(23)	Secondary Horiz and Vert Control Point ——	
Existing Fence Line		Vertical Benchmark	^
Proposed Woven Wire Fence		Existing Right of Way Monument	<u> </u>
Proposed Chain Link Fence		Proposed Right of Way Monument ————————————————————————————————————	
•		Proposed Right of Way Monument ———	
Proposed Barbed Wire Fence	WI P	(Concrete)	^
Existing Wetland Boundary		Existing Permanent Easement Monument ——	$\langle \cdot \rangle$
Proposed Wetland Boundary		Proposed Permanent Easement Monument —— (Rebar and Cap)	<b>•</b>
Existing Endangered Animal Boundary		Existing C/A Monument —	$\triangle$
Existing Endangered Plant Boundary		Proposed C/A Monument (Rebar and Cap) —	<b>^</b>
Existing Historic Property Boundary		Proposed C/A Monument (Concrete) ———	
Known Contamination Area: Soil		Existing Right of Way Line	
Potential Contamination Area: Soil		Proposed Right of Way Line ————	
Known Contamination Area: Water	—— - ҈҈ ─w — ҈҈ ─w —	Existing Control of Access Line ————	( <u>C</u> )
Potential Contamination Area: Water		Proposed Control of Access Line ————	<u> </u>
Contaminated Site: Known or Potential —		Proposed ROW and CA Line —	
BUILDINGS AND OTHER CUI	LTURE:	Existing Easement Line —————	——E——
Gas Pump Vent or U/G Tank Cap	O	Proposed Temporary Construction Easement—	——Е——
Sign —	<u> </u>	Proposed Temporary Drainage Easement —	TDE
Well —		Proposed Permanent Drainage Easement ——	PDE
Small Mine	<b>─</b>	Proposed Permanent Drainage/Utility Easement	DUE
Foundation —		Proposed Permanent Utility Easement ———	PUE
Area Outline		Proposed Temporary Utility Easement ———	TUE
Cemetery		Proposed Aerial Utility Easement ————	AUE
Building —		ROADS AND RELATED FEATURES	<b>S</b> :
School —		Existing Edge of Pavement	
Church		Existing Curb	
Dam —		Proposed Slope Stakes Cut	
HYDROLOGY:		Proposed Slope Stakes Fill ————	
Stream or Body of Water —		Proposed Curb Ramp	
Hydro, Pool or Reservoir —		Existing Metal Guardrail	
Jurisdictional Stream		Proposed Guardrail —————	
Buffer Zone 1			
Buffer Zone 2		Existing Cable Guiderail	
Flow Arrow		Proposed Cable Guiderail	
Disappearing Stream —		Equality Symbol	•
Spring —		Pavement Removal	
Wetland —		VEGETATION:	
Proposed Lateral, Tail, Head Ditch		Single Tree	슌
False Sump	< ── FLOW	Single Shrub	₿
i diac Juliip		Hedge ———	······································

		WATER:
Woods Line	ײִ-ײִ-ײִ-ײִ	Water Manhole ——
Orchard ————————————————————————————————————	- සි සි සි සි	Water Meter
Vineyard ————————————————————————————————————	Vineyard	Water Valve
EXISTING STRUCTURES:		Water Hydrant ——
MAJOR:		U/G Water Line Test
Bridge, Tunnel or Box Culvert	CONC	U/G Water Line (SUI
Bridge Wing Wall, Head Wall and End Wall		U/G Water Line (SUI
AINOR:	,	U/G Water Line (SUI
Head and End Wall	CONC HW	Above Ground Wate
Pipe Culvert —		TV:
Footbridge —		TV Pedestal
Drainage Box: Catch Basin, DI or JB	СВ	TV Tower
Paved Ditch Gutter		U/G TV Cable Hand
Storm Sewer Manhole	(\$)	U/G TV Test Hole (S
Storm Sewer		U/G TV Cable (SUE
UTILITIES:		U/G TV Cable (SUE
* SUE - Subsurface Utility Engineering		U/G TV Cable (SUE
LOS – Level of Service – A,B,C or D POWER:	(Accoracy)	U/G Fiber Optic Cab
Existing Power Pole		U/G Fiber Optic Cab
Proposed Power Pole	. 6	U/G Fiber Optic Cab
Existing Joint Use Pole	-	GAS:
Proposed Joint Use Pole		Gas Valve
Power Manhole		Gas Meter
Power Line Tower		U/G Gas Line (SUE
Power Transformer		U/G Gas Line (SUE
U/G Power Cable Hand Hole		U/G Gas Line (SUE U/G Gas Line (SUE
H-Frame Pole		Above Ground Gas
U/G Power Line Test Hole (SUE – LOS A)*		
U/G Power Line (SUE – LOS B)*		SANITARY SEWER: Sanitary Sewer Manh
U/G Power Line (SUE – LOS C)*		Sanitary Sewer Mann
U/G Power Line (SUE – LOS D)*	. ————————————————————————————————————	U/G Sanitary Sewer
ELEPHONE:		Above Ground Sanit
Existing Telephone Pole	· -•-	SS Force Main Line
Proposed Telephone Pole	-0-	SS Force Main Line
Telephone Manhole		SS Force Main Line
Telephone Pedestal		SS Force Main Line
Telephone Cell Tower		MISCELLANEOUS:
U/G Telephone Cable Hand Hole	. H <sub>H</sub>	Utility Pole ———
U/G Telephone Test Hole (SUE – LOS A)* —	- •	Utility Pole with Base
U/G Telephone Cable (SUE – LOS B)*	·	Utility Located Objec
U/G Telephone Cable (SUE – LOS C)*	·	Utility Traffic Signal B
U/G Telephone Cable (SUE – LOS D)*	т	Utility Unknown U/G
U/G Telephone Conduit (SUE – LOS B)*	- — — тс— — —	U/G Tank; Water, Ga
U/G Telephone Conduit (SUE – LOS C)*	- — — тс— — —	Underground Storage
U/G Telephone Conduit (SUE – LOS D)*	- тс	A/G Tank; Water, Ga
U/G Fiber Optics Cable (SUE – LOS B)*	· — — — т ғо— — ·	Geoenvironmental Bo
U/G Fiber Optics Cable (SUE – LOS C)*	- — — Т F0— — —	Abandoned Accordin
U/G Fiber Optics Cable (SUE – LOS D)*	- T FO ———	End of Information —

WATER:	
Water Manhole	W
Water Meter	
Water Valve	
Water Hydrant	ф С
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	
	$\bigotimes$
U/G TV Cable Hand Hole	HH
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)* ——	TV F0
GAS:	^
Gas Valve	$\Diamond$
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	<b>(+)</b>
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:	. 55
Utility Pole —	
Utility Pole with Base —	$\Box$
Utility Located Object —	$\odot$
Utility Traffic Signal Box —	<u> </u>
Utility Unknown U/G Line (SUE – LOS B)*	<del></del> -
U/G Tank; Water, Gas, Oil —————	1011
Underground Storage Tank, Approx. Loc. —	
A/G Tank; Water, Gas, Oil ————	(UST)
•	
Geoenvironmental Boring ————————————————————————————————————	
	AATUR

E.O.I.

# GENERAL NOTES:

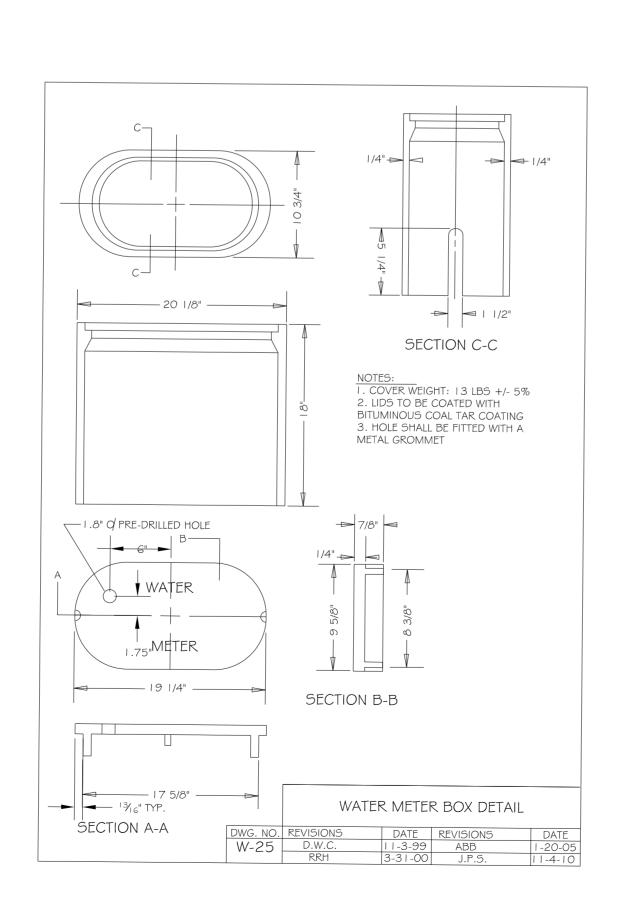
- 1. THE PROPOSED UTILITY CONSTRUCTION
  SHALL MEET THE APPLICABLE REQUIREMENTS
  OF THE NC DEPARTMENT OF
  TRANSPORTATION'S "STANDARD
  SPECIFICATIONS FOR ROADS AND
  STRUCTURES" DATED JANUARY 2024.
- 2. THE EXISTING UTILITIES BELONG TO WARREN COUNTY.
- 3. ALL WATER LINES TO BE INSTALLED
  WITHIN COMPLIANCE OF THE RULES AND
  REGULATIONS OF THE NORTH CAROLINA
  DEPARTMENT OF ENVIRONMENTAL QUALITY,
  DIVISION OF WATER RESOURCES,
  PUBLIC WATER SUPPLY SECTION. ALL SEWER
  LINES TO BE INSTALLED WITHIN COMPLIANCE
  OF THE RULES AND REGULATIONS OF THE
  NORTH CAROLINA DEPARTMENT OF
  ENVIRONMENT QUALITY, DIVISION OF WATER
  RESOURCES, WATER QUALITY SECTION.
  PERFORM ALL WORK IN ACCORDANCE WITH THE
  APPLICABLE PLUMBING CODES.
- 4. THE UTILITY OWNER OWNS THE EXISTING UTILITY FACILITIES AND WILL OWN THE NEW UTILITY FACILITIES AFTER ACCEPTANCE BY THE DEPARTMENT. THE DEPARTMENT OWNS THE CONSTRUCTION CONTRACT AND HAS ADMINISTRATIVE AUTHORITY. COMMUNICATIONS AND DECISIONS BETWEEN THE CONTRACTOR AND UTILITY OWNER ARE NOT BINDING UPON THE DEPARTMENT OR THIS CONTRACT UNLESS AUTHORIZED BY THE ENGINEER. AGREEMENTS BETWEEN THE UTILITY OWNER AND CONTRACTOR FOR THE WORK THAT IS NOT PART OF THIS CONTRACT OR IS SECONDARY TO THIS CONTRACT ARE ALLOWED, BUT ARE NOT BINDING UPON THE DEPARTMENT.
- 5. PROVIDE ACCESS FOR THE DEPARTMENT
  PERSONNEL AND THE OWNER'S
  REPRESENTATIVES TO ALL PHASES OF
  CONSTRUCTION. NOTIFY DEPARTMENT
  PERSONNEL AND THE UTILITY OWNER TWO
  WEEKS PRIOR TO COMMENCEMENT OF ANY WORK
  AND ONE WEEK PRIOR TO SERVICE
  INTERRUPTION. KEEP UTILITY OWNERS'
  REPRESENTATIVES INFORMED OF WORK
  PROGRESS AND PROVIDE OPPORTUNITY FOR
  INSPECTION OF CONSTRUCTION AND TESTING.
- 6. THE PLANS DEPICT THE BEST AVAILABLE INFORMATION FOR THE LOCATION, SIZE, AND TYPE OF MATERIAL FOR ALL EXISTING UTILITIES. MAKE INVESTIGATIONS FOR DETERMINING THE EXACT LOCATION, SIZE, AND TYPE MATERIAL OF THE EXISTING FACILITIES AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED UTILITIES AND FOR AVOIDING DAMAGE TO EXISTING FACILITIES. REPAIR ANY DAMAGE INCURRED TO EXISTING FACILITIES TO THE ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE DEPARTMENT.

# **UTILITY CONSTRUCTION**

- 7. MAKE FINAL CONNECTIONS OF THE NEW WORK TO THE EXISTING SYSTEM WHERE INDICATED ON THE PLANS, AS REQUIRED TO FIT THE ACTUAL CONDITIONS, OR AS DIRECTED.
- 8. MAKE CONNECTIONS BETWEEN EXISTING AND PROPOSED UTILITIES AT TIMES MOST CONVENIENT TO THE PUBLIC, WITHOUT ENDANGERING THE UTILITY SERVICE, AND IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS. MAKE CONNECTIONS ON WEEKENDS, AT NIGHT, AND ON HOLIDAYS IF NECESSARY.
- 9. ALL UTILITY MATERIALS SHALL BE APPROVED PRIOR TO DELIVERY TO THE PROJECT. SEE 1500-7, "SUBMITTALS AND RECORDS" IN SECTION 1500 OF THE STANDARD SPECIFICATIONS.

# PROJECT SPECIFIC NOTES:

1. CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 102, 107, AND 1550 OF THE STANDARD SPECIFICATIONS CONCERNING TRENCHLESS INSTALLATION. IT IS CONTRACTOR'S RESPONSIBILITY TO HAVE BORE DESIGNED AND SEALED BY A LICENSED NORTH CAROLINA PROFESSIONAL ENGINEER. NO DAMAGE IS ALLOWED TO RIVER, WETLANDS, OR BUFFER ZONES.



SEE DETAIL W-25 R FOR METER BOX W DUAL CHECK VALVE BACKFLOW PRE- VENTION DEVICE  PLUG LOCK  R R R R R R R R R R R R R R R R R R	3/4" OR 1" TYPE "K"  SOUPLINGS  5/8"x 12" COPPER  SETTER METER YOKE	SCHLUMBERGER.  1 G" LINE,  ROPERTY OR IN APPROVED  A COPPER RESETTER CAN BE PROHIBITED ON NEW SERVICES. PROHIBITED ON DEW SERVICES.  PRIVAGON BOLT, 1-1/4" STEEL  MARY ROD TO BE PROVIDED FOR
ROADWAY SIDEWALK TOP OF VALVE NEEDS TO BE 12" BENEATH TOP OF METER BOX LID.  LOCKABLE VALVE	BACKFILL, TAMPED IN 6" LIFTS IN 6" LIFTS CONCRETE BRICK UNDER CORPORATION COCK FOR SUPPORT CORPORATION COCK	NOTES:  NOTES:

PROJECT REFERENCE NO. SHEET NO.

49916

DESIGNED BY: EMT

DRAWN BY: LMS

CHECKED BY:

APPROVED BY:

REVISED:

NORTH CAROLINA
DEPARTMENT OF
TRANSPORTATION

UTILITIES ENGINEERING SEC.
PHONE: (919)707-6690
FAX: (919)250-4151

SHEET NO.

LUC - 3

CAROLINA
DOCUSIONE

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2/19/2025

UT:

PLANS ONLY

# UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Z/6/ZUZS |PPRIMA|UC\Proj\49916\_ut\_notes\_UC03\_psh.dgn

2/6/2025\_\_\_\_\_

