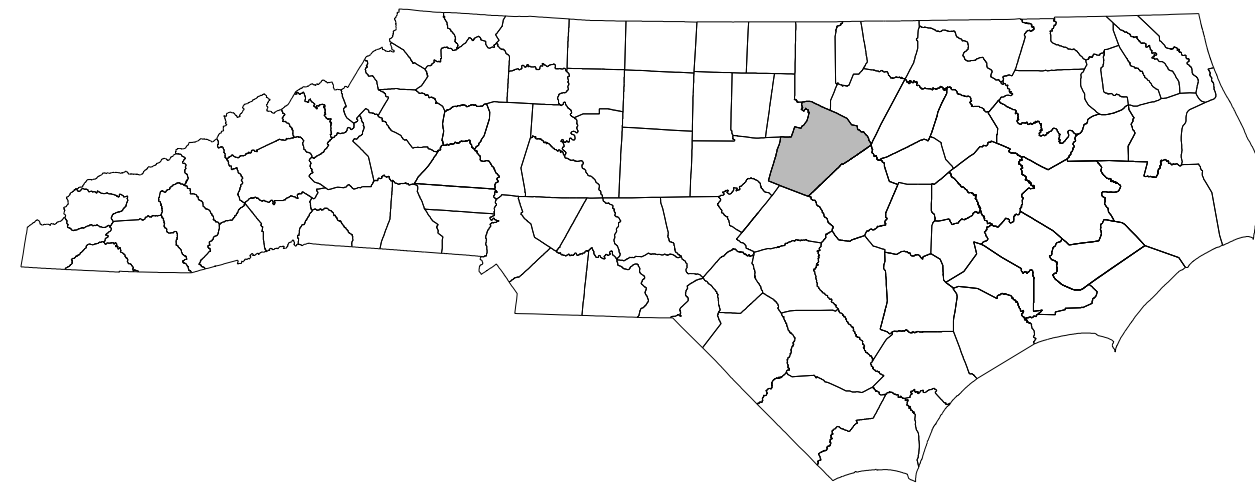


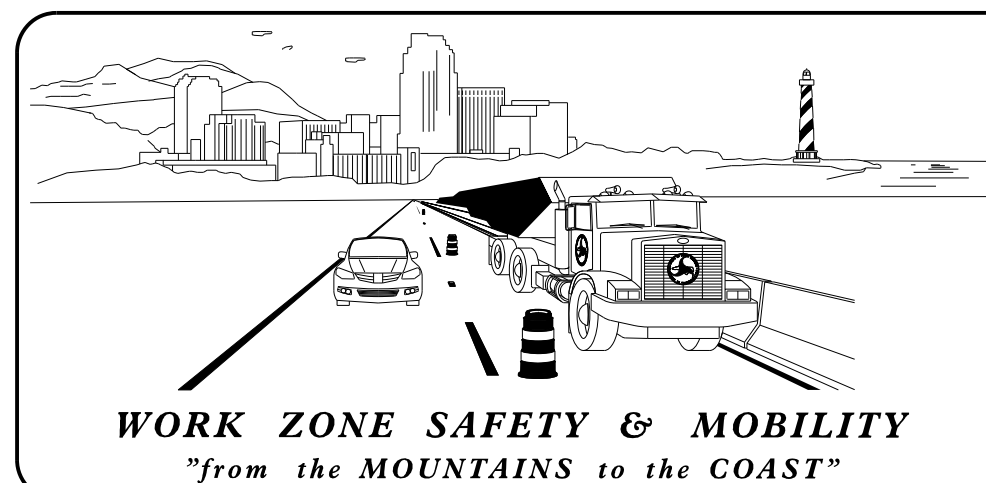
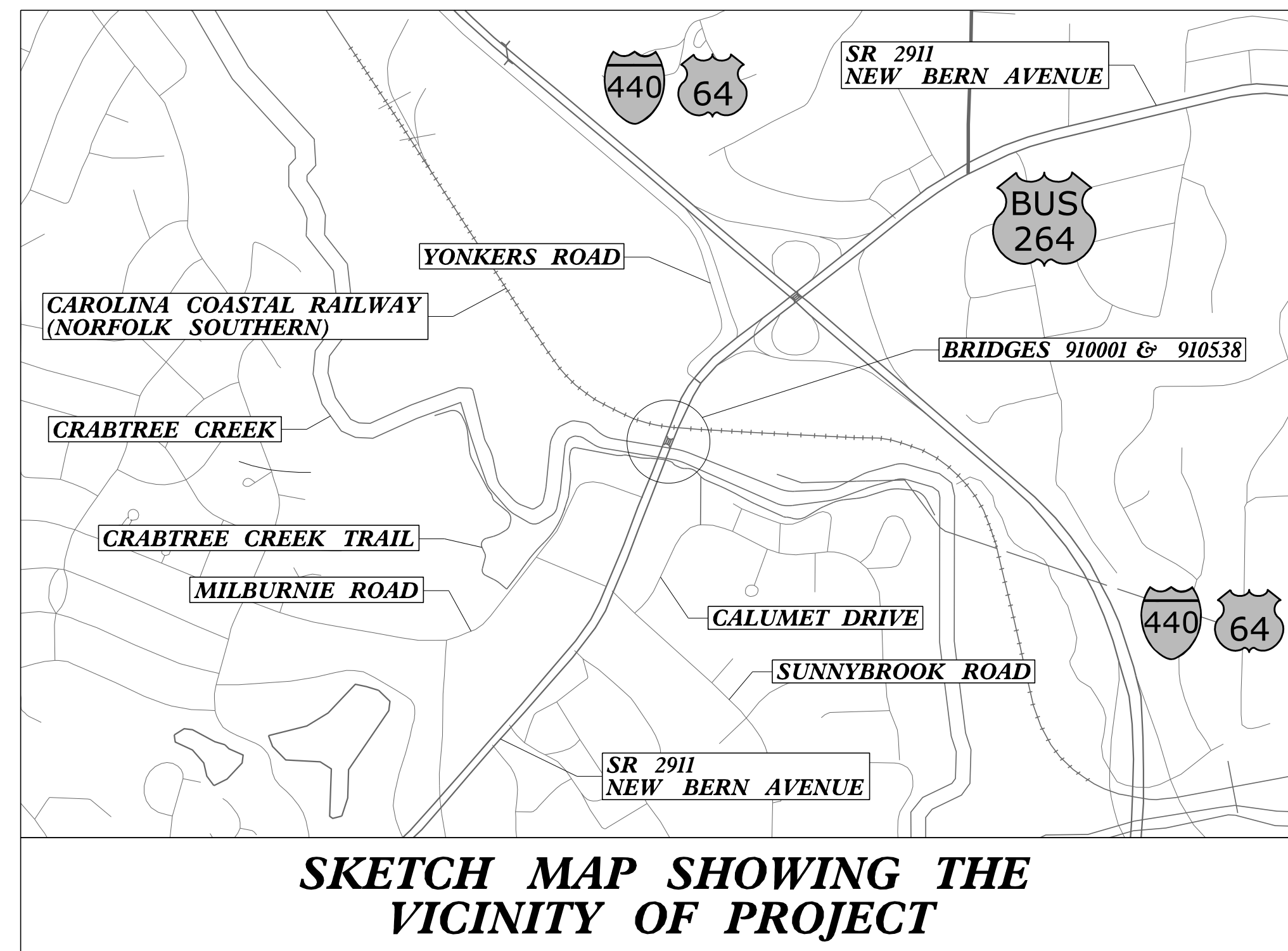
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN
WAKE COUNTY



LOCATION: BRIDGES 910001 & 910538 ON SR 2911 (NEW BERN AVE) OVER CRABTREE CREEK, CRABTREE CREEK TRAIL AND CAROLINA COASTAL RAILWAY / NORFOLK SOUTHERN RAILROAD

TYPE OF WORK: TRAFFIC MANAGEMENT FOR BRIDGE REHABILITATION



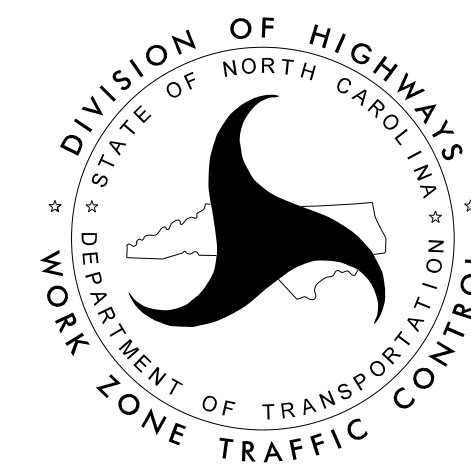
PLANS PREPARED BY:

RICK NELSON, PE
PROJECT ENGINEER

BENJAMIN A. WHITE, PE
PROJECT DESIGN ENGINEER

NCDOT CONTACTS:

TIM SHERRILL, PE
PROJECT MANAGER

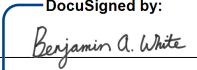


INDEX OF SHEETS

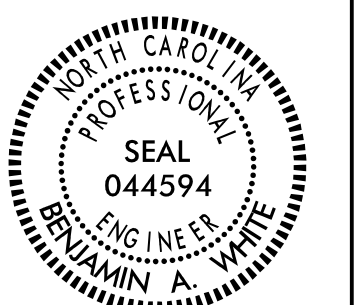
SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, INDEX OF SHEETS AND MANAGEMENT STRATEGIES
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS AND LEGEND
TMP-1B	TRANSPORTATION OPERATIONS PLAN
TMP-3	PHASING
TMP-4 THRU TMP-6	PHASE I DETAILS
TMP-7 THRU TMP-9	PHASE II DETAILS

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APPROVED: 
DATE: 8/13/2025

SEAL



TIP PROJECT: 15BPR.144.3

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
1101.11	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
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
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING

LEGEND

GENERAL

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

SIGNALS

- PROPOSED
- TEMPORARY
- PORTABLE
- DS

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

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

SYMBOL	DESCRIPTION
P20	PAINT WHITE EDGETLINE (6")
P22	PAINT 10 FT. WHITE SKIP (6")
P30	PAINT YELLOW EDGETLINE (6")

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 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
SR 2911 NEW BERN AVENUE SOUTHBOUND SINGLE LANE CLOSURE	MONDAY THRU FRIDAY 6:00 A.M. TO 10:00 A.M.
SR 2911 NEW BERN AVENUE NORTHBOUND SINGLE LANE CLOSURE	MONDAY THRU FRIDAY 2:00 P.M. TO 6:00 P.M.
SR 2911 NEW BERN AVENUE DOUBLE LANE CLOSURE	MONDAY THRU FRIDAY 6:00 A.M. TO 8:00 P.M. SATURDAY THRU SUNDAY 10:00 A.M. TO 8:00 P.M.

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

ROAD NAME

SR 2911 NEW BERN AVENUE

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 8:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 8:00 P.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 8:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 8:00 P.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 8:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 8:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 8:00 P.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 8:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00 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.
- D) 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.
- E) 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.
- F) 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.
- G) 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.

TRAFFIC PATTERN ALTERATIONS

- H) 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.
- J) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
SR 2911 NEW BERN AVE	PAINT	N/A

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

MISCELLANEOUS

- N) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.

PHASING

NOTE: BEFORE BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL PLACE ADVANCE WORK ZONE WARNING SIGNS PER ROADWAY STANDARD DRAWING DRAWING 1101.01 SHEET 2 OF 3.

PERFORM ONLY THE AMOUNT OF DECK OVERLAY TO FINAL ELEVATION THAT CAN BE ACCOMPLISHED BEFORE LANES ARE RE-OPENED TO TRAFFIC.

PERFORM BRIDGE JACKING OPERATIONS AS DIRECTED BY THE ENGINEER.

INSTALL PROTECTIVE CANOPY AS SHOWN IN PROJECT SPECIAL PROVISIONS ALONG CRABTREE CREEK TRAIL UNDERNEATH BRIDGES 910001 AND 910538. SEE SHEETS TMP-5 AND TMP-8 FOR MORE DETAILS. THE CONTRACTOR SHALL KEEP CRABTREE CREEK TRAIL CLEAR OF ANY OBSTACLES AT ALL TIMES.

INSTALL/UNCOVER OR REMOVE/COVER ANY SIGNS NEEDED FOR LANE CLOSURES AT THE BEGINNING/END OF EACH WORK PERIOD.

PHASE I

STEP 1: BEFORE BEGINNING CONSTRUCTION AND USING ROADWAY STANDARD DRAWINGS 1261.01 AND 1261.02, REPLACE CONCRETE BARRIER DELINEATORS ON BRIDGES 910001 AND 910538.

STEP 2: USING ROADWAY STANDARD DRAWINGS 1101.02 SHEET 3, 8 AND 13 OF 19, CLOSE THE TWO OUTSIDE LANES IN THE NORTHBOUND DIRECTION AND THE OUTSIDE LANE IN THE SOUTHBOUND DIRECTION ON SR 2911 (NEW BERN AVE) AS SHOWN ON SHEETS TMP-4 THRU TMP-6. PERFORM BRIDGE DECK PRESERVATION. COMPLETE PROPOSED MILLING AND PAVING IN SUCH A MANNER THAT PONDING OF WATER WILL NOT OCCUR IN THE TRAVEL LANES. INSTALL TEMPORARY PAVEMENT MARKINGS AS NECESSARY AT THE END OF EACH WORK PERIOD. ONCE DECK REHABILITATION WORK IN EACH LANE IS COMPLETE, INSTALL FINAL PAVEMENT MARKINGS.

CONTRACTOR MAY ELECT TO USE ROADWAY STANDARD DRAWING 1101.02 SHEET 3 OF 19 TO PERFORM CONSTRUCTION UNDER SINGLE LANE CLOSURES AS OPPOSED TO DOUBLE LANE CLOSURES WHERE APPLICABLE TO AVOID TRAFFIC DELAY AT THE DISCRETION OF THE ENGINEER.

PLACE SEQUENTIAL FLASHING WARNING LIGHTS IN ALL MERGE TAPERS.

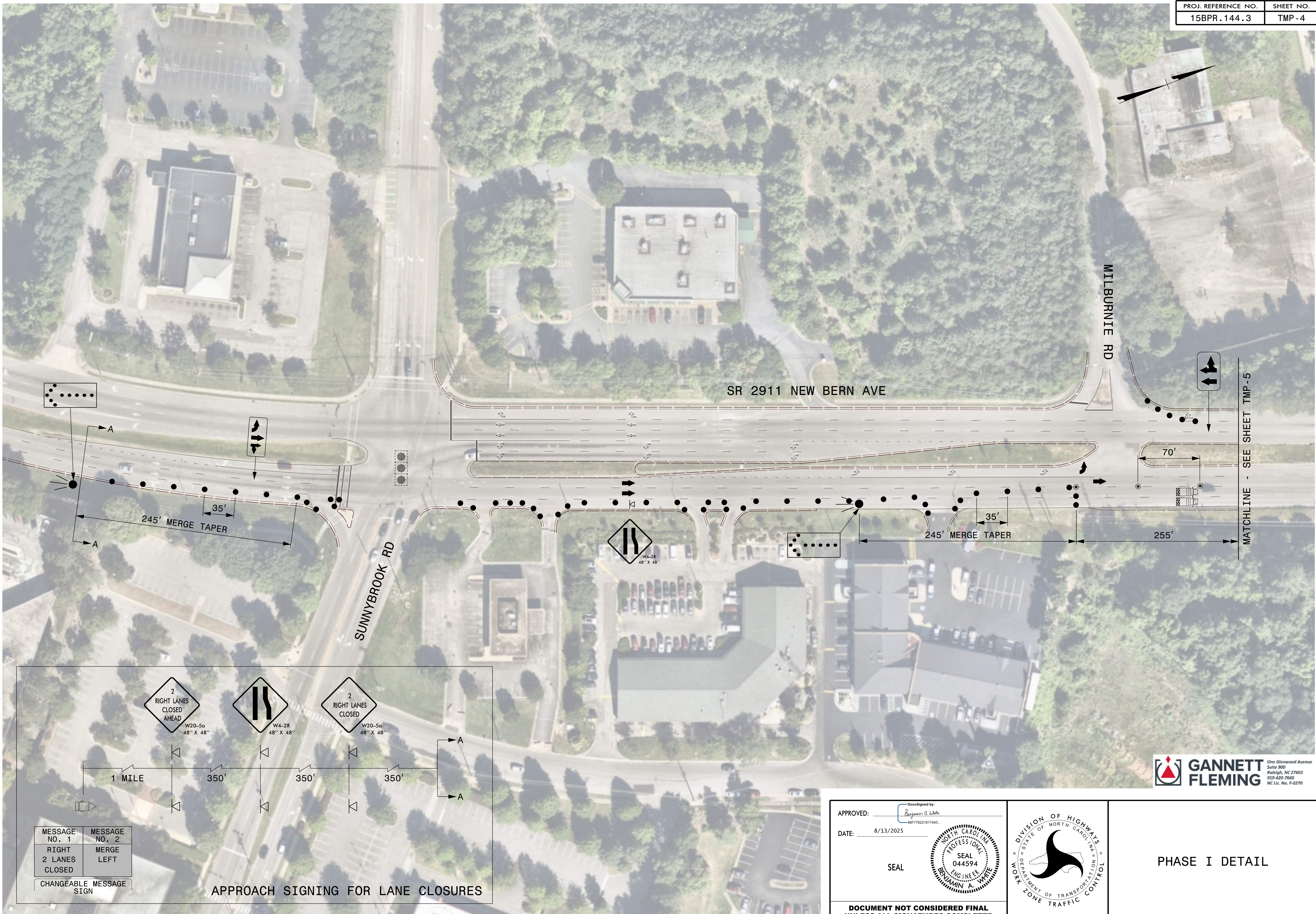
PHASE II

STEP 1: USING ROADWAY STANDARD DRAWING 1101.02 SHEET 8 OF 19, CLOSE THE TWO INSIDE LANES IN BOTH THE NORTHBOUND AND SOUTHBOUND DIRECTIONS ON SR 2911 (NEW BERN AVE) AS SHOWN ON SHEETS TMP-7 THRU TMP-9. PERFORM BRIDGE DECK PRESERVATION. COMPLETE PROPOSED MILLING AND PAVING IN SUCH A MANNER THAT PONDING OF WATER WILL NOT OCCUR IN THE TRAVEL LANES. INSTALL TEMPORARY PAVEMENT MARKINGS AS NECESSARY AT THE END OF EACH WORK PERIOD. ONCE DECK REHABILITATION WORK IN EACH LANE IS COMPLETE, INSTALL FINAL PAVEMENT MARKINGS.

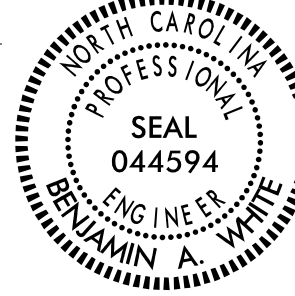
CONTRACTOR MAY ELECT TO USE ROADWAY STANDARD DRAWING 1101.02 SHEET 3 OF 19 TO PERFORM CONSTRUCTION UNDER SINGLE LANE CLOSURES AS OPPOSED TO DOUBLE LANE CLOSURES WHERE APPLICABLE TO AVOID TRAFFIC DELAY AT THE DISCRETION OF THE ENGINEER.

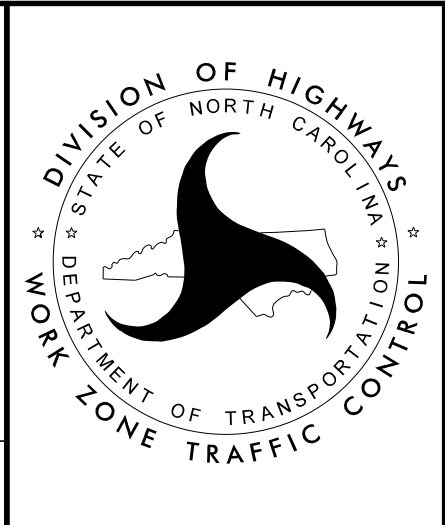
PLACE SEQUENTIAL FLASHING WARNING LIGHTS IN ALL MERGE TAPERS.

STEP 2: REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES.



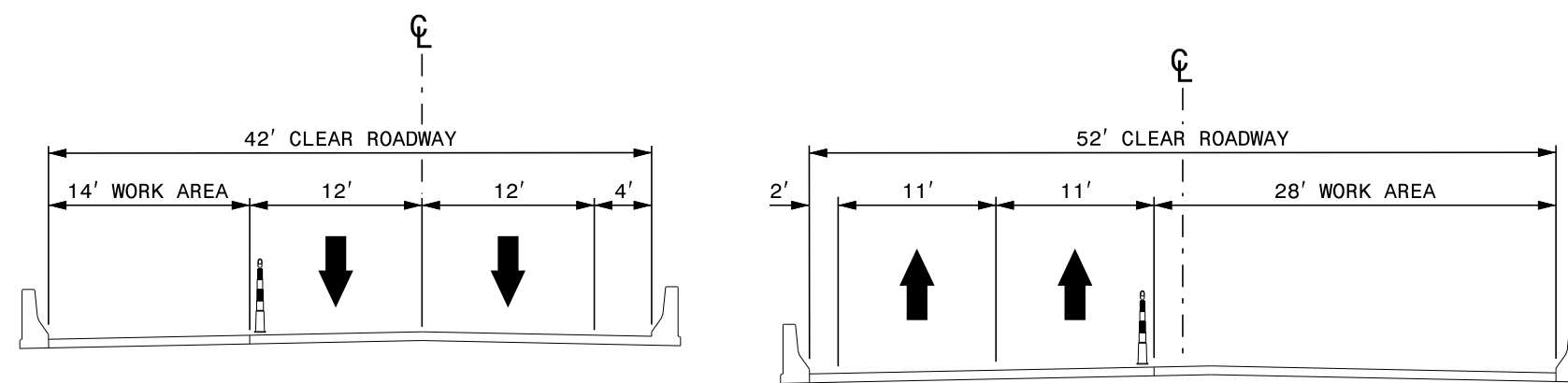
GANNETT FLEMING
One Glenwood Avenue
Suite 900
Raleigh, NC 27603
919-420-7660
NC Lic. No. F-0270

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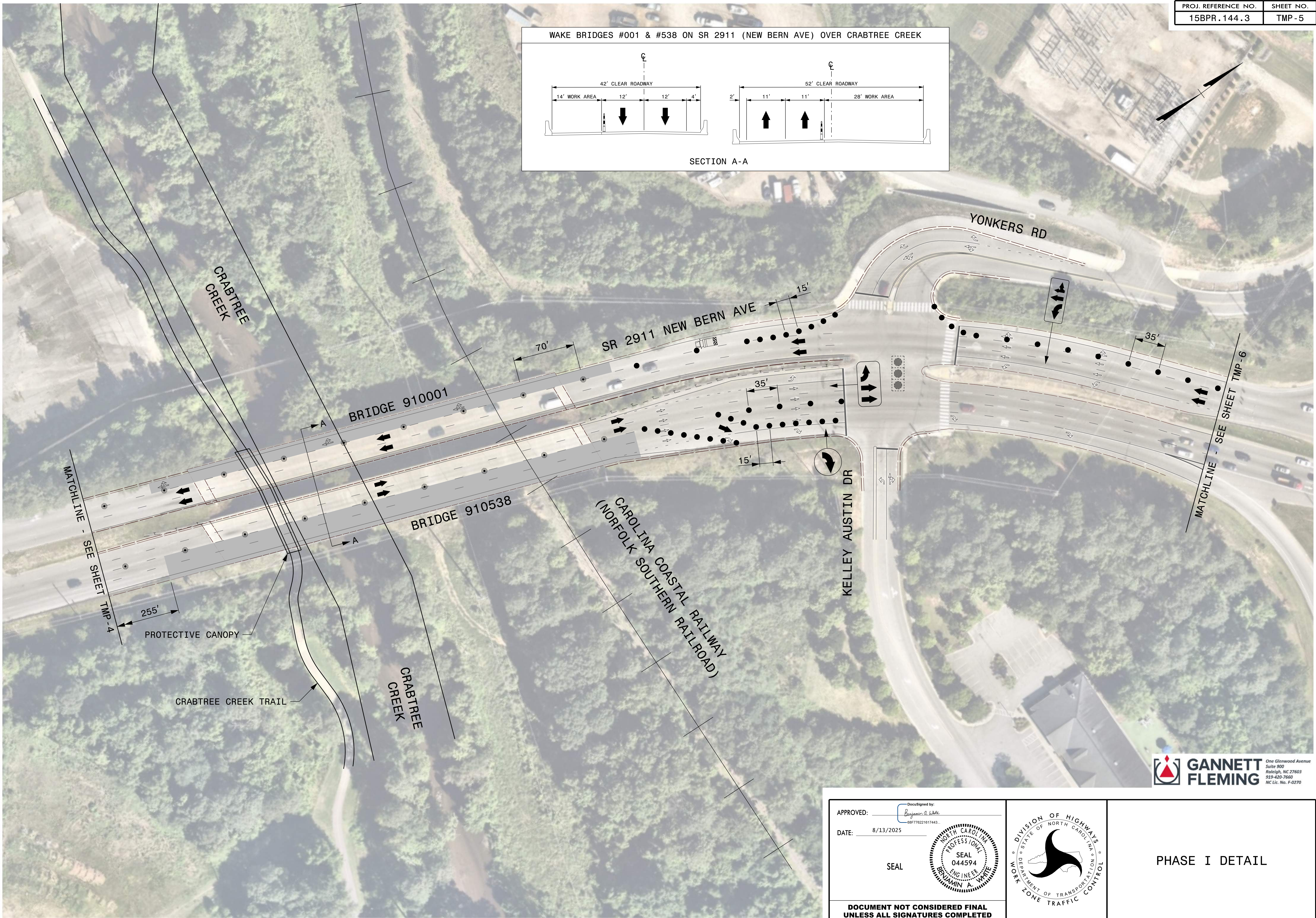


PHASE I DETAIL

WAKE BRIDGES #001 & #538 ON SR 2911 (NEW BERN AVE) OVER CRABTREE CREEK



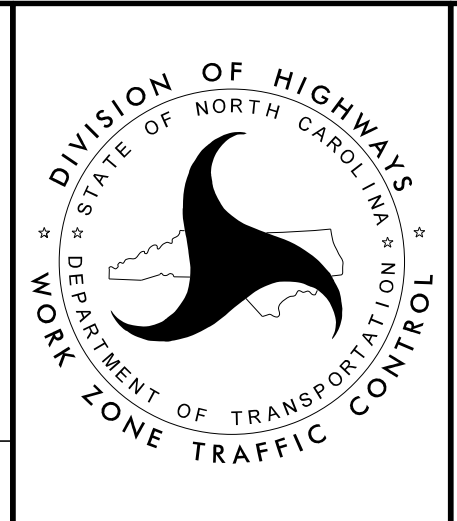
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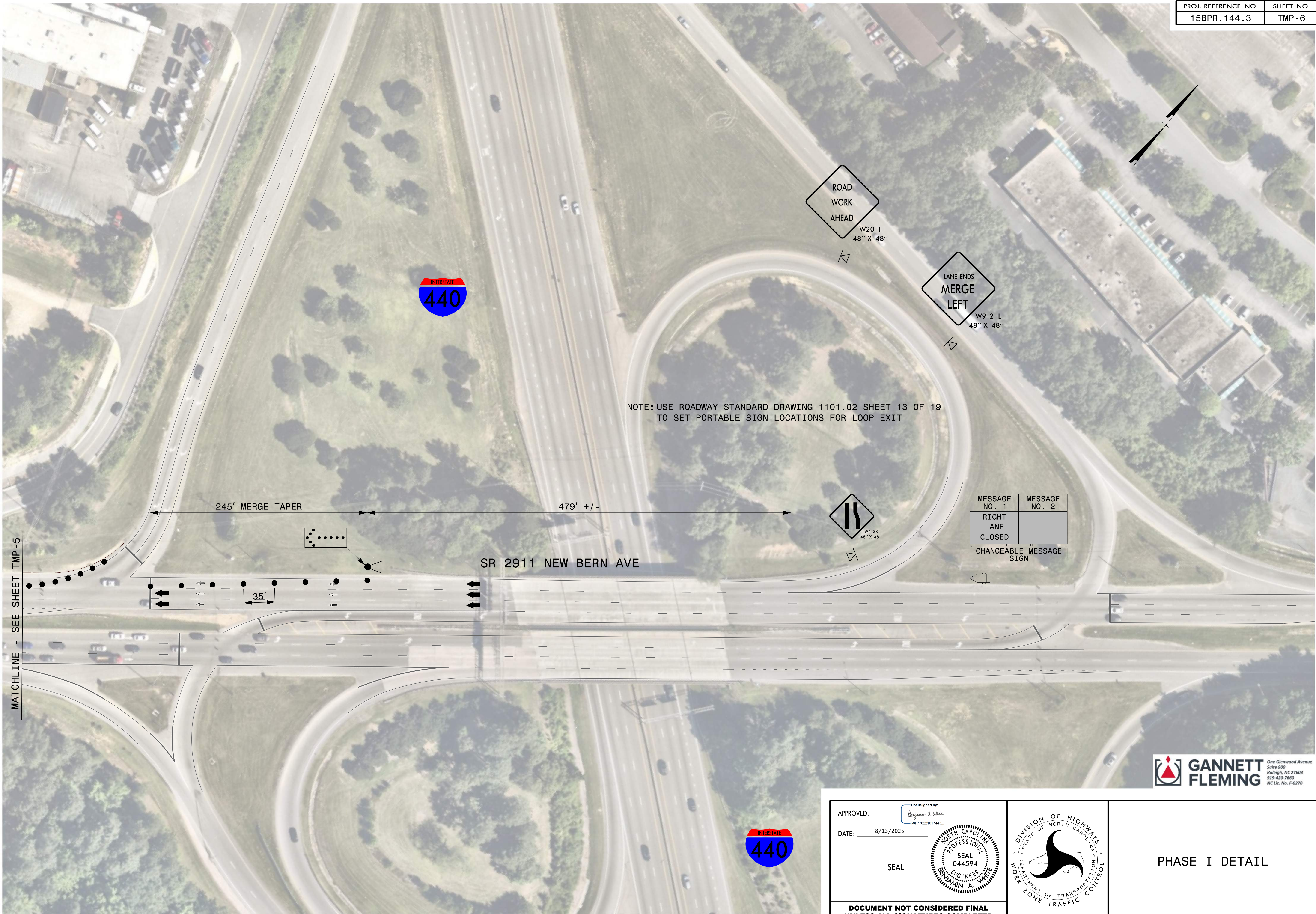
GANNETT FLEMING
One Glenwood Avenue
Suite 900
Raleigh, NC 27603
919-420-7660
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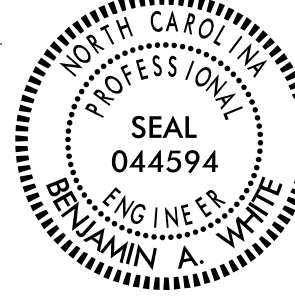


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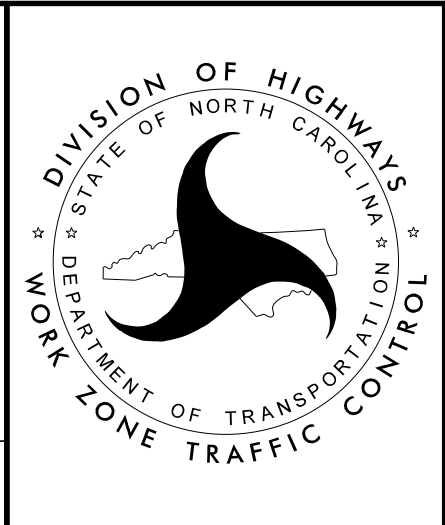


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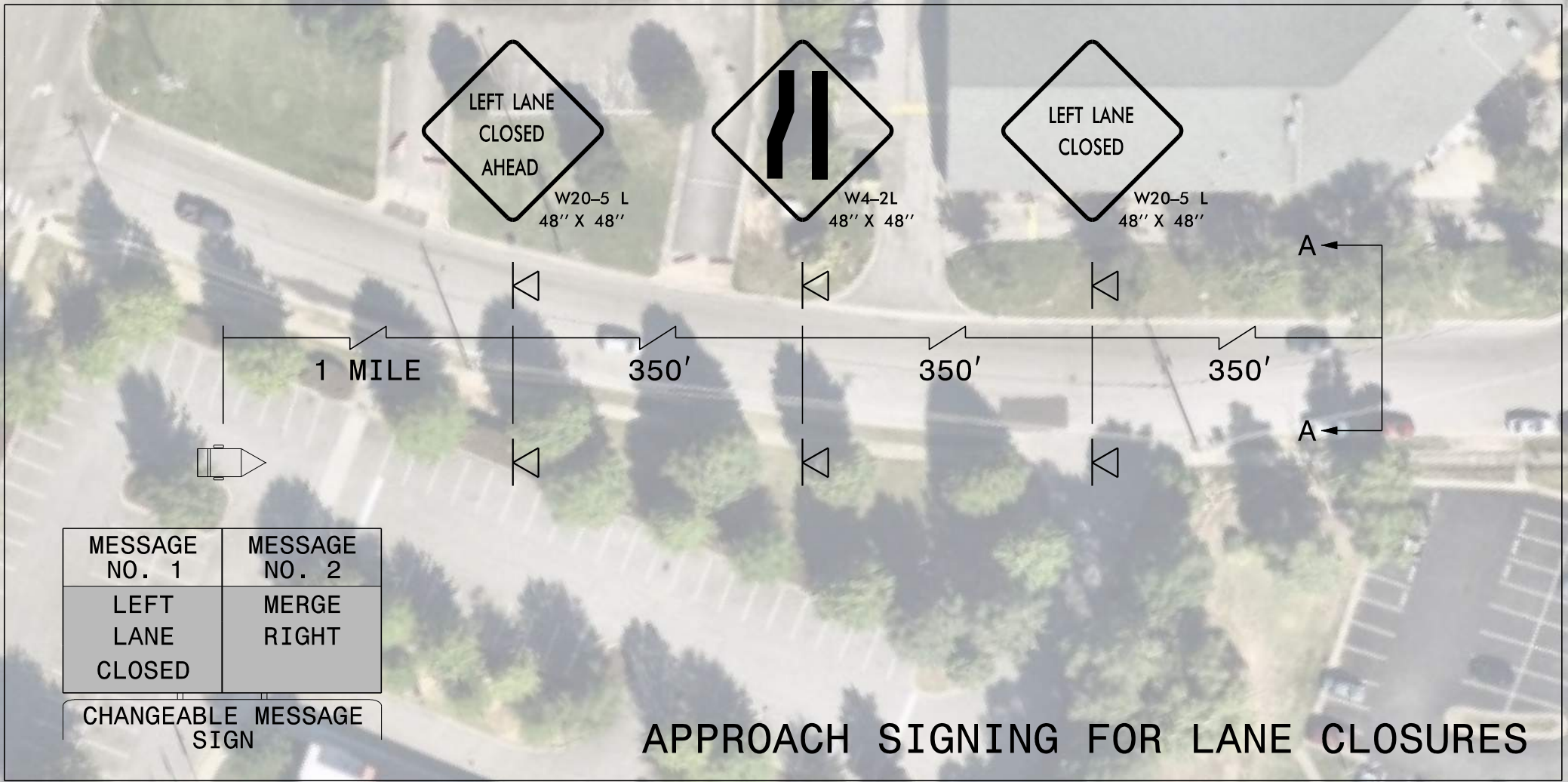
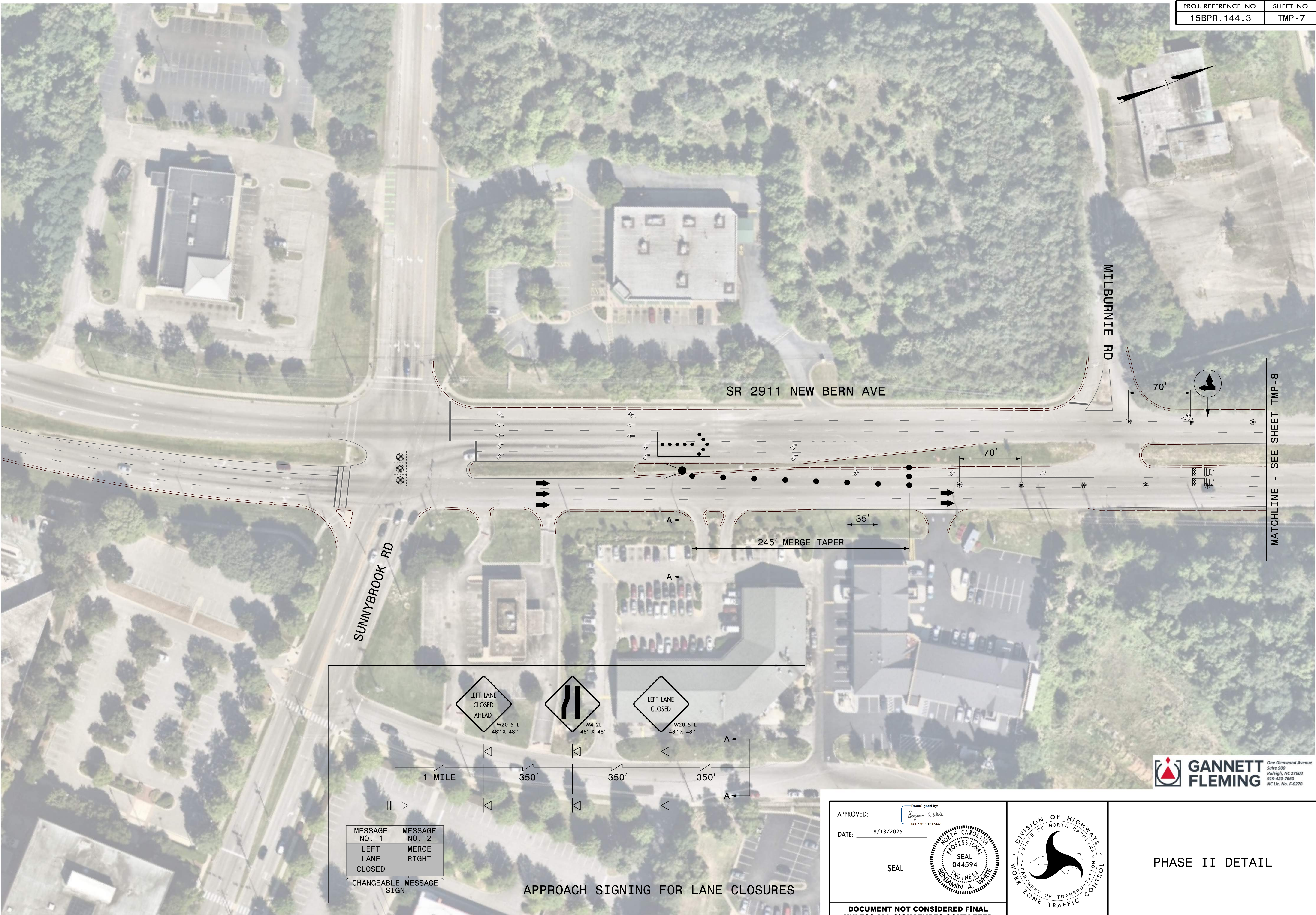
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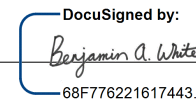


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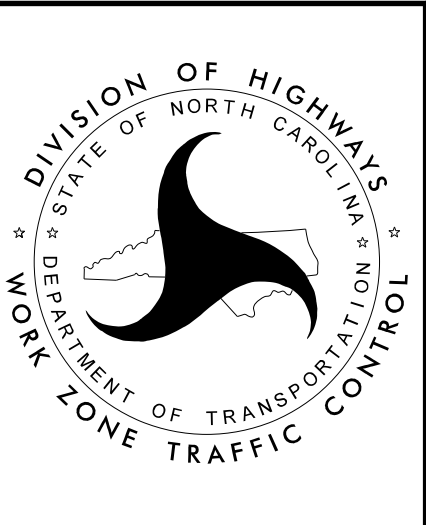
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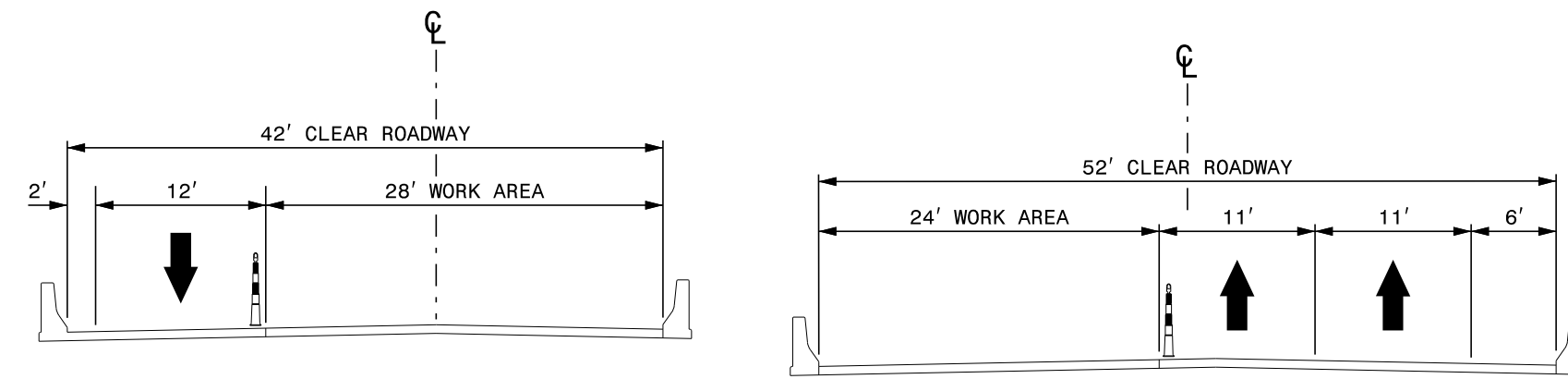
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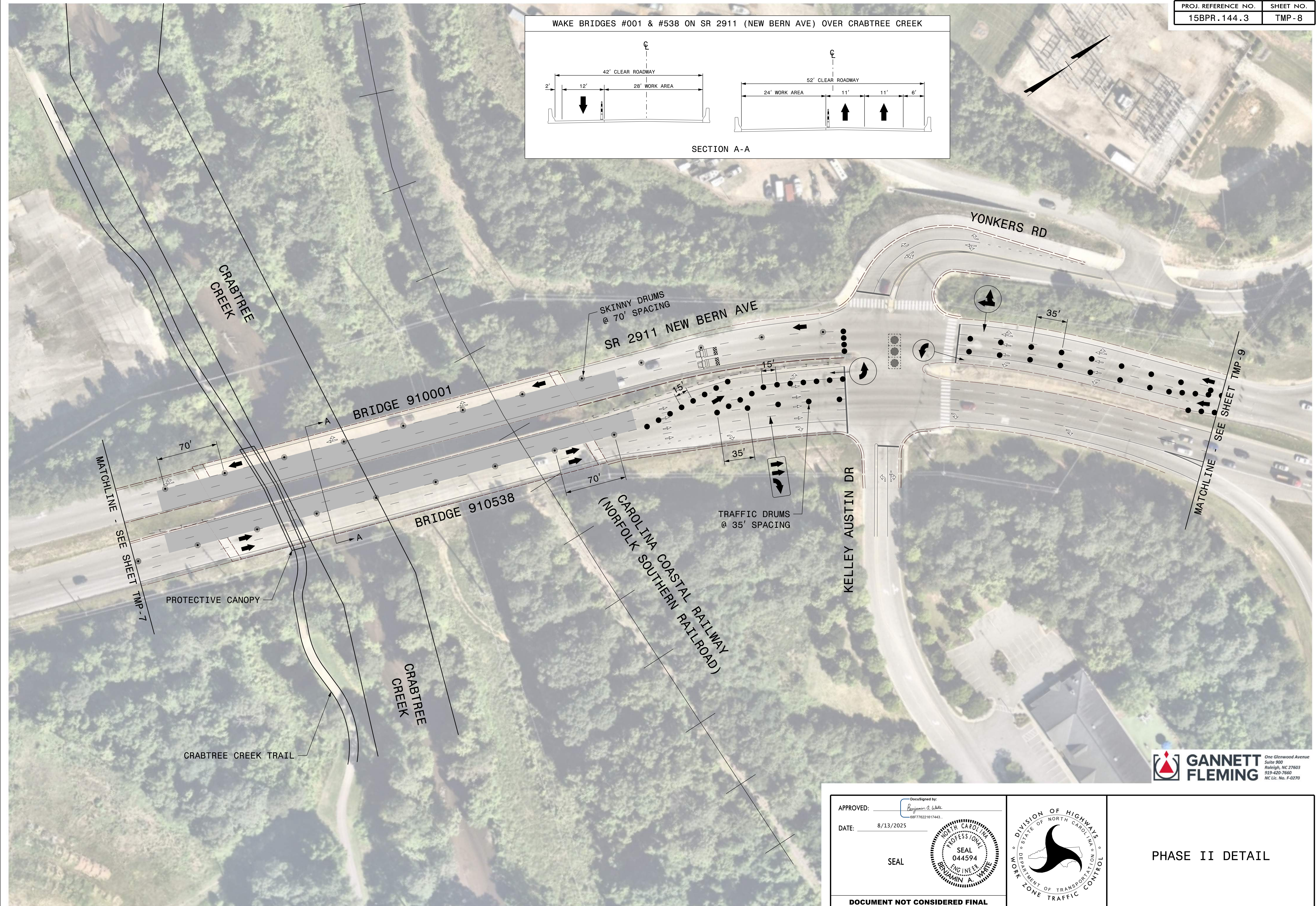


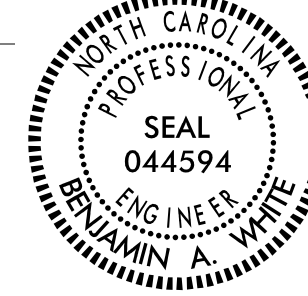
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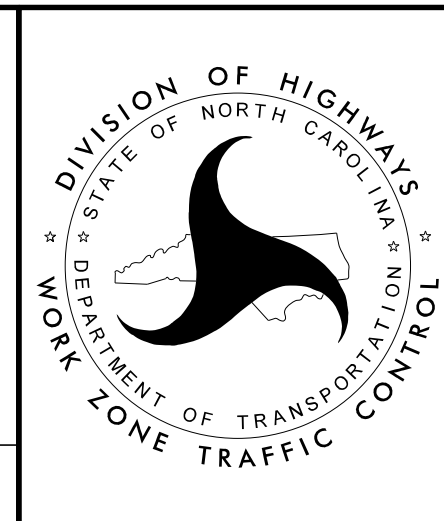
WAKE BRIDGES #001 & #538 ON SR 2911 (NEW BERN AVE) OVER CRABTREE CREEK



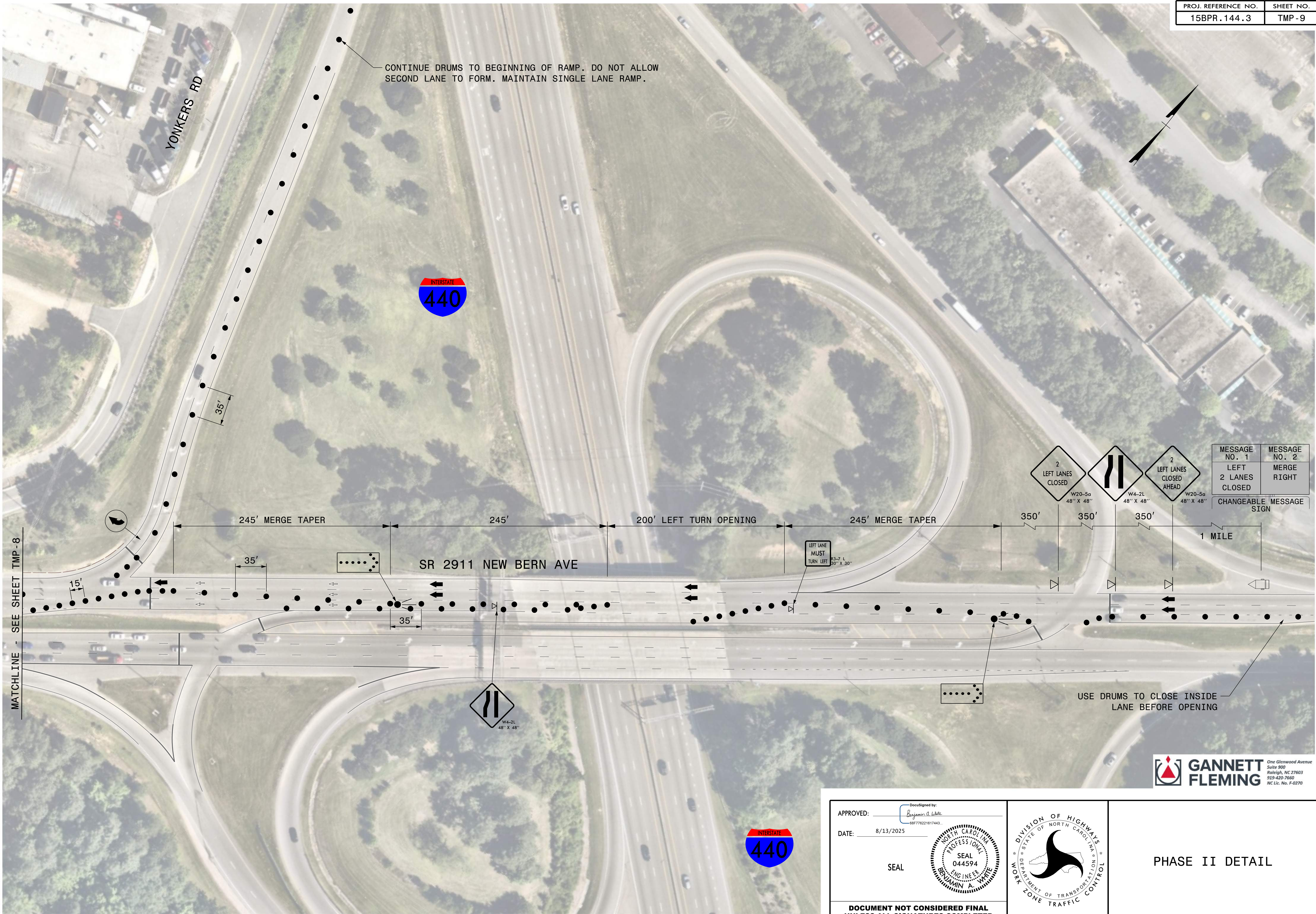
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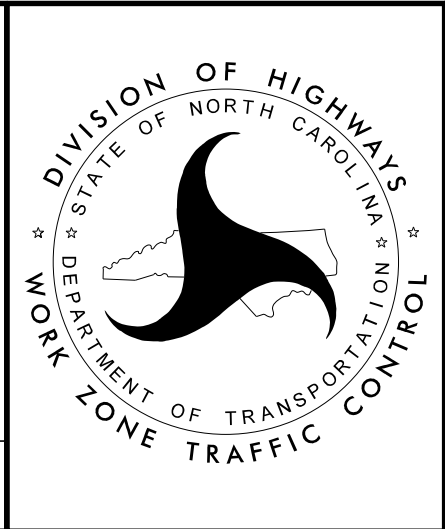
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PHASE II DETAIL