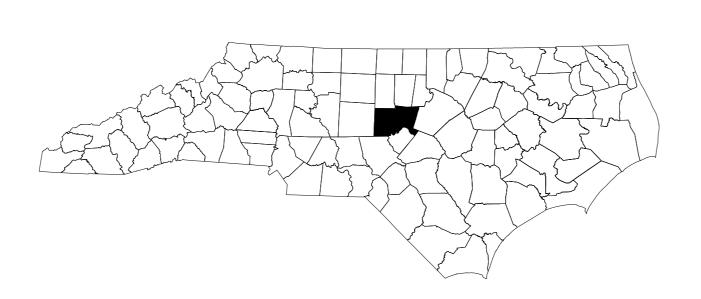
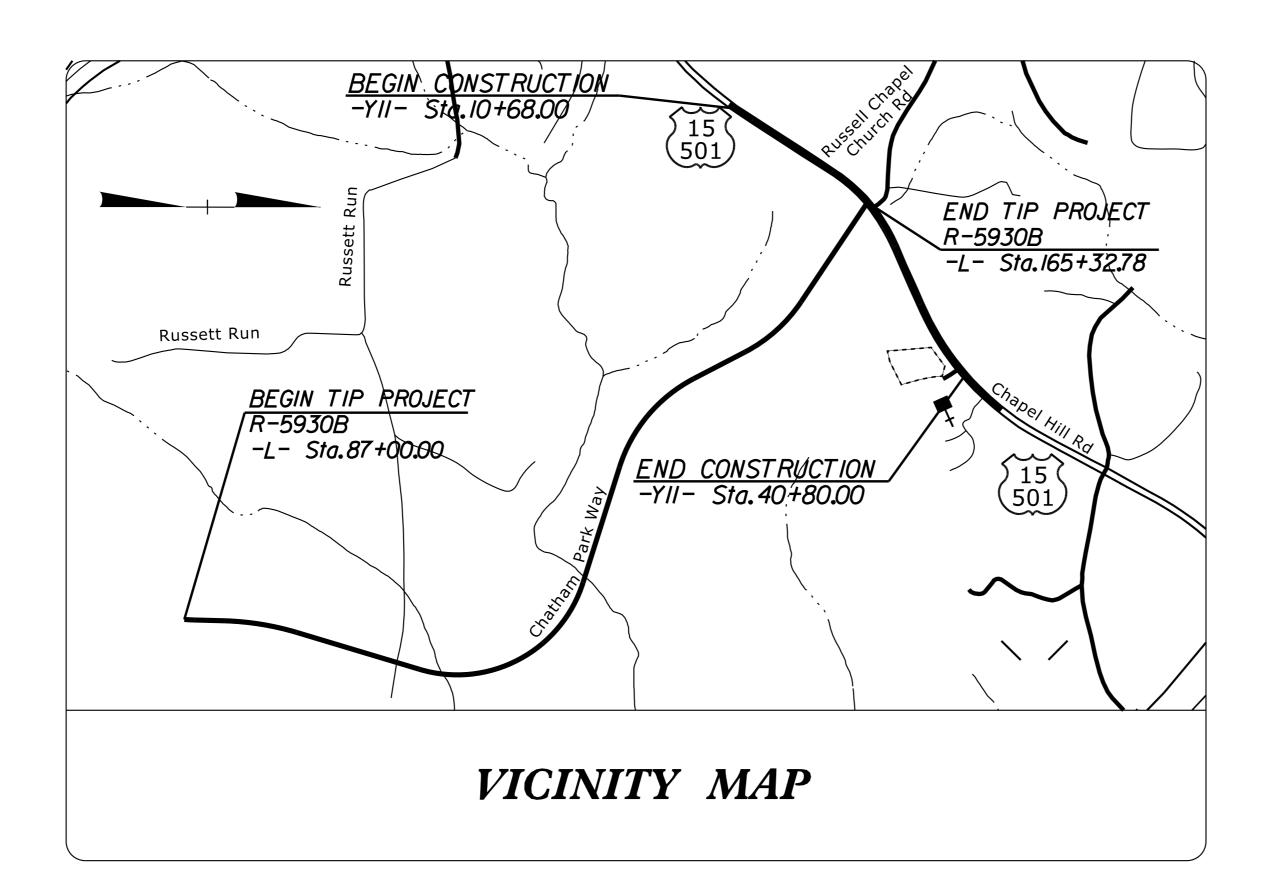
TRANSPORTATION MANAGEMENT PLAN

CHATHAM COUNTY





INDEX OF SHEETS

TMP - 1

SHEET NO.

LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, MANAGEMENT STRATEGIES, GENERAL NOTES, AND LOCAL NOTES TMP-1A THRU TMP-1C

PHASING NOTES TMP-2 TMP-3 AREAS OVERVIEW AREA A, PHASE 1 AREA A, PHASE 2 TMP-8 AREA B, PHASE 2

APPROVED: Vanco W. Blate $DATE: \frac{2/10/2025}{}$ SEALDOCUMENT NOT CONSIDERED FINAL **UNLESS ALL SIGNATURES COMPLETED**

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

PLANS PREPARED BY: VANCE BLANTON, P.E.

JEFFREY L. TEAGUE, P.E. PROJECT ENGINEER ADAM MILLER, E.I.

JEFFREY A. STRODER, P.E. PROJECT DESIGN ENGINEER

NCDOT CONTACTS:



TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS

SHEET NO.

TMP-1

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" -N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

TITLE STD. NO.

1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE 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
1150.01	FLAGGERS
1180.01	SKINNY DRUMS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.15	PAVEMENT MARKINGS - REDUCED CONFLICT INTERSECTIONS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY

LEGEND

GENERAL

DIRECTION OF TRAFFIC FLOW

DIRECTION OF PEDESTRIAN TRAFFIC FLOW

----- EXIST. PVMT.

NORTH ARROW

——— PROPOSED PVMT.

TEMP. SHORING (LOCATION PURPOSES ONLY)

DRUM

SKINNY DRUM

TUBULAR MARKER

WORK AREA

TRAFFIC CONTROL DEVICES

BARRICADE (TYPE III)

TEMPORARY CRASH CUSHION

CHANGEABLE MESSAGE SIGN

TRUCK MOUNTED ATTENUATOR (TMA)

FLASHING ARROW BOARD

LAW ENFORCEMENT

REMOVAL

P51 - PAINT (12" WHITE, 2X) DIAGONAL

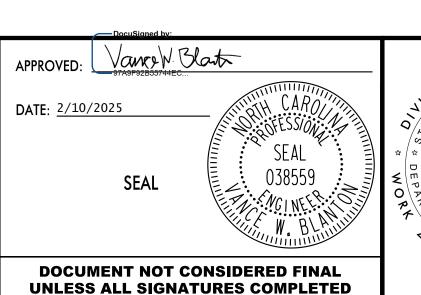
PAVEMENT MARKING LINES

TEMPORARY PAVEMENT MARKING

P1 - PAINT (4" WHITE, 2X) EDGELINE P3 - PAINT (4" WHITE, 2X) 10' WHITE SKIP P4 - PAINT (4" WHITE, 2X) 3'-9"/SP MINISKIP P5 - PAINT (4" WHITE, 2X) 2'-6"/SP MINISKIP P10 - PAINT (4" YELLOW, 2X) EDGELINE P14 - PAINT (4" YELLOW, 2X) 2'-6"/SP MINISKIP P40 - PAINT (8" WHITE, 2X) GORELINE

PAVEMENT MARKING SYMBOLS

P72 - PAINT 2X (STRAIGHT ARROW) P77 - PAINT 2X (U-TURN ARROW)





ROADWAY STANDARD DRAWINGS & LEGEND

TEMPORARY SIGNING

FLAGGER

PORTABLE SIGN

STATIONARY SIGN

STATIONARY OR PORTABLE SIGN

SIGNALS

EXISTING PROPOSED T T TEMPORARY PORTABLE P TEMPORARY P TEMPORARY T TEMPOR T TEMPORARY T TEMPORARY T TEMPORARY T TEMPORARY T TEMPORARY T TE

PAVEMENT MARKINGS

——EXISTING LINES ——TEMPORARY LINES

PAVEMENT MARKERS

CRYSTAL/CRYSTAL

CRYSTAL/RED

YELLOW/YELLOW

PAVEMENT MARKING SYMBOLS

PAVEMENT MARKING SYMBOLS

PROJ. REFERENCE NO SHEET NO. TMP-1B R-5930B

MANAGEMENT STRATEGIES

PROPOSED IMPROVEMENTS ALONG US 15-501 WILL BE CONSTRUCTED WHILE MAINTAINING TRAFFIC AND USING TEMPORARY TRAFFIC PATTERNS AND TEMPORARY LANE CLOSURES. THE PROPOSED STORM DRAINAGE SYSTEM CONSTRUCTION WILL BE SEQUENCED AND REQUIRE TEMPORARY CONNECTIONS, ADJUSTMENT OF BOX ELEVATIONS, AND TEMPORARY ROAD CLOSURES.

PROPOSED NEW LOCATION OF CHATHAM PARK WAY, CULVERTS, AND RETAINING WALLS WILL BE CONSTRUCTED AWAY FROM TRAFFIC USING TEMPORARY ROAD CLOSURES.

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

US 64 RAMPS US 15-501 -Y9MONDAY THRU FRIDAY 6:00 AM TO 9:00 AM AND 4:00 PM TO 7:00 PM

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

ROAD NAME

US 64 RAMPS US 15-501

TIME RESTRICTIONS (CONT.)

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 6:00 A.M. DECEMBER 31st TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.
- 3. FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
- 4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
- 5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 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 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

- 6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.
- 7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 7:00 P.M. MONDAY.
- 8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
- C) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME

DAY AND TIME RESTRICTIONS

ANYTIME

US 64 RAMPS **US 15-501**

D) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- E) 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.
- F) 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.
- G) 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.

- H) 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.
- I) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

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.

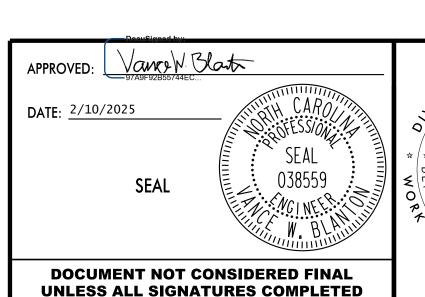
BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

K) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 500 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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





TRANSPORTATION **OPERATIONS** PLAN

PROJ. REFERENCE NO. SHEET NO. R-5930B TMP-1C

GENERAL NOTES (CONT.)

SIGNING

- M) 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.
- N) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- O) 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

- P) 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.
- Q) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- R) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES
 PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN
 UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME
ALL ROADS

<u>MARKING</u> PAINT MARKER NONE

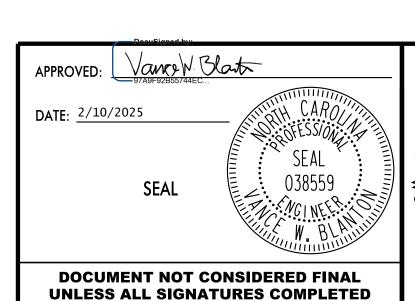
- T) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS.
 PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL
 APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.
- U) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- V) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS BY THE END OF EACH DAY'S OPERATION.

LOCAL NOTES

W) MAINTAIN -Y9- ACCESS ACROSS -L- CHATHAM PARK WAY CONSTRUCTION AT ALL TIMES

MISCELLANEOUS

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





TRANSPORTATION
OPERATIONS
PLAN

2/6/2024

AREA A

WHILE MAINTAINING TRAFFIC IN THE EXISTING PATTERN AND USING RSD 1101.04 FOR SHOULDER CLOSURES AND RSD 1101.02 FOR LANE CLOSURES AS NECESSARY, PERFORM THE FOLLOWING:

STEP 1:

INSTALL ADVANCE WARNING SIGNS IN ACCORDANCE WITH RSD 1101.01

STEP 2:

CONSTRUCT IMPROVEMENTS ALONG -Y11- US 15-501 AS SHOWN ON SHEETS TMP-4 THRU TMP-5 INCLUDING UTILITY RELOCATIONS UP TO BUT NOT INCLUDING THE FINAL ASPHALT SURFACE COURSE.

NOTES:

- PROVIDE WEDGING AS NEEDED TO ENSURE SMOOTH TRANSITIONS AND MAINTAIN POSITIVE DRAINAGE

PHASE 2

AREA A

WHILE MAINTAINING TRAFFIC USING RSD 1101.04 FOR SHOULDER CLOSURES AND RSD 1101.02 FOR LANE CLOSURES AS NECESSARY, PERFORM THE FOLLOWING AS SHOWN ON SHEETS TMP-6 THRU TMP-7:

STEP 1:

PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) AND REMOVE CONFLICTING MARKINGS. INSTALL TEMPORARY AND PERMANANT SIGNING AND TRAFFIC CONTROL DEVICES.

STEP 2:

CONSTRUCT MONOLITHIC ISLANDS, RAISED MEDIAN, AND REMAINING CHANNELIZING **ISLANDS ALONG -Y11- US 15-501.**

STEP 3:

INSTALL FINAL -Y11- US 15-501 SIGNAL (REFER TO SIGNAL PLANS) AND PLACE FINAL ASPHALT SURFACE COURSE AND PERMANENT PAVEMENT MARKINGS.

STEP 4:

AFTER PHASE 2, STEPS 1-3 FOR BOTH AREA A AND AREA B ARE COMPLETED, REMOVE ALL TRAFFIC CONTROL DEVICES AND OPEN ALL LANES TO TRAFFIC.

NOTES:

- PROVIDE WEDGING AS NEEDED TO ENSURE SMOOTH TRANSITIONS AND MAINTAIN POSITIVE DRAINAGE
- DO NOT PERFORM STEP 4 BEFORE R-5930B IS APPROPRIATELY TIED INTO R-5930A, AND R-5930A IS SUBSTANTIALLY COMPLETED AND OPEN TO TRAFFIC

AREA B

AREA B

WHILE MAINTAINING TRAFFIC IN THE EXISTING PATTERN AND USING RSD 1101.04 FOR SHOULDER CLOSURES AND RSD 1101.02 FOR LANE CLOSURES AS NECESSARY, **PERFORM THE FOLLOWING:**

STEP 1:

INSTALL ADVANCE WARNING SIGNS IN ACCORDANCE WITH RSD 1101.01

NOTE: MAINTAIN -Y9- ACCESS ACROSS -L- CHATHAM PARK WAY DURING CONSTRUCTION. REFER TO GENERAL NOTES A THRU D AND SHEET TMP-8 FOR ADDITIONAL INFORMATION.

STEP 2:

AWAY FROM TRAFFIC BEGIN CONSTRUCTION OF NEW LOCATION -L- CHATHAM PARK WAY INCLUDING THE PROPOSED CULVERTS AND ASSOCIATED RETAINING WALLS AS SHOWN ON SHEET TMP-3.

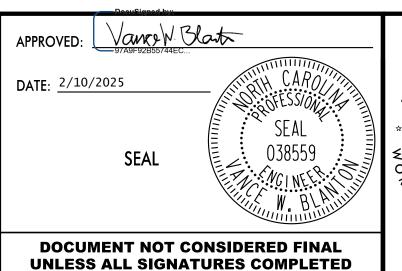
STEP 3:

INSTALL FINAL SIGNALS AT THE US 64 RAMPS AND GRANT DRIVE (REFER TO SIGNAL PLANS). PLACE FINAL ASPHALT SURFACE COURSE AND PERMANENT PAVEMENT MARKINGS.

STEP 4:

AFTER PHASE 2, STEPS 1-3 FOR BOTH AREA A AND AREA B ARE COMPLETED, REMOVE ALL TRAFFIC CONTROL DEVICES AND OPEN ALL LANES TO TRAFFIC.

NOTE: DO NOT PERFORM STEP 4 BEFORE R-5930B IS APPROPRIATELY TIED INTO R-5930A, AND R-5930A IS SUBSTANTIALLY COMPLETED AND OPEN TO TRAFFIC





PHASING NOTES

