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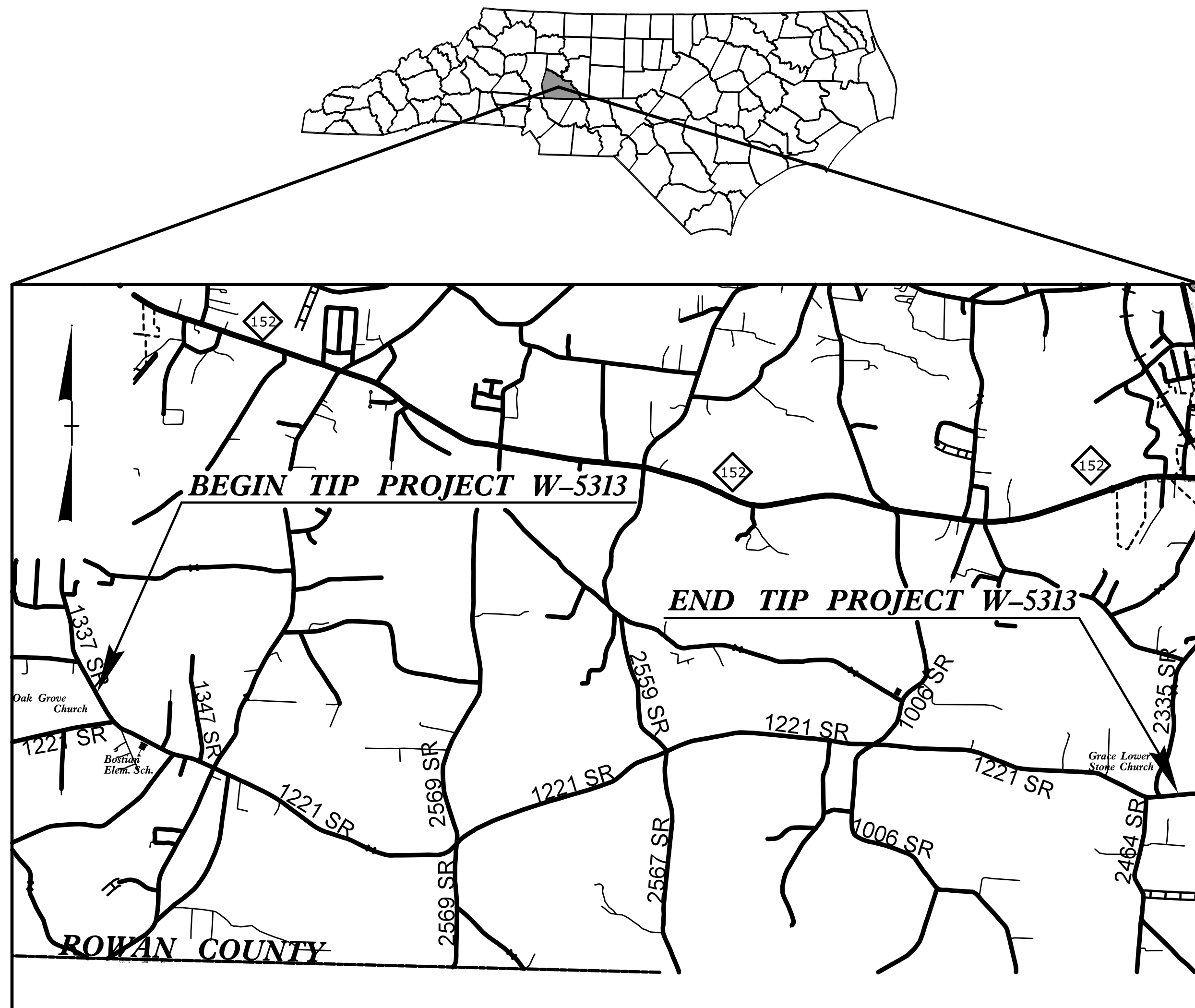
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

ROWAN COUNTY



**LOCATION: SR 1221 (OLD BEATTY FORD ROAD)
FROM SR 1337 (LENTZ ROAD) TO
SR 2335 (LOWER STONE CHURCH ROAD)**

**TYPE OF WORK: WIDENING, RESURFACING, DRAINAGE, SIGNING
AND CULVERTS**

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| TMP-15 - TMP-16 | TEMPORARY TRAFFIC CONTROL PHASE I, STEPS 18 & 19 DETAILS |

SHEET NO.
TMP-1

W-5313

TIP PROJECT:

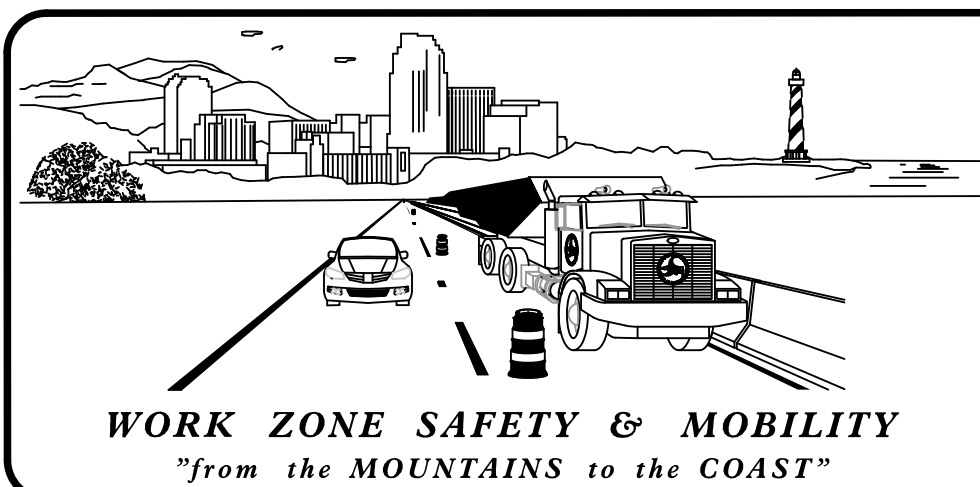
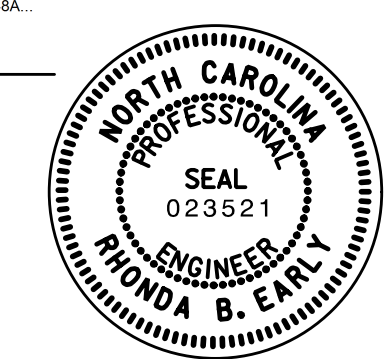
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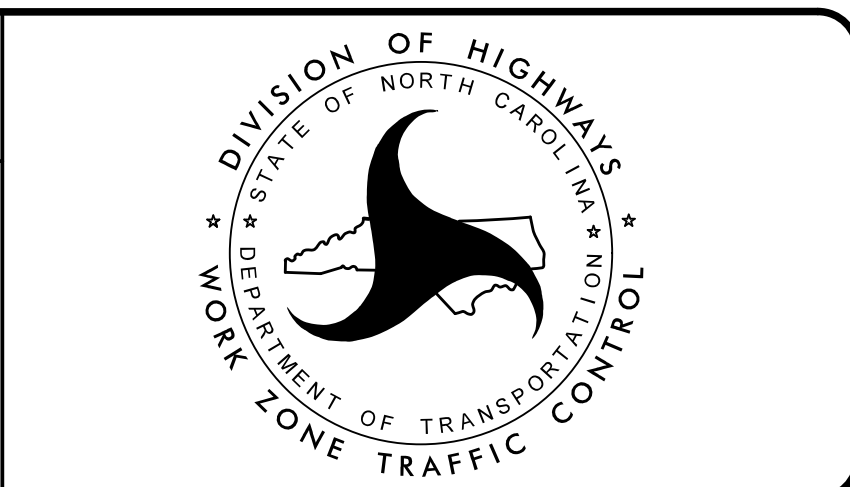
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APPROVED: Rhonda B. Early
DATE: 3/6/2017

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| N.C.D.O.T. WORK ZONE TRAFFIC CONTROL 1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561 750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY) PHONE: (919) 773-2800 FAX: (919) 771-2745 | |
| VACANT | STATE TRAFFIC MANAGEMENT ENGINEER |
| VACANT | TRAFFIC CONTROL PROJECT ENGINEER |
| SAMUEL D. COLEMAN, P.E. | TRAFFIC CONTROL PROJECT DESIGN ENGINEER |
| ALLA LYUDMIRSKAYA | TRAFFIC CONTROL DESIGN ENGINEER |



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ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 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 |
| 1130.01 | DRUMS |
| 1135.01 | CONES |
| 1145.01 | BARRICADES |
| 1150.01 | FLAGGING DEVICES |
| 1180.01 | SKINNY - DRUM |
| 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 |
| 1205.09 | PAVEMENT MARKINGS - PAINTED ISLANDS |
| 1205.10 | PAVEMENT MARKINGS - SCHOOL AREAS |
| 1250.01 | RAISED PAVEMENT MARKERS - INSTALLATION SPACING |
| 1251.01 | RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY) |
| 1261.01 | GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING |
| 1261.02 | GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING |
| 1262.01 | GUARDRAIL END DELINEATION |

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- WORK AREA
- REMOVAL
- INCIDENTAL STONE
- WEDGE / WIDEN (USING FLAGGERS)
- TEMPORARY PAVEMENT

TRAFFIC CONTROL DEVICES

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

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

PAVEMENT MARKERS

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

TEMPORARY PAVEMENT MARKING

| SYMBOL | DESCRIPTION | PAY ITEM |
|--|------------------------------|--------------|
| <u>PAVEMENT MARKING LINES</u> | | |
| | | PAINT (4") |
| P8 | 2 FT/ 6 FT SP WHITE MINISKIP | |
| PA | WHITE EDGELINE | |
| PD | 3 FT/ 9 FT WHITE MINISKIP | |
| PE | WHITE LANE LINE | |
| PI | YELLOW DOUBLE CENTER LINE | |
| | | PAINT (24") |
| P2 | WHITE STOP BAR | |
| <u>PAVEMENT MARKING SYMBOLS & CHARACTERS</u> | | |
| | | PAINT SYMBOL |
| QB | RIGHT TURN ARROW | |

NOTE: FOR EACH PAINT PAVEMENT MARKING ITEM, REFER TO GENERAL NOTES FOR NUMBER OF APPLICATIONS.

PAVEMENT MARKERS

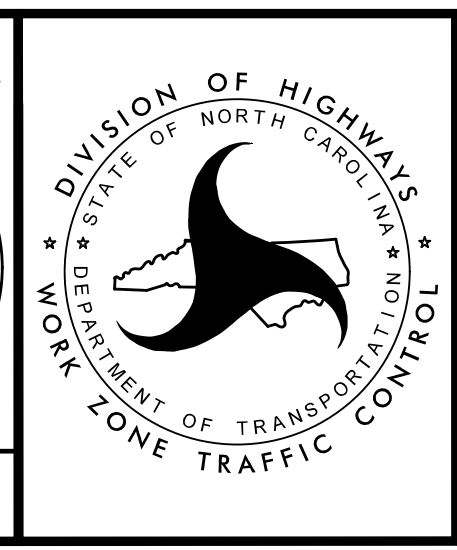
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|----|-----------------|------------------|
| MH | YELLOW & YELLOW | TEMPORARY RAISED |
|----|-----------------|------------------|

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APPROVED:
DATE: 5/3/2016

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ROADWAY STANDARD DRAWINGS & LEGENDS

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MANAGEMENT STRATEGIES

THE OBJECTIVE OF THIS PROJECT IS TO COMPLETE IMPROVEMENTS TO OLD BEATTY FORD ROAD (-L-) WITH THE FINAL LAYER OF SURFACE COURSE PLACED ALONG THE ENTIRE PROJECT IN THE FINAL STEPS.

PHASE I BEGINS BY COMPLETING THE SECTION FROM BEGIN PROJECT TO -Y3-/-Y4- INTERSECTION USING FLAGGERS WHILE THE BOSTIAN SCHOOL IS NOT IN SESSION. AT THIS TIME, ALL TRUCKS ARE PLACED IN AN OFF-SITE DETOUR (USING NC 152 AS TRUCK DETOUR ROUTE) AND CONSTRUCTION CONTINUES FROM WEST TO EAST USING FLAGGERS AND A SERIES OF OFF-SITE DETOURS / ROAD CLOSURES TO COMPLETE INTERSECTION IMPROVEMENTS, CULVERT REPLACEMENTS, AND VERTICAL &/OR HORIZONTAL ALIGNMENT CHANGES. ALL WORK (EXCEPT PLACEMENT OF FINAL SURFACE COURSE) MAY BE COMPLETED IN PHASE I OR MINOR WEDGING AND WIDENING MAY BE COMPLETED IN PHASE II IF DESIRED.

PHASE II WORK USES COMPLETES ANY REMAINING WORK ALONG OLD BEATTY FORD RD (-L-) USING A COMBINATION OF ROAD CLOSURES AND FLAGGERS.

UPON COMPLETION OF -L- AND Y-LINE IMPROVEMENTS (INCLUDING REMOVAL OF ABANDONED AND/OR TEMPORARY PAVEMENT), THE PLACEMENT OF FINAL SURFACE COURSE, AND FINAL PAVEMENT MARKING / MARKERS ARE TO BE COMPLETED. THEN, TRUCK DETOUR ROUTE IS REMOVED.

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:

| <u>ROAD NAME</u> | <u>DAY AND TIME RESTRICTIONS</u> |
|--------------------------|--|
| OLD BEATTY FORD RD (-L-) | MONDAY THRU FRIDAY 6:00 AM - 8:00 AM & 2:00 PM - 4:00 PM |

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

| <u>ROAD NAME</u> |
|--------------------------|
| OLD BEATTY FORD RD (-L-) |
| 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 4:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN UNTIL 4:00 P.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 4:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 4:00 P.M. TUESDAY.

GENERAL NOTES

5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 4:00 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 4:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 4:00 P.M. TUESDAY.

7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 4:00 P.M. MONDAY.

8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 4:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

C) 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 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 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.

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 REMAINS 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) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON -L- (SR 1221).

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' IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

L) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

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) 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.

O) 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.

P) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

Q) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 500' IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

R) 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 OPENED TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES), AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

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

T) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES (DRUMS) PERPENDICULAR TO THE EDGE OF THE TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

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

| <u>ROAD NAME</u> | <u>MARKING</u> | <u>MARKER</u> |
|------------------|----------------|---------------|
| ALL ROADS | PAINT | RAISED |

V) 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.

W) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

X) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

Y) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION. PLACE DRUMS TO DELINEATE ANY PROPOSED MONOLITHIC ISLANDS BEFORE INSTALLATION.

MISCELLANEOUS

Z) PROVIDE AND OPERATE 4 ADDITIONAL CMS'S TO BE USED AS DIRECTED BY THE ENGINEER.

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

BB) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAYS TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION, AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) 500 FT AND 1000 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

CC) 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.

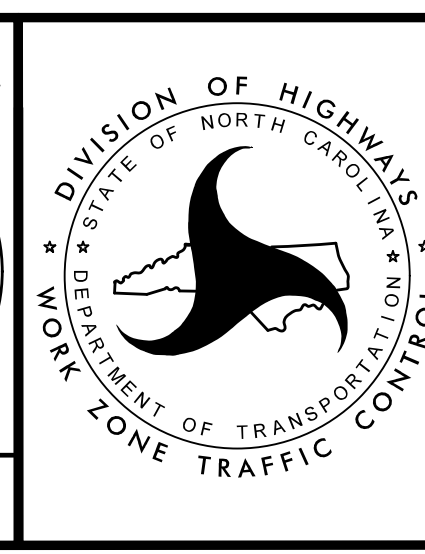
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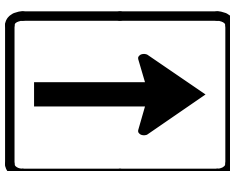
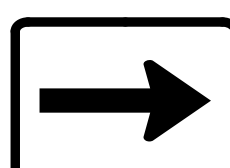
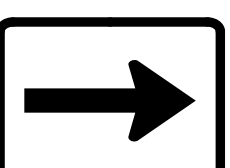
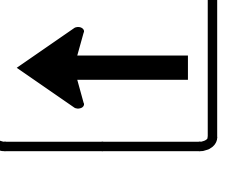
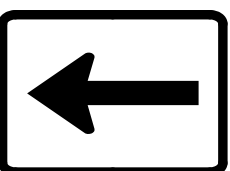
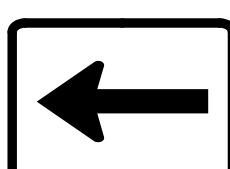
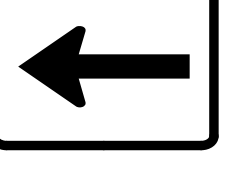
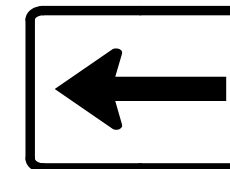
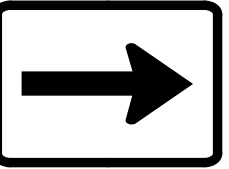
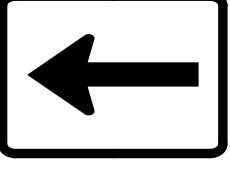
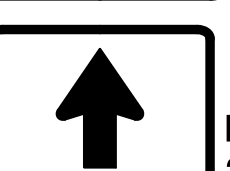
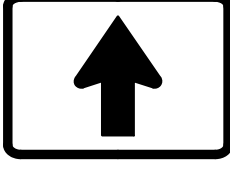
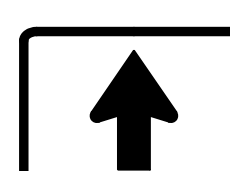
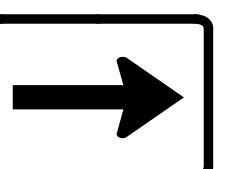
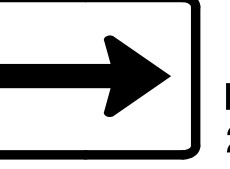
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DATE: 3/6/2017

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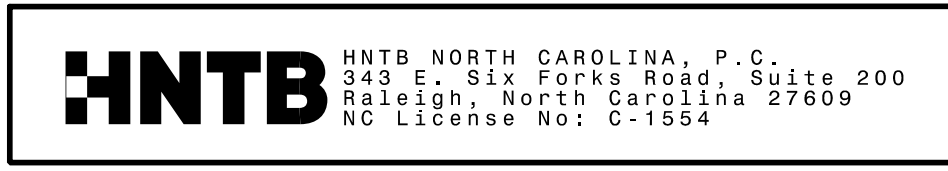
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MANAGEMENT STRATEGIES & GENERAL NOTES

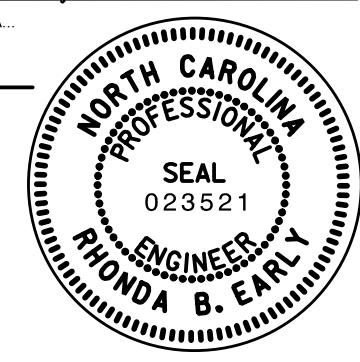
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|--|--|---|---|--|---|
| <p>① TRUCK M4-4 24" X 12" OLD BEATTY FORD ROAD SP-1 54" X 30" DETOUR M4-8 24" X 12"  M6-1 21" X 15"</p> | <p>④ OLD BEATTY FORD ROAD SP-1 54" X 30" DETOUR M4-8 24" X 12"  M6-1 21" X 15"</p> | <p>⑦ SHUPING MILL ROAD SP-2 54" X 30" DETOUR M4-8 24" X 12"  M6-1 21" X 15"</p> | <p>⑩ SIGN ASSEMBLY NO LONGER NEEDED</p> | <p>⑬ TO M4-5 24" X 12" WEST M3-4 24" X 12" OLD BEATTY FORD ROAD SP-1 54" X 30"  M6-1 L 21" X 15"</p> | <p>⑯ TO M4-5 24" X 12" EAST M3-2 24" X 12" OLD BEATTY FORD ROAD SP-1 54" X 30"  M6-1 L 21" X 15"</p> |
| <p>② TRUCK M4-4 24" X 12" OLD BEATTY FORD ROAD SP-1 54" X 30" DETOUR M4-8 24" X 12"  M6-1 L 21" X 15"</p> | <p>⑤ OLD BEATTY FORD ROAD SP-1 54" X 30" DETOUR M4-8 24" X 12"  M6-1 L 21" X 15"</p> | <p>⑧ TO M4-5 24" X 12" NORTH M3-1 24" X 12" SHUPING MILL ROAD SP-2 54" X 30"  M6-1 L 21" X 15"</p> | <p>⑪ TO M4-5 24" X 12" WEST M3-4 24" X 12" OLD BEATTY FORD ROAD SP-1 54" X 30"  M6-1 21" X 15"</p> | <p>⑭ END DETOUR M4-8 A 24" X 18"</p> | <p>⑰ SHUPING MILL ROAD SP-2 54" X 30" DETOUR M4-8 24" X 12"  M6-1 L 21" X 15"</p> |
| <p>③ TRUCK M4-4 24" X 12" OLD BEATTY FORD ROAD SP-1 54" X 30" DETOUR M4-8 24" X 12"  M6-3 21" X 15"</p> | <p>⑥ OLD BEATTY FORD ROAD SP-1 54" X 30" DETOUR M4-8 24" X 12"  M6-3 21" X 15"</p> | <p>⑨ TO M4-5 24" X 12" SOUTH M3-3 24" X 12" SHUPING MILL ROAD SP-2 54" X 30"  M6-3 21" X 15"</p> | <p>⑫ TRUCK M4-4 24" X 12" OLD BEATTY FORD ROAD SP-1 54" X 30" END DETOUR M4-8 A 24" X 18"</p> | <p>⑮ TRUCK M4-4 24" X 12" WEST M3-4 24" X 12" OLD BEATTY FORD ROAD SP-1 54" X 30" DETOUR M4-8 24" X 12"  M6-1 21" X 15"</p> | <p>⑱ EAST M3-2 24" X 12" OLD BEATTY FORD ROAD SP-1 54" X 30" DETOUR M4-8 24" X 12"  M6-1 21" X 15"</p> |

2:57:20 PM
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HNTB



APPROVED: *Rhonda B. Early*
F34CAFAC08F48A
DATE: 3/6/2017

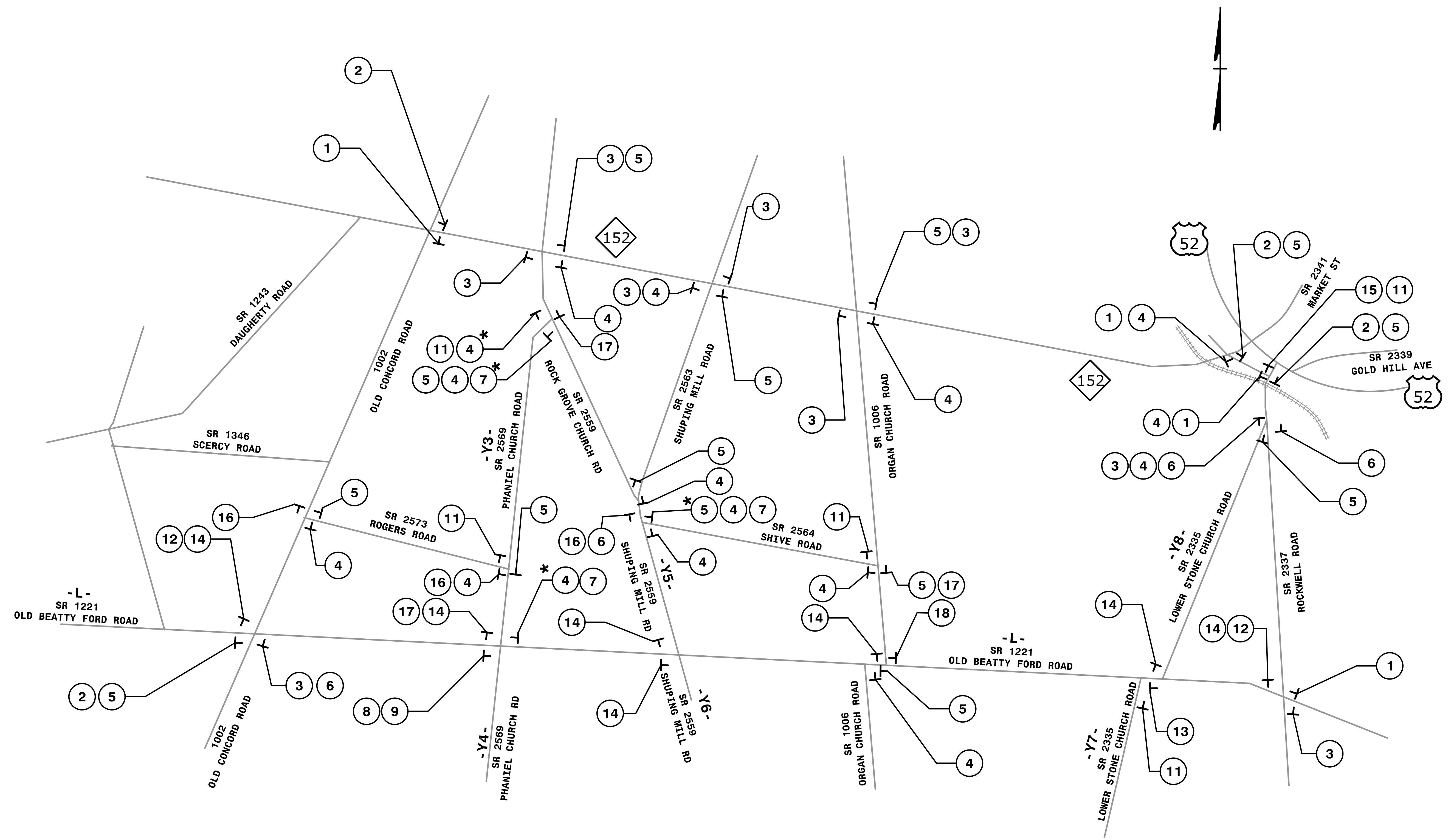
SEAL



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



DETOUR SIGNS



REFER TO SHEET TMP-2 FOR SIGN KEY.

* DENOTES SIGNS THAT MAY BE MINIMIZED IN NUMBER BY FLIPPING ARROW PANELS OR SWAPPING ROAD NAME OR EAST & WEST SIGNS IF APPROVED BY THE ENGINEER.

11/5/02 AM
W-5313_fe_02a_detour_0_MASTER.dgn
HNTB

HNTB HNTB NORTH CAROLINA, P.C.
343 E Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

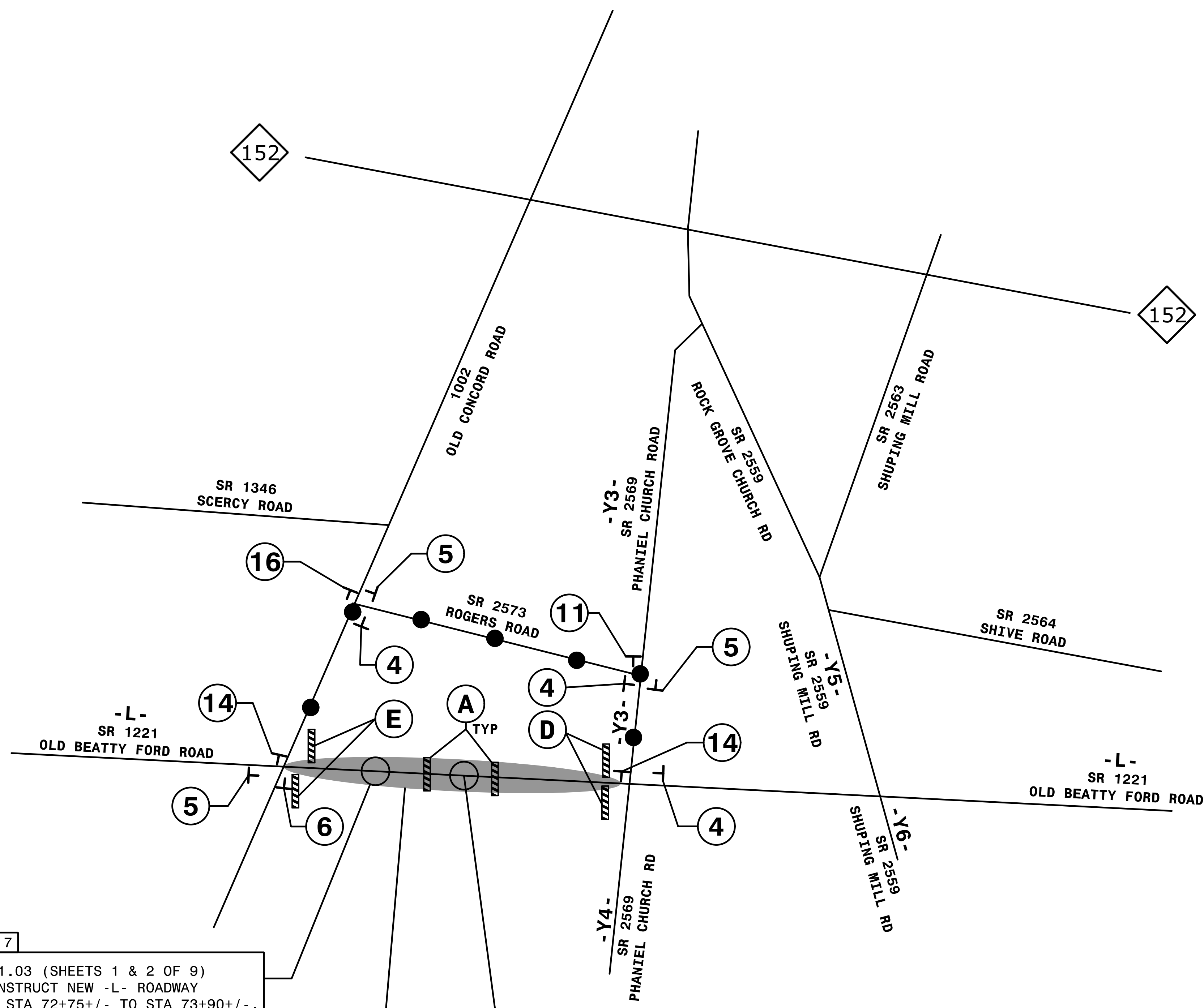
APPROVED: *Rhonda B. Early*
DATE: 11/30/2016

SEAL

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



**OVERALL DETOUR
SIGN DETAIL**



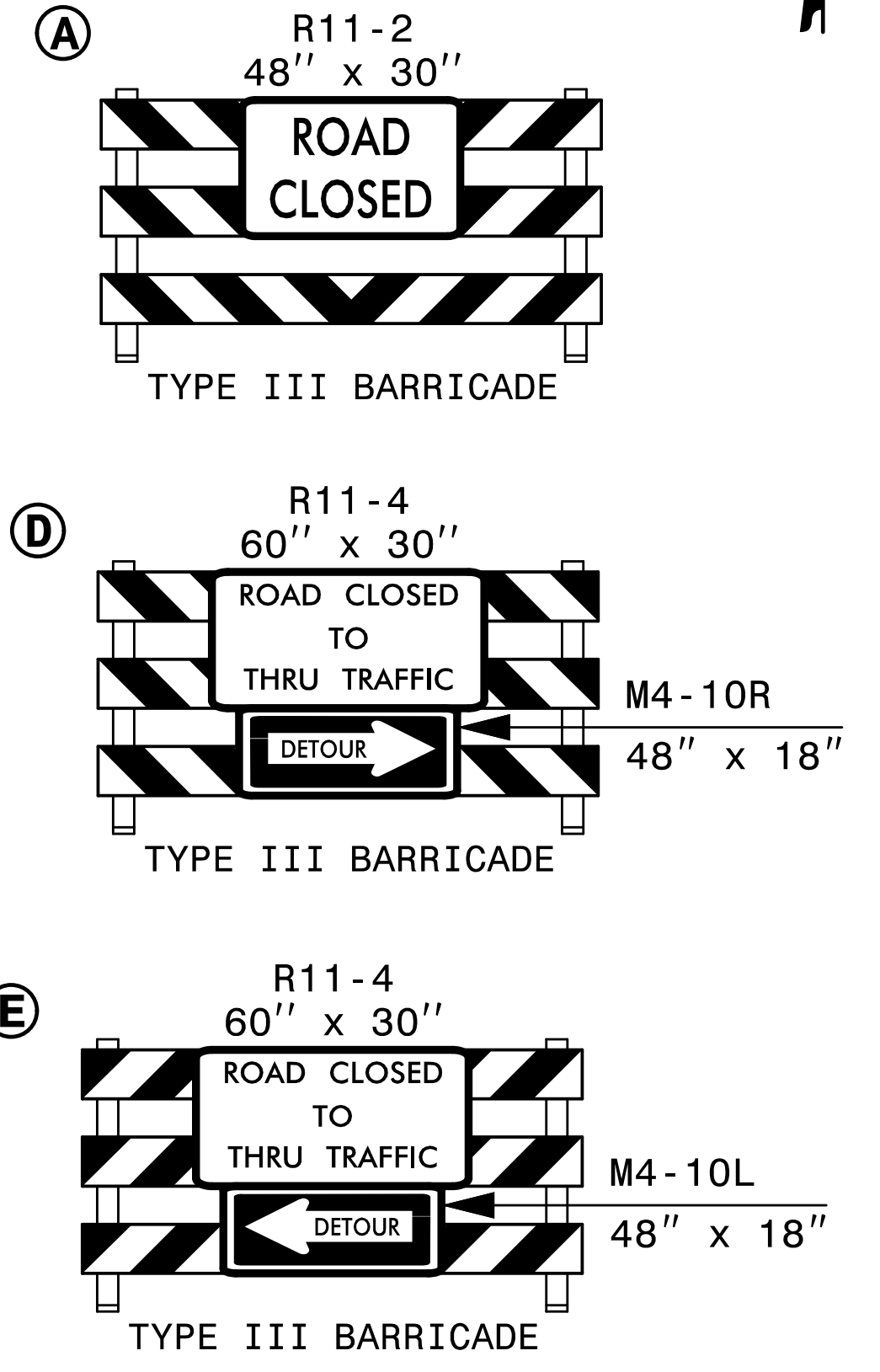
PHASE I, STEP 7
 USING RSD 1101.03 (SHEETS 1 & 2 OF 9)
 AS NEEDED, CONSTRUCT NEW -L- ROADWAY
 SECTIONS FROM STA 72+75+/- TO STA 73+90+/-.

PHASE II, STEP 3
 USING RSD 1101.02 (SHEET 1 OF 15) AS
 NEEDED, CONSTRUCT PROPOSED IMPROVEMENTS
 TO -L- FROM OLD CONCORD RD TO -Y3- / -Y4-.

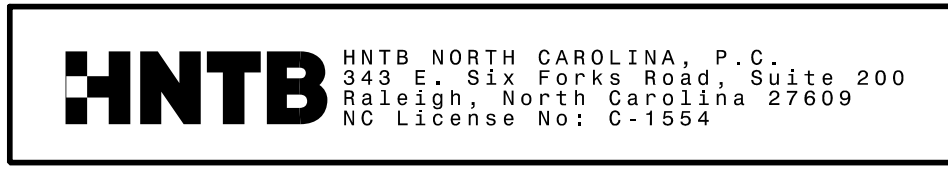
PHASE I, STEP 7
 USING RSD 1101.03 (SHEET 1 OF 9),
 INSTALL 54" RCP AT STA 128+16+/-.

REFER TO RSD 1101.03 (SHEETS 1 & 2 OF 9)
 FOR ADDITIONAL SIGNS & DEVICES.

REFER TO SHEET TMP-2 FOR SIGN KEY.



I:\5408_AM
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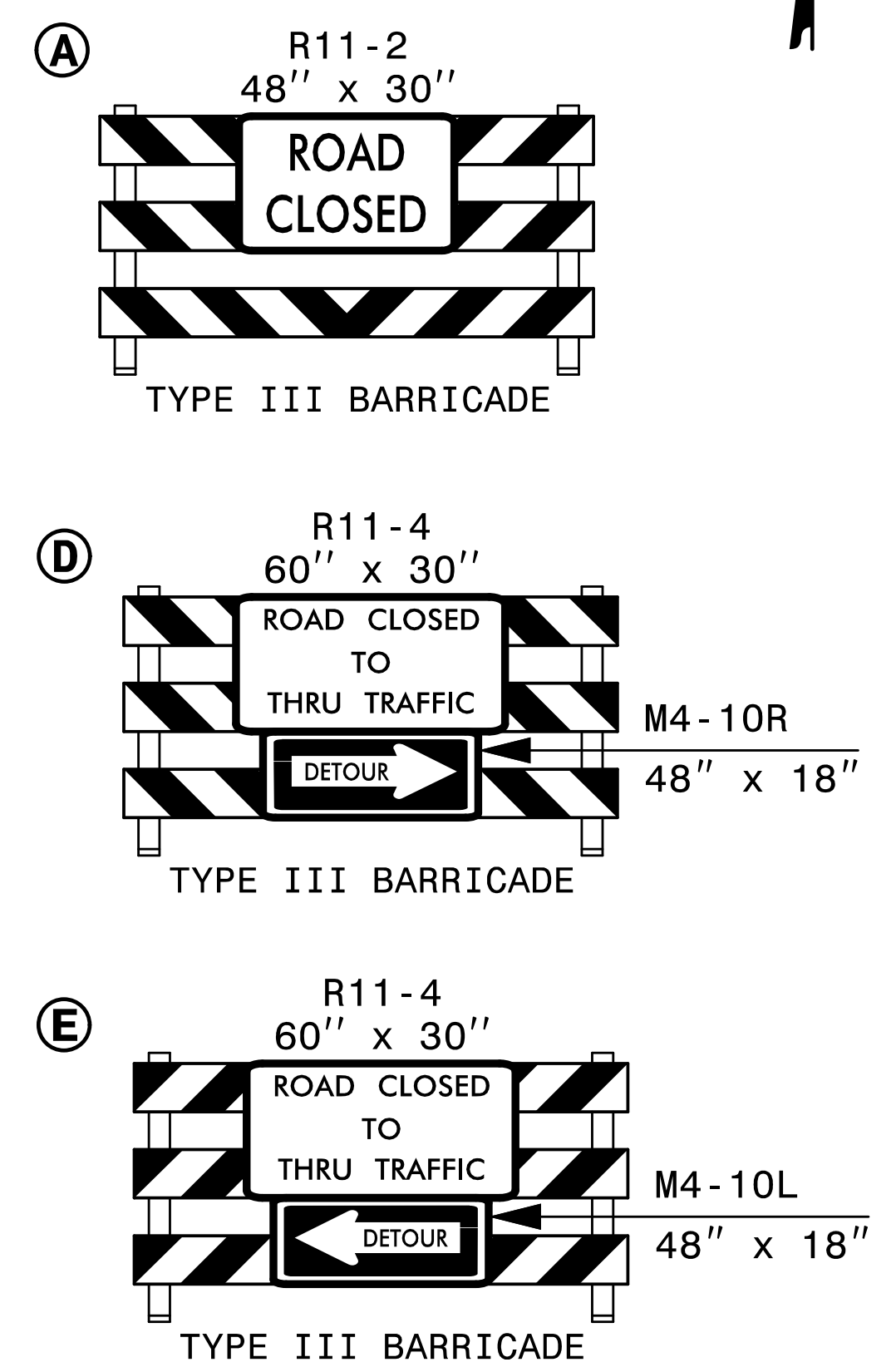
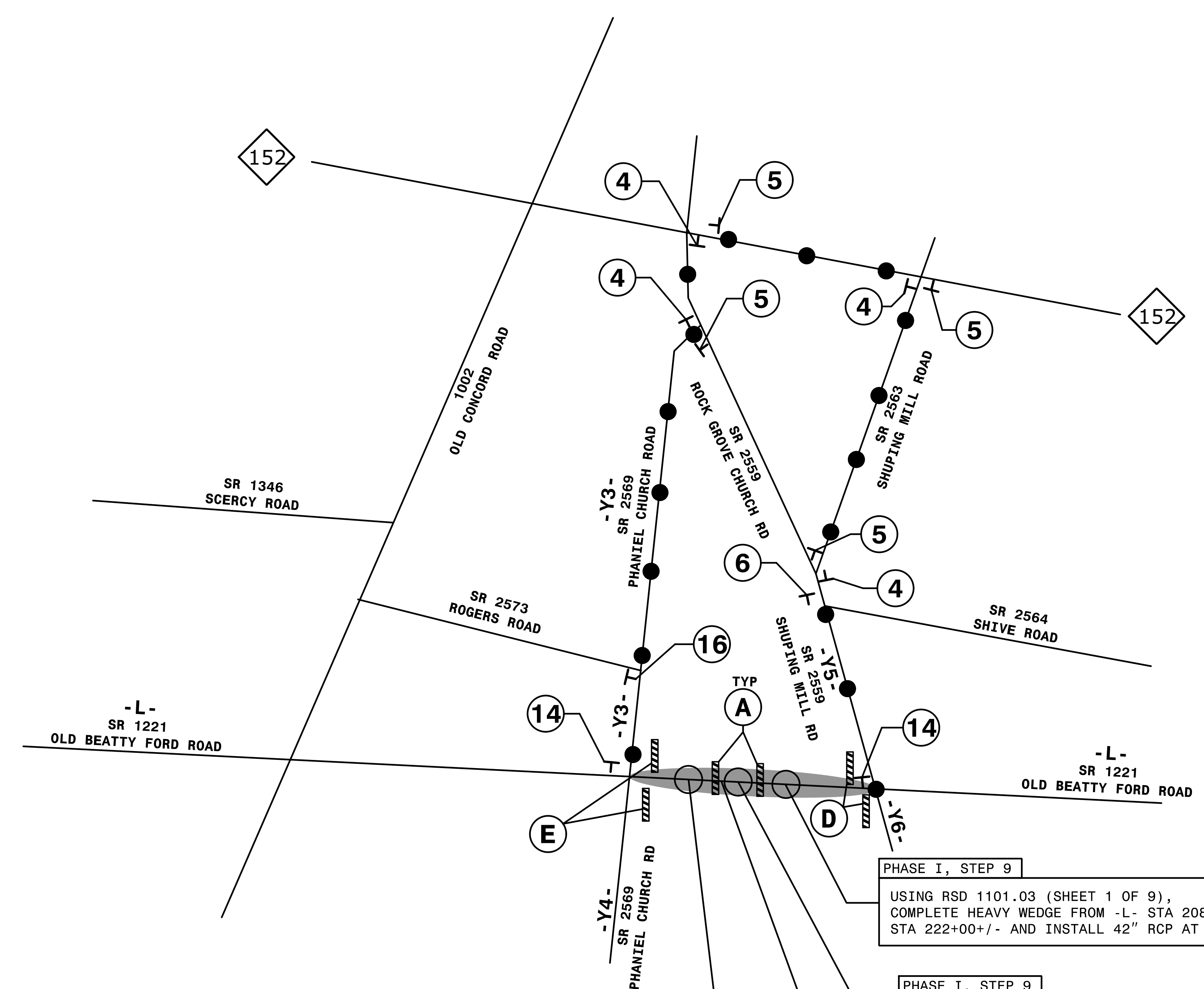


APPROVED: *Rhonda B. Early*
 DATE: 11/30/2016
 SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 023521
 RHONDA B. EARLY



OFFSITE DETOUR #2
 -L- FROM OLD CONCORD RD
 TO -Y3- / -Y4-

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 UNLESS ALL SIGNATURES COMPLETED



PHASE I, STEP 9
 USING RSD 1101.03 (SHEET 1 OF 9),
 COMPLETE HEAVY WEDGE FROM -L- STA 165+00+/- TO STA
 187+00+/- AND INSTALL 9'X8' RCBC AT STA 179+65+/-.

PHASE I, STEP 9
 USING RSD 1101.03 (SHEET 1 OF 9),
 COMPLETE HEAVY WEDGE FROM -L- STA 208+80+/- TO
 STA 222+00+/- AND INSTALL 42" RCP AT STA 208+88+/-.

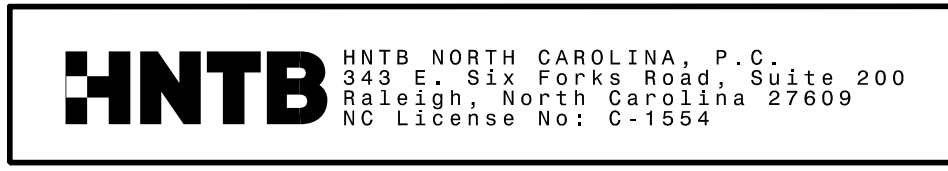
PHASE I, STEP 9
 USING RSD 1101.03 (SHEET 1 OF 9),
 INSTALL 60" RCP AT STA 192+44+/-.

REFER TO RSD 1101.03 (SHEETS 1 & 2 OF 9)
 FOR ADDITIONAL SIGNS & DEVICES.

PHASE II, STEP 2
 USING RSD 1101.02 (SHEET 1 OF 15) AS NEEDED,
 COMPLETE WEDGING AND WIDENING OF -L- FROM
 -Y3- TO -Y6-.

REFER TO SHEET TMP-2 FOR SIGN KEY.

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 \$\$\$USERNAME\$\$\$

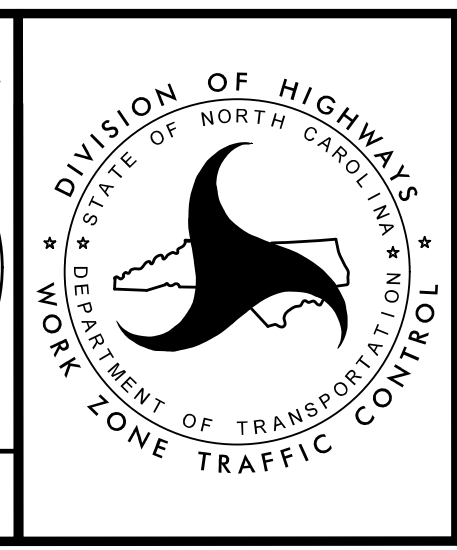


APPROVED: *Rhonda B. Early*
F34CAF5ACBF48A

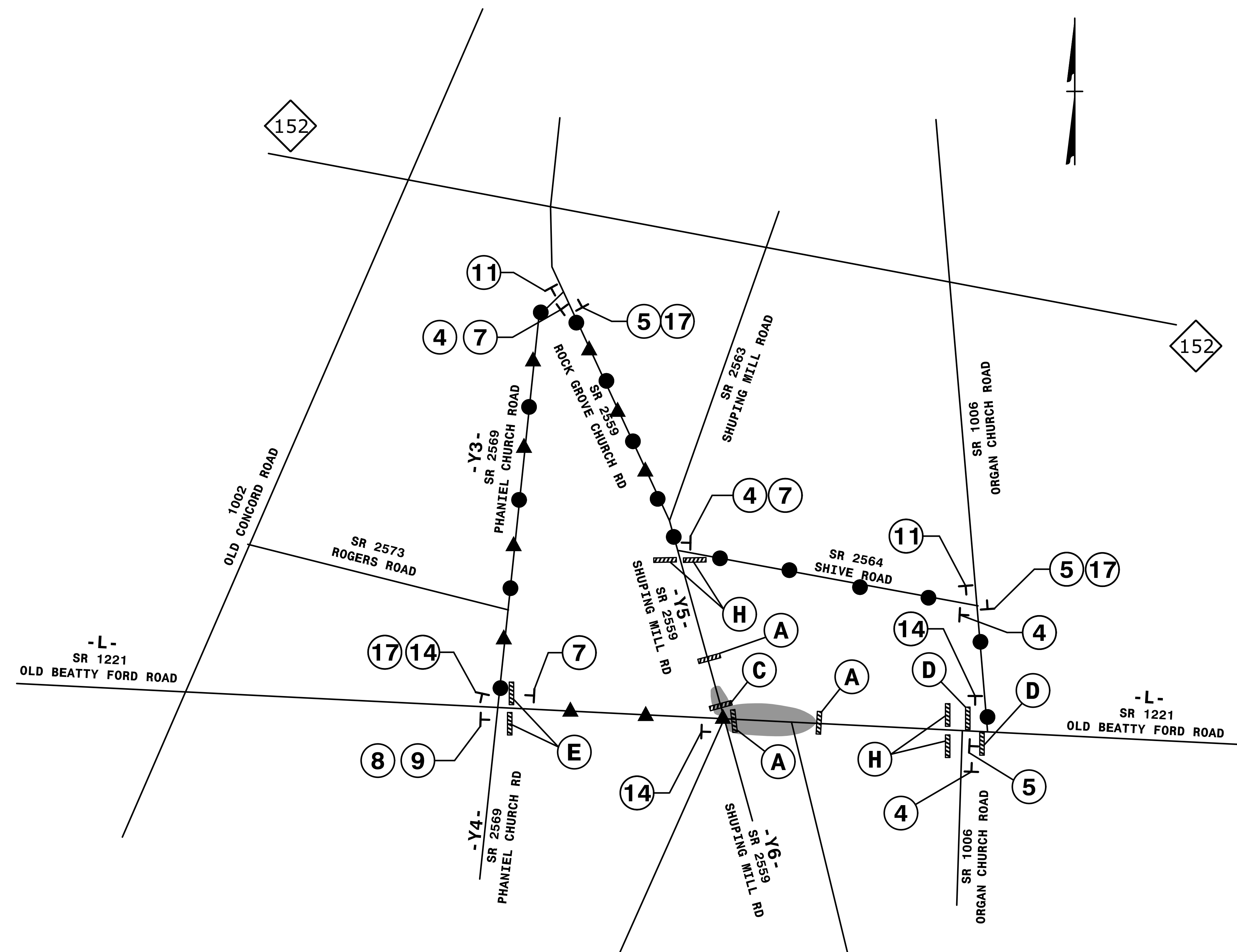
DATE: 5/3/2016

SEAL

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



OFFSITE DETOUR #3
 -L- FROM -Y3-/-Y4-
 TO -Y5-/-Y6-



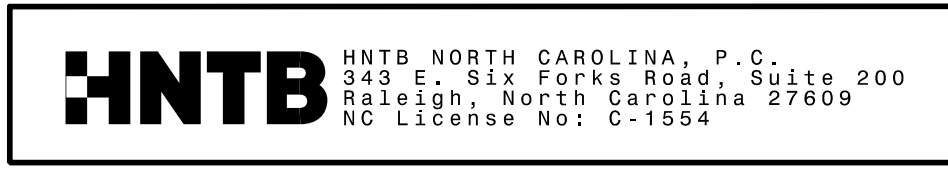
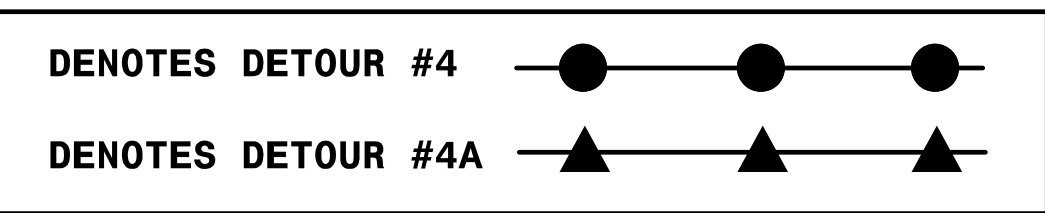
USING FLAGGERS AS NEEDED, CONSTRUCT -Y6- & -Y5- / -Y6- INTERSECTION.
REFER TO SHEETS TMP-13 & TMP-14.

ICT
PHASE I, STEPS 12B THRU 12D
CLOSE -L- & -Y5- AND AWAY FROM TRAFFIC
CONSTRUCT -L- (FROM -Y5- TO STA 238+00 +/- AND -Y5- FROM STA 11+90 +/- TO -L-.

REFER TO SHEET TMP-2 FOR SIGN KEY.

REFER TO RSD 1101.03 (SHEETS 1 & 2 OF 9) FOR ADDITIONAL SIGNS & DEVICES.

REFRESH PAVEMENT MARKING ON SHIVE RD PRIOR TO USING AS DETOUR ROUTE. (LN-7)



APPROVED: *Rhonda B. Early*
DATE: 3/6/2017

SEAL

PROFESSIONAL ENGINEER
R. B. EARLY
023521

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

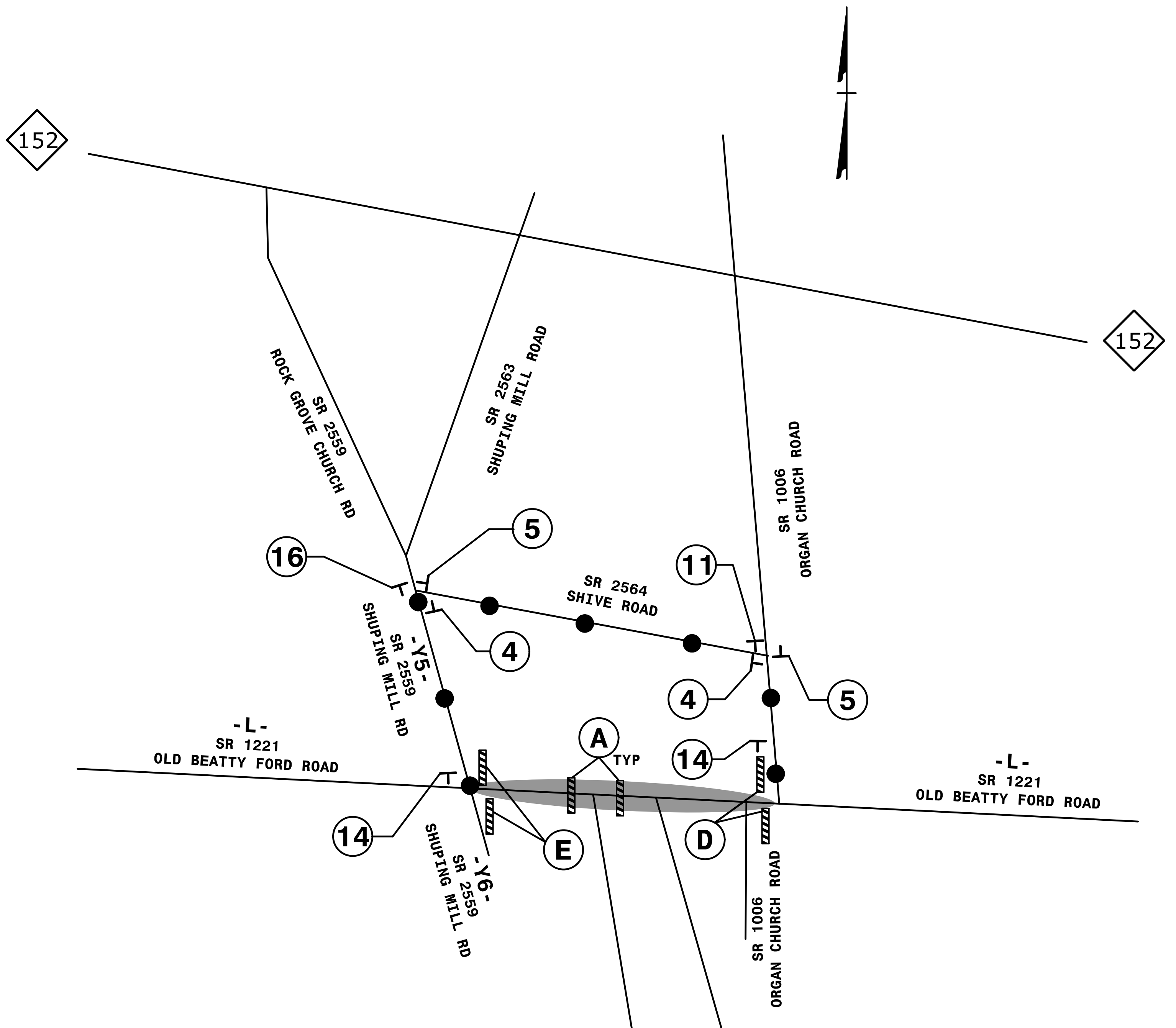
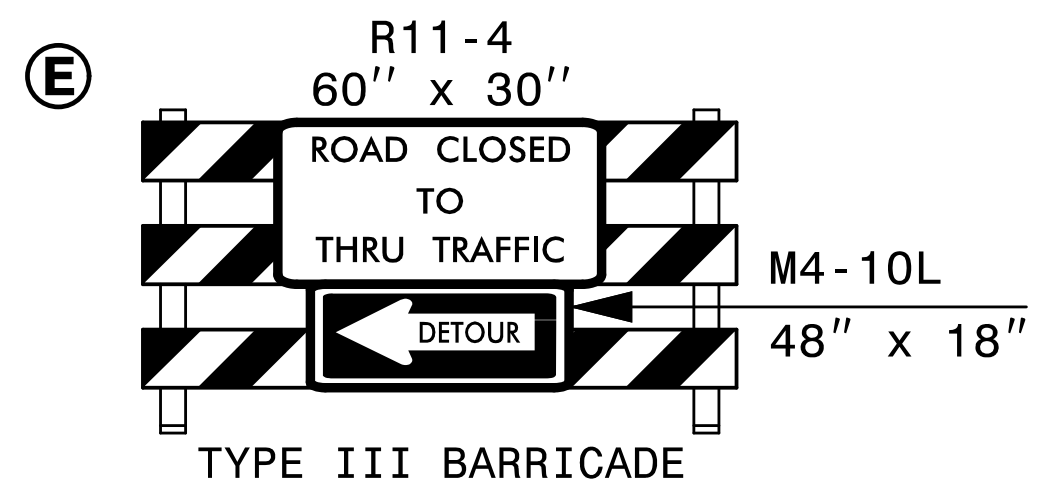
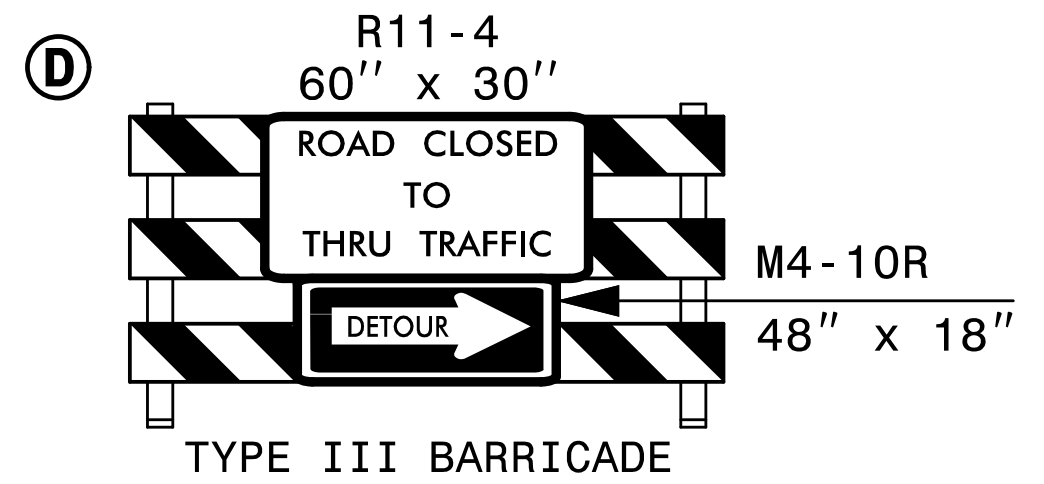
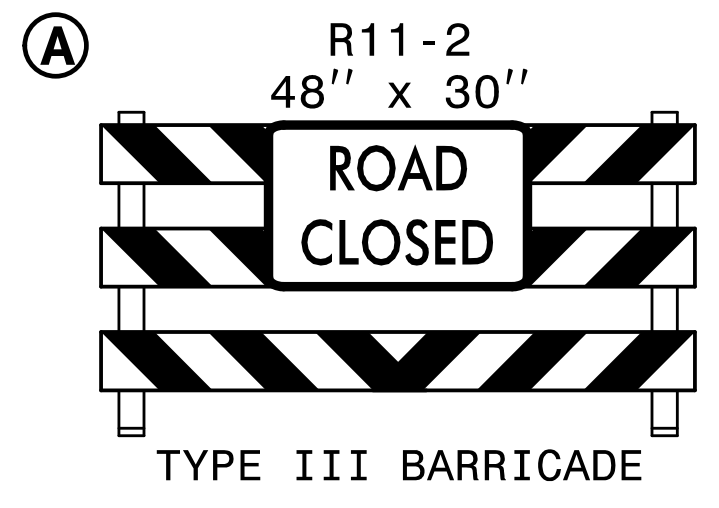


DETOUR #4
-L- FROM -Y3- / -Y4- TO ORGAN CHURCH RD

DETOUR #4A
-Y5- FROM -L- TO SHIVE RD

- A** R11-2 48" x 30" ROAD CLOSED TYPE III BARRICADE
- D** R11-4 60" x 30" ROAD CLOSED TO THRU TRAFFIC DETOUR M4-10R 48" x 18" TYPE III BARRICADE
- C** R11-2 48" x 30" ROAD CLOSED W1-6L 48" x 24" TYPE III BARRICADE
- E** R11-4 60" x 30" ROAD CLOSED TO THRU TRAFFIC DETOUR M4-10L 48" x 18" TYPE III BARRICADE
- H** R11-4 60" x 30" ROAD CLOSED TO THRU TRAFFIC TYPE III BARRICADE
- G** R11-3 60" x 30" ROAD CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY DETOUR M4-10R 48" x 18" TYPE III BARRICADE

2:57:26 PM W-5313_te_02e_detour-4_Y5_Y6.dgn HNTB



PHASE II, STEP 1

USING RSD 1101.02 (SHEET 1 OF 15) AS NEEDED, CONSTRUCT PROPOSED IMPROVEMENTS ALONG -L- FROM -Y6- TO ORGAN CHURCH RD.

PHASE I, STEP 15

USING RSD 1101.03 (SHEET 1 & 2 OF 9) AS NEEDED, CONSTRUCT NEW -L- ROADWAY, COMPLETE HEAVY WEDGING AND INSTALL 54" RCP.

- L- STA 238+00 +/- TO STA 266+00 +/-
- L- STA 276+00 +/- TO STA 295+36 +/-

REFER TO SHEET TMP-2 FOR SIGN KEY.

REFER TO RSD 1101.03 (SHEETS 1 & 2 OF 9) FOR ADDITIONAL SIGNS & DEVICES.

REFRESH PAVEMENT MARKING ON SHIVE RD PRIOR TO USING AS DETOUR ROUTE.

2:33:53 PM 2-11-16 \\w-5313-fe_02f_detour-5-L_-Y5toORG.dgn \$\$\$USERNAME\$\$\$



APPROVED: *Rhonda B. Early*

DATE: 5/3/2016

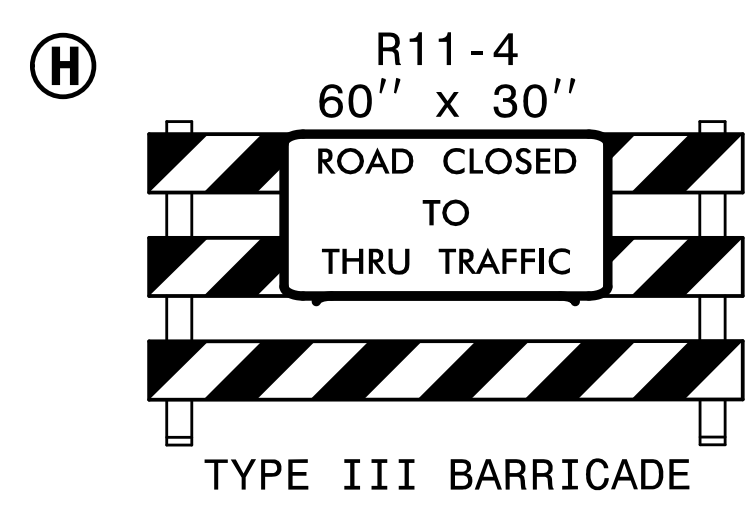
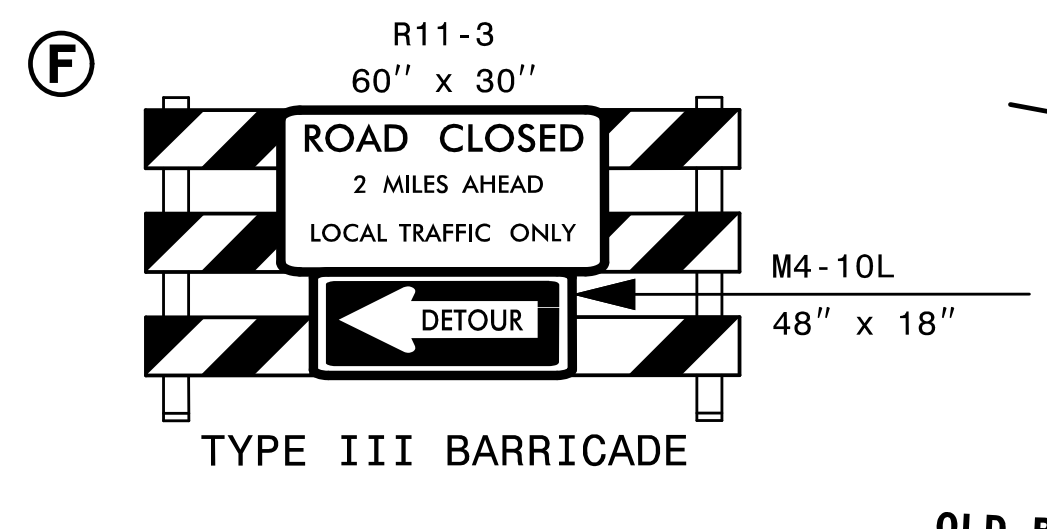
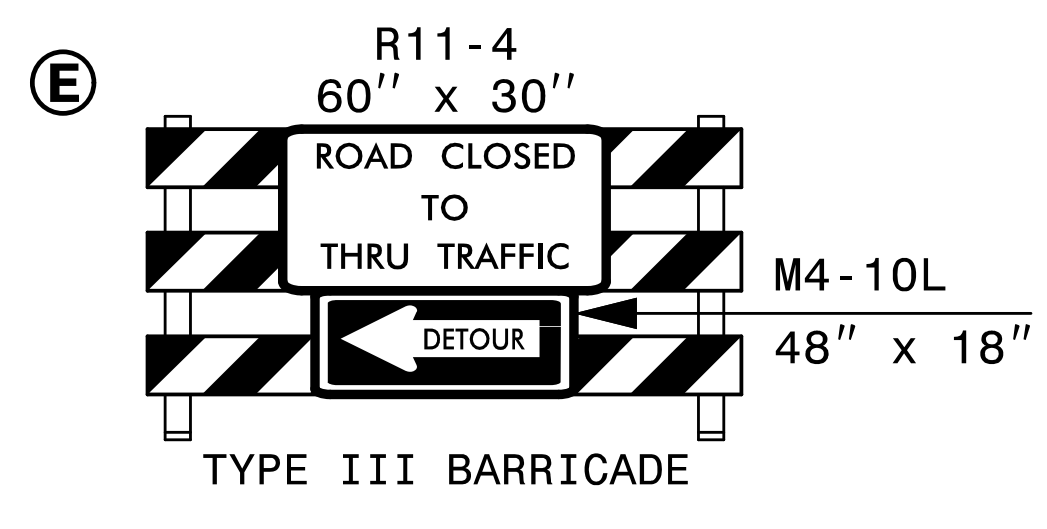
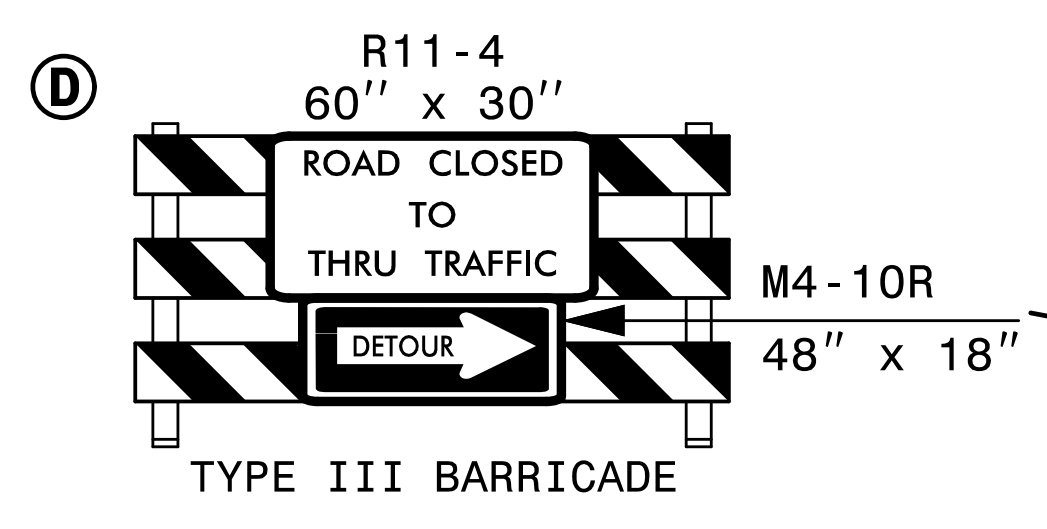
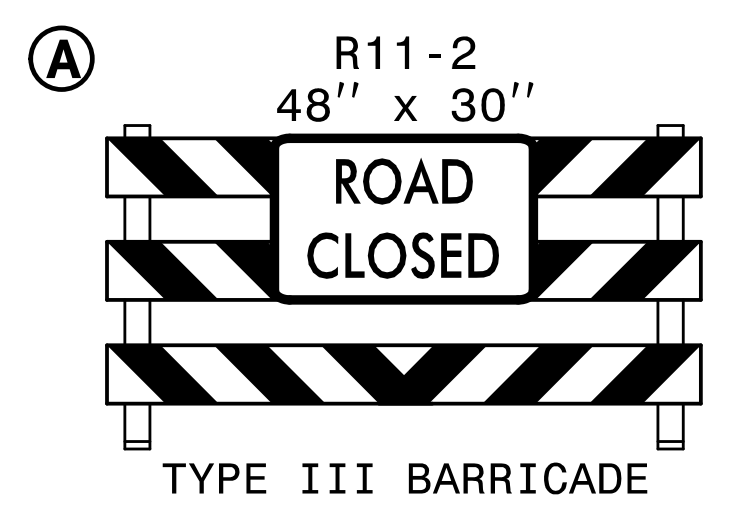
SEAL

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OFFSITE DETOUR #5

-L- FROM -Y5- / -Y6- TO ORGAN CHURCH RD



ICT
PHASE I, STEP 17
STA 318+35+/- TO STA 399+00+/- AWAY FROM TRAFFIC CONSTRUCT NEW ROADWAY SECTIONS AND INSTALL PROPOSED DRAINAGE INCLUDING:
- 9'x8' RCBC @ STA 349+71+/-
- 42" RCP @ STA 351+00+/-
- 10'x7' RCBC @ STA 398+18+/-
LN-6 SEASONAL RESTRICTION

ICT
PHASE I, STEPS 18A THRU 18F
USING FLAGGERS AND GRAVEL TO MAINTAIN ACCESS, CONSTRUCT -Y7- WHILE KEEPING -L- FROM -Y7- TO -Y8- OPEN TO TRAFFIC.
LN-6 SEASONAL RESTRICTION

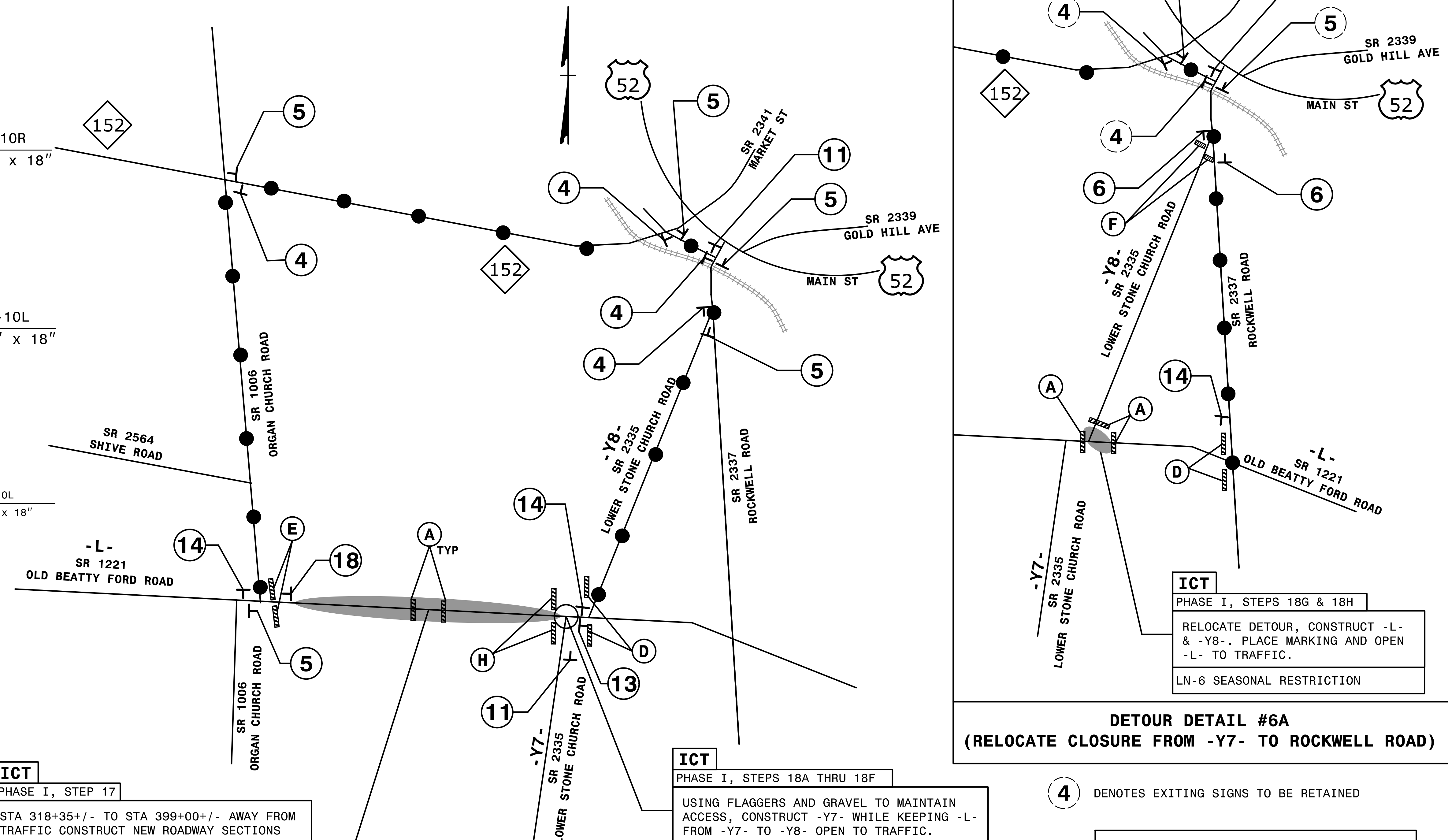
ICT
PHASE I, STEPS 18G & 18H
RELOCATE DETOUR, CONSTRUCT -L- & -Y8-. PLACE MARKING AND OPEN -L- TO TRAFFIC.
LN-6 SEASONAL RESTRICTION

**DETOUR DETAIL #6A
(RELOCATE CLOSURE FROM -Y7- TO ROCKWELL ROAD)**

4 DENOTES EXITING SIGNS TO BE RETAINED

REFER TO RSD 1101.03 (SHEETS 1 & 2 OF 9) FOR ADDITIONAL SIGNS & DEVICES.

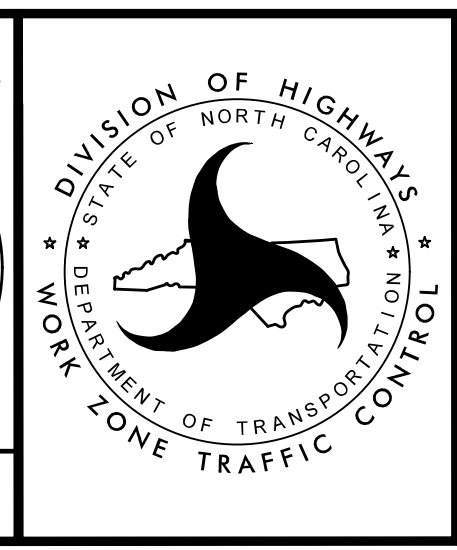
REFER TO SHEET TMP-2 FOR SIGN KEY.



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\$\$\$\$\$USERNAME\$\$\$\$\$

HNTB
HNTB NORTH CAROLINA, P.C.
349 E Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

APPROVED: *Rhonda B. Early*
DATE: 5/3/2016
SEAL
PROFESSIONAL ENGINEER
R. B. EARLY
023521
NORTH CAROLINA



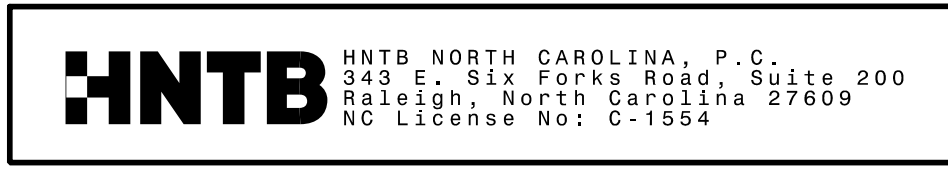
OFFSITE DETOUR #6
-L- FROM ORGAN CHURCH RD TO -Y7-
OFFSITE DETOUR #6A
-L- FROM ORGAN CHURCH RD TO ROCKWELL ROAD

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

| <p>SIGN NUMBER: SP-1 BACKG COLOR: Fluorescent Orange TYPE: D COPY COLOR: Black QUANTITY: 61 SIGN WIDTH: 4'-6" HEIGHT: 2'-6" TOTAL AREA: 11.3 Sq.Ft. BORDER TYPE: RECESSED RECESS: 0.5" WIDTH: 0.75" RADII: 1.875" NO. Z BARS: N/A LENGTH: N/A MAT'L: 0.125" ALUMINUM</p> | <p>DESIGN BY: TRT CHECKED BY: ADK PROJECT ID: W-5313 DIV: 09 DATE: February 2016</p> | <p>BORDER R=1.875" TH=0.75" IN=0.5"</p> <p style="font-size: small;">Spacing Factor is 1 unless specified otherwise</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-------------|----------------|--|-------------|--|---|---|---|---|---|---|---|---|---|--|--|-------------|--|-----|-----|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|----------------|--|---|---|---|---|---|---|---|---|--|--|--|--|----------------|--|-----|-----|-----|-----|-----|---|-----|-----|-----|-----|-----|--|--|
| <p>LETTER POSITIONS</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th colspan="12">Letter spacings are to start of next letter</th> <th>Series/Size</th> </tr> <tr> <th></th><th>O</th><th>L</th><th>D</th><th>B</th><th>E</th><th>A</th><th>T</th><th>T</th><th>Y</th><th></th><th></th> <th>Text Length</th> </tr> </thead> <tbody> <tr> <td></td><td>6.6</td><td>4.7</td><td>3.9</td><td>3.4</td><td>6</td><td>4.4</td><td>3.6</td><td>4.2</td><td>3.4</td><td>3.4</td><td>3.8</td><td>6.6</td> <td>C 2000 40.9</td> </tr> <tr> <td></td><td>F</td><td>O</td><td>R</td><td>D</td><td>R</td><td>O</td><td>A</td><td>D</td><td></td><td></td><td></td><td></td> <td>C 2000 38.8</td> </tr> <tr> <td></td><td>7.6</td><td>3.8</td><td>4.7</td><td>4.4</td><td>3.4</td><td>6</td><td>4.3</td><td>4.3</td><td>4.7</td><td>3.4</td><td>7.6</td><td></td> <td></td> </tr> </tbody> </table> | | | Letter spacings are to start of next letter | | | | | | | | | | | | Series/Size | | O | L | D | B | E | A | T | T | Y | | | Text Length | | 6.6 | 4.7 | 3.9 | 3.4 | 6 | 4.4 | 3.6 | 4.2 | 3.4 | 3.4 | 3.8 | 6.6 | C 2000 40.9 | | F | O | R | D | R | O | A | D | | | | | C 2000 38.8 | | 7.6 | 3.8 | 4.7 | 4.4 | 3.4 | 6 | 4.3 | 4.3 | 4.7 | 3.4 | 7.6 | | |
| Letter spacings are to start of next letter | | | | | | | | | | | | Series/Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | O | L | D | B | E | A | T | T | Y | | | Text Length | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6.6 | 4.7 | 3.9 | 3.4 | 6 | 4.4 | 3.6 | 4.2 | 3.4 | 3.4 | 3.8 | 6.6 | C 2000 40.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | F | O | R | D | R | O | A | D | | | | | C 2000 38.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7.6 | 3.8 | 4.7 | 4.4 | 3.4 | 6 | 4.3 | 4.3 | 4.7 | 3.4 | 7.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| <p>SIGN NUMBER: SP-2 BACKG COLOR: Fluorescent Orange TYPE: D COPY COLOR: Black QUANTITY: 8 SIGN WIDTH: 4'-6" HEIGHT: 2'-6" TOTAL AREA: 11.3 Sq.Ft. BORDER TYPE: RECESSED RECESS: 0.5" WIDTH: 0.75" RADII: 1.875" NO. Z BARS: N/A LENGTH: N/A MAT'L: 0.125" ALUMINUM</p> | <p>DESIGN BY: TRT CHECKED BY: ADK PROJECT ID: W-5313 DIV: 09 DATE: February 2016</p> | <p>BORDER R=1.875" TH=0.75" IN=0.5"</p> <p style="font-size: small;">Spacing Factor is 1 unless specified otherwise</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|---|-----|-----|-----|-----|-----|------|-----|-----|-------------|----------------|--|-------------|--|---|---|---|---|---|---|---|--|--|--|--|-------------|--|------|-----|-----|-----|-----|-----|-----|-----|------|--|--|--|----------------|--|---|---|---|---|---|---|---|---|--|--|--|--|--------------|--|-----|-----|-----|-----|-----|---|-----|-----|-----|-----|-----|--|--|
| <p>LETTER POSITIONS</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th colspan="12">Letter spacings are to start of next letter</th> <th>Series/Size</th> </tr> <tr> <th></th><th>S</th><th>H</th><th>U</th><th>P</th><th>I</th><th>N</th><th>G</th><th></th><th></th><th></th><th></th> <th>Text Length</th> </tr> </thead> <tbody> <tr> <td></td><td>12.8</td><td>4.4</td><td>4.7</td><td>4.7</td><td>4.6</td><td>2.2</td><td>4.6</td><td>3.4</td><td>12.8</td><td></td><td></td><td></td> <td>C 2000 28.4</td> </tr> <tr> <td></td><td>M</td><td>I</td><td>L</td><td>L</td><td>R</td><td>O</td><td>A</td><td>D</td><td></td><td></td><td></td><td></td> <td>C 2000 37</td> </tr> <tr> <td></td><td>8.5</td><td>5.3</td><td>2.2</td><td>3.9</td><td>3.1</td><td>6</td><td>4.3</td><td>4.3</td><td>4.7</td><td>3.4</td><td>8.5</td><td></td> <td></td> </tr> </tbody> </table> | | | Letter spacings are to start of next letter | | | | | | | | | | | | Series/Size | | S | H | U | P | I | N | G | | | | | Text Length | | 12.8 | 4.4 | 4.7 | 4.7 | 4.6 | 2.2 | 4.6 | 3.4 | 12.8 | | | | C 2000 28.4 | | M | I | L | L | R | O | A | D | | | | | C 2000 37 | | 8.5 | 5.3 | 2.2 | 3.9 | 3.1 | 6 | 4.3 | 4.3 | 4.7 | 3.4 | 8.5 | | |
| Letter spacings are to start of next letter | | | | | | | | | | | | Series/Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | S | H | U | P | I | N | G | | | | | Text Length | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12.8 | 4.4 | 4.7 | 4.7 | 4.6 | 2.2 | 4.6 | 3.4 | 12.8 | | | | C 2000 28.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | M | I | L | L | R | O | A | D | | | | | C 2000 37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8.5 | 5.3 | 2.2 | 3.9 | 3.1 | 6 | 4.3 | 4.3 | 4.7 | 3.4 | 8.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

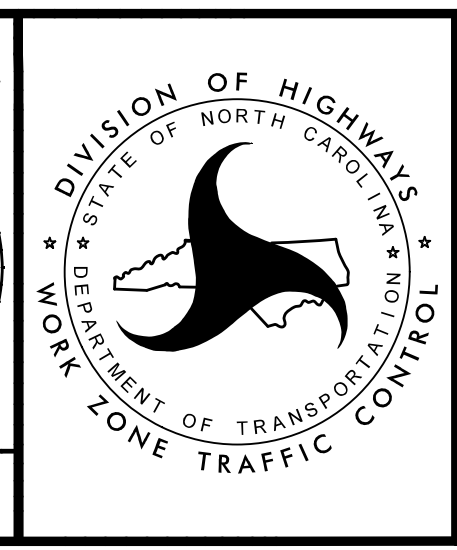
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 DATE: 5/3/2016

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TRANSPORTATION
MANAGEMENT PLAN

SPECIAL
SIGN DESIGNS

PHASING

| | |
|---------------------|-----------|
| PROJ. REFERENCE NO. | SHEET NO. |
| W-5313 | TMP-3 |

NOTES:

COMPLETE ANY PROPOSED WIDENING IN SUCH A MANNER THAT PONDING OF WATER WILL NOT OCCUR IN THE TRAVEL LANE. THIS MAY REQUIRE A COMBINATION OF INSTALLATION OF PROPOSED PIPES, TEMPORARY PIPES, STEEL PLATES, AND TEMPORARY DITCHES.

PAVE PROPOSED CONSTRUCTION, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, IN ALL PHASES UNTIL STATED TO INSTALL FINAL LAYER IN THE PHASING.

DO NOT UTILIZE MORE THAN ONE OFF-SITE DETOUR AT A TIME UNLESS SPECIFIED OTHERWISE IN THE PHASING (DETOURS #1, #4 & #4A).

THE TERM RSD DENOTES "ROADWAY STANDARD DRAWING".

PHASE I (SEE TMP-4 FOR OVERVIEW)

STEP 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS ON -L- (OLD BEATTY FORD RD), AND ALL ROADS THAT INTERSECT OLD BEATTY FORD ROAD WITHIN THE PROJECT LIMITS ACCORDING TO RSD 1101.01.

INSTALL AND COVER ALL DETOUR SIGNS AS SHOWN ON SHEET TMP-2A.

UNCOVER TRUCK ROUTE DETOUR (SHEET TMP-2B) AND DETOUR TRUCKS FOR DURATION OF PROJECT.

NOTE: THE CONTRACTOR MAY WORK ON THE FOLLOWING ITEMS NON-CONCURRENTLY/ IN ANY ORDER AT ANY TIME AFTER PHASE I STEP 1:

- PHASE I, STEPS 2 THROUGH 5
- PHASE I, STEPS 6 THROUGH 11
- PHASE I, STEPS 12 THROUGH 14
- PHASE I, STEPS 15 THROUGH 16
- PHASE I, STEPS 17 THROUGH 19

COMPLETE THE REQUIREMENTS OF PHASE I, STEP 2 THRU PHASE I, STEP 5 FROM JUNE 12 TO AUGUST 28. (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.)

NOTE: REFER TO SHEETS TMP-5 THRU TMP-8 FOR STEP 2 DETAILS.

STEP 2: USING RSD 1101.02 (SHEET 1 OF 15), COMPLETE THE FOLLOWING:
 * -L- FROM STA 10+25+/- TO STA 24+40+/-: WEDGE EXISTING AND WIDEN LEFT. PROVIDE SMOOTH TRANSITION GRADE TO EXISTING -Y1- (LN-1) (LN-5)
 * -L- FROM STA 24+40+/- TO STA 57+50+/- & -Y2-: WEDGE AND WIDEN. (LN-5)

STEP 3: PLACE TEMPORARY PAVEMENT MARKING ON -L- FROM STA 10+25+/- TO STA 57+50+/- AS SHOWN ON SHEETS TMP-9 & TMP-10. (LN-5)

NOTE: REFER TO SHEETS TMP-9 & TMP-10 FOR STEP 4 DETAILS.

STEP 4: USING RSD 1101.02 (SHEET 1 OF 15), COMPLETE THE FOLLOWING:
 * -L- FROM STA 10+25+/- TO STA 24+40+/- WIDEN RIGHT. (LN-5)
 * -Y1- FROM -L- TO STA 14+20+/- WEDGE & WIDEN. (LN-5)

STEP 5: PLACE / REPLACE TEMPORARY PAVEMENT MARKING IN FINAL PATTERN OBLITERATED OR DISTURBED IN STEP 4. (LN-5)

NOTE: REFER TO SHEET TMP-12 FOR STEP 6 DETAILS.

STEP 6: BEGIN THE REQUIREMENTS OF STEP 6A THRU STEP 6C.

6A: AWAY FROM TRAFFIC AND USING RSD 1101.02 (SHEET 1 OF 15) AS NEEDED, CONSTRUCT THE FOLLOWING:

- * -L- FROM STA 150+00+/- TO STA 156+00+/- (LN-1)
- * -Y3- FROM STA 10+50+/- TO -L-
- * -Y4- FROM -L- TO STA 13+75+/-

6B: PLACE TEMPORARY PAVEMENT MARKING, SHIFT -Y3- & -Y4- TO NEW PATTERN. SEE STEP 6C DETAIL.

6C: AWAY FROM TRAFFIC AND USING RSD 1101.02 (SHEET 1 OF 15) AS NEEDED, REMOVE ABANDONED PAVEMENT ALONG -Y3- & -Y4-.

STEP 7: UNCOVER SIGNS FOR OFF-SITE DETOUR #2 (SHEET TMP-2C) AND CLOSE -L- TO COMPLETE THE FOLLOWING. RELOCATE ROAD CLOSURE POINTS ALONG -L- AS NEEDED TO MAINTAIN Y-LINE AND DRIVEWAY ACCESS.

- * -L- FROM STA 72+75+/- TO STA 73+90+/-: REMOVE AND REPLACE PAVEMENT
- * -L- STA 128+16+/-: INSTALL 54" RCP
- * -L- IMPROVEMENTS FROM OLD CONCORD RD TO -Y3-/-Y4- (LN-2)

STEP 8: COVER SIGNS FOR OFF-SITE DETOUR #2 AND OPEN -L- TO TRAFFIC.

STEP 9: UNCOVER SIGNS FOR OFF-SITE DETOUR #3 (SHEET TMP-2D) AND CLOSE -L- TO COMPLETE THE FOLLOWING. RELOCATE ROAD CLOSURE POINTS ALONG -L- AS NEEDED TO MAINTAIN Y-LINE AND DRIVEWAY ACCESS.

- * -L- STA 179+65+/- CONSTRUCT 9X8 RCBC AND CONSTRUCT HEAVY WEDGING FROM STA 165+00+/- TO STA 187+00+/-
- * -L- STA 192+44+/- INSTALL 60" RCP
- * -L- FROM STA 208+80+/- TO STA 222+00+/- INSTALL 42" RCP & CONSTRUCT HEAVY WEDGING
- * -L- IMPROVEMENTS FROM -Y3-/-Y4- TO -Y5-/-Y6- (LN-3)

PHASE I (CONTINUED) (SEE TMP-4 FOR OVERVIEW)

STEP 10: COVER SIGNS FOR OFF-SITE DETOUR #3 AND OPEN -L- TO TRAFFIC.

STEP 11: COMPLETE CONSTRUCTION OF WORK REQUIRED IN STEP 6.

NOTE: REFER TO SHEETS TMP-13 & TMP-14 FOR STEP 12 DETAILS.

STEP 12: COMPLETE WORK REQUIRED IN STEP 12A THRU STEP 12G. (LN-7)

12A: AWAY FROM TRAFFIC AND USING RSD 1101.02 (SHEET 1 OF 15) AS NEEDED, CONSTRUCT -Y6- FROM -L- TO STA 13+28+/-.

COMPLETE THE REQUIREMENTS OF PHASE I, STEP 12B THRU PHASE I, STEP 12D IN ONE WEEKEND FROM 10:00 PM FRIDAY TO 6:00 AM THE FOLLOWING MONDAY. (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.)

12B: UNCOVER SIGNS FOR OFF-SITE DETOUR #4 & 4A (SHEET TMP-2E) AND CLOSE -L- AND -Y5- TO COMPLETE THE FOLLOWING AS SHOWN ON TMP-13. (LN-7)
 NOTE: USE DRUMS TO PROVIDE DRIVEWAY ACCESS WITHIN CLOSURE LIMITS.
 * -L- FROM STA 233+50+/- TO STA 238+00+/-
 * -Y5- FROM STA 11+90+/- TO -L-

12C: USING RSD 1101.02 (SHEET 1 OF 15), WEDGE AND WIDEN THE FOLLOWING TO PROVIDE A SMOOTH TIE TO EXISTING PAVEMENT:
 * -L- FROM STA 232+60+/- TO STA 233+50+/-
 * -Y6- FROM STA 12+72+/- TO STA 15+15+/-

12D: PLACE TEMPORARY PAVEMENT MARKING ON WORK COMPLETED IN STEPS 12A THRU 12C, RELOCATE ROAD CLOSURE, OPEN -Y5- TO TRAFFIC AND SHIFT -Y6- TO NEW PATTERN AS SHOWN ON SHEET TMP-14. COVER DETOUR #4 & 4A SIGNS.

12E: UNCOVER DETOUR #3 SIGNS (SHEET TMP-2D) TO KEEP -L- CLOSED TO TRAFFIC AND ALLOW TRAFFIC ON -Y5-. AWAY FROM TRAFFIC CONSTRUCT -L- FROM STA 227+50+/- TO STA 233+00+/-.

12F: USING RSD 1101.02 (SHEET 1 OF 15) AS NEEDED, CONSTRUCT:
 * -L- FROM STA 233+00+/- TO -Y6- AND REMOVE ABANDONED PAVEMENT
 * -L- FROM STA 222+00+/- TO STA 227+50+/- (LN-1)

12G: PLACE TEMPORARY PAVEMENT MARKING IN TWO-LANE, TWO WAY PATTERN AND OPEN -L- TO TRAFFIC.

STEP 13: CONSTRUCT DESIRED ITEMS REMAINING FROM STEP 9 BETWEEN -L- STA 165+00+/- AND STA 222+00+/- . RELOCATE ROAD CLOSURE POINTS ALONG -L- AS NEEDED TO MAINTAIN Y-LINE AND DRIVEWAY ACCESS. (LN-3)

STEP 14: COVER DETOUR SIGNS FOR DETOUR #3 AND OPEN -L- TO TRAFFIC.

STEP 15: UNCOVER SIGNS FOR OFF-SITE DETOUR #5 (SHEET TMP-2F) AND CLOSE -L- TO THE FOLLOWING. RELOCATE ROAD CLOSURE POINTS ALONG -L- AS NEEDED TO MAINTAIN Y-LINE AND DRIVEWAY ACCESS. (LN-7)
 * -L- STA 238+00+/- TO STA 266+00+/- CONSTRUCT NEW ROADWAY (LN-4)
 * -L- STA 276+00+/- TO STA 295+36+/- INSTALL 54" RCP AND CONSTRUCT HEAVY WEDGE (LN-4)

STEP 16: COVER SIGNS FOR OFF-SITE DETOUR #5 AND OPEN -L- TO TRAFFIC.

COMPLETE THE REQUIREMENTS OF PHASE I, STEP 17 IN NINETY (90) CONSECUTIVE CALENDAR DAYS. (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.)

STEP 17: UNCOVER SIGNS FOR OFF-SITE DETOUR #6 (SHEET TMP-2G) AND CLOSE -L- TO COMPLETE THE FOLLOWING INCLUDING PLACEMENT OF TEMPORARY PAVEMENT MARKINGS. RELOCATE ROAD CLOSURE POINTS ALONG -L- AS NEEDED TO MAINTAIN Y-LINE AND DRIVEWAY ACCESS. (LN-6)

- * INSTALL 9'X8' RCBC @ -L- STA 349+71+/-
- * INSTALL 42" RCP @ -L- STA 351+00+/-
- * INSTALL 10'X7' RCBC @ -L- STA 398+18+/-
- * CONSTRUCT -L- FROM STA 318+35+/- TO STA 399+00+/-

COMPLETE THE REQUIREMENTS OF PHASE I, STEP 18A THRU PHASE I, STEP 18H DURING OFF-PEAK MOWING SEASON BETWEEN OCTOBER 1ST AND MARCH 31ST. (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.)

NOTE: REFER TO SHEETS TMP-15 & TMP-16 FOR STEP 18 & 19 DETAILS.

STEP 18: COMPLETE WORK REQUIRED IN STEP 18A THRU STEP 18H. (LN-6)

18A: MOVE CLOSURE POINTS FOR OFF-SITE DETOUR #6 (ALREADY IN PLACE) AND CLOSE -L- AT -Y7- AS SHOWN ON SHEET TMP-15. (LN-6)

18B: AWAY FROM TRAFFIC, CONSTRUCT -L- FROM STA 399+00+/- TO STA 407+40+/- AND REMOVE ABANDONED PAVEMENT WORKING FROM WEST TO EAST TO MAINTAIN DRIVEWAY ACCESS. (LN-6)

18C: PLACE TEMPORARY PAVEMENT MARKING IN FINAL PATTERN ON -L- FROM STA 399+00+/- TO STA 407+40+/-.

PHASE I (CONTINUED) (SEE TMP-4 FOR OVERVIEW)

18D: USING RSD 1101.02 (SHEET 1 OF 15) AND INCIDENTAL STONE AS NEEDED TO MAINTAIN TRAFFIC, CONSTRUCT -Y7- FROM -L- TO STA 11+40+/- . SHIFT -L- ROAD CLOSURE POINT FROM WEST OF -Y7- TO EAST OF -Y7- AS CONNECTION IS MADE. (LN-6)

18E: AWAY FROM TRAFFIC, CONSTRUCT -L- FROM STA 408+00+/- TO STA 412+00+/- . USING RSD 1101.02 (SHEET 1 OF 15), REMOVE ABANDONED PAVEMENT. (LN-6)

18F: PLACE TEMPORARY PAVEMENT MARKING IN TWO-LANE TWO-WAY PATTERN ON -Y7- & -L- FROM STA 408+00+/- TO STA 412+00+/- .

COMPLETE THE REQUIREMENTS OF PHASE I, STEP 18G AND PHASE I, STEP 18H IN ONE WEEKEND FROM 10:00 PM FRIDAY TO 6:00 AM THE FOLLOWING MONDAY. (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.)

18G: RELOCATE DETOUR POINT AS SHOWN ON DETOUR #6A (TMP-2G) AND COVER SIGNS FROM DETOUR #6 THAT ARE NO LONGER USED. AWAY FROM TRAFFIC CONSTRUCT THE FOLLOWING INCLUDING PLACEMENT OF TEMPORARY PAVEMENT MARKINGS.
 * -L- FROM STA 412+00+/- TO STA 414+00+/- (LN-6)
 * -Y8- FROM STA 11+25+/- TO -L-

18H: OPEN -L- TO TRAFFIC AND COVER DETOUR SIGNS.

STEP 19: USING RSD 1101.02 (SHEET 1 OF 15), WEDGE AND WIDEN -L- FROM STA 414+00+/- TO STA 420+00+/- (END OF PROJECT).

STEP 20: PLACE TEMPORARY PAVEMENT MARKING IN FINAL PATTERN FROM -L- STA 414+00+/- TO STA 420+00+/- .

PHASE II (SEE TMP-4 FOR OVERVIEW)

NOTE: STEPS 1 THRU 3 MAY BE COMPLETED IN ANY ORDER. UPON COMPLETION OF STEPS 1 THRU 3, PROCEED TO STEP 4 UNLESS APPROVED OTHERWISE BY THE ENGINEER.

STEP 1: USING DETOUR #5, RELOCATE ROAD CLOSURE POINTS ALONG -L- AS NEEDED TO MAINTAIN Y-LINE AND DRIVEWAY ACCESS, AND COMPLETE PROPOSED IMPROVEMENTS ALONG -L- FROM -Y5-/-Y6- TO ORGAN CHURCH RD. (LN-4)

STEP 2: USING DETOUR #3, RELOCATE ROAD CLOSURE POINTS ALONG -L- AS NEEDED TO MAINTAIN Y-LINE AND DRIVEWAY ACCESS, AND COMPLETE PROPOSED IMPROVEMENTS ALONG -L- FROM -Y3-/-Y4- TO -Y5-/-Y6-. (LN-3)

STEP 3: USING DETOUR #2, RELOCATE ROAD CLOSURE POINTS ALONG -L- AS NEEDED TO MAINTAIN Y-LINE AND DRIVEWAY ACCESS, AND COMPLETE PROPOSED IMPROVEMENTS ALONG -L- FROM OLD CONCORD RD TO -Y3-/-Y4-. (LN-2)

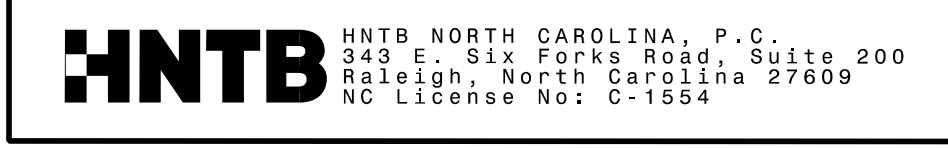
STEP 4: USING RSD 1101.02 (SHEET 1 OF 15), PLACE FINAL LAYER OF SURFACE COURSE, FINAL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON ALL ROADS.

STEP 5: COVER/REMOVE TRUCK DETOUR SIGNS. REMOVE ALL DETOUR SIGNS.

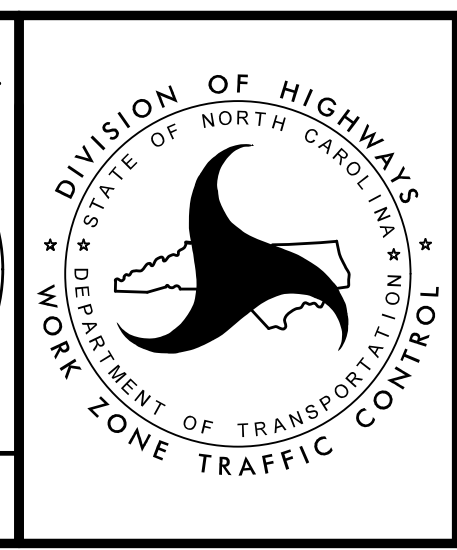
LOCAL NOTES

- LN-1 TEMPORARY WEDGING WILL BE NEEDED TO PROVIDE TRANSITION GRADE FROM PROPOSED PAVEMENT / STRUCTURE TO EXISTING PAVEMENT. TRANSITION GRADES SHOULD BE SMOOTH AND SHOULD AVOID PONDING WATER.
- LN-2 CONTRACTOR MAY ELECT TO COMPLETE SOME OR ALL OF THE WEDGING & WIDENING USING DETOUR #2 DURING PHASE I, STEP 7 OR DURING PHASE II, STEP 3.
- LN-3 CONTRACTOR MAY ELECT TO COMPLETE SOME OR ALL OF THE WEDGING & WIDENING USING DETOUR #3 DURING PHASE I, STEP 9 OR DURING PHASE II, STEP 2.
- LN-4 CONTRACTOR MAY ELECT TO COMPLETE SOME OR ALL OF THE WEDGING & WIDENING USING DETOUR #5 DURING PHASE I, STEP 15 OR DURING PHASE II, STEP 1.
- LN-5 COMPLETE REQUIRED WORK FROM BEGINNING OF PROJECT TO OLD CONCORD RD IN THE SUMMER, WHILE BOSTIAN ELEMENTARY SCHOOL IS OUT OF SESSION.
- LN-6 COMPLETE THE WORK FROM ORGAN CHURCH RD TO -Y8- (LOWER STONE CHURCH RD) BETWEEN OCTOBER 1ST AND MARCH 31ST - DURING OFF PEAK MOWING SEASON.
- LN-7 REFRESH MARKINGS ON SHIVE RD PRIOR TO USING AS DETOUR ROUTE.

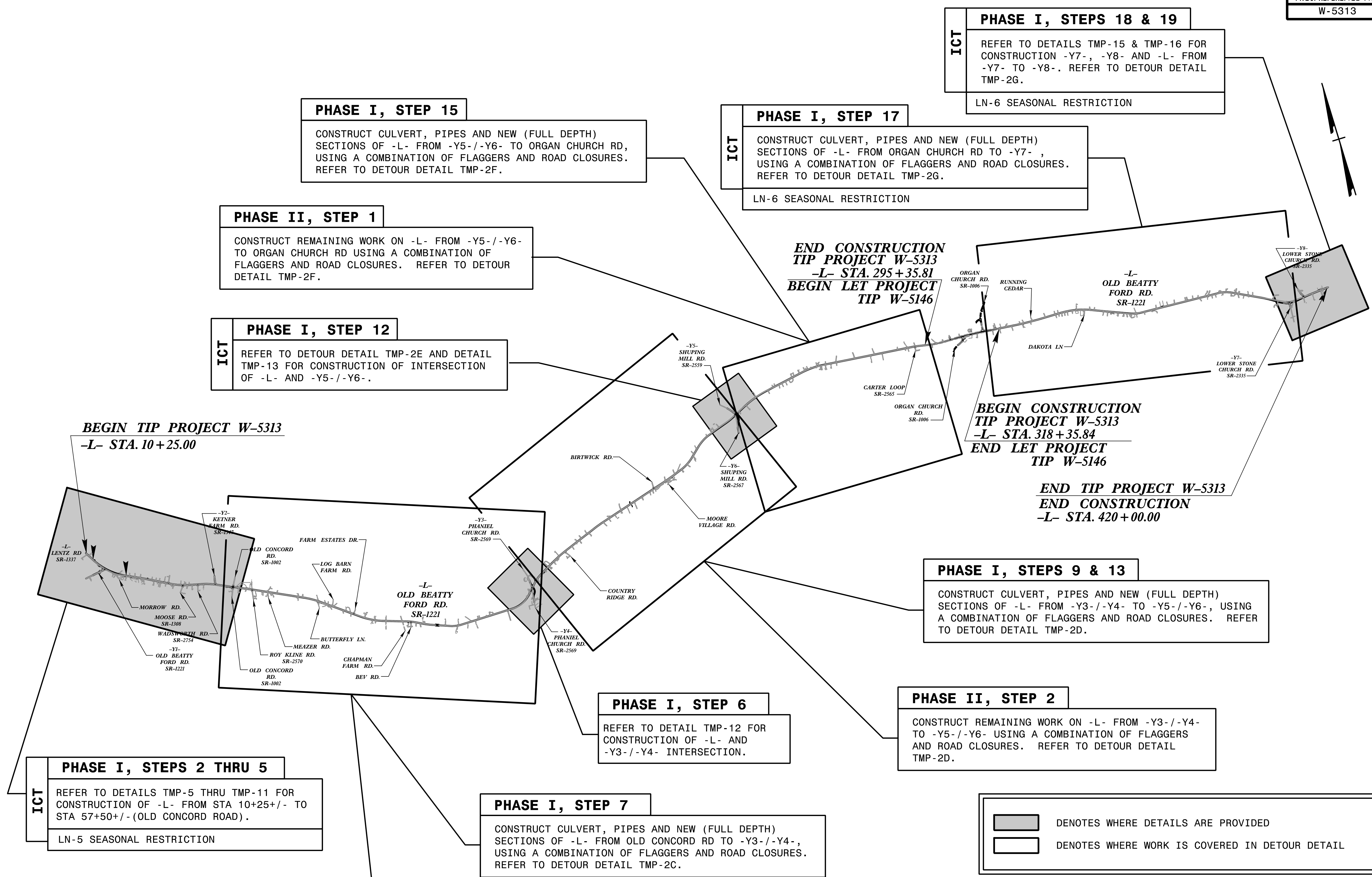
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 DATE: 11/30/2016
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PHASING



PHASE I, STEP 15
 CONSTRUCT CULVERT, PIPES AND NEW (FULL DEPTH) SECTIONS OF -L- FROM -Y5-/-Y6- TO ORGAN CHURCH RD, USING A COMBINATION OF FLAGGERS AND ROAD CLOSURES. REFER TO DETOUR DETAIL TMP-2F.

PHASE I, STEP 17
 CONSTRUCT CULVERT, PIPES AND NEW (FULL DEPTH) SECTIONS OF -L- FROM ORGAN CHURCH RD TO -Y7- , USING A COMBINATION OF FLAGGERS AND ROAD CLOSURES. REFER TO DETOUR DETAIL TMP-2G.
 LN-6 SEASONAL RESTRICTION

PHASE I, STEPS 18 & 19
 REFER TO DETAILS TMP-15 & TMP-16 FOR CONSTRUCTION -Y7-, -Y8- AND -L- FROM -Y7- TO -Y8-. REFER TO DETOUR DETAIL TMP-2G.
 LN-6 SEASONAL RESTRICTION

PHASE II, STEP 1
 CONSTRUCT REMAINING WORK ON -L- FROM -Y5-/-Y6- TO ORGAN CHURCH RD USING A COMBINATION OF FLAGGERS AND ROAD CLOSURES. REFER TO DETOUR DETAIL TMP-2F.

END CONSTRUCTION TIP PROJECT W-5313
 -L- STA. 295+35.81
BEGIN LET PROJECT TIP W-5146

PHASE I, STEP 12
 REFER TO DETOUR DETAIL TMP-2E AND DETAIL TMP-13 FOR CONSTRUCTION OF INTERSECTION OF -L- AND -Y5-/-Y6- .

BEGIN CONSTRUCTION TIP PROJECT W-5313
 -L- STA. 318+35.84
END LET PROJECT TIP W-5146

BEGIN TIP PROJECT W-5313
 -L- STA. 10+25.00

END TIP PROJECT W-5313
 -L- STA. 420+00.00

PHASE I, STEPS 9 & 13
 CONSTRUCT CULVERT, PIPES AND NEW (FULL DEPTH) SECTIONS OF -L- FROM -Y3-/-Y4- TO -Y5-/-Y6- , USING A COMBINATION OF FLAGGERS AND ROAD CLOSURES. REFER TO DETOUR DETAIL TMP-2D.

PHASE I, STEP 6
 REFER TO DETAIL TMP-12 FOR CONSTRUCTION OF -L- AND -Y3-/-Y4- INTERSECTION.

PHASE II, STEP 2
 CONSTRUCT REMAINING WORK ON -L- FROM -Y3-/-Y4- TO -Y5-/-Y6- USING A COMBINATION OF FLAGGERS AND ROAD CLOSURES. REFER TO DETOUR DETAIL TMP-2D.

PHASE I, STEPS 2 THRU 5
 REFER TO DETAILS TMP-5 THRU TMP-11 FOR CONSTRUCTION OF -L- FROM STA 10+25+/- TO STA 57+50+/- (OLD CONCORD ROAD).
 LN-5 SEASONAL RESTRICTION

PHASE I, STEP 7
 CONSTRUCT CULVERT, PIPES AND NEW (FULL DEPTH) SECTIONS OF -L- FROM OLD CONCORD RD TO -Y3-/-Y4- , USING A COMBINATION OF FLAGGERS AND ROAD CLOSURES. REFER TO DETOUR DETAIL TMP-2C.

PHASE II, STEP 3
 CONSTRUCT REMAINING WORK ON -L- FROM OLD CONCORD RD TO -Y3-/-Y4- USING A COMBINATION OF FLAGGERS AND ROAD CLOSURES. REFER TO DETOUR DETAIL TMP-2C.

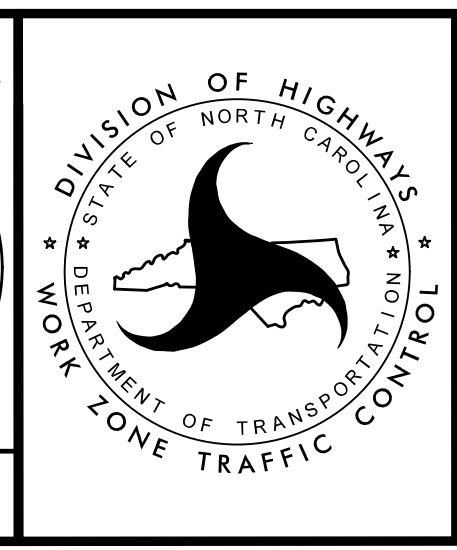
PHASE I, STEP 1
 INSTALL TRUCK DETOUR ROUTE (TMP-2B) AND DETOUR TRUCKS FOR DURATION OF PROJECT.

DENOTES WHERE DETAILS ARE PROVIDED
 DENOTES WHERE WORK IS COVERED IN DETOUR DETAIL

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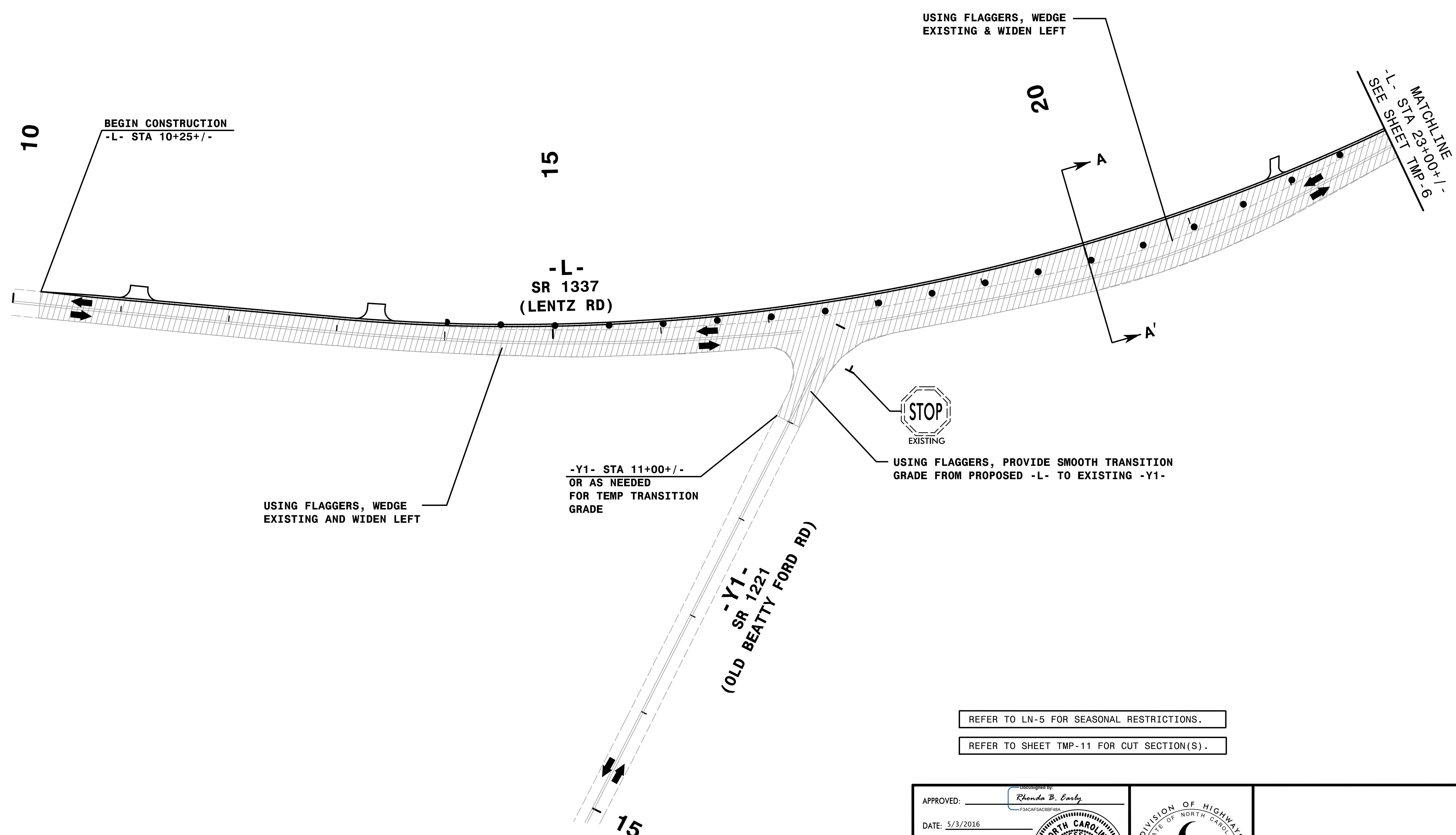
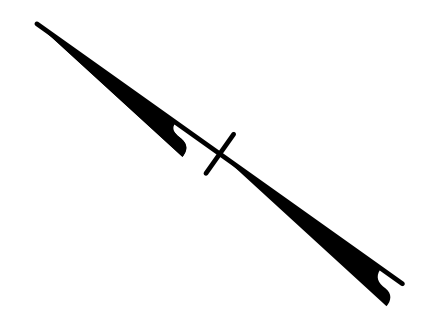
HNTB
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APPROVED: *Rhonda B. Early*
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 R. B. EARLY
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PROJECT OVERVIEW

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REFER TO LN-5 FOR SEASONAL RESTRICTIONS.

REFER TO SHEET TMP-11 FOR CUT SECTION(S).

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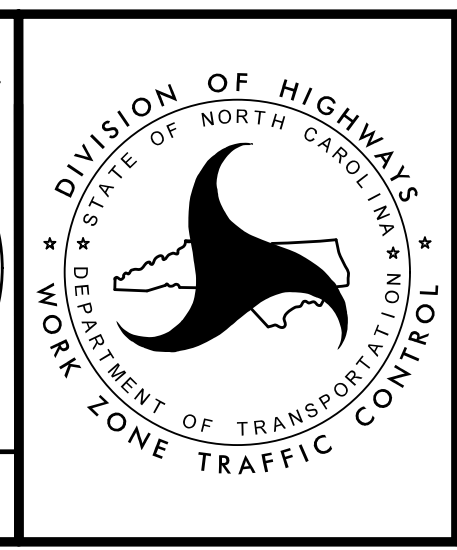
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Documented by: Rhonda B. Early, F34C4F5AC8BFB4A

DATE: 5/3/2016

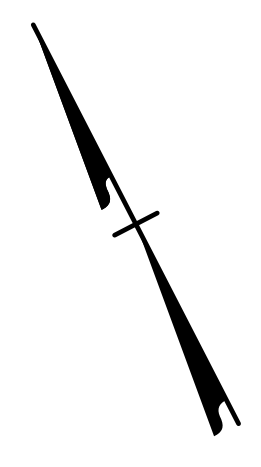
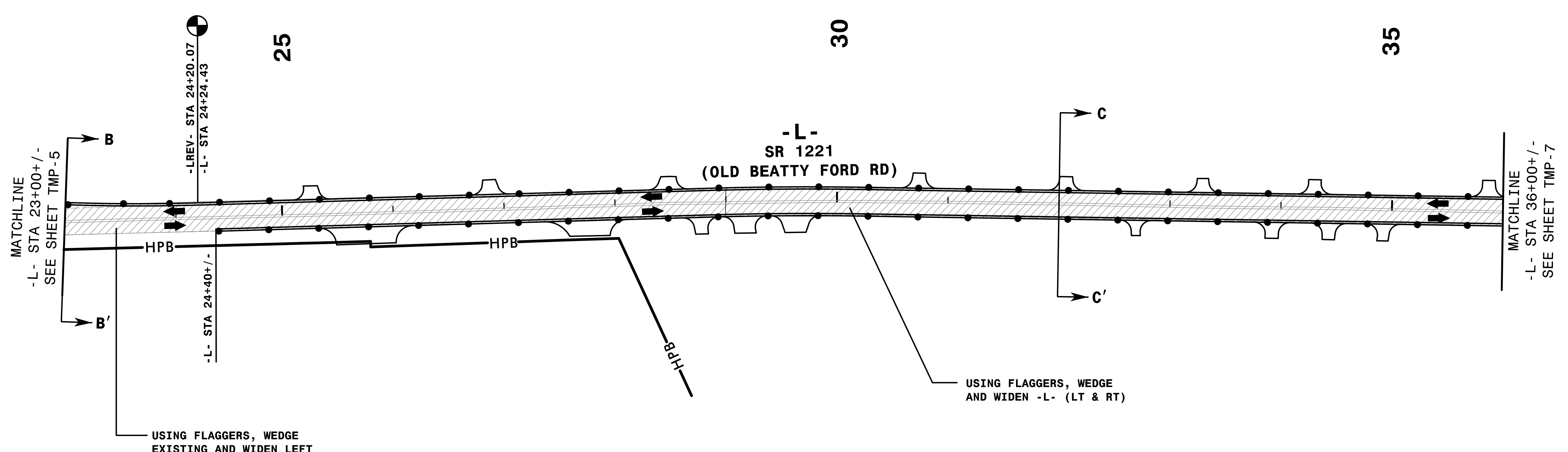
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 SEAL
 023521
 RHONDA B. EARLY



**PHASE I
 STEP 2
 DETAIL**

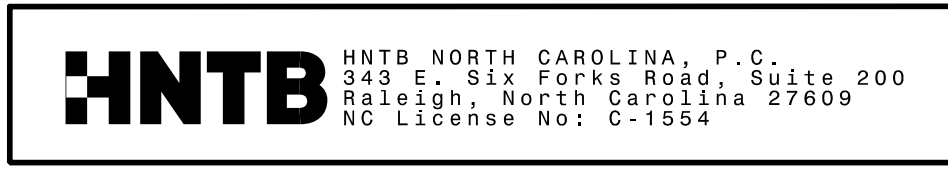
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REFER TO LN-5 FOR SEASONAL RESTRICTIONS.

REFER TO SHEET TMP-11 FOR CUT SECTION(S).

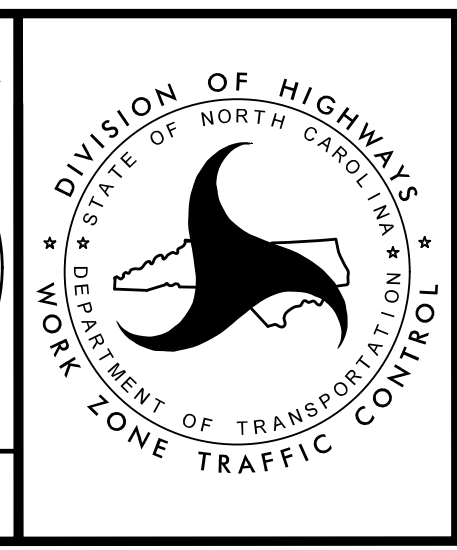
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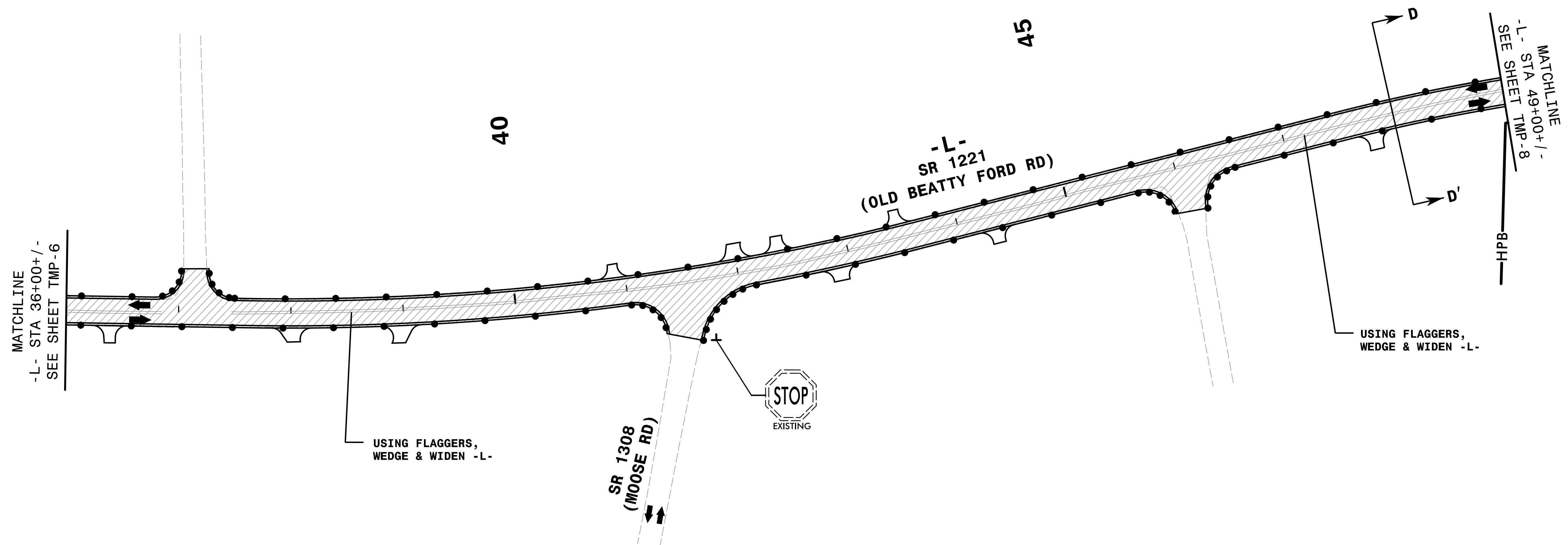
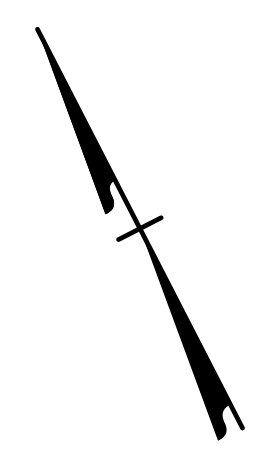
APPROVED: *Rhonda B. Early*
Professional Engineer
 DATE: 5/3/2016

SEAL

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**PHASE I
STEP 2
DETAIL**



REFER TO LN-5 FOR SEASONAL RESTRICTIONS.

REFER TO SHEET TMP-11 FOR CUT SECTION(S).

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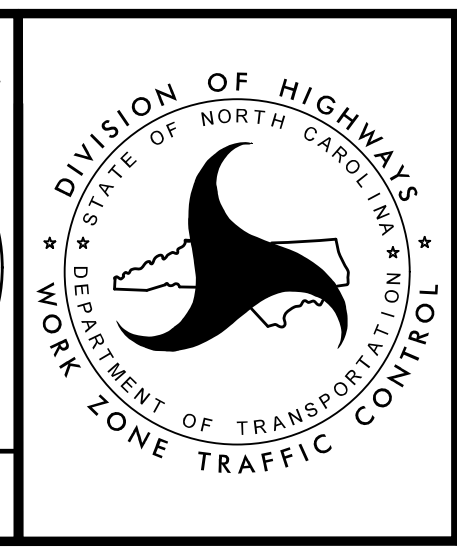
HNTB HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554

APPROVED: *Rhonda B. Early*
DESIGNED BY: Rhonda B. Early
 P34CAFAC0BFB4A

DATE: 5/3/2016

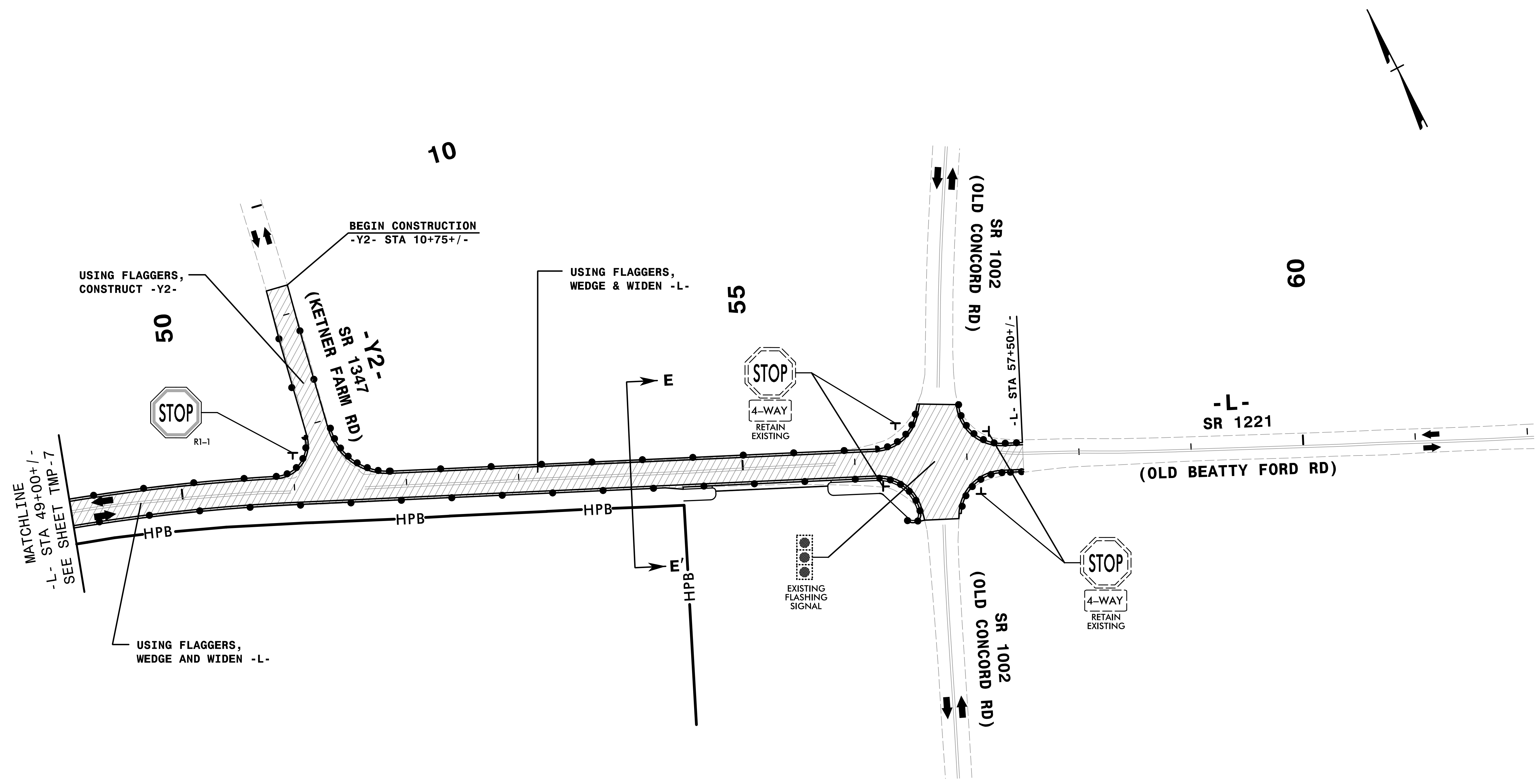
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**PHASE I
STEP 2
DETAIL**

REFER TO SHEETS TMP-XX & TMP-YY FOR CUT SECTION(S)



REFER TO LN-5 FOR SEASONAL RESTRICTIONS.

REFER TO SHEET TMP-11 FOR CUT SECTION(S).

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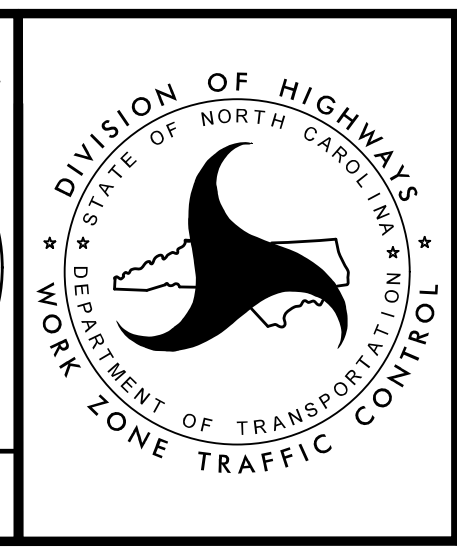
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Raleigh, North Carolina 27609
NC License No: C-1554

APPROVED: *Rhonda B. Early*
DATE: 5/3/2016

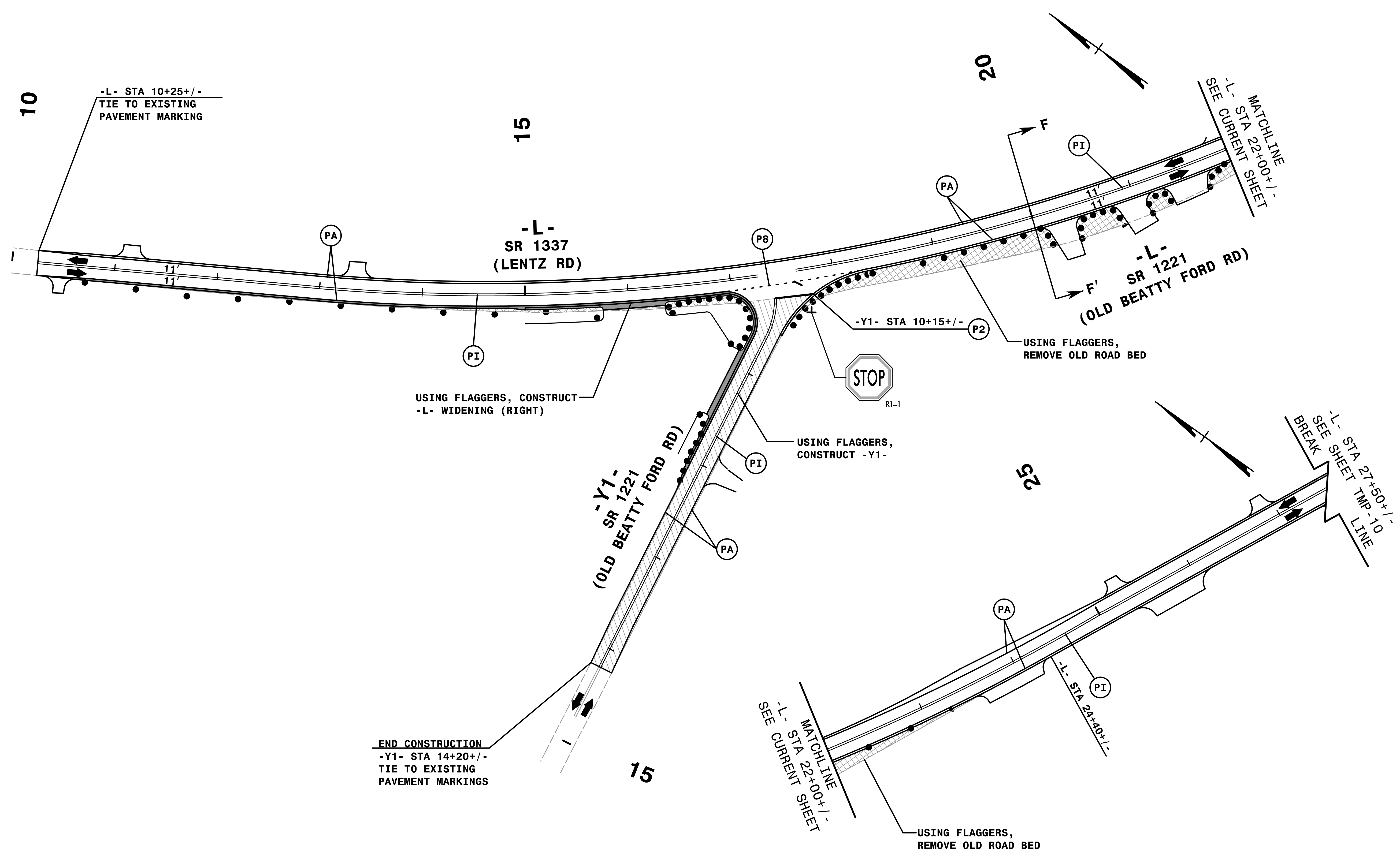
SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 023521
RHONDA B. EARLY

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PHASE I
STEP 2
DETAIL



REFER TO SHEET TMP-11 FOR CUT SECTION(S).

REFER TO LN-5 FOR SEASONAL RESTRICTIONS.

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 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554

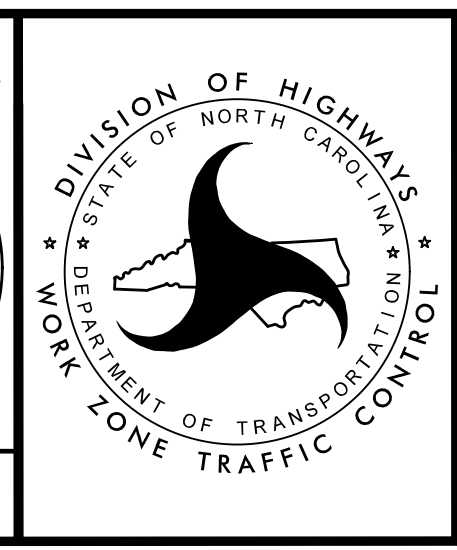
APPROVED: *Rhonda B. Early*
F34CAFAC6BFB48A

DATE: 5/3/2016

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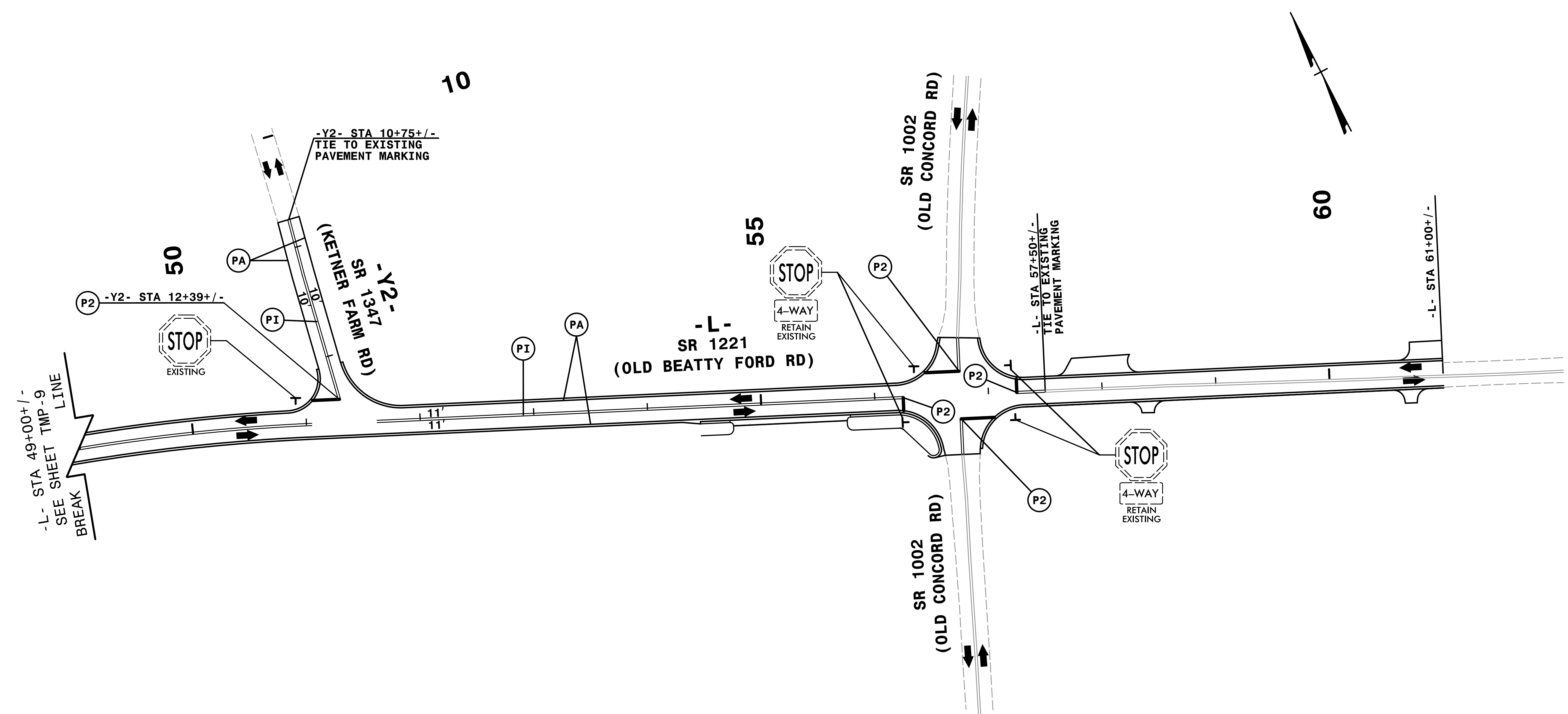
NORTH CAROLINA
 PROFESSIONAL
 SEAL
 023521
 ENGINEER
 RHONDA B. EARLY

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**PHASE I
 STEP 4
 DETAIL**

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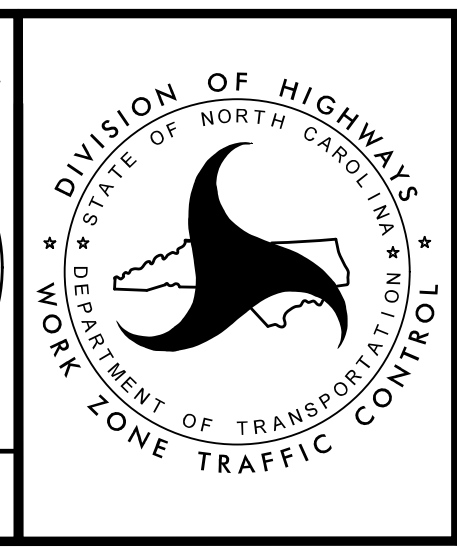


APPROVED: *Rhonda B. Early*
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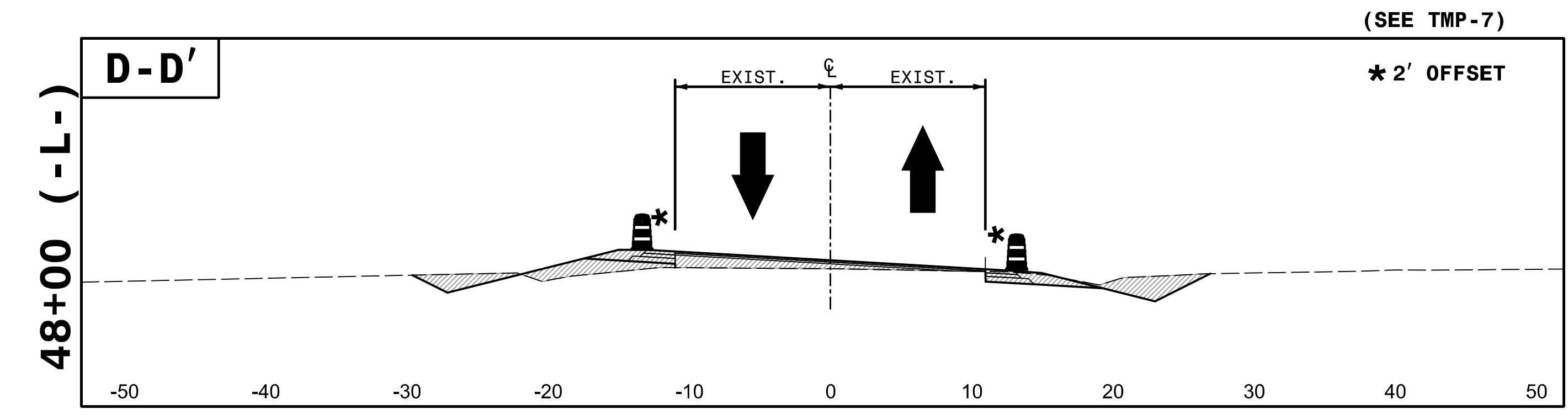
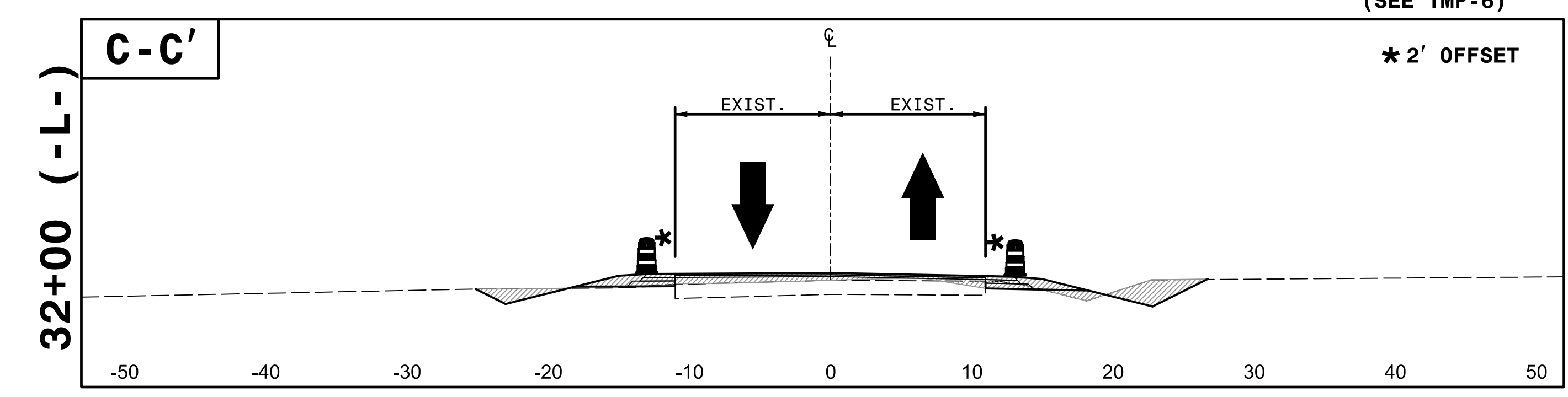
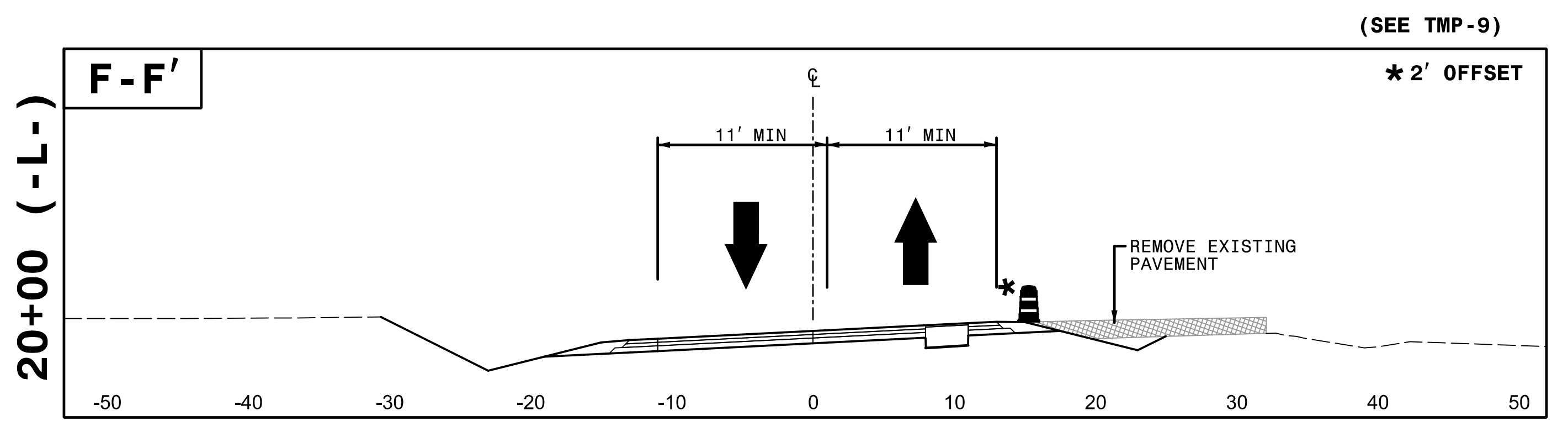
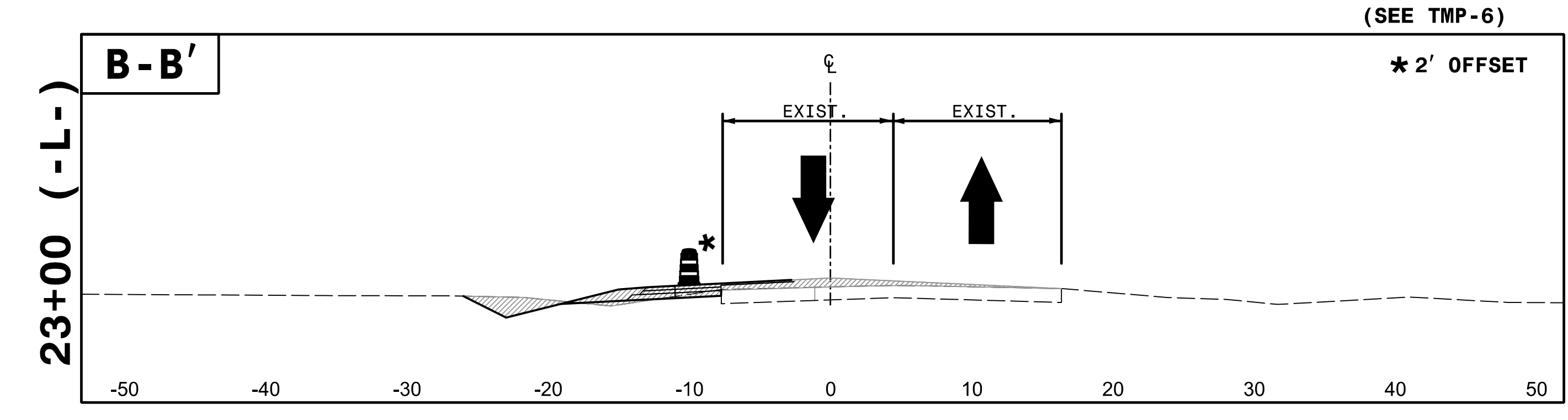
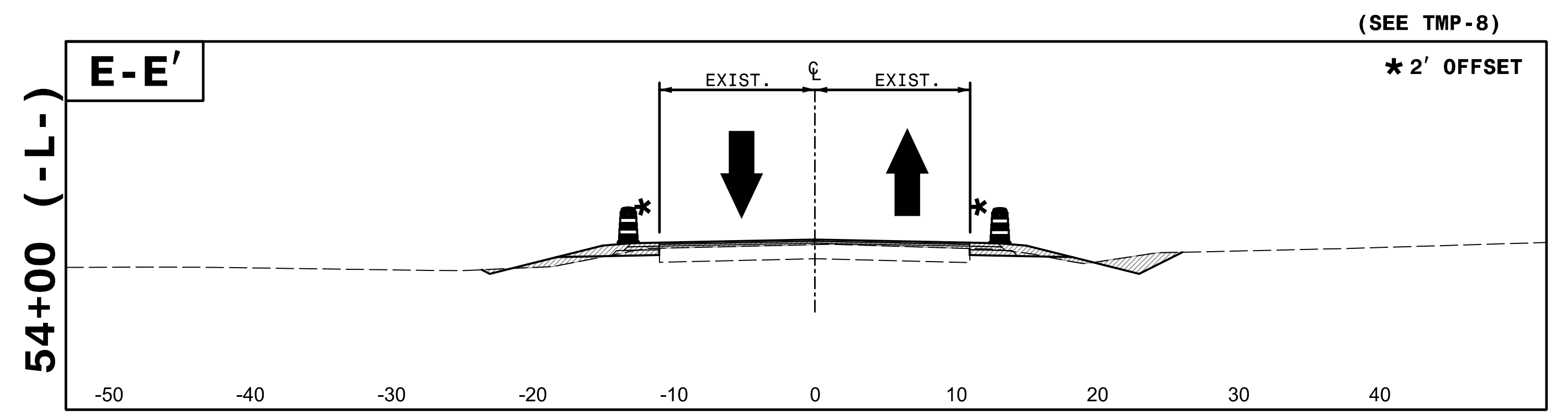
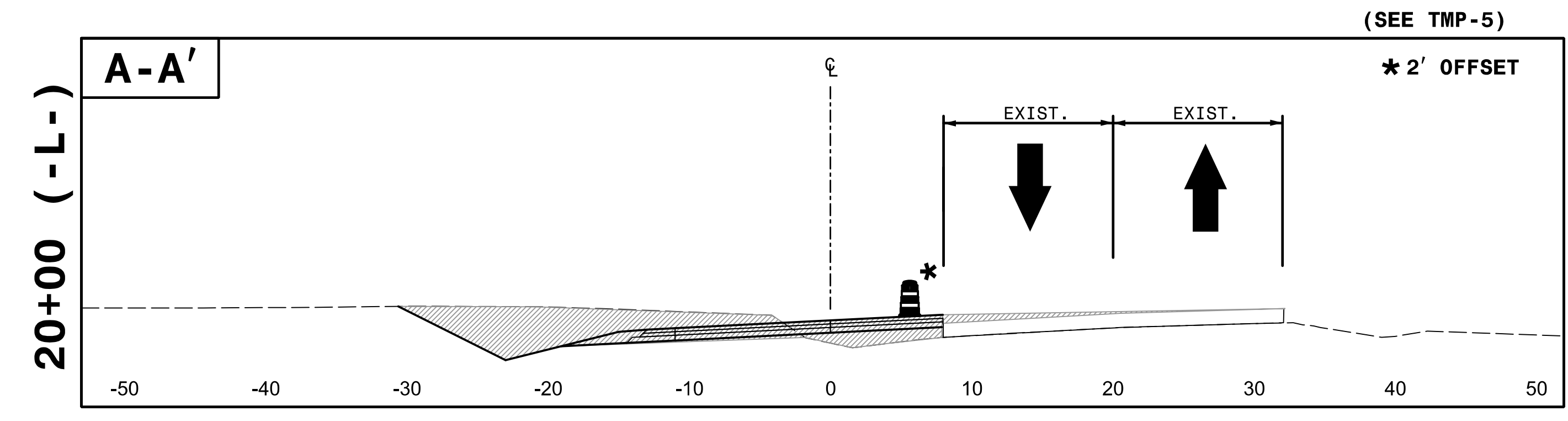
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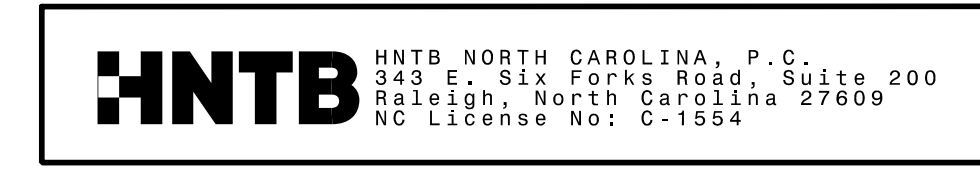
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PHASE I
 STEP 4
 DETAIL



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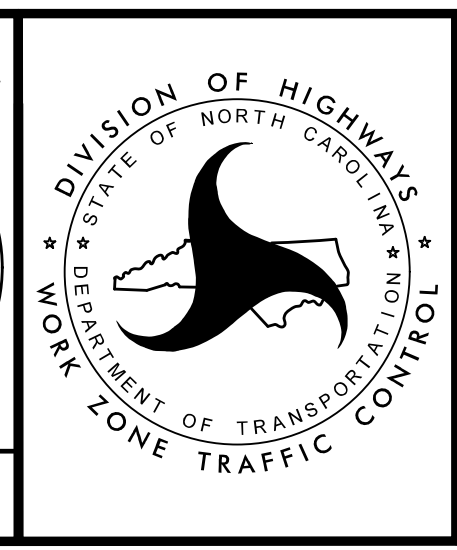


APPROVED: *Rhonda B. Early*
Designated by
F34CAF5AC8BF48A

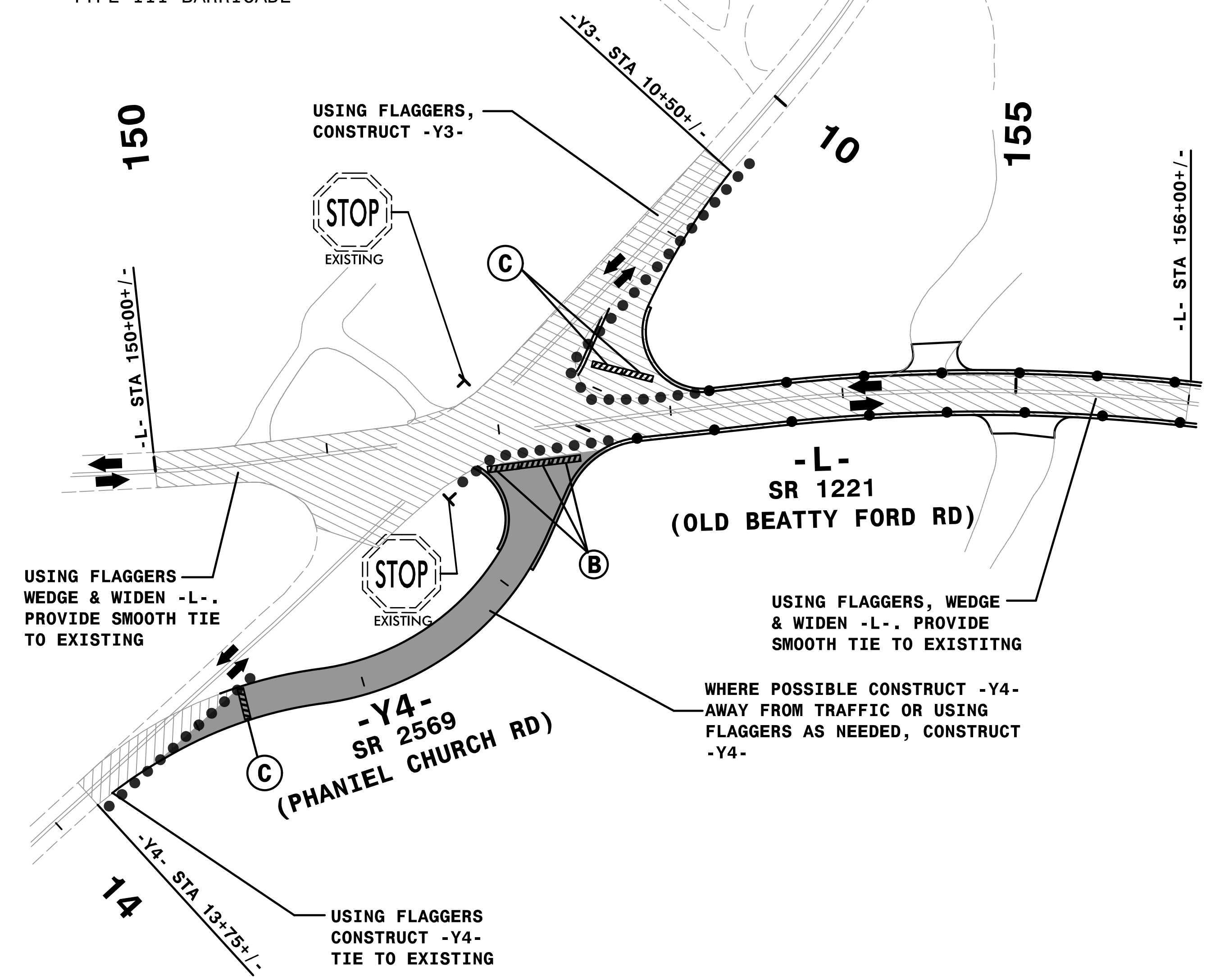
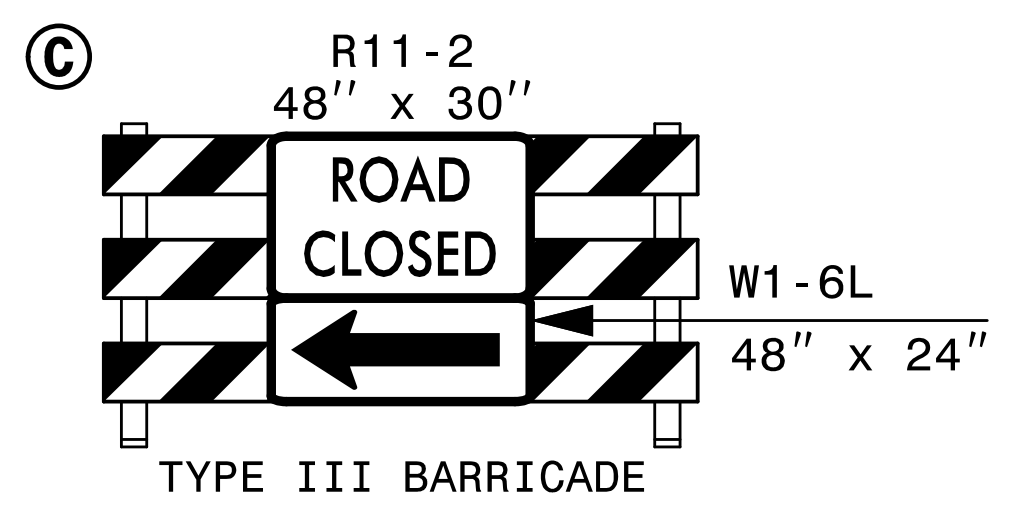
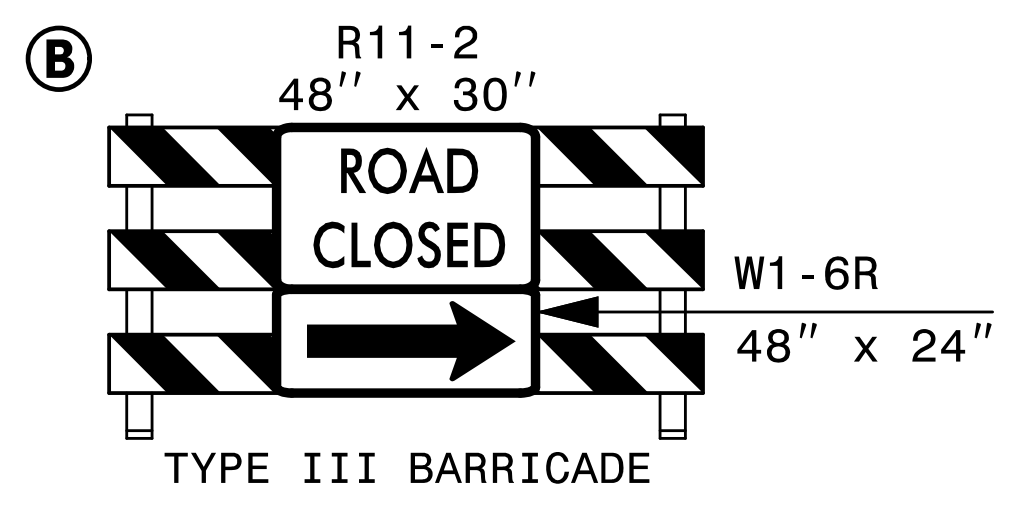
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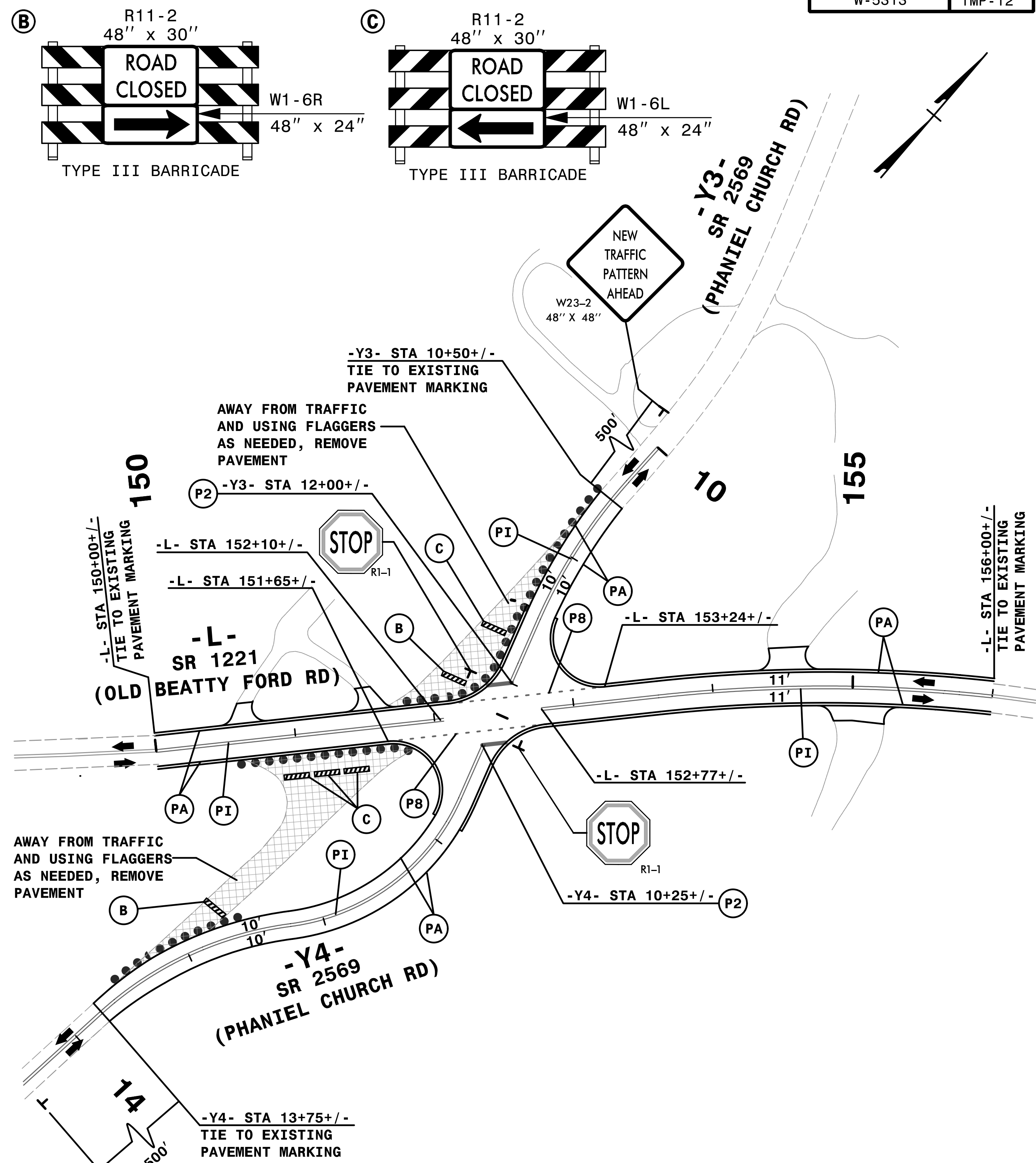
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PHASE I
STEPS 2 & 4
CUT SECTIONS



STEP 6A



STEP 6C

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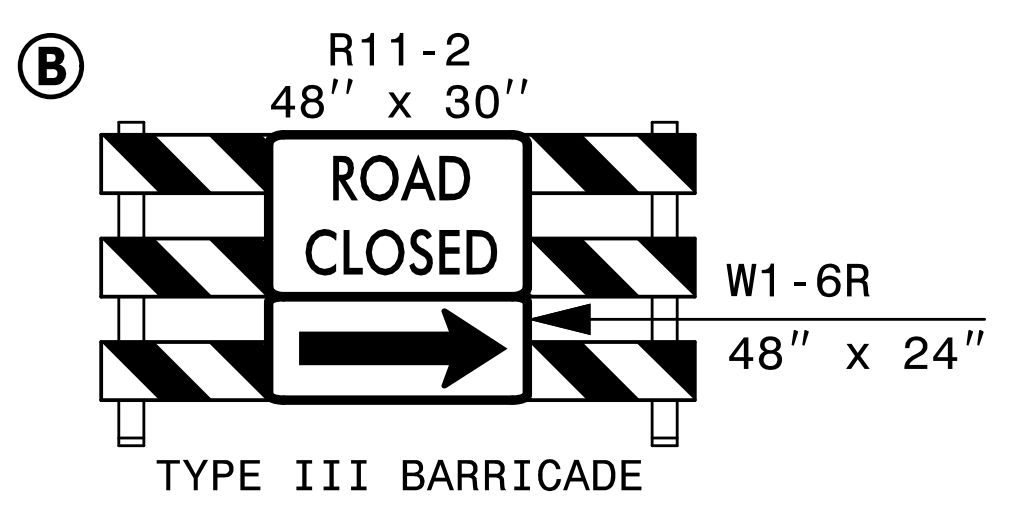
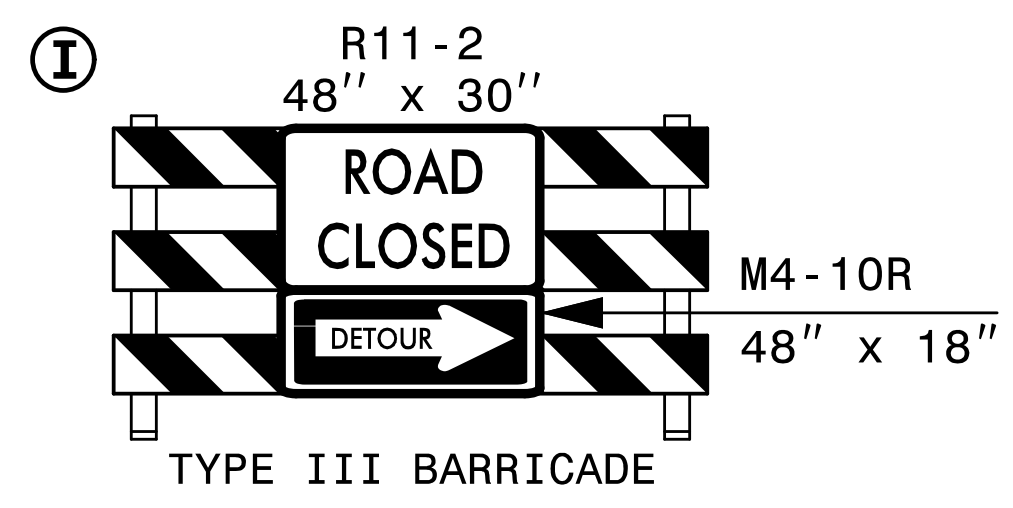
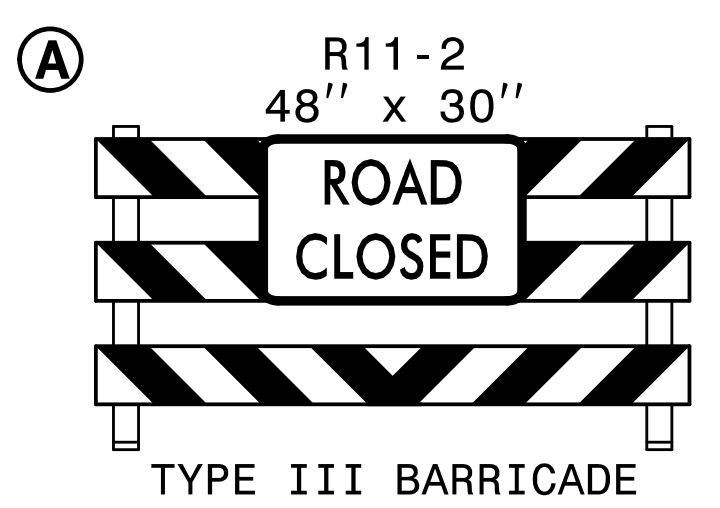
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343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

APPROVED: *Rhonda B. Early*
DATE: 5/3/2016
SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
RHONDA B. EARLY
023521

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

PHASE I
STEP 6
DETAILS

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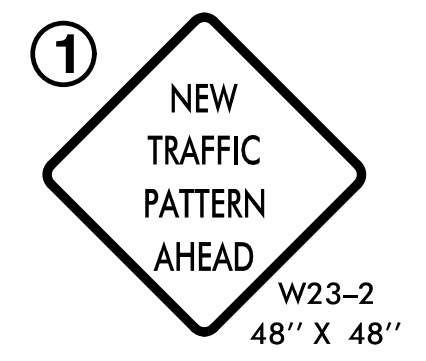
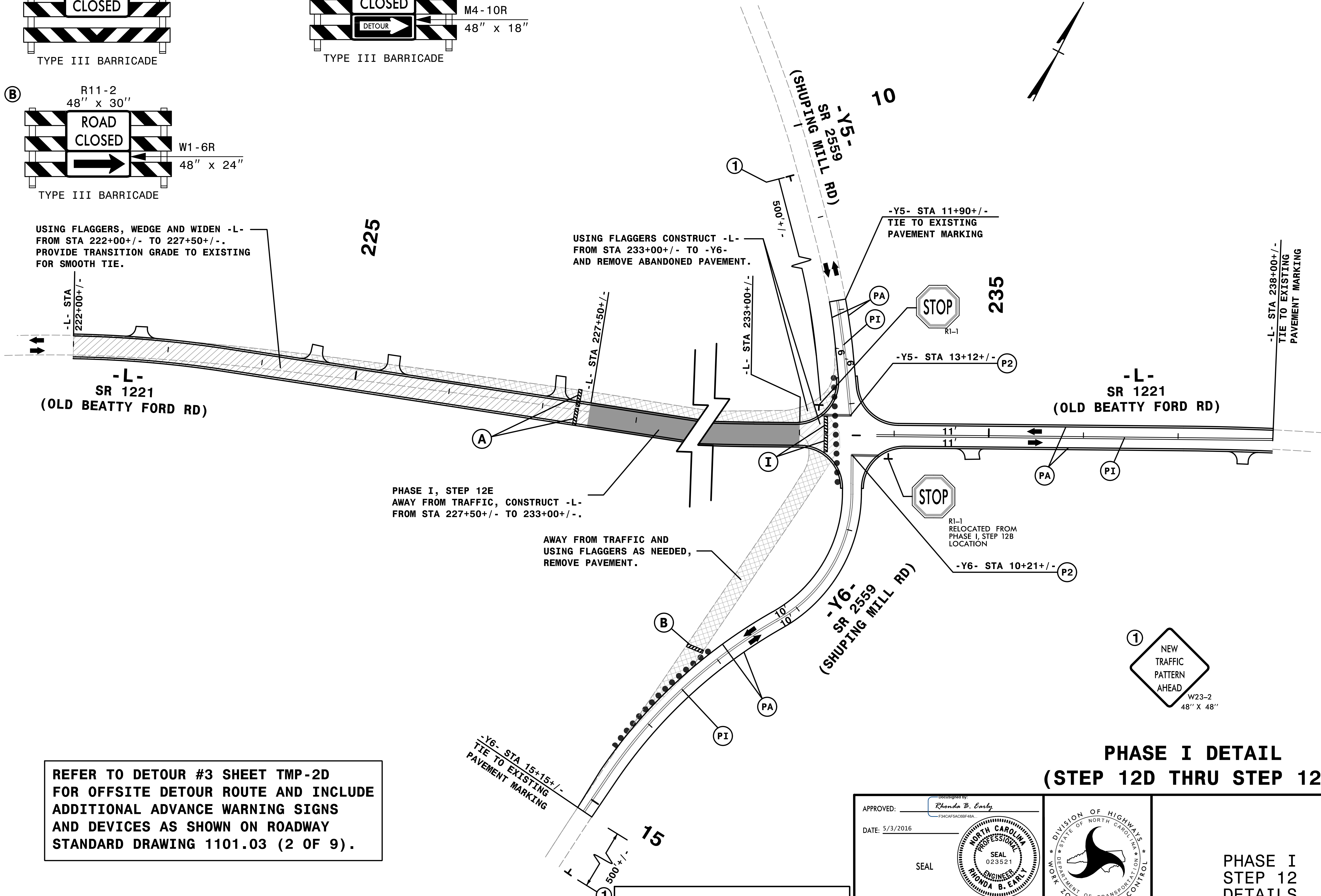
USING FLAGGERS, WEDGE AND WIDEN -L- FROM STA 222+00+/- TO 227+50+/- . PROVIDE TRANSITION GRADE TO EXISTING FOR SMOOTH TIE.

USING FLAGGERS CONSTRUCT -L- FROM STA 233+00+/- TO -Y6- AND REMOVE ABANDONED PAVEMENT.

PHASE I, STEP 12E AWAY FROM TRAFFIC, CONSTRUCT -L- FROM STA 227+50+/- TO 233+00+/- .

AWAY FROM TRAFFIC AND USING FLAGGERS AS NEEDED, REMOVE PAVEMENT.

REFER TO DETOUR #3 SHEET TMP-2D FOR OFFSITE DETOUR ROUTE AND INCLUDE ADDITIONAL ADVANCE WARNING SIGNS AND DEVICES AS SHOWN ON ROADWAY STANDARD DRAWING 1101.03 (2 OF 9).



**PHASE I DETAIL
(STEP 12D THRU STEP 12F)**

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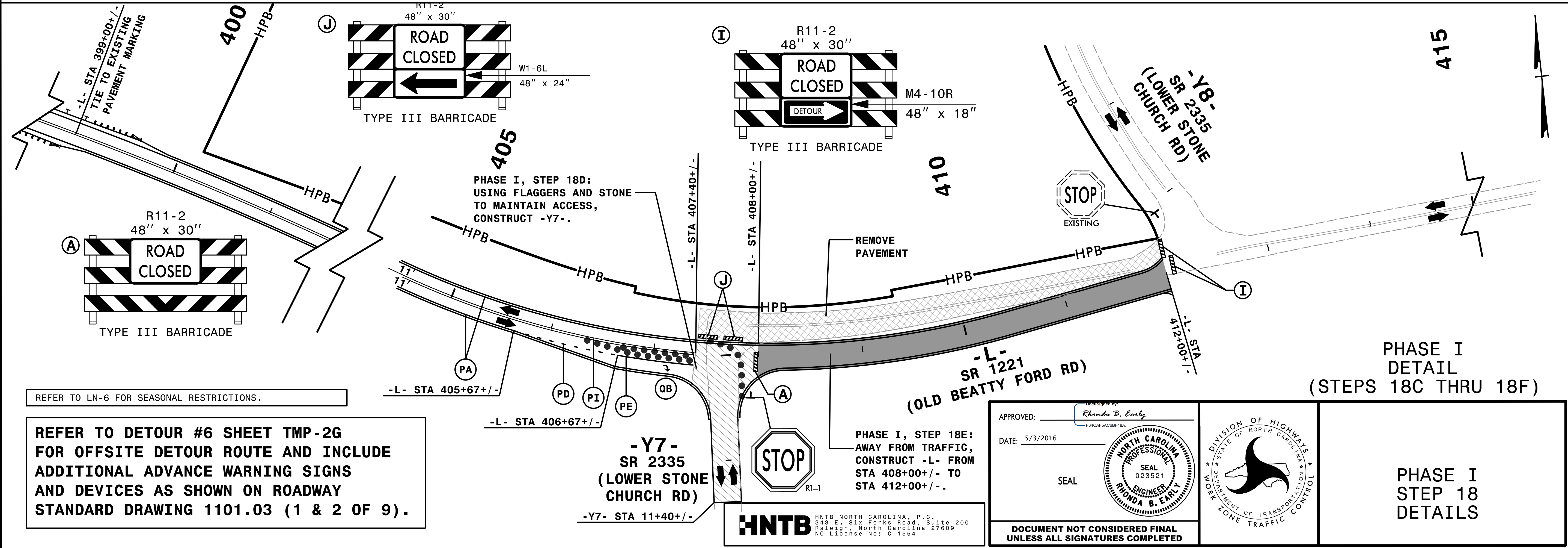
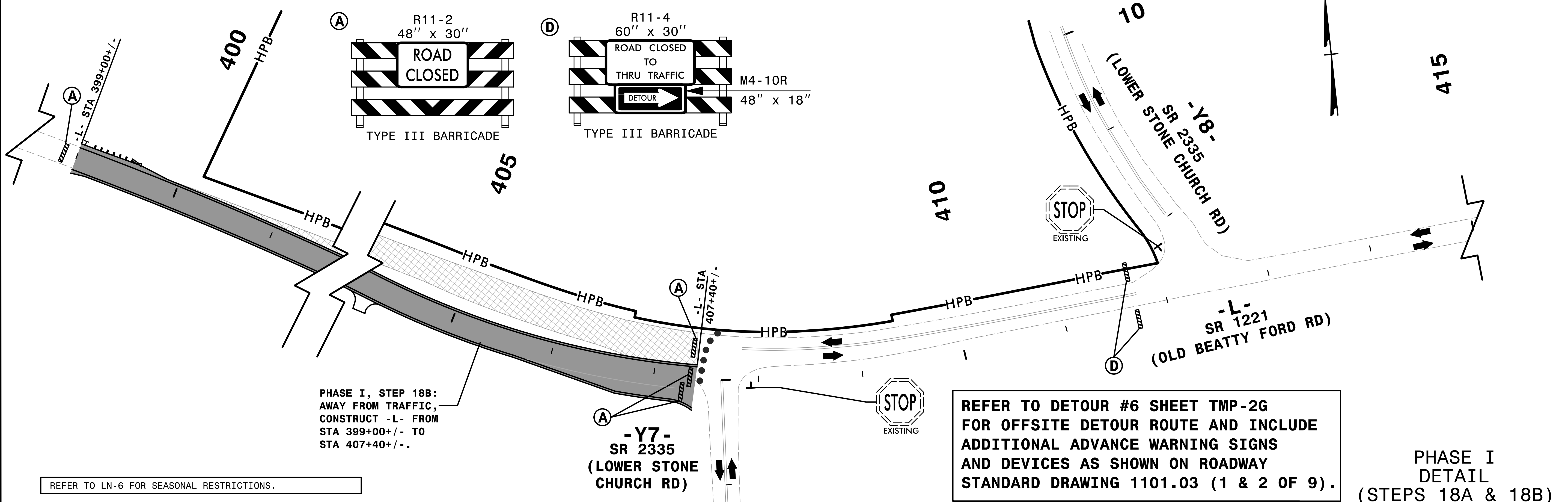
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Raleigh, North Carolina 27609
NC License No: C-1554

APPROVED: *Rhonda B. Early*
DATE: 5/3/2016
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NORTH CAROLINA PROFESSIONAL ENGINEER
R. B. EARLY
023521



PHASE I
STEP 12
DETAILS

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343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

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DATE: 5/3/2016

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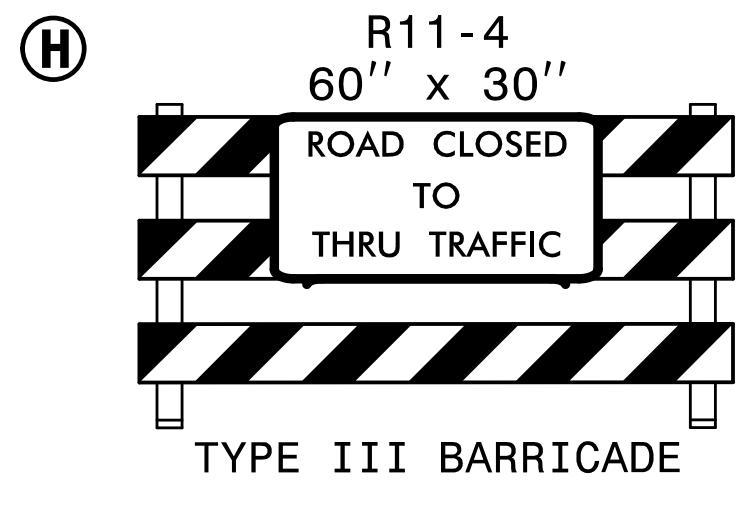
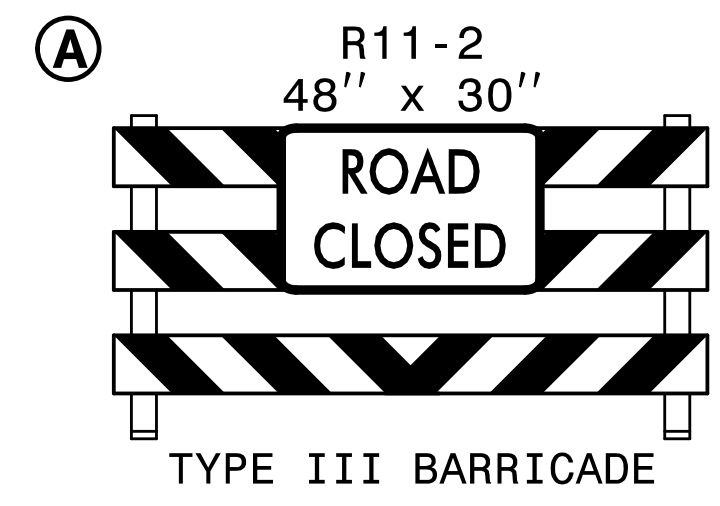
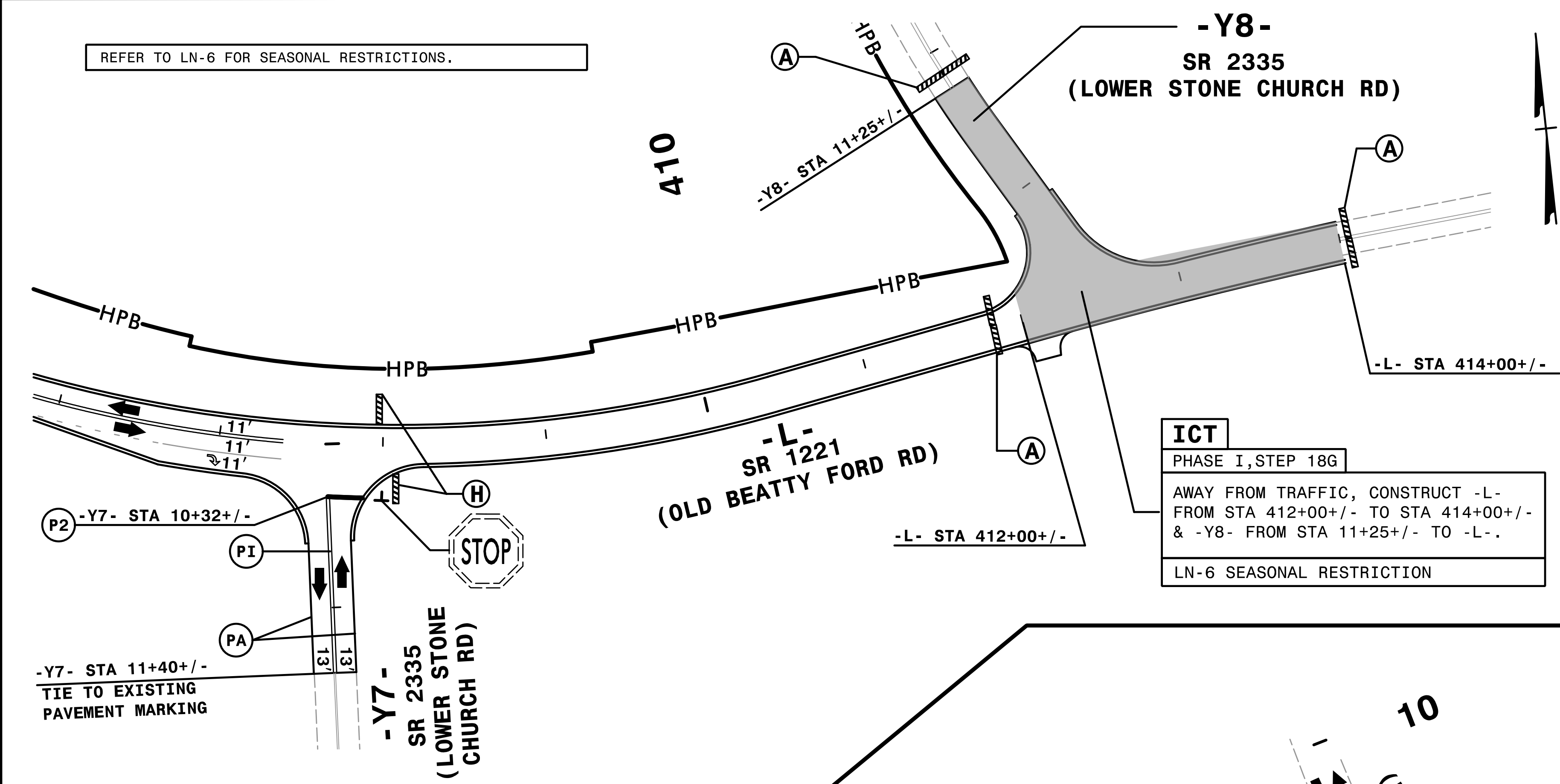
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DOCUMENT NOT CONSIDERED FINAL
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**PHASE I
STEP 18
DETAILS**

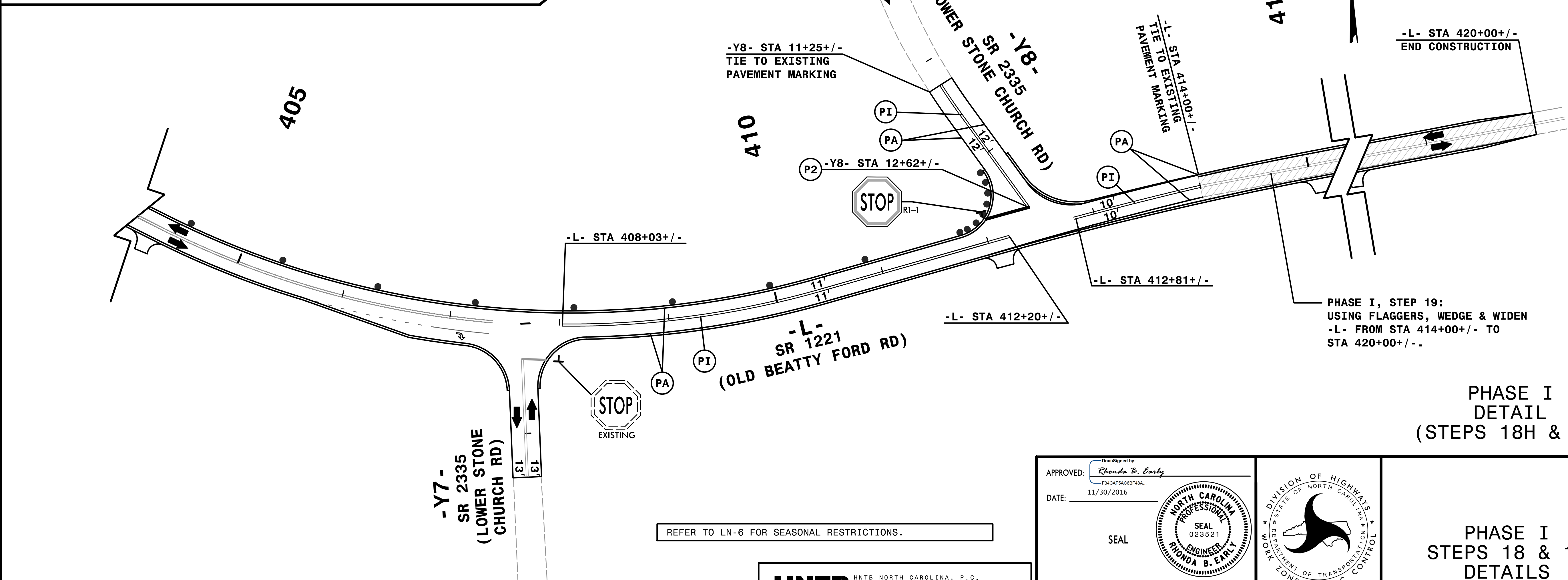
REFER TO LN-6 FOR SEASONAL RESTRICTIONS.



REFER TO DETOUR DETAIL #6A (TMP-2G) FOR OFFSITE DETOUR ROUTE AND INCLUDE ADDITIONAL ADVANCE WARNING SIGNS AND DEVICES AS SHOWN ON ROADWAY STANDARD DRAWING 1101.03 (1 & 2 OF 9).

ICT
 PHASE I, STEP 18G
 AWAY FROM TRAFFIC, CONSTRUCT -L- FROM STA 412+00+/- TO STA 414+00+/- & -Y8- FROM STA 11+25+/- TO -L-.
 LN-6 SEASONAL RESTRICTION

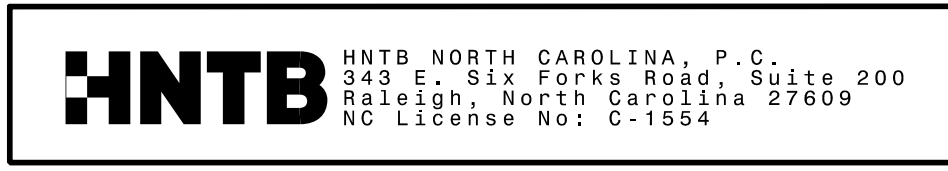
PHASE I
 DETAIL
 (STEP 18G)



PHASE I, STEP 19:
 USING FLAGGERS, WEDGE & WIDEN
 -L- FROM STA 414+00+/- TO STA 420+00+/-.

PHASE I
 DETAIL
 (STEPS 18H & 19)

REFER TO LN-6 FOR SEASONAL RESTRICTIONS.



APPROVED: Rhonda B. Early
 DATE: 11/30/2016
 SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 023521
 RHONDA B. EARLY



PHASE I
 STEPS 18 & 19
 DETAILS

11/5/28 AM
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