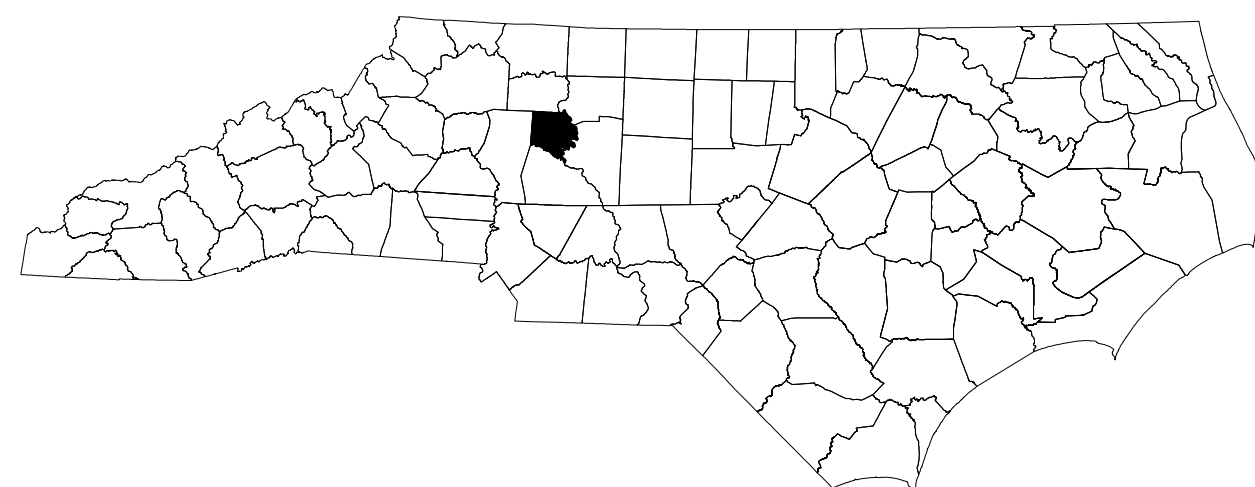


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

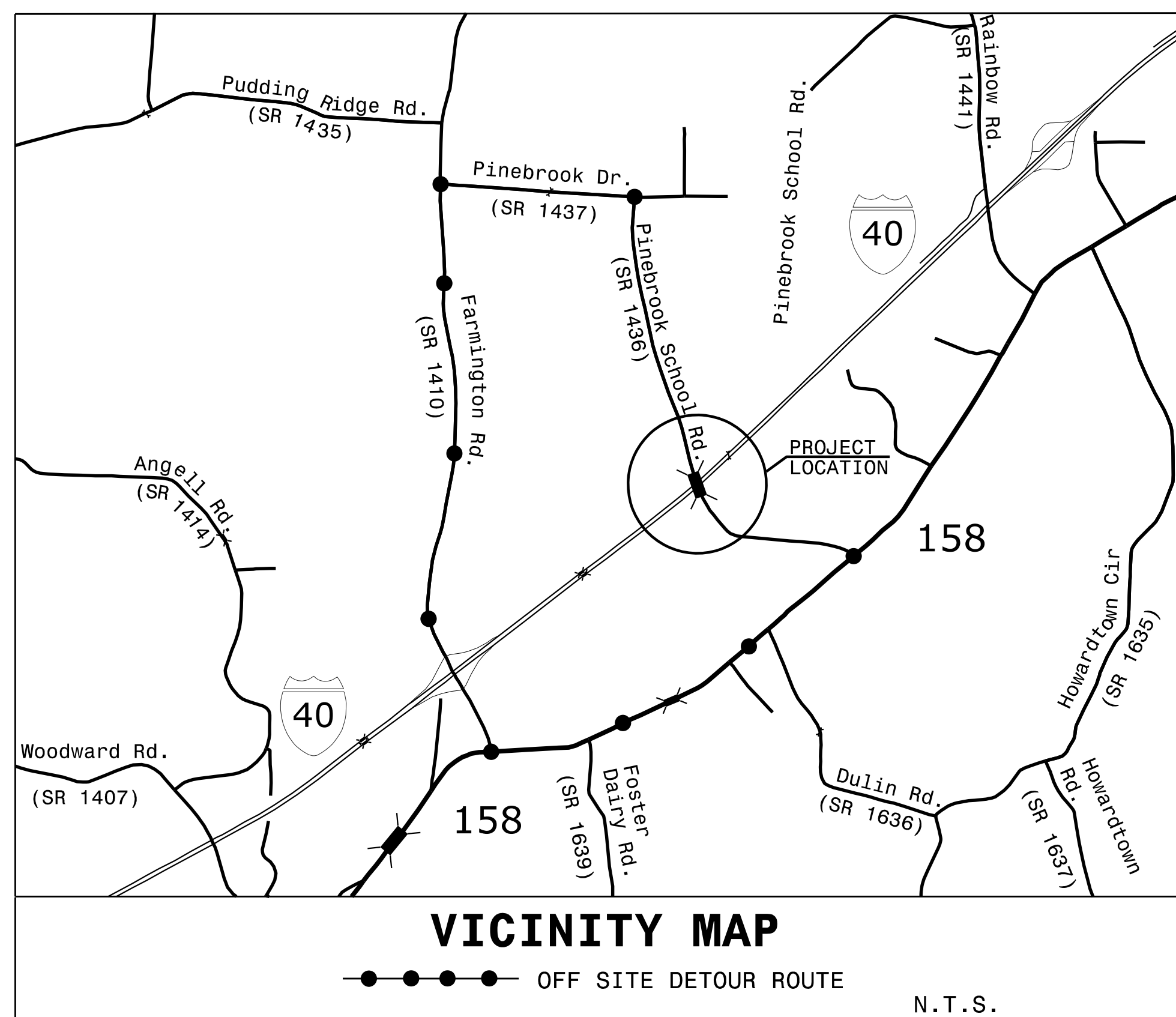
DAVIE COUNTY

DIVISION 9



LOCATION: REPLACEMENT OF BRIDGE NO. 76 ON
SR 1436 (PINEBROOK SCHOOL RD)

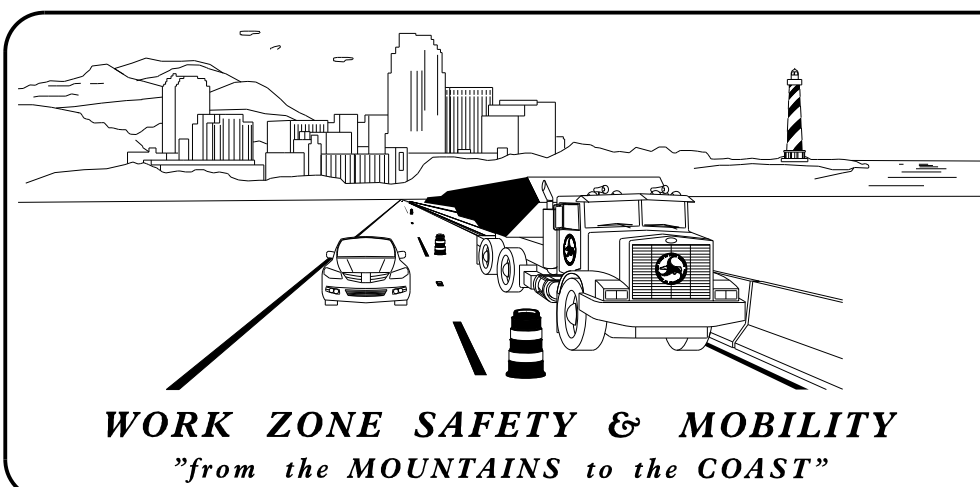
TYPE OF WORK: GRADING, DRAINAGE, PAVING,
AND STRUCTURE



INDEX OF SHEETS	
SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	ROADWAY STANDARD DRAWINGS & LEGEND
TMP-1B & TMP-1C	GENERAL NOTES, TRAFFIC MANAGEMENT STRATEGY, AND PHASING
TMP-2	SR 1436 (PINEBROOK SCHOOL RD) ROAD CLOSURE & DETOUR ROUTE
TMP-3	CLOSURE, SIGN, AND DEVICE LEGEND
TMP-4	SPECIAL SIGN DESIGN
TMP-5	I-40 DETOUR ROUTE
TMP-6	STEP 5
TMP-7	STEP 6
TMP-8	STEPS 8-14
TMP-9 & TMP-10	I-40 SECTION VIEWS

SHEET NO.
TMP-1

12/20/2024
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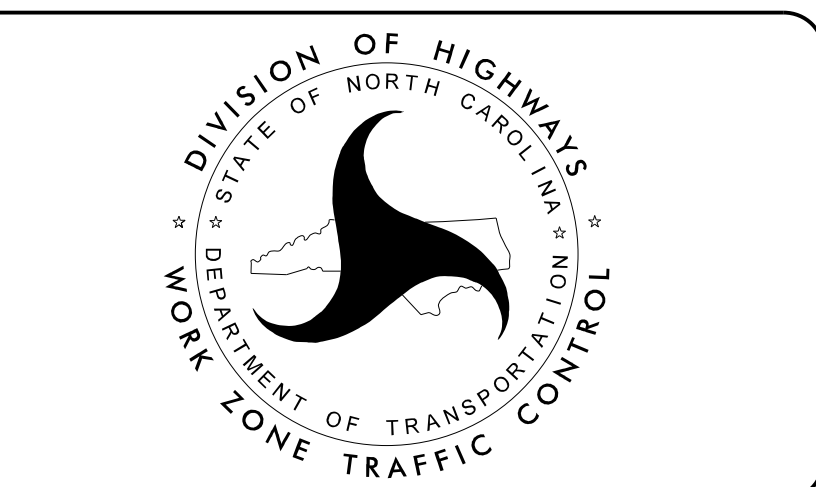


PLANS PREPARED BY:
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TAFADZWA MAZARURA

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DIV 9 DIVISION DESIGN
CONSTRUCT ENGINEER



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APPROVED: Zachary Thornton
E4D10EEB0CB48A

DATE: 12/21/2024

SEAL

TIP PROJECT: BR-0152

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 ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.06	WARNING SIGNS FOR BLASTING ZONES
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	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	TRUCK MOUNTED ATTENUATOR
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXITS AND ENTRANCE RAMP
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
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
1205.11	PAVEMENT MARKINGS - RAILROAD CROSSINGS
1205.12	PAVEMENT MARKINGS - BRIDGES
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1205.14	PAVEMENT MARKINGS - ROUNDABOUTS
1205.15	PAVEMENT MARKINGS - REDUCED CONFLICT INTERSECTIONS
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
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION
1267.01	FLEXIBLE DELINEATORS - INSTALLATION
1267.02	FLEXIBLE DELINEATORS - SPACING TABLES
1267.03	FLEXIBLE DELINEATORS - INTERCHANGE PLACEMENT

LEGEND

GENERAL

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

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY
- PORTABLE

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

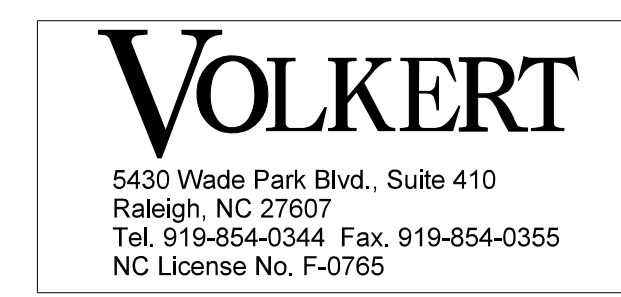
PAVEMENT MARKERS

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

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

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DocuSigned by:
Zachary Thornton
E4D10EEB0CBB48A

APPROVED: _____
DATE: 12/21/2024

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ROADWAY STANDARD
DRAWINGS & LEGEND

GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAILS 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 NAMES	TIME RESTRICTIONS
I-40 (EASTBOUND)	MONDAY THRU THURSDAY, 6:00 AM - 7:00 PM FRIDAY THRU SUNDAY, 6:00 AM - 9:00 PM
I-40 (WESTBOUND)	MONDAY THRU THURSDAY, 6:00 AM - 7:00 PM FRIDAY THRU SUNDAY, 6:00 AM - 9:00 PM

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

ROAD NAMES
I-40

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 AM DECEMBER 31st TO 9:00 PM JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 PM THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 6:00 AM THURSDAY AND 7:00 PM MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 AM FRIDAY TO 7:00 PM TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 AM THE DAY BEFORE INDEPENDENCE DAY AND 7:00 PM THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN BETWEEN THE HOURS OF 6:00 AM THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 PM THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 AM FRIDAY AND 7:00 PM TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 AM TUESDAY TO 7:00 PM MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 AM THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 PM THE FOLLOWING TUESDAY THE WEEK AFTER CHRISTMAS.

C. DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAMES	TIME RESTRICTIONS
I-40 BOTH DIRECTIONS	FOR PLACING GIRDERS: MONDAY THRU SUNDAY, 6:00 AM - 11:00 PM
I-40 ONE DIRECTION	FOR ALL OTHER OVERHEAD WORK: MONDAY THRU SUNDAY, 6:00 AM - 11:00 PM

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, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.
- J. DO NOT INSTALL MORE THAN 2 SIMULTANEOUS LANE CLOSURES IN ANY ONE DIRECTION ON I-40.
- K. 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.
- L. PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- M. 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.
- N. 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) 1000 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- P. 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

- Q. 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.

- R. 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.

- S. ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

- T. INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 1000 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC BARRIER

- U. INSTALL TEMPORARY BARRIER ACCORDING TO THE TRANSPORTATION MANAGEMENT PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION PROCEED IN A CONTINUOUS MANNER TO COMPLETE THE PROPOSED WORK IN THAT LOCATION UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE.

ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION AND NO WORK IS PERFORMED BEHIND THE TEMPORARY BARRIER FOR A PERIOD LONGER THAN TWO (2) MONTHS, REMOVE / RESET TEMPORARY BARRIER AT NO COST TO THE DEPARTMENT UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS, TEMPORARY BARRIER IS PROTECTING A HAZARD, OR AS DIRECTED BY THE ENGINEER.

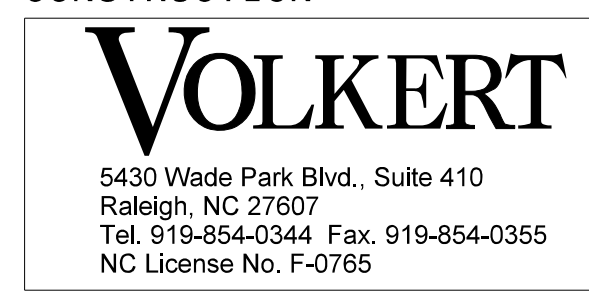
INSTALL TEMPORARY BARRIER WITH THE TRAFFIC FLOW BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE TEMPORARY BARRIER AGAINST THE TRAFFIC FLOW BEGINNING WITH THE DOWNSTREAM SIDE OF TRAFFIC.

INSTALL AND SPACE DRUMS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP THE SECTION OF THE ROADWAY CLOSED UNTIL THE TEMPORARY BARRIER CAN BE PLACED OR AFTER THE TEMPORARY BARRIER IS REMOVED.

- V. PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER AT ALL TIMES DURING THE INSTALLATION AND REMOVAL OF THE BARRIER BY EITHER A TRUCK MOUNTED ATTENUATOR (MAXIMUM 72 HOURS) OR A TEMPORARY CRASH CUSHION.

PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER FROM ONCOMING TRAFFIC AT ALL TIMES BY A TEMPORARY CRASH CUSHION UNLESS THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER IS OFFSET FROM ONCOMING TRAFFIC AS FOLLOWS OR AS SHOWN IN THE PLANS: (SEE ALSO 1101.05)

POSTED SPEED LIMIT	MINIMUM OFFSET
40 OR LESS	15 FT
45 - 50	20 FT
55	25 FT
60 MPH or HIGHER	30 FT



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Zachary Thornton
APPROVED: E4D10EEB0CBB8A
DATE: 12/21/2024
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GENERAL NOTES, TRAFFIC
MANAGEMENT STRATEGY, AND
PHASING

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TRAFFIC CONTROL DEVICES

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

PAVEMENT MARKING AND MARKERS

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

MISCELLANEOUS

- BB. LAW ENFORCEMENT SHALL BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.
- CC. IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S 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) AND RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

PHASING

- STEP 1 - INSTALL CMS 2 BOARDS 14 DAYS PRIOR TO ROAD CLOSURE USING TMP-2.
- STEP 2 - INSTALL WORK ZONE ADVANCE WARNING SIGNS ACCORDING TO RSD 1101.01.
- STEP 3 - INSTALL AND COVER ALL OFF-SITE DETOUR SIGNS AS SHOWN ON TMP-2 AND TMP-5.
- STEP 4 - USING RSD 1101.03 SHEET 1 OF 9, AND TMP-2 THROUGH TMP-4 CLOSE PINEBROOK SCHOOL RD (SR 1436) TO THROUGH TRAFFIC.

INSTALL CMS BOARDS ALONG US 158 DETOUR ROUTES AS SHOWN ON TMP-5 (ACTIVATE ONLY DURING I-40 CLOSURES. SEE STEPS 7 & 10).
- STEP 5 - USING NIGHTLY LANE CLOSURE, RSD 1101.02 SHEETS 4 & 5 OF 19, TMP-6 AND TMP-8, SHIFT I-40 TRAFFIC TO TEMPORARY PATTERN. BEGIN DEMO OF BRIDGE DECK STARTING FROM THE MIDDLE.
- STEP 6 - USING NIGHTLY LANE CLOSURE AND RSD 1101.04 SHEET 1 OF 2 AND RSD 1101.02 SHEET 4 OF 19 INSTALL PCB THEN SHIFT I-40 TRAFFIC TO INSIDE LANES. FINISH DEMO OF BRIDGE DECK. SEE TMP-8.
- STEP 7 - ACTIVATE CMS BOARDS AND UNCOVER ALL SIGNS RELATIVE TO THE I-40 CLOSURE DETOUR AS NEEDED FOR OVERHEAD WORK (SEE GENERAL NOTE C). USING NIGHTLY ROAD CLOSURES, RSD 1101.02 SHEET 8 OF 19, AND RSD 1101.03 SHEET 7 OF 9 TO CLOSE -Y- (I-40) AND DETOUR TRAFFIC AS SHOWN ON TMP-5 THEN REMOVE EXISTING GIRDERS.

AT THE END OF EACH WORK NIGHT RETURN TRAFFIC ON I-40 TO A NORMAL TRAFFIC PATTERN. COVER ALL SIGNS AND DEACTIVATE CMS BOARDS ON I-40 AND I-40 DETOUR. REPEAT STEP 7 UNTIL ALL GIRDERS HAVE BEEN REMOVED FROM EXISTING BRIDGE.
- STEP 8 - REMOVE THE EXISTING MEDIAN BENT AND FOOTING BEHIND PCB. SEE TMP-9.

USING NIGHTLY LANE CLOSURES AND RSD 1101.02 SHEET 4 OF 19, WHERE NECESSARY, REMOVE THE EXISTING OUTSIDE SHOULDER BENTS AND END BENTS. SEE TMP-7 & TMP-9.
- STEP 9 - USING RSD 1101.04 SHEET 1 OF 2 AND TMP-9, CONSTRUCT PROPOSED END BENTS AND MEDIAN BENTS, OUTSIDE AND MEDIAN WIDENING OF -Y- (I-40). FOR OUTSIDE WIDENING CONSTRUCT FDPS, UP TO, BUT NOT INCLUDING THE FINAL SURFACE COURSE. FOR INSIDE WIDENING CONSTRUCT FDPS AND PLACE MEDIAN BARRIERS. SEE ROADWAY PLANS FOR DETAILS.
- STEP 10 - USING NIGHTLY LANE CLOSURES AND RSD 1101.02 SHEET 4 OF 19 AND TMP-8, CONSTRUCT THE FINAL LAYER OF SURFACE COURSE FOR OUTSIDE WIDENING OF -Y- (I-40).
- STEP 11 - ACTIVATE CMS BOARDS AND UNCOVER ALL SIGNS RELATIVE TO THE I-40 CLOSURE DETOUR AS NEEDED FOR OVERHEAD WORK (SEE GENERAL NOTE C). CONSTRUCT PROPOSED BRIDGE, USING NIGHTLY ROAD CLOSURES AND RSD 1101.03 SHEET 7 OF 9 TO CLOSE -Y- (I-40) AND DETOUR TRAFFIC TO DETOUR ROUTE SHOWN ON TMP-5.

AT THE END OF EACH WORK NIGHT RETURN TRAFFIC ON I-40 TO A NORMAL TRAFFIC PATTERN. COVER ALL SIGNS AND DEACTIVATE CMS BOARDS ON I-40 AND I-40 DETOUR. REPEAT STEP 11 UNTIL PROPOSED BRIDGE CONSTRUCTION IS COMPLETE.

- STEP 12 - USING NIGHTLY LANE CLOSURES AND RSD 1101.02 SHEET 4 OF 19. INSTALL PAVEMENT MARKINGS IN FINAL PATTERN ON -Y- (I-40) AS SHOWN IN PMP PLANS.
- STEP 13 - AWAY FROM TRAFFIC AND USING RSD 1101.02 SHEET 1 OF 19, CONSTRUCT -L- STA. 15+00 TO 25+00, UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE.
- STEP 14 - AWAY FROM TRAFFIC AND USING RSD 1101.02 SHEET 1 OF 19 INSTALL FINAL LAYER OF SURFACE COURSE ON -L- FROM 15+00 TO 25+00. INSTALL FINAL PAVEMENT MARKINGS IN FINAL PATTERN AS SHOWN IN PMP PLANS. REMOVE ALL OFF-SITE DETOUR SIGNS AND DEVICES THEN OPEN PINEBROOK SCHOOL RD TO TRAFFIC.

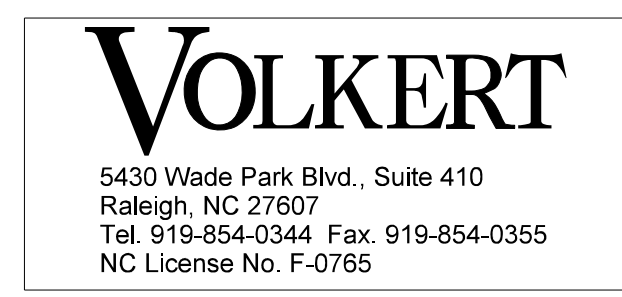
LOCAL NOTES

- A) NOTIFY THE FOLLOWING AUTHORITIES ONE MONTH PRIOR TO ANY TRAFFIC PATTERN ALTERATION:
- LOCAL NC CONTACTS:
JOHN P RHYNE, PE
DIVISION MAINTENANCE ENGINEER
OFFICE: 336-747-7800
- J. P. COUCH, PE
DIVISION TRAFFIC ENGINEER
OFFICE: 336-747-7800
- JEREMY MILLER
DAVIE COUNTY SCHOOL TRANSPORTATION SERVICES DIRECTOR
OFFICE: 336-751-5921
- JOSEPH ASHBURN
DAVIE COUNTY EMERGENCY MANAGEMENT DIRECTOR
OFFICE: 336-753-6160

TRAFFIC MANAGEMENT STRATEGY

- PINEBROOK SCHOOL RD
- USE OFF-SITE DETOUR TO REMOVE EXISITNG BRIDGE AND CONSTRUCT PROPOSED BRIDGE AND APPROACHES.
- LOCAL ACCESS TO ALL RESIDENCES AND BUSINESSES SHALL BE MAINTAINED BETWEEN CLOSURE POINTS AT ALL TIMES DURING CONSTRUCTION.
- I-40
- USE A COMBINATION OF OFF-SITE DETOUR, ROADWAY STANDARD DRAWINGS, AND TRAFFIC CONTROL PLANS FOR ALL OVERHEAD WORK, PCB, AND LANE CLOSURES.

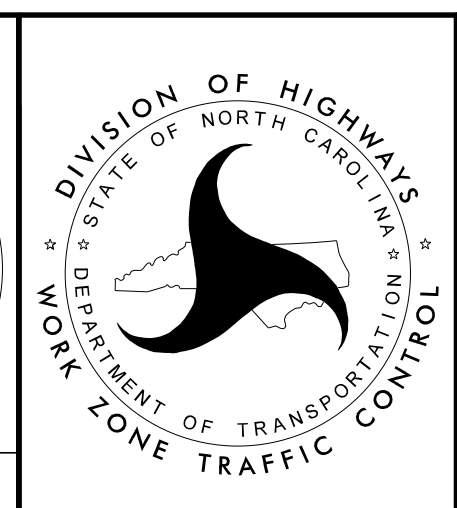
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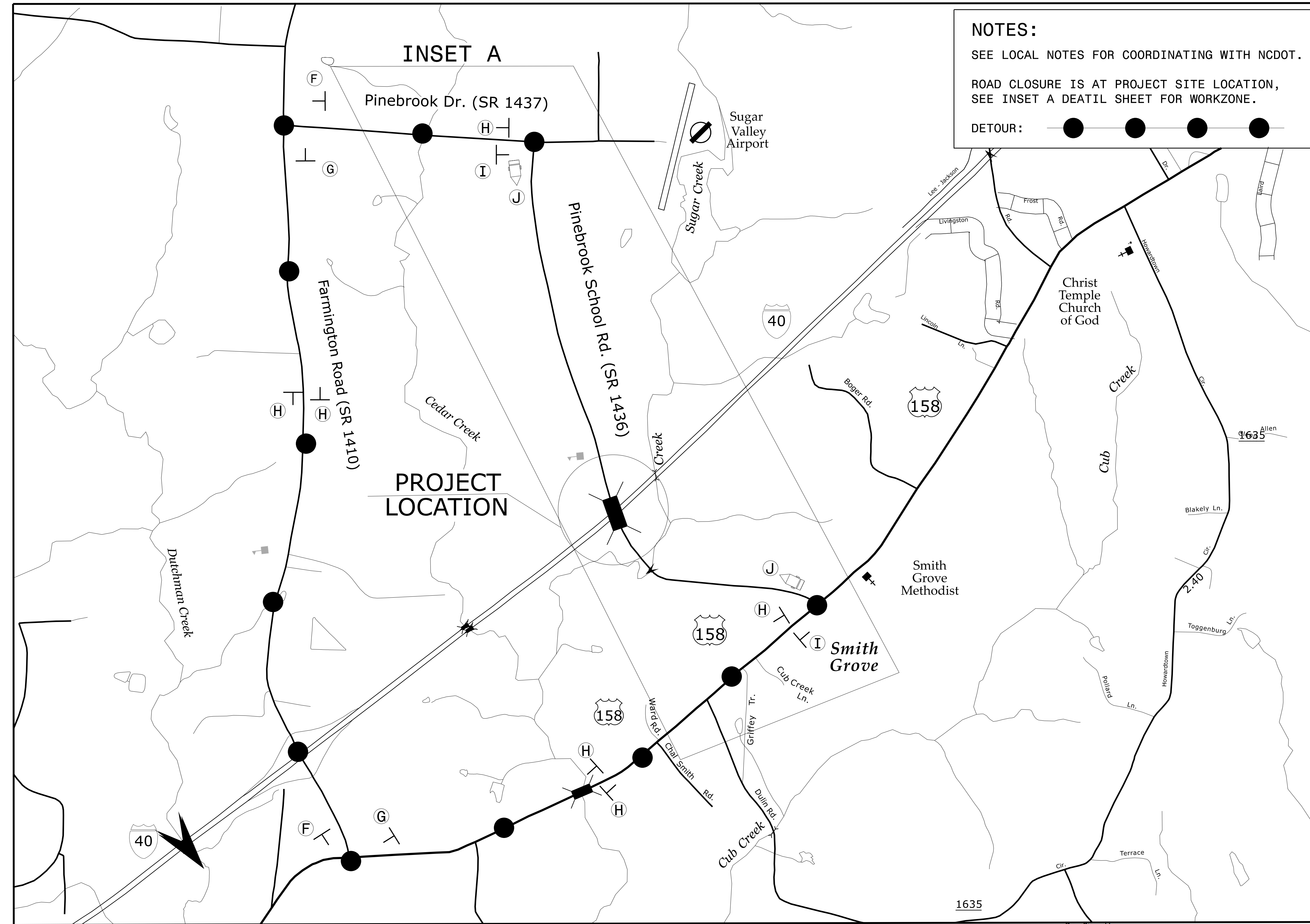
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Zachary Thornton
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DATE: 12/21/2024

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GENERAL NOTES, TRAFFIC MANAGEMENT STRATEGY, AND PHASING

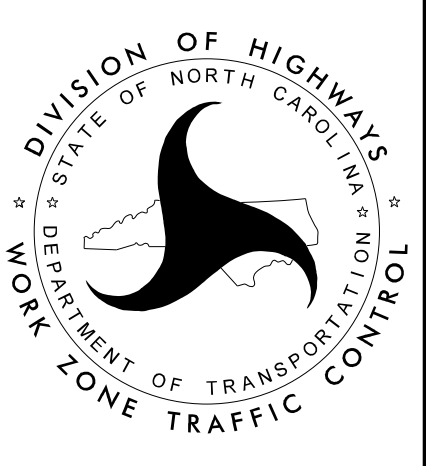
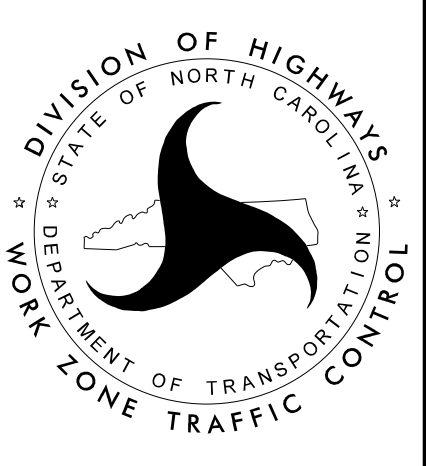


NOTES:
 SEE LOCAL NOTES FOR COORDINATING WITH NCDOT.
 ROAD CLOSURE IS AT PROJECT SITE LOCATION,
 SEE INSET A DEATIL SHEET FOR WORKZONE.
 DETOUR: ●—●—●—●

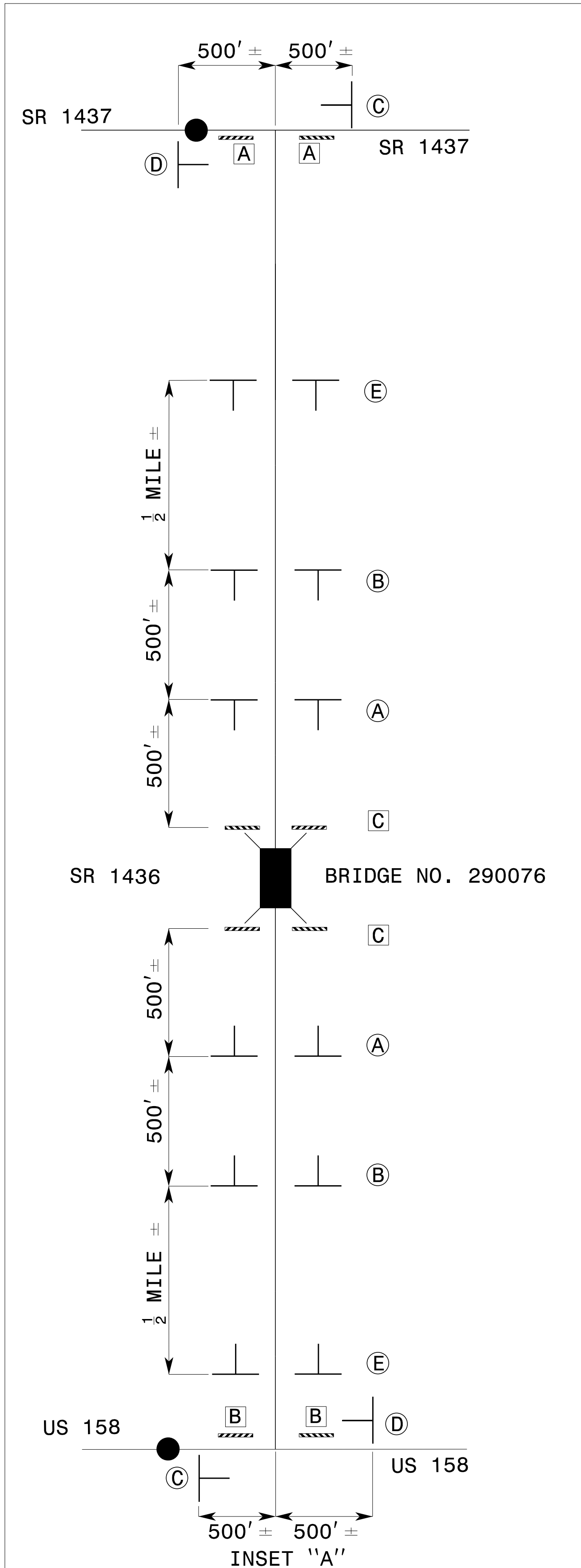
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 User: zachary.thornton

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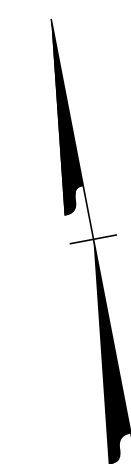


**SR 1436 (PINEBROOK SCHOOL ROAD)
 ROAD CLOSURE AND
 DETOUR ROUTE**



REFER TO ROADWAY STANDARD DRAWING 1101.03, SHEET 1 OF 9 FOR APPLICABLE NOTES.

* CONTRACTOR SHALL INSTALL TURNAROUNDS AS DIRECTED BY ENGINEER



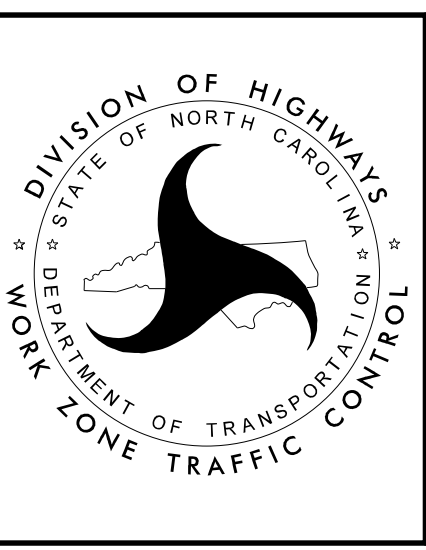
<p>R11-4 60'' x 30'' ROAD CLOSED TO THRU TRAFFIC DETOUR M4-10R 48'' x 18'' TYPE III BARRICADE A</p>	<p>R11-4 60'' x 30'' ROAD CLOSED TO THRU TRAFFIC DETOUR M4-10L 48'' x 18'' TYPE III BARRICADE B</p>	<p>R11-2 48'' x 30'' ROAD CLOSED TYPE III BARRICADE C</p>						
<p>W20-3 48'' x 48'' ROAD CLOSED 500 FT A</p>	<p>W20-3 48'' x 48'' ROAD CLOSED 1000 FT B</p>	<p>W20-3 48'' x 48'' ROAD CLOSED AHEAD NEXT LEFT SP-4L 42'' x 12'' C</p>	<p>W20-3 48'' x 48'' ROAD CLOSED AHEAD NEXT RIGHT SP-4R 42'' x 12'' D</p>	<p>W20-3 48'' x 48'' ROAD CLOSED AHEAD E</p>				
<p>SSD 36'' x 36'' PINEBROOK SCHOOL ROAD DETOUR M4-8 24'' x 12'' M6-3 21'' x 15'' F</p>	<p>SSD 36'' x 36'' PINEBROOK SCHOOL ROAD DETOUR M4-8 24'' x 12'' M6-3 21'' x 15'' G</p>	<p>SSD 36'' x 36'' PINEBROOK SCHOOL ROAD DETOUR M4-8 24'' x 12'' M6-3 21'' x 15'' H</p>	<p>M4-8 A 24'' x 18'' END DETOUR I</p>	<p>14 DAYS PRIOR TO CLOSURE</p> <table border="1"> <tr> <td>MESSAGE NO. 1</td> <td>MESSAGE NO. 2</td> </tr> <tr> <td>SR 1436 TO CLOSE XX-XX-XX</td> <td>SR 1436 TO CLOSE XX-XX-XX</td> </tr> </table> <p>CHANGEABLE MESSAGE SIGN (SHORT TERM) J</p>	MESSAGE NO. 1	MESSAGE NO. 2	SR 1436 TO CLOSE XX-XX-XX	SR 1436 TO CLOSE XX-XX-XX
MESSAGE NO. 1	MESSAGE NO. 2							
SR 1436 TO CLOSE XX-XX-XX	SR 1436 TO CLOSE XX-XX-XX							

11/6/2024
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DIVISION OF HIGHWAYS
 DEPARTMENT OF TRANSPORTATION
 WORK ZONE TRAFFIC CONTROL
CLOSURE, SIGN, AND DEVICE LEGEND

SIGN NUMBER: name
 TYPE: STATIONARY
 QUANTITY: SEE PLANS
 SIGN WIDTH: 3'-0"
 HEIGHT: 3'-0"
 TOTAL AREA: 9.0 Sq.Ft.
 BORDER TYPE: INSET
 RECESS: 0"
 WIDTH: 0.75"
 RADII: 2.25"
 NO. Z BARS:
 LENGTH:

BACKG COLOR: Fluorescent Orange
 COPY COLOR: Black
 SYMBOL

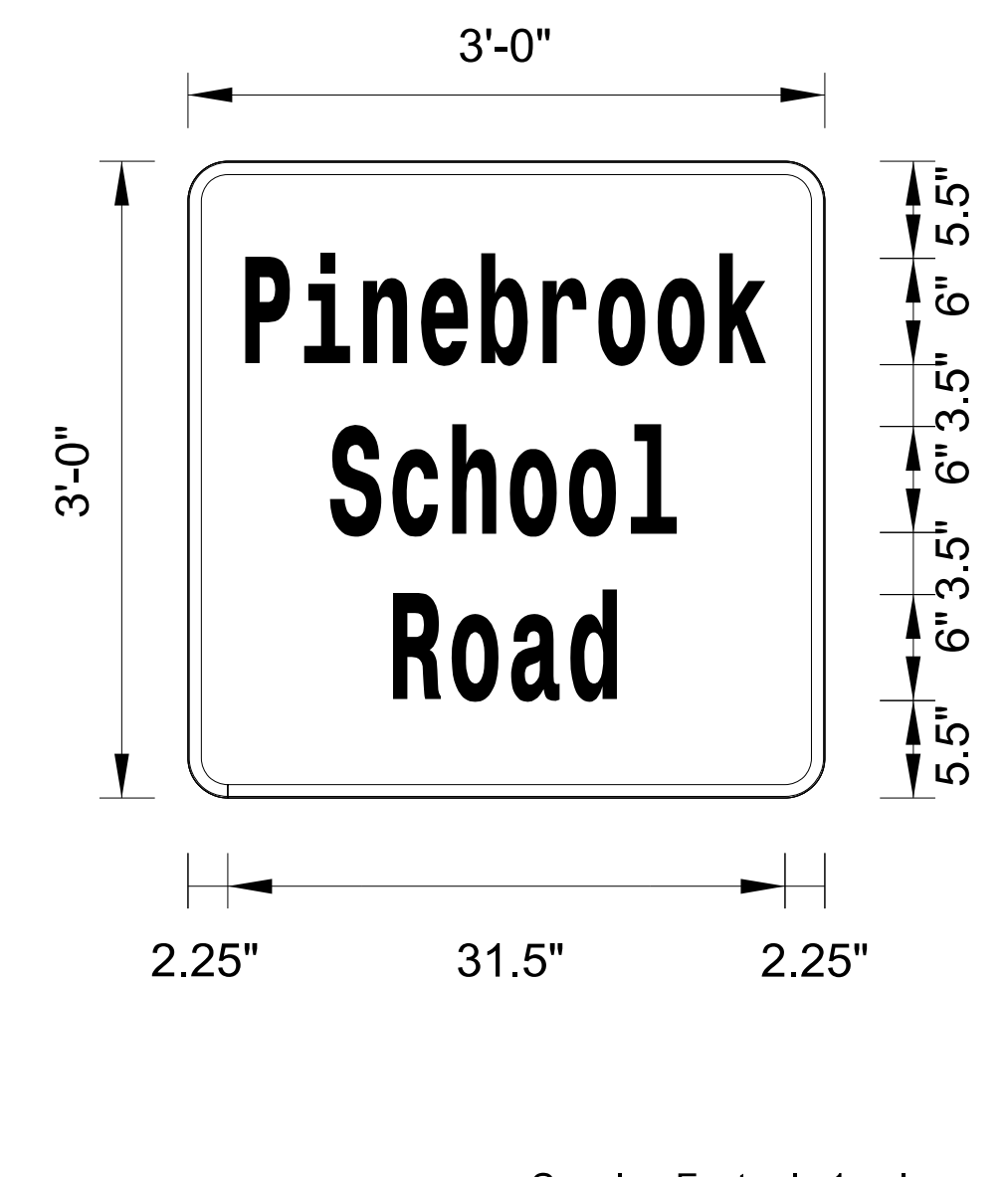
X	Y	WID	HT

MAT'L: 0.080" (2.0 mm) ALUMINUM

DESIGN BY: TAFADZWA MAZARURA
 PROJECT ID: BR-0152

CHECKED BY: CURTIS HALL
 LOCATION: OFFSITE DETOUR

Aug 02, 2023
 DIV: 9



- USE NOTES: 1,2
- Legend and border shall be direct applied black non-reflective sheeting.
 - Background shall be NC GRADE B fluorescent orange retroreflective sheeting.

LETTER POSITIONS

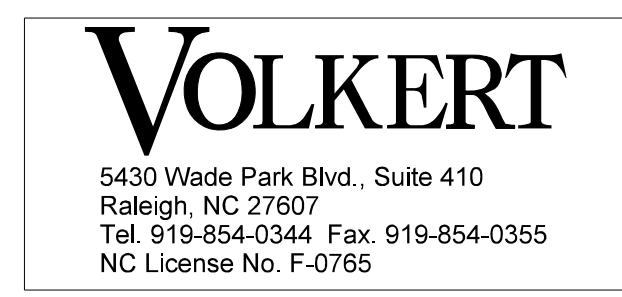
Letter locations are panel edge to lower left corner

	P	i	n	e	b	r	o	o	k														Series/Size Text Length	
	2.25	6.7	8.6	12.5	16.4	20.3	22.8	26.6	30.5														C 2000 31.5	
																								C 2000 20.3
																								C 2000 14.5

FILENAME: BR-0152 DAVIE TMP 04 SPECIAL SIGN

NORTH CAROLINA D.O.T. SIGN DETAIL

11/6/2024
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 User: zachary.thornton



DocuSigned by:
Zachary Thornton

APPROVED: [Signature]
 DATE: 12/21/2024

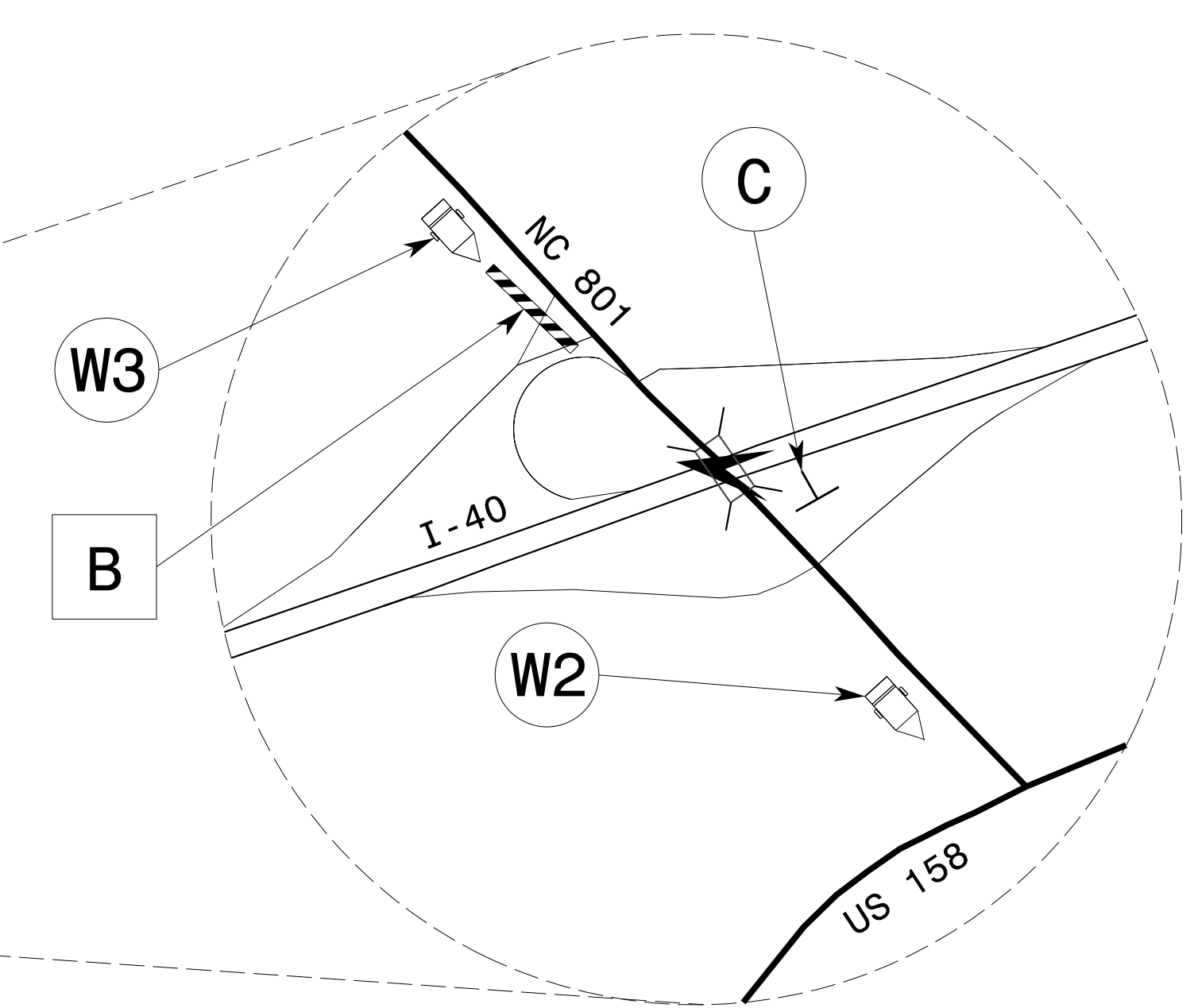
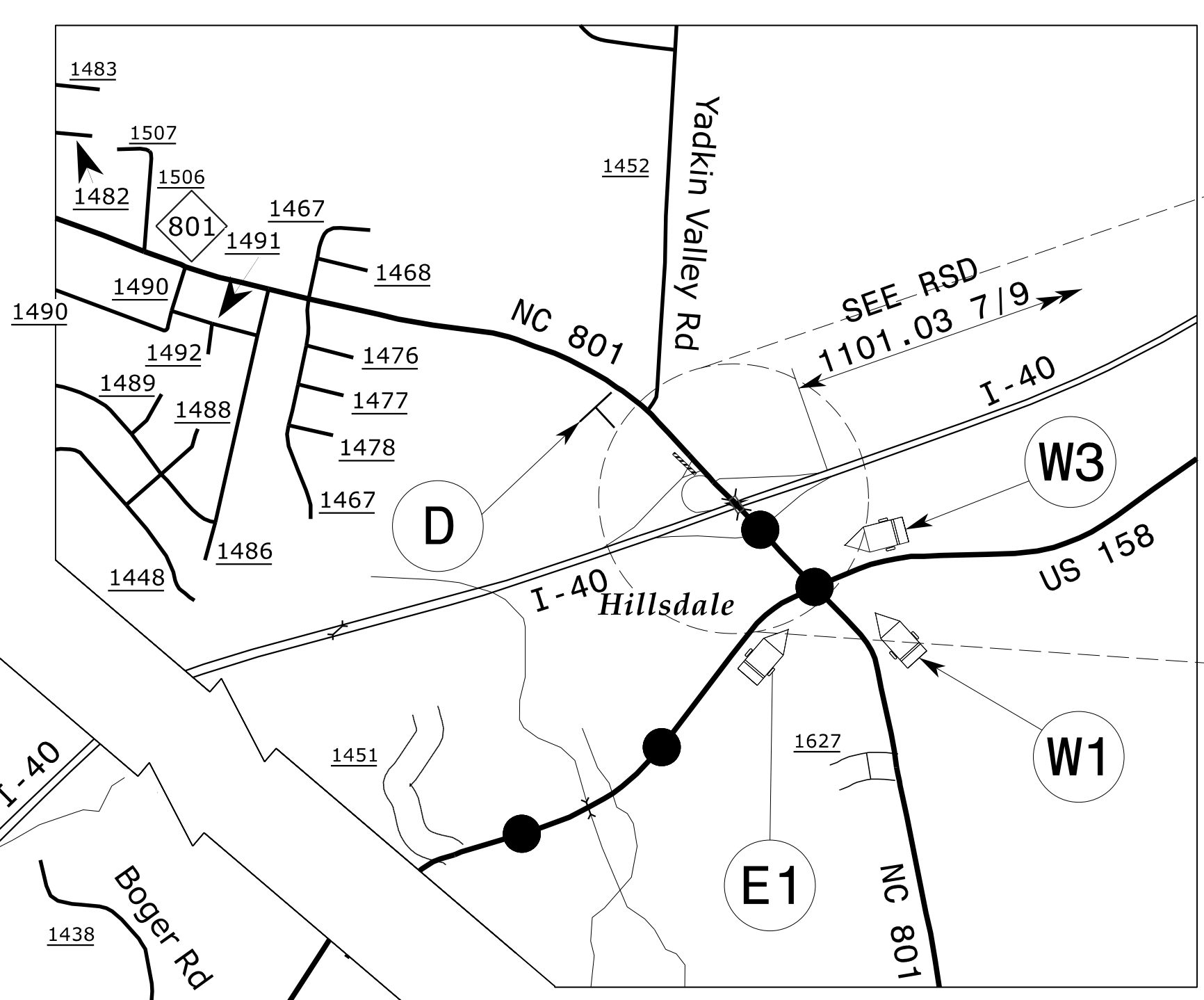
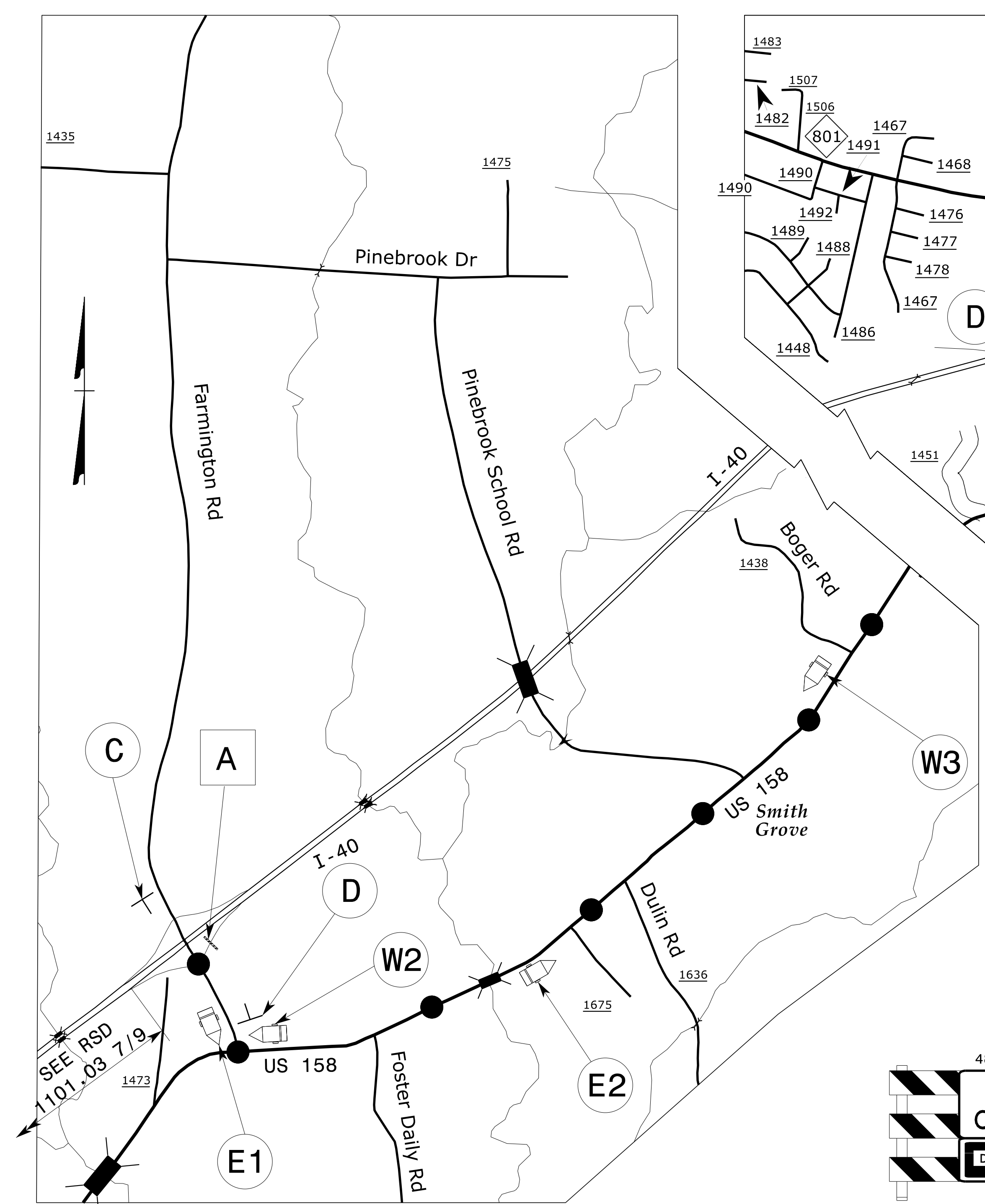
SEAL

PROFESSIONAL ENGINEER
 NORTH CAROLINA
 SEAL
 047243
 ZACHARY J. THORNTON

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SPECIAL
 SIGN DESIGN



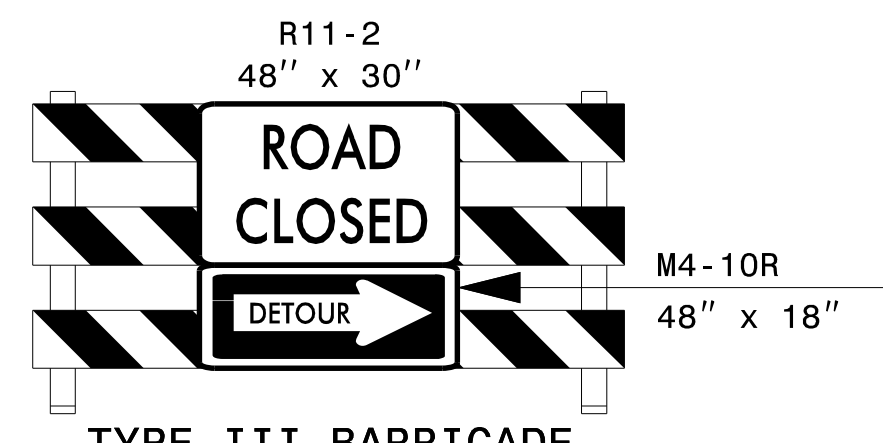
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	CHANGEABLE MESSAGE SIGN (SHORT TERM)			CHANGEABLE MESSAGE SIGN (SHORT TERM)	
E2	MESSAGE NO. 1 I-40 EB DETOUR ----->	MESSAGE NO. 2 KEEP STRAIGHT	W2	MESSAGE NO. 1 I-40 WB DETOUR ----->	MESSAGE NO. 2 I-40 WB DETOUR ----->
	CHANGEABLE MESSAGE SIGN (SHORT TERM)			CHANGEABLE MESSAGE SIGN (SHORT TERM)	
W3	MESSAGE NO. 1 I-40 WB DETOUR	MESSAGE NO. 2 KEEP STRAIGHT	W3	MESSAGE NO. 1 I-40 WB DETOUR	MESSAGE NO. 2 KEEP STRAIGHT
	CHANGEABLE MESSAGE SIGN (SHORT TERM)			CHANGEABLE MESSAGE SIGN (SHORT TERM)	



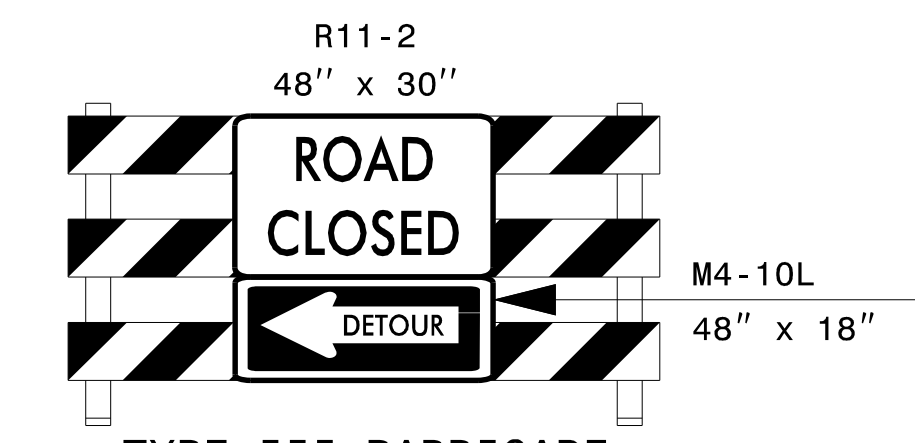
W20-3 48" X 48"
SP-4L 42" X 12"
C



W20-3 48" X 48"
SP-4R 42" X 12"
D



R11-2 48" x 30"
M4-10R 48" x 18"
TYPE III BARRICADE
A



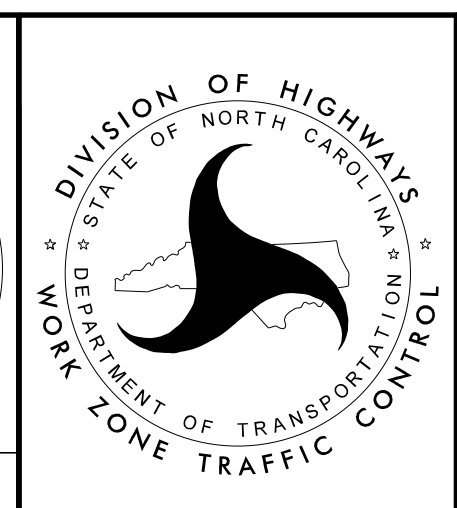
R11-2 48" x 30"
M4-10L 48" x 18"
TYPE III BARRICADE
B

NOTES:
 SEE LOCAL NOTES FOR COORDINATING WITH NCDOT.
 ROAD CLOSURE IS AT PROJECT SITE LOCATION, SEE INSET A DETAIL SHEET FOR WORKZONE.
 DETOUR: ● ● ● ●

11/7/2024
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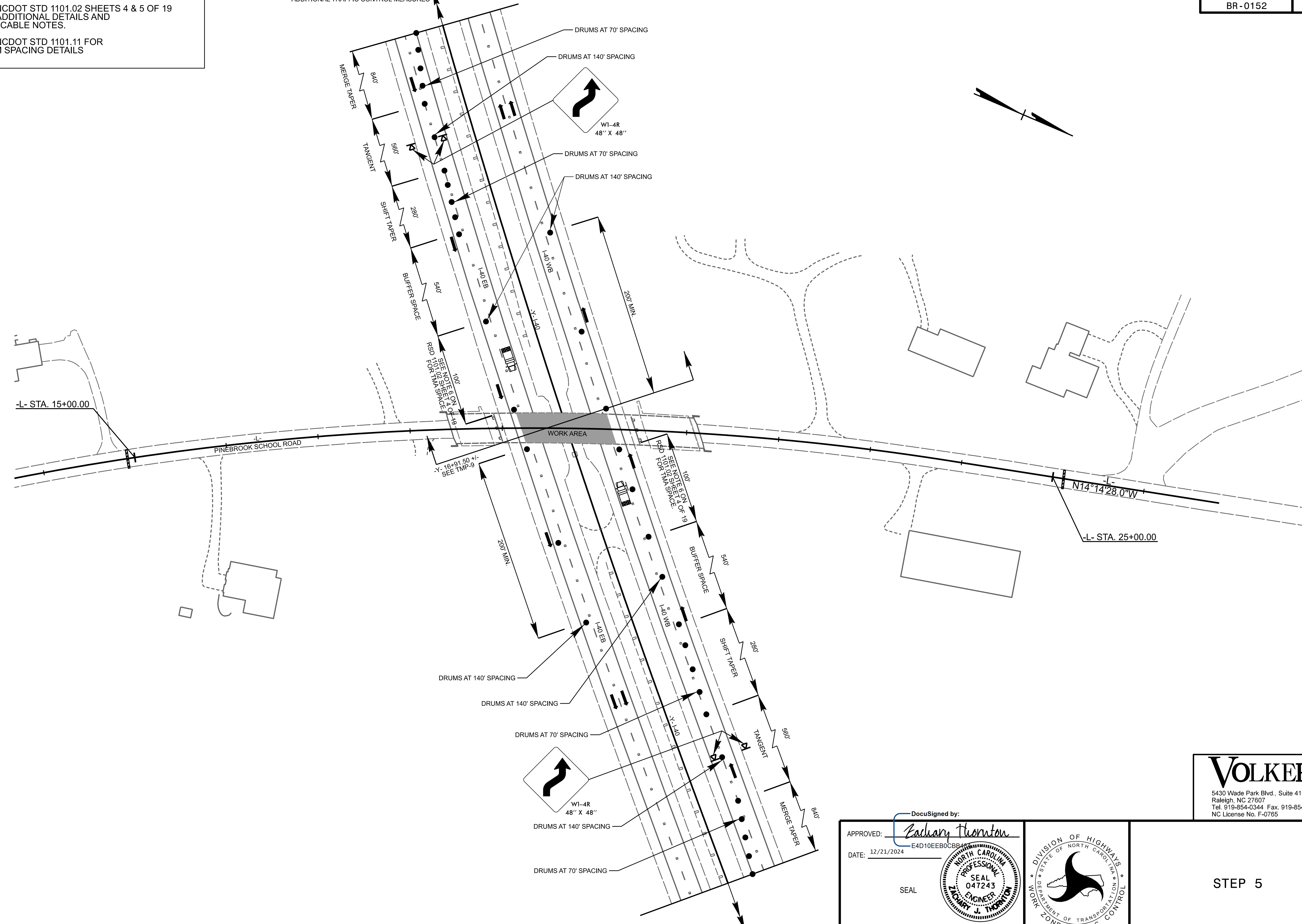
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**I-40
 DETOUR ROUTE**

NOTES:
 SEE NCDOT STD 1101.02 SHEETS 4 & 5 OF 19 FOR ADDITIONAL DETAILS AND APPLICABLE NOTES.
 SEE NCDOT STD 1101.11 FOR DRUM SPACING DETAILS

SEE RDY STD 1101.02 SHEET 4 OF 19 FOR ADDITIONAL TRAFFIC CONTROL MEASURES



\$\$\$\$\$SYTIME\$\$\$\$\$
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 \$\$\$USERNAM\$\$\$\$\$

SEE RDY STD 1101.02 SHEET 4 OF 19 FOR ADDITIONAL TRAFFIC CONTROL MEASURES

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 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 047243
 CHARLES J. THORNTON



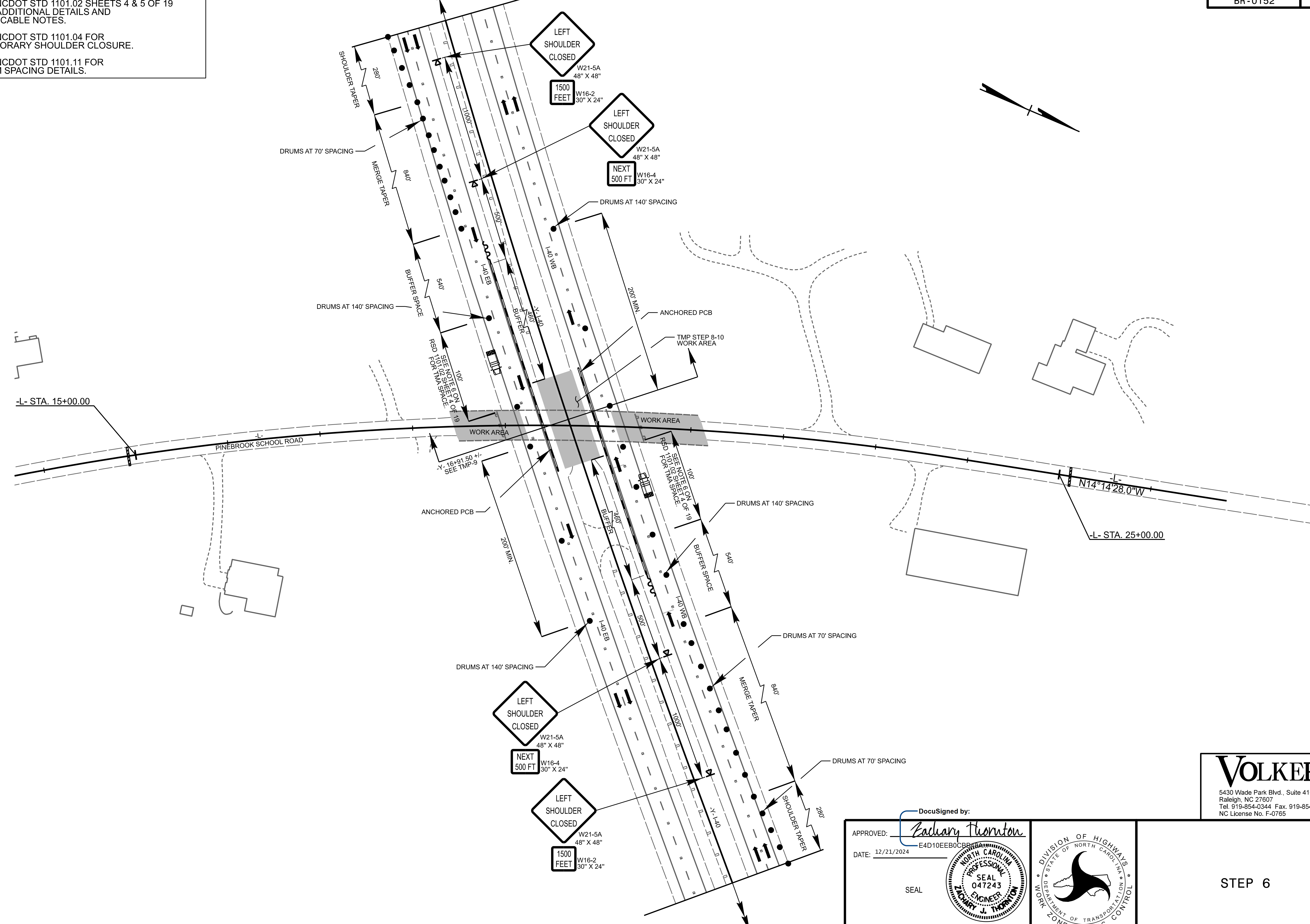
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STEP 5

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NOTES:
 SEE NCDOT STD 1101.02 SHEETS 4 & 5 OF 19 FOR ADDITIONAL DETAILS AND APPLICABLE NOTES.
 SEE NCDOT STD 1101.04 FOR TEMPORARY SHOULDER CLOSURE.
 SEE NCDOT STD 1101.11 FOR DRUM SPACING DETAILS.

SEE RDY STD 1101.02 SHEET 4 OF 19 FOR ADDITIONAL TRAFFIC CONTROL MEASURES



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 \$\$\$DDGN\$\$\$\$\$
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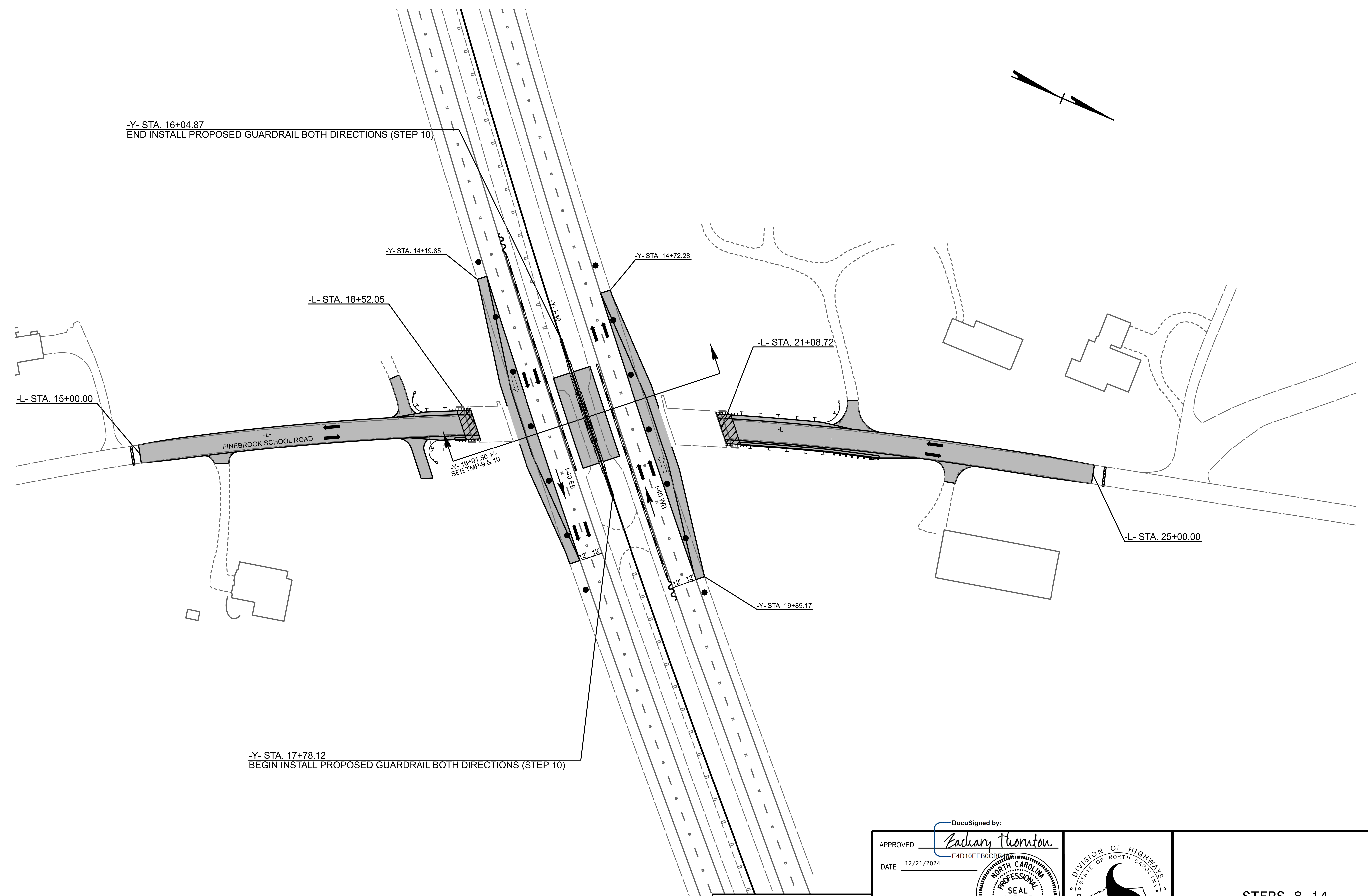
SEE RDY STD 1101.02 SHEET 4 OF 19 FOR ADDITIONAL TRAFFIC CONTROL MEASURES

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STEP 6



\$\$\$SYTIME\$\$\$\$
 \$\$\$DCGN\$\$\$\$
 \$\$\$USERNAM\$\$\$\$

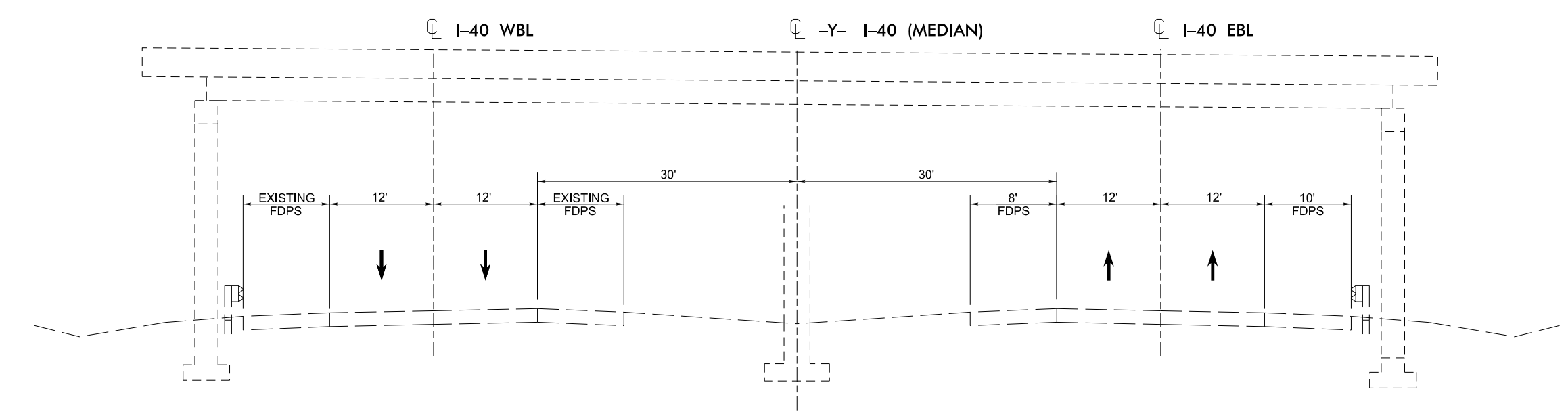
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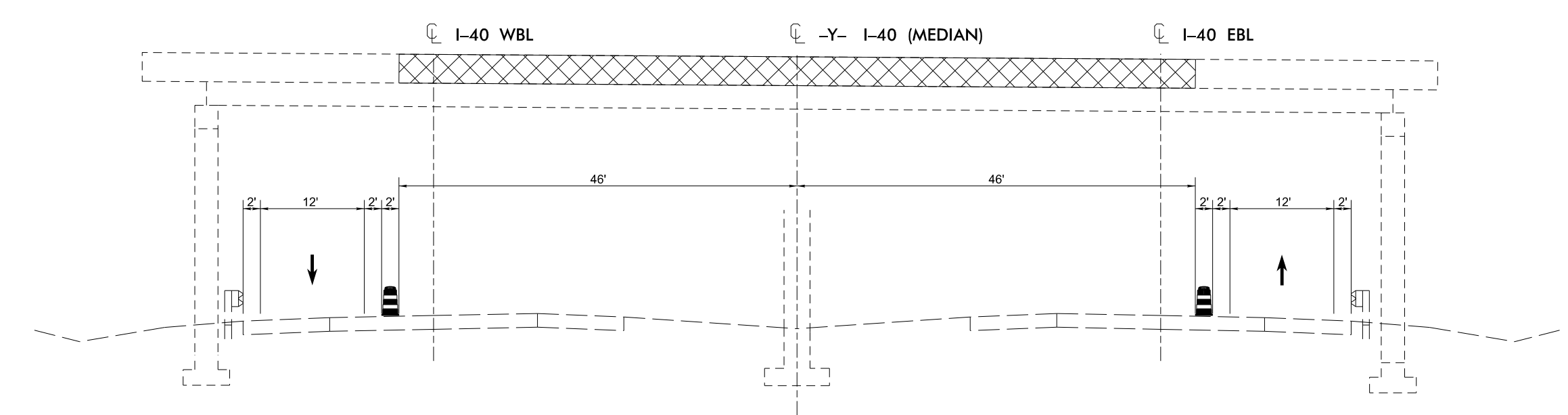


STEPS 8 - 14

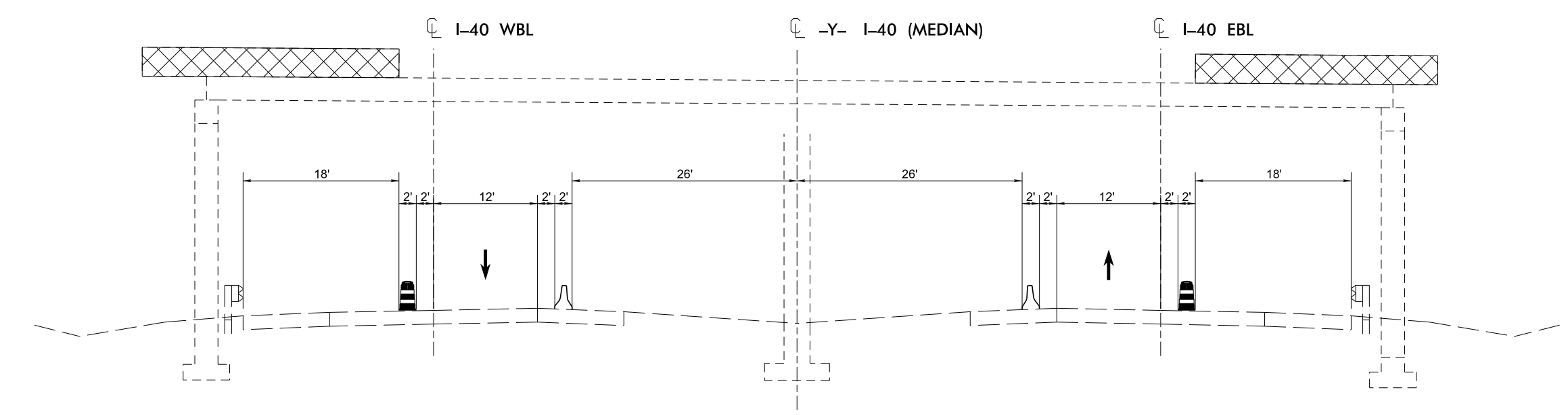
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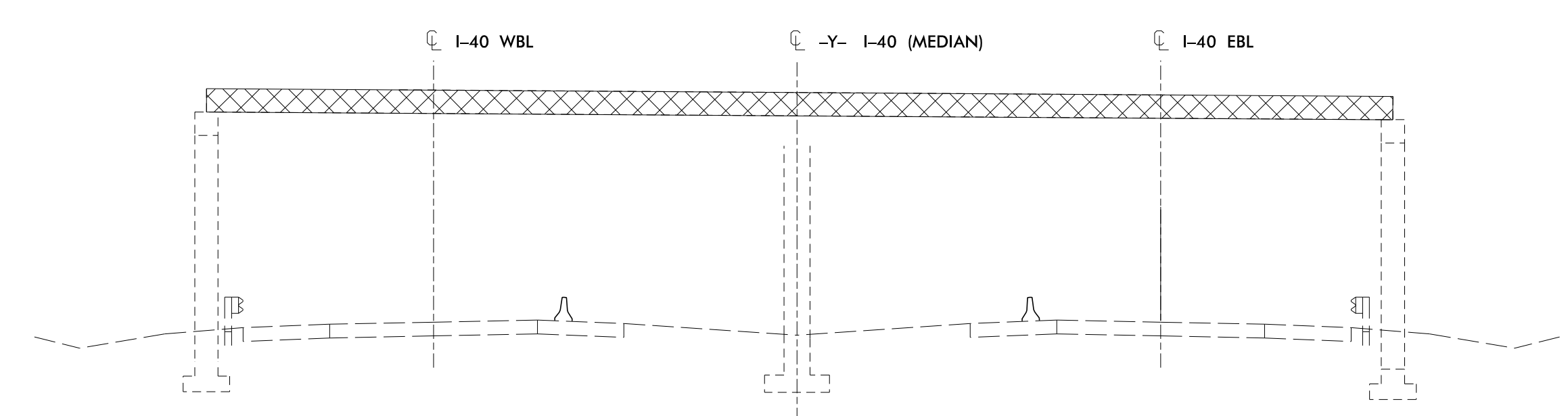
EXISTING



STEP 5



STEP 6



STEP 7

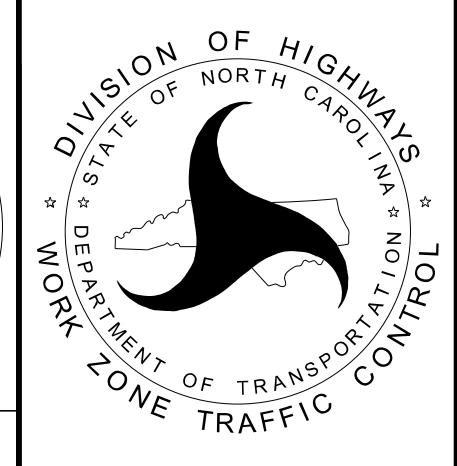
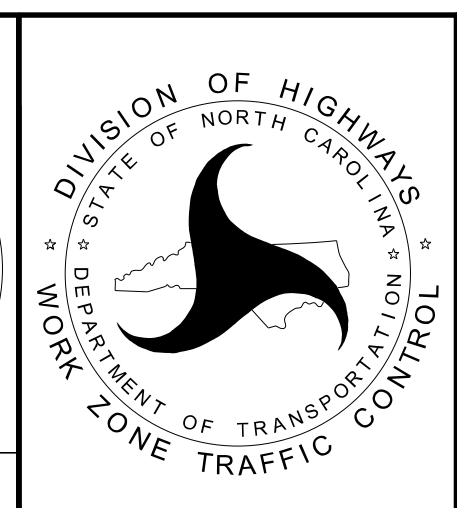
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 User: zachary.thornton

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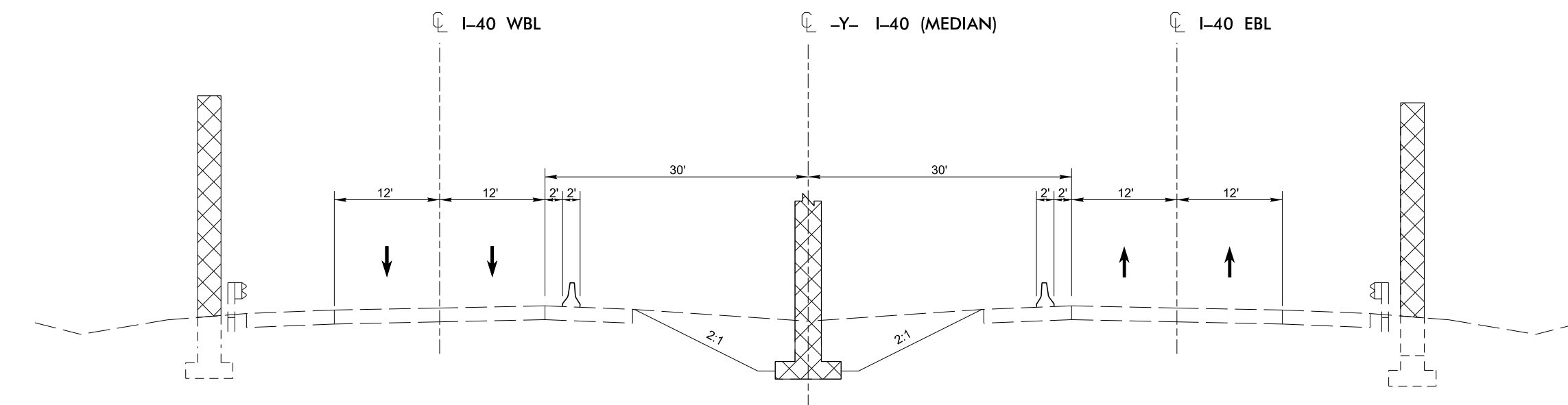
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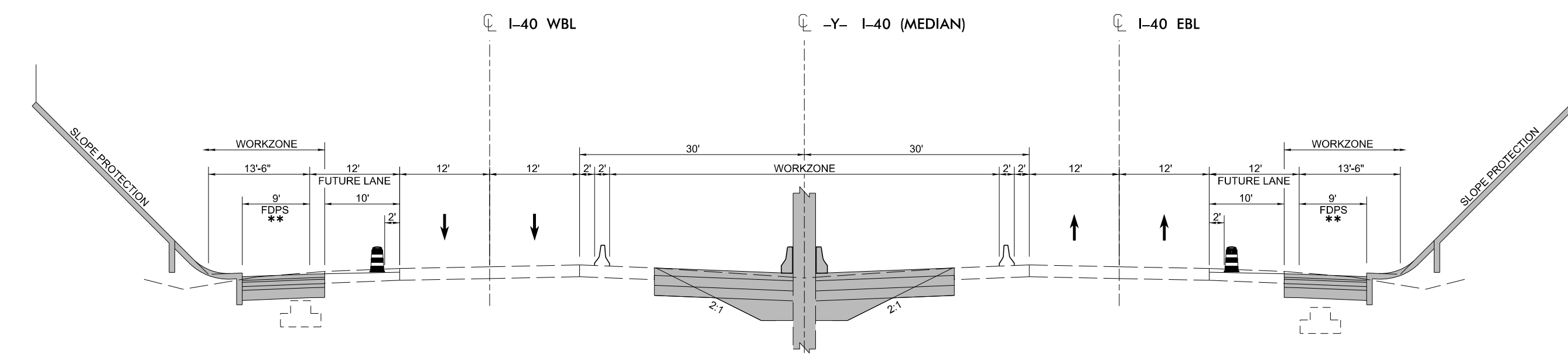
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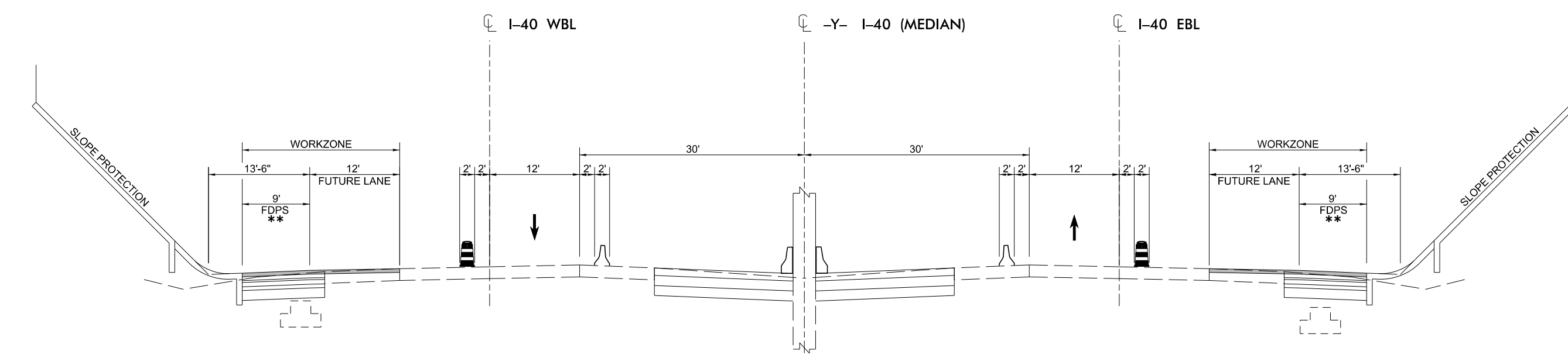
I-40
SECTION
VIEWS



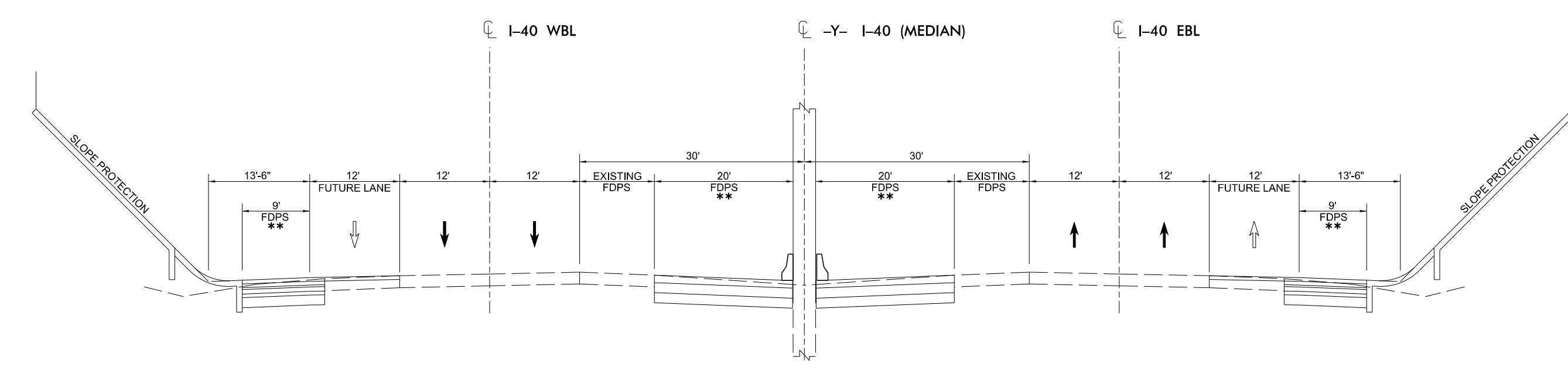
STEP 8



STEP 9



STEP 10



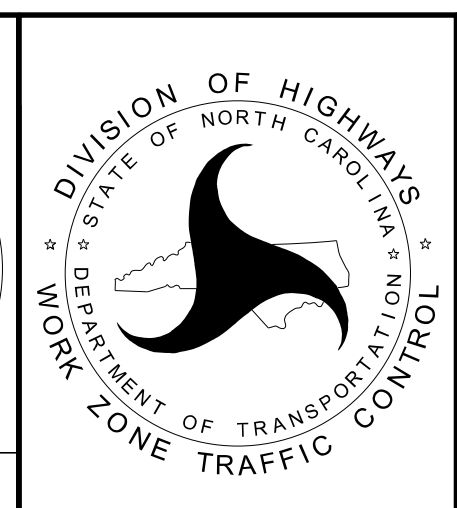
FINAL

NOTE: SEE PM PLANS FOR FINAL PAVEMENT MARKINGS AND MARKERS

12/20/2024
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**I-40
SECTION
VIEWS**