

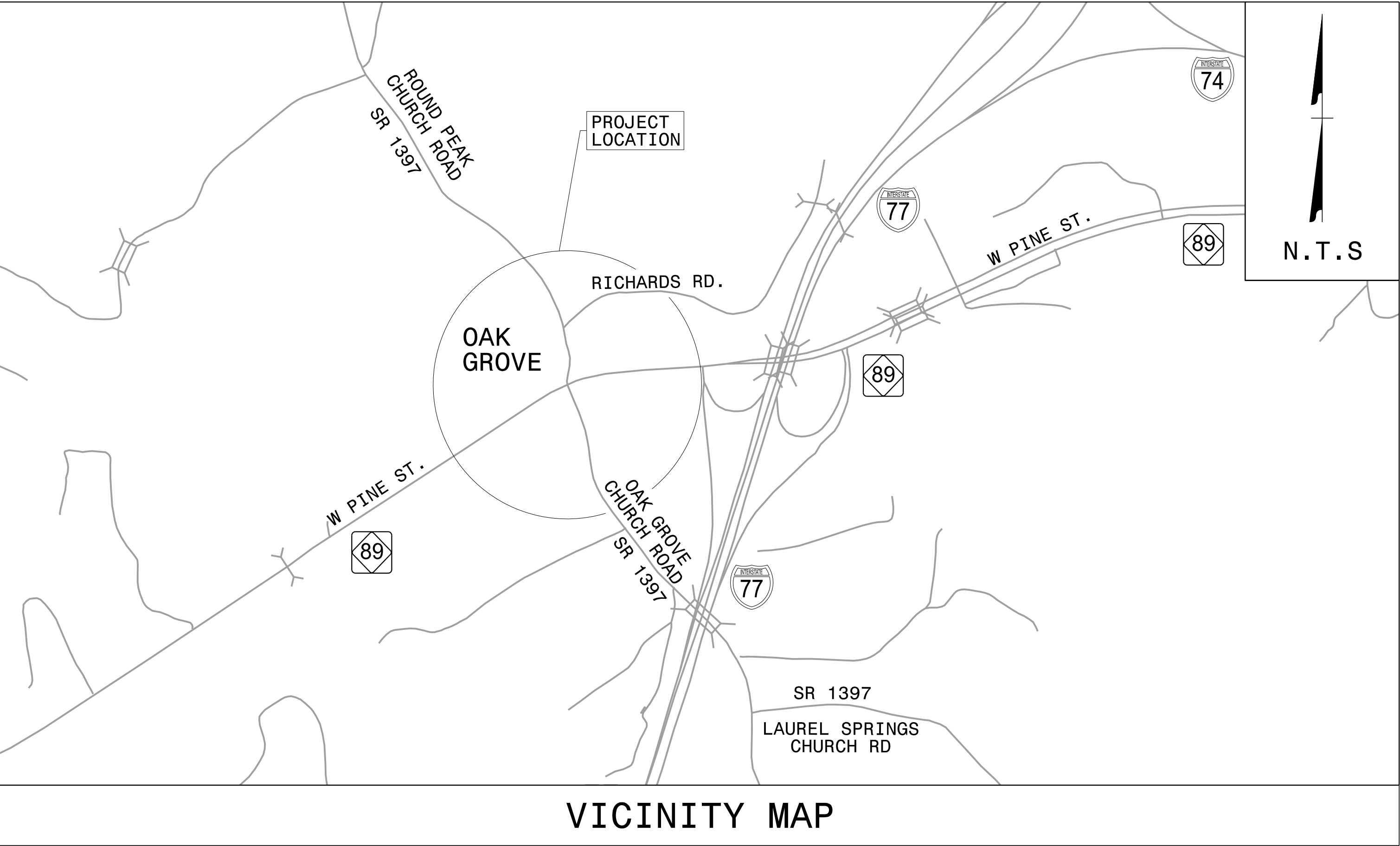
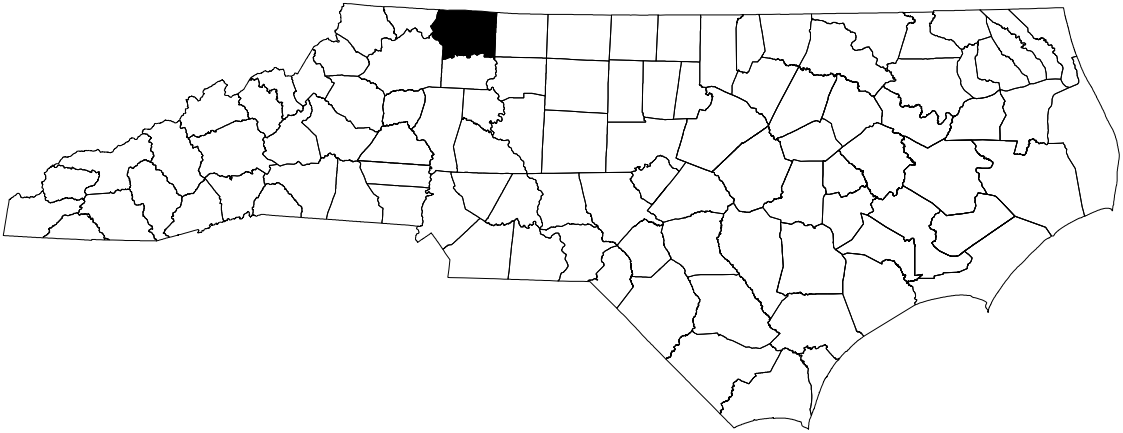
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

SURRY COUNTY

LOCATION: INTERSECTION IMPROVEMENTS AT NC 89 (W. PINE ST) AND SR 1397
(ROUND PEAK CHURCH RD/OAK GROVE CHURCH RD)

TYPE OF WORK: GRADING, PAVING, DRAINAGE

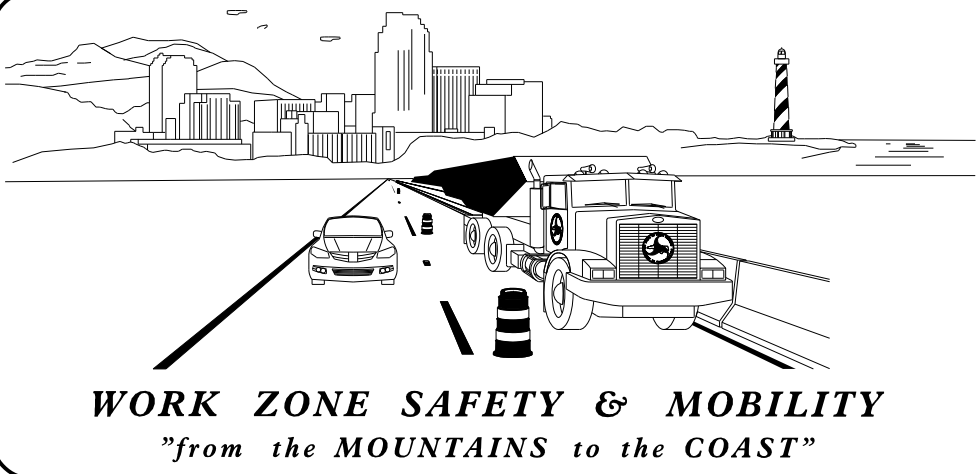


VICINITY MAP

INDEX OF SHEETS

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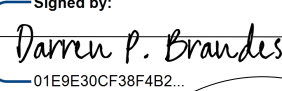
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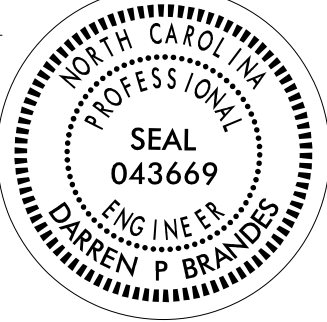
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APPROVED: 
DATE: 6/30/2025

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SHEET NO.
TMP-1

R-5901

TIP PROJECT:




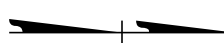


ROADWAY STANDARD DRAWINGS

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 - TYPE III
1150.01	FLAGGERS
1160.01	TEMPORARY CRASH CUSHION - REFLECTIVE END TREATMENT
1165.01	TRUCK MOUNTED ATTENUATOR
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY DRUMS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXIT AND ENTRANCE RAMPs
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
1205.16	BICYCLE FACILITIES
1205.17	PAVEMENT MARKINGS - SIDE-BY-SIDE/ADJACAENT ON/OFF RAMPS PVMT. MARKING LANE TREATMENT
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
1266.01	RAISED PAVEMENT MARKERS - TUBULAR MARKERS
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

 WEDGING

 TEMPORARY PAVEMENT

SIGNALS

-  EXISTING
-  PROPOSED
-  TEMPORARY




PAVEMENT MARKINGS

-  EXISTING LINES
-  TEMPORARY LINES

ABBREVIATIONS

- SB - SOUTHBOUND
- NB - NORTHBOUND
- WB - WESTBOUND
- EB - EASTBOUND







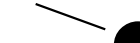

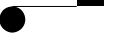


PAVEMENT MARKERS

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




PAVEMENT MARKING SYMBOLS

-  PAVEMENT MARKING SYMBOLS

TRAFFIC CONTROL DEVICES

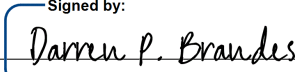
-  BARRICADE (TYPE III)
-  CONE
-  DRUM
-  SKINNY DRUM
-  TUBULAR MARKER
-  TEMPORARY CRASH CUSHION
-  FLASHING ARROW BOARD
-  FLAGGER
-  LAW ENFORCEMENT
-  TRUCK MOUNTED ATTENUATOR (TMA)
-  CHANGEABLE MESSAGE SIGN

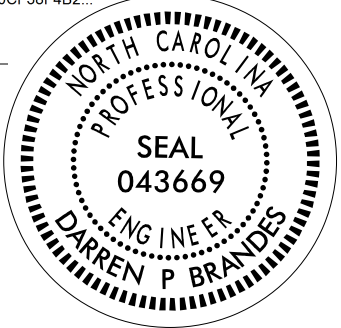
TEMPORARY SIGNING

-  PORTABLE SIGN
-  STATIONARY SIGN
-  STATIONARY OR PORTABLE SIGN

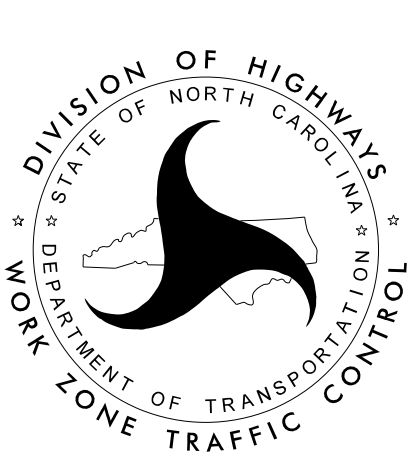
TEMP. PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
PAINT 4"		PAINT 12"	
P1	WHITE EDGELINE	P51	WHITE DIAGONAL
P2	WHITE SOLID LANE LINE	P52	YELLOW DIAGONAL
P4	3FT. - 9FT./SP WHITE MINISKIP	PAINT 24"	
P5	2FT. - 6FT./SP WHITE MINISKIP	P61	WHITE STOPBAR
P10	YELLOW EDGELINE	PAINT PAVEMENT MARKING SYMBOLS	
P13	YELLOW DOUBLE CENTER	P70	LEFT TURN ARROW
P14	2FT. - 6FT./SP YELLOW MINISKIP	P71	RIGHT TURN ARROW
PAINT 6"		P103	24" YIELD LINE TRIANGLE
P20	WHITE EDGELINE	P118	FISH-HOOK W/CIRCLE
P21	WHITE SOLID LANE LINE	LEFT/RIGHT/STRAIGHT ARROWS	
P22	10FT. WHITE SKIP	PAINT PAVEMENT MARKING CHARACTER	
P23	3FT. - 9FT./SP WHITE MINISKIP	P100	ALPHANUMERIC CHARACTER
P24	2FT. - 6FT./SP YELLOW MINISKIP	TEMPORARY RAISED PAVEMENT MARKERS	
P30	YELLOW EDGELINE	MA	YELLOW & YELLOW
P33	YELLOW DOUBLE CENTER	MB	CRYSTAL & RED
P34	2FT. - 6FT./SP YELLOW MINISKIP		
PAINT 8"			
P40	WHITE GORELINE		
P41	WHITE DIAGONAL		
P42	YELLOW DIAGONAL		
P45	3FT. - 3FT./SP WHITE MINISKIP		

APPROVED: 
DATE: 6/30/2025

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ROADWAY STANDARD
DRAWINGS & LEGEND

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 UNDESIRE

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
NC 89 (WEST PINE ST.) (-L1- AND -L2-)	MONDAY THRU FRIDAY 7:00 A.M. TO 9:00 A.M. & 4:00 P.M. TO 7:00 P.M.
SR 1397 (ROUND PEAK CHURCH RD) (-Y1-) SR 1397 (OAK GROVE CHURCH RD) (-Y2-)	MONDAY THRU FRIDAY 7:00 A.M. TO 9:00 A.M. & 4:00 P.M. TO 7:00 P.M.

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

ROAD NAME
NC 89 (WEST PINE ST) (-L1- AND -L2-) SR 1397 (ROUND PEAK CHURCH RD) (-Y1-) SR 1397 (OAK GROVE CHURCH RD) (-Y2-)

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 7:00 A.M. DECEMBER 31st TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 7:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 7:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

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

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

C) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
NC 89 (WEST PINE ST.)	6:00 A.M. TO 9:00 P.M. MONDAY THRU SUNDAY	30 MINUTES, OVERHEAD TEMP SIGNAL WORK

LANE AND SHOULDER 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 WITHIN 5FT OF AN OPEN TRAVEL LANE ON AN UNDIVIDED FACILITY, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONELL AND/OR EQUIPMENT ARE WORKING WITHIN 10FT OF AN OPEN TRAVEL LANE ON A DIVIDED FACILITY, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

- 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 REMAIN 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) 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.
- J) NOTIFY THE NCDOT STATEWIDE TRANSPORTATION OPERATIONS CENTER (STOC) AT 877-627-7862 APPROXIMATELY 30 MINUTES PRIOR TO INSTALLING AND WITHIN 15 MINUTES AFTER REMOVING LANE CLOSURES ON INTERSTATES, FREEWAYS, CONTROLLED ACCESS FACILITIES, AND US ROUTES.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- K) 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.

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

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- N) 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.

- O) 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.

- P) 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.

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

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

TRAFFIC BARRIER

- S) 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.

PROJ. REFERENCE NO.

R-5901

SHEET NO.

TMP-1B

KCA

301 FAYETTEVILLE STREET
SUITE 1500
RALEIGH, NC 27601
(919) 882-7839
NC FIRM LICENSE: C-1506

APPROVED:

Signed by:

Darren P. Brandes

01EBE30CF38F4B2

DATE: 7/16/2025

SEAL

NOT IN CAROLINA

PROFESSIONAL

SEAL

043669

ENGINEER

DARREN P. BRANDES

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DIVISION OF HIGHWAYS

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

WORK ZONE TRAFFIC CONTROL

GENERAL NOTES

(SHEET 1 OF 2)

GENERAL NOTES (CONT.)

- T) 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

TRAFFIC CONTROL DEVICES

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

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
NC 89 (WEST PINE ST.) (-L1- & -L2-)	PAINT	RAISED
SR 1397 (ROUND PEAK CHRUCH RD) (-Y1-)	PAINT	NONE
SR 1397 (OAK GROVE CHURCH RD) (-Y2-)	PAINT	RAISED

- Y) 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.
- 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.
- BB) TRACE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION. PLACE TUBLAR MARKERS TO DELINEATE ANY PROPOSED MONOLITHIC ISLANDS BEFORE INSTALLATION.

MISCELLANEOUS

- 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) 350 FT AND 350 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.
- DD) ALL EXISTING REGULATORY SIGNS IMPACTED BY CONSTRUCTION SHALL BE RELOCATED OR REMOVED IF SIGNAGE IS NO LONGER APPLICIBLE.

MANAGEMENT STRATEGIES

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

RECOMMENDED STRATEGIES:

TRAFFIC MANAGEMENT STRATEGIES:

- FULL ROADWAY CLOSURES (Y-LINES ONLY)
- LANE SHIFTS OR CLOSURES
- SHOULDER CLOSURES
- ONE-LANE, TWO WAY OPERATION (FLAGGING)
- TWO-WAY TRAFFIC ON ONE SIDE OF DIVIDED FACILITY (CROSSOVER)
- NIGHT WORK
- WEEKEND WORK
- WORK HOUR RESTRICTIONS FOR PEAK TRAVEL
- BUSINESS ACCESS IMPROVEMENTS
- OFF-SITE DETOURS / USE OF ALTERNATIVE ROUTES
- ON-SITE DETOURS

WORK ZONE SAFETY & MOBILITY STRATEGIES:

- TEMPORARY TRAFFIC SIGNALS

CORRIDOR / NETWORK MANAGEMENT STRATEGIES:

- COORDINATION WITH ADJACENT CONSTRUCTION SITE(S)

TRAFFIC / INCIDENT MANAGEMENT & SPEED ENFORCEMENT STRATEGIES:

- COORDINATION WITH STATE TRAFFIC OPERATIONS CENTER (STOC)
- COORDINATION WITH MEDIA
- LOCAL DETOUR ROUTES

CONTRACTING & INNOVATIVE CONTRUCTION STRATEGIES:

- INTERMEDIATE CONTRACT TIMES / LIQUIDATED DAMAGES

PROJ. REFERENCE NO.

R-5901

SHEET NO.

TMP-1C

KCA

301 FAYETTEVILLE STREET
SUITE 1500
RALEIGH, NC 27601
(919) 882-7839
NC FIRM LICENSE: C-1506

KISINGER CAMPO
& ASSOCIATES

7/17/2025
R5901_1C_TMP_General Notes.dgn
User:tdbrandes

APPROVED:

Signed by: 

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DATE: 7/17/2025

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GENERAL NOTES
(SHEET 2 OF 2)

PHASE 1

1. INSTALL WORK ZONE ADVANCE WARNING SIGNS ON -L1-, -L2-, -Y1-, -Y2-, I-77 OFF-RAMP PER RSD 1101.01, SHEETS 1-3 OF 3 AND PER RSD 1101.11, SHEET 4 OF 4.
2. MAINTAIN PHASE 1 TRAFFIC IN EXISTING LANES.
3. INSTALL CHANNELIZING DEVICES WHILE MAINTAINING TRAFFIC PER THE TMP AND PER RSD 1101.02, SHEETS 1 AND 3 OF 19. SPACE DRUMS AT 40 FEET IN TAPERS AND 80 FEET IN TANGENTS. SPACE DRUMS USED TO CHANNELIZE DRIVEWAYS AT 10 FEET.

ICT:

COMPLETE THE WORK REQUIRING LANE CLOSURES DESCRIBED IN PHASE 1, NOTE 4A BETWEEN THE HOURS OF 9:00 AM AND 4:00 PM OR BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM. SEE ICT FOR LIQUIDATED DAMAGES.

4. CONSTRUCT TEMPORARY AND PROPOSED DRAINAGE STRUCTURES AND PIPES AS SHOWN IN PHASE 1. INSTALL STRUCTURES 0401, 0410A, 0450A, 0450B, T-0401, T-0402, T-0403, T-0404, T-040A, T-0405, T-045A, T-0601, T-0602, T-0603.
 - a. CLOSE LANES AND MAINTAIN TRAFFIC PER RSD 1101.02, SHEET 1 OF 19 WHEN INSTALLING THE CROSS PIPE FOR 0401-0410A AND 0450A-0450B.
 - b. INSTALL JACK & BORE CROSS PIPE BETWEEN 0401 AND 0410A, AND BETWEEN 0450A AND 0450B.

ICT:

COMPLETE THE WORK REQUIRING LANE CLOSURES DESCRIBED IN PHASE 1, NOTE 5 BETWEEN THE HOURS OF 9:00 AM AND 4:00 PM OR BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM. SEE ICT FOR LIQUIDATED DAMAGES.

5. CONSTRUCT TEMPORARY PAVEMENT SHOWN IN THE PHASE 1 TMP -L1- ST 10+39 TO -L2- STA 13+30.8. CONSTRUCT TEMPORARY -Y2- DETOURS 1 AND 2. SEE THE ROADWAY PLANS FOR DETAILS OF THE -Y2- ONSITE DETOURS 1 AND 2 AND FOR TEMPORARY PAVEMENT EASTBOUND -L1- STA 10+39 TO -L2- STA 13+30.8. MAINTAIN TRAFFIC PER THE PHASE 1 TMP AND PER RSD 1101.02, SHEET 1 OF 19.
6. CONSTRUCT TEMPORARY GUARDRAIL FROM -L1- STA 10+39 TO -L1- STA 15+90 RT. CONCURRENTLY WITH TEMPORARY PAVEMENT CONSTRUCTION

ICT:

COMPLETE THE WORK REQUIRING LANE CLOSURES DESCRIBED IN PHASE 1, NOTE 7 BETWEEN THE HOURS OF 9:00 AM AND 4:00 PM OR BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM. SEE ICT FOR LIQUIDATED DAMAGES.

7. CONSTRUCT TEMPORARY WEDGING AS SHOWN IN THE PHASE 1 TMP, -L1- STA 16+20 TO -L2- STA 10+93.5, AND -Y2- STA 10+00 TO -Y2- STA 12+77. SEE THE ROADWAY PLANS FOR SEE ROADWAY PLANS FOR DETAILS. MAINTAIN TRAFFIC PER THE PHASE 1 TMP AND PER RSD 1101.02, SHEET 1 OF 19.
8. PLACE TYPE 3 BARRICADES AS SHOWN IN THE TMP UPON COMPLETION OF THE TEMPORARY PAVEMENT.

PHASE 2

ICT:

COMPLETE ALL WORK SHOWN IN THE PHASE 2 TMP AND SHIFT TRAFFIC TO PHASE 3A CONFIGURATION WITHIN ONE HUNDRED AND FIFTY (150) CALENDAR DAYS FROM THE DATE THE CONTRACTOR ELECTS TO BEGIN THIS WORK. SEE ICT FOR LIQUIDATED DAMAGES.

1. INSTALL WORK ZONE SIGNS AS SHOWN IN THE PHASE 2 TMP.

ICT:

COMPLETE THE WORK REQUIRING LANE CLOSURES DESCRIBED IN PHASE 2, NOTE 2 BETWEEN THE HOURS OF 9:00 AM AND 4:00 PM OR BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM. SEE ICT FOR LIQUIDATED DAMAGES.

2. RESTRIPE -L1-, -L2- AND -Y2- AS SHOWN IN THE PHASE 2 TMP. SHIFT -L1-, -L2- AND -Y2- TRAFFIC INTO THE PHASE 2 TEMPORARY LANE CONFIGURATION INCLUDING THE -Y2- ONSITE DETOUR 1 AS SHOWN IN THE PHASE 2 TMP. REMOVE CONFLICTING EXISTING PAVEMENT MARKINGS. MAINTAIN TRAFFIC PER RSD 1101.02, SHEETS 1 AND 3 OF 19.
3. CLOSE -Y1- TO TRAFFIC. DETOUR -Y1- TRAFFIC PER THE -Y1- ROUND PEAK CHURCH ROAD (SR 1397) OFFSITE DETOUR PLAN SHOWN ON TMP-3. CONSTRUCT THE PORTION OF -Y1- SHOWN IN THE PHASE 2 TMP on TMP-10.

4. INSTALL CHANNELIZING DEVICES WHILE MAINTAINING TRAFFIC PER THE TMP AND PER RSD 1101.02, SHEETS 1 AND 3 OF 19. SPACE DRUMS AT 40 FEET IN TAPERS AND 80 FEET IN TANGENTS. SPACE DRUMS USED TO CHANNELIZE DRIVEWAYS AT 10 FEET.
5. CONSTRUCT THE TEMPORARY REALIGNED DRIVEWAY AT -Y1- 14+00. CONSTRUCT THE TEMPORARY REALIGNED DRIVEWAY AT -L1- 15+80. UPON COMPLETION OF TEMPORARY DRIVEWAYS, CONSTRUCT PROPOSED DRIVEWAYS AT SAME LOCATIONS.

ICT:

COMPLETE THE WORK REQUIRING LANE CLOSURES DESCRIBED IN PHASE 2, NOTE 6 BETWEEN THE HOURS OF 9:00 AM AND 4:00 PM OR BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM. SEE ICT FOR LIQUIDATED DAMAGES.

6. CONSTRUCT TEMPORARY AND PROPOSED DRAINAGE STRUCTURES AT LOCATIONS SHOWN IN PHASE 2. INSTALL 0401, 0402, 0404, 0405, 0408, 0413, 0415, 0416, 0422, 0422A, 0423, 0424, 0425, 0425A, 0426, 0427, 0429, 0430, 0434, 0435, 0435-A, 0451, 0500, 0550A, 0550B, 0551A, 0551B, T0406.
 - a. CONSTRUCT STRUCTURE BOTTOM ONLY THIS PHASE FOR STRUCTURES 0401, 0402, 0405, 0408, 0422A, 0429, 0430. INSTALL STEEL TOP TEMPORARILY AS SHOWN ON IN THE PHASE 2 TMP. PLACE TOP BELOW PAVEMENT. PRIOR TO MANUFACTURE THESE STRUCTURES, FIELD VERIFY TOP OF STRUCTURE ELEVATION. BACKFILL AND PAVE OVER AS DIRECTED BY THE ENGINEER. THESE STRUCTURES ARE NON-FUNCTIONAL THIS PHASE.
 - b. WHEN INSTALLING STRUCTURES 0427, 0434, 0435, 0435-A, COORDINATE WITH PROPERTY OWNERS AFFECTED BY THIS WORK.
7. CONSTRUCT PROPOSED WEDGING ON -L1- WITHIN THE PHASE 2 LIMITS.

ICT:

COMPLETE THE WORK REQUIRING LANE CLOSURES DESCRIBED IN PHASE 2, NOTE 8 BETWEEN THE HOURS OF 9:00 AM AND 4:00 PM OR BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM. SEE ICT FOR LIQUIDATED DAMAGES.

8. UPON COMPLETION OF -L1- WEDGING, INSTALL PCB WHILE MAINTAINING TRAFFIC PER RSD 1101.02, SHEET 1 of 19.
9. CONSTRUCT THE PROPOSED PAVEMENT WITHIN THE PHASE 2 LIMITS SHOWN, INCLUDING WITHIN THE LIMITS OF THE CONCRETE MEDIAN SEPARATORS, BUT DO NOT CONSTRUCT THE CONCRETE MEDIAN SEPARATORS ON -L1-, -L2- OR -Y1- THIS PHASE. CONSTRUCT THESE SEPARATORS IN PHASE 4.
10. CONSTRUCT TEMPORARY PAVEMENT WITHIN THE NORTH HALF OF THE CENTRAL ISLAND OF THE ROUNDABOUT. DO NOT CONSTRUCT THE CENTRAL ISLAND OR TRUCK APRON OF THE ROUNDABOUT THIS PHASE. THIS WILL BE CONSTRUCTED IN PHASE 4.
11. -L2- STA 12+00 TO 13+20: CONSTRUCT TEMPORARY WEDGING TO PROVIDE A VERTICAL TRANSITION FROM THE PROPOSED TO THE EXISTING PAVEMENT.
12. INSTALL PROPOSED GUARDRAIL FROM -L2- STA 16+00 TO -L2- STA 24+00.

ICT:

COMPLETE THE WORK REQUIRING LANE CLOSURES DESCRIBED IN PHASE 2, NOTE 13 BETWEEN THE HOURS OF 9:00 AM AND 4:00 PM OR BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM. SEE ICT FOR LIQUIDATED DAMAGES.

13. AS AN INITIAL ITEM IN PHASE 3A PRIOR TO PLACING TWO LANE TWO WAY TRAFFIC AND PRIOR TO INSTALLING ANCHORED PCB, CONSTRUCT PROPOSED WEDGING SHOWN WITHIN THE SHADED AREA ON -L1-. SEE ROADWAY PLANS. MAINTAIN TRAFFIC PER RSD 1101.02, SHEET 1 OF 19.
14. INSTALL WORK ZONE SIGNS AS SHOWN IN THE PHASE 3A TMP AND COVER UNTIL PHASE 3 TRAFFIC CONFIGURATION IS IN PLACE.
15. CLOSE -Y2- AND DETOUR TRAFFIC PER TMP-15 AND THE -Y2- OFFSITE DETOUR SHOWN ON TMP-4.
16. -L2- STA 13+31 TO 14+50 RT: CONSTRUCT TEMPORARY WEDGING TO PROVIDE A VERTICAL TRANSITION FROM THE PROPOSED TO THE EXISTING PAVEMENT

PHASE 3A

ICT:

COMPLETE THE WORK IN PHASE 3A AND OPEN UP THE -Y2- ROADWAY AND -Y2- ONSITE DETOUR TO TRAFFIC WITHIN FOURTEEN (14) DAYS FROM THE DATE THE CONTRACTOR ELECTS TO BEGIN THIS WORK. SEE ICT FOR LIQUIDATED DAMAGES.

THE PURPOSE OF PHASE 3A IS TO CONSTRUCT THE INTERSECTION OF -L1- AND -Y2- DETOUR 2 (CIRCLED AREA ON TMP 15) IN AN EXPEDITED MANNER WHILE CLOSING -Y2- TEMPORARILY.

ICT:

COMPLETE THE WORK REQUIRING LANE CLOSURES DESCRIBED IN PHASE 3A, NOTE 1 BETWEEN THE HOURS OF 9:00 AM AND 4:00 PM OR BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM. SEE ICT FOR LIQUIDATED DAMAGES.

1. RESTRIPE -L1-, -L2-, -Y1- AND -Y2- AS SHOWN IN THE PHASE 3A TMP ON SHEET TMP-15, AND THE PHASE 3B TMP ON TMP-17 AND TMP-18. SHIFT -L1- AND -L2- TRAFFIC INTO THE PHASE 3A / PHASE 3BTEMPORARY LANE CONFIGURATION UTILIZING THE NEW PAVEMENT CONSTRUCTED IN PHASE 2, AS SHOWN IN THE PHASE 3A AND PHASE 3B TMP. REMOVE CONFLICTING EXISTING PAVEMENT MARKINGS. INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS WHILE MAINTAINING TRAFFIC PER RSD 1101.02, SHEET 1 AND 3 OF 19. SHIFT THE -Y1- CLOSURE FROM THE PHASE 2 CONFIGURATION TO THE PHASE 3A CONFIGURATION AS SHOWN ON TMP-15. CONTINUE TO DETOUR -Y1- TRAFFIC PER THE -Y1- OFFSITE DETOUR ON TMP-3.

ICT:

COMPLETE THE WORK REQUIRING LANE CLOSURES DESCRIBED IN PHASE 3A, NOTE 3 BETWEEN THE HOURS OF 9:00 AM AND 4:00 PM OR BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM. SEE ICT FOR LIQUIDATED DAMAGES.

2. INSTALL CHANNELIZING DEVICES AND PCB WHILE MAINTAINING TRAFFIC PER RSD 1101.02, SHEET 1 OF 19.
3. INSTALL TEMPORARY 18” PIPE AND CATCH BASIN AT T-0406.
4. CONSTRUCT TEMPORARY PAVEMENT AND TEMPORARY WEDGING AS SHOWN IN PHASE 3A ON SHEET TMP 15 AT THE INTERSECTION OF -L1- AND -Y2- DETOUR 2 WITHIN THE CIRCLED AREA TO MATCH THE HIGHER GRADE OF THE PROPOSED -L1- PAVEMENT.

ICT:

COMPLETE THE OVERHEAD WORK FOR THE TEMPORARY SIGNAL ASSEMBLY DESCRIBED IN PHASE 3A, NOTE 6 BETWEEN THE HOURS OF 9:00 PM AND 6:00 AM FOR A DURATION OF NO MORE THAN 30 MINUTES. SEE ICT FOR LIQUIDATED DAMAGES.

5. INSTALL TEMPORARY SIGNAL AT THE -L1- AND TEMPORARY -Y2- INTERSECTION. MAINTAIN TRAFFIC PER 1101.02, SHEET 1 OF 19 FOR LANE CLOSURES AS NEEDED, AND PER 1101.03, SHEET 8 OF 9 DURING OVERHEAD WORK. ENERGIZE THE SIGNAL AND PLACE IN TWO-WAY FLASHING YELLOW MODE UNTIL -Y2- IS OPEN TO TRAFFIC WITHIN THE INTERSECTION.
6. RELOCATE THE PCB WITHIN THE -L1- -Y2- DETOUR 2 INTERSECTION AND RECONFIGURE AS SHOWN IN THE PHASE 3B TMP.
7. INSTALL WORK ZONE SIGNS AS SHOWN IN THE PHASE 3B TMP.

ICT:

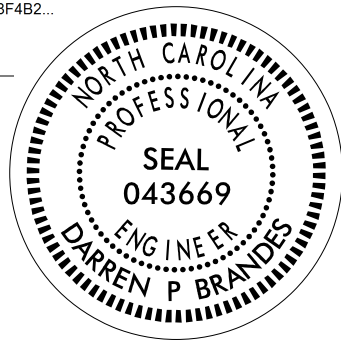
COMPLETE THE WORK REQUIRING LANE CLOSURES DESCRIBED IN PHASE 3A, NOTE 8 BETWEEN THE HOURS OF 9:00 AM AND 4:00 PM OR BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM. SEE ICT FOR LIQUIDATED DAMAGES.

8. RESTRIPE THE -L1-, -Y2- DETOUR 2 INTERSECTION AS SHOWN IN THE PHASE 3B TMP. MAINTAIN TRAFFIC PER SRD 1101.02, SHEETS 1 AND 3 OF 19.
9. UPON COMPLETION OF TEMPORARY PAVEMENT AND WEDGING DESCRIBED IN PHASE 3A, OPEN -Y2- DETOUR 2 TO TRAFFIC AND SHIFT TRAFFIC TO PHASE 3B LANE CONFIGURATION.

ICT:

COMPLETE THE WORK REQUIRING LANE CLOSURES DESCRIBED IN PHASE 3A, NOTE 10 BETWEEN THE HOURS OF 9:00 AM AND 4:00 PM OR BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM. SEE ICT FOR LIQUIDATED DAMAGES.

10. INSTALL CHANNELIZING DEVICES AND PCB WHILE MAINTAINING TRAFFIC PER THE TMP AND PER RSD 1101.02, SHEETS 1 AND 3 OF 19. SPACE DRUMS AT 40 FEET IN TAPERS AND 80 FEET IN TANGENTS. SPACE DRUMS USED TO CHANNELIZE DRIVEWAYS AT 10 FEET.

APPROVED:	<div>Signed by: <i>Darren P. Brandes</i> 01E9E30CF38F4B2</div>
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PHASE 3B

ICT:
COMPLETE ALL WORK SHOWN IN THE PHASE 3B TMP NOTE 1 AND OPEN -Y1- WITHIN SIXTY (60) CALENDAR DAYS FROM THE DATE THAT PHASE 3B BEGINS. SEE ICT FOR LIQUIDATED DAMAGES.

1. CONTINUE TO KEEP -Y1- CLOSED AND -Y1- TRAFFIC DETOURED PER TMP 15 AND THE -Y1- OFFSITE DETOUR ON TMP 3. COMPLETE ALL -Y1- WORK AS NEEDED TO OPEN -Y1- TO TRAFFIC. ONCE WORK IS COMPLETED, OPEN -Y1- TO TRAFFIC.

ICT:
COMPLETE THE WORK REQUIRING LANE CLOSURES DESCRIBED IN PHASE 3B, NOTE 2 BETWEEN THE HOURS OF 9:00 AM AND 4:00 PM OR BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM. SEE ICT FOR LIQUIDATED DAMAGES.

2. CONSTRUCT PROPOSED DRAINAGE STRUCTURES AND PIPES AS SHOWN IN PHASE 3B. INSTALL STRUCTURES 0410, 0410-B, 0411, 0412, 0413, 0417, 0418, 0419, 0420, 0420-A, 0421, 0428, 0431, 0431A, 0431B, 0453.
3. CONSTRUCT THE SOUTH HALF OF THE ROUNDABOUT, INCLUDING THE CENTRAL ISLAND AND TRUCK APRON.
4. REMOVE ALL TEMPORARY PAVEMENT AND TEMPORARY WEDGING NO LONGER IN USE.
5. CONSTRUCT PROPOSED -L1- AND -L2- EASTBOUND ROADWAY WIDENING.

ICT:
BEGIN ALL WORK SHOWN IN PHASE 3B TMP NOTE 6 FOURTEEN (14) CALENDAR DAYS PRIOR TO SHIFTING TRAFFIC TO PHASE 4 CONFIGURATION. OPEN -Y1- ON THE DATE THAT TRAFFIC IS SHIFTED TO PHASE 4 CONFIGURATION. SEE ICT FOR LIQUIDATED DAMAGES.

6. COMPLETE -Y1- WITHIN PHASE 3B LIMITS. AS A LAST ITEM PRIOR TO PHASE 4, OPEN -Y1- CLOSURE WITHIN THE PHASE 3B LIMITS AS SHOWN ON TMP-15 AND TMP-18 AND SIMULTANEOUSLY CLOSE -Y1- FROM -Y1- STA 15+00 TO -Y1- STA 17+20. USE DRUMS AT 25' SPACES ADJACENT TO -L1-, -L2- EDGE LINE AND INSTALL (2) TYPE 3 BARRICADE WITH R2-11 SIGN PANEL ASSEMBLIES (ASSEMBLY NUMBER 3 ON TMP-16) AT -Y1- STA 15+00 AND -Y1- STA 17+20. CONTINUE TO MAINTAIN -Y1- OFFSITE DETOUR ON TMP-3. CONSTRUCT CONCRETE ISLAND IN -Y1-. CONSTRUCT PORTIONS OF CURB & GUTTER ON THE ROUNDABOUT CENTRAL ISLAND NOT IN CONFLICT WITH CURRENT PHASE 3B TRAFFIC WITH -Y1- BEING CLOSED. UPON COMPLETION OF THIS WORK, OPEN -Y1- WHEN PHASE 4 BEGINS AS SHOWN IN THE PHASE 4 TMP.

PHASE 4

1. INSTALL WORK ZONE SIGNS AS SHOWN IN THE PHASE 4 TMP.
2. INSTALL ALL PROPOSED SIGNS.

ICT:
COMPLETE THE WORK REQUIRING LANE CLOSURES DESCRIBED IN PHASE 4, NOTE 3 BETWEEN THE HOURS OF 9:00 AM AND 4:00 PM OR BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM. SEE ICT FOR LIQUIDATED DAMAGES.

3. REMOVE CONFLICTING EXISTING PAVEMENT MARKINGS. INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS WHILE MAINTAINING TRAFFIC PER RSD 1101.02, SHEET 1, 3 AND 18 OF 19. RESTRIPE ALL LEGS OF THE PROJECT TO MATCH THE FINAL PAVEMENT MARKINGS AND PROPOSED LANE ALIGNMENTS WHERE NOT OTHERWISE SHOWN IN THE PHASE 4 TMP.
4. PLACE ALL TRAFFIC IN FINAL CONFIGURATION EXCEPT -L1- WB TRAFFIC. OPEN -Y1- TO TRAFFIC. CONTINUE TO MAINTAIN WESTBOUND -L1- TRAFFIC ON TEMPORARY SHOULDER PAVEMENT.
5. REMOVE TEMPORARY SIGNAL.

ICT:
COMPLETE THE WORK REQUIRING LANE CLOSURES DESCRIBED IN PHASE 4, NOTE 6 BETWEEN THE HOURS OF 9:00 AM AND 4:00 PM OR BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM. SEE ICT FOR LIQUIDATED DAMAGES.

6. INSTALL CHANNELIZING DEVICES.

ICT:
COMPLETE THE WORK REQUIRING LANE CLOSURES DESCRIBED IN PHASE 4, NOTE 7 BETWEEN THE HOURS OF 9:00 AM AND 4:00 PM OR BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM. SEE ICT FOR LIQUIDATED DAMAGES.

7. CONSTRUCT REMAINDER OF ROUNDABOUT CENTRAL CIRCLE PAVEMENT, CURB & GUTTER AND TRUCK APRON. MAINTAIN TRAFFIC PER RSD 1101.02, SHEET 18 OF 19 IF NEEDED.

ICT:
COMPLETE THE WORK REQUIRING LANE CLOSURES DESCRIBED IN PHASE 4, NOTE 8 BETWEEN THE HOURS OF 9:00 AM AND 4:00 PM OR BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM. SEE ICT FOR LIQUIDATED DAMAGES.

8. CONSTRUCT CONCRETE ISLAND ON -L1-. REMOVE STEEL TOP AND INSTALL PROPOSED TOPS ON DRAINAGE STRUCTURE 0408. MAINTAIN TRAFFIC PER RSD 1101.02, SHEET 18 OF 19 IF NEEDED.
9. SHIFT WESTBOUND -L1- TRAFFIC INTO FINAL CONFIGURATION.
10. REMOVE TEMPORARY WESTBOUND SHOULDER PAVEMENT ON -L1-. CONSTRUCT CURB & GUTTER ON WESTBOUND -L1-. REMOVE STEEL TOPS AND INSTALL PROPOSED TOPS ON DRAINAGE STRUCTURES 0401, 0402, 0405.

ICT:
COMPLETE THE WORK REQUIRING LANE CLOSURES DESCRIBED IN PHASE 4, NOTE 11 BETWEEN THE HOURS OF 9:00 AM AND 4:00 PM OR BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM. SEE ICT FOR LIQUIDATED DAMAGES.

11. REMOVE TEMPORARY PAVEMENT AND CONSTRUCT WEDGING ON EASTBOUND -L2- WHILE MAINTAINING A SINGLE LANE OF TRAFFIC ON THE INSIDE OR OUTSIDE LANE PER RSD 1101.02, SHEET 3 OF 19.

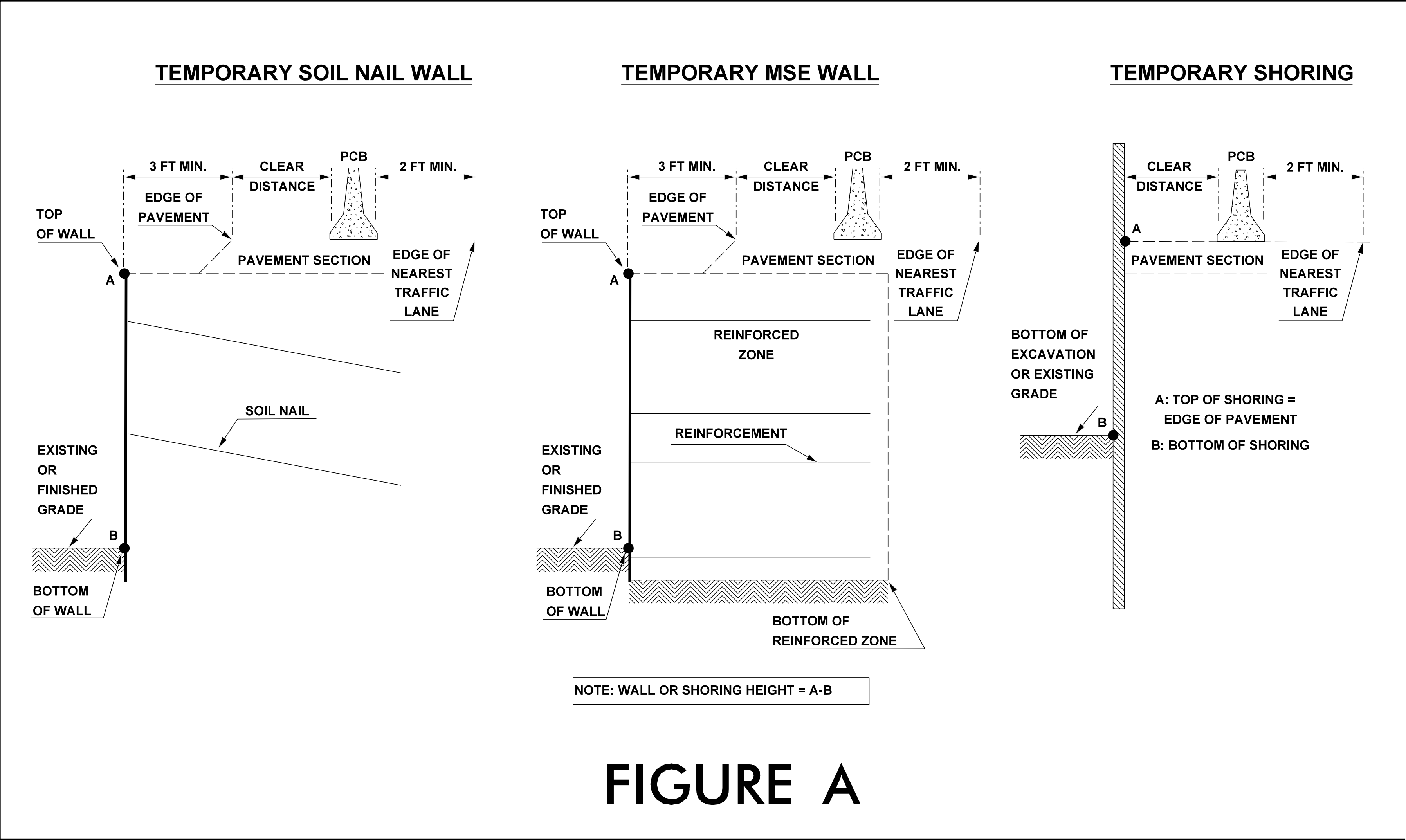
ICT:
COMPLETE THE WORK REQUIRING LANE CLOSURES DESCRIBED IN PHASE 4, NOTE 12 BETWEEN THE HOURS OF 9:00 AM AND 4:00 PM OR BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM. SEE ICT FOR LIQUIDATED DAMAGES.

12. INSTALL PCB ON -L2- WHILE MAINTAINING TRAFFIC PER RSD 1101.02, SHEET 1 OF 19. RESTRIPE EASTBOUND -L1- AS SHOWN IN THE PHASE 4 TMP.
13. REMOVE STEEL TOPS AND INSTALL PROPOSED TOPS ON DRAINAGE STRUCTURES 0429 AND 0430.
14. CONSTRUCT MEDIAN CURB & GUTTER ON -L2-. SHIFT WESTBOUND -L2- TRAFFIC ONTO SHOULDER DURING ACTIVE WORK PERIODS FROM -L2- STA 11+00 TO -L2- STA 15+00 AS NEEDED DURING CURB & GUTTER WORK.
15. REMOVE PCB ON -L2-. RESTRIPE EASTBOUND L-2 TO MATCH PROPOSED PAVEMENT MARKINGS.
16. REMOVE TEMPORARY PAVEMENT AND INSTALL CURB & GUTTER ON OUTSIDE -L2- ROADWAY.
17. RESTRIPE WESTBOUND -L-2 TO MATCH PROPOSED PAVEMENT MARKINGS.
18. REMOVE TEMPORARY SIGNAL.
19. REMOVE TEMPORARY PAVEMENT.
20. REMOVE TEMPORARY DRAINAGE STRUCTURES.
21. CONSTRUCT REMAINDER OF ROUNDABOUT CENTRAL CIRCLE AND TRUCK APRON.
22. REMOVE TEMPORARY PAVEMENT.

ICT:
COMPLETE THE WORK REQUIRING LANE CLOSURES DESCRIBED IN PHASE 4, NOTE 23 BETWEEN THE HOURS OF 9:00 AM AND 4:00 PM OR BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM. SEE ICT FOR LIQUIDATED DAMAGES.

23. CONSTRUCT ANY REMAINING ITEMS INCLUDING PLACEMENT OF THE FINAL ASPHALT SURFACE COURSE AND FINAL PAVEMENT MARKING AND MARKERS WHILE MAINTAINING TRAFFIC PER RSD 1101.02, SHEETS 1, 3, AND 18 OF 19.
24. REMOVE ALL REMAING SIGNS AND DEVICES AND OPEN ALL ROADWAYS TO TRAFFIC.

<div>APPROVED: <div>Signed by: <i>Darren P. Brandes</i> 01EBE30CF38F4B2...</div></div> <div>DATE: 7/25/2025</div> <div>SEAL</div> <div>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</div>	<div></div> <div></div>	<div>PHASING NOTES (2 OF 2)</div>
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- NOTES
- 1-

REFER TO THE TRAFFIC CONTROL PLANS FOR TEMPORARY SHORING LOCATIONS AND NOTES.

2-

REFER TO THE "TEMPORARY SHORING" STANDARD PROVISION FOR INFORMATION ABOUT TEMPORARY SHORING AND PORTABLE CONCRETE BARRIER (PCB).

3-

PCB IS REQUIRED IF TEMPORARY SHORING/WALL IS LOCATED WITHIN THE CLEAR ZONE IN ACCORDANCE WITH THE AASHTO ROADSIDE DESIGN GUIDE. DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE. (CONTACT NCDOT PAVEMENT MANAGEMENT FOR APPLICABLE PAVEMENT DESIGN).

4-

BASED ON THE CLEAR DISTANCE, OFFSET, DESIGN SPEED AND PAVEMENT TYPE, CHOOSE AN UNANCHORED OR ANCHORED PCB FROM THE TABLE SHOWN IN FIGURE B. CLEAR DISTANCE IS DEFINED AS SHOWN IN FIGURE A AND OFFSET IS DEFINED AS SHOWN IN FIGURE B.

5-

AT THE CONTRACTOR'S OPTION OR IF THE MINIMUM REQUIRED CLEAR DISTANCE IS NOT AVAILABLE, SET PCB NEXT TO AND UP AGAINST THE TRAFFIC SIDE OF THE TEMPORARY SHORING/WALLS EXCEPT FOR BARRIER ABOVE TEMPORARY WALLS. PCB WITH THE MINIMUM REQUIRED CLEAR DISTANCE IS REQUIRED ABOVE TEMPORARY WALLS.

6-

USE NCDOT PORTABLE CONCRETE BARRIER (PCB) IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1170.01 AND SECTION 1170 OF THE STANDARD SPECIFICATIONS.

7-

SET PCB WITH A MINIMUM HORIZONTAL DISTANCE OF 2 FT BETWEEN THE FRONT FACE OF THE BARRIER AND THE EDGE OF THE NEAREST TRAFFIC LANE AS SHOWN IN FIGURE A UNLESS OTHERWISE SHOWN IN THE PLANS OR APPROVED BY THE ENGINEER.

8-

FOR PCB ABOVE AND BEHIND TEMPORARY WALLS, PROVIDE A MINIMUM DISTANCE OF 3 FT BETWEEN THE EDGE OF PAVEMENT AND THE WALL FACE AS SHOWN IN FIGURE A. IF THIS MINIMUM REQUIRED DISTANCE IS NOT AVAILABLE, CONTACT THE ENGINEER.

9-

TABLE SHOWN IN FIGURE B IS BASED ON NCDOT RESEARCH PROJECT NO. 2005-010 WITH VEHICLE TYPE USED FOR NCHRP 350 CRASH TESTS.

PROJ. REFERENCE NO.
R-5901

SHEET NO.
TMP-2

KCA

301 FAYETTEVILLE STREET
SUITE 1500
RALEIGH, NC 27601
(919) 882-7839
NC FIRM LICENSE: C-1506

Barrier Type	Pavement Type	Offset * ft	Design Speed, mph						
			<30	31-40	41-50	51-60	61-70	71-80	
Unanchored PCB	Asphalt	<8	24	26	29	32	36	40	
		8-14	26	28	31	35	38	42	
		14-20	27	29	34	36	39	43	
		20-26	28	31	35	38	40	44	
		26-32	29	32	36	39	42	45	
		32-38	30	34	38	41	43	46	
		38-44	31	34	41	43	45	48	
		44-50	31	35	41	43	46	49	
	Concrete	50-56	32	36	42	44	47	50	
		>56	32	36	42	45	47	51	
		<8	17	18	21	22	25	26	
		8-14	19	20	23	25	26	29	
		14-20	22	22	24	26	28	31	
		20-26	23	24	26	27	30	34	
		26-32	24	25	27	28	32	35	
		32-38	24	26	27	30	33	36	
Anchored PCB	Asphalt	All Offsets	24 for All Design Speeds						
Anchored PCB	Concrete (including bridge approach slabs)	All Offsets	12 for All Design Speeds						

* See Figure Below

FIGURE B

APPROVED:

Signed by:

DAVID P. BRANDIS

01ERE30CF38F4B2

DATE: 6/30/2025

SEAL

NO. 14 CAROLINA

PROFESSIONAL

SEAL

043669

ENGINEER

DAVID P. BRANDIS

DIVISION OF HIGHWAYS

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

WORK ZONE TRAFFIC CONTROL

PORTABLE CONCRETE BARRIER AT TEMPORARY SHORING LOCATIONS

SHORING NOTES

NOTES FOR TEMPORARY SHORING No. 1

SHORING LOCATION NO.	BEGIN STA. & OFFSET	END STA. & OFFSET	ESTIMATED AVERAGE HEIGHT	ESTIMATED MAXIMUM HEIGHT	SHORING LOCATION TYPE
NO. 1	-L- STA. 16+00±, 19.5 FT RIGHT	-L- STA. 18+17±, 25 FT RIGHT	2.0 FT	2.0 FT	ROADWAY

IF SPACE ALLOWS, A 1.5:1 (H:V) SLOPE OR FLATTER MAYBE USED INSTEAD OF TEMPORARY SHORING FROM STATION 16+00± -L-, 19.5 FT. RIGHT TO STATION 18+17± -L-, 25 FT. RIGHT.

FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.

BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.

DESIGN TEMPORARY SHORING FROM STATION 16+00± -L-, 19.5 FT. RIGHT TO STATION 18+17± -L-, 25 FT. RIGHT FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT (γ) = 120 PCF
FRICTION ANGLE (ϕ) = 30 DEGREES
COHESION (c) = 0 PSF
GROUNDWATER ELEVATION = N/A FT

LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF TEMPORARY SHORING FROM STATION 16+00± -L-, 19.5 FT. RIGHT, TO STATION 18+17± -L-, 25 FT. RIGHT. THE INFORMATION PROVIDED FOR TEMPORARY SHORING DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

AT THE CONTRACTOR'S OPTION, USE A STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION 16+00± -L-, 19.5 FT. RIGHT, TO STATION 18+17± -L-, 25 FT. RIGHT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.

NOTES:

1. THIS SHEET IS INFORMATION FROM SIGNED TEMPORARY SHORING RECOMMENDATIONS MEMO FROM SHANE CLARK, P.E., NCDOT GEOTECHNICAL ENGINEERING UNIT - WESTERN REGION DATED JUNE 10, 2025.

APPROVED:

Signed by:

Darren P. Brandes

01EBE30CF38F4B2

DATE: 6/30/2025

SEAL

01EBE30CF38F4B2

SEAL

043669

ENGINEER

DARREN P. BRANDES

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UNLESS ALL SIGNATURES COMPLETED

DIVISION OF HIGHWAYS

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

WORK ZONE TRAFFIC CONTROL

TEMPORARY SHORING DATA

PROJ. REFERENCE NO.	SHEET NO.
R-5901	TMP-2B

[illegible]

DESIGN BY: A. MCSWAIN
PROJECT ID: R5901

CHECKED BY: J. DEBONE

Aug 16, 2024
DIV: 11



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS


[illegible]

FILENAME: R5901_SGN_GS

NORTH CAROLINA D.O.T. SIGN DETAIL

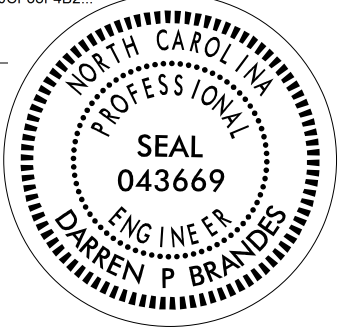
APPROVED: Darren P. Brandes
01E9E30CF38F4B2

DATE: 6/30/2025

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DATE: 6/30/2025

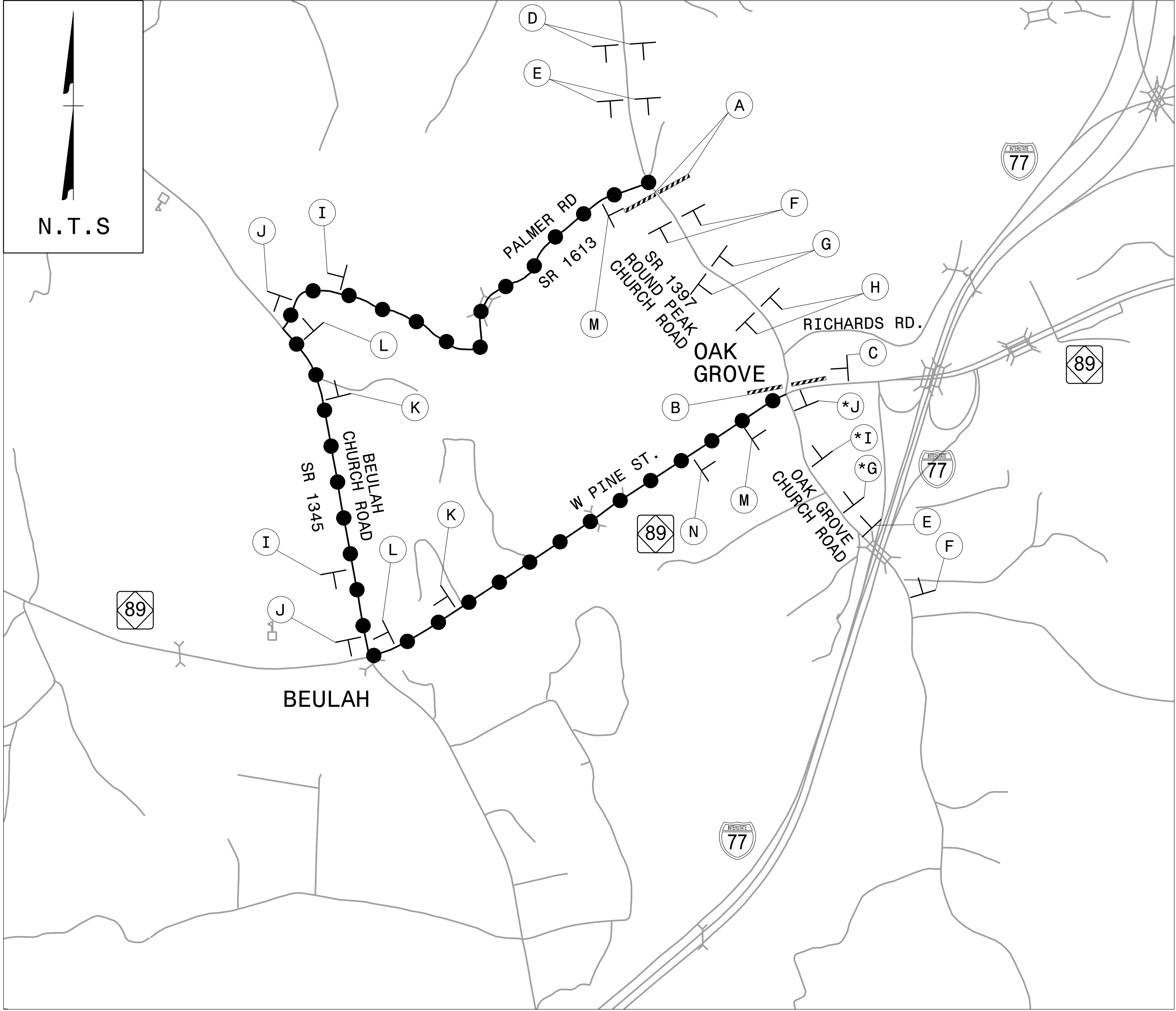
SEAL



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-Y2- OAK GROVE
CHURCH ROAD
(SR 1397)
SIGN DESIGN
(SD-2)

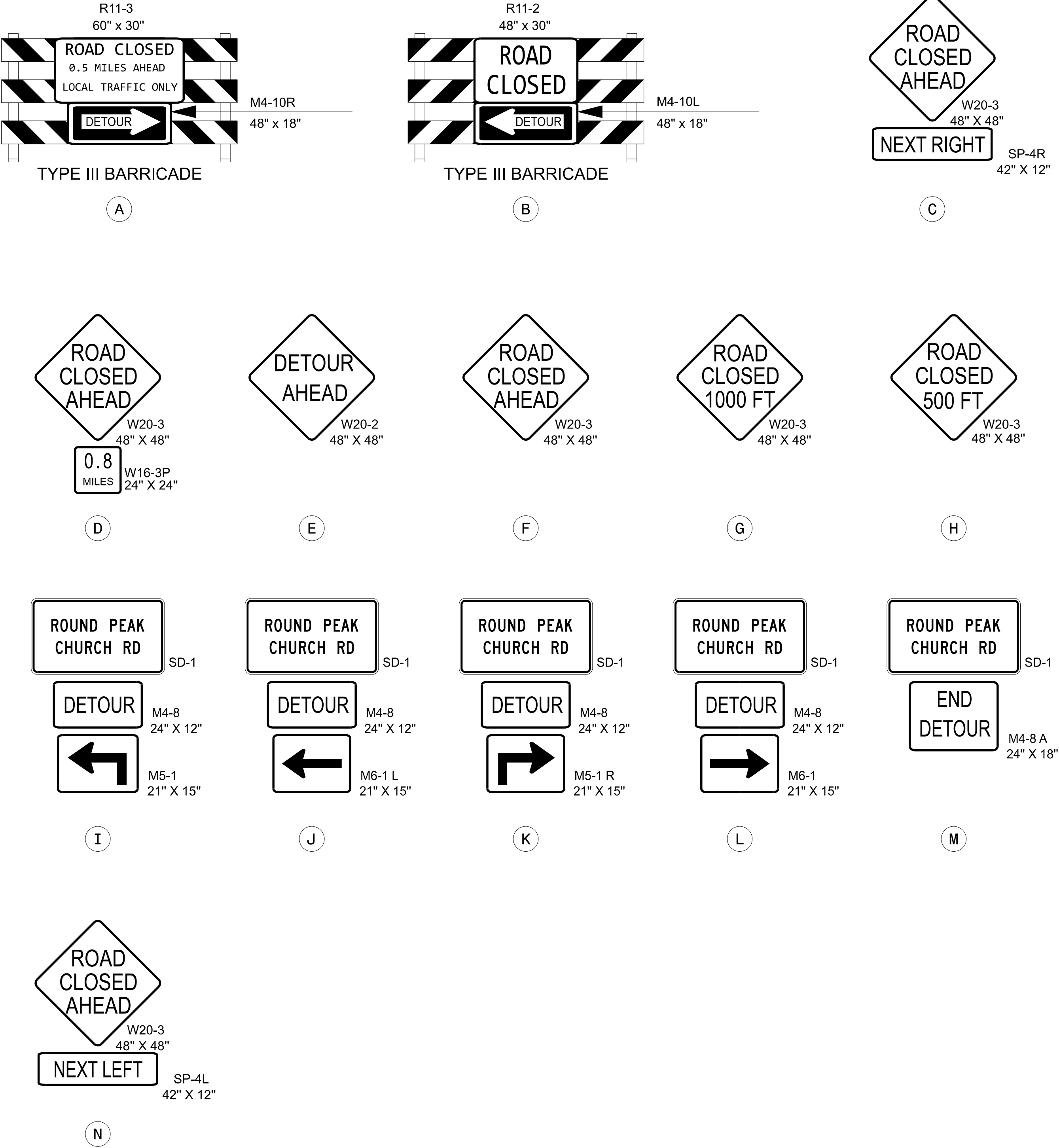


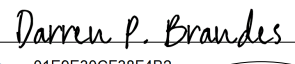
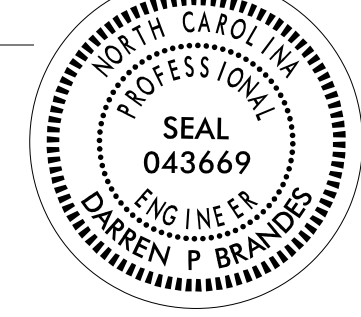
DETOUR ROUTE:


NORTH: NC 89 (W. PINE ST.) TO SR 1345 (BEULAH CHURCH RD) TO SR 1613 (PALMER RD)
SOUTH: SR 1613 (PALMER RD) TO SR 1345 (BEULAH CHURCH RD) TO NC 89 (W. PINE ST.)

NOTES:

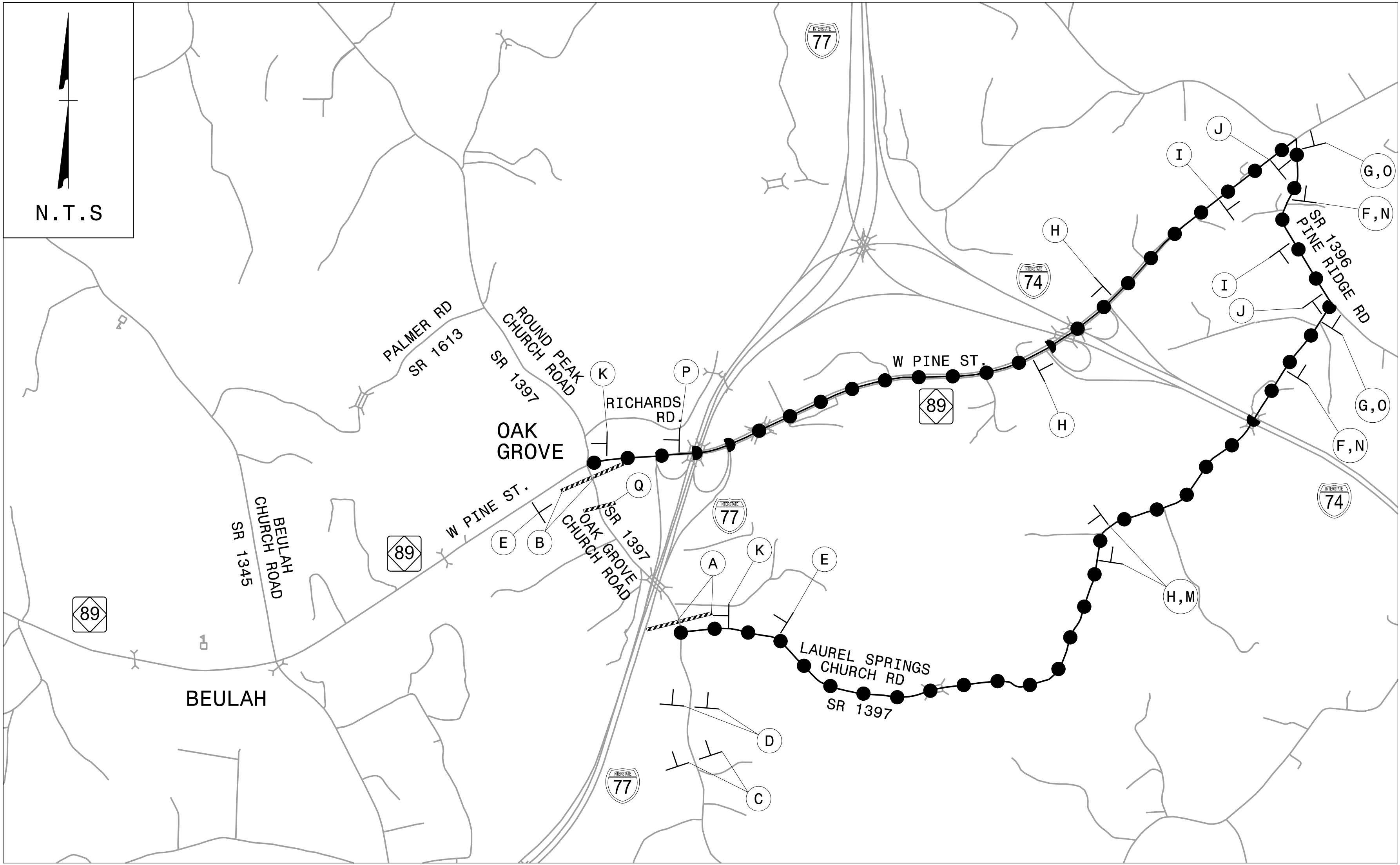
1. TRAFFIC CONTROL DEVICES (A) THRU (N) SHALL BE INSTALLED PER ENGINEER'S INSTRUCTIONS.
 2. FOR ALL SIGN SPACING REFER TO RSD 1101.03 SHEET 1 OF 9 AND RSD 1101.11 SHEET 4 OF 4 UNLESS OTHERWISE NOTED ON THIS SHEET.
- * SIGNS WILL NEED TO BE ADJUSTED TO FOLLOW THE -Y- DETOUR ALIGNMENTS.



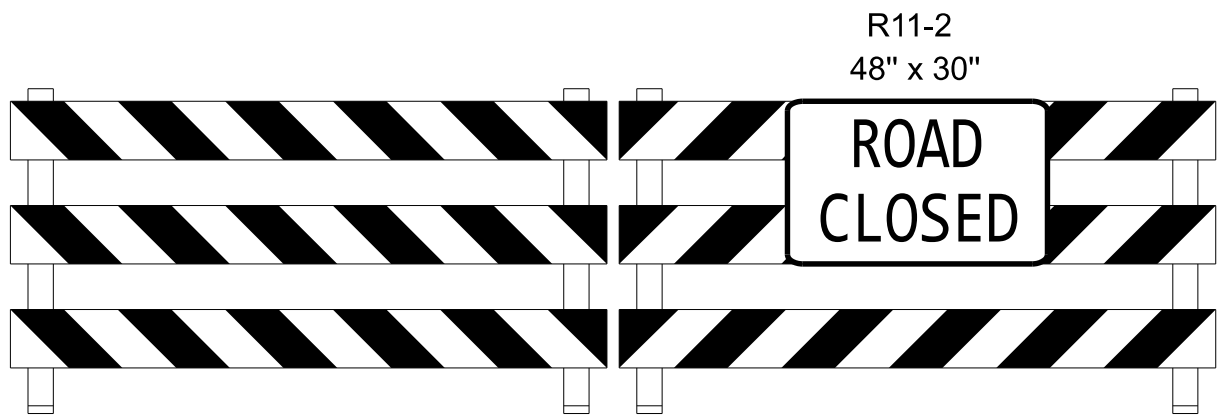
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DATE: 6/30/2025
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-Y1-
ROUND PEAK
CHURCH ROAD
(SR 1397)
OFFSITE DETOUR



N.T.S

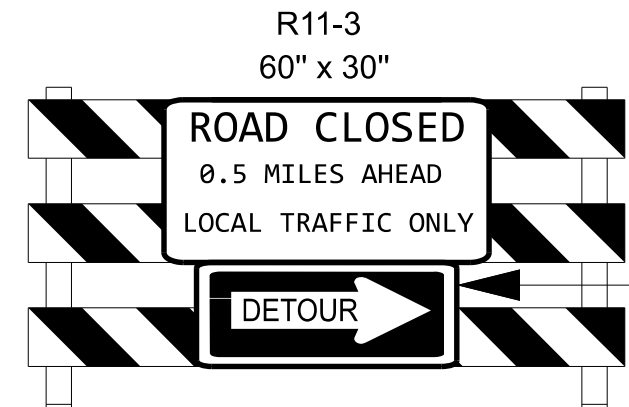


DETOUR ROUTE:

NORTH: SR 1397 (LAURAL SPRINGS CHURCH RD) TO SR 1396 (PINE RIDGE RD) TO NC 89 (W. PINE ST.)
SOUTH: NC 89 (W. PINE ST.) TO SR 1396 (PINE RIDGE RD) TO SR 1397 (LAURAL SPRINGS CHURCH RD)

NOTES:

1. TRAFFIC CONTROL DEVICES (A) THRU (Q) SHALL BE INSTALLED PER ENGINEER'S INSTRUCTIONS.
2. FOR ALL SIGN SPACING REFER TO RSD 1101.03 SHEET 1 OF 9 AND RSD 1101.11 SHEET 4 OF 4 UNLESS OTHERWISE NOTED ON THIS SHEET.

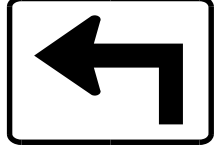


TYPE III BARRICADE

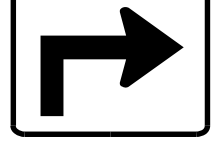
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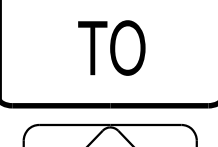
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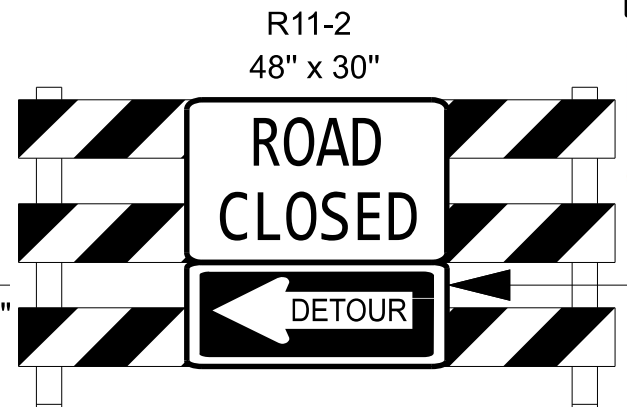
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(I)



(N)

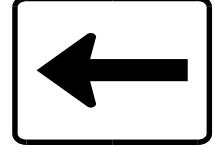


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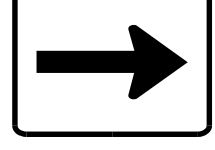
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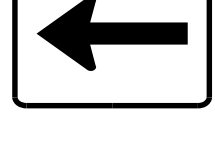
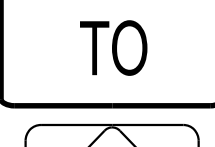
(D)



(G)



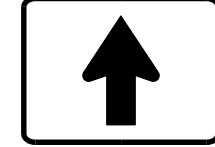
(J)



(O)



(E)



(H)



(K)

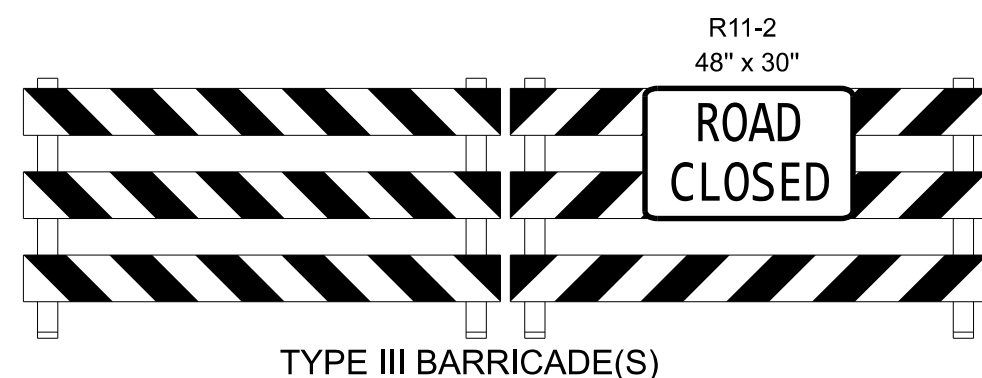


(P)

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DATE: 6/30/2025
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-Y2-
OAK GROVE
CHURCH ROAD
(SR 1397)
OFFSITE DETOUR



2

REMOVE EXISTING STOP SIGN AND
REPLACE WITH TEMPORARY STOP SIGN

CONSTRUCT TEMPORARY WEDGING ON EXISTING -L1-
-L2- AND -Y2- AS A LAST ITEM PRIOR TO
SWITCHING TO PHASE 2 LANE CONFIGURATION.
SEE ROADWAY PLANS FOR TEMPORARY WEDGING
DETAILS.

BEGIN TEMPORARY WEDGING
-L1- STA 16+20+/-

JACK & BORE PROPOSED CROSS PIPE

JACK & BORE PROPOSED CROSS PIPE

```
-L1- STA 10+39
BEGIN P20
MATCH EXIST EDGE LINE
```

NC 89 (W PINE ST)

PT -L1- STA 11+97

-DRUMS AT 40' SPA.
• 1

PC -L1- STA 10+39
4' RT OF EXIST EDGE LINE
- BEGIN TEMP PAVT
CONNECT EXISTING GUARDRAIL
TO TEMPORARY GUARDRAIL

INSTALL SIGNAGE PER
RSD 1101.04 SHEET 1
OF 2 FOR SHOULDER
CLOSURES

-L1- STA 16+13
TEMP GREU TL-3
TEMPORARY RIP-RAP
(10' WIDTH)
PC -L1- STA 16+74.3
57.3 RT

TEMP JUNCTION BOX. CONNECT TEMP
PIPE TO EXIST PIPE.

-Y2- DETOUR 1
SEE ROADWAY PLANS
-Y2- DETOUR 2
SEE ROADWAY PLANS

CONSTRUCT TEMPORARY WEDGING ON EXISTING -L1-
-L2- AND -Y2- AS A LAST ITEM PRIOR TO
SWITCHING TO PHASE 2 LANE CONFIGURATION.
SEE ROADWAY PLANS FOR TEMPORARY WEDGING
DETAILS.

```
-L- STA 13+30.8
BEGIN P20
MATCH EXIST EDGE LINE
```

END TEMPORARY WEDGING
-L2- STA 10+93.5+/-

T -L2- STA 13+30.8
RT OF EXIST EDGE LINE
WD TEMP PAVT

NC 89 (W PINE ST)

-L2- STA 10+93.6

29' RT
STA 10+06.7

TEMP JUNCTION BOX. CONNECT TEMP
PIPE TO EXIST PIPE. TOP EL BELOW
TEMP PAVT

MP 18" PIPE

DRUMS AT 10' SPA.

REMOVE CONCRETE ISLAND
CONST TEMP PAVT
INSTALL 6" DOUBLE YELLOW
INSTALL YELLOW TUBULAR MARKERS
AT 10' SP

TEMPORARY WEDGING

TEMPORARY DI
STD 840.16

APPROVED: Darren P. Brande

DATE: 7/16/2025

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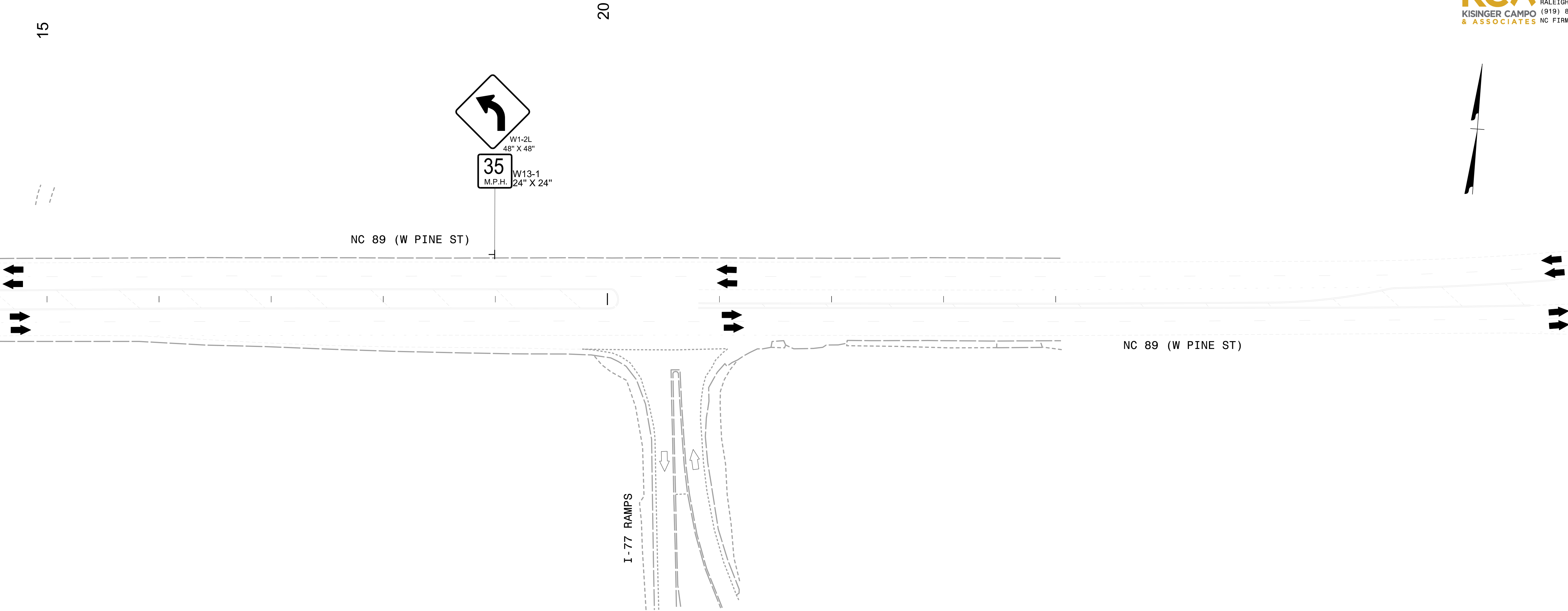
PHASE 1
(SHEET 1 OF 3)

7/16/2025
R5901TC_TMP_Phase I_PSH.dgn
User:dbrandes

PROJ. REFERENCE NO.	SHEET NO.
R-5901	TMP-6

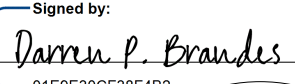
KCA
KISINGER CAMPO
& ASSOCIATES
301 FAYETTEVILLE STREET
SUITE 1500
RALEIGH, NC 27601
(919) 882-7839
NC FIRM LICENSE: C-1506

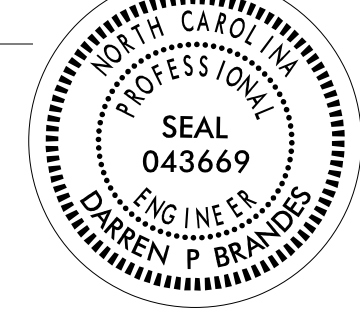
MATCH LINE - I-2- STA 14+50.00 TMP-5



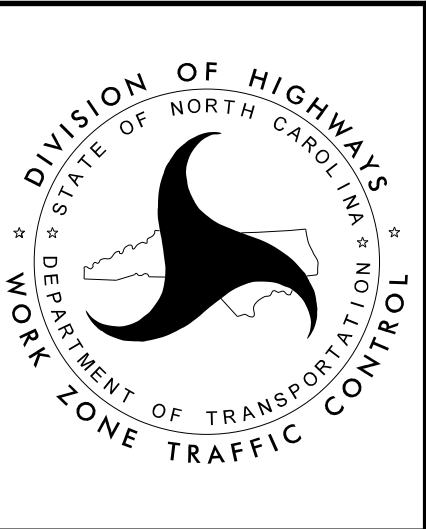
NOTES:

1. TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PER ENGINEER'S INSTRUCTIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRIVEWAY ACCESS THROUGHOUT THE LIFE OF THE PROJECT.
3. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY CONFLICTING PAVEMENT MARKINGS THROUGHOUT THE PROJECT LIMITS.

APPROVED: 
DATE: 6/30/2025

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UNLESS ALL SIGNATURES COMPLETED

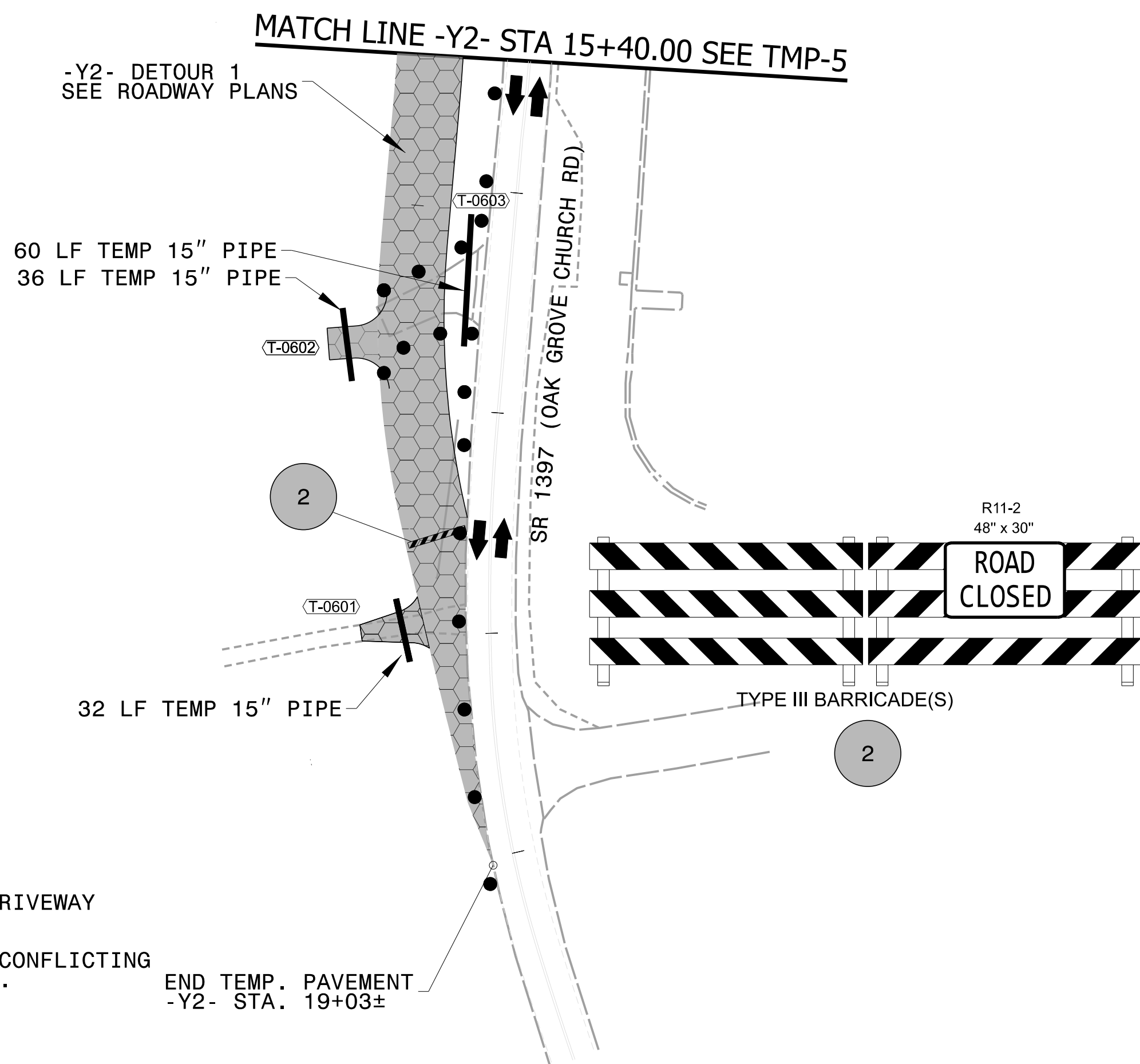
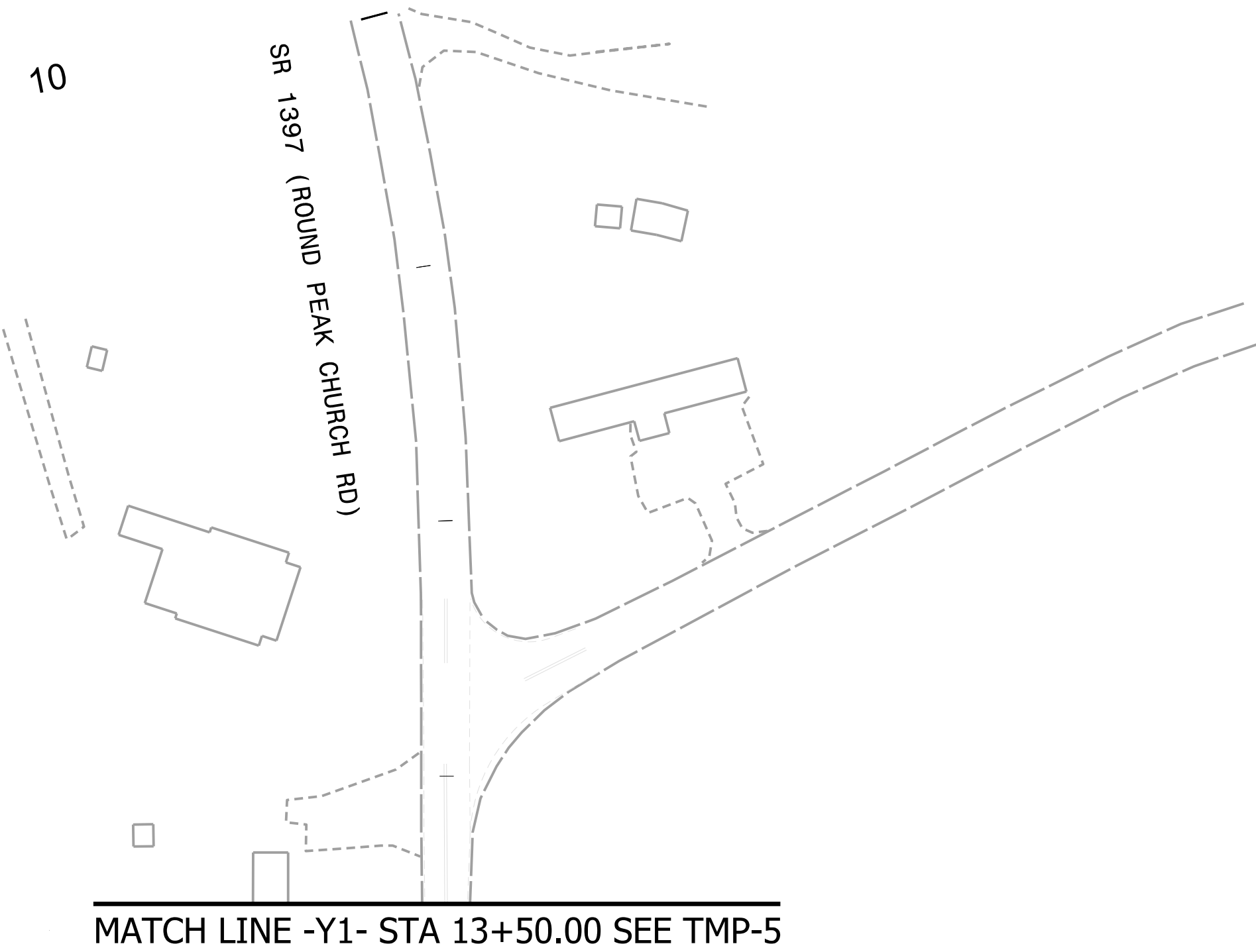


PHASE 1
(SHEET 2 OF 3)

PROJ. REFERENCE NO.	SHEET NO.
R-5901	TMP-7

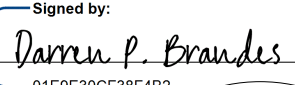
KCA
KISINGER CAMPO
& ASSOCIATES

301 FAYETTEVILLE STREET
SUITE 1500
RALEIGH, NC 27601
(919) 882-7839
NC FIRM LICENSE: C-1506

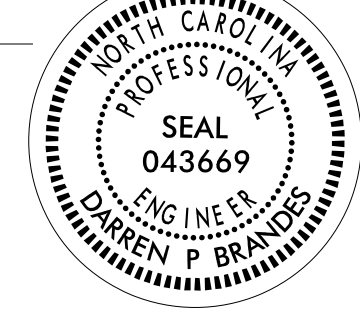


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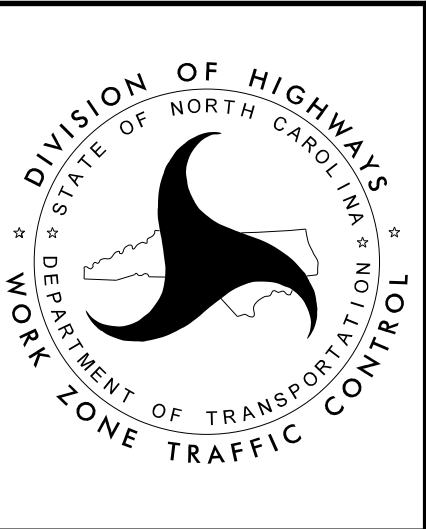
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DATE: 6/30/2025

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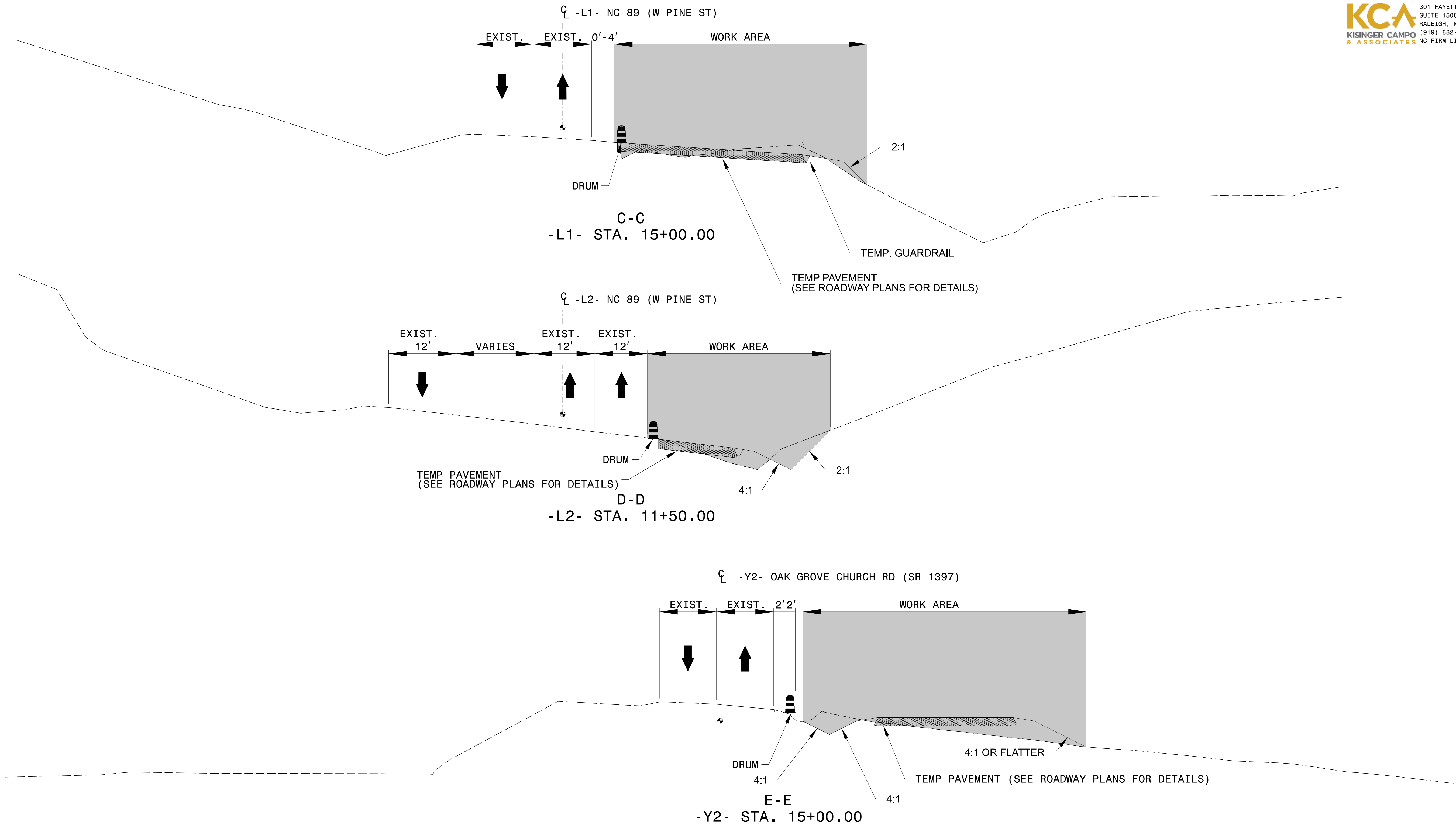
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PHASE 1
(SHEET 3 OF 3)

PROJ. REFERENCE NO.	SHEET NO.
R-5901	TMP-8

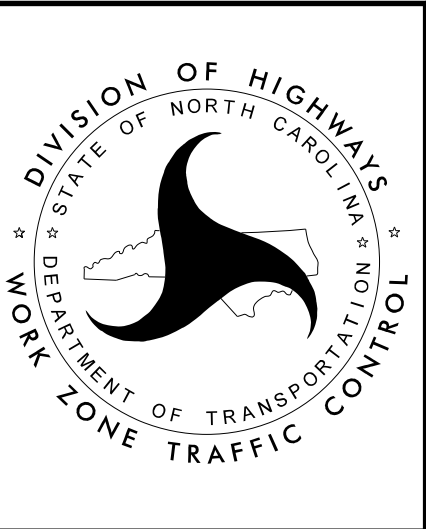
KCA
KISINGER CAMPO
& ASSOCIATES
301 FAYETTEVILLE STREET
SUITE 1500
RALEIGH, NC 27601
(919) 882-7839
NC FIRM LICENSE: C-1506



NOTES:

1. FOR ALL PROPOSED SLOPES PLEASE SEE ROADWAY CROSS SECTIONS.

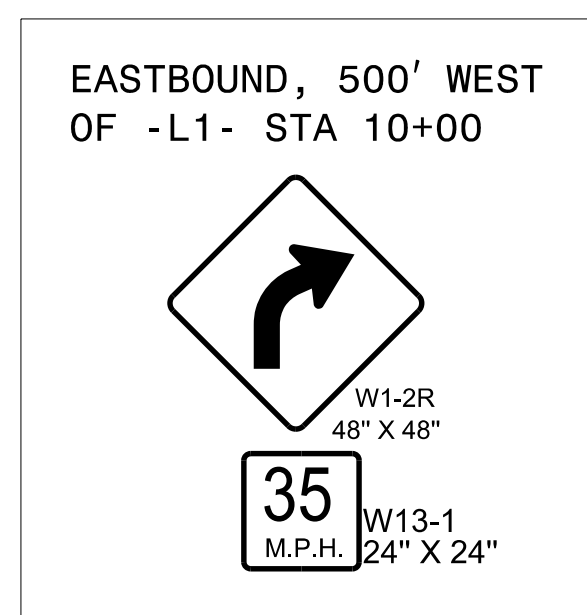
APPROVED: _____	Signed by: <i>Darren P. Brandes</i> 01EBE30CF38F4B2
DATE: 6/30/2025	
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**PHASE 1
CUT SECTIONS**

1. FOR ALL PROPOSED SLOPES PLEASE SEE ROADWAY CROSS SECTIONS.


PHASE 1
CUT SECTIONS



BEGIN 4' TEMP. PAVEMENT
ON PROPOSED SHOULDER
-L1- STA. 15+27
DO NOT CONSTRUCT PROPOSED
CURB & GUTTER.

DO NOT CONSTRUCT CONCRETE
ISLAND ON -Y1- THIS PHASE

DO NOT CONSTRUCT CURB & GUTTER
ON CENTRAL ISLAND THIS PHASE



END TEMP. PAVEMENT
-RAB- STA. 13+02.9

BEGIN TEMP. PAVEMENT
-L2- STA. 10+75
56' LT

DO NOT INSTALL CURB AND GUTTER
ON -L2- THIS PHASE.

CONNECT PROPOSED PIPE
TO TEMPORARY PIPE
WITH CONCRETE COLLAR

ANCHORED PCB
60 LF TEMP 15" PIPE.
CONNECT TO
PROPOSED PIPE.

BEGIN TEMP. WED
-L2- STA. 12+04
14' LT

END PCB, -L2- STA. W2-2L
12+07 3' RT 48" X 48"

END TEMP. PAVEMENT
-L2- STA. 13+18
39' LT
END TEMP. PAVEMENT
-L2- STA. 13+20
6' LT

BEGIN P20
-L1- 70' PRIOR TO
-L1- STA. 10+00.00
MATCH EXIST EDGE LINE

END TEMP. PAVEMENT
-L1- STA. 12+40
17' LT

END PCB -L1 -
STA. 13+97

BEGIN TEMP. PAVEMENT
-L1- 40' PRIOR TO
-L1- STA. 10+00.00

```
PC -L1- STA. 10+39
—MATCH EXIST EDGE LINE
BEGIN P20
```

```
BEGIN P33
-L1- STA. 10+39
MATCH EXIST
CENTER LINE
```

BEGIN P20
- MATCH EXIST EDGE LINE
- L1- STA. 10+39

ANCHORED PCB
PT -L1- STA 12+00
5' LT

BEGIN SHORING #1
-L1- STA 16+00
19.5' RT 

DETOUR 2
DETOUR 1

BEGIN PCB -L1
STA. 15+63 (T-0406)
TEMP. CRASH
CUSHION
PC -L1- STA 17+31
35.3' RT

CONSTRUCT TEMPORARY PAVEMENT
WITHIN CENTRAL ISLAND TO
MATCH ADJACENT PROPOSED
PAVEMENT. SEE SECTIONS
A-A AND B-B.

PLUG PIPE END TEMPORARILY
0415 AND 0416 ARE NONFUNCTIONAL
UNTIL PHASE 3B

BEGIN TEMP. PAVEMENT
-L2- STA. 14+22±

W2-4
48" X 48"

MAINTAIN DRIVEWAY TRAFFIC THIS PHASE.
COORDINATE WITH PROPERTY OWNER WHEN
WORK AFFECTS DRIVEWAY ACCESS.

1. TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PER ENGINEER'S INSTRUCTIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRIVEWAY ACCESS THROUGHOUT THE LIFE OF THE PROJECT.
3. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY CONFLICTING PAVEMENT MARKINGS THROUGHOUT THE PROJECT LIMITS.
4. SEE TMP-13 FOR CUT SECTIONS C-C THRU E-E.
5. SEE TMP-14 FOR CUT SECTIONS A-A THRU B-B.

1 QUANTITY = 434 SF

TEMPORARY SHORING
FROM STA. 16+00.00, 19.5' RT
TO STA. 18+17.00, 25' RT

(SEE SHEET TMP-2A FOR
TEMPORARY SHORING NOTES)

TEMP. PAVEMENT
PLACED IN PHASE 1

MATCH LINE -Y2- STA 15+40.00 SEE TMP-12

APPROVED: _____

DATE: 7/25/2025

Signed by: Darren P. Brande

25/2025

SEAL

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PHASE 2
(SHEET 1 OF 3)



1. TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PER ENGINEER'S INSTRUCTIONS.
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Signed by: James P. Brandes
01EBE30C3F8F4B2.

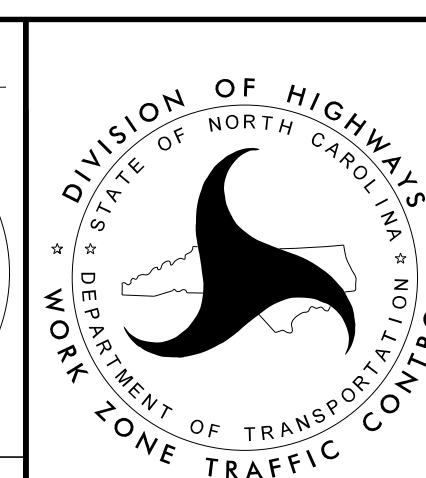
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DATE: 7/25/2025

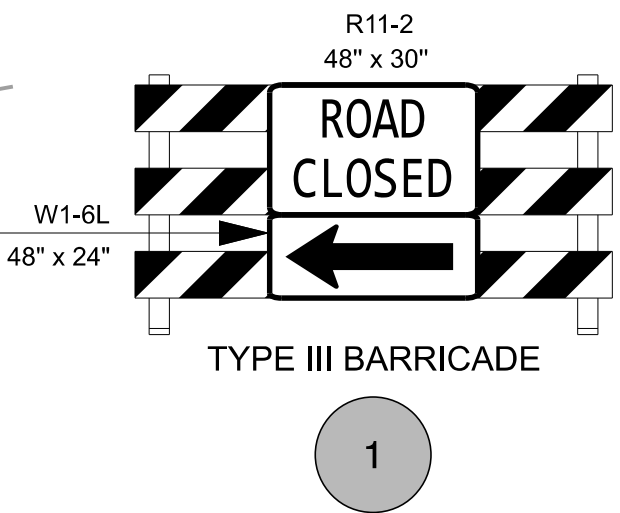
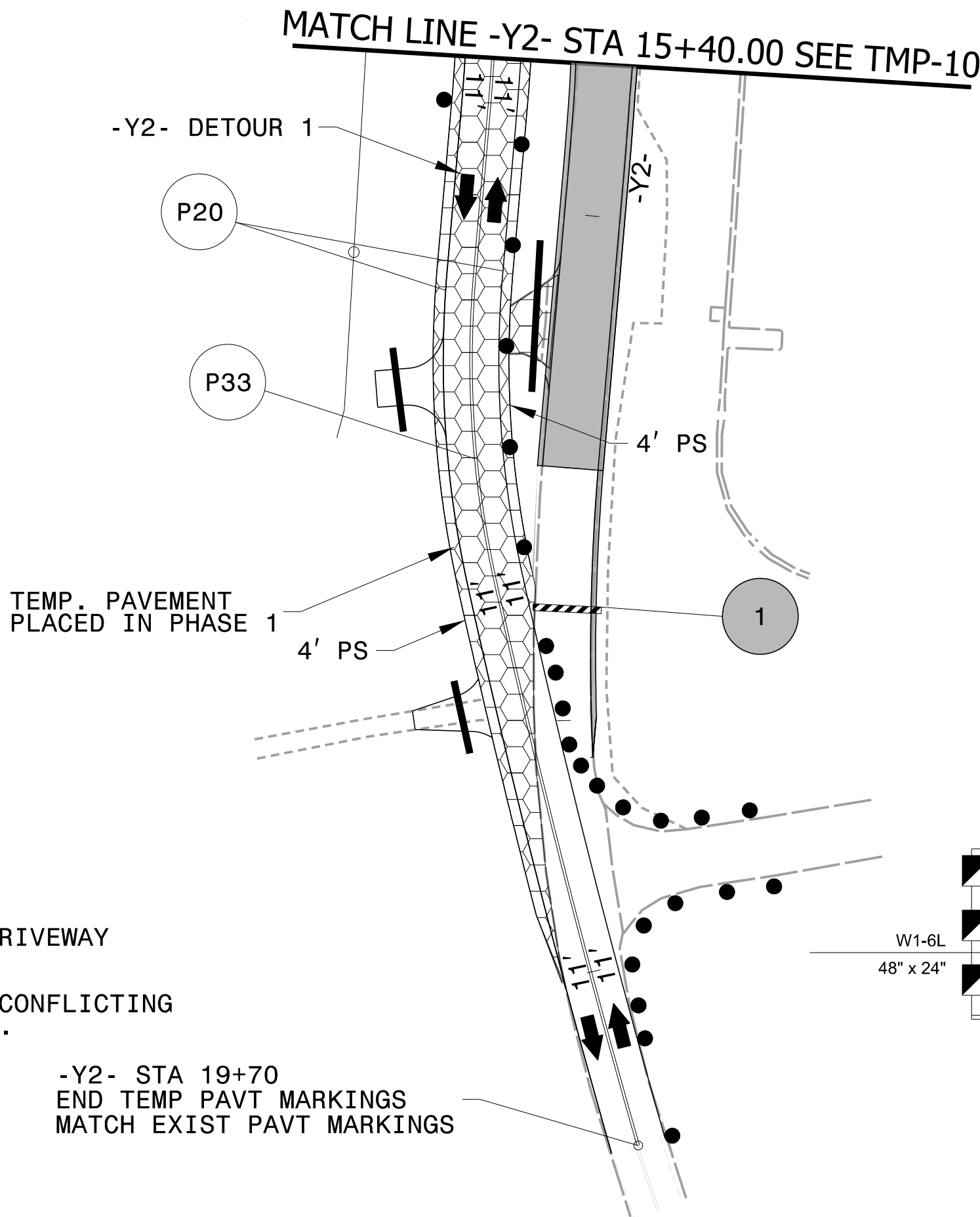
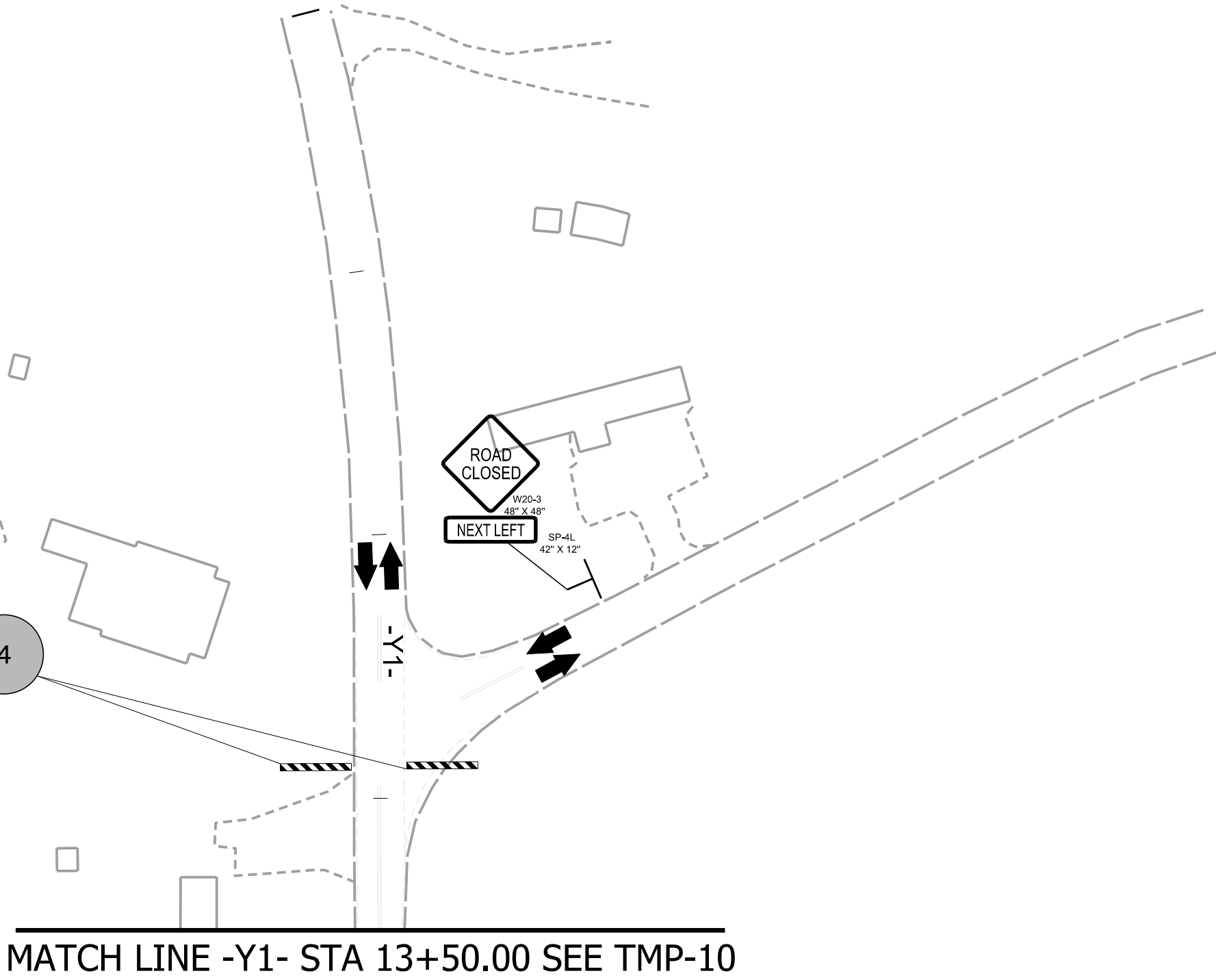
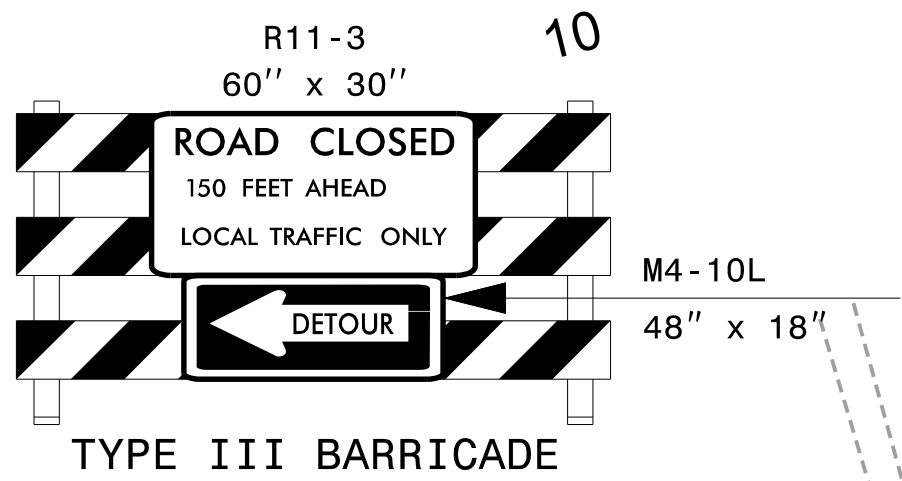
SEAL

NOX CAROLINA
PROFESSIONAL
SEAL
043669
ENGINEER
JAMES P. BRANDES

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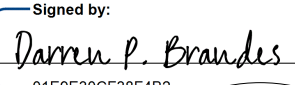


PHASE 2
(SHEET 2 OF 3)



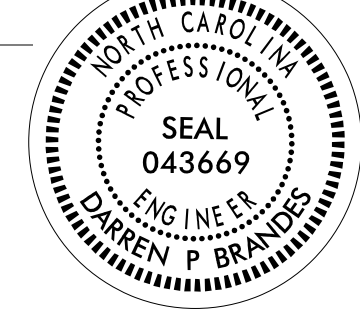
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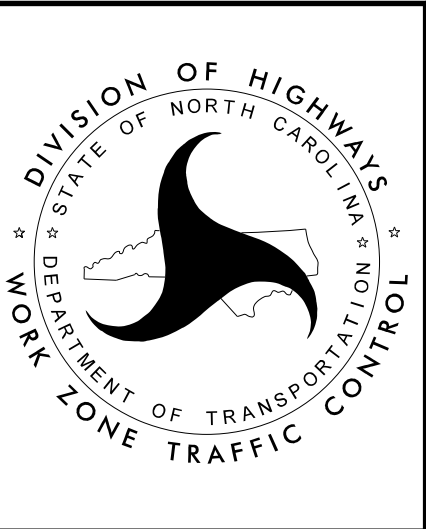
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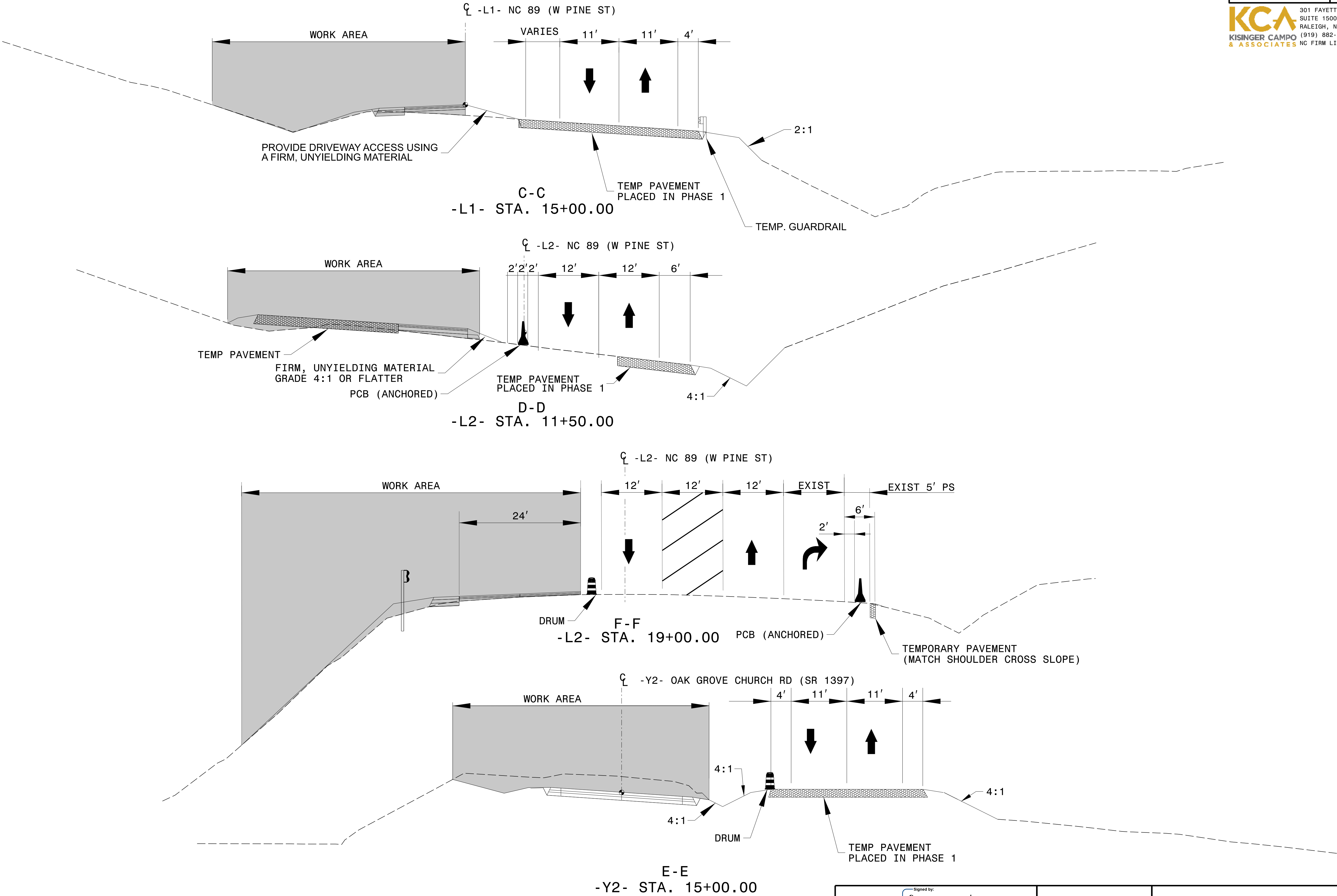
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PHASE 2
(SHEET 3 OF 3)



NOTES:

1. FOR ALL PROPOSED SLOPES PLEASE SEE ROADWAY CROSS SECTIONS.

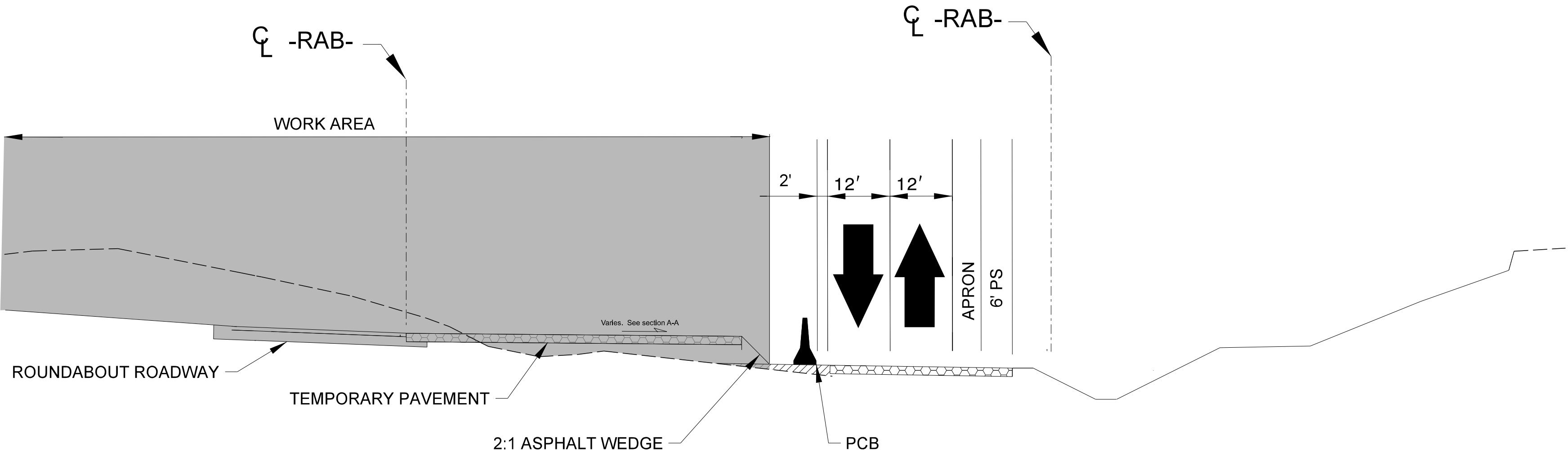
APPROVED: *Darren P. Brandes*
DATE: 7/16/2025

SEAL

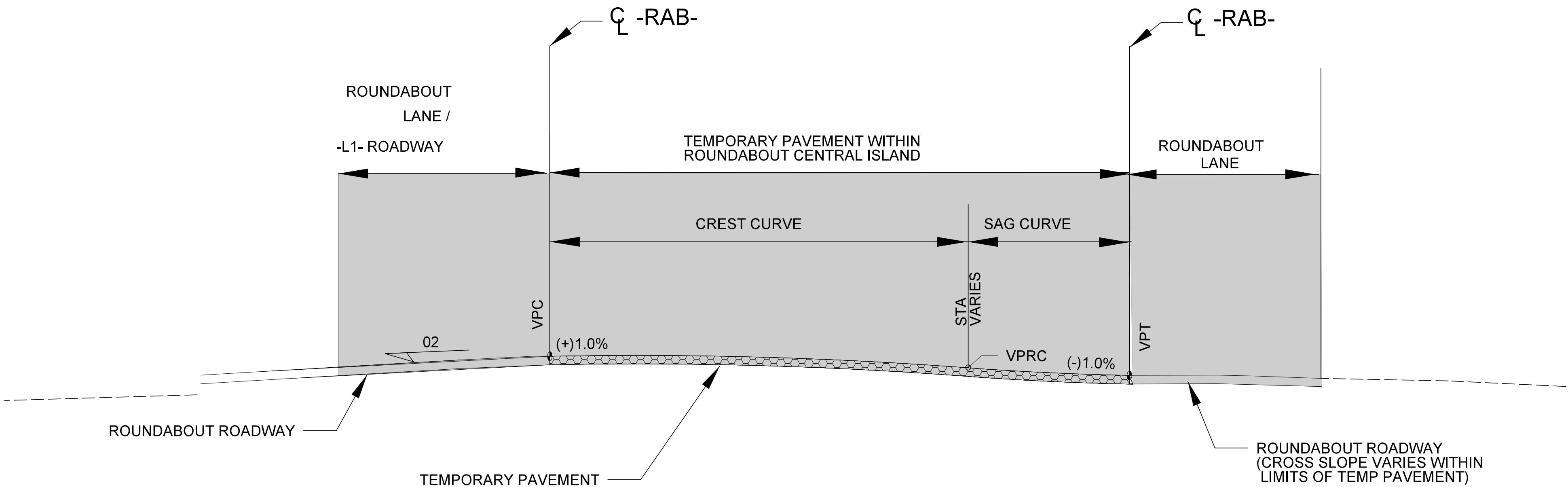
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UNLESS ALL SIGNATURES COMPLETED

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

PHASE 2
CUT SECTIONS



B-B
-RAB- STA 10+13.20



A-A
-RAB- STA 11+13.10

NOTES:

1. FOR ALL PROPOSED SLOPES PLEASE SEE ROADWAY CROSS SECTIONS.

APPROVED:

Signed by:

Darren P. Brandes

01EBE30CF38F4B2

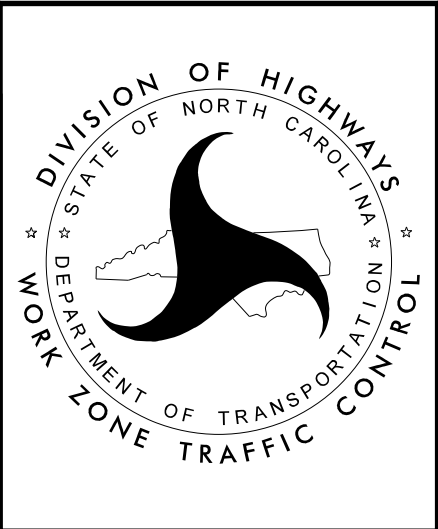
DATE:

7/16/2025

SEAL

PROFESSIONAL
ENGINEER
SEAL
043669
DARREN P. BRANDES

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



PHASE 2
CUT SECTIONS

MATCH LINE -Y1- STA 13+50.00 SEE PHASE 3B, TMP-18

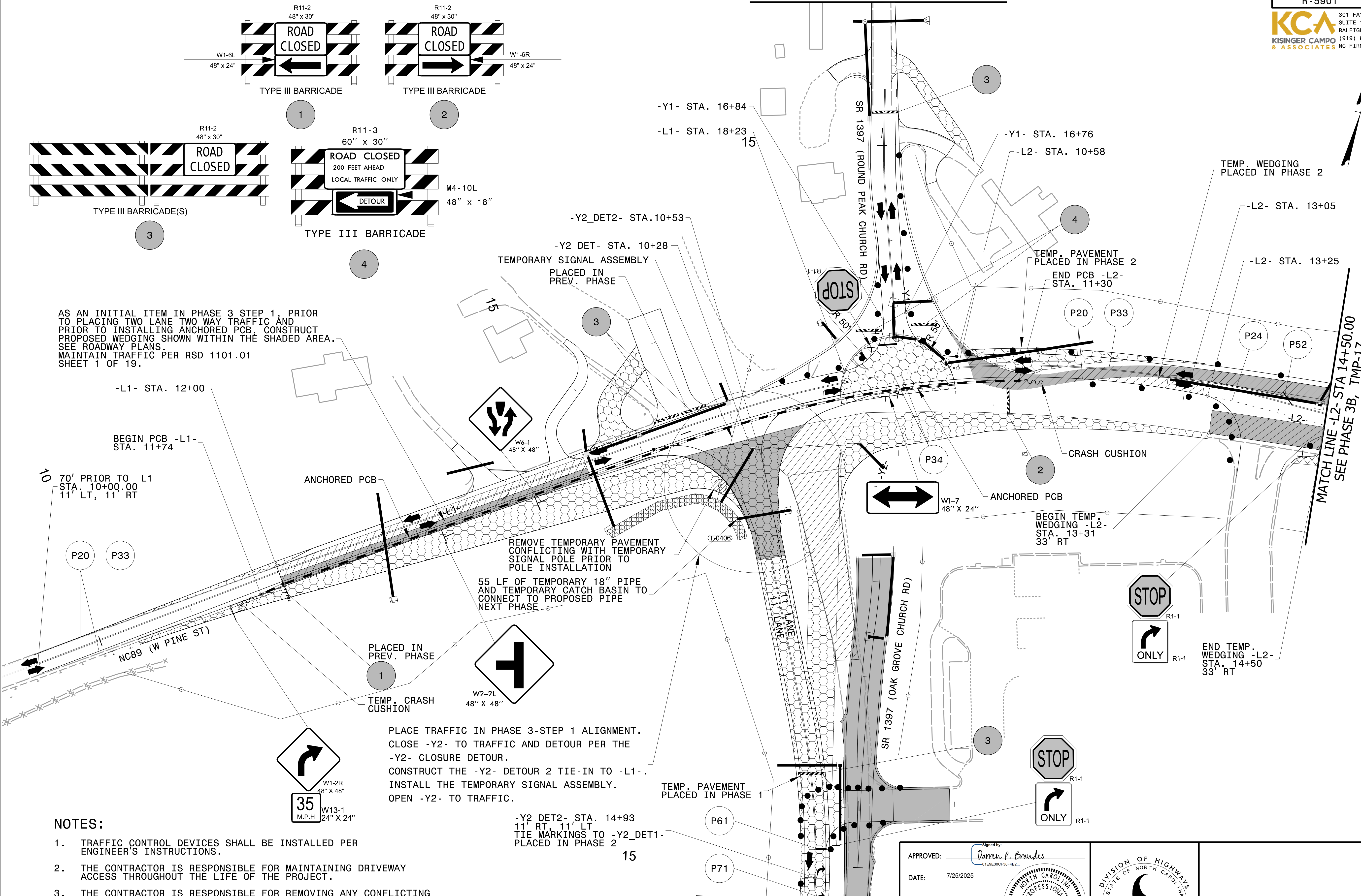
PROJ. REFERENCE NO.
R-5901

SHEET NO.
TMP-15

KCA

KISINGER CAMPO
& ASSOCIATES

301 FAYETTEVILLE STREET
SUITE 1500
RALEIGH, NC 27601
(919) 882-7839
NC FIRM LICENSE: C-1506



AS AN INITIAL ITEM IN PHASE 3 STEP 1, PRIOR TO PLACING TWO LANE TWO WAY TRAFFIC AND PRIOR TO INSTALLING ANCHORED PCB, CONSTRUCT PROPOSED WEDGING SHOWN WITHIN THE SHADED AREA. SEE ROADWAY PLANS. MAINTAIN TRAFFIC PER RSD 1101.01 SHEET 1 OF 19.

NOTES:

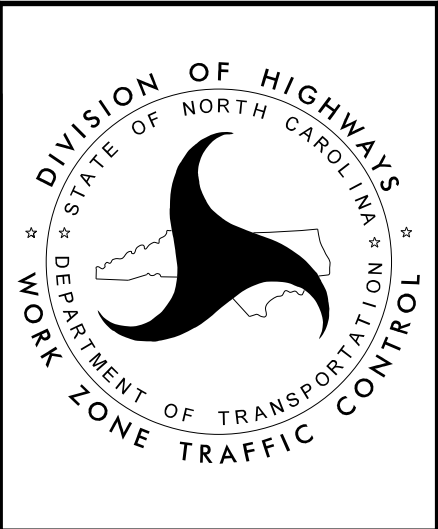
1. TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PER ENGINEER'S INSTRUCTIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRIVEWAY ACCESS THROUGHOUT THE LIFE OF THE PROJECT.
3. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY CONFLICTING PAVEMENT MARKINGS THROUGHOUT THE PROJECT LIMITS.
4. SEE TMP-16 FOR CUT SECTIONS C-C THRU E-E.
5. SEE TMP-21 FOR CUT SECTION F-F.

APPROVED:

DATE: 7/25/2025

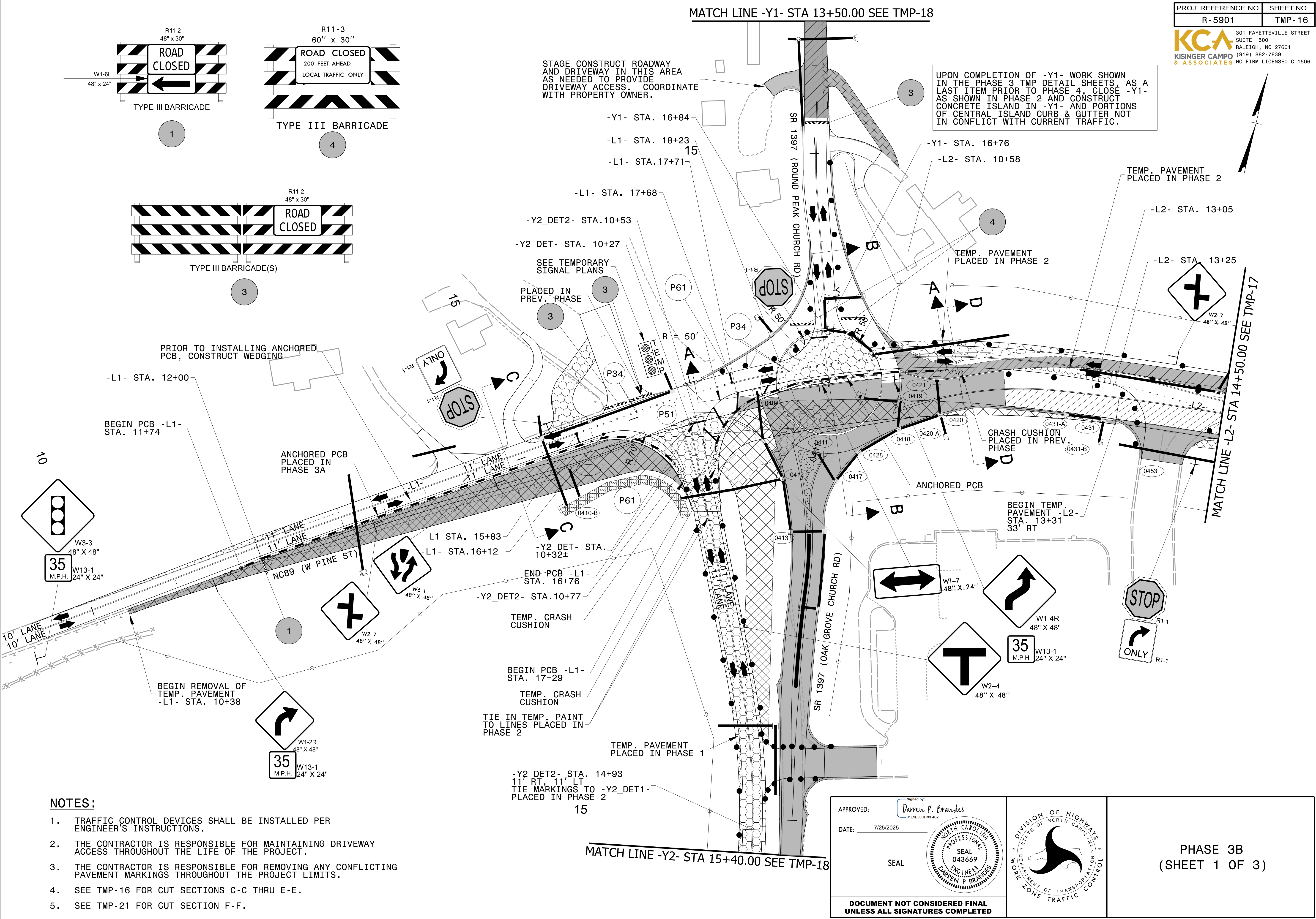
SEAL

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



PHASE 3A

7/25/2025
R5901.TC_TMP_Phase 3_Step 1.PSH.dgn
User: dbrandes

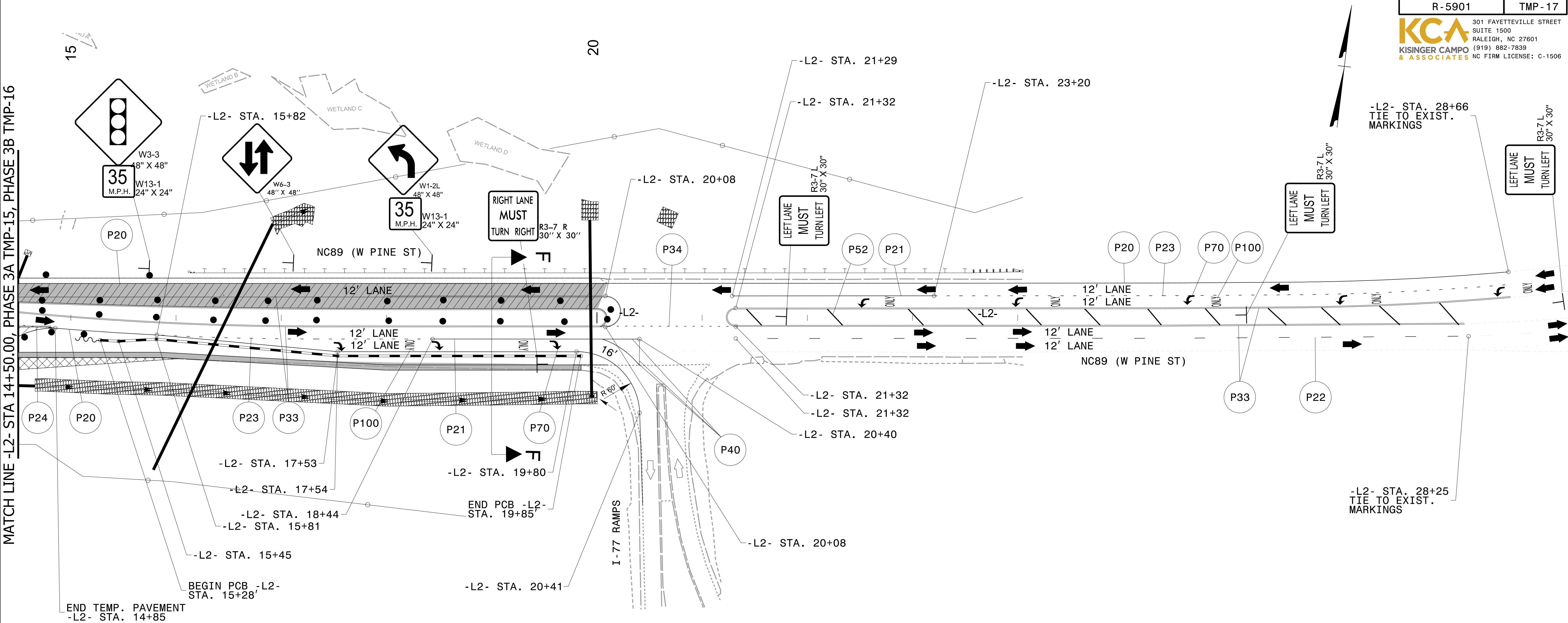


- NOTES:**
1. TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PER ENGINEER'S INSTRUCTIONS.
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 4. SEE TMP-16 FOR CUT SECTIONS C-C THRU E-E.
 5. SEE TMP-21 FOR CUT SECTION F-F.

<p>APPROVED: <i>Darren P. Brandes</i> DATE: 7/25/2025</p> <p>SEAL</p> <p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>	<p>Seal of the State of North Carolina, Department of Transportation, Division of Highways, Work Zone Traffic Control.</p>	<p>PHASE 3B (SHEET 1 OF 3)</p>
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7/25/2025
R5901.TC_TMP_Phase 3_PSH.dgn
User: dbrandes

MATCH LINE -L2- STA 14+50.00, PHASE 3A TMP-15, PHASE 3B TMP-16



NOTES:

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APPROVED: 
DATE: 7/25/2025

SEAL

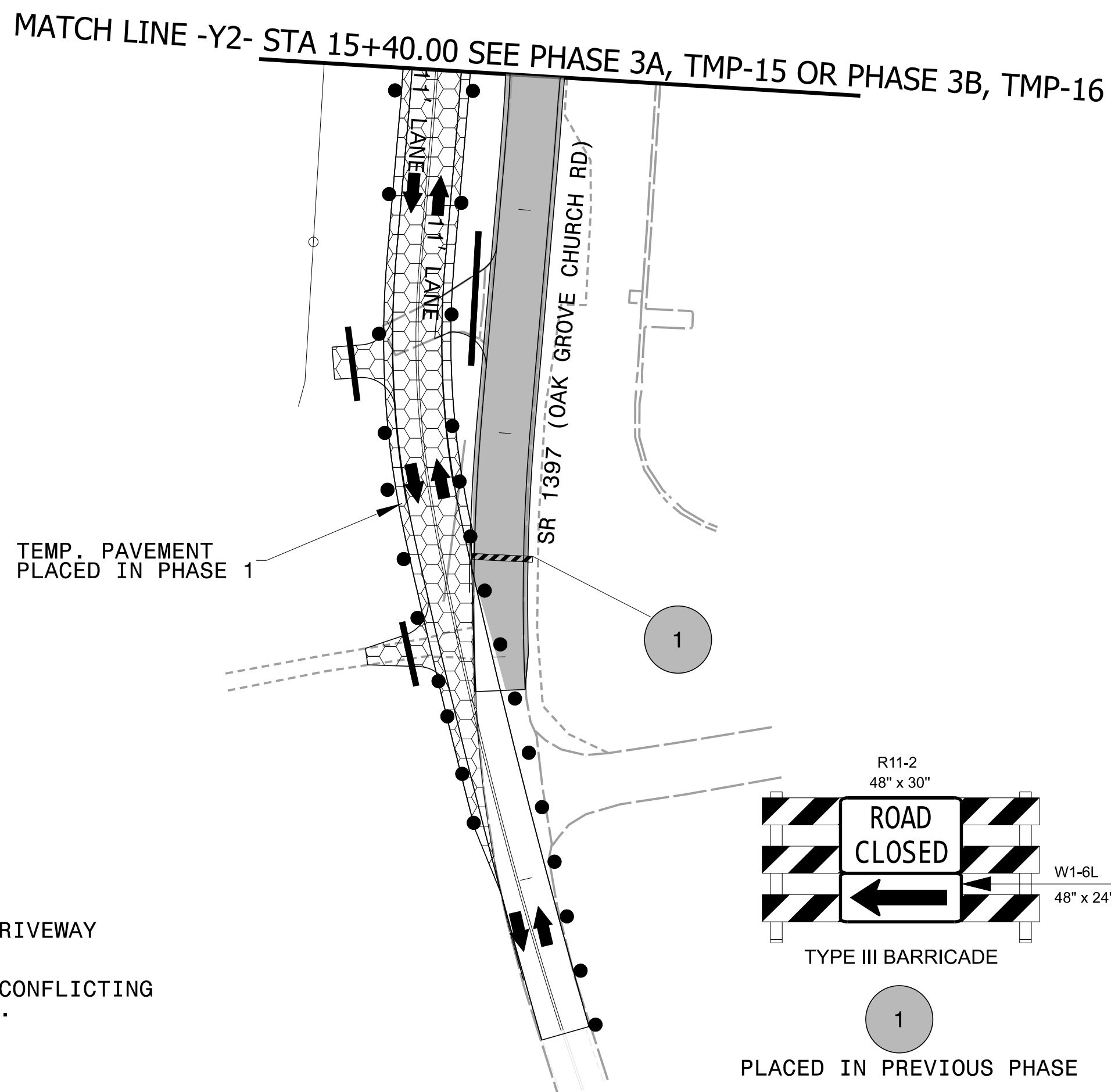

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PHASE 3B
(SHEET 2 OF 3)

KCA
KISINGER CAMPO
& ASSOCIATES

301 FAYETTEVILLE STREET
SUITE 1500
RALEIGH, NC 27601
(919) 882-7839
NC FIRM LICENSE: C-1506




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APPROVED: _____

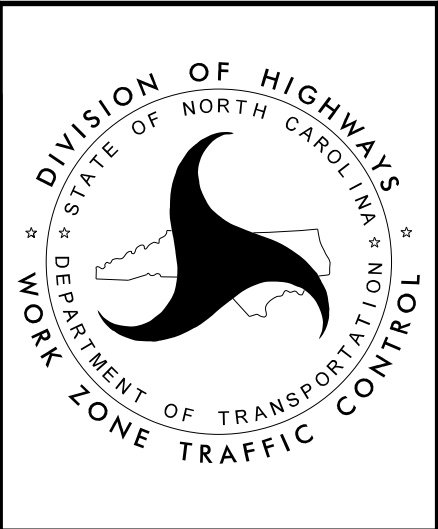
Signed by: Darren P. Brandes
01ER30CF38F4B

DATE: 6/30/2025

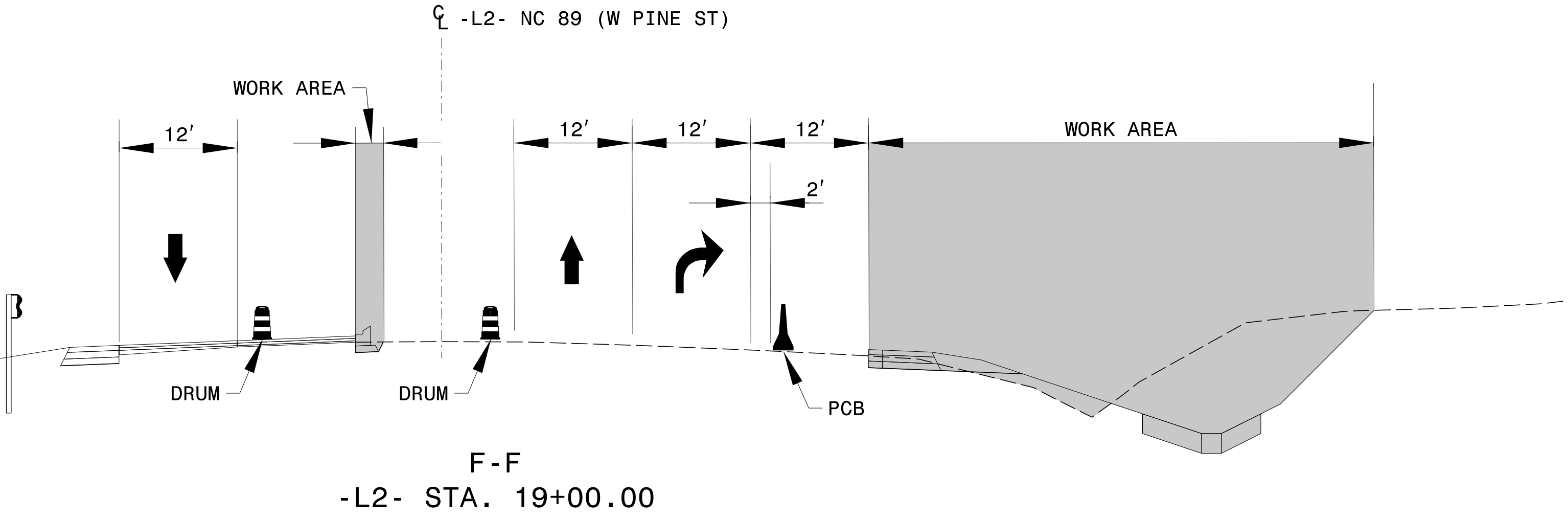
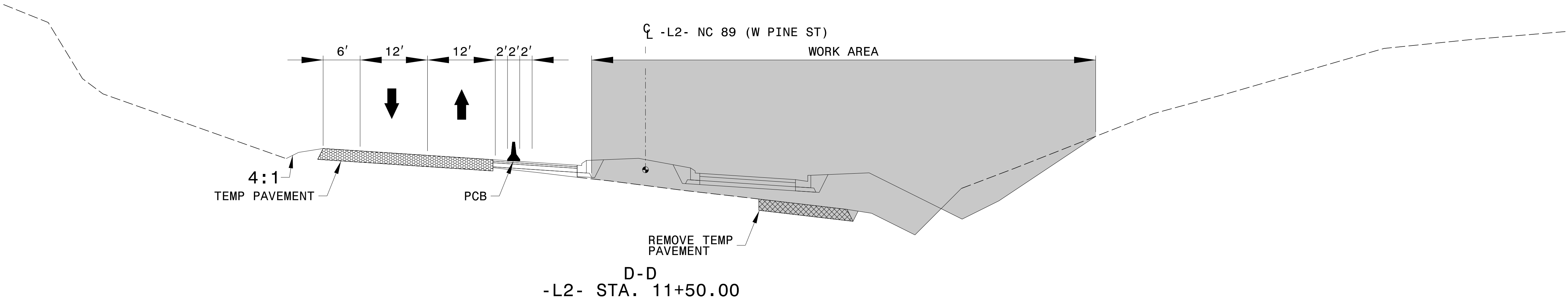
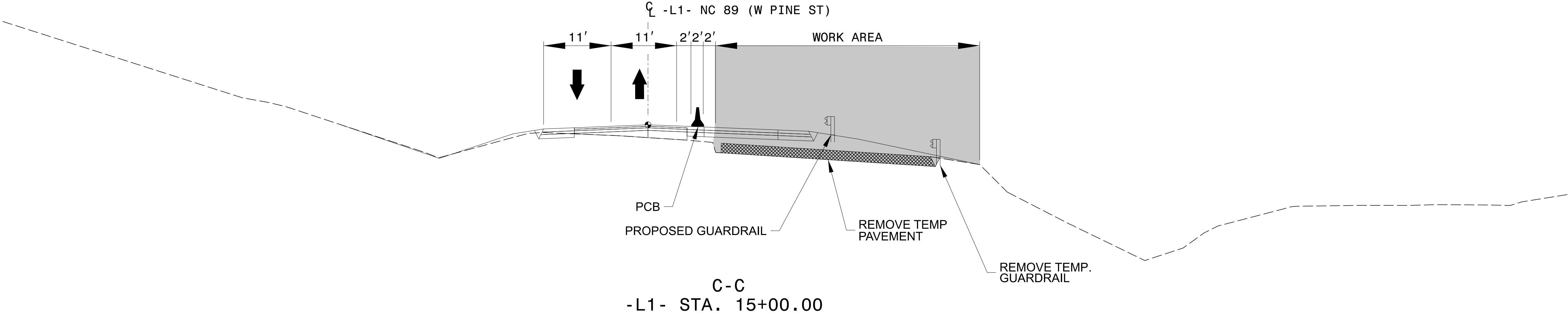
SEAL

The seal is circular with a double-lined border. Between the lines, the text "NORTH CAROLINA" is at the top and "PROFESSIONAL" is at the bottom, both in all caps. In the center, the word "SEAL" is at the top, followed by the number "043669" in a large font, then "ENGINEERS" in a smaller font, and "DARRIN P. BRANDES" at the bottom, all in all caps.

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

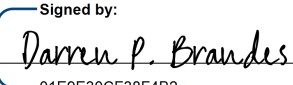


PHASE 3B
(SHEET 3 OF 3)



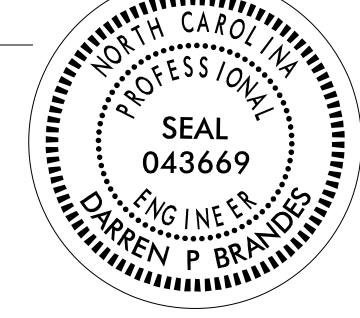
NOTES:

1. FOR ALL PROPOSED SLOPES PLEASE SEE ROADWAY CROSS SECTIONS.


APPROVED: 

DATE: 7/16/2025

SEAL

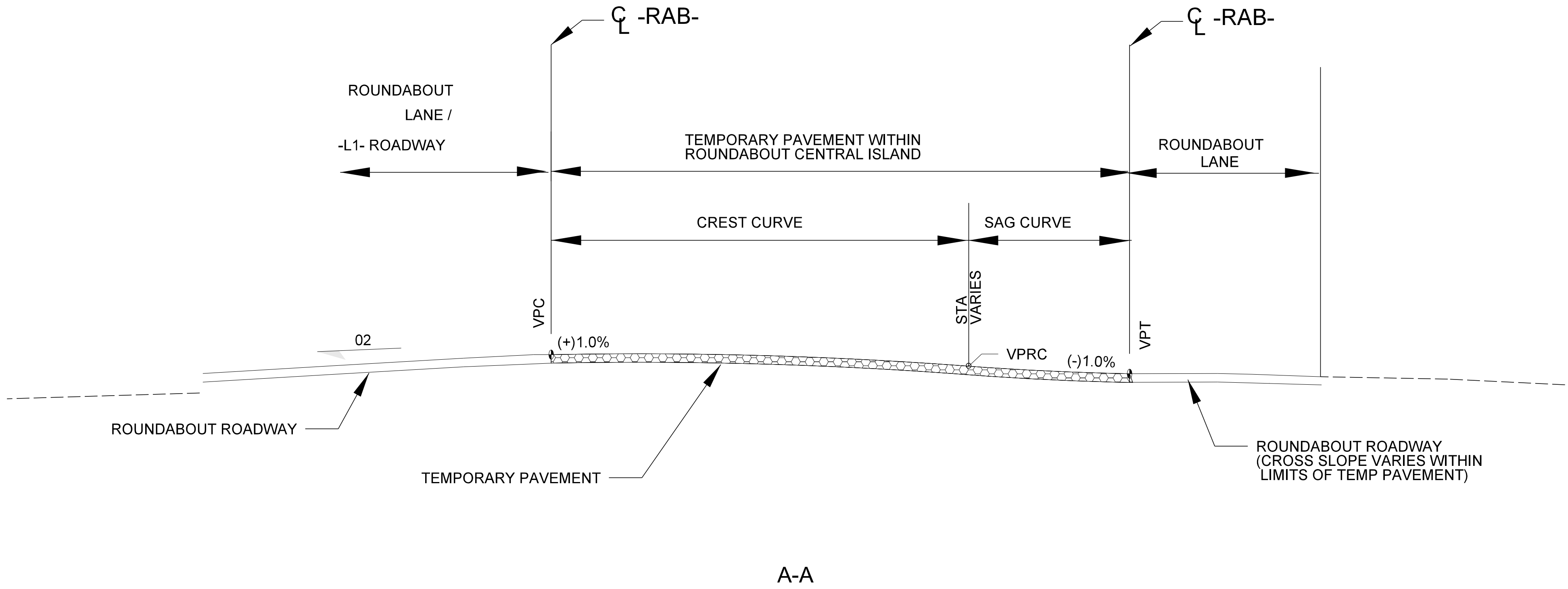
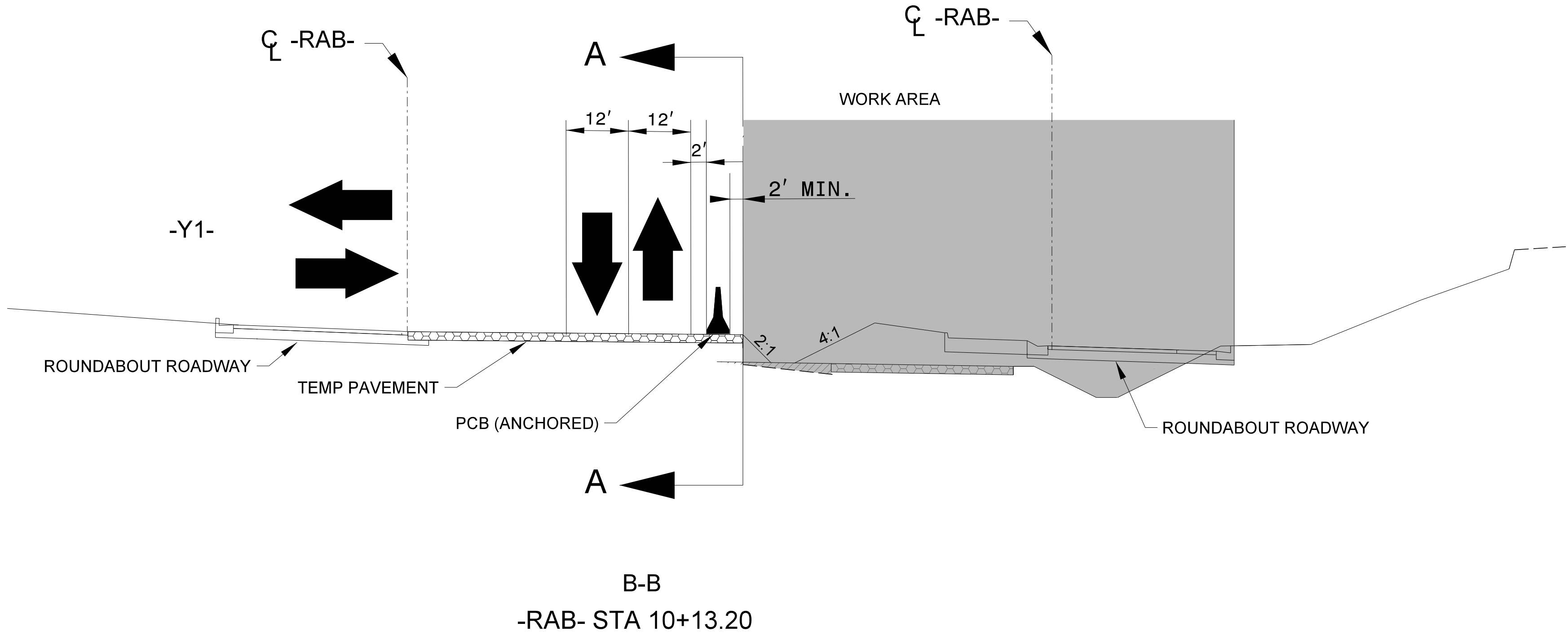


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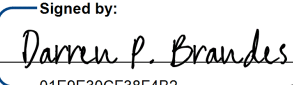
PHASE 3B
CUT SECTIONS

7/16/2025
R5901_TG_TMP_Phase 3 Cut Sections.dgn
User: dbrandes



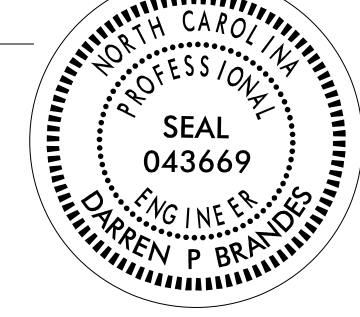
NOTES:

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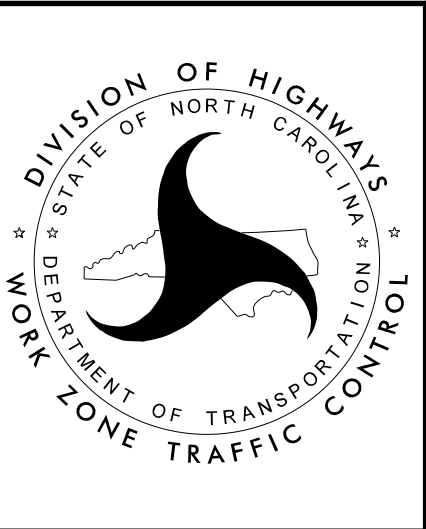
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DATE: 7/16/2025

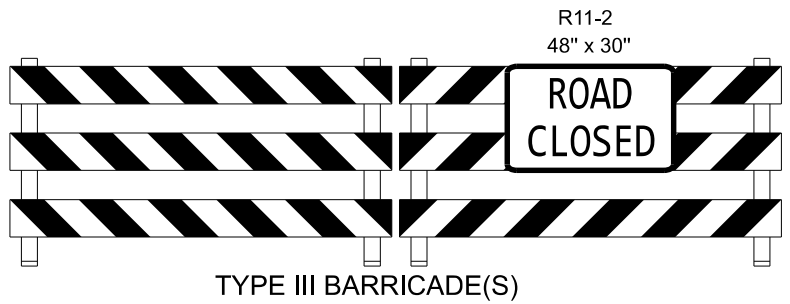
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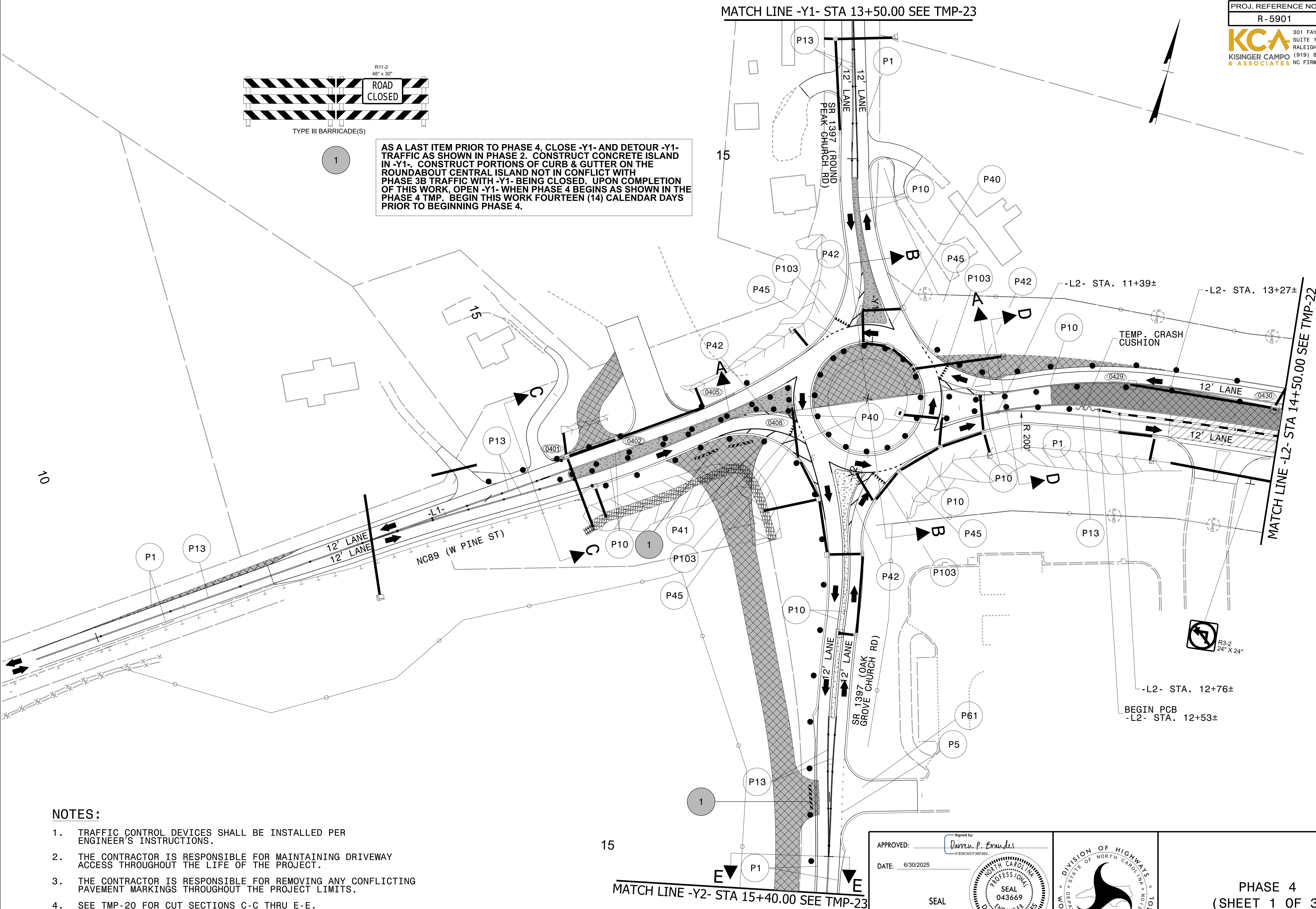
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PHASE 3B
CUT SECTIONS



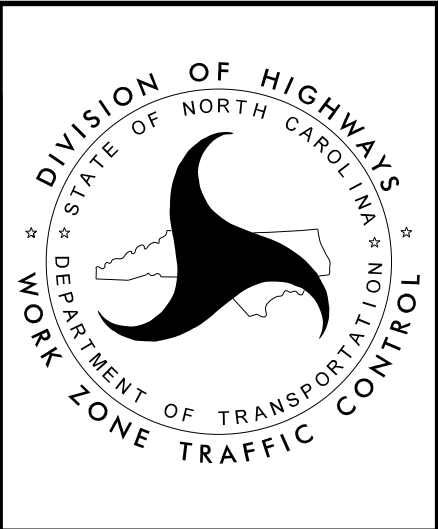
AS A LAST ITEM PRIOR TO PHASE 4, CLOSE -Y1- AND DETOUR -Y1- TRAFFIC AS SHOWN IN PHASE 2. CONSTRUCT CONCRETE ISLAND IN -Y1-. CONSTRUCT PORTIONS OF CURB & GUTTER ON THE ROUNDABOUT CENTRAL ISLAND NOT IN CONFLICT WITH PHASE 3B TRAFFIC WITH -Y1- BEING CLOSED. UPON COMPLETION OF THIS WORK, OPEN -Y1- WHEN PHASE 4 BEGINS AS SHOWN IN THE PHASE 4 TMP. BEGIN THIS WORK FOURTEEN (14) CALENDAR DAYS PRIOR TO BEGINNING PHASE 4.



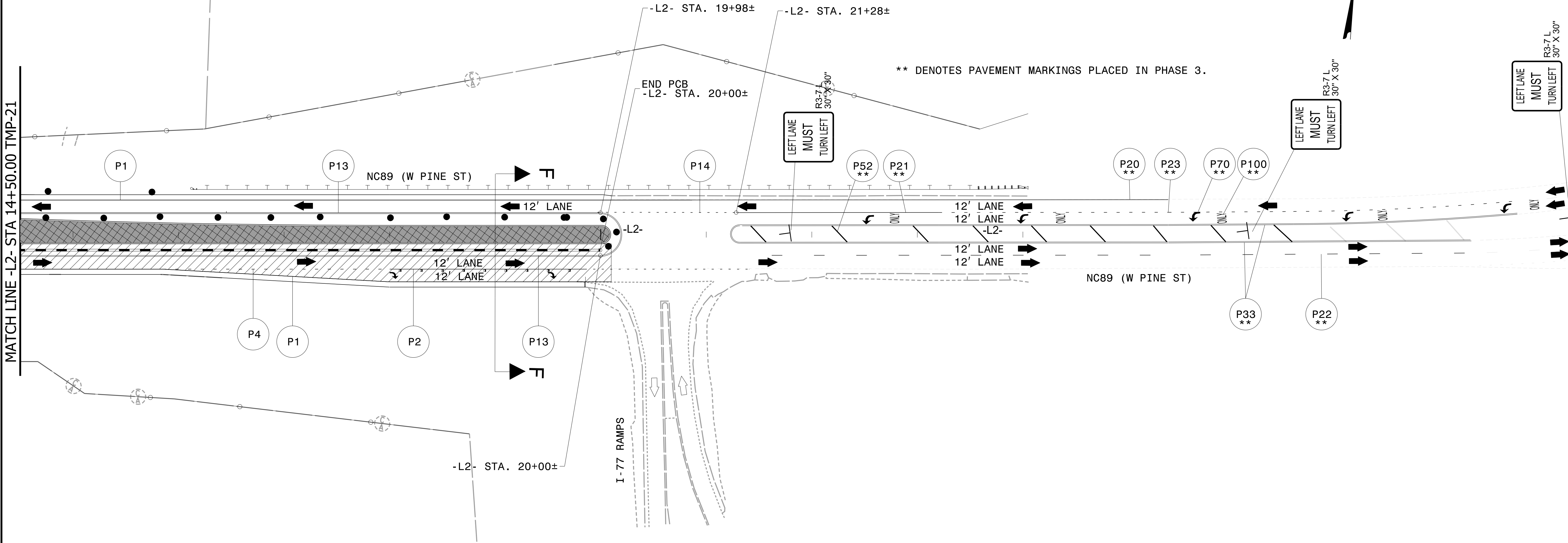
NOTES:

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4. SEE TMP-20 FOR CUT SECTIONS C-C THRU E-E.
5. FOR TEMPORARY PAVEMENT MARKINGS, MATCH THE PAVEMENT MARKING PLANS UNLESS OTHERWISE NOTED ABOVE.

APPROVED:	Signed by: <i>Darren P. Brandes</i> 01ERE30CF38F4B2
DATE:	6/30/2025
SEAL	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

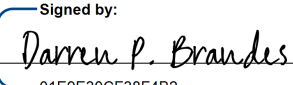


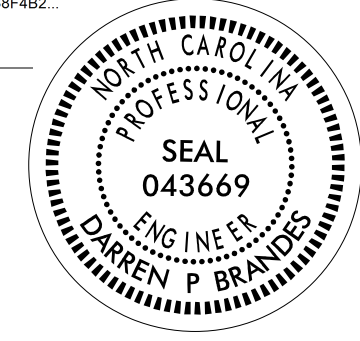
PHASE 4
(SHEET 1 OF 3)




NOTES:

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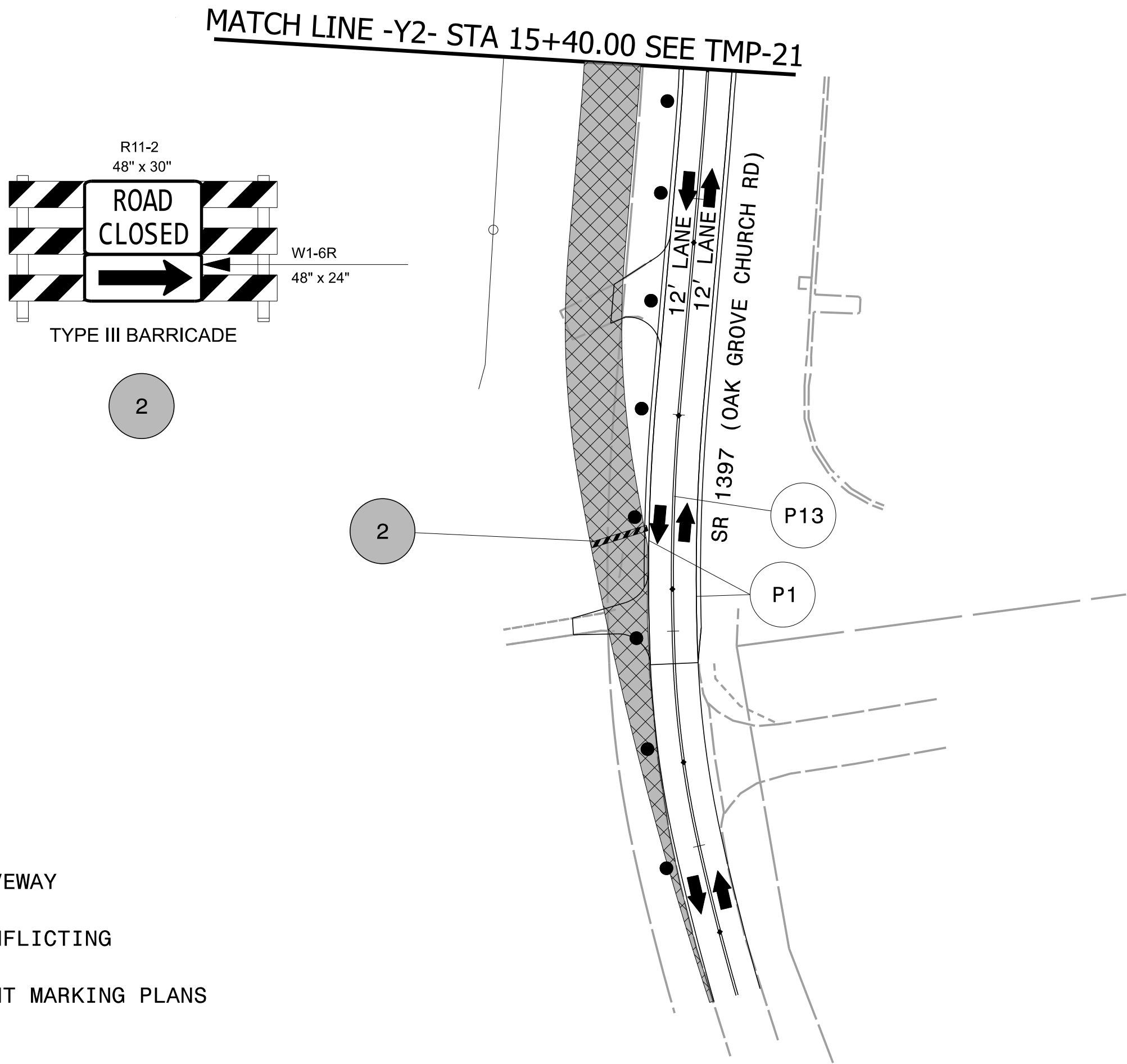
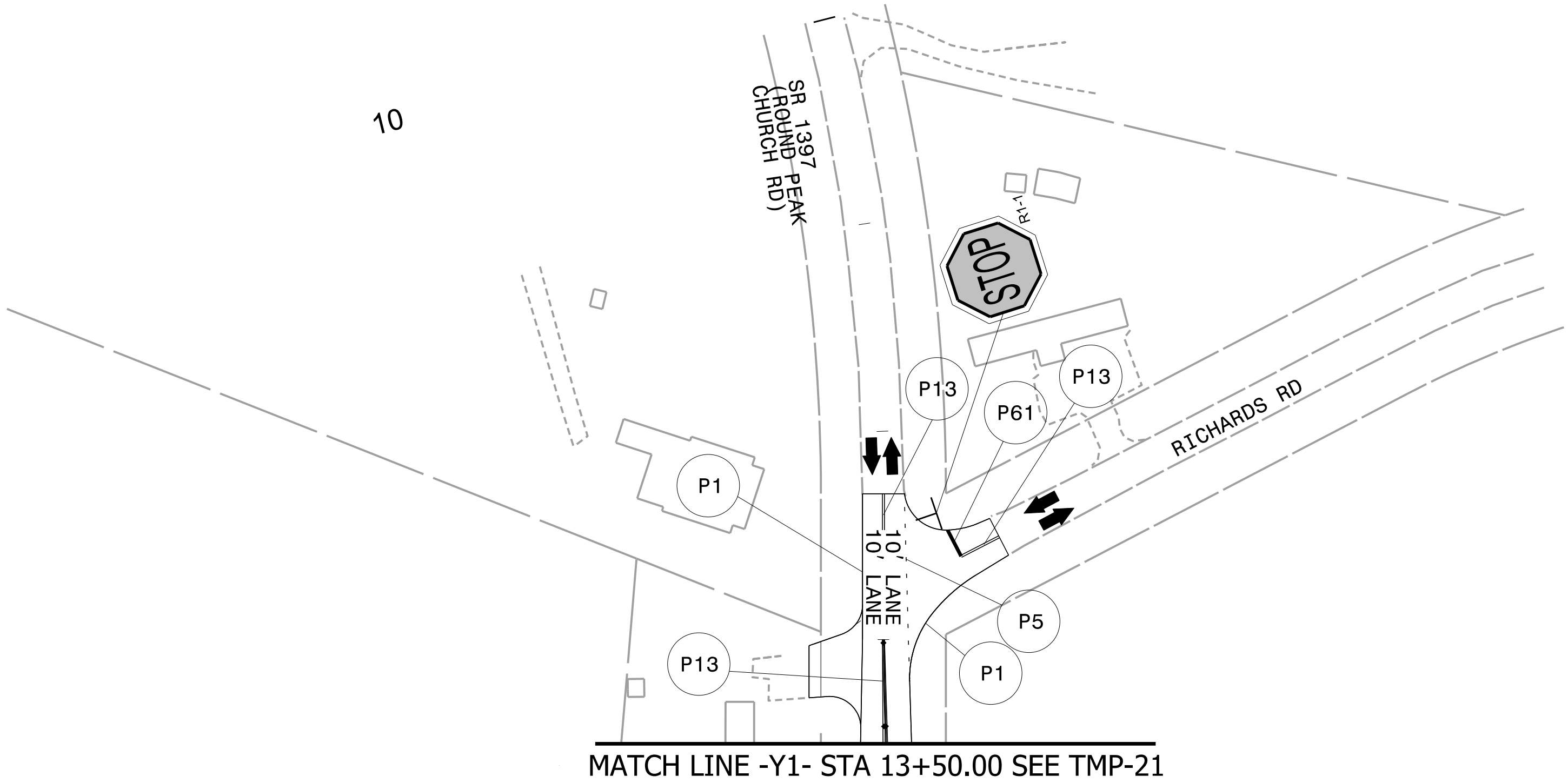
APPROVED: 
DATE: 7/16/2025

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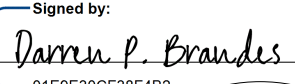
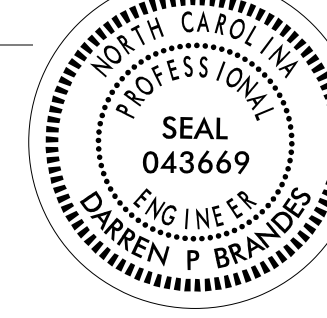


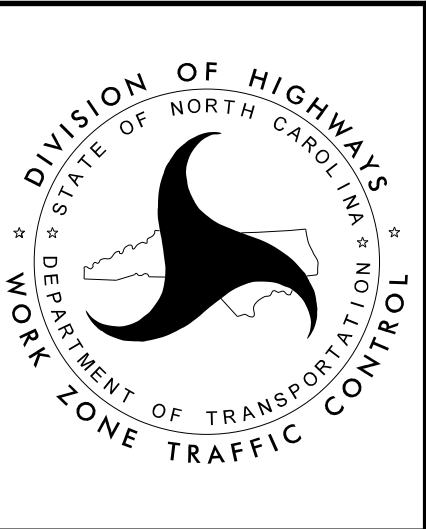
PHASE 4
(SHEET 2 OF 3)



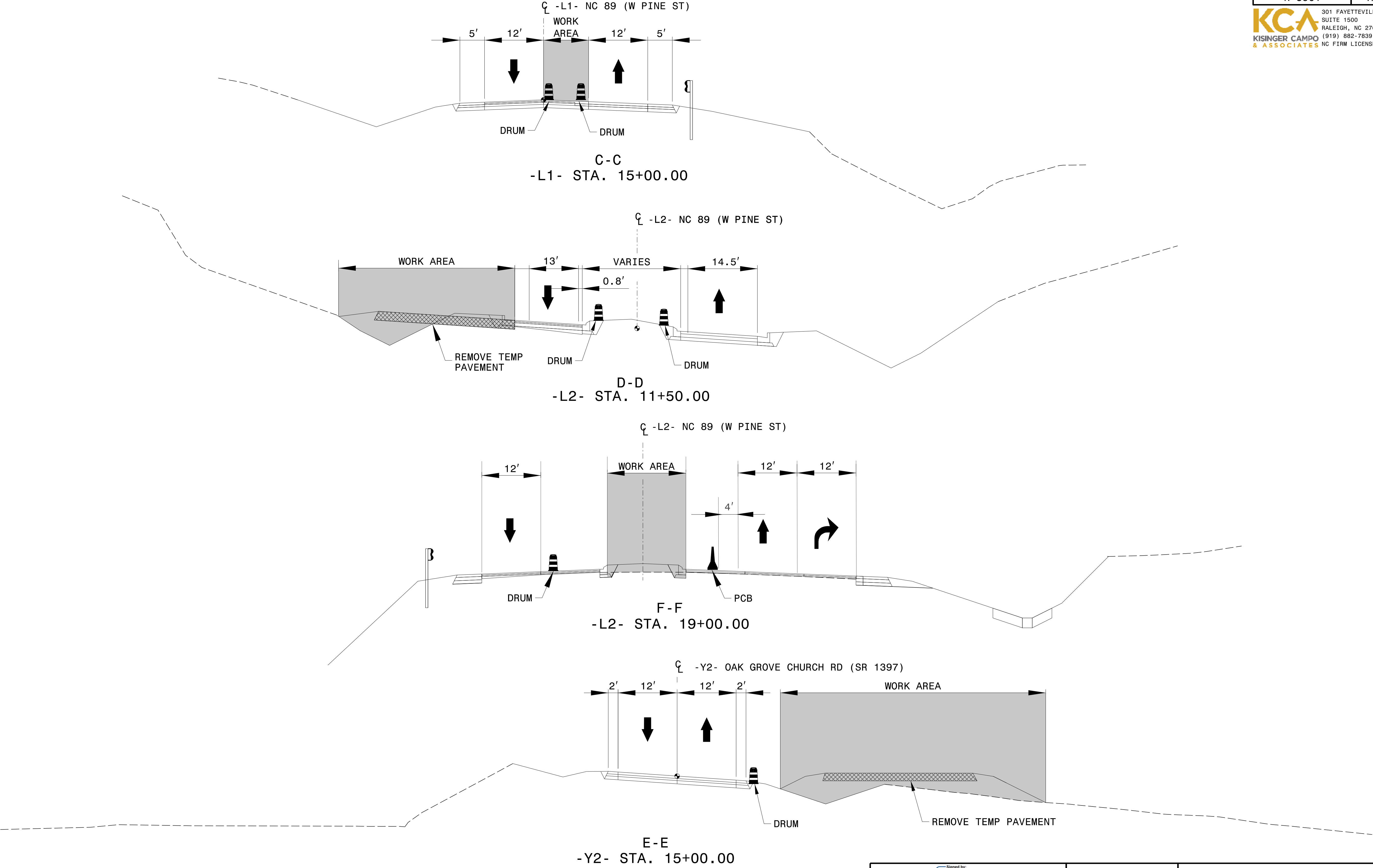
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DATE: 6/30/2025
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PHASE 4
(SHEET 3 OF 3)



NOTES:

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APPROVED: 

DATE: 7/16/2025

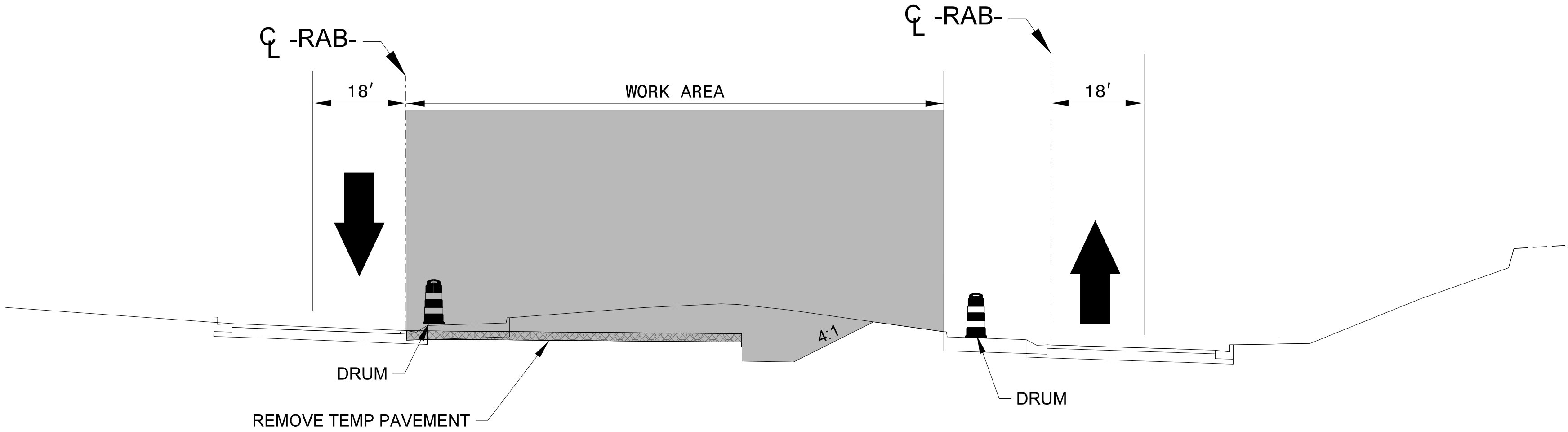
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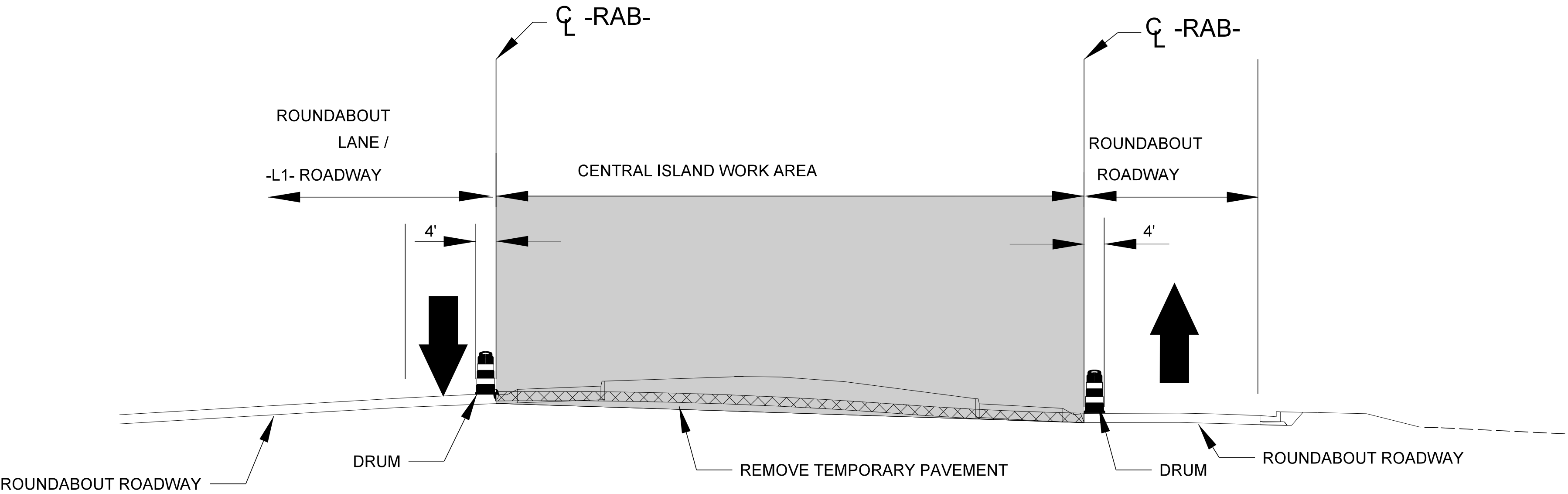
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**PHASE 4
CUT SECTIONS**



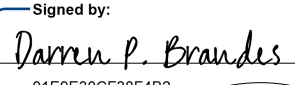
B-B
-RAB- STA 10+13.20



A-A
-RAB- STA 11+13.10

NOTES:

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APPROVED: 
DATE: 6/30/2025

SEAL 

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PHASE 4
CUT SECTIONS