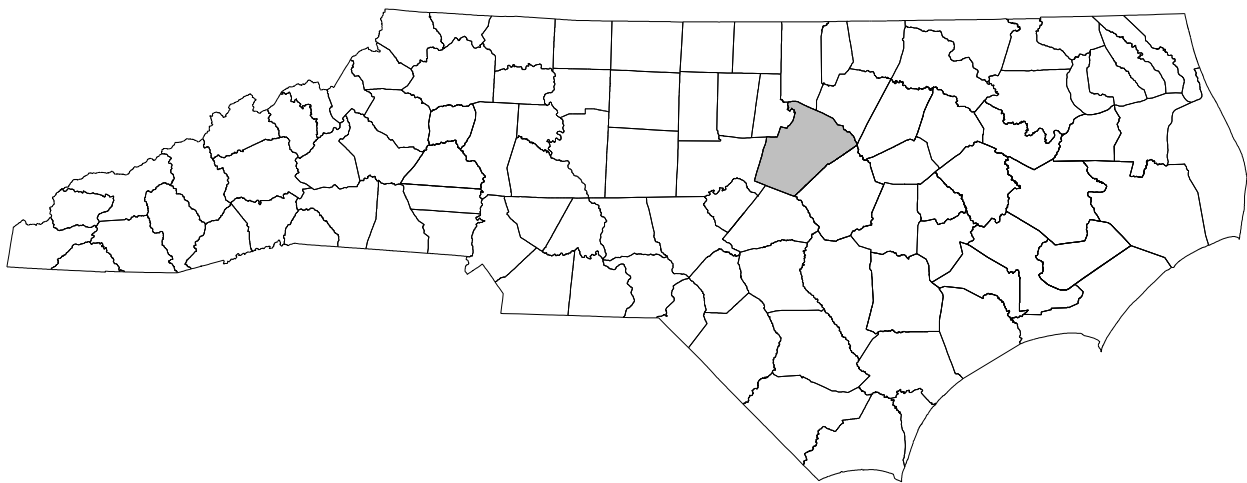
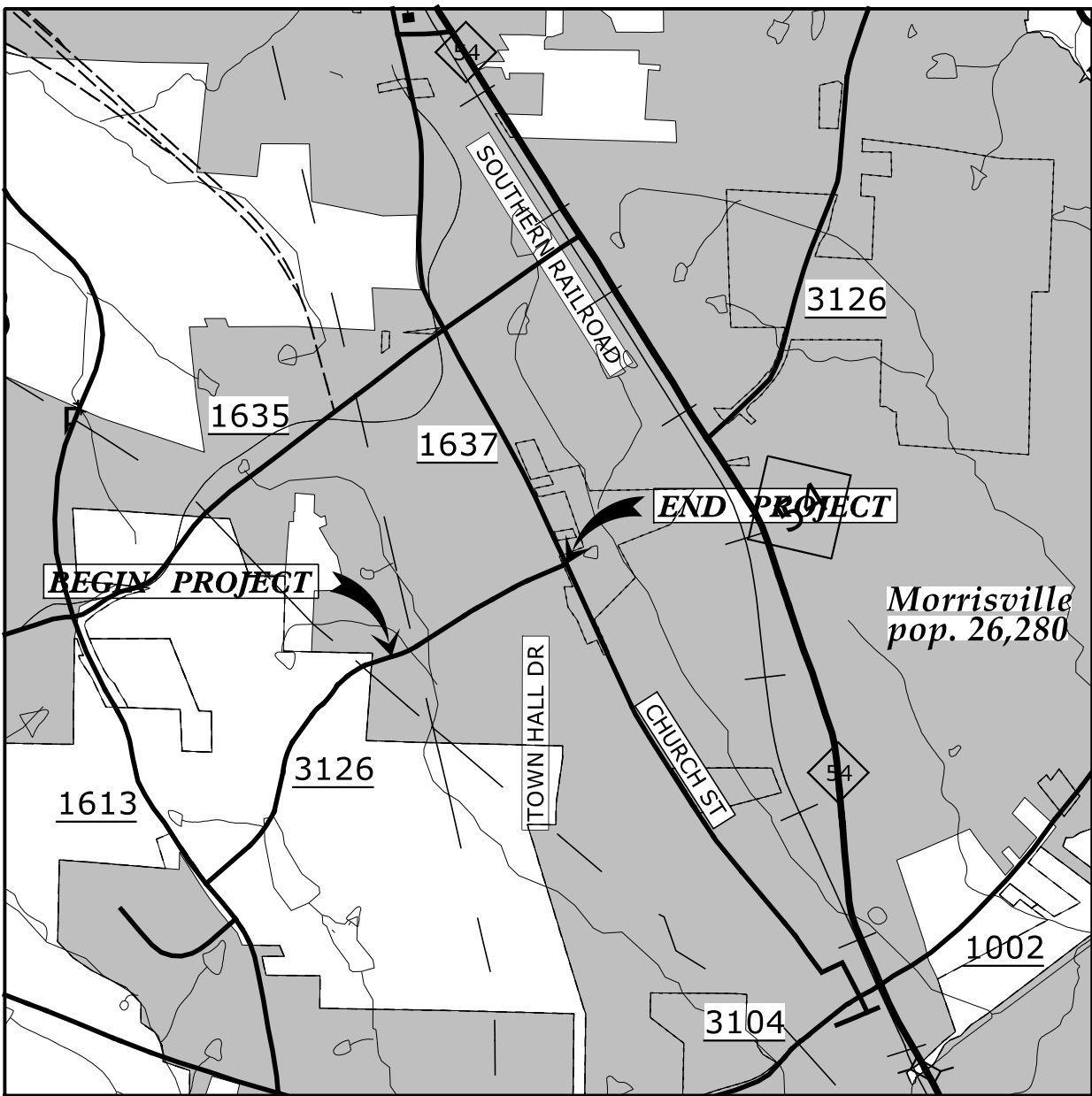


STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN  
WAKE COUNTY

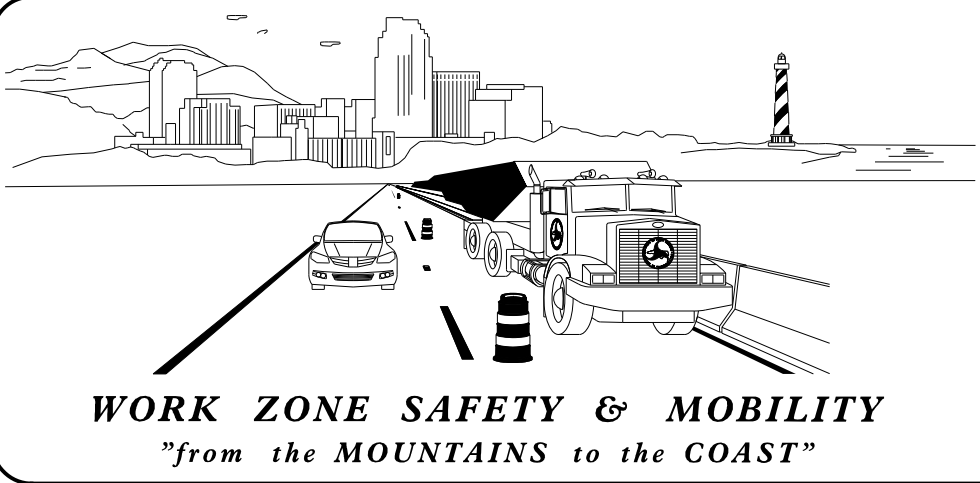


LOCATION: EXTENSION OF AIRPORT BOULEVARD (SR 3126) FROM  
GARDEN SQUARE LANE TO CHURCH STREET (SR 1637)  
IN MORRISVILLE. CONSTRUCT ROADWAY ON NEW LOCATION.



MORRISVILLE CITY LIMITS

VICINITY MAP



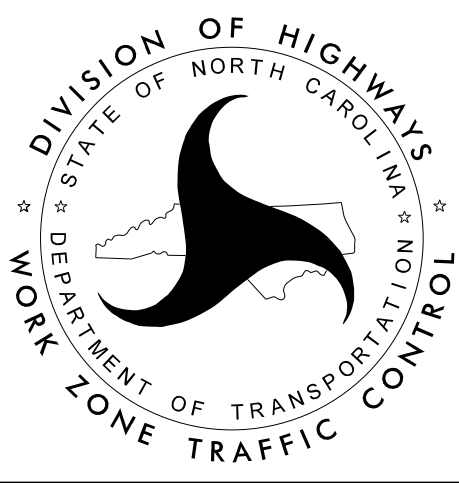
PLANS PREPARED BY:

LISA MOON, PE

JASON TALLEY, PE

NCDOT CONTACTS:

KYRILLOS HELMY, EI  
PROJECT MANAGER



INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-1B	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES, AND LOCAL NOTES)
TMP-2 THRU TMP-2B	SIGN DESIGNS
TMP-2C	STEEL PLATE DETAIL
TMP-3 THRU TMP-3A	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4 THRU TMP-12	TEMPORARY TRAFFIC CONTROL OFFSITE DETOURS
TMP-13	TEMPORARY PEDESTRIAN ONSITE DETOURS
TMP-14	TEMPORARY TRAFFIC CONTROL PHASE I DETAIL
TMP-15 THRU TMP-18	TEMPORARY TRAFFIC CONTROL PHASE II DETAILS
TMP-19 THRU TMP-24	TEMPORARY TRAFFIC CONTROL PHASE III DETAILS

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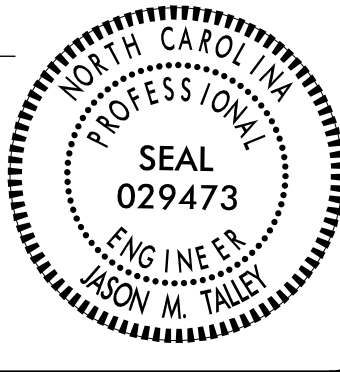
Lochner

H. W. LOCHNER, INC.  
2840 PLAZA PLACE, SUITE 202  
RALEIGH, NC 27612  
(919) 571-7111

NC License  
Number F-0159

APPROVED: Jason Talley

DATE: 1/5/2026



HL-0033

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 WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1165.01	TRUCK MOUNTED ATTENUATOR
1150.01	FLAGGING DEVICES
1180.01	SKINNY - DRUMS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.10	PAVEMENT MARKINGS - SCHOOL AREAS
1205.16	PAVEMENT MARKINGS - BICYCLE FACILITIES
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1266.01	RAISED PAVEMENT MARKERS - TUBULAR MARKERS
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- WORK AREA
- ONGOING WORK AREA
- TEMPORARY PAVEMENT
- PAVEMENT REMOVAL
- PAVEMENT WEDGING

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TEMPORARY PAVEMENT MARKING

- P1 WHITE EDGELINE (4")
- P2 WHITE SOLID LANE LINE (4")
- P3 10FT. WHITE SKIP (4")
- P4 3 FT.-9FT./SP WHITE MINISKIP (4")
- P10 YELLOW EDGELINE (4")
- P13 YELLOW DOUBLE CENTER (4")
- P43 WHITE SOLID LANE LINE (8")
- P46 WHITE CROSSWALK LINE (8")
- P51 WHITE DIAGONAL (12")
- P52 YELLOW DIAGONAL (12")
- P61 WHITE STOP BAR (24")
- P62 WHITE CROSSWALK LINE (24")
- P70 LEFT TURN ARROW
- P71 RIGHT TURN ARROW
- P72 STRAIGHT ARROW
- P90 BICYCLE SYMBOL
- P91 BICYCLE STRAIGHT ARROW
- P100 ALPHANUMERIC CHAR.
- P102 12" YIELD LINE TRIANGLE

TRAFFIC CONTROL DEVICES

- TYPE III BARRICADE
- BARRICADE (ADA COMPLIANT)
- DRUM
- DRUM (CUT SECTION VIEW)
- FLAGGER
- PEDESTRIAN CHANNELIZATION DEVICE (CUT SECTION VIEW)
- PEDESTRIAN CHANNELIZATION DEVICE (DETAIL VIEW)
- TUBULAR MARKER
- CHANGEABLE MESSAGE SIGN
- SKINNY DRUM
- TUBULAR MARKER (CUT SECTION VIEW)

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

PROJ. REFERENCE NO.

HL - 0033

SHEET NO.

TMP - 1A

Lochner

H. W. LOCHNER, INC.  
2840 PLAZA PLACE, SUITE 202  
RALEIGH, NC 27612  
(919)571-7111

NC License  
Number F-0159

APPROVED:

DATE: 1/5/2026

ROADWAY STANDARD  
DRAWINGS & LEGEND

DOCUMENT NOT CONSIDERED FINAL  
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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  
LANE SHIFTS OR CLOSURES  
SHOULDER CLOSURES  
ONE-LANE, TWO WAY OPERATION (FLAGGING)  
NIGHT WORK  
WEEKEND WORK  
WORK HOUR RESTRICTIONS FOR PEAK TRAVEL  
PEDESTRIAN / BICYCLE ACCOMMODATIONS  
OFF-SITE DETOURS / USE OF ALTERNATIVE ROUTES  
ON-SITE DETOURS  
CONTRACTING & INNOVATIVE CONSTRUCTION STRATEGIES:  
INTERMEDIATE CONTRACT TIMES / LIQUIDATED DAMAGES

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 UNDESIREDOVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

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

TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
AIRPORT BLVD. (STA. 12+00 TO 13+40)	
TOWN HALL DRIVE	MONDAY THRU FRIDAY 6:00 A.M. TO 9:00 A.M.
CHURCH STREET	MONDAY THRU FRIDAY 3:00 P.M. TO 7:00 P.M.
GARDEN SQUARE LANE	

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

ROAD NAME
AIRPORT BLVD. (STA. 12+00 TO 13+40)
TOWN HALL DRIVE
CHURCH STREET
GARDEN SQUARE LANE

HOLIDAY
1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY.  IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 7:00 P.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

C) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
TOWN HALL DRIVE	MONDAY THRU SUNDAY 6:00 A.M. TO 10:00 P.M.
CHURCH STREET	MONDAY THRU SUNDAY 6:00 A.M. TO 10:00 P.M.

GENERAL NOTES CONT.

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

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

PAVEMENT EDGE DROP OFF REQUIREMENTS

- I) 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.
- J) 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) 200 FT. IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- L) 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.
- M) 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.
- N) 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.
- O) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- P) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 200 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

GENERAL NOTES CONT.

TRAFFIC CONTROL DEVICES

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

- T) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:
- | ROAD NAME       | MARKING | MARKER |
|-----------------|---------|--------|
| TOWN HALL DRIVE | PAINT   | NONE   |
| CHURCH STREET   | PAINT   | NONE   |
- U) 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.
- V) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- W) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.


MISCELLANEOUS

- X) ALL CURB RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH THE SIGNING AND DELINEATION UNIT.
- Y) CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES AS STATED IN THE PHASING. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIDEWALKS (CONCRETE, ASPHALT, OR OTHER SUITABLE MATERIAL AS APPROVED BY THE ENGINEER) AT ALL LOCATIONS WHERE THE OPEN PEDESTRIAN TRAVELWAY HAS BEEN REMOVED FOR CONSTRUCTION OPERATIONS (UTILITIES, DRAINAGE, ETC.).

LOCAL NOTES

NOTIFY:  
TOWN OF MORRISVILLE DIRECTOR OF ENGINEERING AT 919-463-6193  
TOWN OF MORRISVILLE CAPITAL PROJECTS MANAGER AT 919-463-6193  
TOWN OF MORRISVILLE FIRE CHIEF AT 919-463-6931  
TOWN OF MORRISVILLE CHIEF OF POLICE AT 919-463-1600  
30 DAYS PRIOR TO FOLLOWING:  
INDIAN CREEK GREENWAY CLOSURE / OFFSITE DETOUR  
TOWN HALL DRIVE FULL ROAD CLOSURES  
CHURCH STREET FULL ROAD CLOSURES  
3-LN TRAFFIC PATTERN ON TOWN HALL DRIVE

NOTIFY:  
CEDAR FORK ELEMENTARY SCHOOL AT 919-388-5240  
STERLING MONTESSORI ACADEMY AT 919-462-8889  
30 DAYS PRIOR TO THE FOLLOWING:  
3-LN TRAFFIC PATTERN ON TOWN HALL DRIVE

**Lochner**

H. W. LOCHNER, INC.  
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NC License  
Number F-0159

APPROVED:   
DATE: 1/5/2026





TRANSPORTATION  
OPERATIONS  
PLAN

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PROJ. REFERENCE NO.	SHEET NO.
HL - 0033	TMP - 2

[illegible][illegible]

APPROVED: <u>Jason Talley</u> <small>SS243970AZET1F41B</small>  DATE: <u>1/5/2026</u>			<h1 style="margin: 0;">SIGN DESIGN</h1>
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>			



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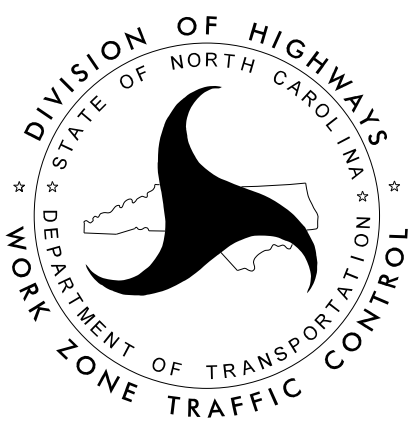
SIGN NUMBER: SS-4 TYPE: STATIONARY QUANTITY: 12 SIGN WIDTH: 3'-6" HEIGHT: 1'-0" TOTAL AREA: 3.5 Sq.Ft. BORDER TYPE: RECESSED RECESS: 0.375" WIDTH: 0.625" RADII: 1.5" NO. Z BARS: LENGTH:	BACKG COLOR: Orange COPY COLOR: Black SYMBOL: X Y WID HT MAT'L: 0.080" (2.0 mm) ALUMINUM	DESIGN BY: RUC PROJECT ID: HL-0033 CHECKED BY: LMM LOCATION: WAKE Oct 20, 2025 DIV: 5
--	--	--

Diagram of the sign showing dimensions: 3'-6" wide, 1'-0" high. Border dimensions: 0.375" wide, 0.625" high. Text dimensions: 0.375" wide, 0.625" high. Sign label: Church St.

Spacing Factor is 1 unless specified otherwise

Letter locations are panel edge to lower left corner															Series/Size Text Length
C	h	u	r	c	h	S	t								C 2000 31.3
5.4	9.8	13.8	18	20.4	24.1	30.7	34.5								

FILENAME: HL-0033\_TMP\_DETOUR\_RoadNames      NORTH CAROLINA D.O.T. SIGN DETAIL



# SIGN DESIGN

PROJ. REFERENCE NO.	SHEET NO.
HL - 0033	TMP - 2B

[illegible]

 **Lochner**

---

H. W. LOCHNER, INC.  
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RALEIGH, NC 27612  
(919)571-7111

NC License  
Number F-0159

APPROVED: Jason Talley  
550A9702AE1F41B

DATE: 1/5/2026

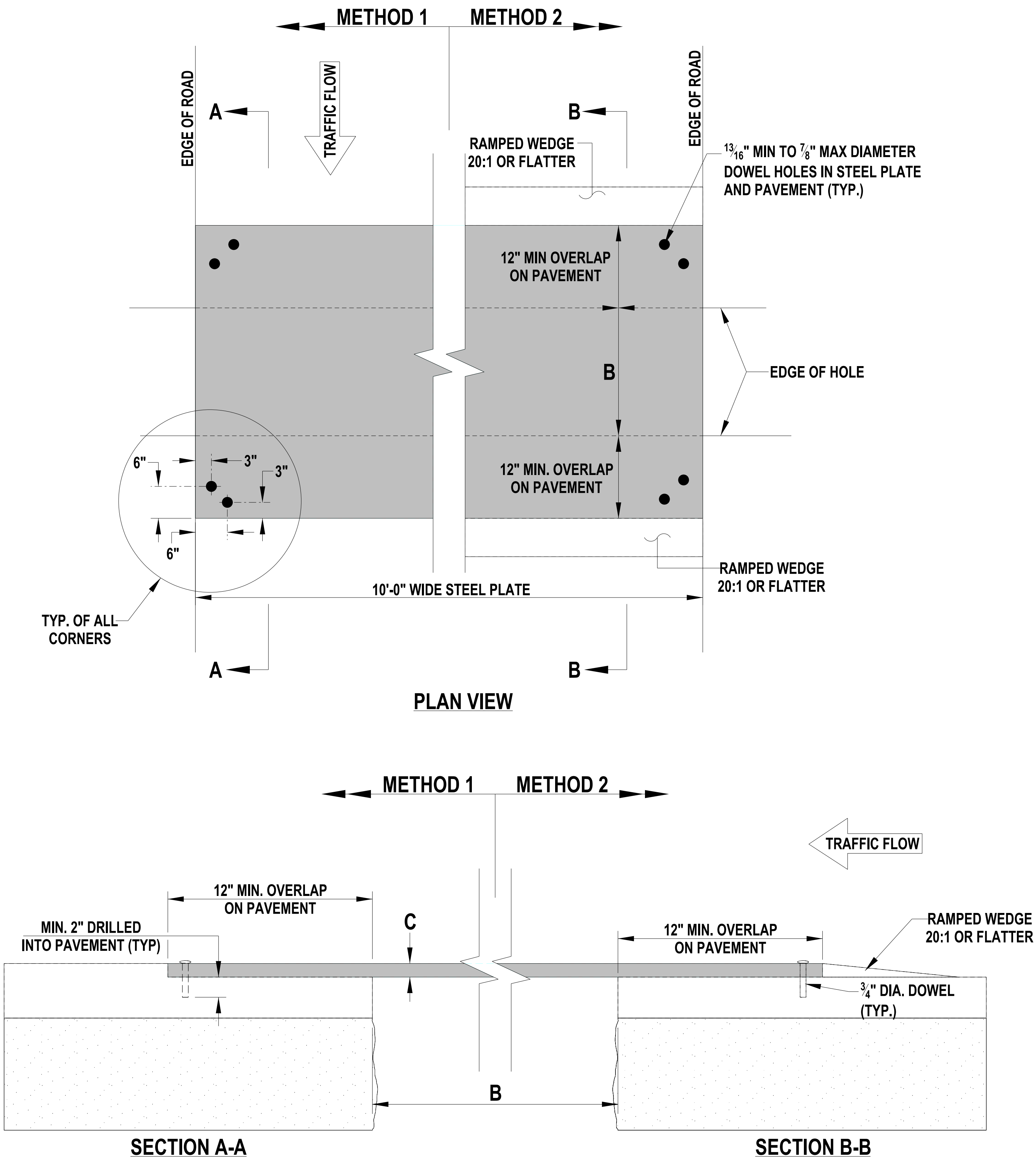
**NOTARY SEAL:**  
NORTH CAROLINA  
PROFESSIONAL  
SEAL  
029473  
ENGINEER  
JASON M. TALLEY

**DOCUMENT NOT CONSIDERED FINAL  
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# SIGN DESIGN

PROJ. REFERENCE NO.	SHEET NO.
HL - 0033	TMP - 2C



B	C
TRENCH WIDTH	MIN. PLATE THICKNESS
1'-0"	1/2"
2'-0"	3/4"
3'-0"	7/8"
4'-0"	1"
5'-0"	1 1/8"
6'-0"	1 1/4"

BASED ON HL-93 TRUCK LOAD

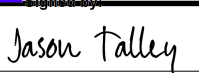
- NOTES:**
- USE OF STEEL PLATES MUST BE APPROVED BY THE DEPARTMENT AND IS NOT PERMITTED BETWEEN NOVEMBER 1ST AND MARCH 31ST.
  - STEEL PLATE BRIDGING ON FREEWAYS AND EXPRESSWAYS IS STRICTLY PROHIBITED.
  - STEEL PLATES AND DOWELS WILL CONFORM TO ASTM A36 STANDARDS.
  - ADEQUATELY SHORE THE TRENCH IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS TO SUPPORT THE BRIDGING AND TRAFFIC LOADS.
  - SECURE BRIDGING AGAINST DISPLACEMENT BY USING ADJUSTABLE CLEATS, SHIMS, OR OTHER DEVICES.
  - USE OF STEEL PLATE BRIDGING IS NOT TO EXCEED FOUR (4) CONSECUTIVE WORKING DAYS IN ANY GIVEN WEEK AND NOT LEFT IN PLACE OVER THE WEEKEND, UNLESS DIRECTED BY THE ENGINEER IN THE FIELD.
  - THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF STEEL PLATES, SHORING, ASPHALT CONCRETE RAMPS, AND ENSURING THEY MEET ALL MINIMUM SPECIFICATIONS. DEFORMATIONS OF ANY KIND ARE NOT ACCEPTABLE ON STEEL PLATES. EXAMPLES OF DEFORMATIONS COULD BE, BUT NOT LIMITED TO, ANY OF THE FOLLOWING: FREE FROM ANY CLIPS, CHAINS, ATTACHMENTS, WELDMENTS, SURFACE IRREGULARITIES, ETC.
  - A STRUCTURE DESIGN IS REQUIRED FOR TRENCH WIDTHS GREATER THAN 6'-0". DESIGN WILL BE APPROVED BY DEPARTMENT PRIOR TO USE.
  - INSTALL STEEL PLATE BRIDGING AND SHORING USING EITHER OF THE METHODS BELOW:  
METHOD 1: FOR SPEEDS GREATER THAN 45 MPH, MILL THE PAVEMENT TO A DEPTH EQUAL TO THE THICKNESS OF THE PLATE AND TO A WIDTH AND LENGTH EQUAL TO THE DIMENSION OF THE PLATE. BUTT SUBSEQUENT PLATES TO EACH OTHER. ATTACH THE PLATE TO THE ROADWAY BY A MINIMUM OF TWO DOWELS PRE-DRILLED INTO EACH CORNER OF THE PLATE AND DRILLED 2" INTO THE PAVEMENT AS SHOWN ON THIS DETAIL.  
METHOD 2: FOR SPEEDS 45 MPH OR LESS, ATTACH THE PLATE TO THE ROADWAY BY A MINIMUM OF TWO DOWELS PRE-DRILLED INTO EACH CORNER OF THE PLATE AND DRILLED 2" INTO THE PAVEMENT AS SHOWN IN ON THIS DETAIL. BUTT SUBSEQUENT PLATES TO EACH OTHER. USE COMPACTED BITUMINOUS TEMPORARY ROADWAY MATERIAL (TRM) TO FORM A RAMPED WEDGE WITH A MAXIMUM SLOPE OF 5% AND A MINIMUM TAPER LENGTH OF 20" TO COVER ALL EDGES OF STEEL PLATES.
  - FOR BOTH METHODS, WHEN THE STEEL PLATES ARE REMOVED, BACKFILL THE DOWEL HOLES IN THE PAVEMENT WITH EITHER GRADED FINES OF ASPHALT CONCRETE MIX, CONCRETE SLURRY, OR EQUIVALENT SLURRY TO THE SATISFACTION OF THE ENGINEER.
  - STEEL PLATES MUST HAVE A SURFACE THAT IS MANUFACTURED WITH A MINIMUM NOMINAL COEFFICIENT OF FRICTION OF 0.35 AT THE TIME OF PLACEMENT.

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15\RAL\PRJ\000016890\HL-0033\Traffic\TrafficControl\TCP\New Defour Sheets 10.20.2025 CUF\SteelPlate Detail.dgn  
User: Jason.Talley

**Lochner**

H. W. LOCHNER, INC.  
2840 PLAZA PLACE, SUITE 202  
RALEIGH, NC 27612  
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NC License  
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APPROVED:   
552A97DA2E1F41B1

DATE: 1/5/2026



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**STEEL PLATE DETAIL**



PROJ. REFERENCE NO.	SHEET NO.
HL - 0033	TMP -3

# PHASING NOTES

NOTES:

MAINTAIN VEHICULAR ACCESS TO ALL RESIDENCES AND BUSINESSES DURING CONSTRUCTION, UNLESS OTHERWISE NOTED IN THE PHASING PLANS OR DIRECTED BY THE RESIDENT ENGINEER.

WEDGE TO PROPOSED ELEVATION (LESS FINAL LAYER OF SURFACE COURSE) OR WEDGE AS NEEDED TO MAINTAIN TRAFFIC. MAINTAIN POSITIVE DRAINAGE, A MAXIMIUM OF 0.04 ROLLOVER, AND REQUIRED DROP-OFFS NEXT TO OPEN LANES IN BOTH EXISTNG AND/OR TEMPORARY TRAVEL LANES.

REMARK ALL MARKINGS AND RETURN TRAFFIC TO THE ORIGINAL TRAFFIC PATTERN AT THE END OF EACH WORKDAY UNLESS OTHERWISE NOTED IN THE PHASING OR AS DIRECTED BY THE ENGINEER.

IF AN EXISTING REGULATORY OR WARNING SIGN IS DAMAGED OR REMOVED DURING A WORKDAY, RESET OR INSTALL A NEW SIGN BEFORE RETURNING TRAFFIC TO THE ORIGINAL TRAFFIC PATTERN.

NOTE: CONTRACTOR MAY DO WORK IN PHASE II AND PHASE III IN EITHER ORDER WITH APPROVAL OF THE ENGINEER.

PHASE I

STEP 1:  
BEFORE BEGINNING ANY CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS AND TRAFFIC CONTROL DEVICES. SEE ROADWAY STANDARD DRAWINGS (RSD) 1101.01. FIELD VERIFY LOCATIONS WITH THE RESIDENT ENGINEER PRIOR TO INSTALLATION.

STEP 2:  
AWAY FROM TRAFFIC AND USING RSD 1101.02 (SHEETS 1 & 14 OF 19) AS NEEDED, INSTALL PEDESTRIAN/BICYCLE DETOUR DEVICES AS SHOWN ON TMP-4 THRU TMP-8. COVER SIGNS UNTIL DETOUR IS IN PLACE. ONCE INSTALLATION IS COMPLETE, SHIFT PEDESTRIANS/CYCLISTS TO DETOUR AND CLOSE GREENWAY.

STEP 3:  
AWAY FROM TRAFFIC, INSTALL ENCASED WATER LINE SECTIONS BETWEEN -L- STA. 15 + 60 +/- TO -L- STA. 19 + 00 +/- (SEE TMP-14).

STEP 4:  
AWAY FROM TRAFFIC, BEGIN CONSTRUCTION OF 78" RCP, REMAINING PORTIONS OF THE WATER LINE, AND 8'x7' RCBC. BEGIN CONSTRUCTION OF NEW LOCATION -L- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AS FOLLOWS:  
FROM -L- STA. 13 + 60 +/- TO -L- STA. 26 + 15 +/-  
FROM -L- STA. 28 + 00 +/- TO -L- STA. 35 + 40 +/-

BEGIN CONSTRUCTION OF THE PROPOSED REALIGNED GREENWAY FROM -Y- STA. 10 + 25 TO -L- STA. 14 + 00.

PHASE II

AWAY FROM TRAFFIC, CONTINUE CONSTRUCTION OF 78" RCP, REMAINING PORTIONS OF THE WATER LINE, THE 8'x7' RCBC, -Y- (GREENWAY) AND NEW LOCATION SECTIONS OF -L-. CONSTRUCT -Y2-.

STEP 1:  
SEE TMP-15 UNLESS OTHERWISE NOTED FOR THE FOLLOWING WORK:  
A) USING RSD 1101.02 (SHEET 1 OF 19) CONSTRUCT TEMPORARY SIDEWALK BETWEEN CURB AND EXISTING SIDEWALK AS SHOWN.  
B) AWAY FROM TRAFFIC, INSTALL PEDESTRIAN CHANNELIZATION ALONG THE WEST SIDE OF THE EXISITING SIDEWALK AS SHOWN FROM -Y2- STA. 15 + 50 TO -Y2- STA. 26 + 00 LT.  
C) CONSTRUCT PROPOSED AND TEMPORARY SIDEWALK. CONSTRUCT A TEMPORARY PATH ACROSS -L- THRU WORKZONE. TIE TEMPORARY PATH ACROSS -L- TO PROPOSED AND TEMPORARY SIDEWALKS USING USING TEMPORARY PAVEMENT OR TEMPORARY RAMPS AS NEEDED. GRADE AS NEEDED TO MAINTAIN POSITIVE DRAINAGE.  
D) REMOVE/RELOCATE PEDESTRIAN CHANNELIZATION AND SHIFT PEDESTRIANS TO PROPOSED/TEMPORARY SIDEWALK AS SHOWN FOR STEP 2. (SEE TMP-16)  
AWAY FROM TRAFFIC AND USING RDS 1101.02 (SHEETS 1 & 14 OF 19) AS NEEDED, INSTALL DETOUR SIGNING AND DEVICES AS SHOWN ON TMP-9 THRU TMP-10 AND RSD 1101.03 (SHEET 1 OF 9). COVER SIGNS UNTIL DETOUR IS IN PLACE.

THE CONTRACTOR SHALL COMPLETE THE WORK REQUIRED FOR PHASE II STEPS 2 AND 3 BETWEEN MONDAY AT 10 PM THAT CONTRATOR ELECTS TO BEGIN THE WORK AND THE FOLLOWING MONDAY AT 6 AM. (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.)

STEP 2:  
PERFORM THE FOLLOWING WORK:  
A) SHIFT TRAFFIC TO DETOUR AND CLOSE -Y2-  
B) AWAY FROM TRAFFIC, CONSTRUCT THE PROPOSED WATERLINE AND TIE TO EXISTING WATERLINE UNDERNEATH EXISITNG -Y2-. AT THE END OF EACH NIGHT WORK PERIOD, COVER TRENCH WITH STEEL PLATE (SEE DETAIL ON TMP-2C), INSTALL APPROPRIATE SIGNING, RETURN TRAFFIC TO THE EXISTING TWO-LANE, TWO-WAY PATTERN AND COVER DETOUR SIGNING.

STEP 3:  
PERFORM THE FOLLOWING WEEKEND WORK:  
A) SHIFT TRAFFIC TO DETOUR AND CLOSE -Y2-  
B) PERFORM ALL REQUIRED TESTING INCLUDING PRESSURE TESTING WITH THRUST BLOCK. INSTALL SECTIONS OF ANY CROSSPIPES ON -Y2- AS NEEDED.  
C) BY THE END OF WEEKEND WORK PERIOD, WITH ENGINEERS APPROVAL, BACKFILL AND COMPACT AREA WITH SOIL AND INCIDENTAL STONE BASE THAT MEETS SECTION 1016-3 CLASS IV SPECIFICATIONS FROM THE 2024 NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES AND COVER WITH STEEL PLATE (SEE DETAIL ON TMP-2C), INSTALL/VERIFY APPROPRIATE SIGNING AND RETURN TRAFFIC TO THE EXISTING TWO-LANE, TWO-WAY PATTERN.

THE CONTRACTOR SHALL COMPLETE THE WORK REQUIRED FOR PHASE II STEP 4 DURING ONE NIGHTLY CLOSURE BETWEEN THE HOURS OF 10 PM ON THE DAY AND THE FOLLOWING MORNING AT 6 AM. (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.)

STEP 4:  
PERFORM THE FOLLOWING WORK:  
A) OBTAIN WATER LINE TESTING RESULTS.  
B) WITH APPROVAL OF THE ENGINEER, SHIFT TRAFFIC TO DETOUR AND CLOSE -Y2-  
C) AWAY FROM TRAFFIC, REMOVE STEEL PLATE WITH ASSOCIATED SIGNING AND PERFORM ASPHALT PAVEMENT REPAIRS AS NEEDED. REPAIR PAVEMENT MARKINGS AND RETURN TRAFFIC TO THE EXISTING TWO-LANE, TWO-WAY PATTERN

STEP 5:  
MAINTAINING VEHICULAR AND PEDESTRIAN TRAFFIC IN EXISTING PATTERN AND USING RSD 1101.02 (SHEET 1 OF 19) AS NEEDED, CONSTRUCT DRAINAGE CROSSING -Y2- AND MINIMUM OF 24' PAVEMENT (INCLUDES PAVED SHOULDER) OF RIGHT SIDE OF -Y2- UP TO BUT NOT INCLUDING THE LAST LAYER OF SURFACE COURSE AS SHOWN ON TMP-17. WEDGING ACROSS ROADWAY TO MAINTAIN POSITIVE DRAINAGE.  
REMOVE ALL TRAFFIC DEVICES & SIGNS ASSOCIATED WITH -Y2- DETOUR.

STEP 6:  
USING RSD 1101.02 (SHEETS 1 AND 14 OF 19) AND RSD 1101.11, INSTALL APPROPRIATE TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS FOR A TWO-LANE, TWO-WAY PATTERN AS SHOWN ON TMP-18 ON RIGHT SIDE OF -Y2- BETWEEN STA 10 + 00 +/- AND STA 27 + 00 +/-, THEN SHIFT TRAFFIC INTO RIGHT SIDE PATTERN FOR PHASE II, STEP 7.

STEP 7:  
USING RSD 1101.02 (SHEET 1 OF 19) AS NEEDED, COMPLETE CONSTRUCTION OF -Y2- UP TO BUT NOT INCLUDING THE LAST LAYER OF SURFACE COURSE AS SHOWN ON TMP-18.

PHASE III

AWAY FROM TRAFFIC, CONTINUE CONSTRUCTION OF 78" RCP, REMAINING PORTIONS OF THE WATER LINE, THE 8'x7' RCBC, -Y- (GREENWAY), AND NEW LOCATION SECTIONS OF -L-. CONSTRUCT -Y1-.

STEP 1:  
AWAY FROM TRAFFIC AND USING RDS 1101.02 (SHEETS 1 & 14 OF 19) AND RSD 1101.03 (SHEET 1 OF 9) AS NEEDED, INSTALL:  
- PEDESTRIAN DETOUR DEVICES AS SHOWN ON TMP-13.  
- -Y1- DETOUR SIGNING AND DEVICES AS SHOWN ON TMP-11 THRU TMP-12.

COVER SIGNS UNTIL DETOUR(S) ARE IN PLACE.  
ONCE INSTALLATION(S) ARE COMPLETE, SHIFT PEDESTRIANS TO DETOUR AND CLOSE EXISTING SIDEWALK ON -Y1- LT.

THE CONTRACTOR SHALL COMPLETE THE WORK REQUIRED FOR PHASE III STEPS 2 AND 3 BETWEEN MONDAY AT 10 PM THAT CONTRATOR ELECTS TO BEGIN THE WORK AND THE FOLLOWING MONDAY AT 6 AM. (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.)

STEP 2:  
PERFORM THE FOLLOWING WORK:  
A) SHIFT TRAFFIC TO DETOUR AND CLOSE -Y1-  
B) AWAY FROM TRAFFIC, CONSTRUCT THE PROPOSED WATERLINE AND TIE TO THE EXISTING WATER LINE UNDERNEATH EXISITNG -Y1-. AT THE END OF EACH NIGHT WORK PERIOD, COVER TRENCH WITH STEEL PLATE (SEE DETAIL ON TMP-2C), INSTALL SIGNS "STEEL PLATE AHEAD" AND "BUMP", RETURN TRAFFIC TO THE EXISTING PATTERN, AND COVER DETOUR SIGNING.

STEP 3:  
PERFORM THE FOLLOWING WEEKEND WORK:  
A) SHIFT TRAFFIC TO DETOUR AND CLOSE -Y1-  
B) PERFORM ALL REQUIRED TESTING INCLUDING PRESSURE TESTING WITH THRUST BLOCKS.  
BY THE END OF WEEKEND WORK PERIOD, WITH ENGINEERS APPROVAL BACKFILL AND COMPACT AREA WITH SOIL AND INCIDENTAL STONE BASE THAT MEETS SECTION 1016-3 CLASS IV SPECIFICATIONS FROM THE 2024 NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES AND COVER WITH STEEL PLATE (SEE DETAIL ON TMP-2C), INSTALL/VERIFY APPROPRIATE SIGNING AND RETURN TRAFFIC TO THE EXISTING PATTERN.

THE CONTRACTOR SHALL COMPLETE THE WORK REQUIRED FOR PHASE III STEP 4 DURING ONE NIGHTLY CLOSURE BETWEEN THE HOURS OF 10 PM ON THE DAY AND THE FOLLOWING MORNING AT 6 AM. (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.)

STEP 4:  
PERFORM THE FOLLOWING WORK:  
A) OBTAIN WATER LINE TESTING RESULTS.  
B) WITH APPROVAL OF THE ENGINEER, SHIFT TRAFFIC TO DETOUR AND CLOSE -Y1-  
C) AWAY FROM TRAFFIC, REMOVE STEEL PLATE WITH ASSOCIATED SIGNING AND PERFORM ASPHALT PAVEMENT REPAIRS AS NEEDED. REPAIR PAVEMENT MARKINGS AND RETURN TRAFFIC TO THE EXISTING PATTERN

STEP 5:  
USING RSD 1101.02 (SHEETS 3 AND 14 OF 19) AND RSD 1101.11, INSTALL APPROPRIATE TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS FOR A THREE-LANE, TWO-WAY PATTERN AS SHOWN ON TMP-19 AND TMP-20 AND SHIFT TRAFFIC INTO THREE LANE PATTERN FOR PHASE III, STEP 6.  
REMOVE ALL TRAFFIC CONTROL DEVICES & SIGNS ASSOCIATED WITH -Y1- DETOUR.

STEP 6:  
AWAY FROM TRAFFIC, USING RSD 1101.02 (SHEET 3 OF 19) AND RSD 1101.11 AS NEEDED, CONSTRUCT LEFT SIDE OF -Y1- UP TO BUT NOT INCLUDING THE LAST LAYER OF SURFACE COURSE AS SHOWN ON TMP-19 AND TMP-20. WORK INCLUDES BUT IS NOT LIMITED TO:  
- SEWER LINE, LEFT SIDE OF -Y1- STA 18 + 50 +/-  
- WIDENING & DRAINAGE, LEFT SIDE OF -Y1-  
- REMOVE MEDIAN C&G, CONSTRUCT PORTION OF 18" CROSSPIPE, AND INSTALL TEMPORARY/PROPOSED PAVEMENT IN MEDIAN BETWEEN -Y1- STA 14 + 76 +/- TO STA 16 + 71 +/- USING APPROPRIATE COMBINATIONS OF THE FOLLOWING:  
- RSD 1101.02, SHEET 3 OF 19, FOR CLOSURE OF LEFT LANE OF NB -Y1- TRAFFIC  
- RSD 1101.11, USING DRUMS, TEMPORARILY SHIFT SB -Y1- TRAFFIC INTO RIGHT LANE  
- REMAINING WATER LINE -Y1- LEFT SIDE.

STEP 7:  
AWAY FROM TRAFFIC AND USING RDS 1101.02 (SHEETS 3 OF 19) AS NEEDED, INSTALL PEDESTRIAN DETOUR DEVICES AS SHOWN IN INSET ON TMP-13. COVER SIGNS UNTIL DETOUR IS IN PLACE.  
ONCE INSTALLATION IS COMPLETE, SHIFT PEDESTRIANS TO DETOUR AND CLOSE EXISTING SIDEWALK ON -Y1- RT.  
USING RSD 1101.02 (SHEETS 3 AND 14 OF 19) AND RSD 1101.11, INSTALL APPROPRIATE TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS FOR A THREE-LANE, TWO-WAY PATTERN AS SHOWN ON TMP-21 AND TMP-22 AND SHIFT TRAFFIC INTO THREE-LANE PATTERN FOR PHASE III, STEP 8.

STEP 8:  
AWAY FROM TRAFFIC, USING RSD 1101.02 (SHEET 3 OF 19) AND RSD 1101.11 AS NEEDED, CONSTRUCT RIGHT SIDE OF -Y1- UP TO BUT NOT INCLUDING THE LAST LAYER OF SURFACE COURSE AS SHOWN ON TMP-21 AND TMP-22. WORK INCLUDES BUT IS NOT LIMITED TO:  
- SEWER LINE, RIGHT SIDE OF -Y1- STA 18 + 50 +/-  
- WIDENING & DRAINAGE, RIGHT SIDE OF -Y1-  
- 18" CROSSPIPE ON -Y1- RT.  
- REMAINING WATER LINE -Y1- RIGHT SIDE.



H. W. LOCHNER, INC.

2840 PLAZA PLACE, SUITE 202

RALEIGH, NC 27612

(919) 571-7111

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PHASING



PROJ. REFERENCE NO.	SHEET NO.
HL - 0033	TMP - 3A

PHASING NOTES CONT.

STEP 9:  
USING RSD 1101.02 (SHEETS 3 AND 14 OF 19), INSTALL TEMPORARY PAINT PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES AS SHOWN ON TMP-23 AND TMP-24 FOR PHASE III STEP 10 CONSTRUCTION. SHIFT TRAFFIC INTO THE PHASE III STEP 10 PATTERN.  
REMOVE ALL PEDESTRIAN DETOURS ALONG -Y1-.

STEP 10:  
CONSTRUCT MEDIAN ISLAND BETWEEN -Y1- STA 14+76+/- AND STA 16+50+/- IN THE FOLLOWING MANNER:  
A) USING RSD 1101.02 (SHEETS 3 AND 14 OF 19), CLOSE NB & SB INTERIOR LANES.  
B) REMOVE TEMPORARY PAVEMENT AND CONSTRUCT MEDIAN ISLAND.  
C) REPAIR PAVEMENT MARKINGS AND RETURN TRAFFIC TO THE PATTERN SHOWN IN PHASE III STEP 9.

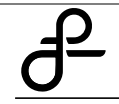
PHASE IV

STEP 1:  
AWAY FROM TRAFFIC, COMPLETE CONSTRUCTION OF 78" RCP, REMAINING PORTIONS OF THE WATER LINE, THE 8'x7' RCBC, -Y- (GREENWAY), AND NEW LOCATION SECTIONS OF -L-.  
AWAY FROM TRAFFIC, CONSTRUCT MEDIAN MONOLITHIC CONCRETE ISLANDS (KEYED-IN) AT THE FOLLOWING LOCATIONS:  
- FROM -L- STA. 23+80+/- TO -L- STA. 26+60+/-  
- FROM -L- STA. 27+80+/- TO -L- STA. 35+60+/-

STEP 2:  
AWAY FROM TRAFFIC AND USING RSD 1101.02 (SHEETS 1, 2, 3, 7 & 14 OF 19) PERFORM THE FOLLOWING WORK:  
- MILL -Y1- FROM -Y1- STA 25+00+/- TO A POINT 600' NORTH AS SHOWN ON ROADWAY DETAIL SHEET 2B-6.  
- MILL -L- FROM -L- STA 12+00 TO -L- STA 13+60  
- PLACE FINAL SURFACE COURSE, PERMANENT PAVEMENT MARKINGS AND MARKERS AND SIGNING ON ENTIRE PROJECT. SEE SIGNING AND DELINEATION PLANS FOR MORE INFORMATION.

STEP 3:  
ACTIVATE SIGNALS, REMOVE SIGNAL HEAD COVERINGS, REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES AND OPEN ALL LANES AND ROADS TO TRAFFIC.

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DIVISION OF HIGHWAYS

STATE OF NORTH CAROLINA

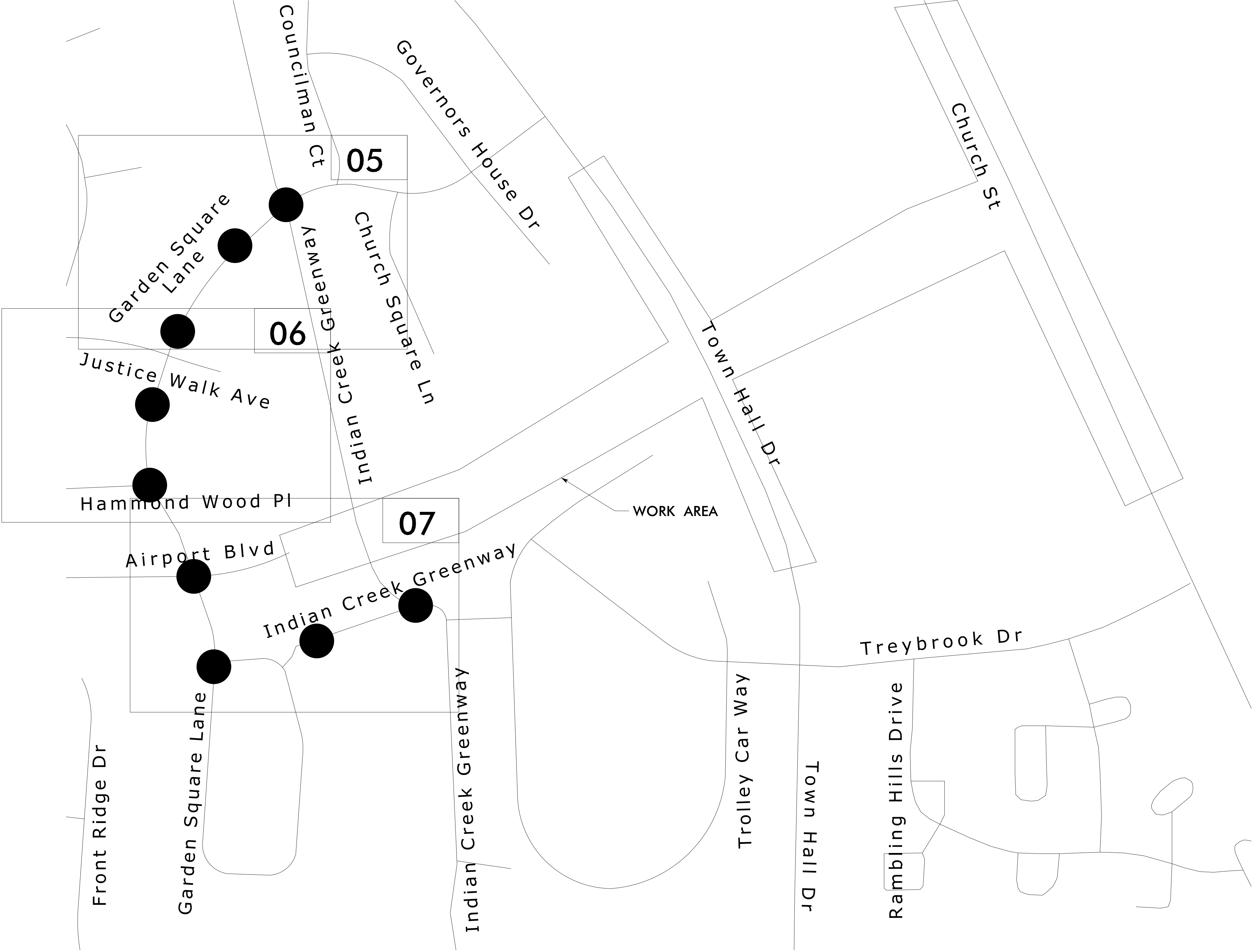
DEPARTMENT OF TRANSPORTATION

WORK ZONE TRAFFIC CONTROL

PHASING

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NOTES

OFFSITE DETOUR IS APPROXIMATELY 0.36 MILES IN LENGTH.

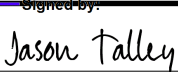
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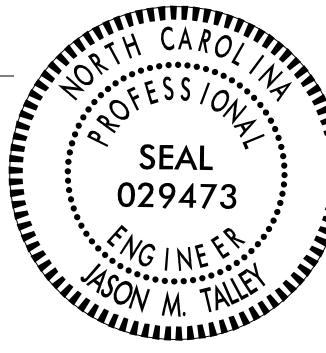


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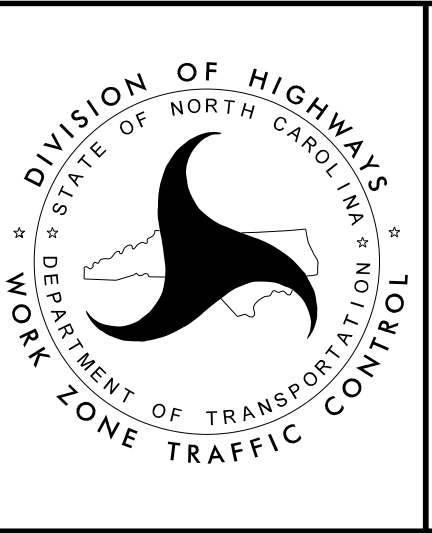
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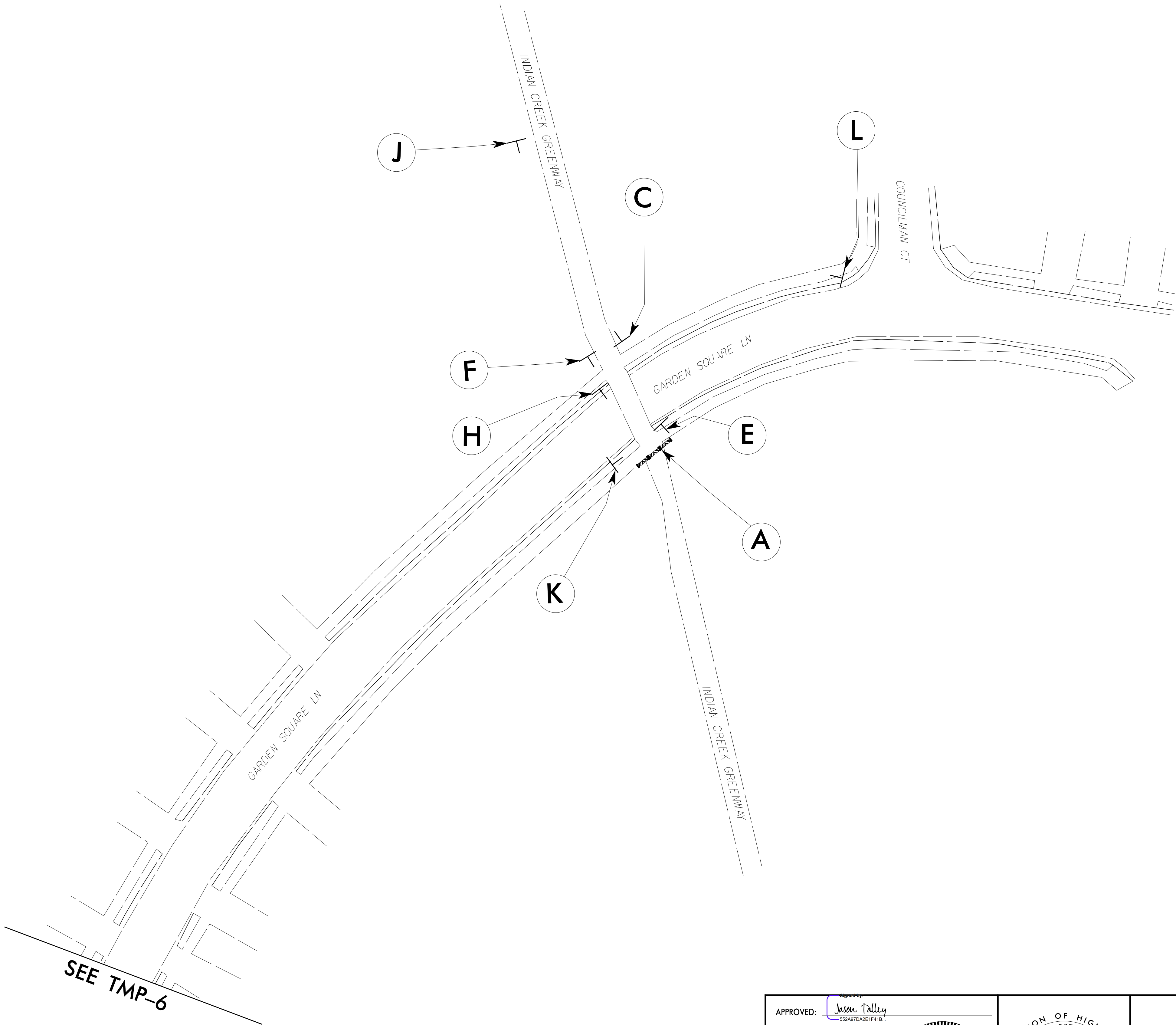


PHASE I DETAILS  
STEP 2  
PEDESTRIAN/BICYCLE  
OFFSITE DETOUR  
OVERVIEW DETAIL

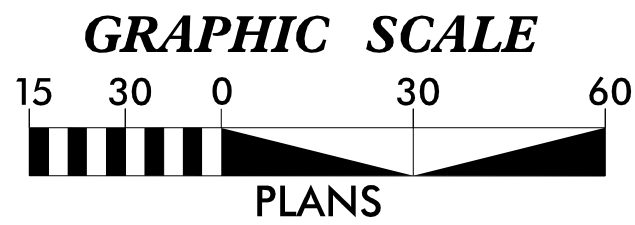
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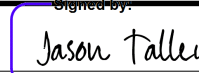
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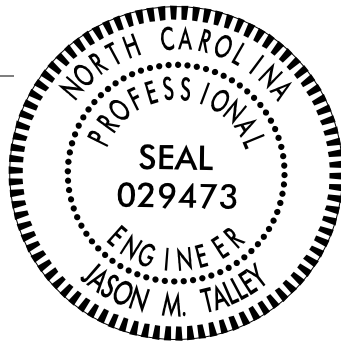
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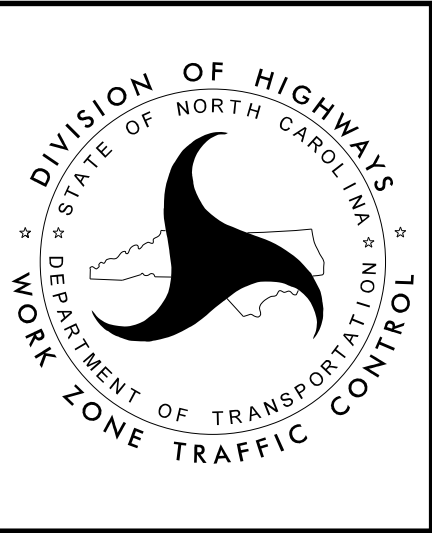
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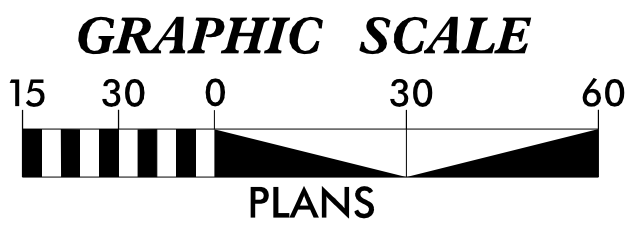
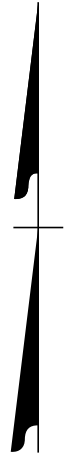
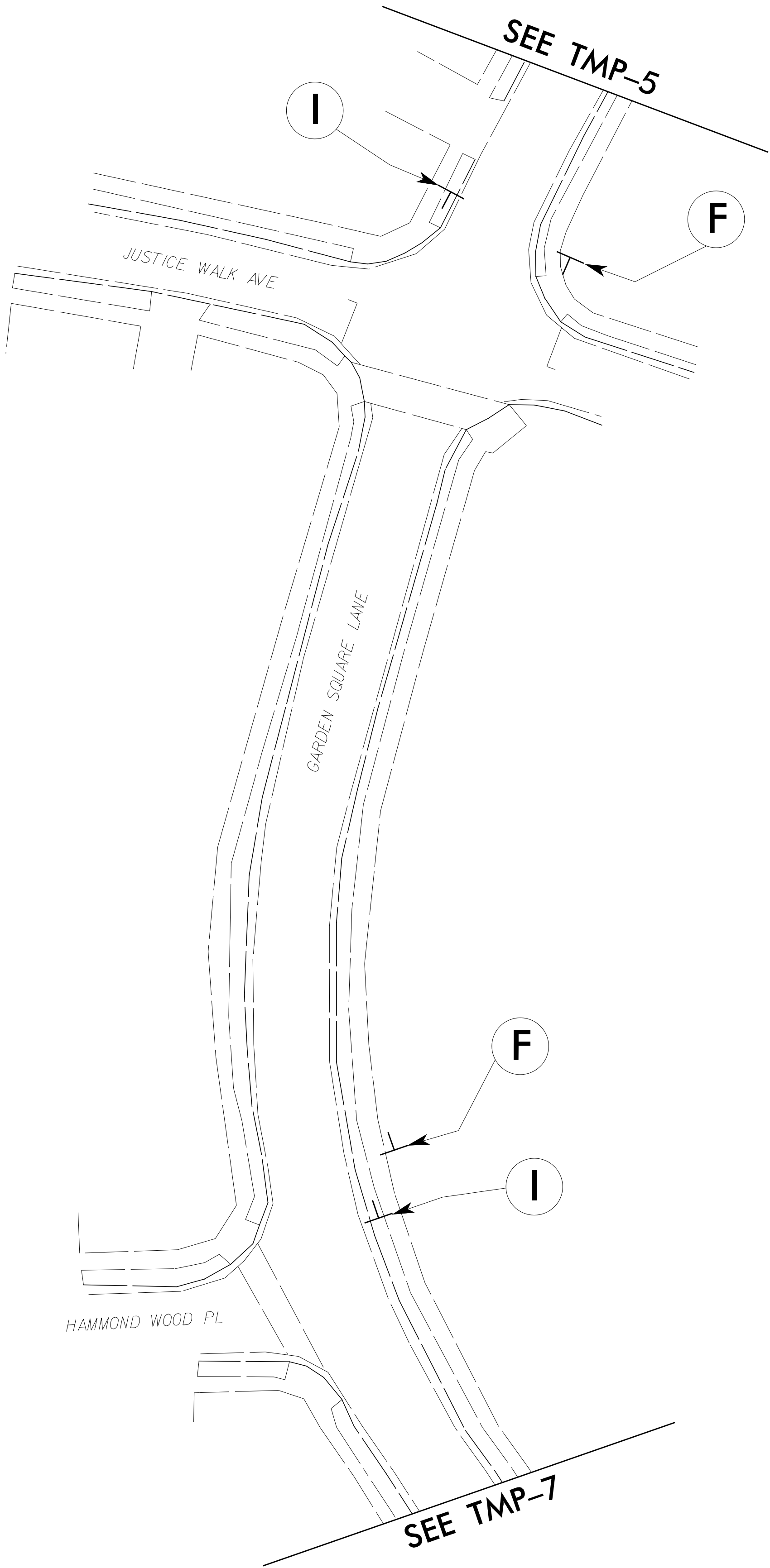
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**PHASE I DETAILS  
STEP 2  
PEDESTRIAN/BICYCLE  
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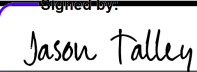
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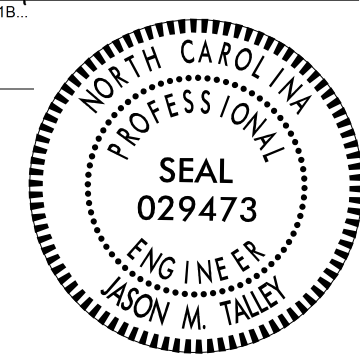
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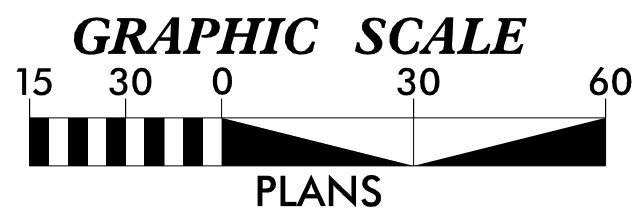
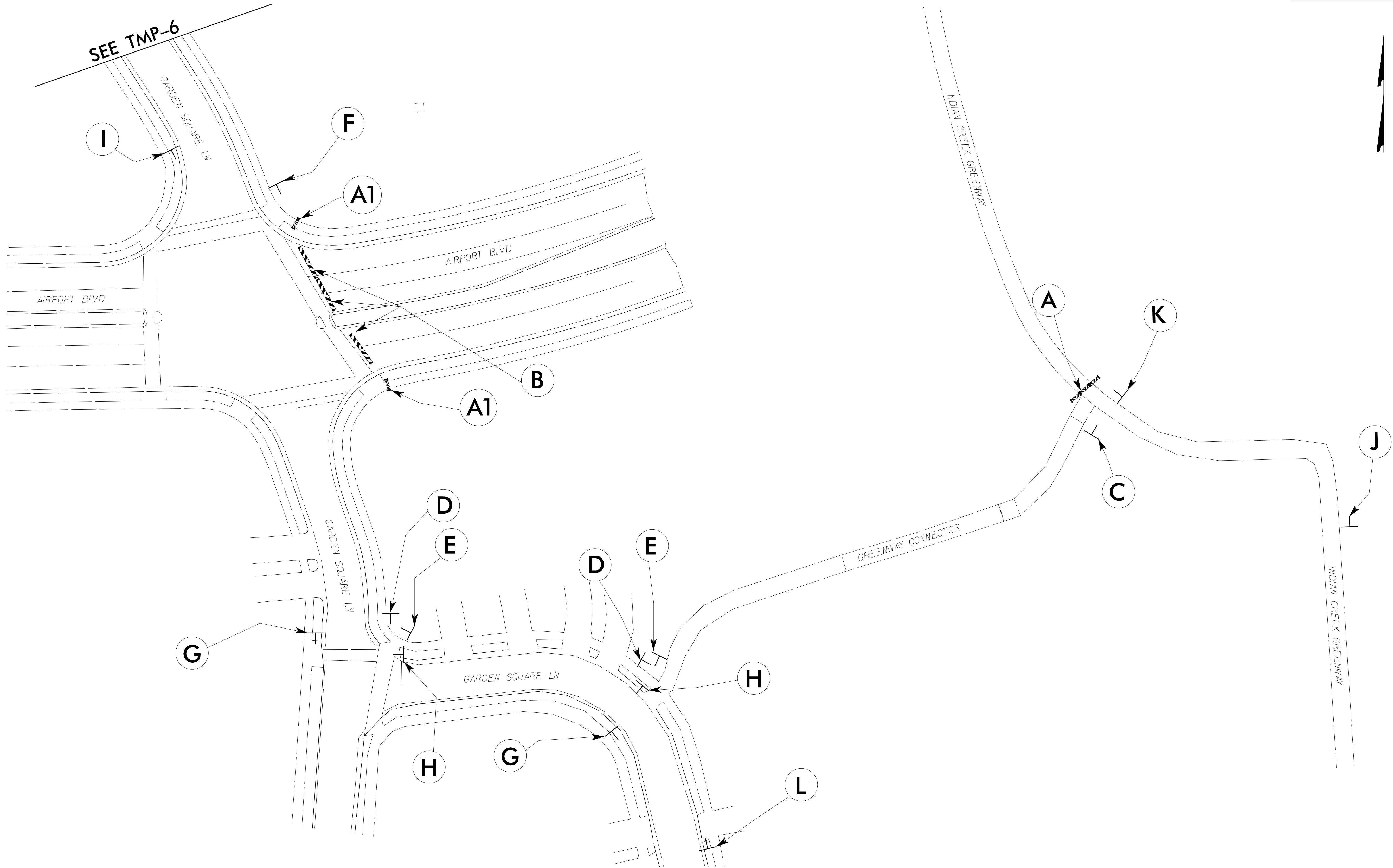
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PHASE I DETAILS  
STEP 2  
PEDESTRIAN/BICYCLE  
OFFSITE DETOUR



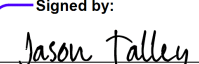
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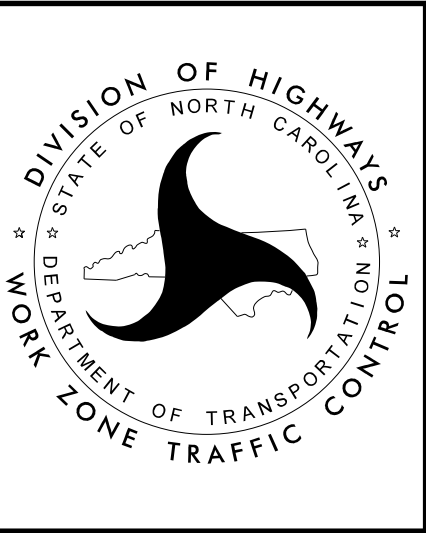
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RALEIGH, NC 27612  
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DATE: 1/5/2026

**SEAL**  
029473  
NORTH CAROLINA  
PROFESSIONAL  
ENGINEER  
JASON M. TALLEY

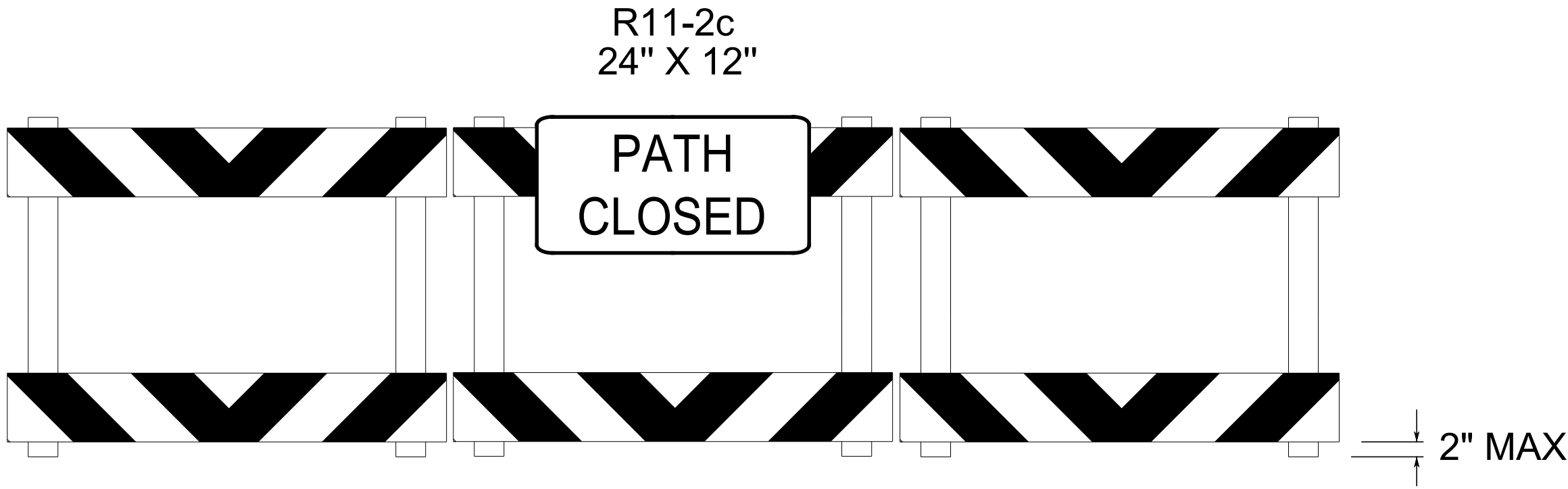
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**PHASE I DETAILS  
STEP 2  
PEDESTRIAN/BICYCLE  
OFFSITE DETOUR**

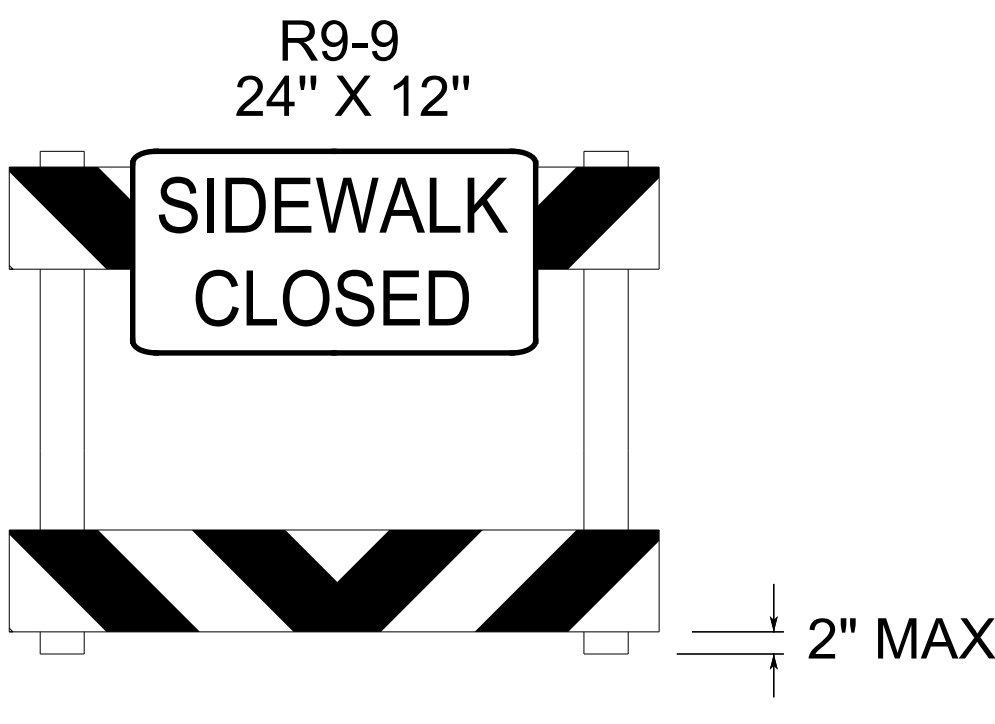
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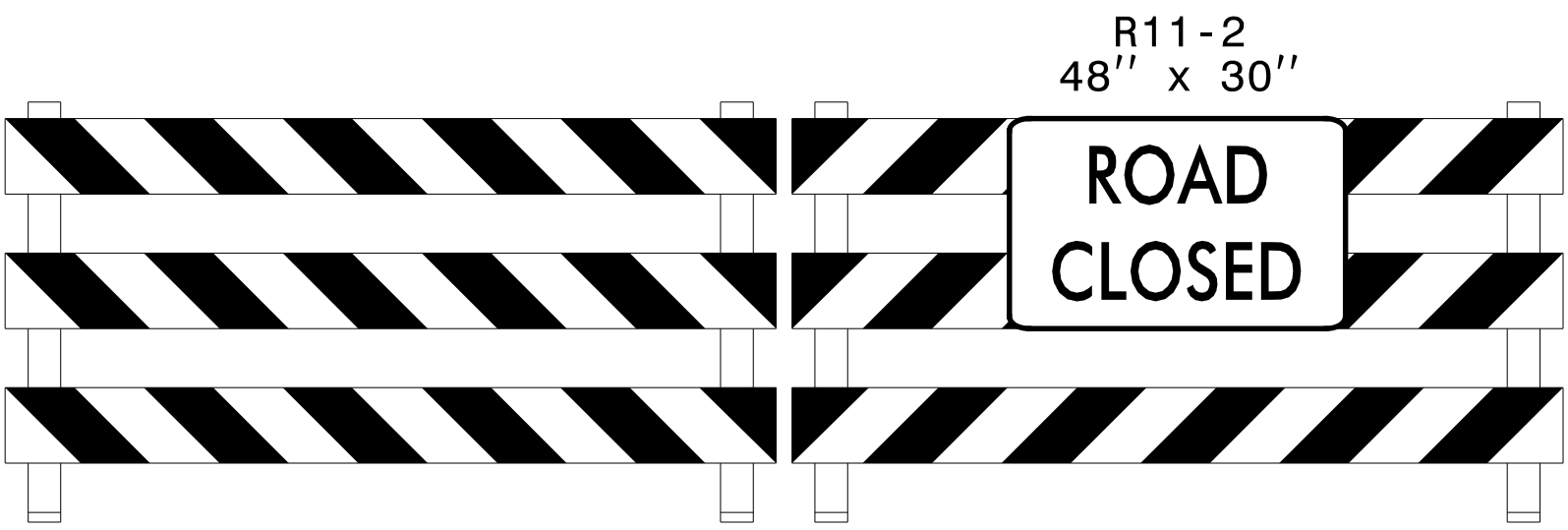
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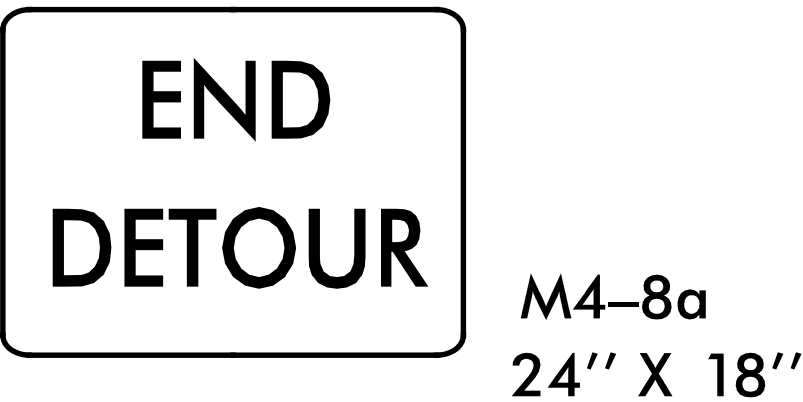
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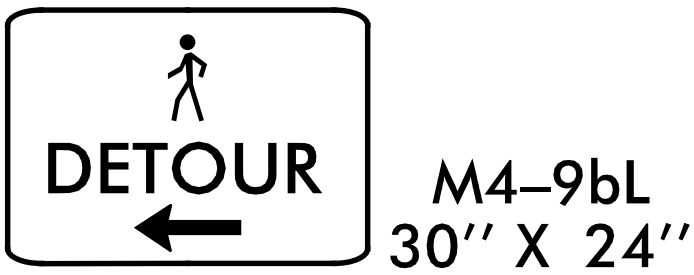


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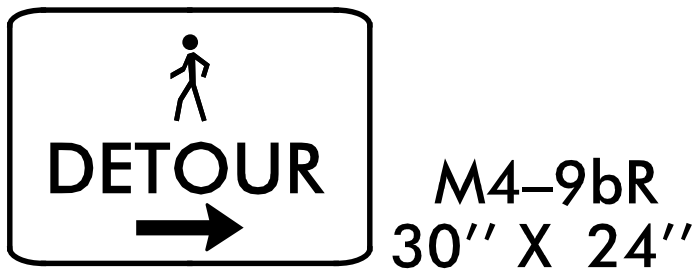
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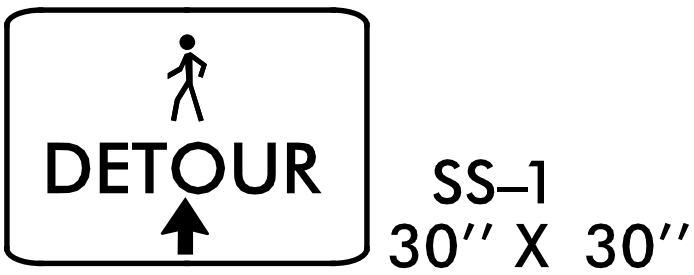
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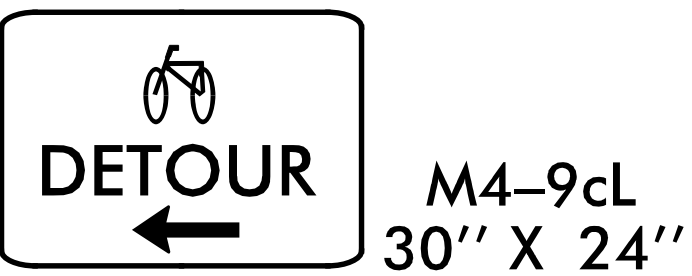
D



E



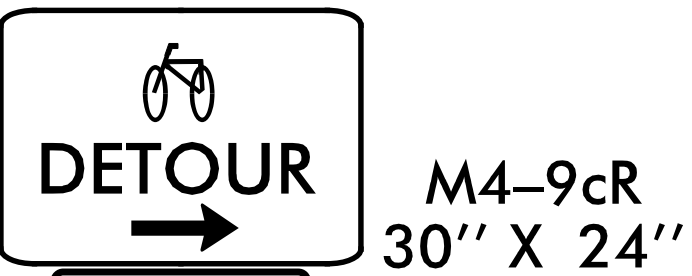
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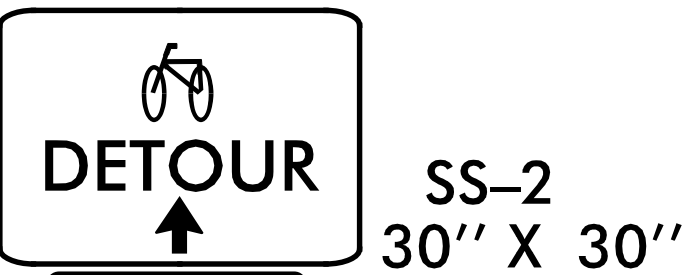
G



H



\*W16-1P  
18" X 12"  
W/ORANGE SHEETING

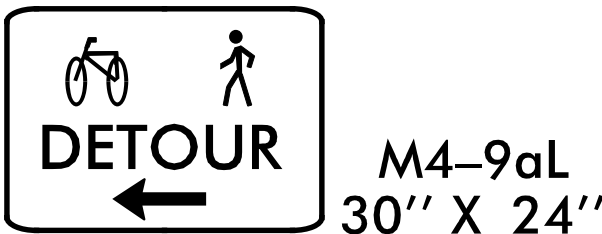


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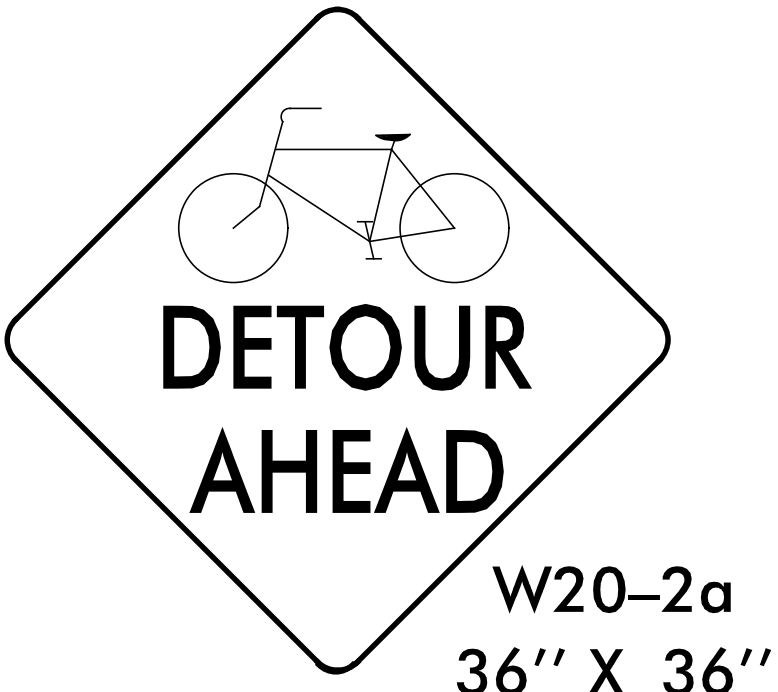
\*W16-1P  
18" X 12"  
W/ORANGE SHEETING



J



K



L


NOTES

\*W16-1P WILL HAVE ORANGE SHEETING  
NOT TO SCALE

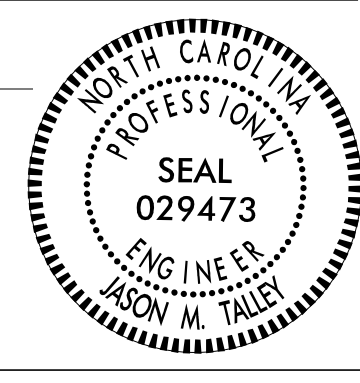
**Lochner**

H. W. LOCHNER, INC.  
2840 PLAZA PLACE, SUITE 202  
RALEIGH, NC 27612  
(919) 571-7111

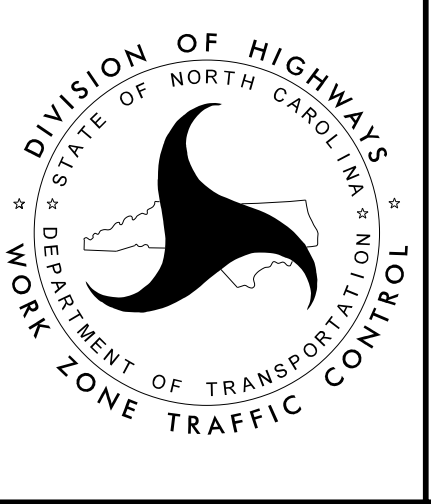
NC License  
Number F-0159

APPROVED: 

DATE: 1/5/2026



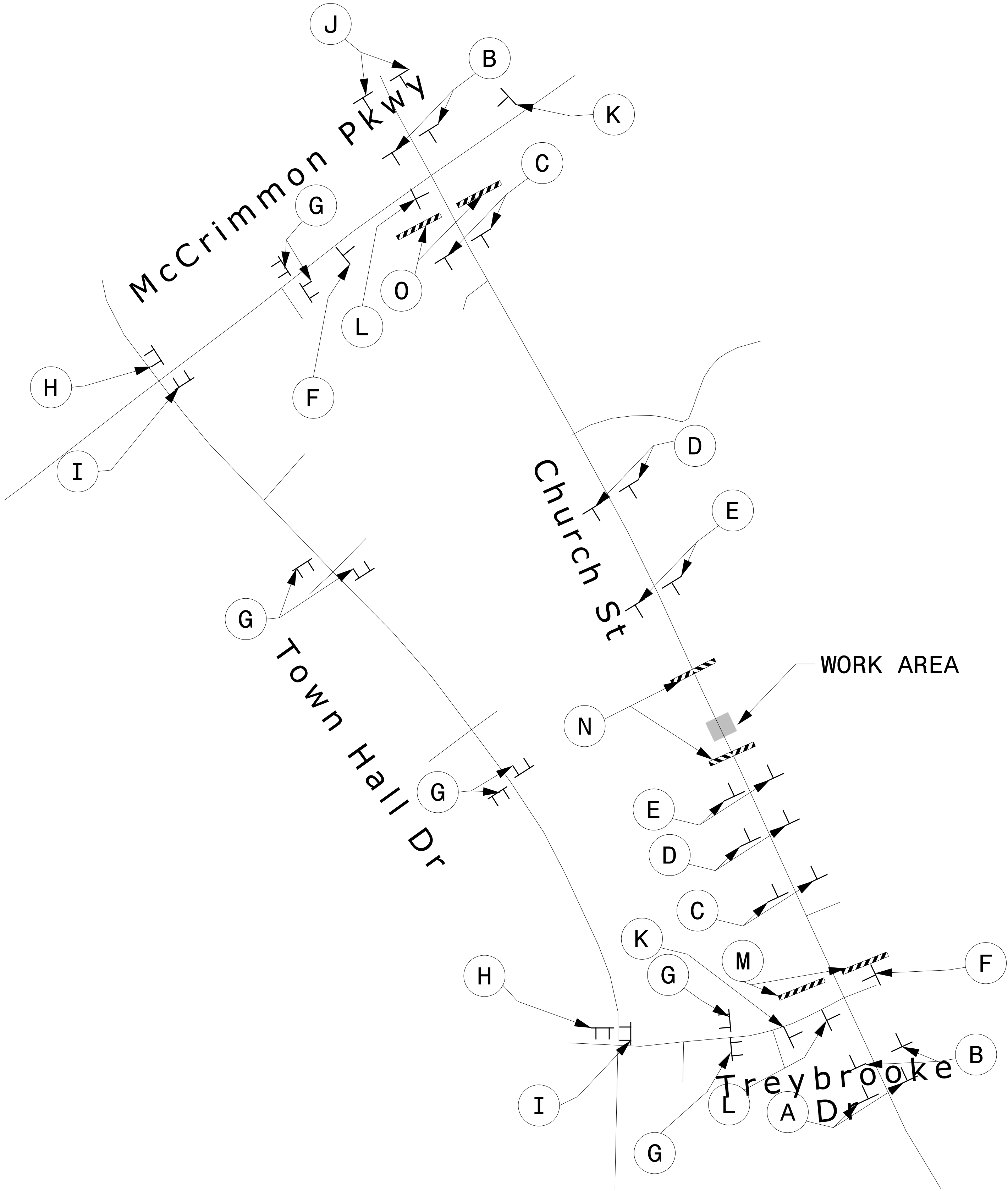
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UNLESS ALL SIGNATURES COMPLETED**



PHASE I DETAILS  
STEP 2  
DETOUR SIGNAGE



PROJ. REFERENCE NO.	SHEET NO.
HL-0033	TMP-9

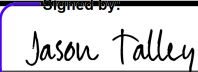


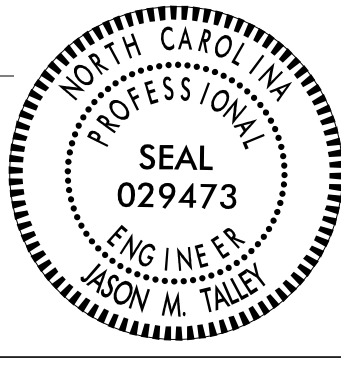
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User:jason.talley

**Lochner**

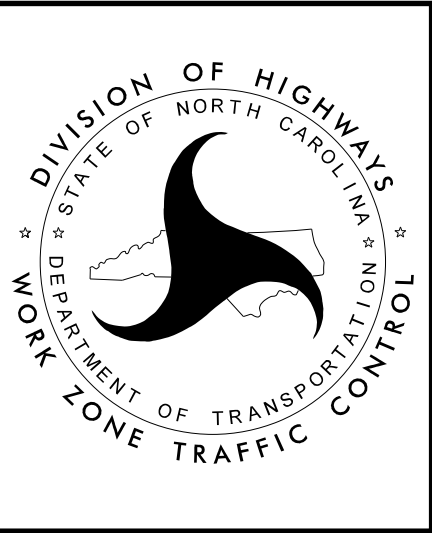
H. W. LOCHNER, INC.  
2840 PLAZA PLACE, SUITE 202  
RALEIGH, NC 27612  
(919)571-7111

NC License  
Number F-0159

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DATE: 1/5/2026

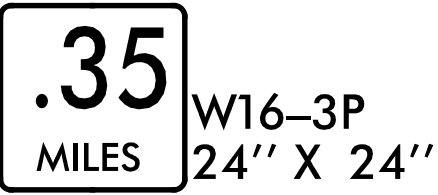


**DOCUMENT NOT CONSIDERED FINAL  
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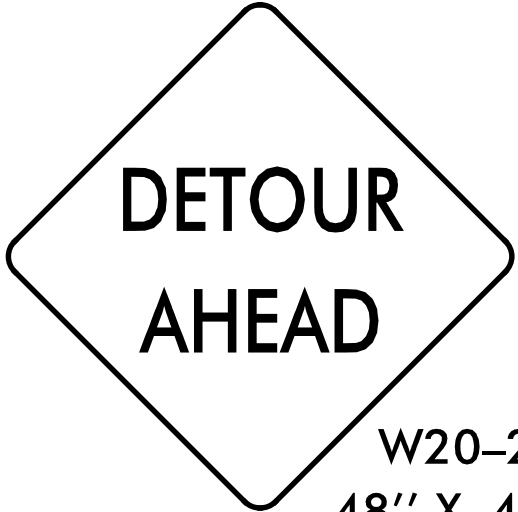


**CHURCH STREET  
OFFSITE DETOUR**

PROJ. REFERENCE NO.	SHEET NO.
HL - 0033	TMP - 10



A



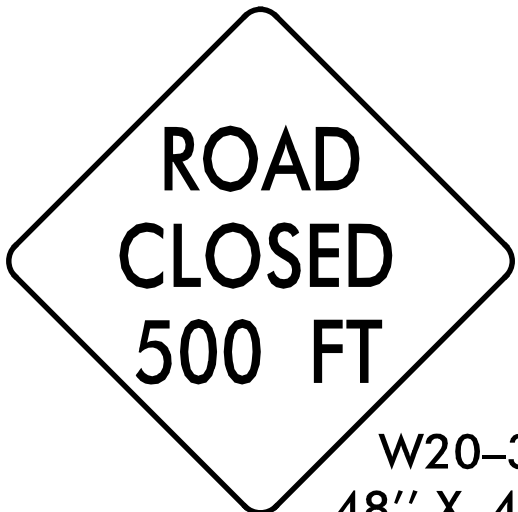
B



C



D



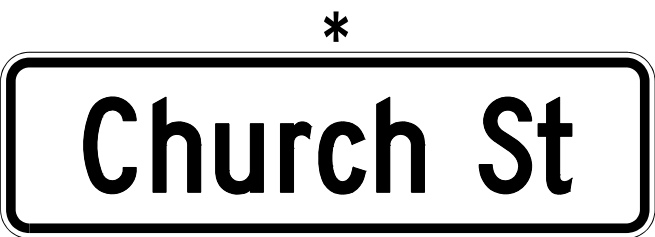
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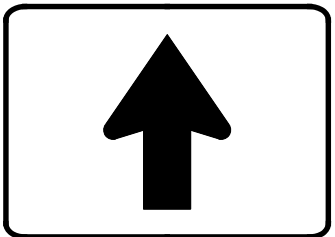
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SP-4R  
42" X 12"

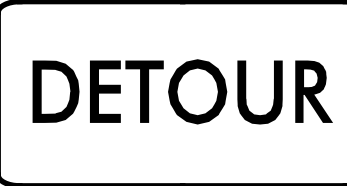
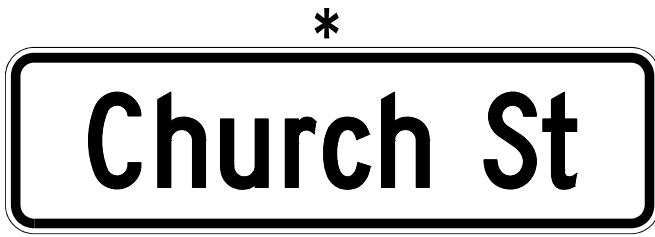


M4-8  
24" X 12"

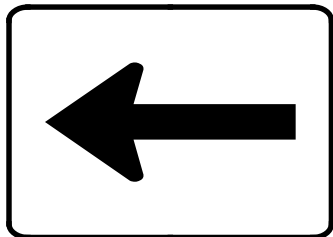


M6-3  
21" X 15"

G

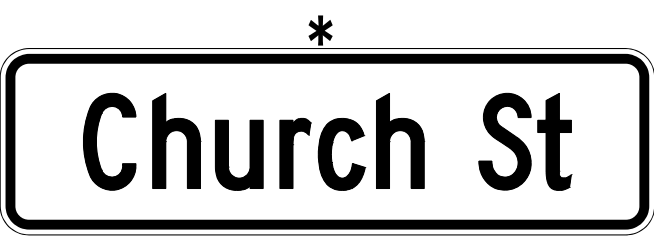


M4-8  
24" X 12"

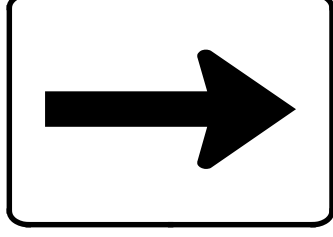


M6-1L  
21" X 15"

H



M4-8  
24" X 12"

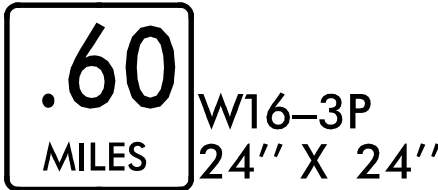


M6-1R  
21" X 15"

I



W20-3  
48" X 48"



J

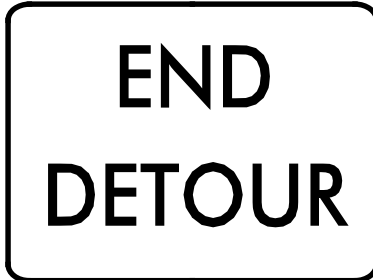


W20-3  
48" X 48"



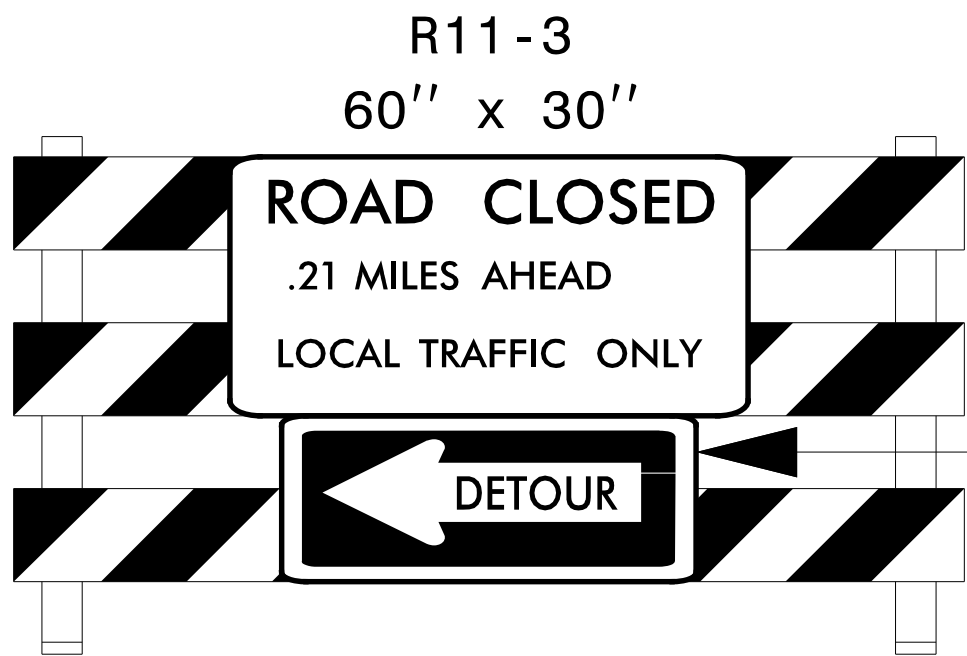
SP-4L  
42" X 12"

K



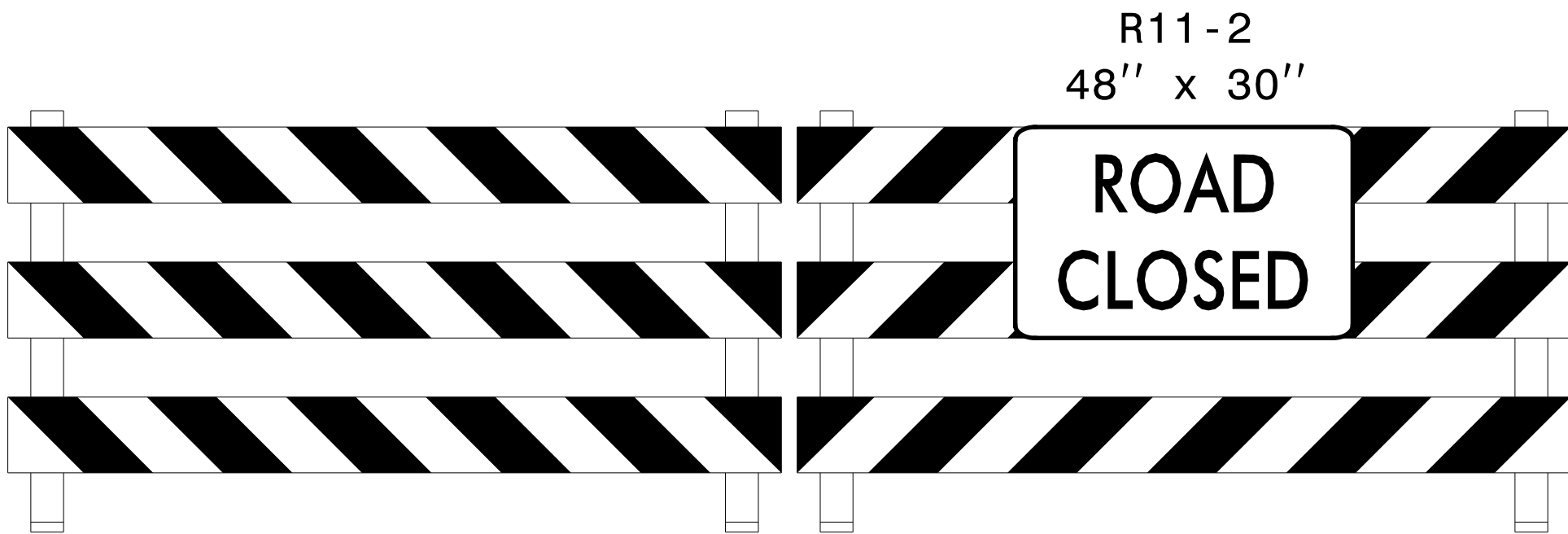
M4-8 A  
24" X 18"

L



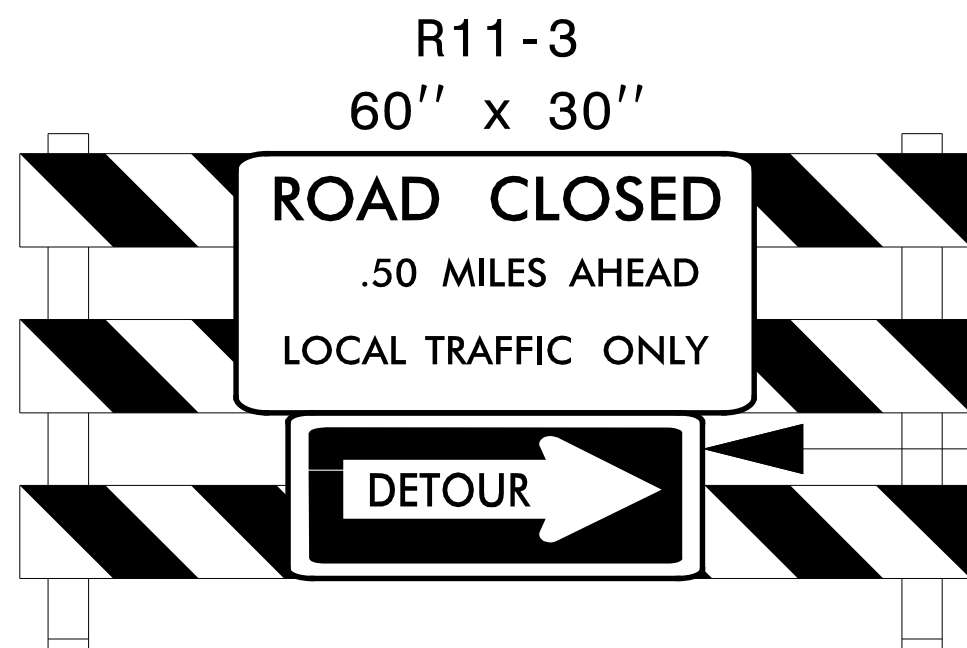
TYPE III BARRICADE

M



TYPE III BARRICADE (S)

N



TYPE III BARRICADE

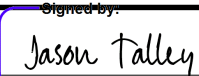
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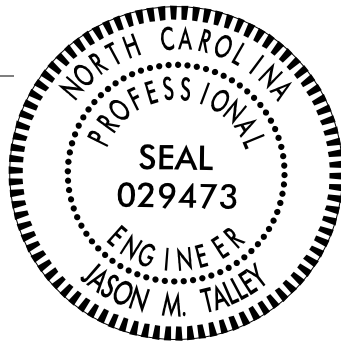
\*NOTE: SEE TMP-2A FOR SPECIAL SIGN DESIGN

**Lochner**

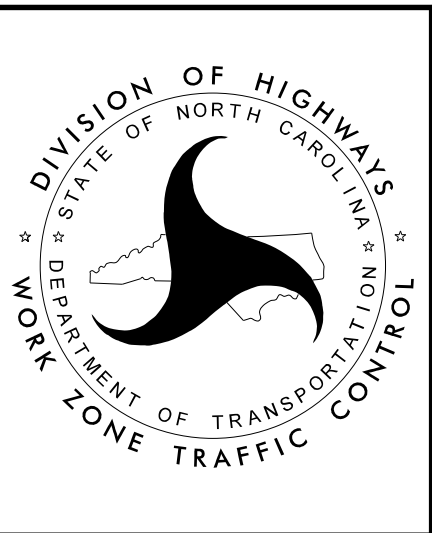
H. W. LOCHNER, INC.  
2840 PLAZA PLACE, SUITE 202  
RALEIGH, NC 27612  
(919)571-7111

NC License  
Number F-0159

APPROVED:   
DATE: 1/5/2026



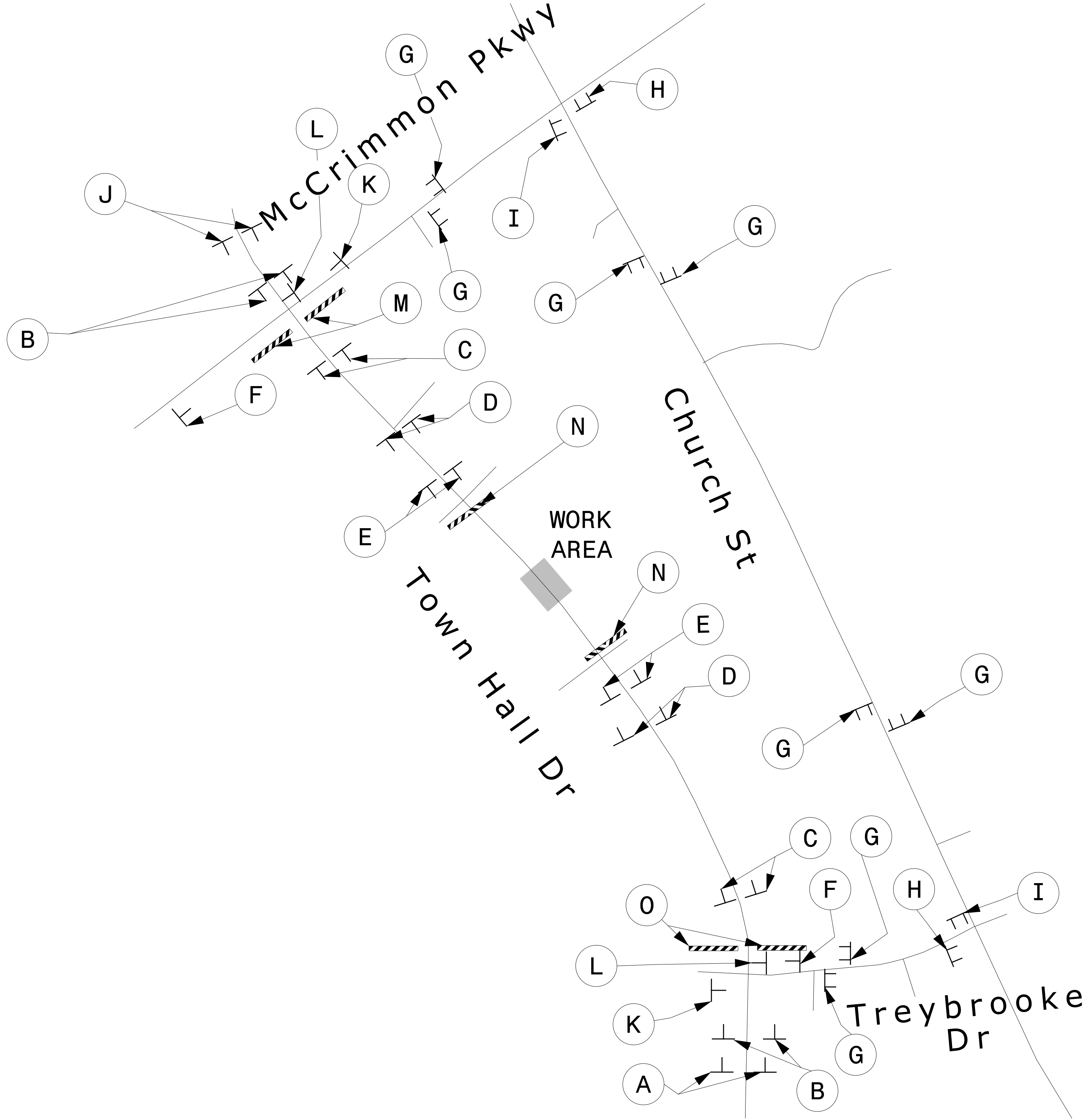
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UNLESS ALL SIGNATURES COMPLETED**



CHURCH STREET  
OFFSITE DETOUR  
SIGNAGE



PROJ. REFERENCE NO.	SHEET NO.
HL-0033	TMP-11

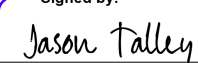


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User:jason.talley

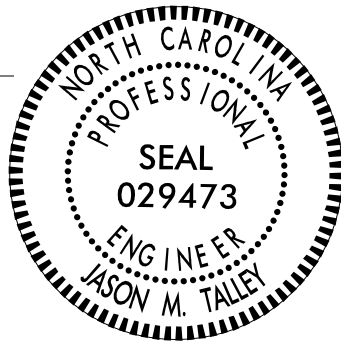
**Lochner**

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(919)571-7111

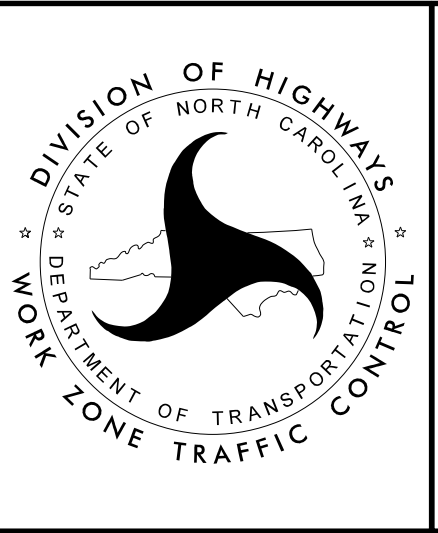
NC License  
Number F-0159

APPROVED:   
552AB7DA2E1F41B...

DATE: 1/5/2026



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UNLESS ALL SIGNATURES COMPLETED**



**TOWN HALL DRIVE  
OFFSITE DETOUR**

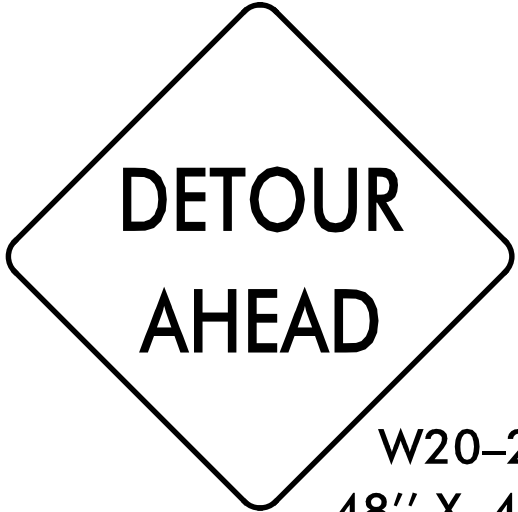


W20-3  
48" X 48"



W16-3P  
24" X 24"

A



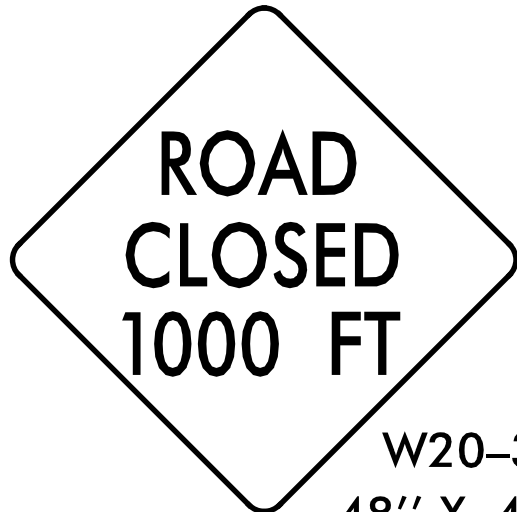
W20-2  
48" X 48"

B



W20-3  
48" X 48"

C



W20-3  
48" X 48"

D



W20-3  
48" X 48"

E



W20-3  
48" X 48"

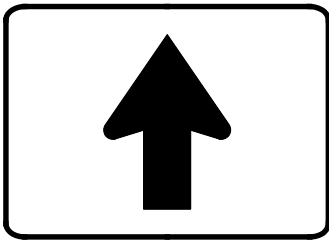
F



SP-4R  
42" X 12"



M4-8  
24" X 12"

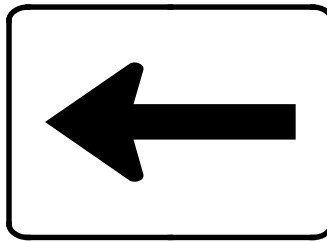


M6-3  
21" X 15"

G

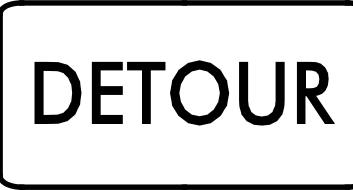


M4-8  
24" X 12"

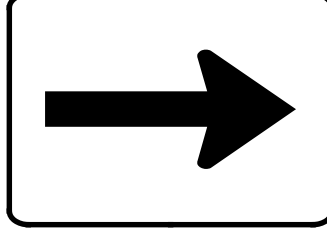


M6-1L  
21" X 15"

H



M4-8  
24" X 12"



M6-1R  
21" X 15"

I



W20-3  
48" X 48"



W16-3P  
24" X 24"

J

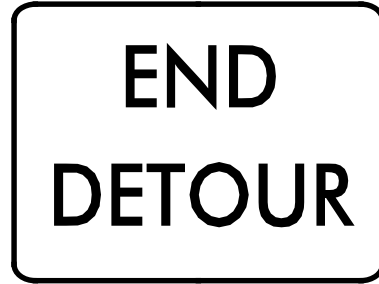


W20-3  
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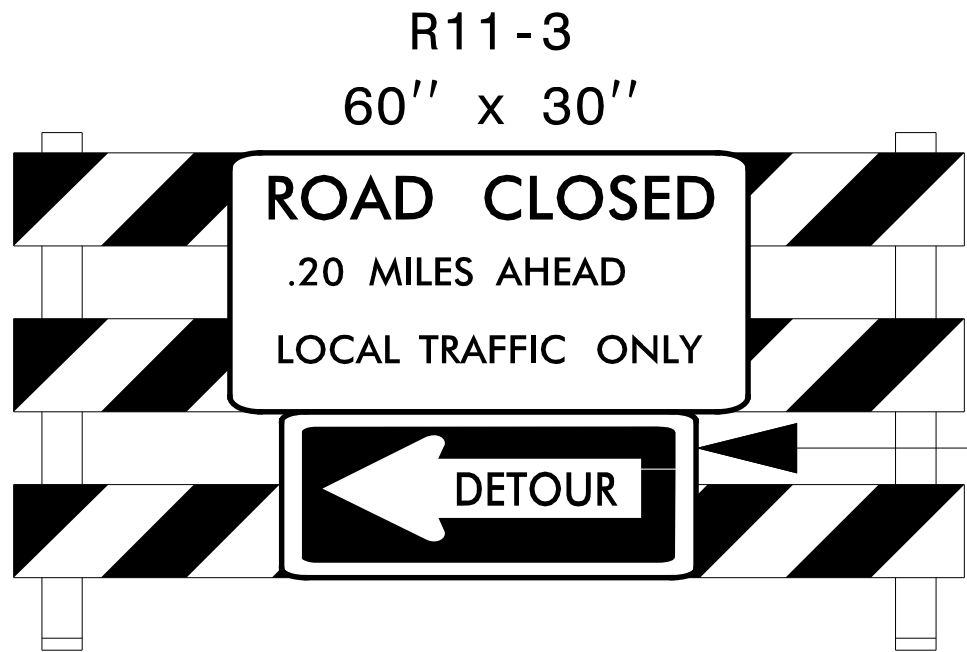
SP-4L  
42" X 12"

K



M4-8 A  
24" X 18"

L



R11-3  
60" x 30"

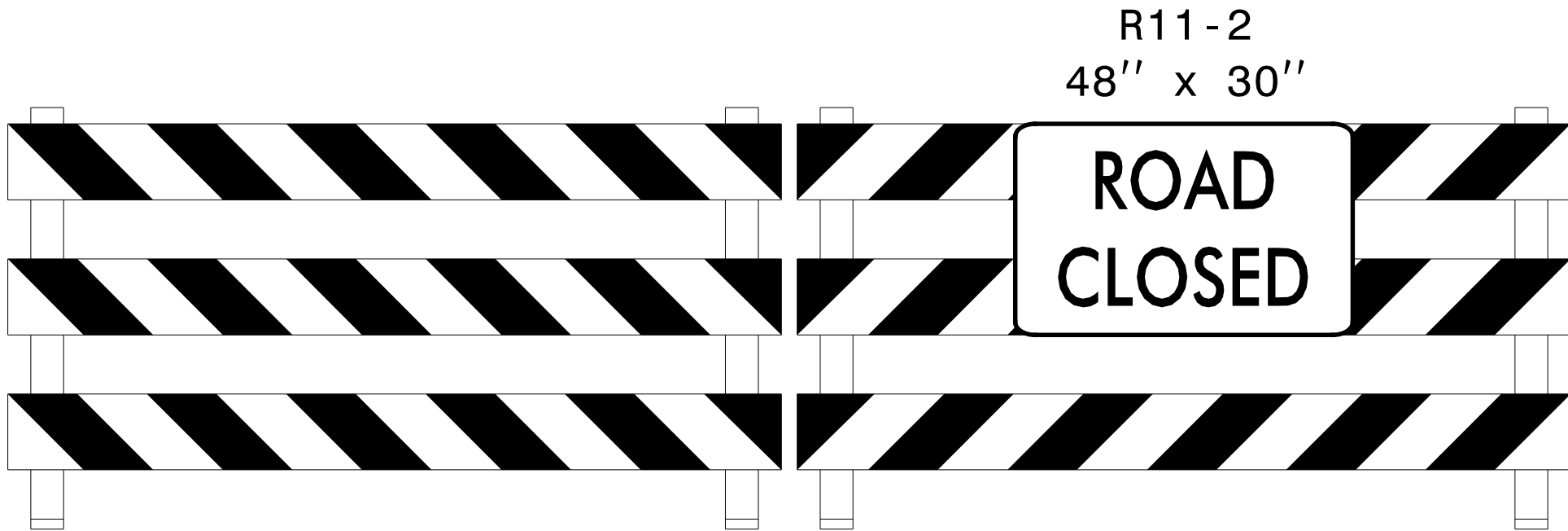
ROAD CLOSED  
.20 MILES AHEAD  
LOCAL TRAFFIC ONLY



M4-10L  
48" x 18"

TYPE III BARRICADE

M

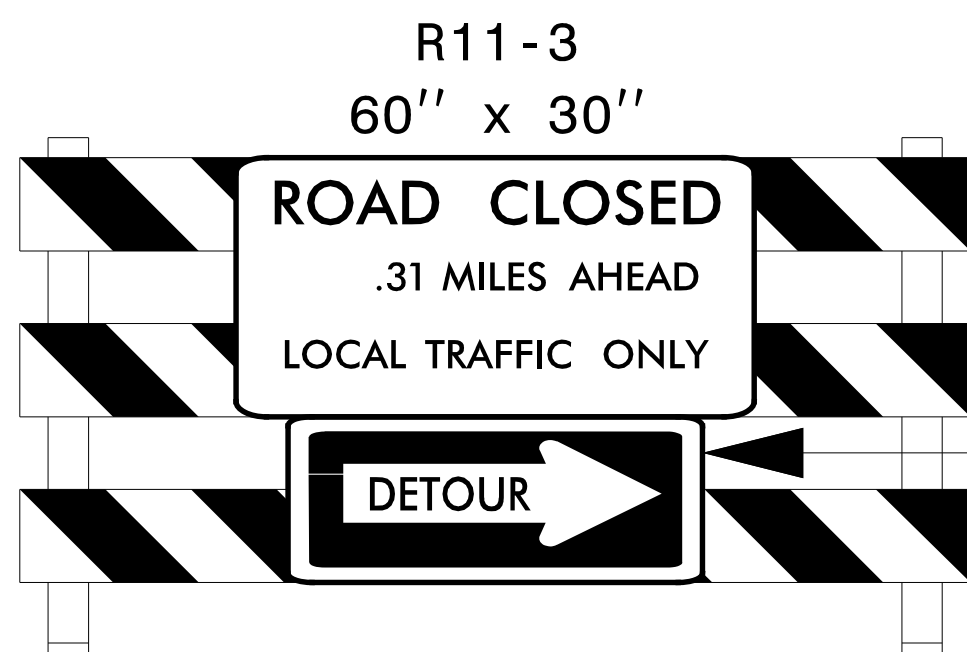


R11-2  
48" x 30"

ROAD  
CLOSED

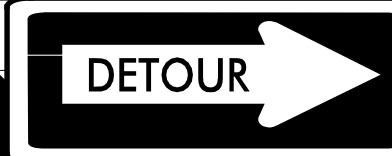
TYPE III BARRICADE (S)

N



R11-3  
60" x 30"

ROAD CLOSED  
.31 MILES AHEAD  
LOCAL TRAFFIC ONLY



M4-10R  
48" x 18"

TYPE III BARRICADE

O

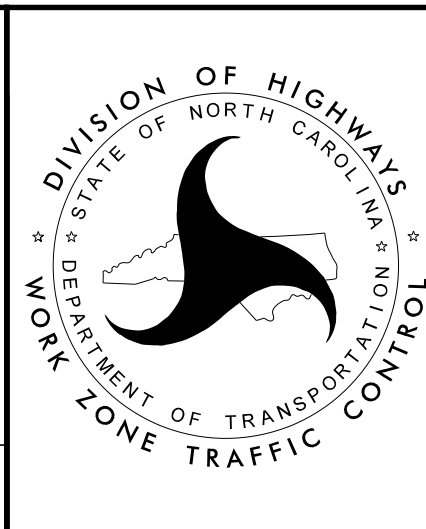
\*NOTE: SEE TMP-2A FOR SPECIAL SIGN DESIGN

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RALEIGH, NC 27612  
(919)571-7111

NC License  
Number F-0159

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DATE: 1/5/2026	
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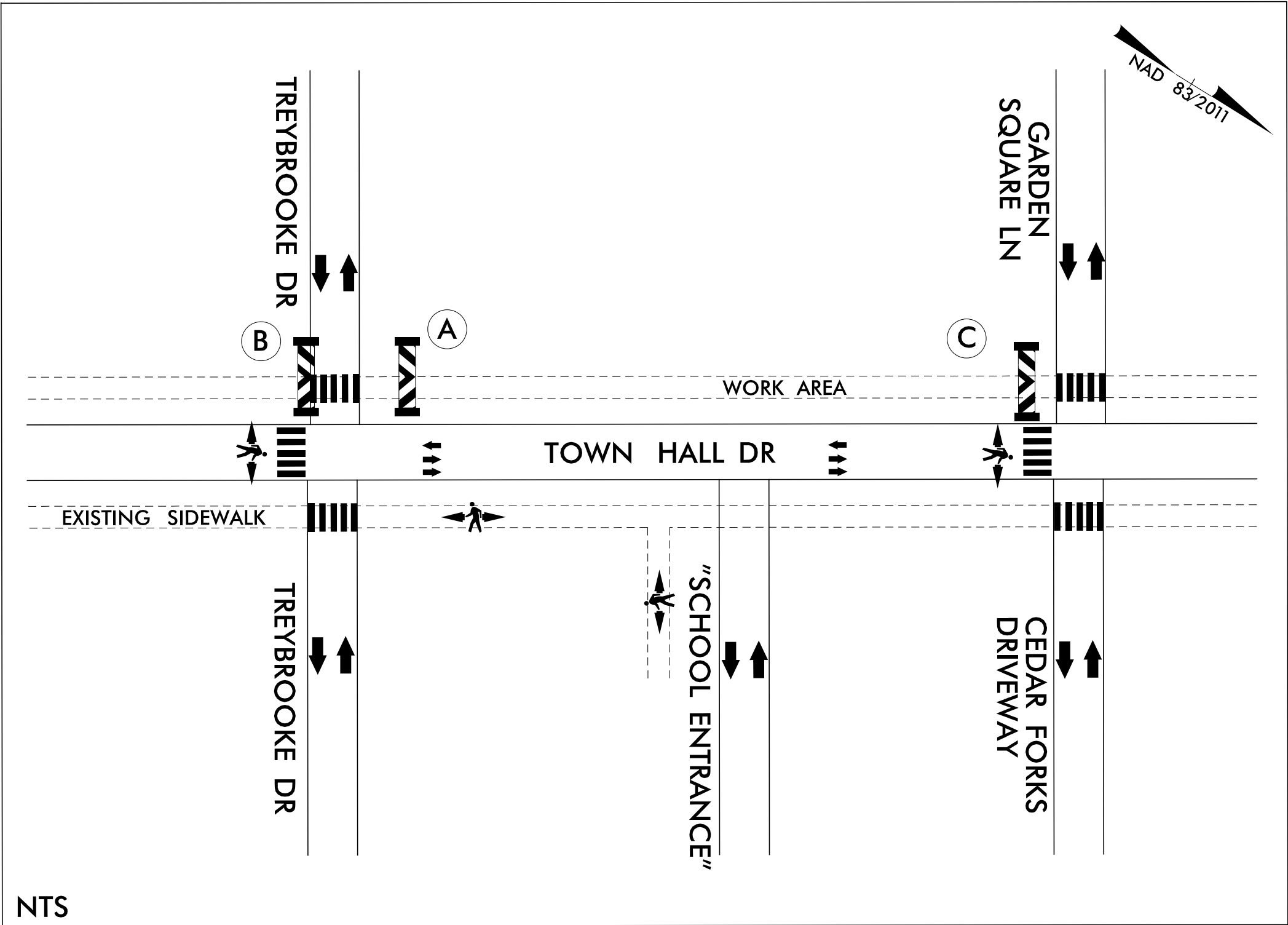


TOWN HALL DRIVE  
OFFSITE DETOUR  
SIGNAGE

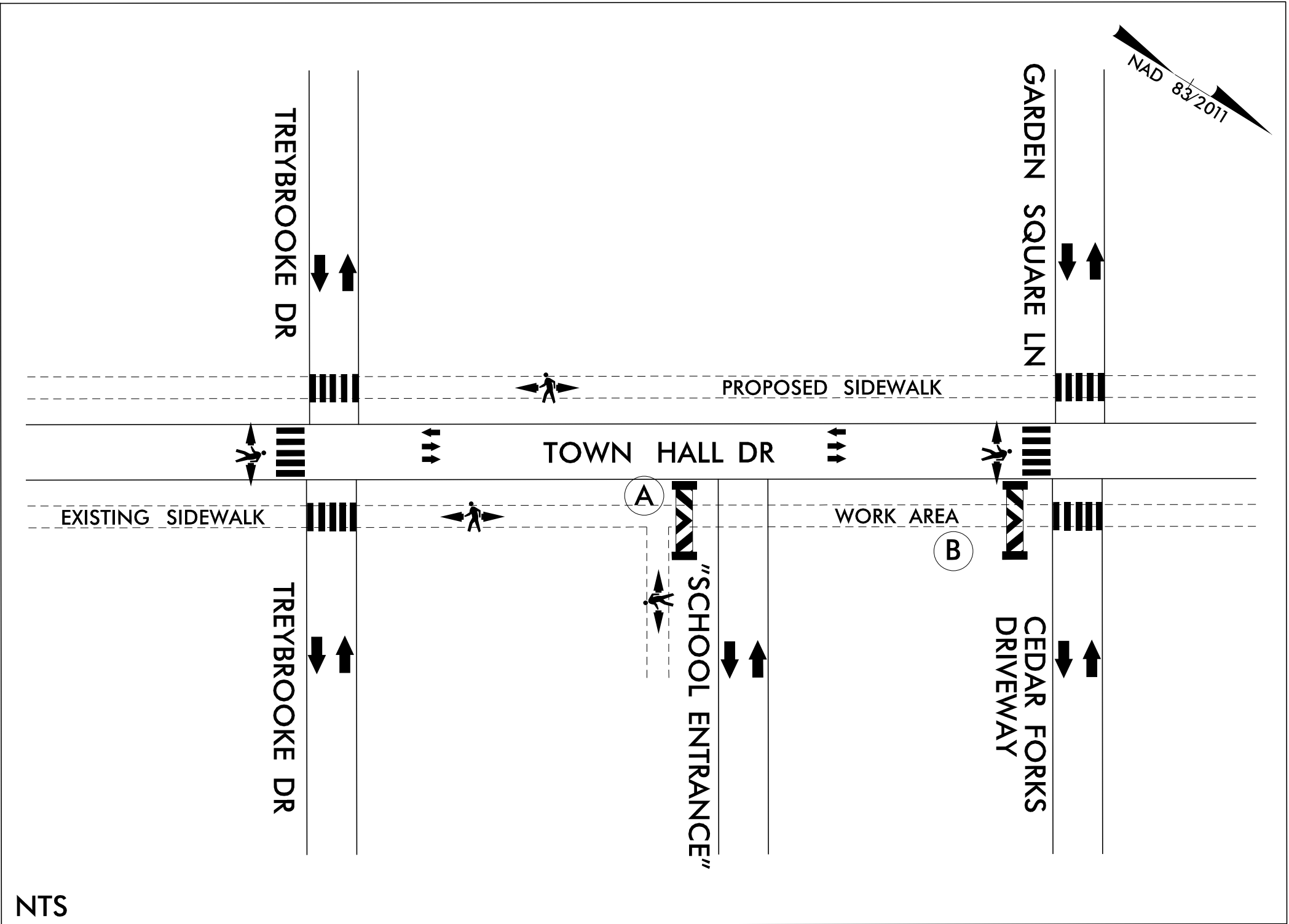


PROJ. REFERENCE NO.	SHEET NO.
HL - 0033	TMP - 13

TOWN HALL DRIVE (-Y1-)  
LEFT SIDE WIDENING  
PEDESTRIAN DETOUR



TOWN HALL DRIVE (-Y1-)  
RIGHT SIDE WIDENING  
PEDESTRIAN DETOUR



SIDEWALK  
CLOSED

R9-9  
24" X 12"

2" MAX

PEDESTRIAN BARRICADE  
\*MUST BE ADA-COMPLIANT\*

A

SIDEWALK CLOSED  
→  
CROSS HERE

R9-11  
24" X 12"

2" MAX

PEDESTRIAN BARRICADE  
\*MUST BE ADA-COMPLIANT\*

B

SIDEWALK CLOSED  
←  
CROSS HERE

R9-11a  
24" X 12"

2" MAX

PEDESTRIAN BARRICADE  
\*MUST BE ADA-COMPLIANT\*

C

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RALEIGH, NC 27612  
(919)571-7111

NC License  
Number F-0159

APPROVED: *Jason Talley*  
DATE: 1/5/2026

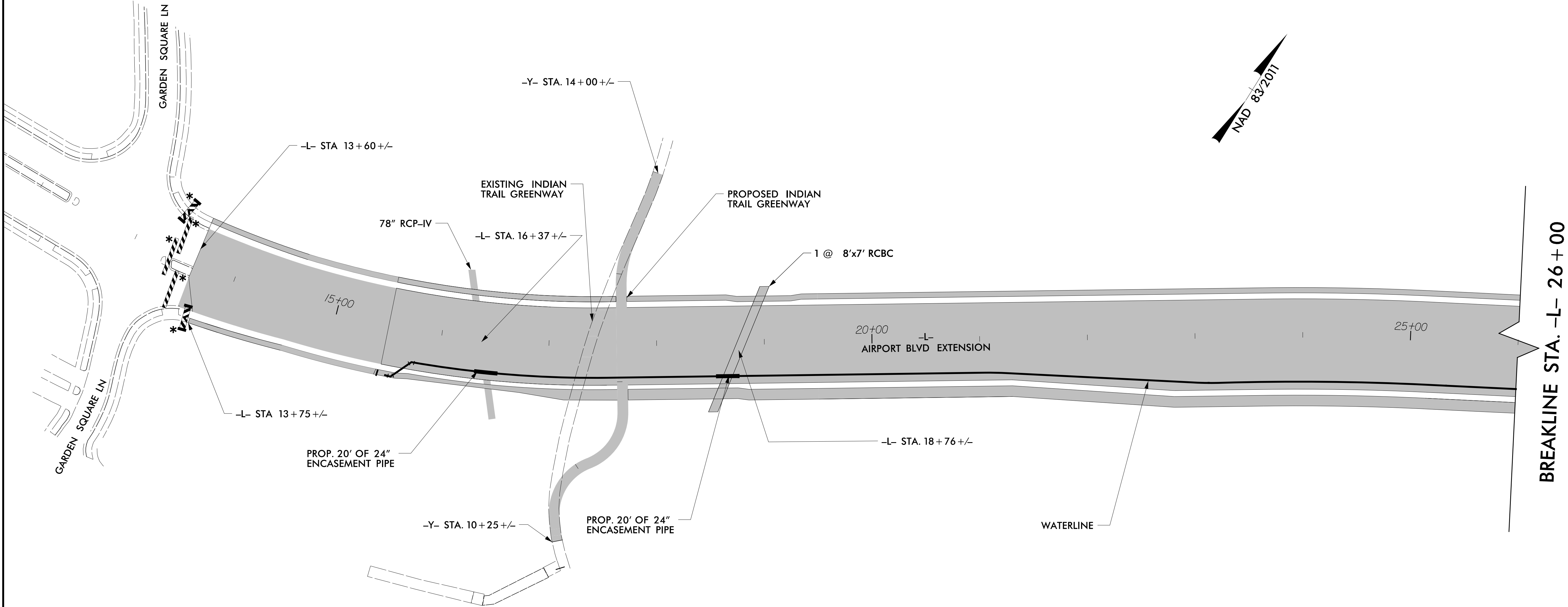
SEAL  
029473  
ENGINEER  
JASON M. TALLEY

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

TOWN HALL  
PEDESTRIAN  
DETOUR

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User: jason.talley

PROJ. REFERENCE NO.	SHEET NO.
HL-0033	TMP-14

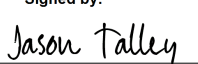


NOTES:  
\*SEE DETOUR FOR ADDITIONAL SIGNING/DEVICES

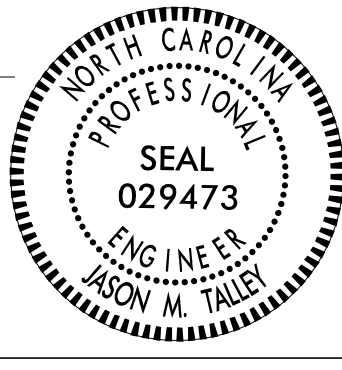


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RALEIGH, NC 27612  
(919) 571-7111

NC License  
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552A970A2E1F41B...

DATE: 1/5/2026



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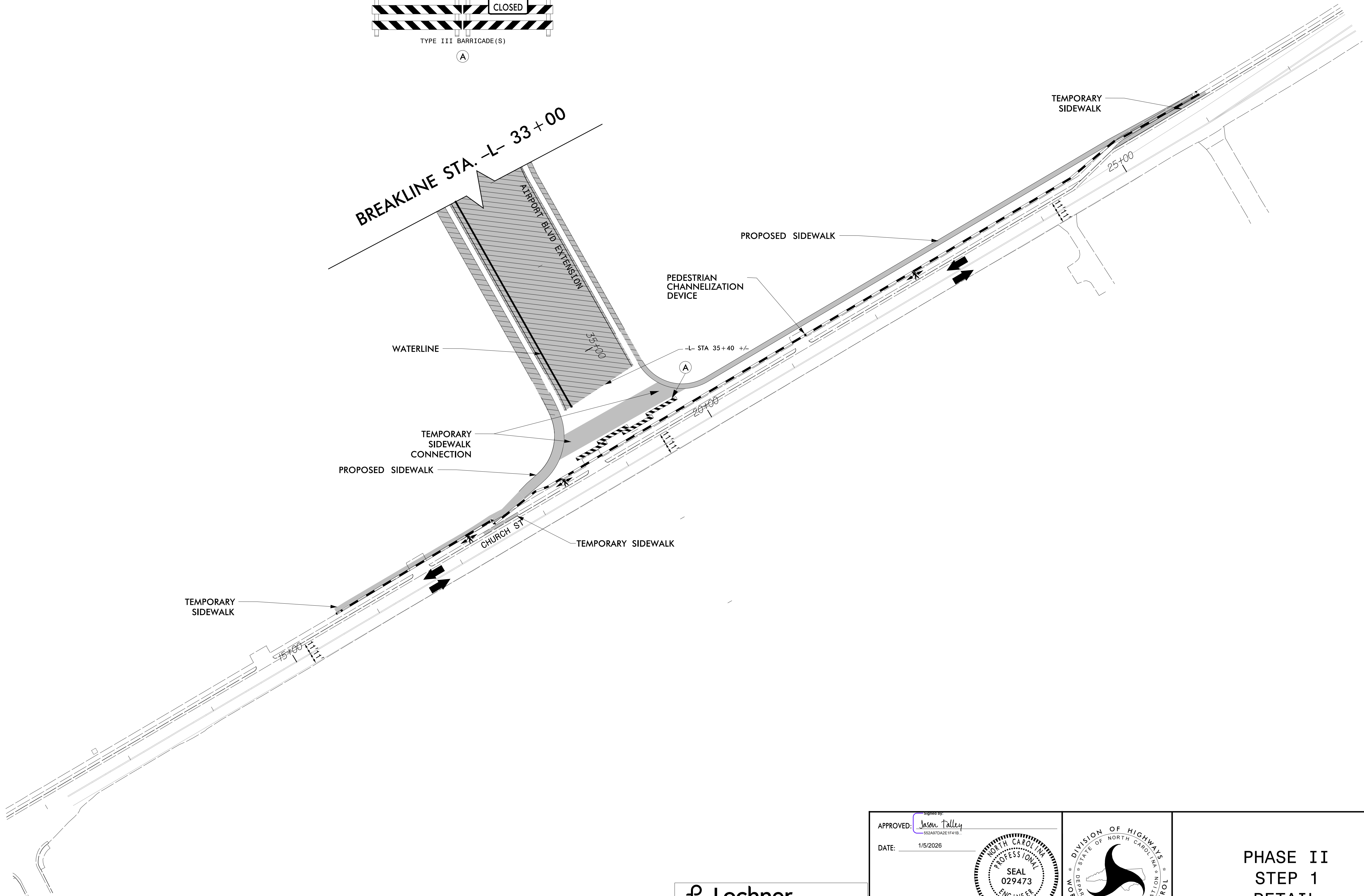
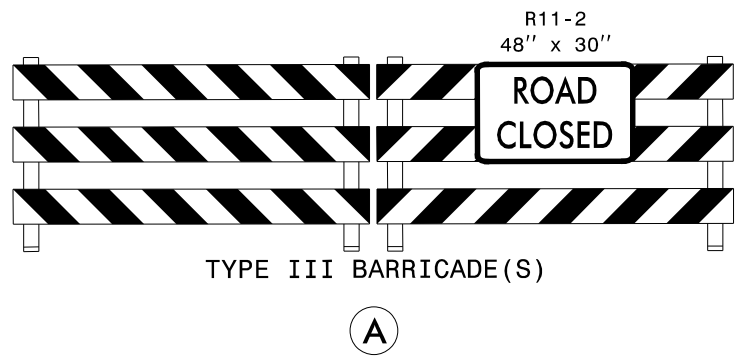
PHASE I DETAIL

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User: Jason.Talley



PROJ. REFERENCE NO.	SHEET NO.
HL-0033	TMP-15

NAD 83/2011

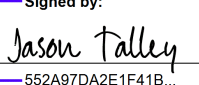



1/5/2026  
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User: Jason Talley

**Lochner**

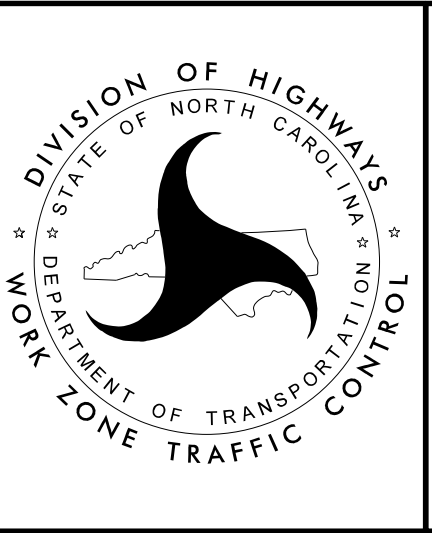
H. W. LOCHNER, INC.  
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RALEIGH, NC 27612  
(919) 571-7111

NC License  
Number F-0159

APPROVED:   
DATE: 1/5/2026



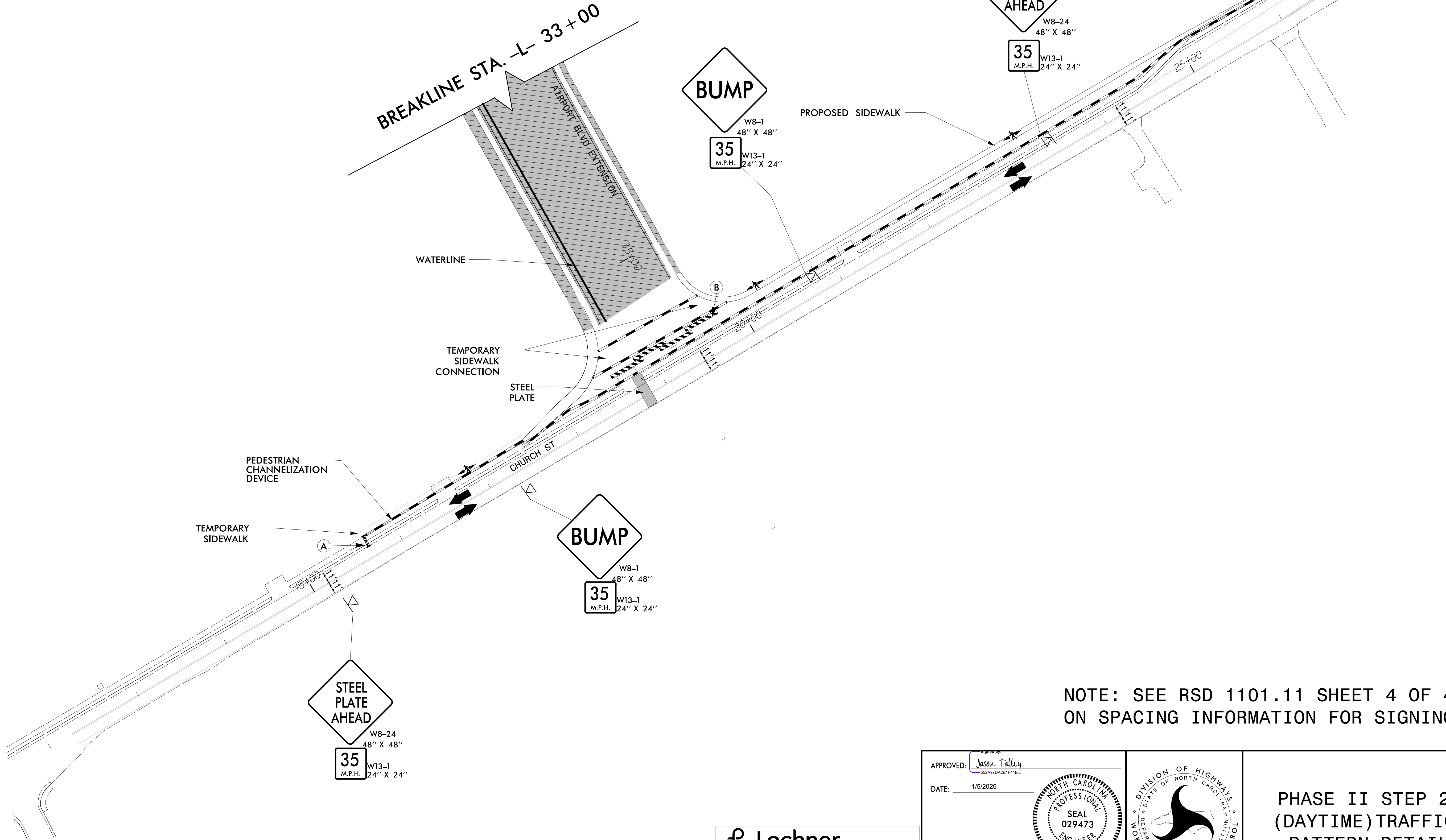
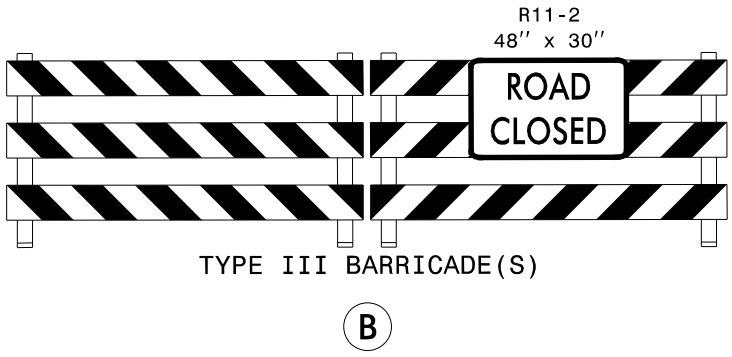
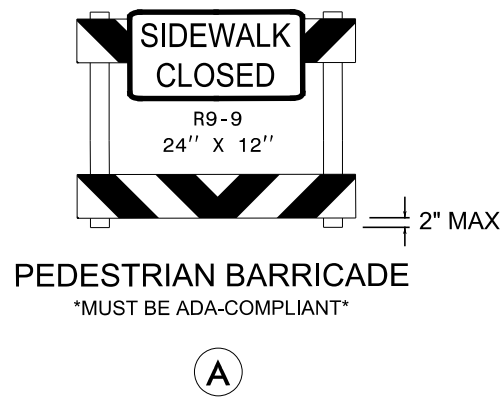
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PHASE II  
STEP 1  
DETAIL

PROJ. REFERENCE NO.	SHEET NO.
HL-0033	TMP-16

NAD 83/2011



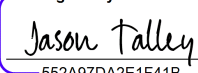
NOTE: SEE RSD 1101.11 SHEET 4 OF 4  
ON SPACING INFORMATION FOR SIGNING

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User: Jason.Talley



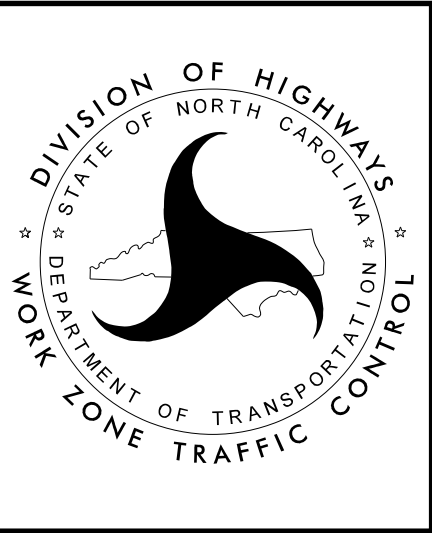
H. W. LOCHNER, INC.  
2840 PLAZA PLACE, SUITE 202  
RALEIGH, NC 27612  
(919) 571-7111

NC License  
Number F-0159

APPROVED:   
DATE: 1/5/2026

NORTH CAROLINA  
PROFESSIONAL  
SEAL  
029473  
ENGINEER  
JASON M. TALLEY

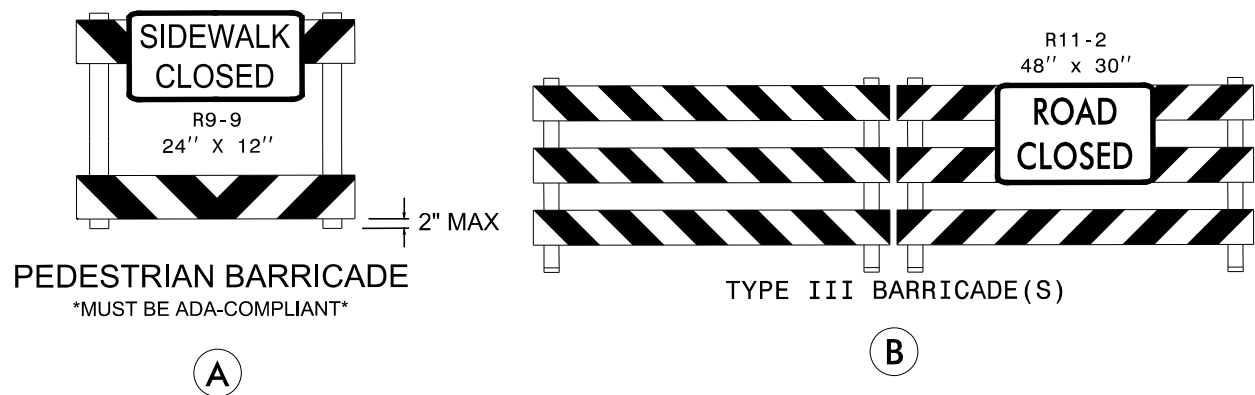
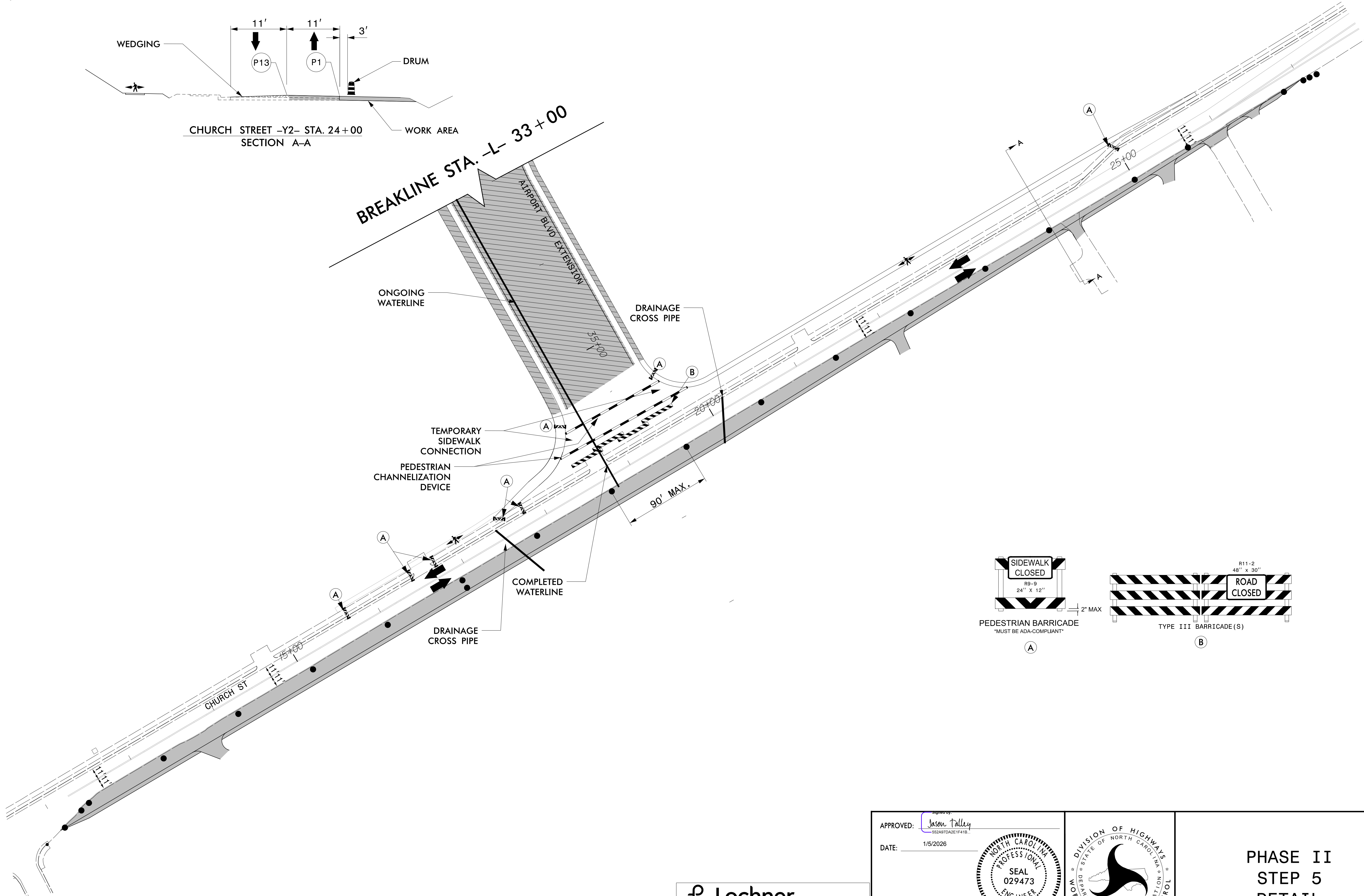
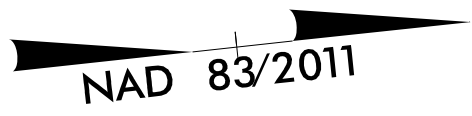
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PHASE II STEP 2  
(DAYTIME) TRAFFIC  
PATTERN DETAIL



PROJ. REFERENCE NO.	SHEET NO.
HL-0033	TMP-17

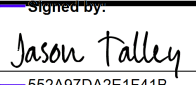


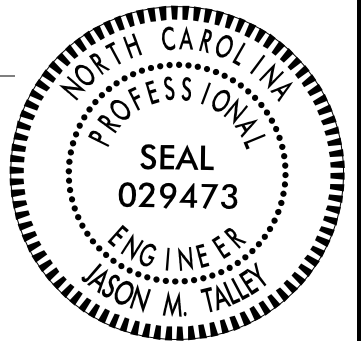
NOTES:  
CONTRACTOR CAN ELECT WHEN TO MOVE PEDESTRIAN CHANNELIZATION DEVICE FOR TEMPORARY SIDEWALK CONNECTION

**Lochner**

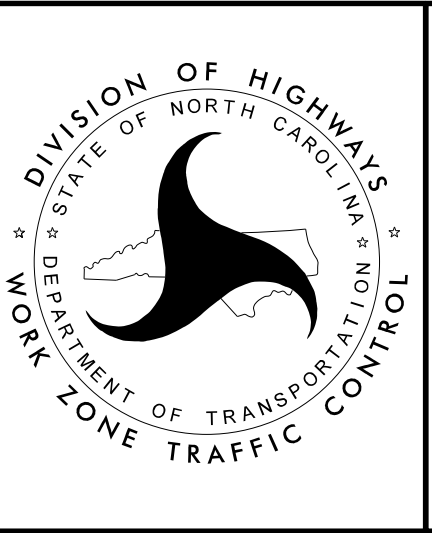
H. W. LOCHNER, INC.  
2840 PLAZA PLACE, SUITE 202  
RALEIGH, NC 27612  
(919) 571-7111

NC License  
Number F-0159

APPROVED:   
DATE: 1/5/2026



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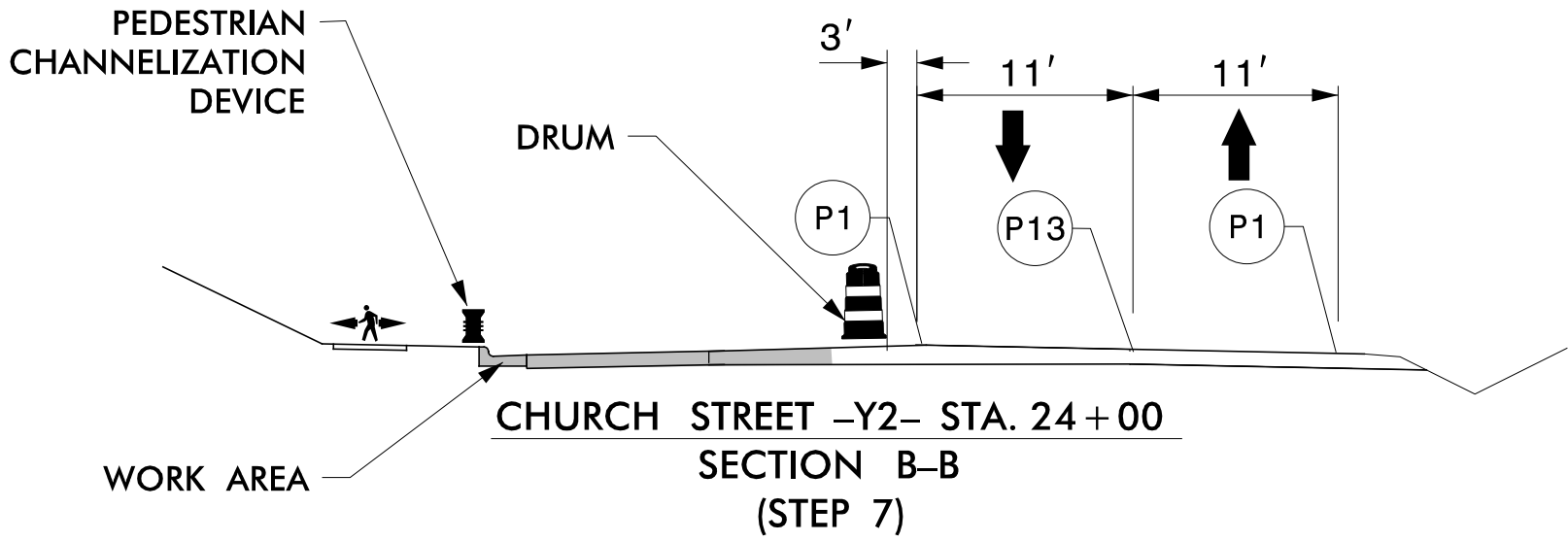


PHASE II  
STEP 5  
DETAIL

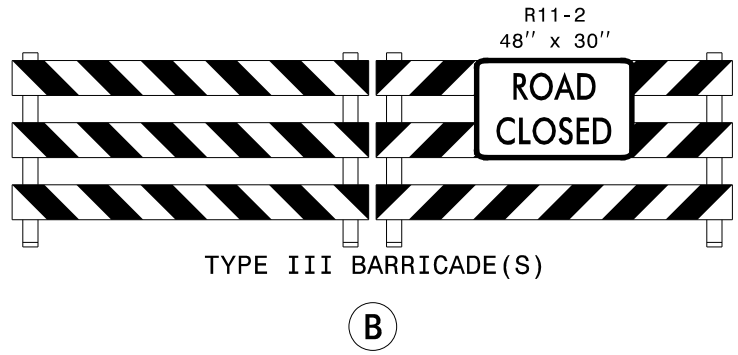
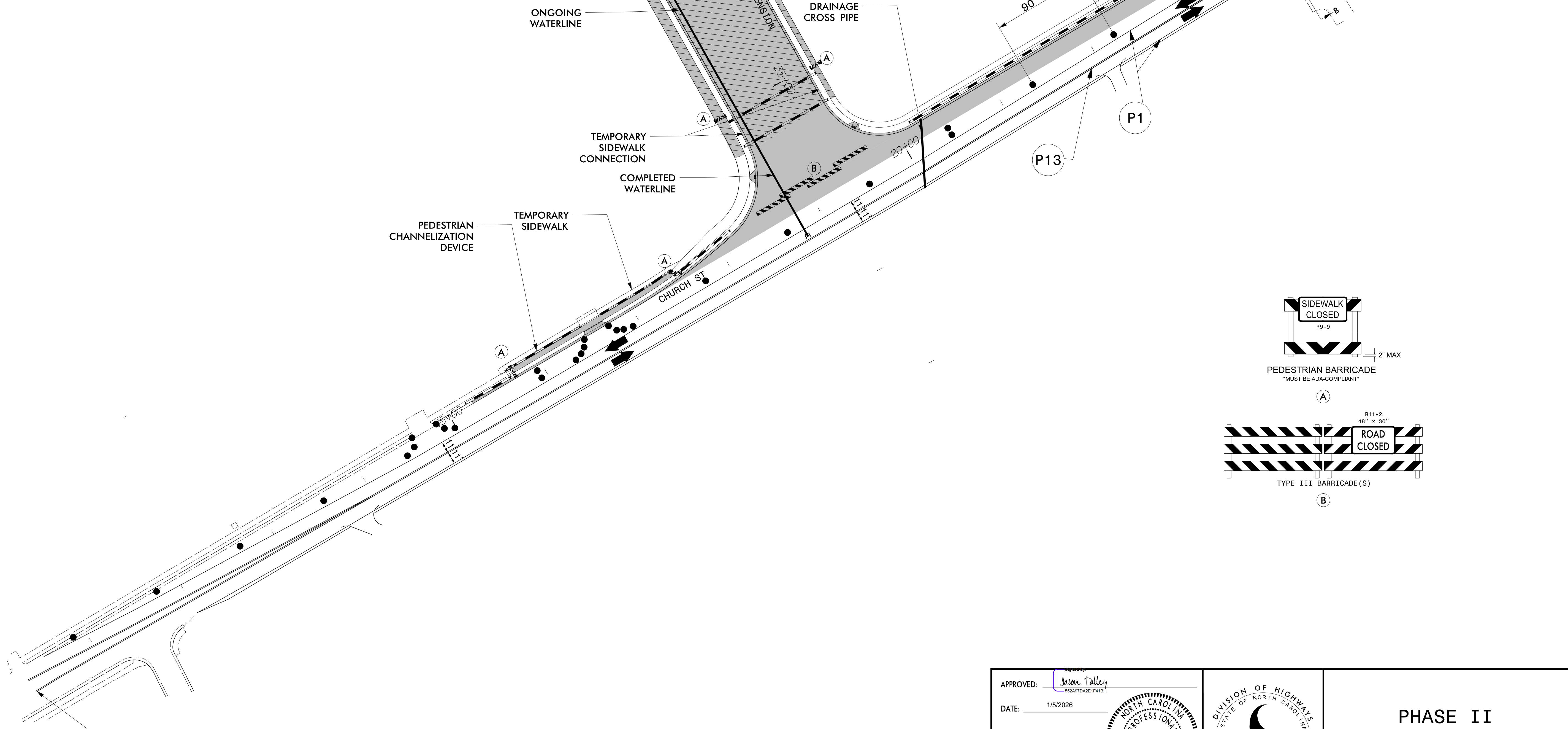
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User: Jason.Talley

PROJ. REFERENCE NO.	SHEET NO.
HL-0033	TMP-18

NAD 83/2011



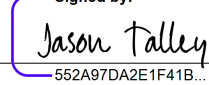
BREAKLINE STA. -L- 33+00




TIE TO EXISTING PAVEMENT

NOTES:  
CONTRACTOR CAN ELECT WHEN TO MOVE PEDESTRIAN CHANNELIZATION DEVICE FOR TEMPORARY SIDEWALK CONNECTION

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DATE: 1/5/2026



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UNLESS ALL SIGNATURES COMPLETED**

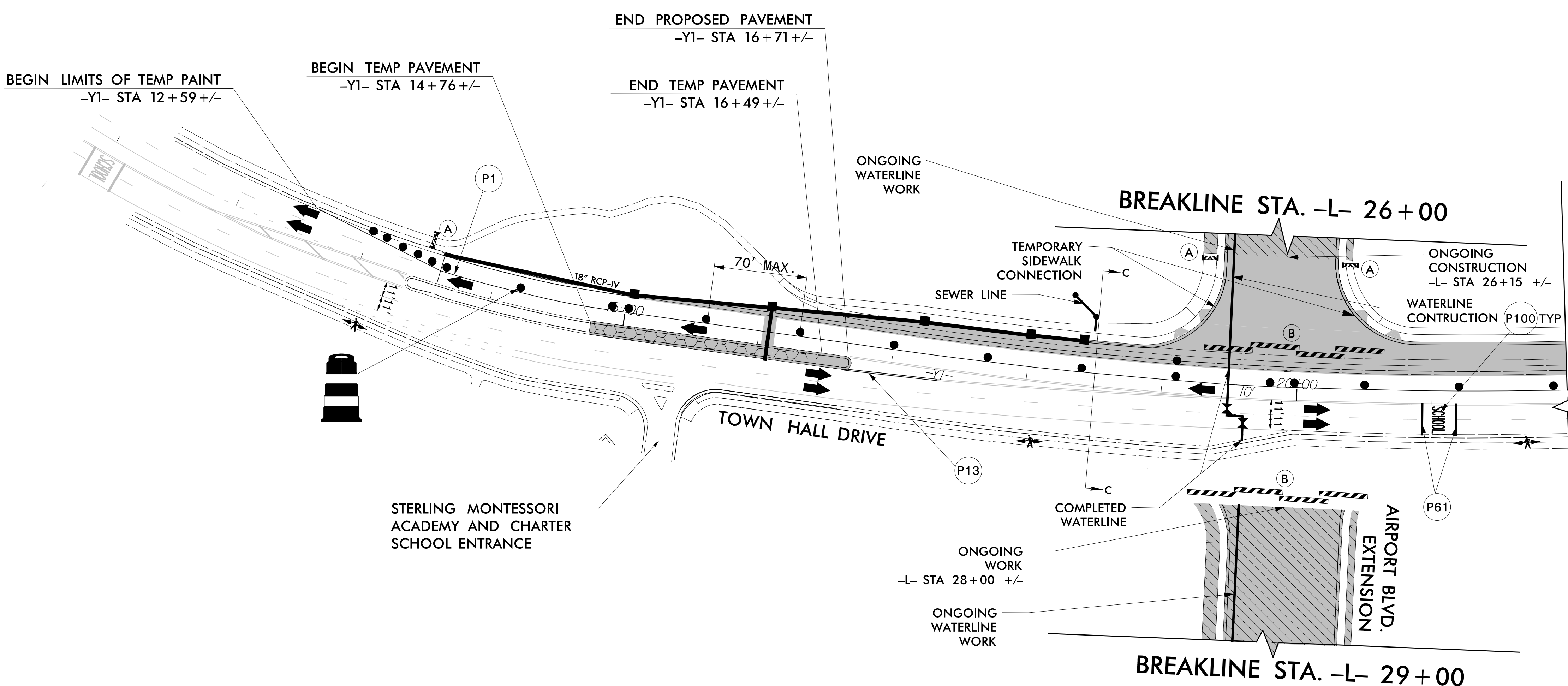
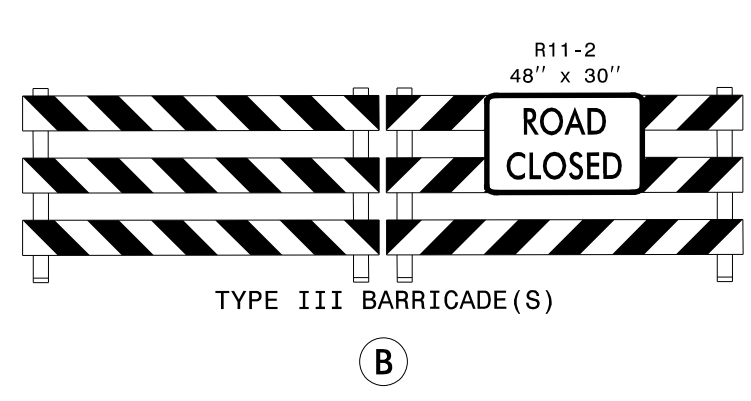
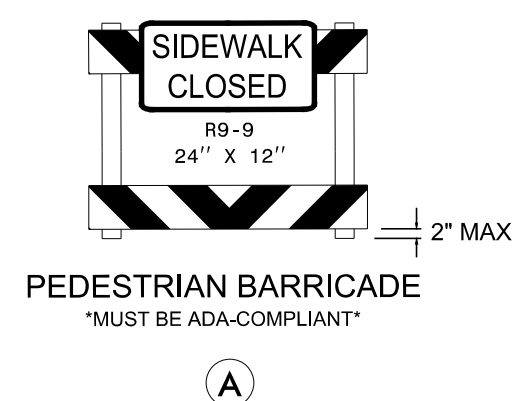
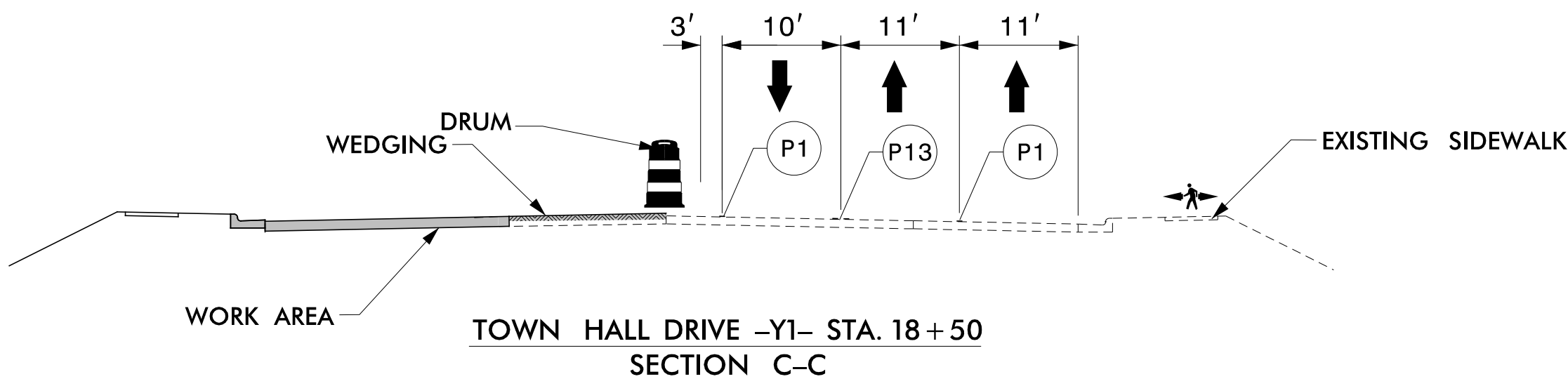
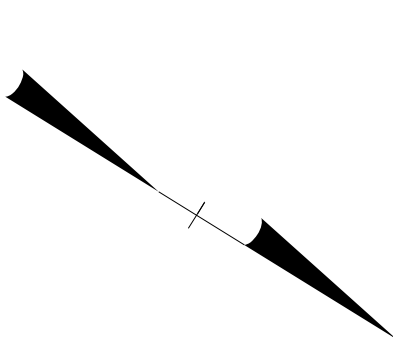


**PHASE II  
STEP 7  
DETAIL**

I:\5\2026 R:\Traffic\TrafficControl\Phase 2\HL-0033.WZTC\_TMP\_PHASE 2 STEP 6.dgn  
User: jason.talley



PROJ. REFERENCE NO.	SHEET NO.
HL-0033	TMP-19



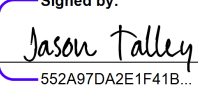
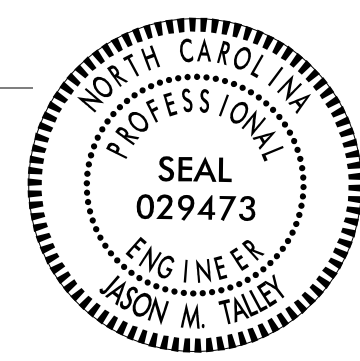

MATCHLINE STA. -Y1- 22 + 00  
SEE SHEET TMP-20

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User:jason.talley

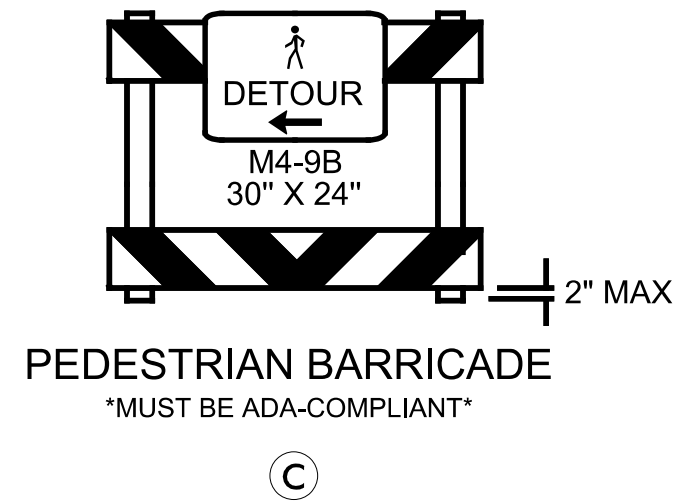
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NC License  
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PROJ. REFERENCE NO.	SHEET NO.
HL - 0033	TMP - 20



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NEW TRAFFIC PATTERN	STARTING (DATE) (DATE)

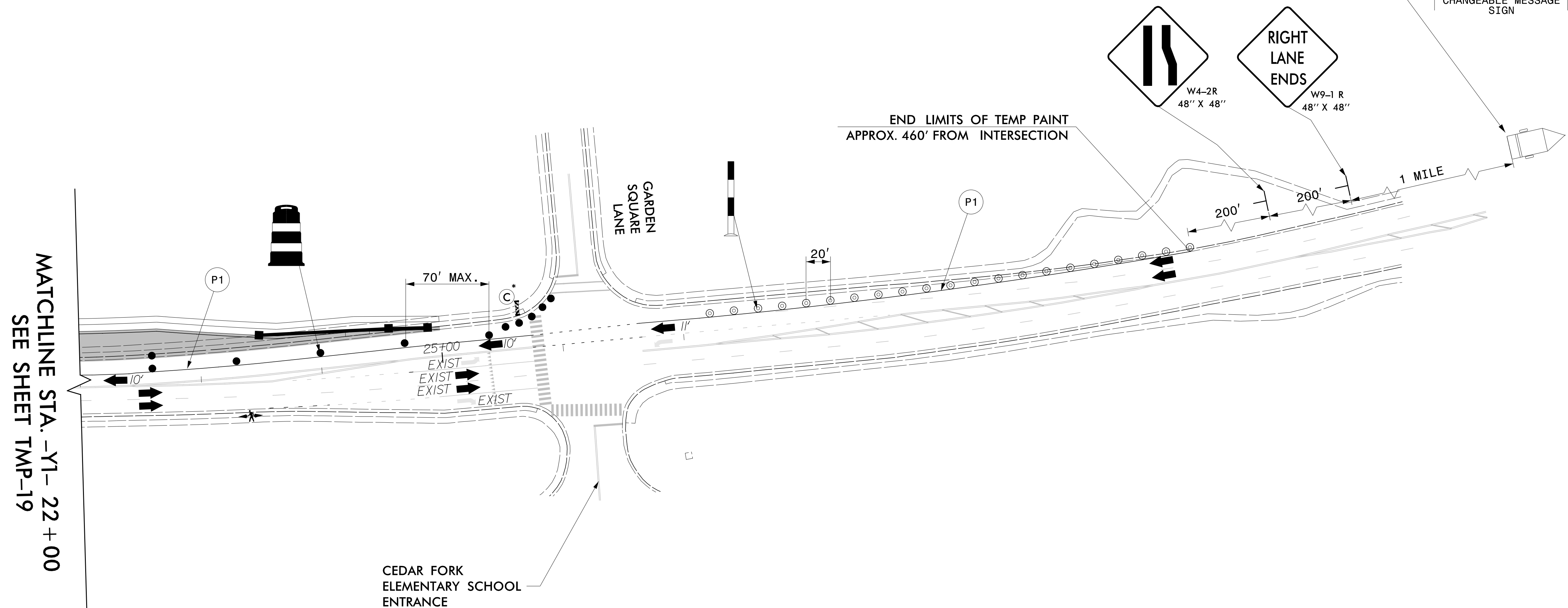
CHANGEABLE MESSAGE  
SIGN

MESSAGE BOARD 14 DAYS  
PRIOR TO  
3-LN PATTERN

MESSAGE NO. 1	MESSAGE NO. 2
RIGHT LANE CLOSED	MERGE LEFT

CHANGEABLE MESSAGE  
SIGN

MESSAGE BOARD FOR  
14 DAYS AFTER  
3-LN PATTERN  
INSTALLED



## NOTES

\*SEE TMP-13 FOR PEDESTRIAN DETOUR



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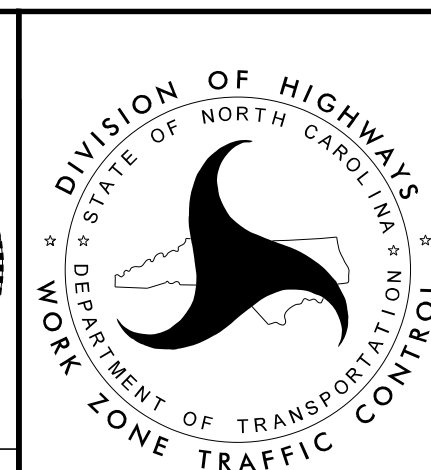
NC License  
Number F-0159

APPROVED: Jason Talle  
552A97DA2E1F41B

DATE: 1/5/2026



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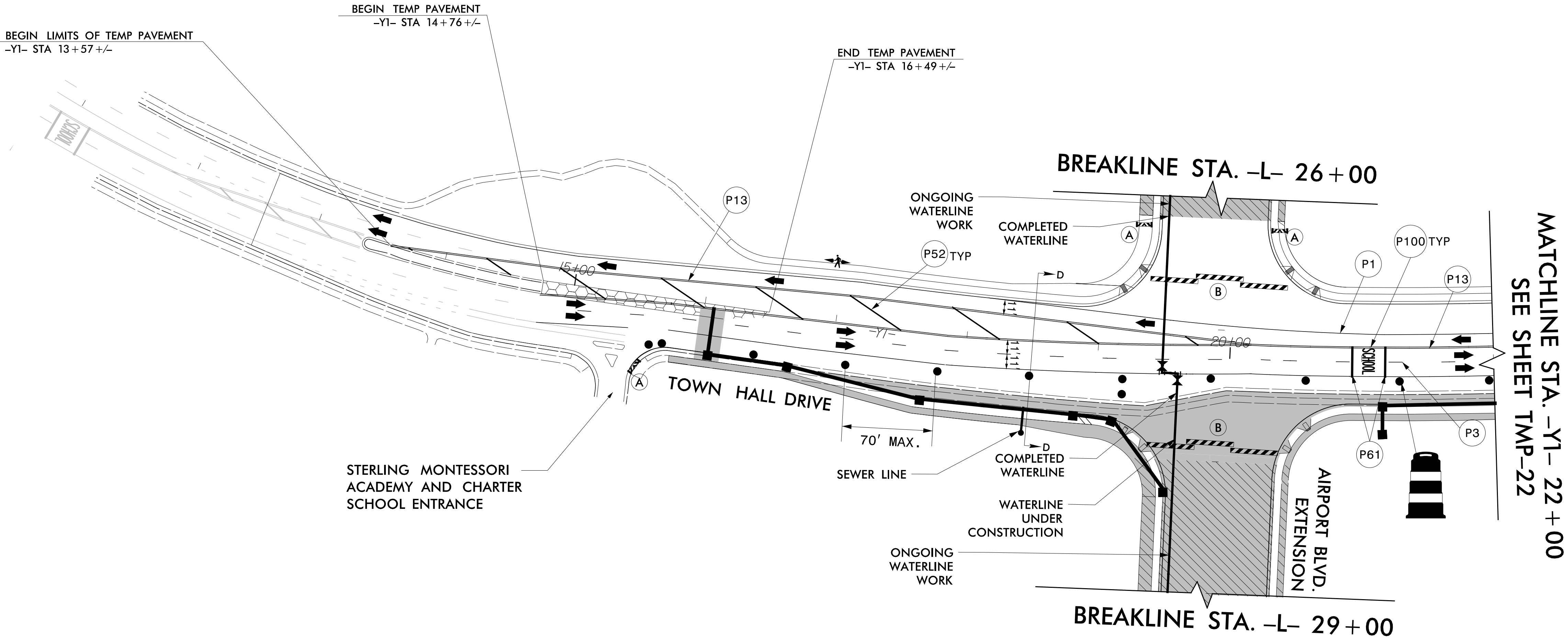
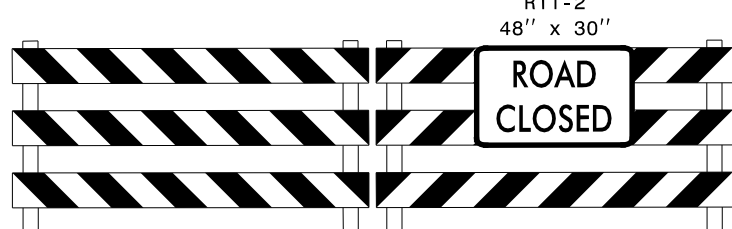
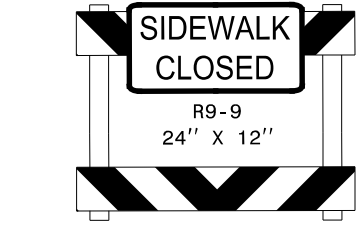
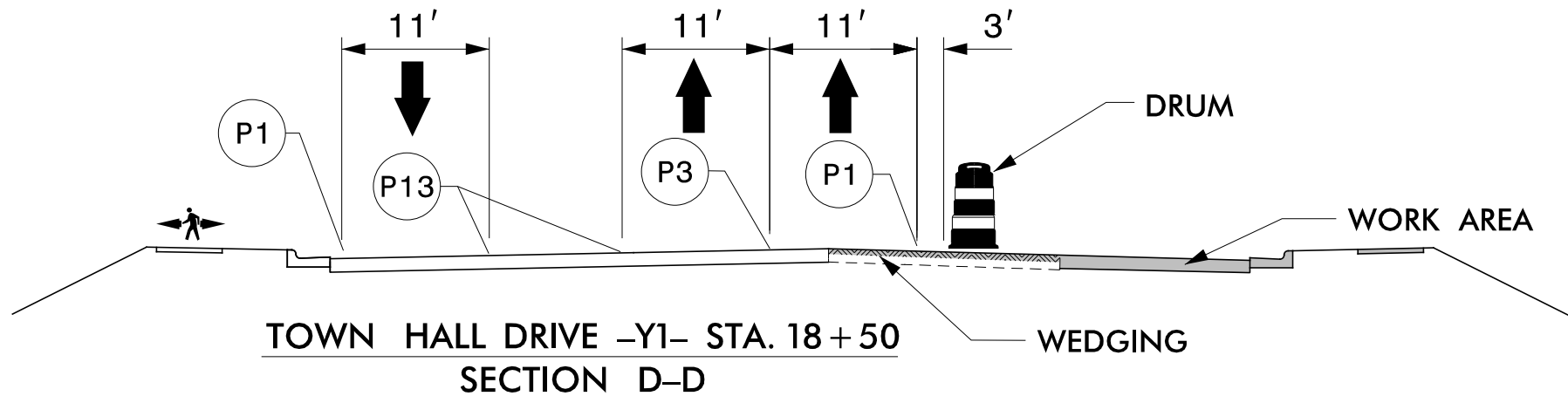
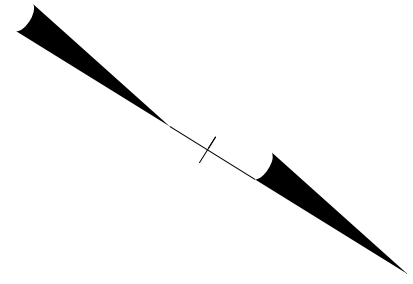


PHASE III  
STEP 6  
DETAIL

1/5/2026  
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User: Jason.Talley



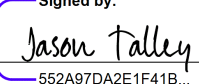
PROJ. REFERENCE NO.	SHEET NO.
HL-0033	TMP-21

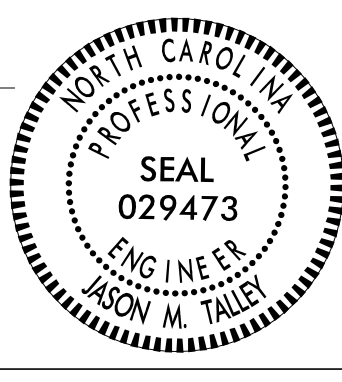


MATCHLINE STA. -Y1- 22+00  
SEE SHEET TMP-22

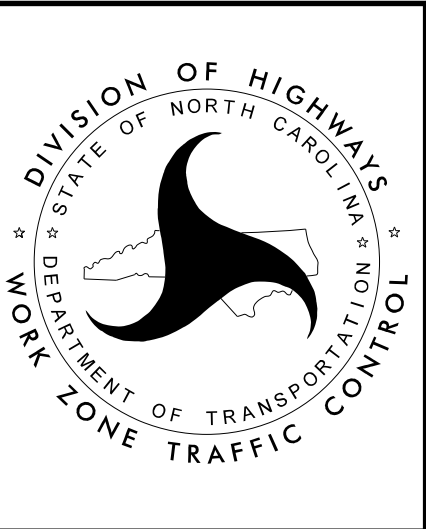
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User: Jason Talley

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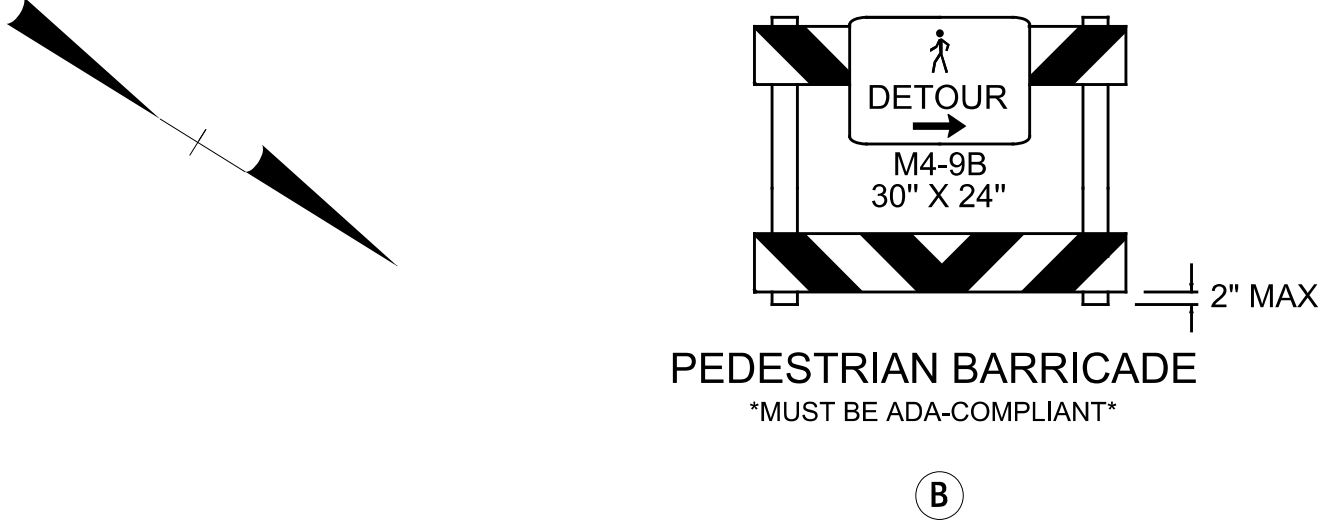


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**PHASE III  
STEP 8  
DETAIL**

PROJ. REFERENCE NO.	SHEET NO.
HL - 0033	TMP - 22



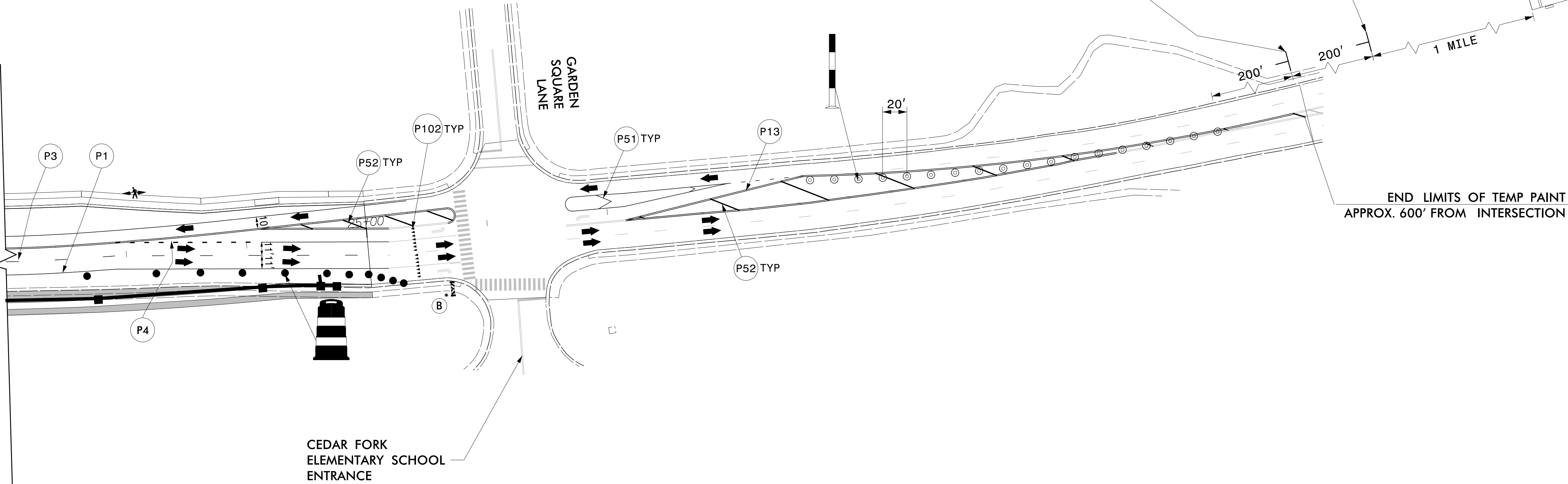
MESSAGE NO. 1	MESSAGE NO. 2
NEW TRAFFIC PATTERN	STARTING (DATE) (DATE)
CHANGEABLE MESSAGE SIGN	

MESSAGE BOARD  
14 DAYS PRIOR TO  
3-LN PATTERN

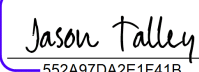
MESSAGE NO. 1	MESSAGE NO. 2
LEFT LANE CLOSED	MERGE RIGHT
CHANGEABLE MESSAGE SIGN	

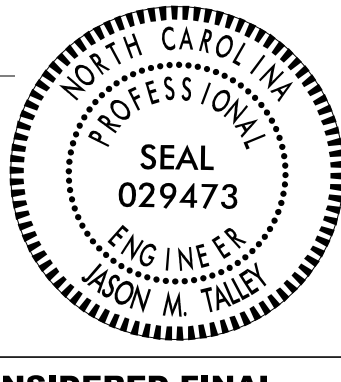
MESSAGE BOARD FOR  
14 DAYS AFTER  
3-LN PATTERN  
INSTALLED

MATCHLINE STA. -Y1- 22+00  
SEE SHEET TMP-21

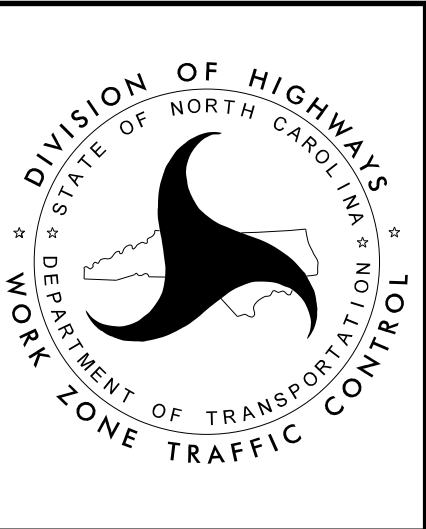


\*NOTE: SEE TMP-13 FOR PEDESTRIAN DETOUR

APPROVED:   
DATE: 1/5/2026



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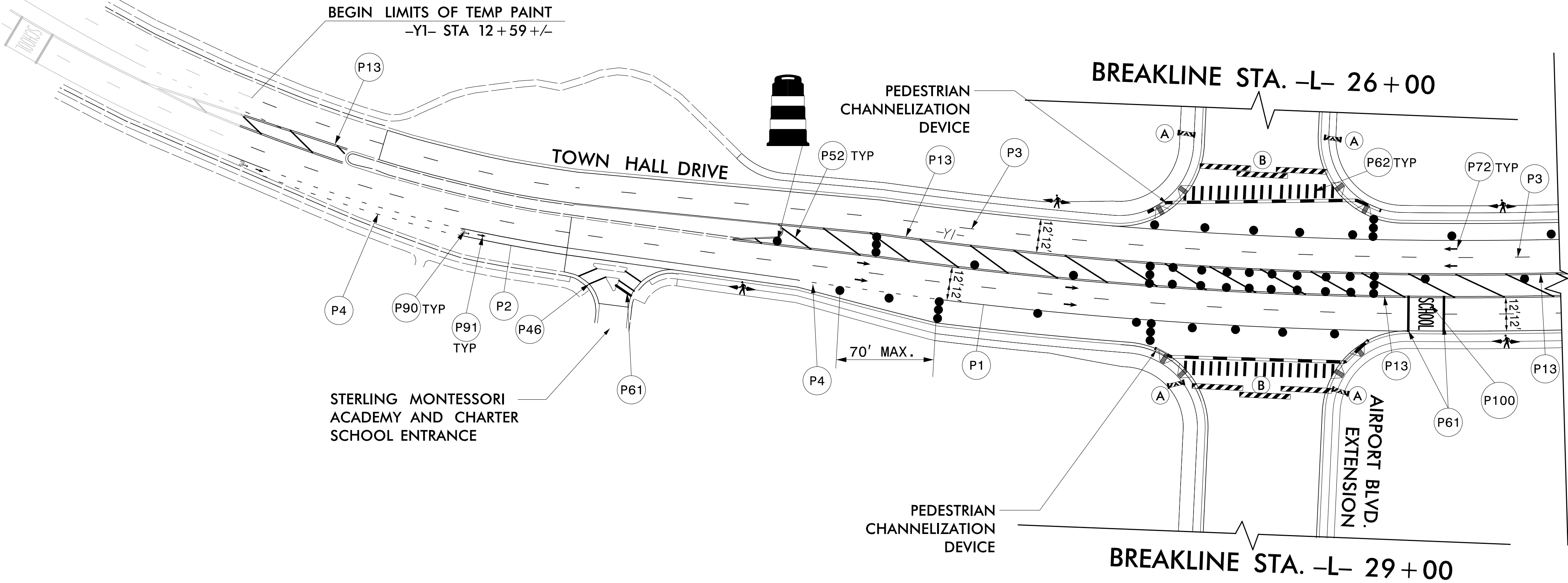
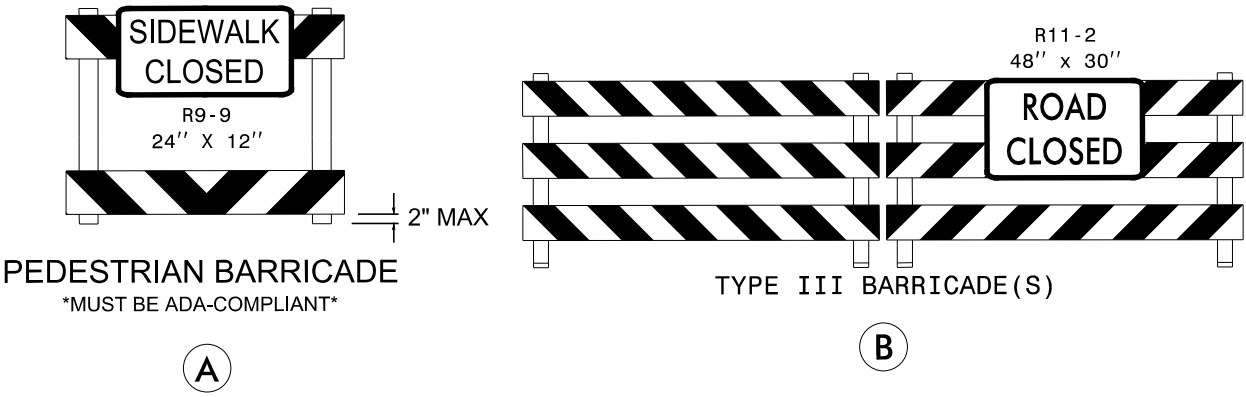
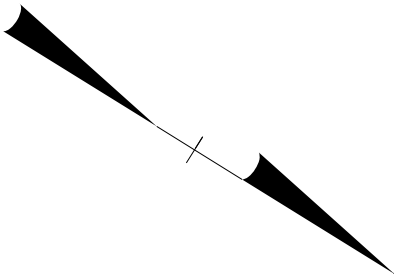


PHASE III  
STEP 8  
DETAIL

  
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PROJ. REFERENCE NO.	SHEET NO.
HL-0033	TMP-23




MATCHLINE STA. -Y1- 22 + 00  
SEE SHEET TMP-24

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User: Jason Talley

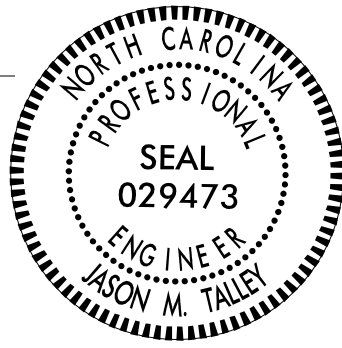
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(919)571-7111

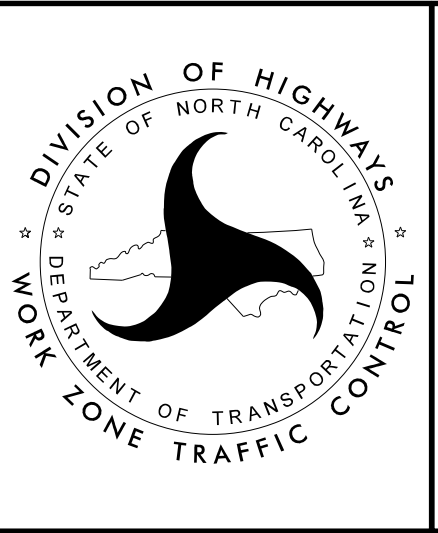
NC License  
Number F-0159

APPROVED:   
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DATE: 1/5/2026



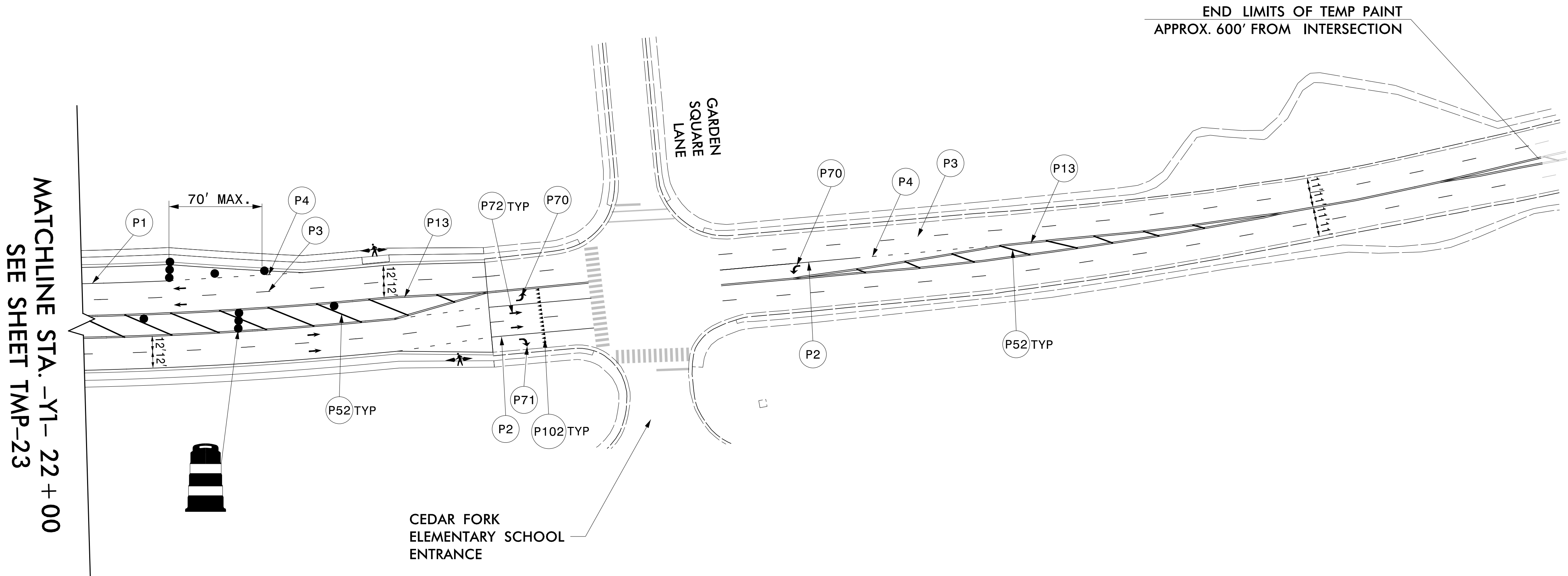
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PHASE III  
STEP 9  
DETAIL



PROJ. REFERENCE NO.	SHEET NO.
HL-0033	TMP-24

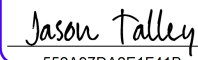


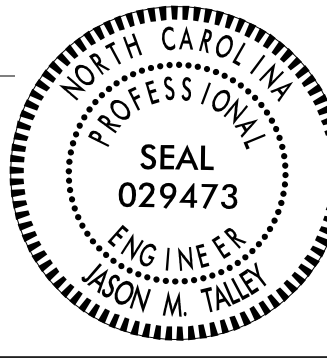
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User: jason.talley

**Lochner**

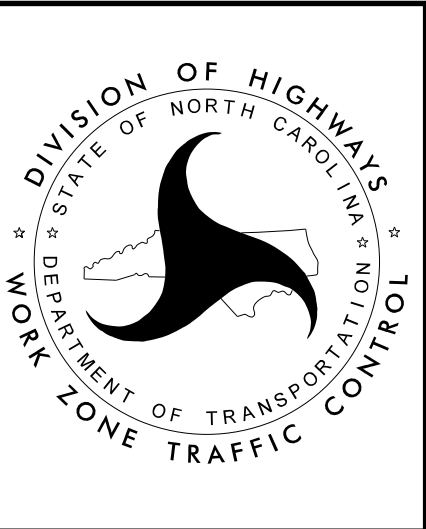
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PHASE III  
STEP 9  
DETAIL