

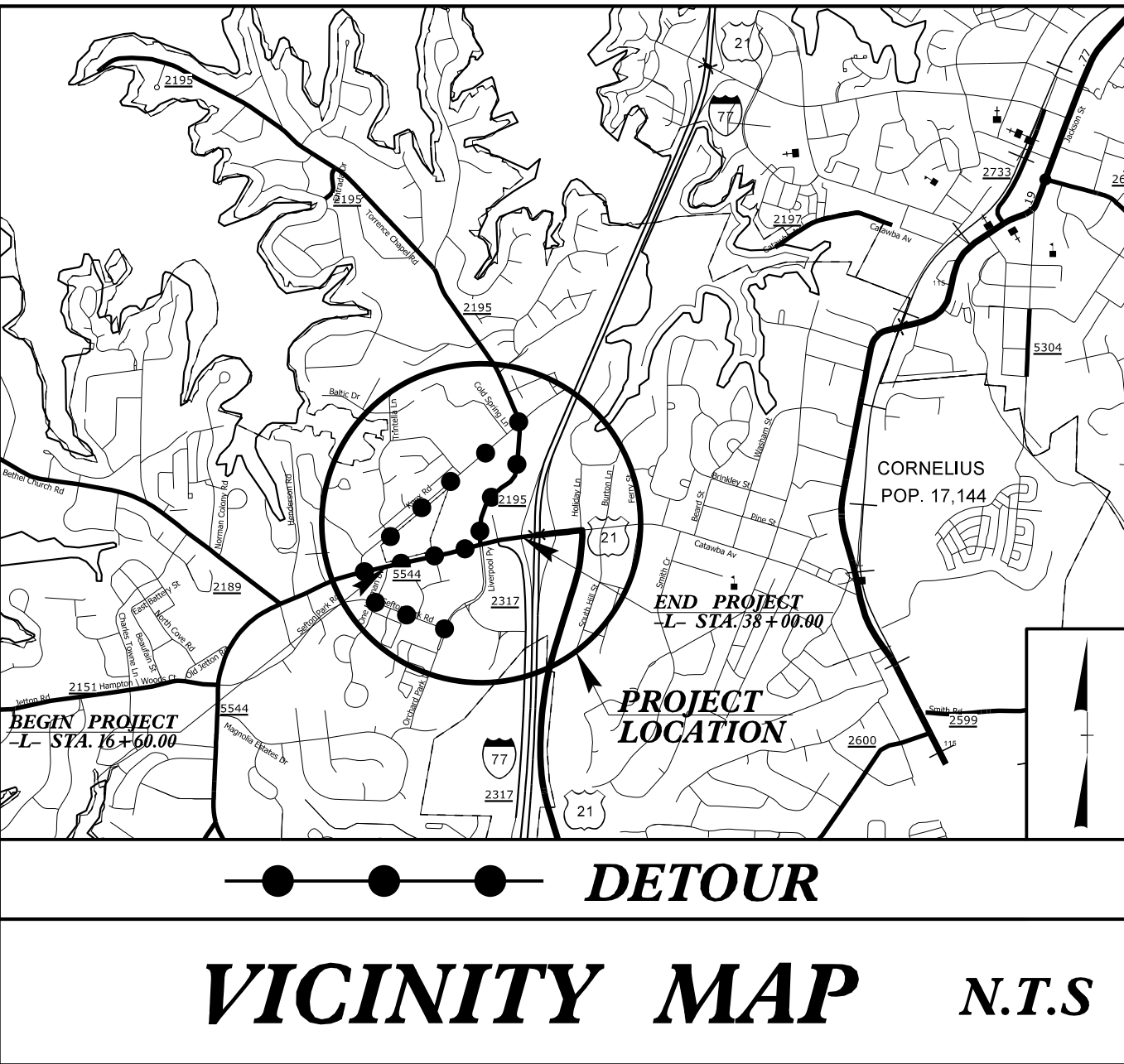
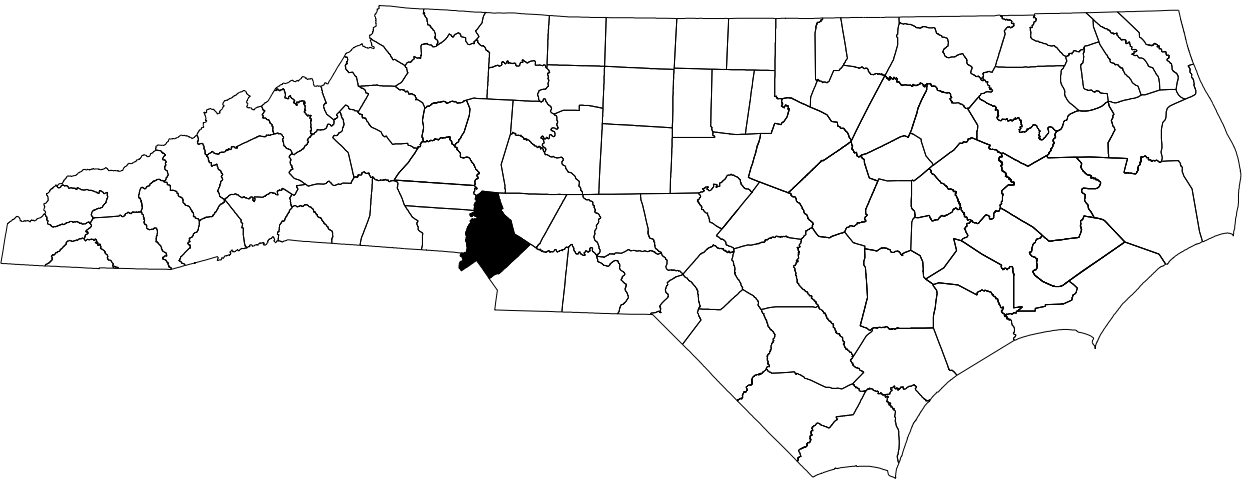
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

MECKLENBURG COUNTY

LOCATION: INTERSECTION IMPROVEMENTS SR 2195 (TORRENCE CHAPEL ROAD) AND SR 5544 (WEST CATAWBA AVENUE) IN CORNELIUS

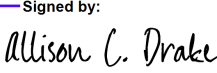
TYPE OF WORK: GRADING, DRAINAGE, PAVING, SIGNALS, AND RETAINING WALLS



INDEX OF SHEETS

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| TMP-17-18 | TEMPORARY TRAFFIC CONTROL PHASE V STEP 1 DETAILS                           |
| TMP-19-20 | TEMPORARY TRAFFIC CONTROL PHASE V STEP 2 DETAILS                           |

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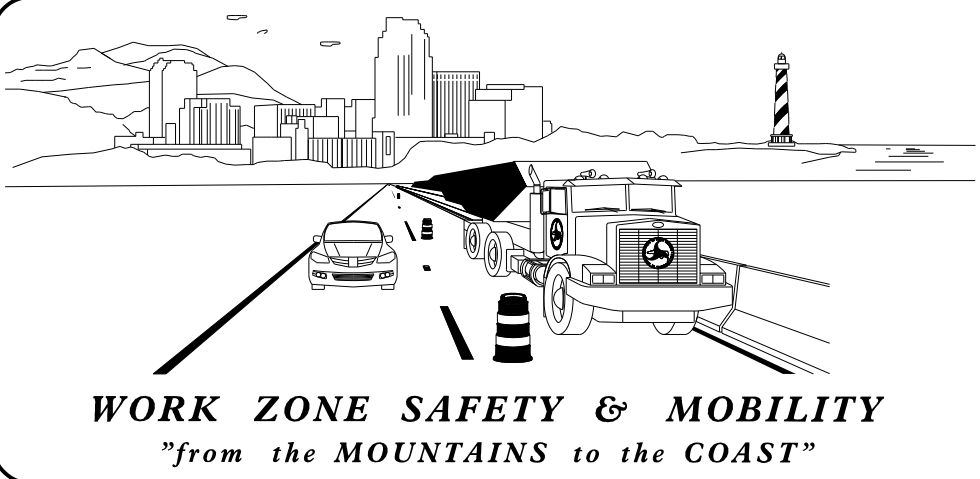
APPROVED:   
DATE: 9/11/2025

**RS&H**  
NC FIRM LICENSE No: F-0493  
1520 SOUTH BOULEVARD, SUITE 200  
CHARLOTTE, NC 28203



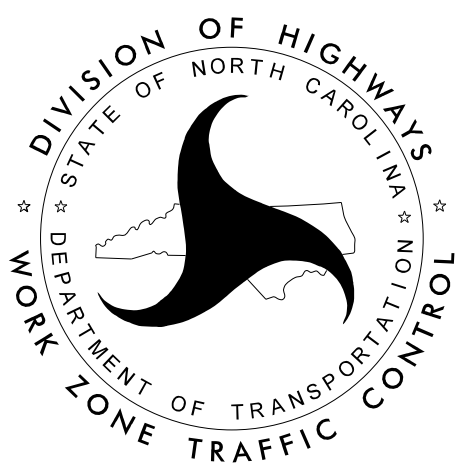
U-5906

TIP PROJECT:



PLANS PREPARED BY:  
ALLISON C. DRAKE, P.E.  
PROJECT ENGINEER  
NIKI AVGERINOS, P.E.  
PROJECT DESIGN ENGINEER

NCDOT CONTACTS:  
RANDY W. BOWERS  
PROJECT MANAGER  
LEE AINSWORTH, P.E.  
DIVISION 10 PROJECT  
DEVELOPMENT ENGINEER



# 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:

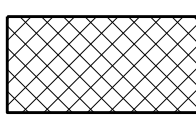
| STD. NO. | TITLE                                                    |
|----------|----------------------------------------------------------|
| 1101.01  | WORK ZONE ADVANCE WARNING SIGNS                          |
| 1101.02  | TEMPORARY LANE CLOSURES                                  |
| 1101.03  | TEMPORARY ROAD CLOSURES                                  |
| 1101.11  | TRAFFIC CONTROL DESIGN TABLES                            |
| 1110.01  | STATIONARY WORK ZONE SIGNS                               |
| 1110.02  | PORTABLE WORK ZONE SIGNS                                 |
| 1130.01  | DRUMS                                                    |
| 1135.01  | CONES                                                    |
| 1145.01  | BARRICADES                                               |
| 1150.01  | FLAGGERS                                                 |
| 1180.01  | SKINNY - DRUMS                                           |
| 1205.01  | PAVEMENT MARKINGS - LINE TYPES AND OFFSETS               |
| 1205.02  | PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS      |
| 1205.03  | PAVEMENT MARKINGS - EXITS 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                      |
| 1205.14  | PAVEMENT MARKINGS - ROUNDABOUTS                          |
| 1205.16  | PAVEMENT MARKINGS - BICYCLE FACILITIES                   |
| 1250.01  | RAISED PAVEMENT MARKERS - INSTALLATION SPACING           |
| 1250D01  | RAISED PAVEMENT MARKERS - INSTALLATION SPACING           |
| 1251.01  | RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY)      |
| 1261.01  | GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING |
| 1261.02  | GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING   |
| 1262.01  | GUARDRAIL END DELINEATION                                |

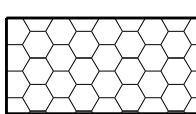
# LEGEND

## GENERAL

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

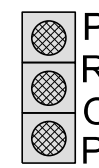
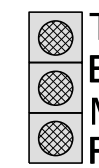
 WORK AREA

 REMOVAL

 TEMPORARY PAVEMENT

 WEDGING

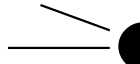
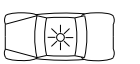
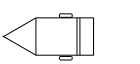
## SIGNALS

-  EXISTING
-  PROPOSED
-  TEMPORARY

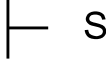
## PAVEMENT MARKINGS

-  EXISTING LINES
-  TEMPORARY LINES

## TRAFFIC CONTROL DEVICES

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

## TEMPORARY SIGNING

-  PORTABLE SIGN
-  STATIONARY SIGN
-  STATIONARY OR PORTABLE SIGN

## PAVEMENT MARKERS

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

## PAVEMENT MARKING SYMBOLS

-  PAVEMENT MARKING SYMBOLS
- 
- 

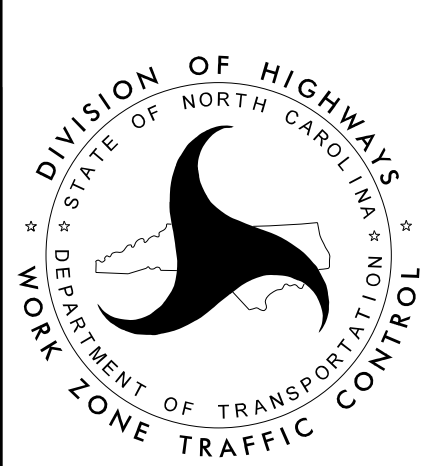
## TEMPORARY PAVEMENT MARKING

- P1 WHITE EDGELINE (4")
- P2 WHITE SOLID LANE LINE (4")
- P3 10 FT. WHITE SKIP (4")
- P4 3 FT. - 9 FT./SP WHITE MINISKIP (4")
- P5 2 FT. - 6 FT./SP WHITE MINISKIP (4")
- P10 YELLOW EDGELINE (4")
- P13 DOUBLE YELLOW CENTERLINE (4")
- P14 2 FT. - 6 FT./SP YELLOW MINISKIP (4")
- P40 WHITE GORELINE (8")
- P41 WHITE DIAGONAL (8")
- P43 WHITE SOLID LANE LINE (8")
- P44 3 FT. - 9 FT./SP WHITE MINISKIP (8")
- P61 WHITE STOPBAR (24")
- P62 WHITE CROSSWALK LINE (24")
- P70 LEFT TURN ARROW
- P71 RIGHT TURN ARROW
- P72 STRAIGHT ARROW
- P73 COMBO. LEFT/STRAIGHT ARROW
- P74 COMBO. RIGHT/STRAIGHT ARROW
- P100 ALPHANUMERIC CHARACTER
- P103 24" YIELD LINE TRIANGLE

**RS&H** 1520 SOUTH BOULEVARD, SUITE 200  
CHARLOTTE, NC 28203  
NC FIRM LICENSE No: F-0493

APPROVED:   
DATE: 9/11/2025





ROADWAY STANDARD  
DRAWINGS & LEGEND

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

## MANAGEMENT STRATEGY

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  
ONE-LANE, TWO WAY OPERATION (FLAGGING)  
NIGHT WORK  
WORK HOUR RESTRICTIONS FOR PEAK TRAVEL  
OFF-SITE DETOURS / USE OF ALTERNATIVE ROUTES

CORRIDOR / NETWORK MANAGEMENT STRATEGIES:

STREET / INTERSECTION IMPROVEMENTS

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

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

TIME RESTRICTIONS

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

| ROAD NAME           | DAY AND TIME RESTRICTIONS                              |
|---------------------|--------------------------------------------------------|
| W. CATAWBA AVE.     | MONDAY THRU SUNDAY 5:00AM TO 9:00PM                    |
| TORRENCE CHAPEL RD. | MONDAY THRU FRIDAY 6:00AM TO 9:00AM & 4:00PM TO 8:00PM |
| KNOX RD.            | MONDAY THRU FRIDAY 6:00AM TO 9:00AM & 4:00PM TO 8:00PM |
| LIVERPOOL PKWY.     | MONDAY THRU FRIDAY 6:00AM TO 9:00AM & 4:00PM TO 8:00PM |
| ONE NORMAN BLVD.    | MONDAY THRU FRIDAY 6:00AM TO 9:00AM & 4:00PM TO 8:00PM |

CONTRACTOR TO COORDINATE LANE CLOSURES WITH THE I-77 MOBILITY PARTNERS WITH 7 DAYS ADVANCE NOTICE.

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

ROAD NAME  
ALL ROADS

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 5:00AM DECEMBER 31st TO 9:00PM JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 9:00PM THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 5:00AM THURSDAY AND 9:00PM MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 5:00AM FRIDAY TO 9:00PM TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 5:00AM THE DAY BEFORE INDEPENDENCE DAY AND 9:00PM THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 5:00AM THE THURSDAY BEFORE INDEPENDENCE DAY AND 9:00PM THE TUESDAY AFTER INDEPENDENCE DAY.

- FOR LABOR DAY, BETWEEN THE HOURS OF 5:00AM FRIDAY AND 9:00PM TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 5:00AM TUESDAY TO 9:00PM MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 5:00AM THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 9:00PM THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

## GENERAL NOTES

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

LANE 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.

I) DO NOT INSTALL MORE THAN 200 FT OF LANE CLOSURE ON W. CATAWBA AVE. MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.

J) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON W. CATAWBA AVE..

K) 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.

L) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

PAVEMENT EDGE DROP OFF REQUIREMENTS

M) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

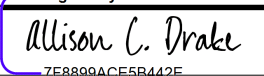
BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

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

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

N) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 200 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

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|                                                                                                                  |                                                                                       |
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| APPROVED: <br>75889AC5B442E |  |
| DATE: 10/15/2025                                                                                                 |                                                                                       |
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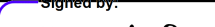


TRANSPORTATION  
OPERATIONS  
PLAN

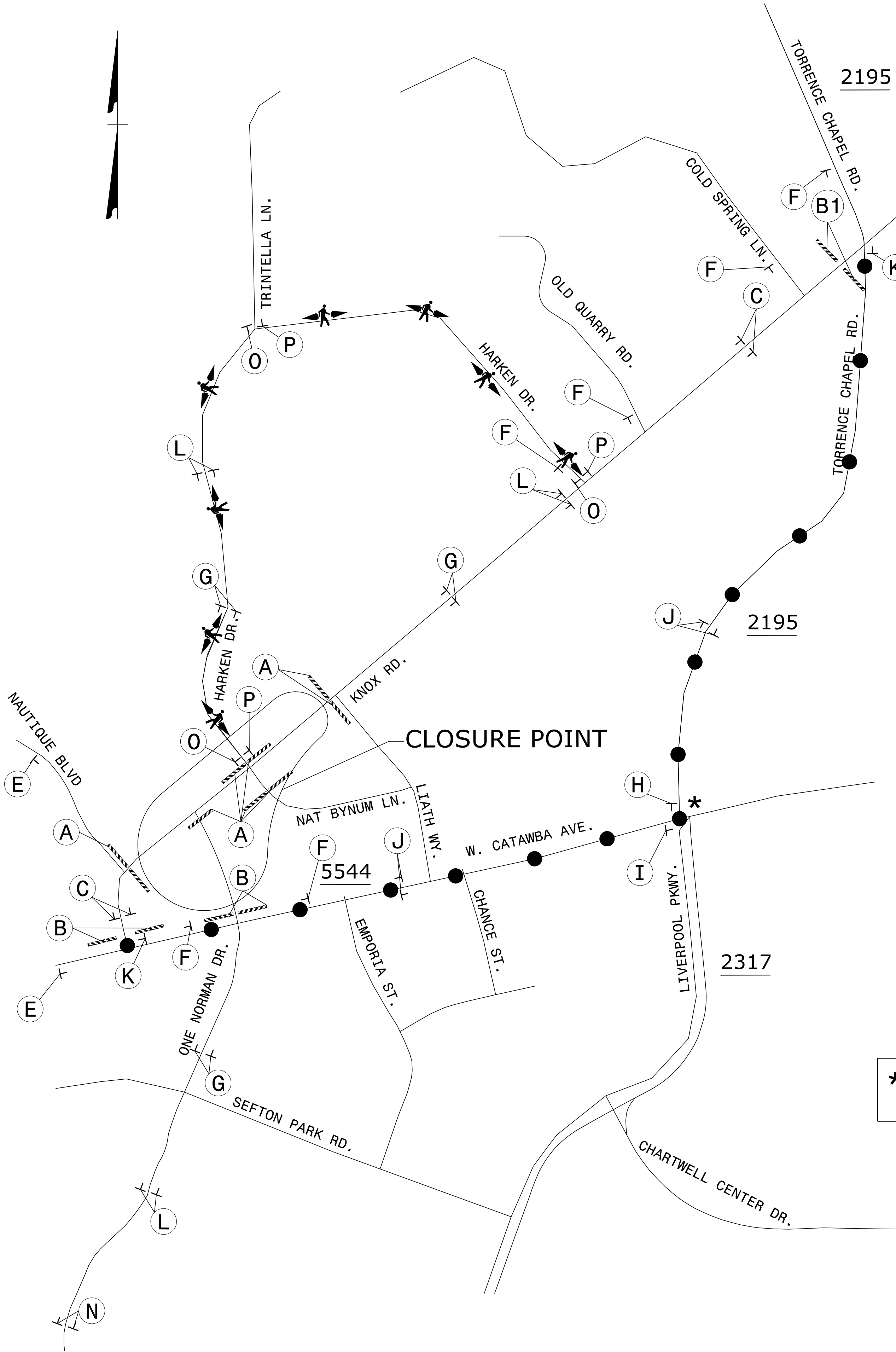
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| <p><b>DOCUMENT NOT CONSIDERED FINAL<br/>UNLESS ALL SIGNATURES COMPLETED</b></p>                                                                                                        |                                                                                              |                                               |

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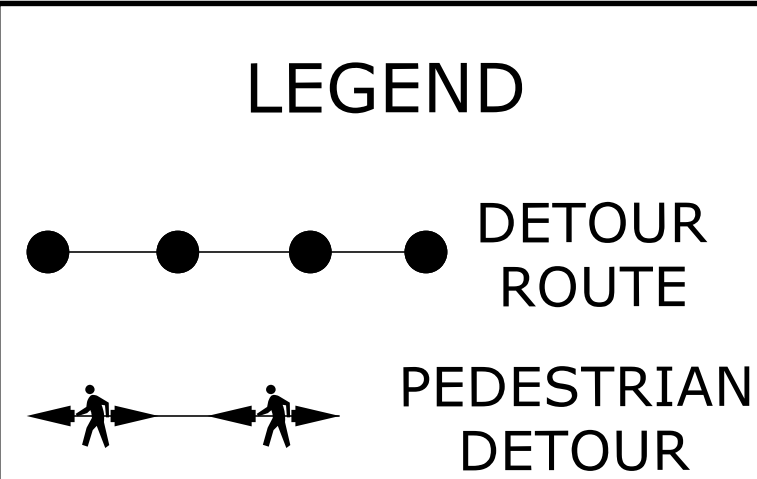
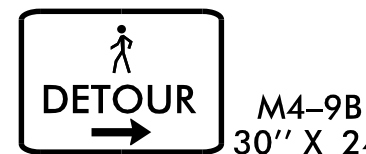
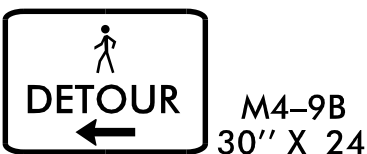
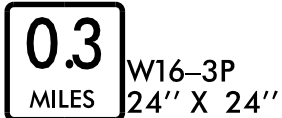
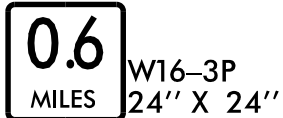
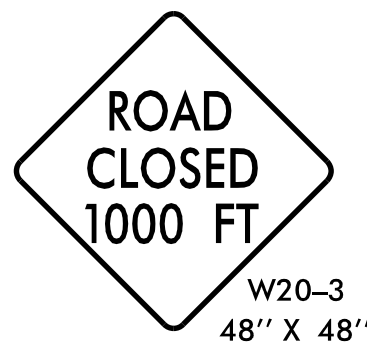
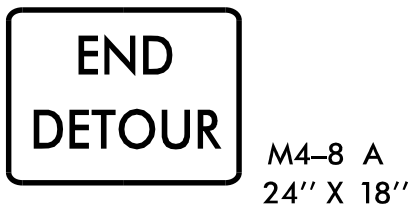
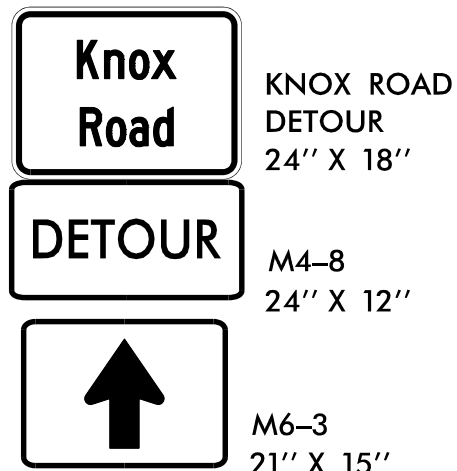
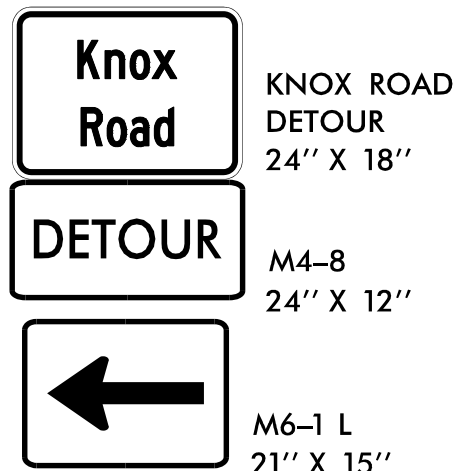
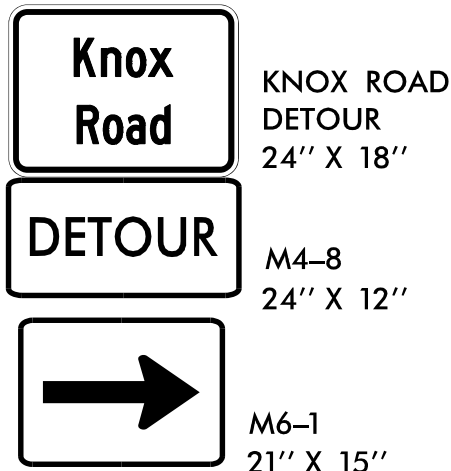
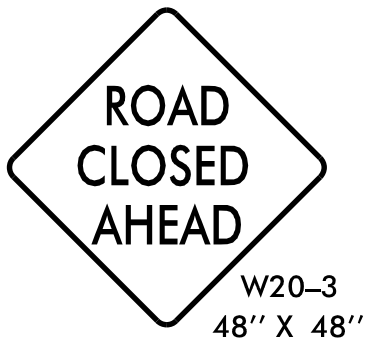
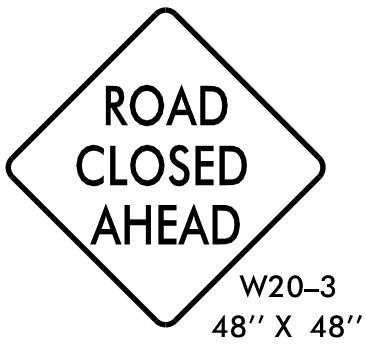
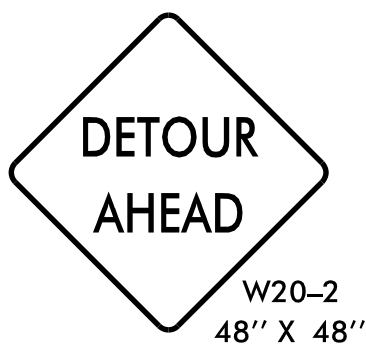
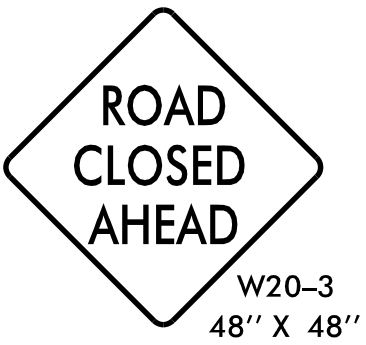
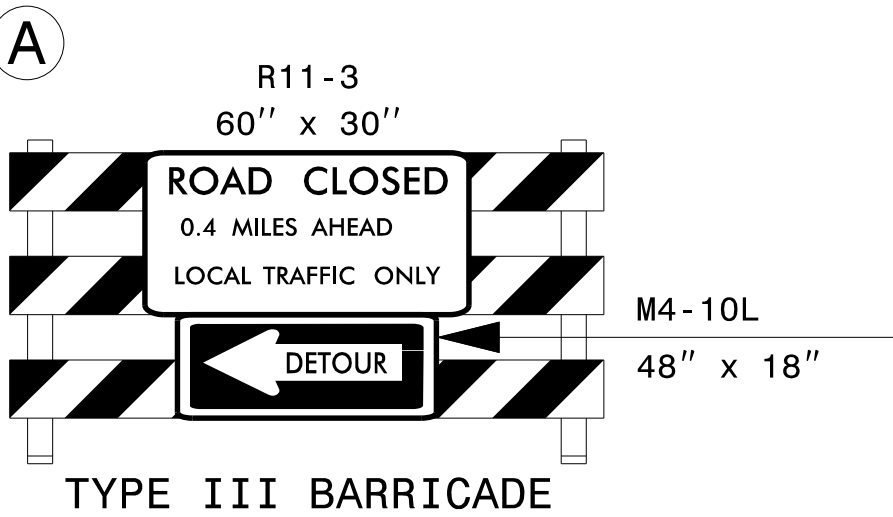
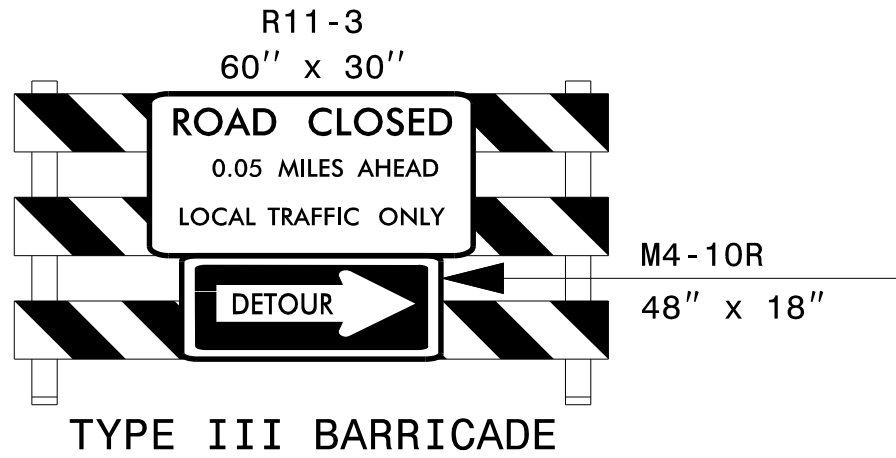
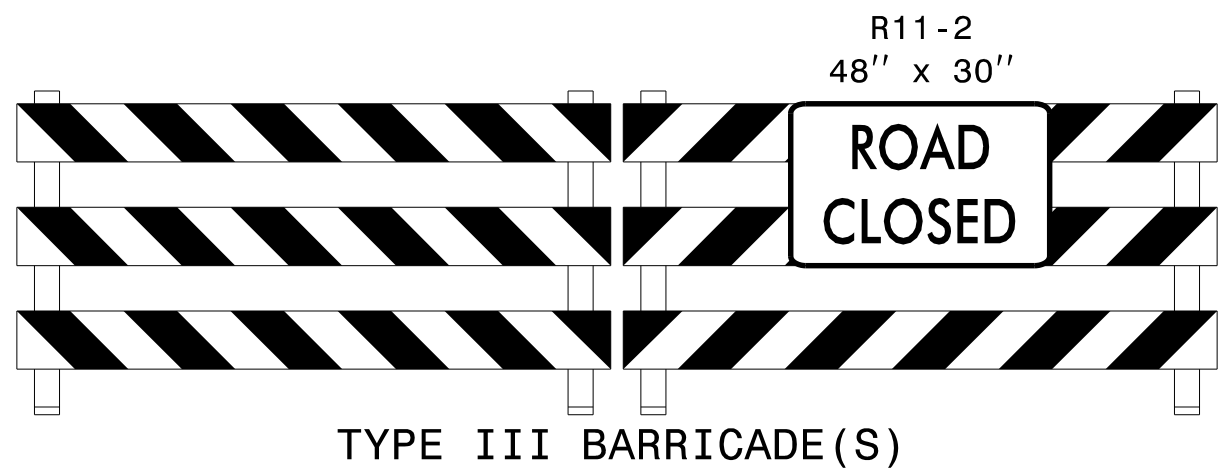
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|                                                                  |                                                                                                                        |                                                                                       |                        |
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| APPROVED: _____<br>DATE: 9/11/2025 _____                         | signed by:<br><br>7F8696ACES0442E |  | DETOUR<br>SIGN DESIGNS |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED |                                                                                                                        |                                                                                       |                        |

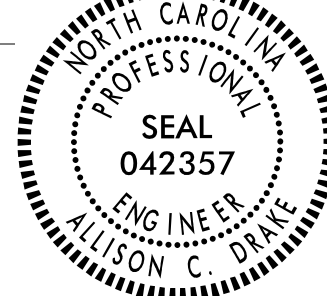
8/5/2025  
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User:AvgerinN



\* NOTE: SIGNAL TIMING TO BE ADJUSTED PER THE ENGINEER



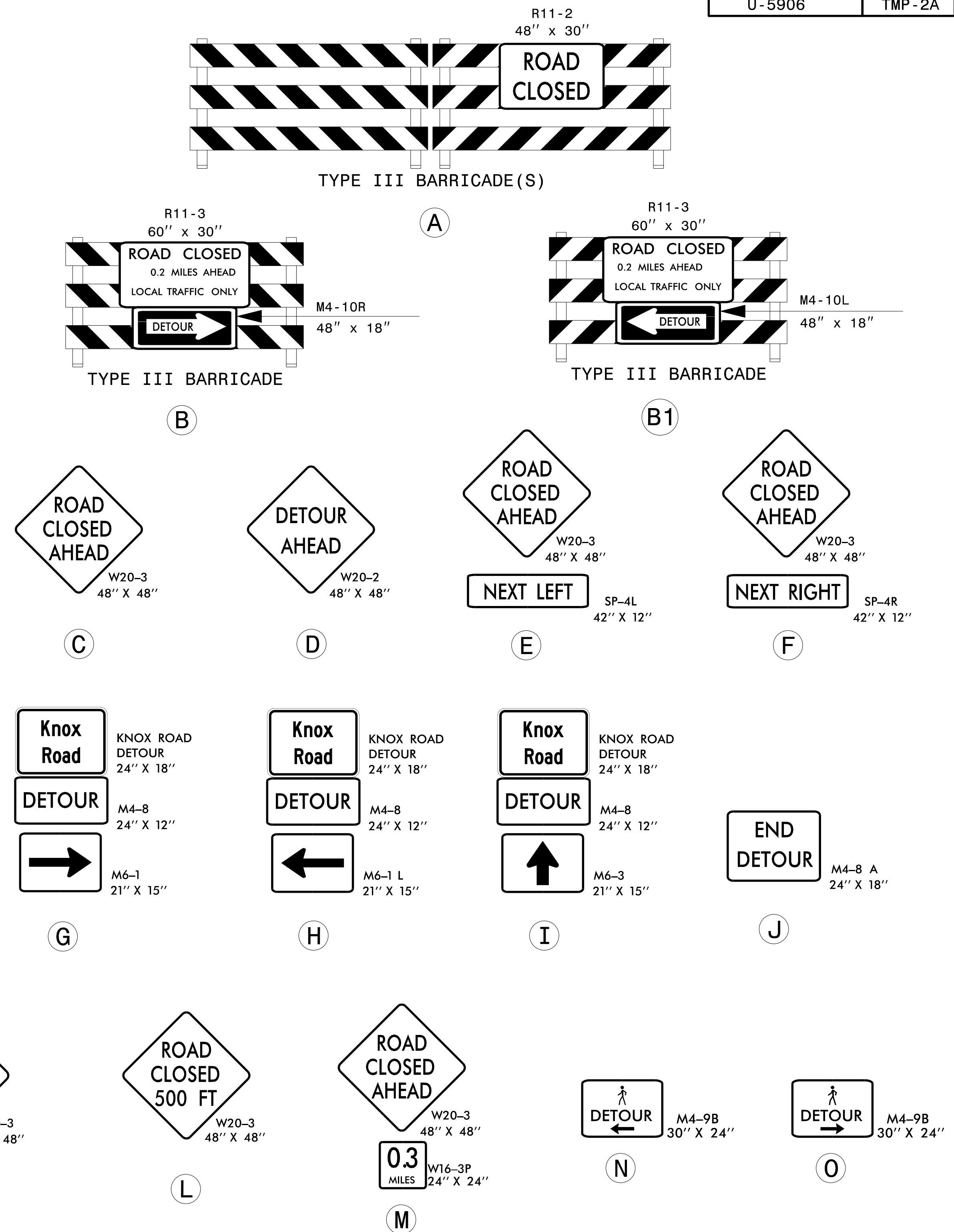
APPROVED:   
DATE: 9/11/2025



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



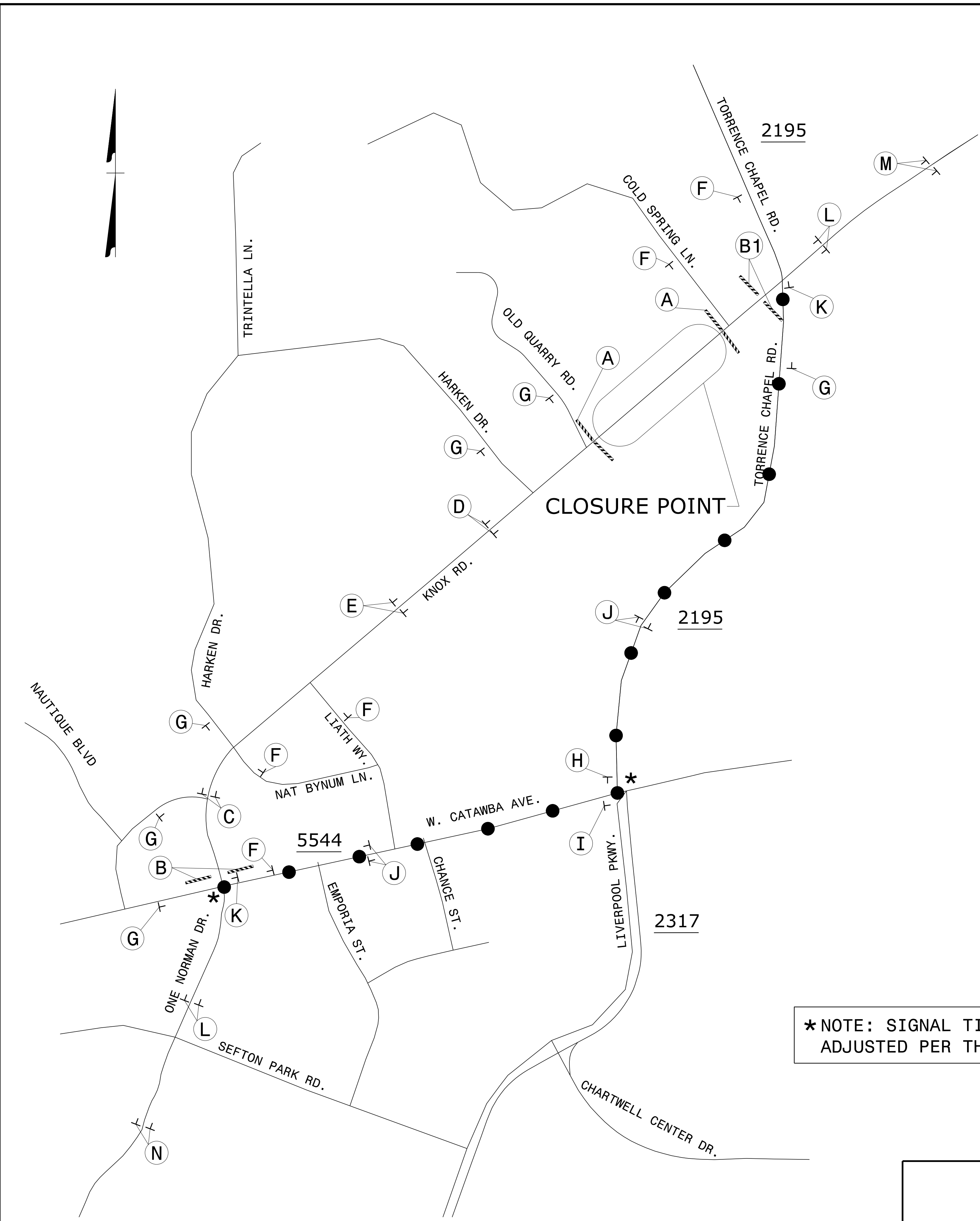
PHASE I STEP 2  
KNOX  
ROAD DETOUR



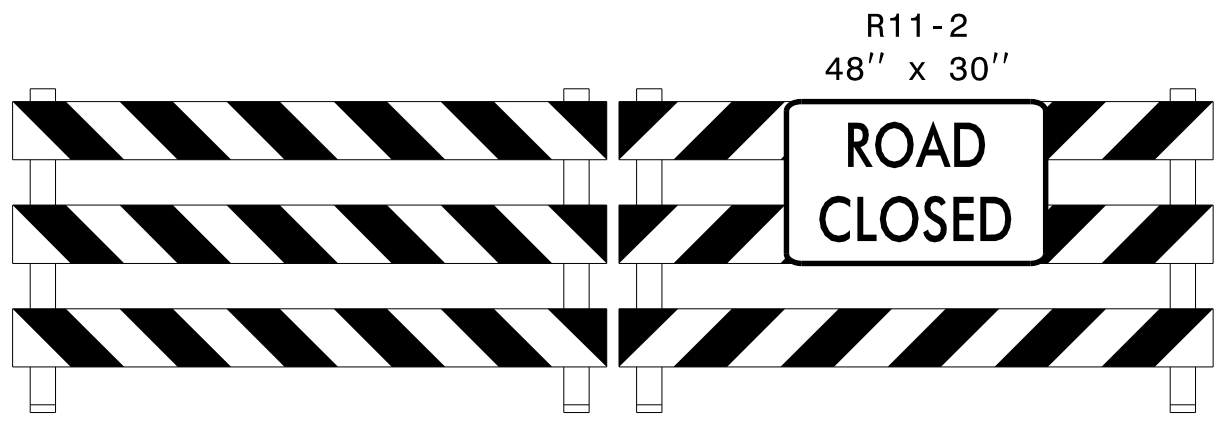
**RS&H** 1520 SOUTH BOULEVARD, SUITE 200  
CHARLOTTE, NC 28203  
NC FIRM LICENSE No: F-0493

|                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                          |                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>LEGEND</b></p> <p>● — ● — ● — ●      <b>DETOUR ROUTE</b></p> <p>⬅️ ➡️      <b>PEDESTRIAN DETOUR</b></p> | <p>APPROVED: _____</p> <p>DATE: 9/11/2025</p> <div style="border: 1px solid black; border-radius: 50%; padding: 10px; text-align: center;"> <small>SIGNATURE OF</small><br/> <i>Allison C. Drake</i><br/> <small>778999ACE68445E</small> </div> <div style="border: 1px solid black; border-radius: 50%; padding: 10px; text-align: center;"> <small>NORTH CAROLINA PROFESSIONAL ENGINEER</small><br/> <b>SEAL 042357</b><br/> <small>ALLISON C. DRAKE</small> </div> <p style="text-align: center;"><b>DOCUMENT NOT CONSIDERED FINAL<br/>UNLESS ALL SIGNATURES COMPLETED</b></p> | <div style="text-align: center;"> </div> | <p style="text-align: center;"><b>PHASE I STEP 3</b></p> <p style="text-align: center;"><b>KNOX</b></p> <p style="text-align: center;"><b>ROAD DETOUR</b></p> |
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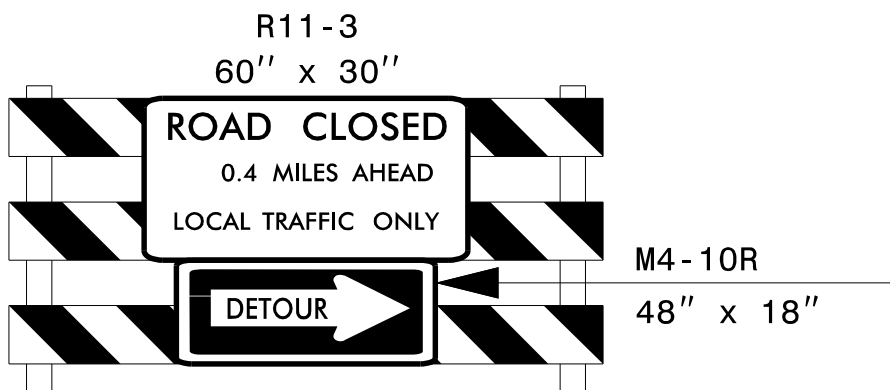
| PROJ. REFERENCE NO. | SHEET NO. |
|---------------------|-----------|
| U-5906              | TMP-2B    |



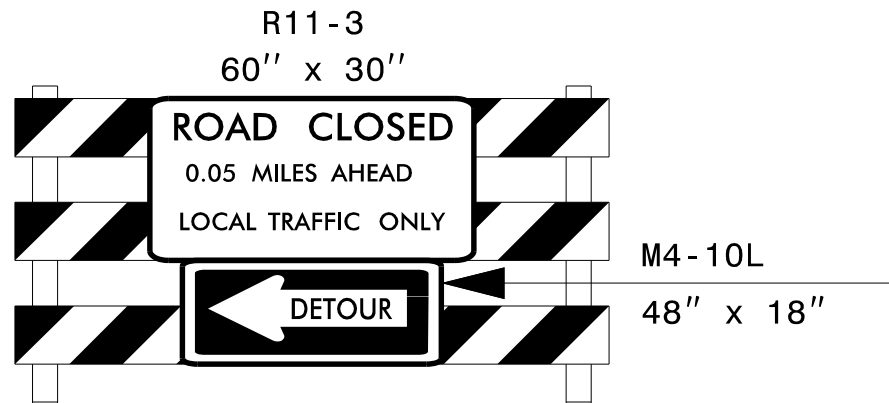
\* NOTE: SIGNAL TIMING TO BE  
ADJUSTED PER THE ENGINEER



TYPE III BARRICADE(S)



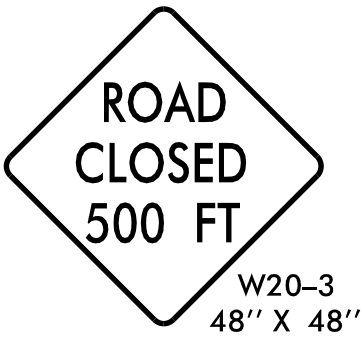
TYPE III BARRICADE



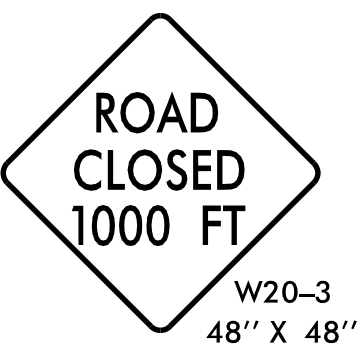
TYPE III BARRICADE



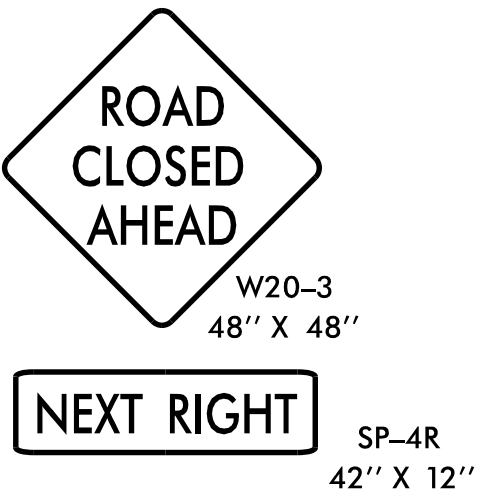
C



D



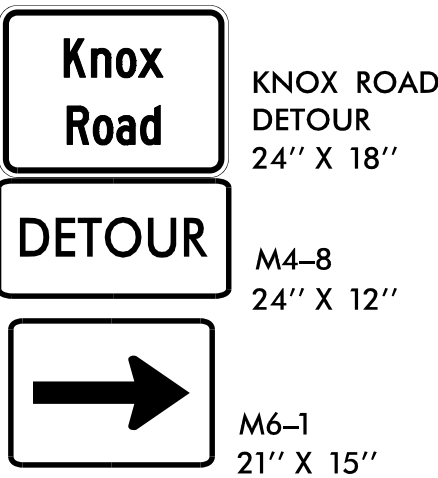
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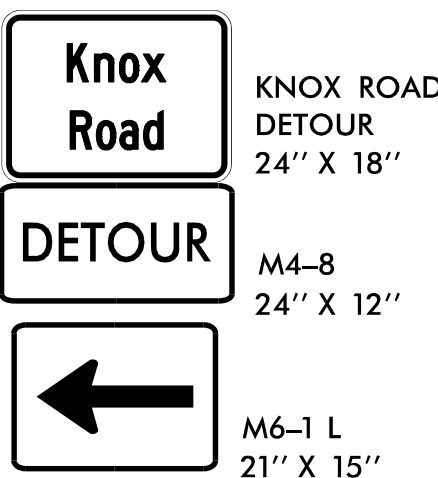
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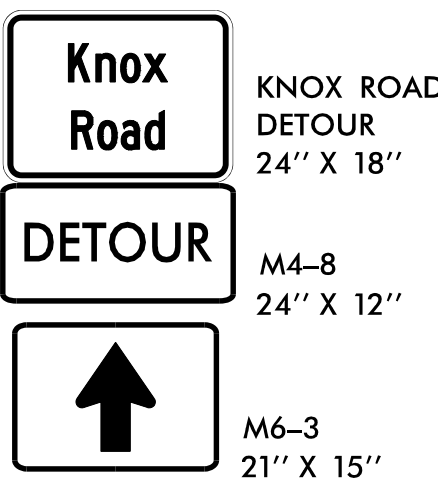
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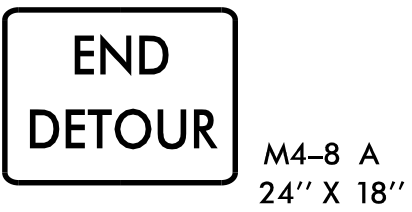
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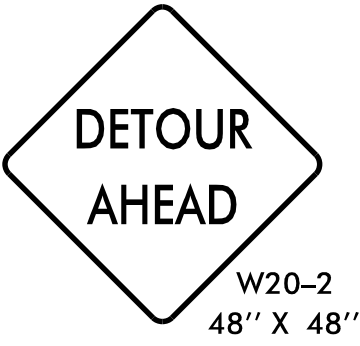
I



J



K



L

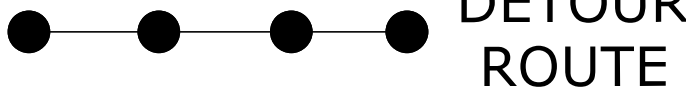


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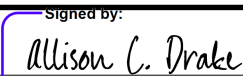
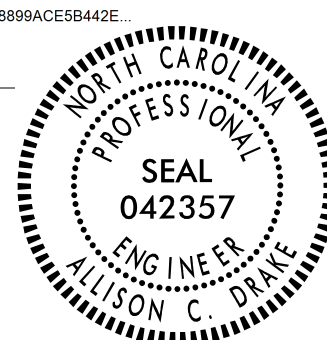


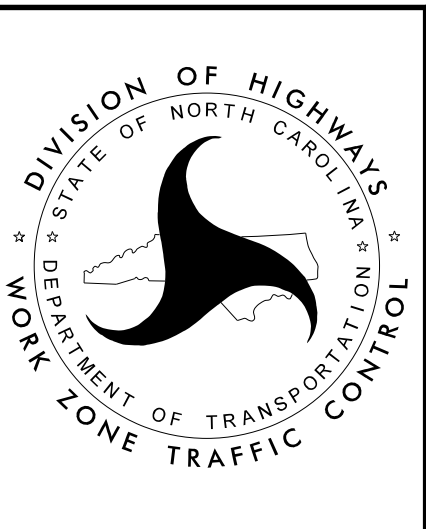
N

LEGEND



DETOUR  
ROUTE

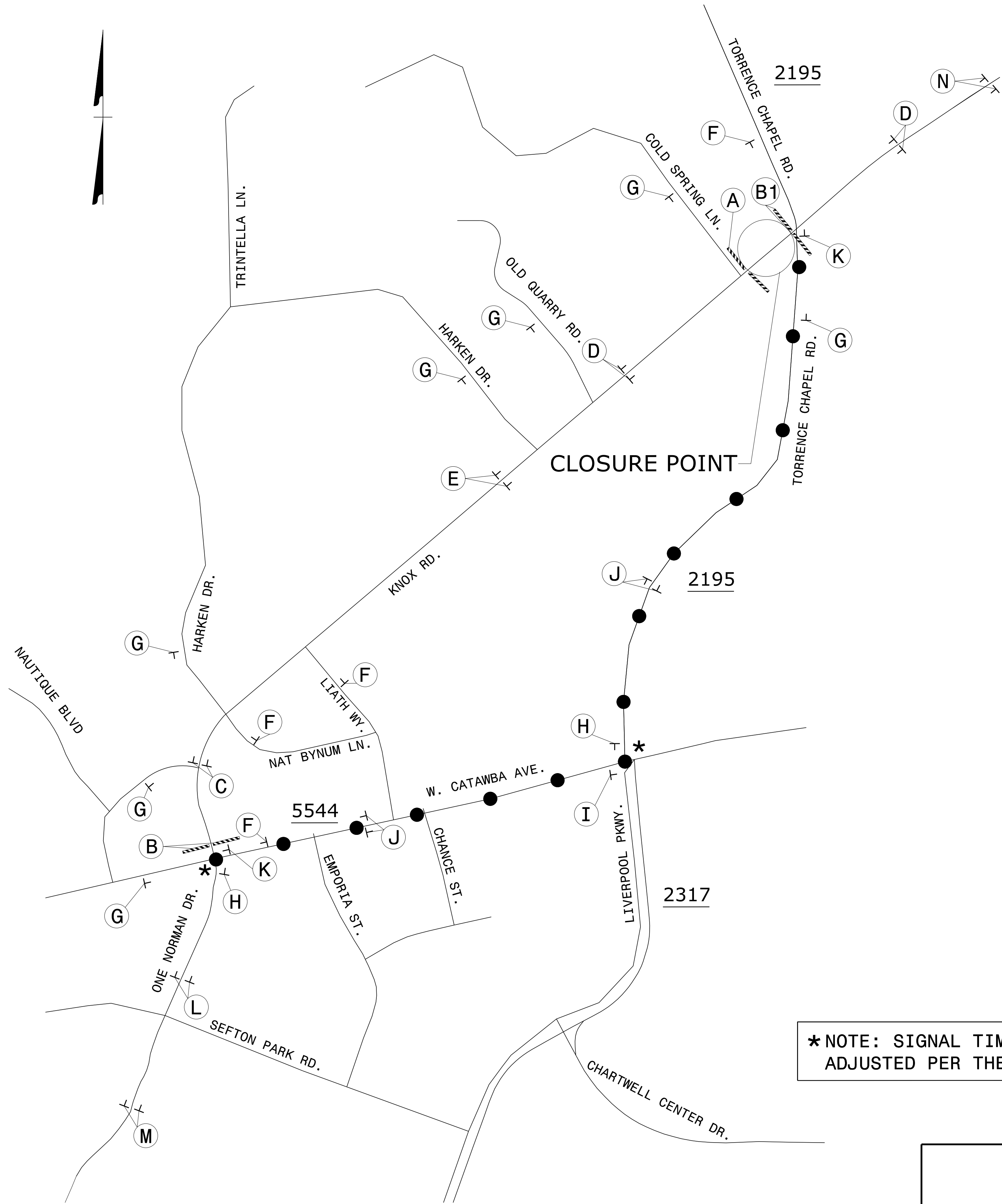
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| APPROVED:                                                                             |  |
| DATE:                                                                                 | 9/11/2025                                                                             |
|  |                                                                                       |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED                      |                                                                                       |



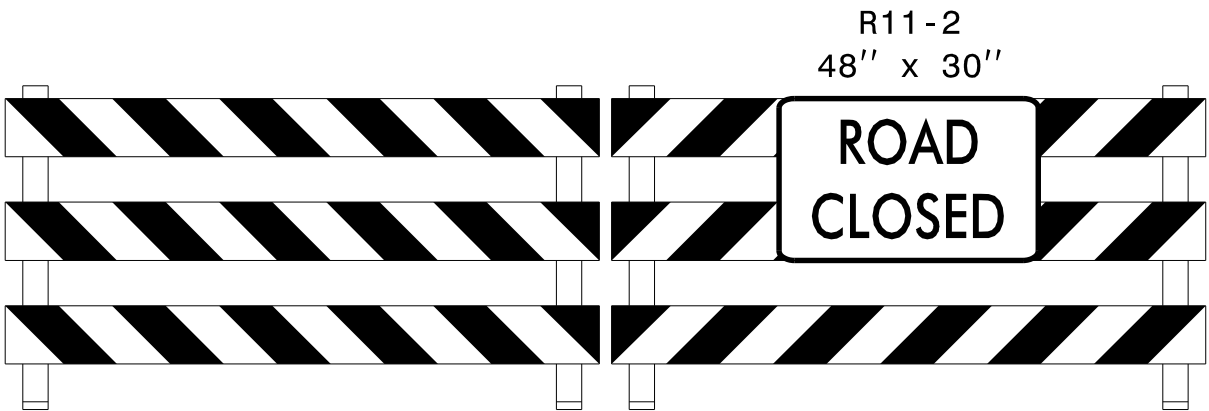
PHASE I STEP 4  
KNOX  
ROAD DETOUR

**RS&H** 1520 SOUTH BOULEVARD, SUITE 200  
CHARLOTTE, NC 28203  
NC FIRM LICENSE No: F-0493

| PROJ. REFERENCE NO. | SHEET NO. |
|---------------------|-----------|
| U - 5906            | TMP - 2C  |

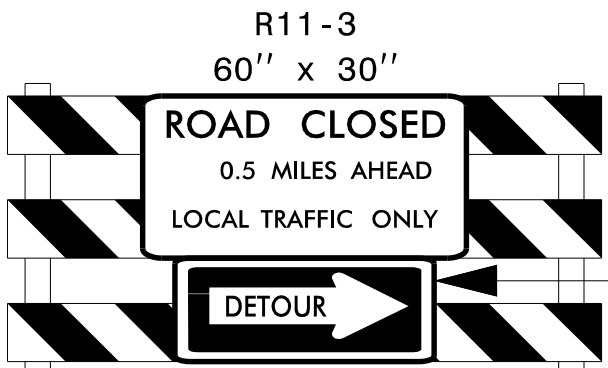


\* NOTE: SIGNAL TIMING TO BE ADJUSTED PER THE ENGINEER



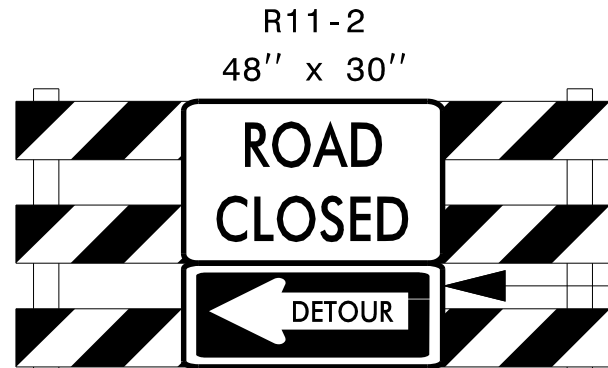
TYPE III BARRICADE (S)

A



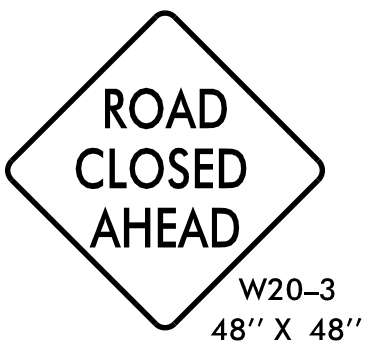
TYPE III BARRICADE

B

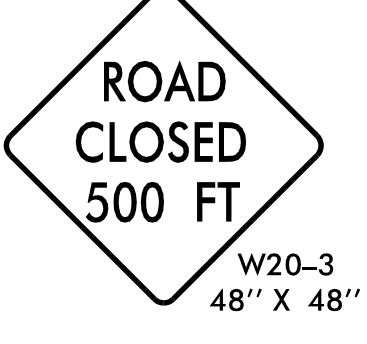


TYPE III BARRICADE

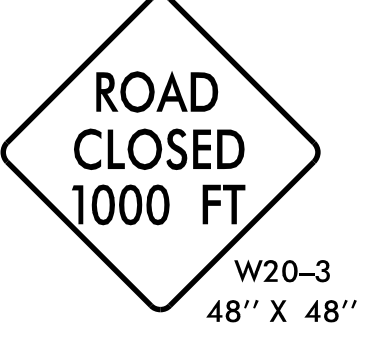
B1



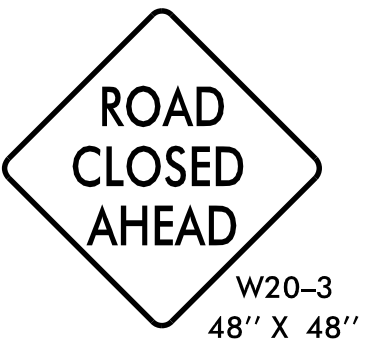
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D



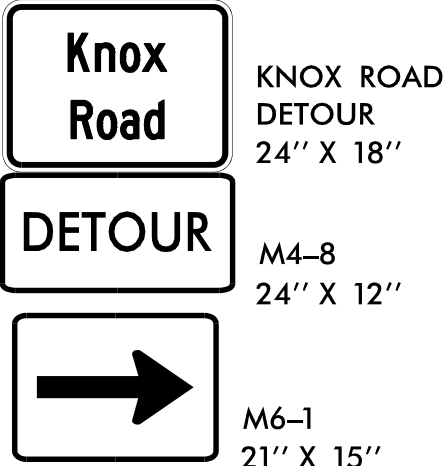
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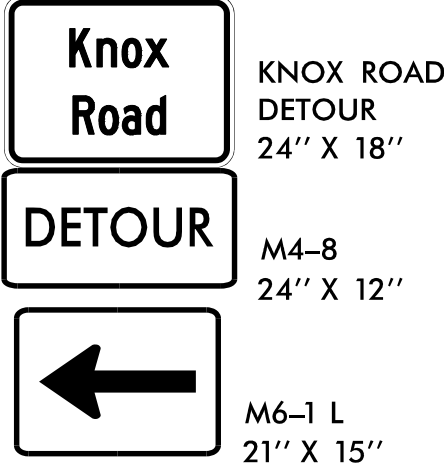
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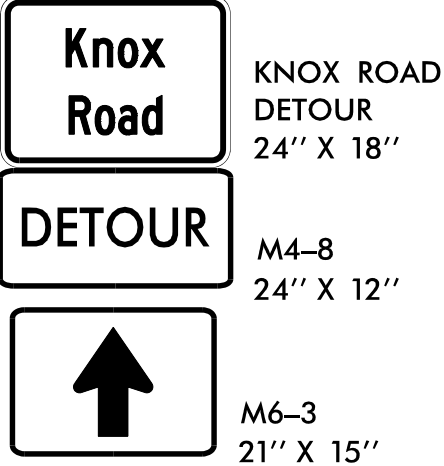
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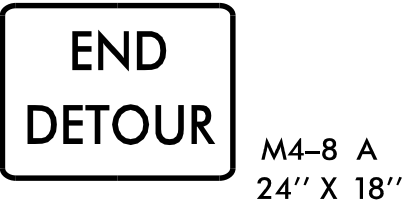
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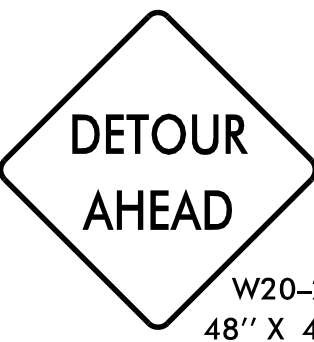
I



J



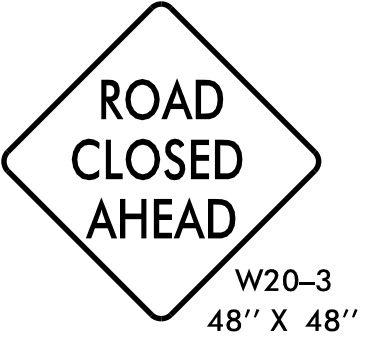
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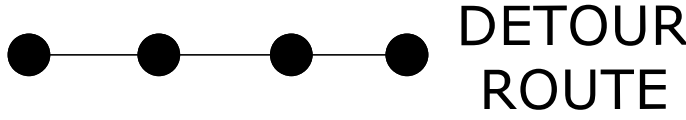
L



M

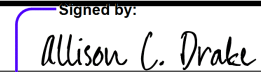


N



DETOUR ROUTE

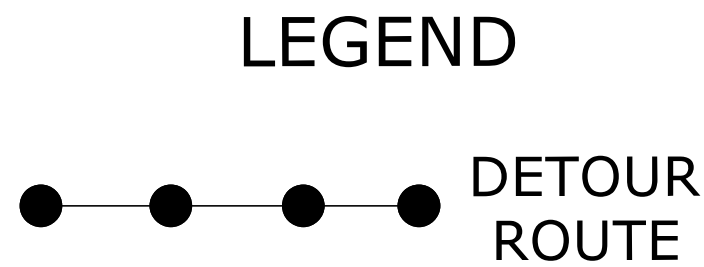
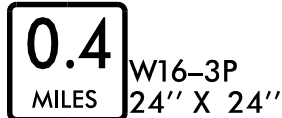
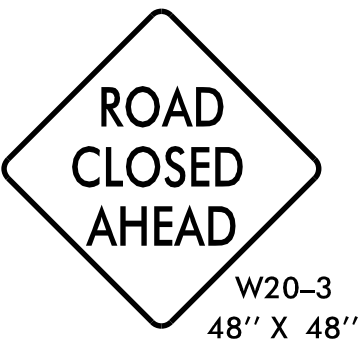
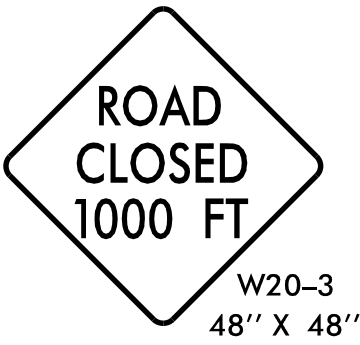
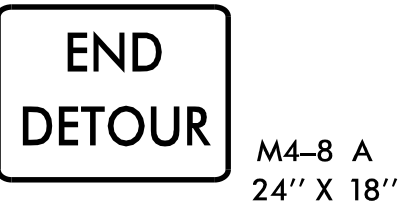
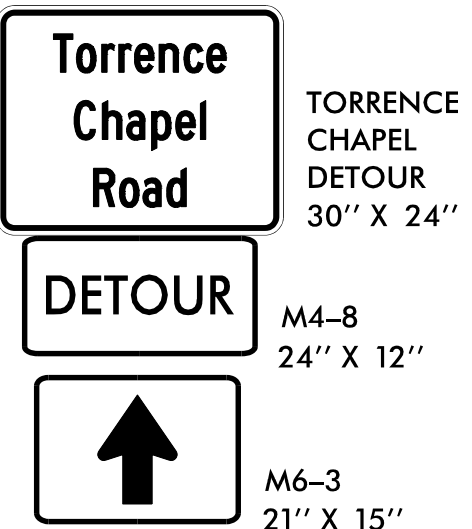
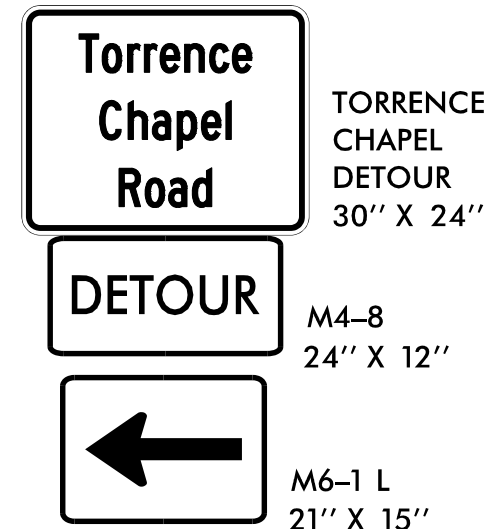
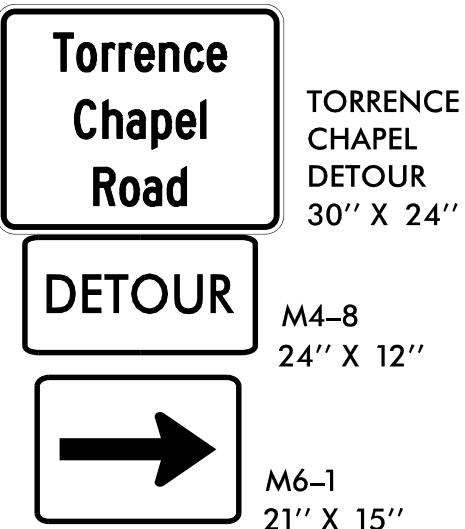
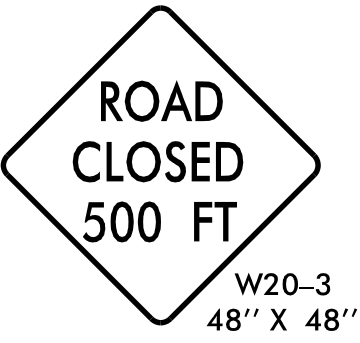
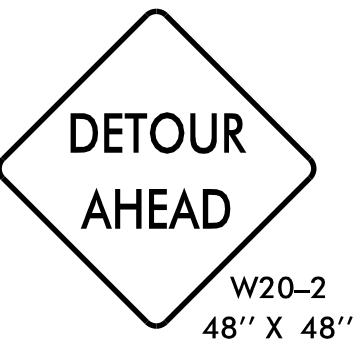
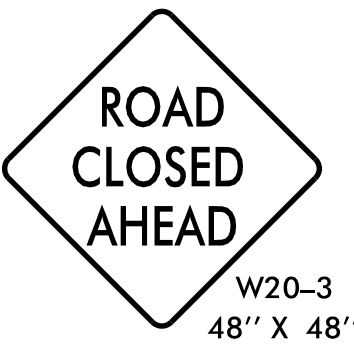
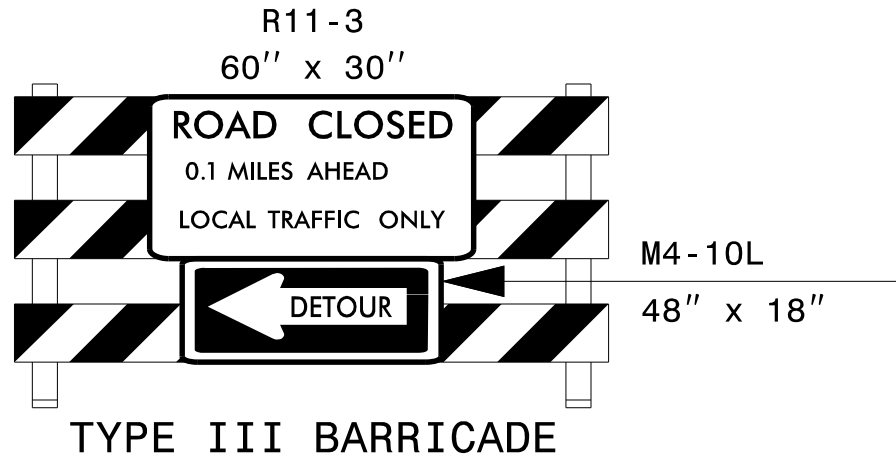
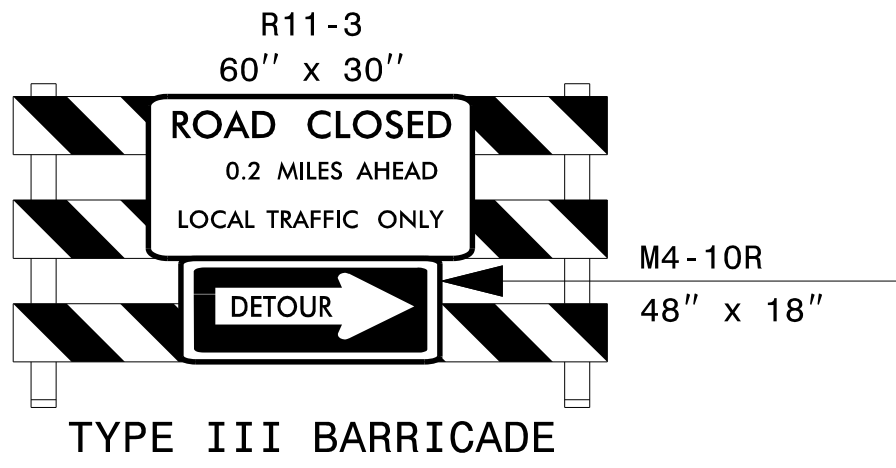
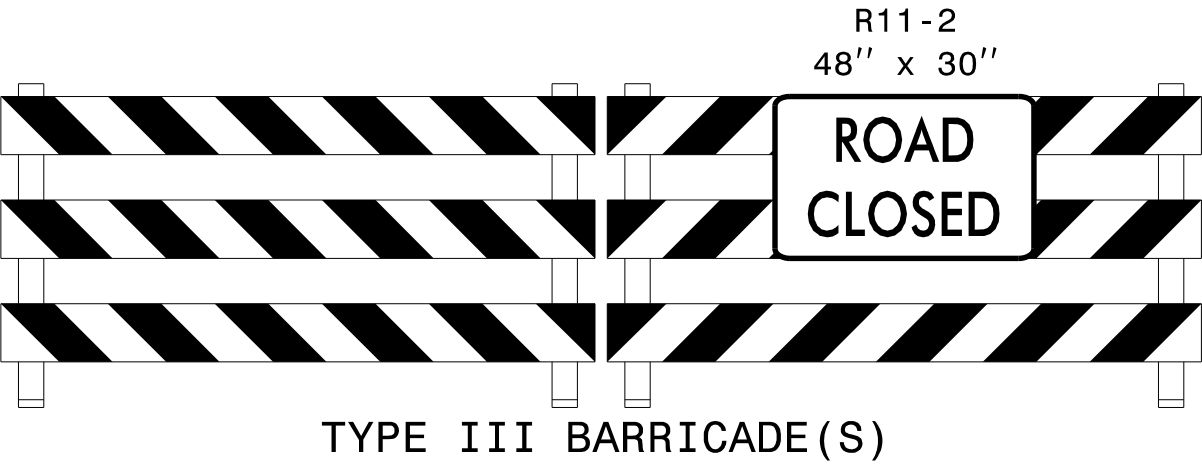
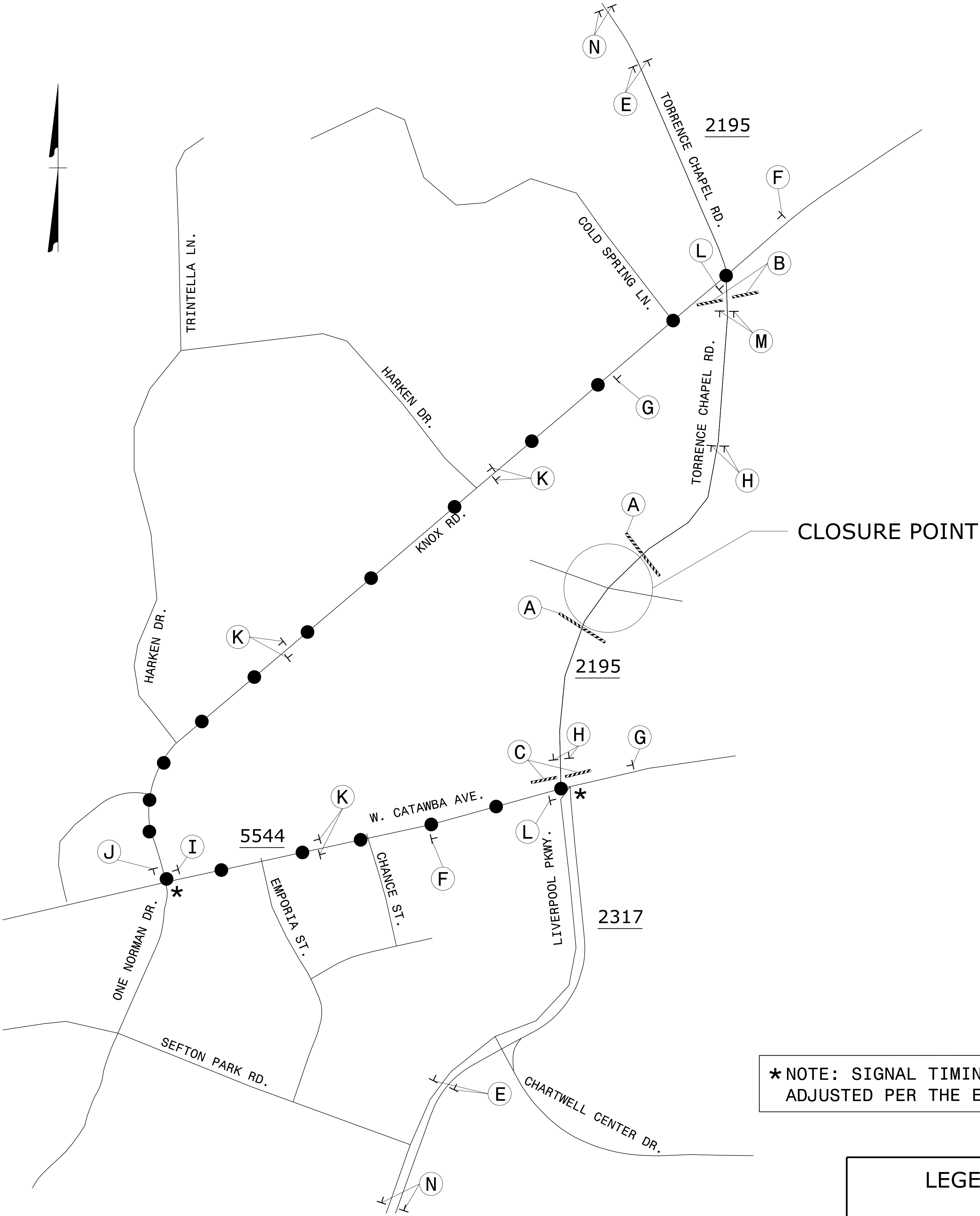
**RS&H** 1520 SOUTH BOULEVARD, SUITE 200  
CHARLOTTE, NC 28203  
NC FIRM LICENSE No: F-0493

|                                                                                                 |
|-------------------------------------------------------------------------------------------------|
| APPROVED:  |
| DATE: 9/11/2025                                                                                 |
|            |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED                                |



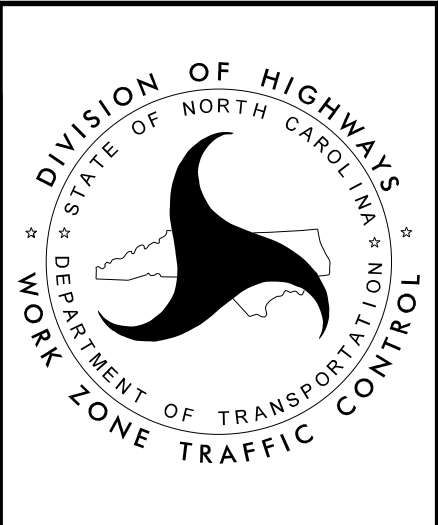
PHASE II STEP 1  
KNOX  
ROAD DETOUR

| PROJ. REFERENCE NO. | SHEET NO. |
|---------------------|-----------|
| U-5906              | TMP-2D    |



APPROVED: Allison C. Drake  
DATE: 9/11/2025

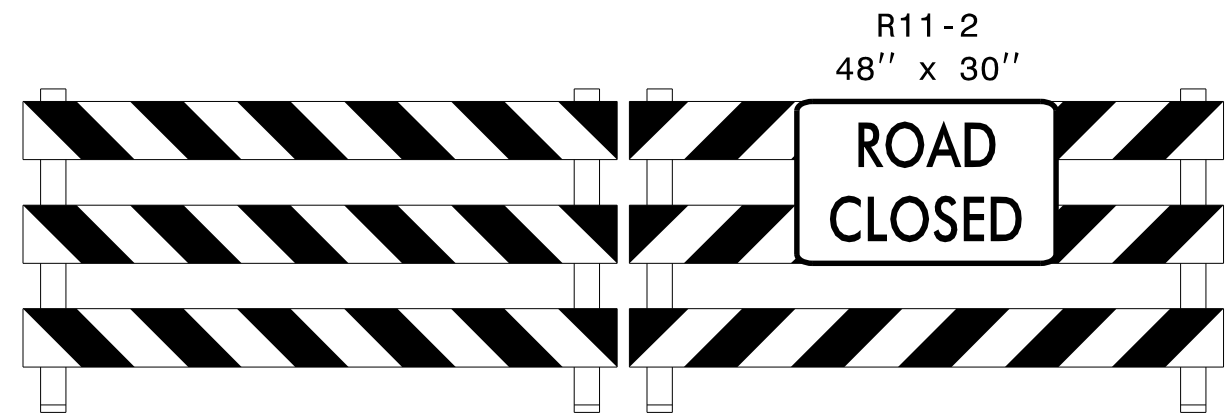
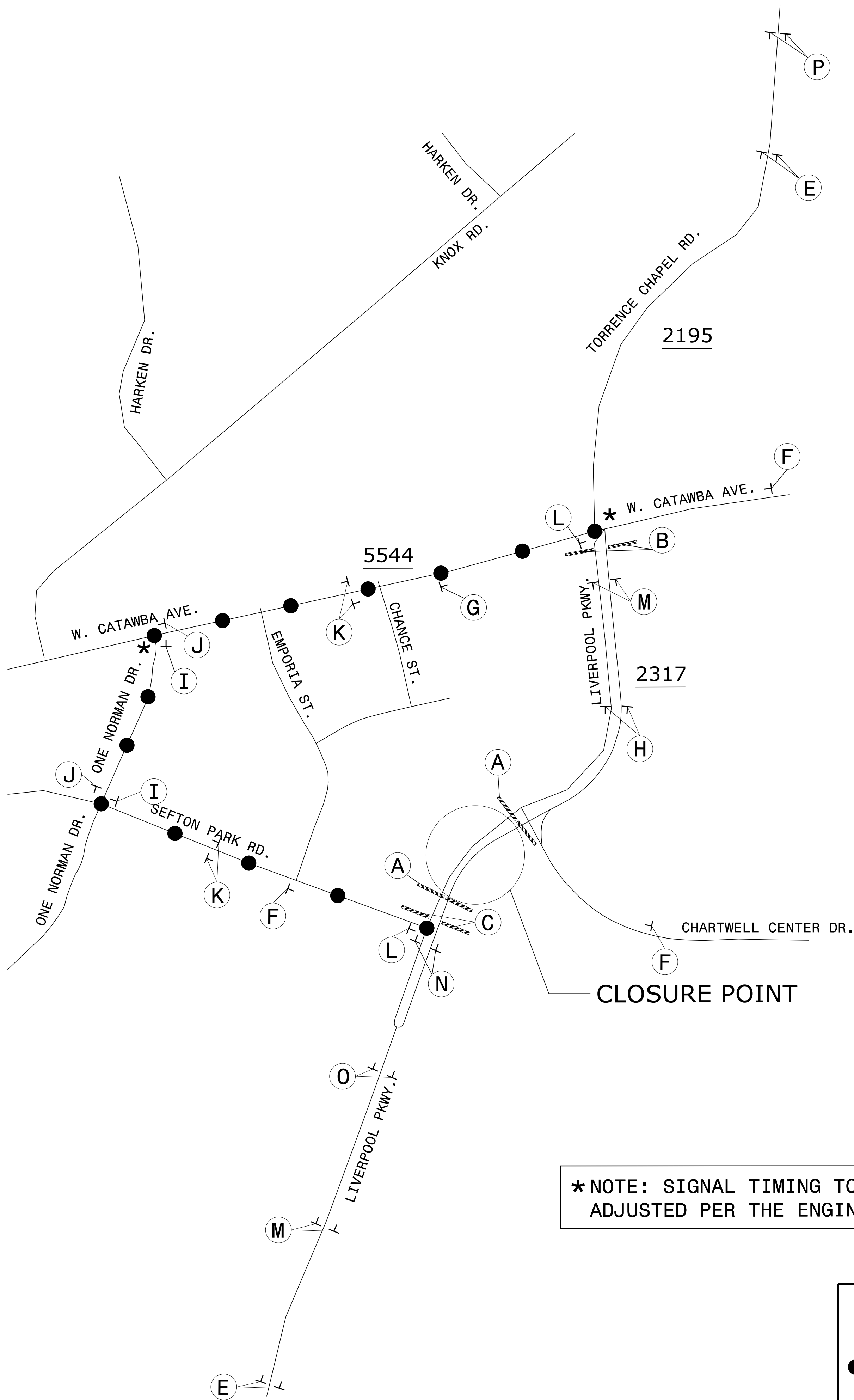
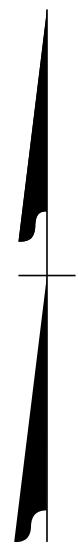
DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



PHASE III STEPS 2 & 3  
TORRENCE CHAPEL  
ROAD DETOUR

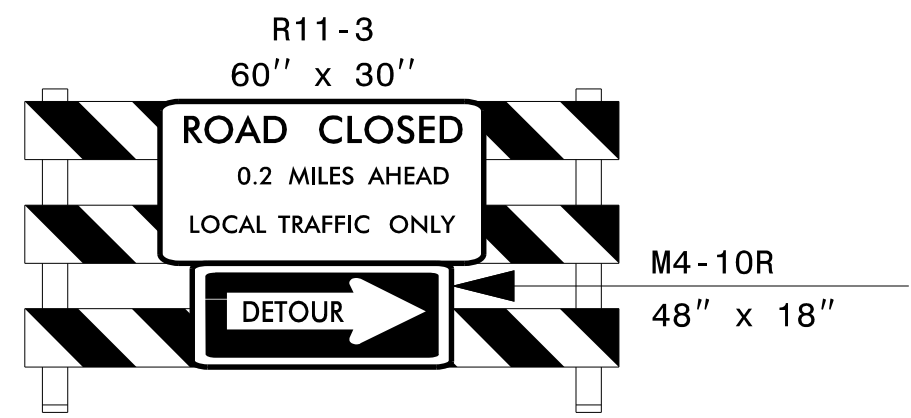
**RS&H** 1520 SOUTH BOULEVARD, SUITE 200  
CHARLOTTE, NC 28203  
NC FIRM LICENSE No: F-0493

8/11/2025  
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User:AvgerinN



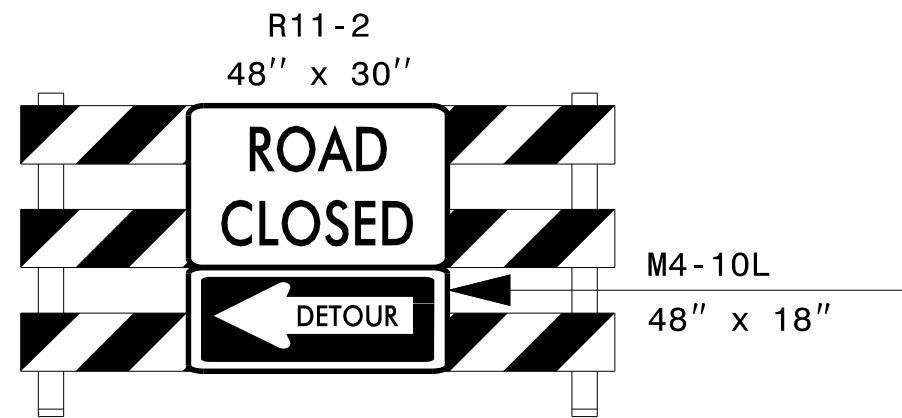
TYPE III BARRICADE(S)

A



TYPE III BARRICADE

B

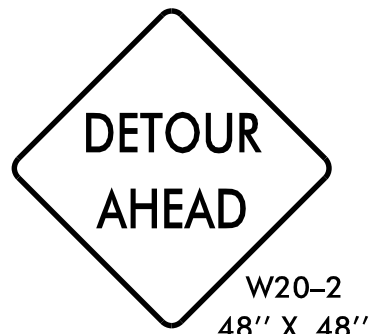


TYPE III BARRICADE

C



D



E



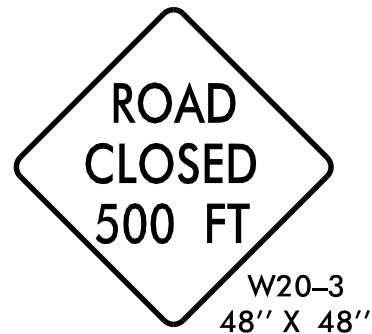
NEXT LEFT

F



NEXT RIGHT

G



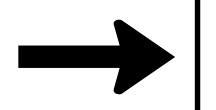
H



LIVERPOOL  
PKWY.  
DETOUR  
30" X 18"



M4-8  
24" X 12"



M6-1  
21" X 15"

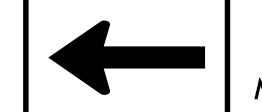
I



LIVERPOOL  
PKWY.  
DETOUR  
30" X 18"



M4-8  
24" X 12"



M6-1 L  
21" X 15"

J



LIVERPOOL  
PKWY.  
DETOUR  
30" X 18"

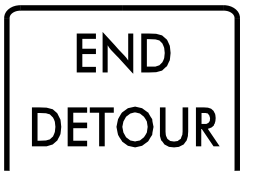


M4-8  
24" X 12"

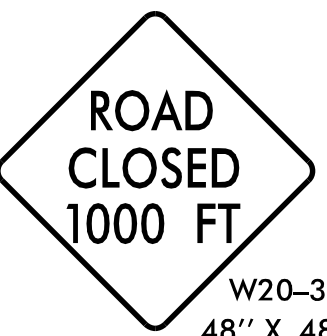


M6-3  
21" X 15"

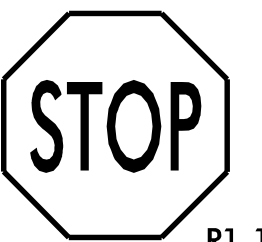
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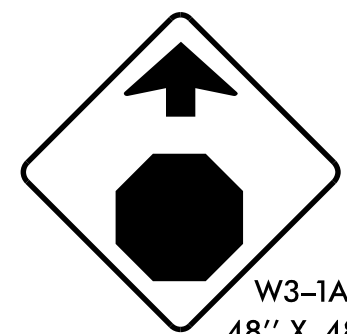
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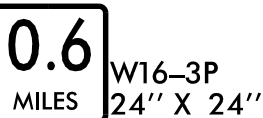
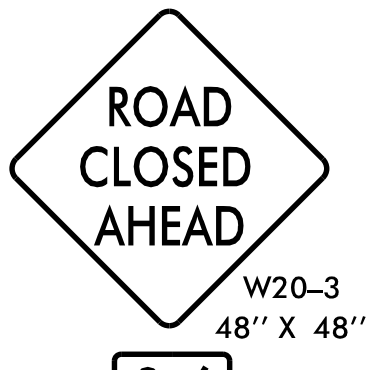
M



N

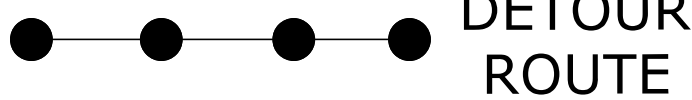


O



P

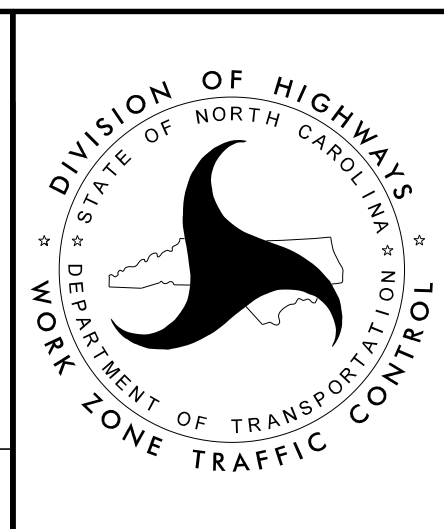
### LEGEND



DETOUR  
ROUTE

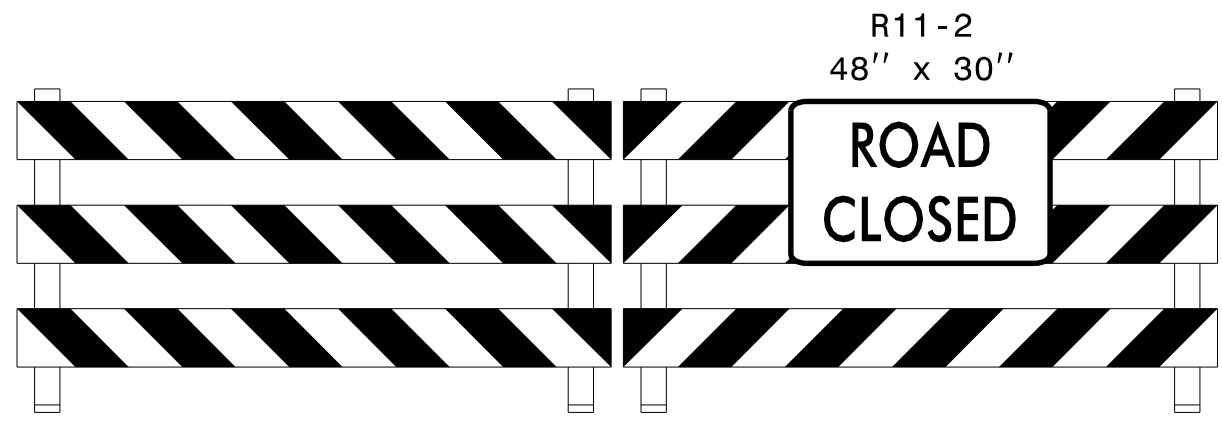
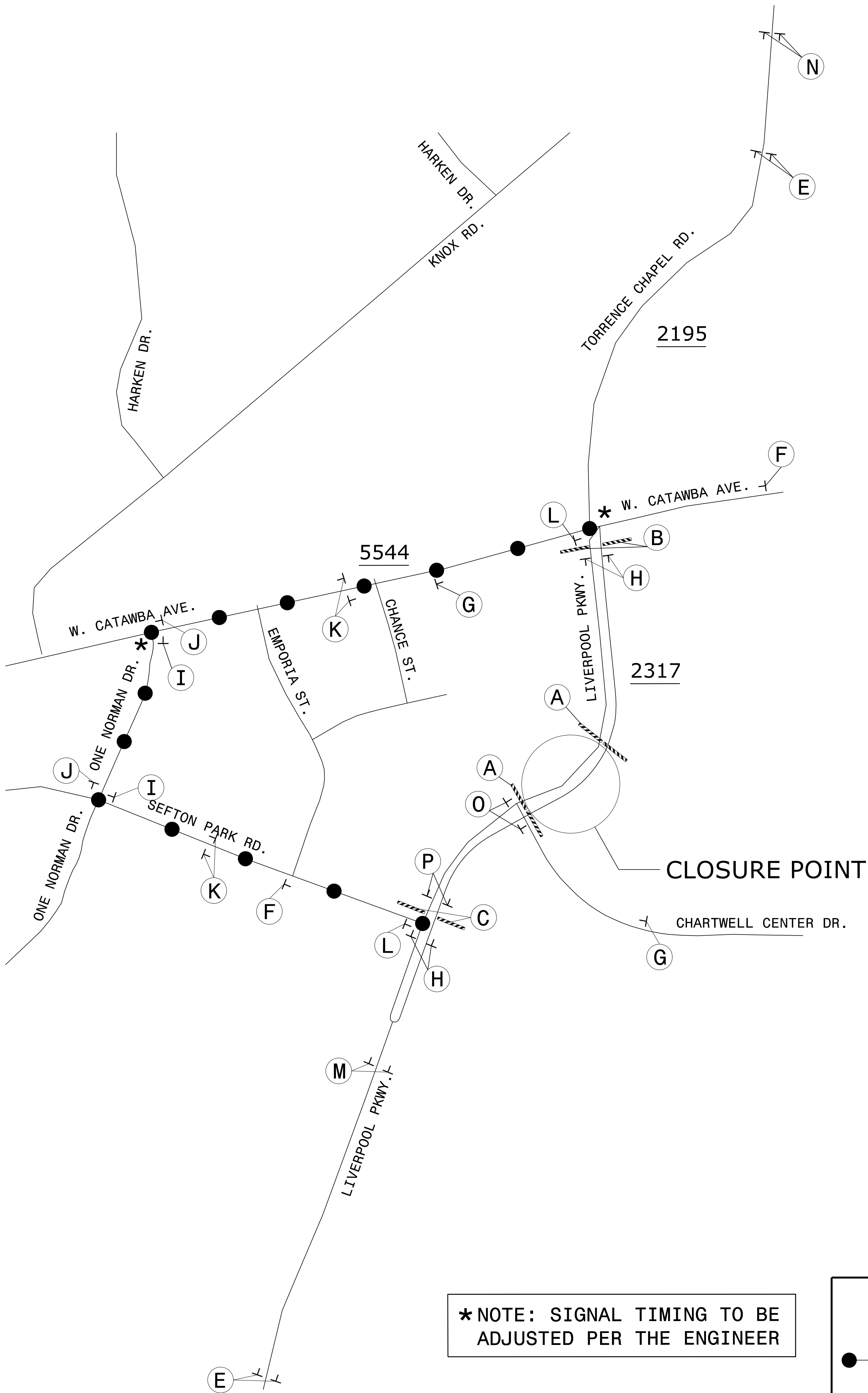
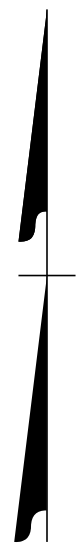
\*NOTE: SIGNAL TIMING TO BE  
ADJUSTED PER THE ENGINEER

|                                                                  |                                                       |
|------------------------------------------------------------------|-------------------------------------------------------|
| APPROVED: _____                                                  | Signed by: <u>Allison C. Drake</u><br>7F8B9BACE58442E |
| DATE: 9/11/2025                                                  |                                                       |
|                                                                  |                                                       |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED |                                                       |



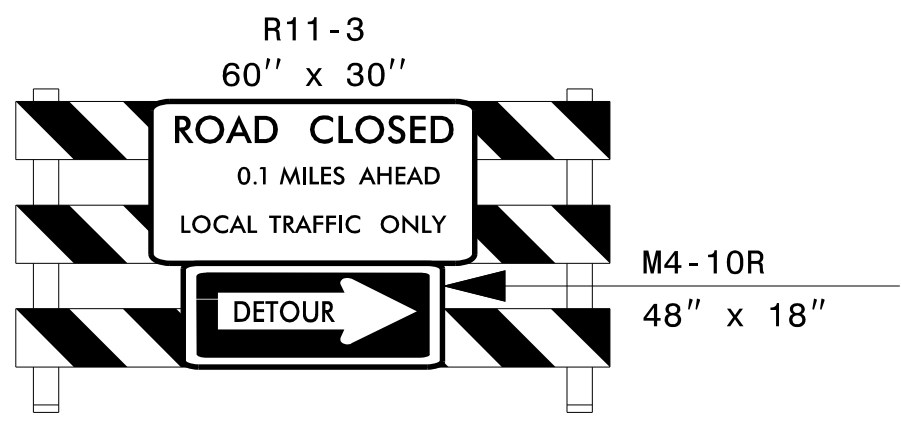
PHASE IV STEP 2  
LIVERPOOL  
PKWY DETOUR

8/11/2025  
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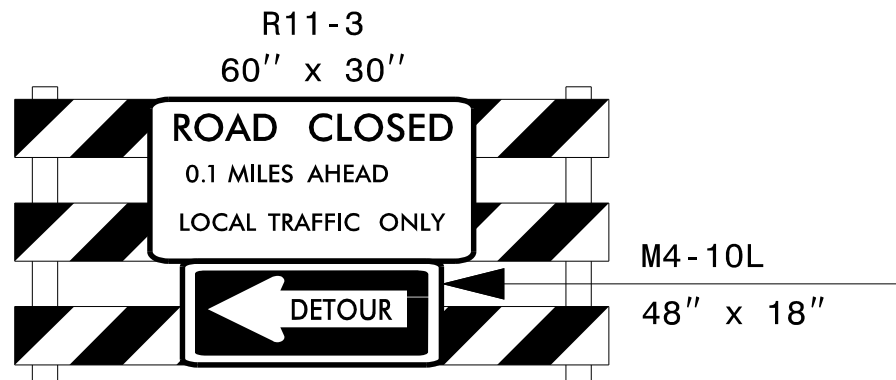
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A



TYPE III BARRICADE

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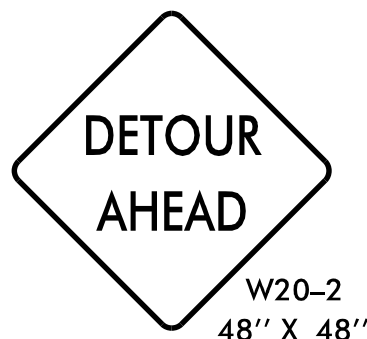


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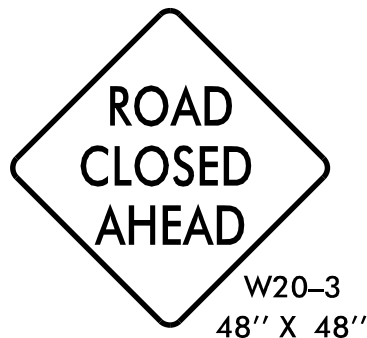
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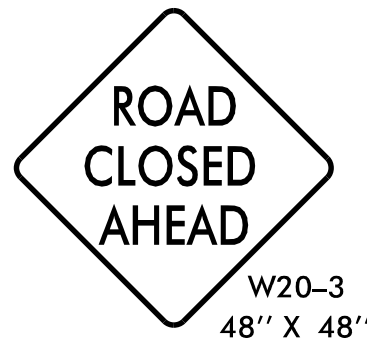
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NEXT LEFT

SP-4L  
42" X 12"

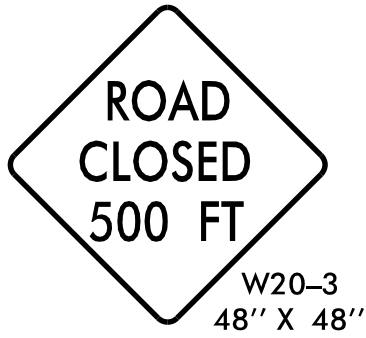
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NEXT RIGHT

SP-4R  
42" X 12"

G

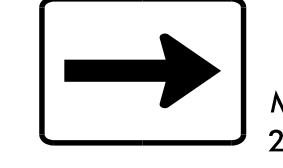


H



DETOUR

LIVERPOOL  
PKWY.  
DETOUR  
30" X 18"



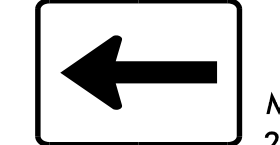
M4-8  
24" X 12"

I



DETOUR

M4-8  
24" X 12"



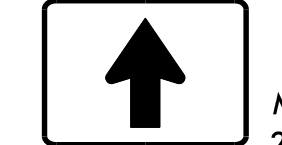
M6-1 L  
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J



DETOUR

M4-8  
24" X 12"



M6-3  
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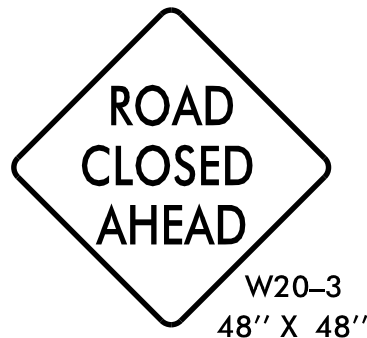
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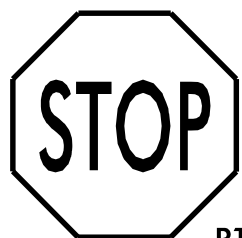


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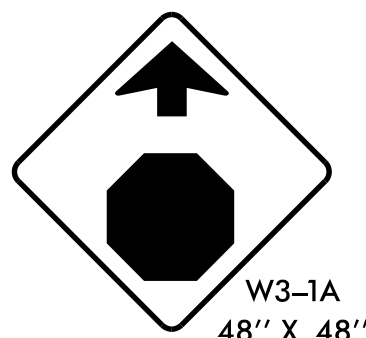


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N

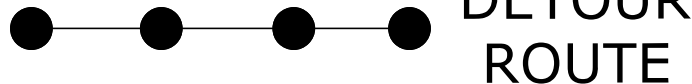


O



P

### LEGEND

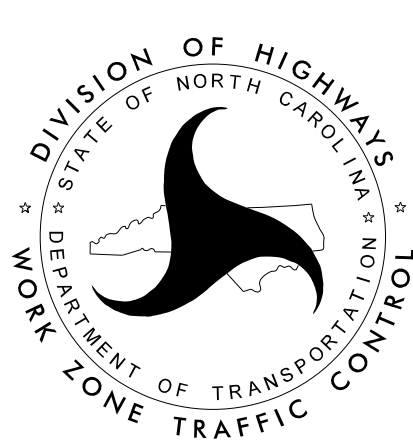


DETOUR  
ROUTE

APPROVED: Allison C. Drake  
DATE: 9/11/2025

SEAL  
042357  
ENGINEER  
ALLISON C. DRAKE

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



PHASE V STEP 1  
LIVERPOOL  
PKWY DETOUR

| PROJ. REFERENCE NO. | SHEET NO. |
|---------------------|-----------|
| U - 5906            | TMP - 3   |

PHASING NOTES

NOTES:

'RSD' REFERS TO NCDOT ROADWAY STANDARD DRAWINGS.

COMPLETE ANY PROPOSED OR TEMPORARY WIDENING IN SUCH A MATTER THAT PONDING OF WATER WILL NOT OCCUR IN THE TRAVEL LANE.

ALL PROPOSED ASPHALT ROADWAY CONSTRUCTION IS UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE UNLESS OTHERWISE NOTED.

MAINTAIN DRIVEWAY ACCESS AND PEDESTRIAN ACCESS AT ALL TIMES.

PHASE I STEP 1:

USING RSD 1101.01 (SHEETS 2 AND 3 OF 3), PLACE ALL ADVANCE WARNING SIGNS.

INTERMEDIATE CONTRACT TIME (ICT): COMPLETE THE WORK REQUIRED IN PHASE I STEP 2, PHASE I STEP 3, PHASE I STEP 4, AND PHASE II STEP 1 IN ONE HUNDRED EIGHTY (180) CONSECUTIVE CALENDAR DAYS.

PHASE I STEP 2:

USING RSD 1101.02 (SHEET 1 OF 19), REMOVE THE EXISTING CONCRETE MONOLITHIC ISLAND, AND PLACE TEMPORARY PAVEMENT MARKINGS ALONG -Y1- (ONE NORMAN DR.). INSTALL THE TEMPORARY SIGNAL AT THE INTERSECTION OF -L- (W. CATAWBA AVE.) AND -Y1- (ONE NORMAN DR.)/-Y1A- (KNOX RD.) AND SHIFT -Y1- (ONE NORMAN DR.) TRAFFIC INTO A TEMPORARY PATTERN. USING RSD 1101.02 (SHEET 1 OF 19) CONSTRUCT THE PROPOSED WIDENING ALONG RT OF -Y1- (ONE NORMAN DR.) AND BEGIN CONSTRUCTION OF PROPOSED DRAINAGE ALONG -Y1- (ONE NORMAN DR.) (SEE SHEET TMP-4). CONSTRUCT IN A MANNER AS TO MAINTAIN PEDESTRIAN ACCESS ON ONE SIDE OF THE ROADWAY AND TO MAINTAIN DRIVEWAY ACCESS AT ALL TIMES.

- Y1- STA. 14+91± TO -Y1- STA. 15+26± (ISLAND REMOVAL)
- Y1- STA. 12+23± RT TO -Y1- STA. 15+44± RT

USING RSD 1101.03 (SHEETS 1 AND 2 OF 9) AND AN OFFSITE DETOUR ALONG -L- (W. CATAWBA AVE.) AND -Y6A-/-Y6B- (TORRENCE CHAPEL RD.) (SEE DETOUR SHEET TMP-2) CONSTRUCT THE FOLLOWING INCLUDING PROPOSED DRAINAGE (SEE SHEET TMP-4):

- Y1A- STA 10+25± TO -Y1A- STA 18+00±
- Y2- STA 12+12± TO -Y1A- TIE-IN
- Y2A- STA 9+60± TO -Y1A- TIE-IN

USING RSD 1101.02 (SHEET 1 OF 19), FLAGGERS, AND LANE CLOSURES, PLACE TEMPORARY MARKINGS IN THE PROPOSED PATTERN (SEE PMP PLANS) ALONG -Y2- (KNOX RD. REALIGNMENT), -Y2A- (HARKEN DR.) AND A PORTION OF -Y1A- (KNOX RD.) AND SHIFT TRAFFIC.

PHASE I STEP 3:

WITH TRAFFIC SHIFTED INTO THE PROPOSED PATTERN, USE RSD 1101.02 (SHEETS 1 AND 3 OF 19) TO PERFORM THE FOLLOWING:  
PLACE TEMPORARY PAVEMENT MARKINGS ALONG -Y1- (ONE NORMAN DR.) AND SHIFT -Y1- (ONE NORMAN DR.) TRAFFIC INTO A TEMPORARY PATTERN.  
CONSTRUCT THE PROPOSED WIDENING ALONG LT OF -Y1- (ONE NORMAN DR.), COMPLETE CONSTRUCTION OF PROPOSED DRAINAGE ALONG -Y1- (ONE NORMAN DR.), AND STAGE CONSTRUCT THE PROPOSED CURB RAMPS ALONG -Y1A- ( KNOX RD.) AT THE -L- (W CATAWBA AVE.) INTERSECTION (SEE SHEET TMP-5). USING RSD 1101.02 (SHEET 3 OF 19), FLAGGERS, AND LANE CLOSURES, CONSTRUCT IN A MANNER AS TO MAINTAIN PEDESTRIAN ACCESS ON ONE SIDE OF THE ROADWAY AND TO MAINTAIN DRIVEWAY ACCESS AT ALL TIMES.

- Y1- STA. 12+50± LT TO -Y1- STA. 15+43± LT

USING RSD 1101.03 (SHEETS 1 AND 2 OF 9), AN OFFSITE DETOUR ALONG -L- (W. CATAWBA AVE.) AND -Y6A-/-Y6B- (TORRENCE CHAPEL RD.) (SEE DETOUR SHEET TMP-2A), CONSTRUCT THE FOLLOWING INCLUDING PROPOSED DRAINAGE (SEE SHEETS TMP-5 AND TMP-6):

- Y1A- STA 18+00± TO -Y1A- STA 32+43±

USING RSD 1101.02 (SHEETS 1 AND 3 OF 19), FLAGGERS, AND LANE CLOSURES, INSTALL THE PROPOSED SIGNAL AT THE INTERSECTION OF -L- (W. CATAWBA AVE.) AND -Y1- (ONE NORMAN DR.)/-Y1A- (KNOX RD.) AND BAG UNTIL ACTIVATED.

PHASE I STEP 4:

USING RSD 1101.02 (SHEET 1 OF 19), PLACE TEMPORARY MARKINGS IN THE FINAL PATTERN (SEE PMP PLANS) ALONG -Y1- (ONE NORMAN DR.) AND -Y1A- (KNOX RD.) AND SHIFT TRAFFIC ALONG -Y1- (ONE NORMAN DR.) AND PORTIONS OF -Y1A- (KNOX RD.) INTO THE PROPOSED PATTERN. USING RSD 1101.03 (SHEETS 1 AND 2 OF 9) AND AN OFFSITE DETOUR ALONG -L- (W. CATAWBA AVE.) AND -Y6A-/-Y6B- (TORRENCE CHAPEL RD.) (SEE DETOUR SHEET TMP-2B), CONSTRUCT THE FOLLOWING INCLUDING PROPOSED DRAINAGE (SEE SHEET TMP-7):

- Y1A- STA 32+43± TO -Y1A- STA 38+86±

PHASE I STEP 4 CONTINUED:

USING RSD 1101.02 (SHEET 1 OF 19), CONSTRUCT TEMPORARY SIDEWALK ALONG RT OF -Y1A- (KNOX RD.) AWAY FROM TRAFFIC (SEE SHEET TMP-7) (SEE ROADWAY SHEET 2B-9).

- Y1A- STA 39+16± RT TO -Y1A- STA 41+09± RT

PHASE II STEP 1:

USING RSD 1101.02 (SHEET 1 OF 19), PLACE TEMPORARY MARKINGS IN THE FINAL PATTERN (SEE PMP PLANS) AND SHIFT TRAFFIC ALONG THE NEWLY CONSTRUCTED PORTION OF -Y1A- (KNOX RD.) INTO THE PROPOSED PATTERN. WITH -Y3A-/-Y3B- ( TORRENCE CHAPEL RD.) AND -Y1B- (KNOX RD.) TRAFFIC IN EXISTING PATTERN, USE RSD 1101.02 (SHEET 1 OF 19), AN OFF-SITE DETOUR ALONG -Y3A-/-Y6A-/-Y6B- (TORRENCE CHAPEL RD.) AND -L- (W. CATAWBA AVE.) (SEE DETOUR SHEET TMP-2C), AND A TEMPORARY SIDEWALK FOR PEDESTRIANS ALONG RT OF -Y1A- (KNOX RD.) BEGIN CONSTRUCTION OF THE FOLLOWING INCLUDING PROPOSED DRAINAGE (SEE SHEET TMP-8):

- RA1-
- Y1A- STA 37+66± LT TO -RA1- TIE-IN
- Y3B- TIE-IN WITH -RA1- TO -Y3B- STA 14+82± LT

PHASE II STEP 2:

USING RSD 1101.02 (SHEET 1 OF 19) PERFORM THE FOLLOWING:  
PLACE TEMPORARY PAVEMENT MARKINGS ALONG -Y1A-/-Y1B- (KNOX RD.), -RA1-, AND -Y3A-/-Y3B- (TORRENCE CHAPEL RD.), SHIFT -Y3A- (TORRENCE CHAPEL RD.) AND -Y1B- (KNOX RD.) TRAFFIC INTO A TEMPORARY PATTERN, AND SHIFT TRAFFIC ALONG PROPOSED -Y3B- (TORRENCE CHAPEL RD.), -RA1-, AND -Y1A- (KNOX RD.) INTO A TEMPORARY TWO-LANE, TWO-WAY PATTERN, AWAY FROM CONSTRUCTION. USING A PEDESTRIAN DETOUR ALONG LT OF -Y3B- (TORRENCE CHAPEL RD.), COMPLETE CONSTRUCTION OF THE FOLLOWING INCLUDING PROPOSED DRAINAGE (SEE SHEET TMP-9):

- RA1-
- Y1A- STA 39+16± RT TO -RA1- TIE-IN
- Y1B- LT TIE-IN WITH -RA1- TO -Y1B- STA 14+46± LT
- Y3A- STA 11+62± TO -RA1- TIE-IN
- Y3B- STA 12+20± RT TO -Y3B- STA 14+10± RT

PHASE II STEP 3:

USING RSD 1101.02 (SHEETS 1 AND 18 OF 19), CONSTRUCT THE FOLLOWING, INCLUDING WEDGING, TRUCK APRONS, MONO. ISLANDS, PAVEMENT REMOVAL, PROPOSED DRAINAGE, AND MILLING AND RESURFACING WORK (SEE SHEET TMP-10):

- RA1-
- Y3A- STA 11+76± TO -Y3A- STA 14+28±
- Y1B- STA 10+62± RT TO -Y1B- STA 14+46± RT
- Y1A- STA 39+56± TO -Y1A- STA 40+40±
- Y3B- STA 10+64± TO -Y3B- STA 11+16±
- Y6B- STA 15+00± TO -Y3A- STA 11+76± (MILLING & RESURFACING)

ONCE CONSTRUCTION IN THIS PHASE IS COMPLETE, USE 1101.02 (SHEETS 1 AND 18 OF 19) TO PLACE TEMPORARY MARKINGS IN FINAL PATTERN ALONG -RA1-, -Y1A-/-Y1B- (KNOX RD.), AND -Y3A-/-Y3B- (TORRENCE CHAPEL RD.) AND SHIFT TRAFFIC INTO THE FINAL PATTERN.

RS&H 1520 SOUTH BOULEVARD, SUITE 200  
CHARLOTTE, NC 28203  
NC FIRM LICENSE No: F-0493

|                                                                                                                                                                                                                                           |                                                                                                                                                         |                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <div>APPROVED: <div>Signed by: Alison C. Drake 7F8B99ACE5B442E</div></div> <div>DATE: 9/26/2025</div> <div><div>SEAL 042357 ENGINEER ALISON C. DRAKE</div></div> <div>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</div> | <div><div>DIVISION OF HIGHWAYS</div><div>STATE OF NORTH CAROLINA</div><div>DEPARTMENT OF TRANSPORTATION</div><div>WORK ZONE TRAFFIC CONTROL</div></div> | <div>TEMPORARY TRAFFIC CONTROL PHASING</div> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|

| PROJ. REFERENCE NO. | SHEET NO. |
|---------------------|-----------|
| U - 5906            | TMP - 3A  |

PHASING NOTES

PHASE III STEP 1:

INSTALL PEDESTRIAN CHANNELIZATION DEVICES ALONG THE CONSTRUCTED PORTION OF -RA2- AND -Y6A-/-Y6B- (TORRENCE CHAPEL RD.) FOR THE PEDESTRIAN DETOUR (SEE SHEET TMP-14)

USING RSD 1101.02 (SHEETS 1 OF 19), CONSTRUCT THE FOLLOWING, INCLUDING WEDGING, TRUCK APRONS, MONO. ISLANDS, PAVEMENT REMOVAL, PROPOSED DRAINAGE, AND MILLING AND RESURFACING WORK (SEE SHEETS TMP-11 AND TMP-12):

- Y6A- STA 11+49± RT TO -Y6A- STA 14+50± RT
- Y6A- STA 13+25± LT TO -Y6A- STA 14+50± LT
- Y6B- STA 13+78± TO -Y6B- STA 14+47±
- DRIVE2- STA 10+29± TO -DRIVE2- STA 11+55±
- TEMPDW- STA 10+20± TO -TEMPDW- STA 12+30±
- Y6B- STA 14+47± TO -Y6B- STA 15+00± (MILLING & RESURFACING)

INTERMEDIATE CONTRACT TIME (ICT): COMPLETE THE WORK REQUIRED IN PHASE III STEP 2, AND PHASE III STEP 3 IN ONE HUNDRED THIRTY FIVE (135) CONSECUTIVE CALENDAR DAYS. THIS WORK CANNOT BEGIN UNTIL THE COMPLETION OF PHASE II STEP 2.

PHASE III STEP 2:

OPEN -TEMPDW- TO TRAFFIC. USING RSD 1101.03 (SHEET 1 OF 9) AND AN OFF-SITE DETOUR ALONG -Y1A- (KNOX RD) AND -L- (W. CATAWBA AVE.) (SEE DETOUR SHEET TMP-2D), BEGIN CONSTRUCTION OF THE FOLLOWING INCLUDING PROPOSED DRAINAGE (SEE SHEET TMP-13):

- RA2-
- Y6A- STA 14+50± LT TO -RA2- TIE-IN
- DRIVE3- STA 10+20± TO -RA2- TIE-IN
- RA2- TIE-IN TO -Y6B- STA 13+77± LT

PHASE III STEP 3:

USING RSD 1101.03 (SHEET 1 OF 9), AN OFF-SITE DETOUR ALONG -Y1A-(KNOX RD.) AND -L- (W. CATAWBA AVE.) (SEE DETOUR SHEET TMP-2D), AND A PEDESTRIAN DETOUR ALONG THE PROPOSED ROADWAY, COMPLETE CONSTRUCTION OF THE FOLLOWING INCLUDING PROPOSED DRAINAGE (SEE SHEET TMP-14):

- RA2-
- Y6A- STA 13+25± TO -Y6A- STA 14+50± (PROP. MEDIAN ISLAND)
- Y6A- STA 14+50± RT TO -RA2- TIE-IN
- RA2- TIE-IN TO -Y6B- STA 13+85± RT
- RA2- TIE-IN TO -DRIVE4- STA 11+20±

ONCE CONSTRUCTION IN THIS PHASE IS COMPLETE, USE 1101.02 (SHEETS 1 AND 18 OF 19) TO PLACE TEMPORARY MARKINGS IN FINAL PATTERN ALONG -RA2-, -Y6A-/-Y6B- (TORRENCE CHAPEL RD.), -DRIVE3-, AND -DRIVE4-, SHIFT TRAFFIC INTO THE FINAL PATTERN, AND RESTORE -TEMPDW- TO THE EXISTING CONDITION, INCLUDING PAVEMENT MARKING REMOVAL AND REMOVAL OF THE BARRIERS ALONG THE OUTSIDE OF -TEMPDW-.

PHASE IV STEP 1:

USING RSD 1101.02 (SHEET 1 OF 19), CONSTRUCT TEMPORARY PAVEMENT ALONG RT OF -Y5- (CHARTWELL CTR. DR.) AND REMOVE EXISTING CONCRETE ISLAND. (SEE SHEET TMP-15):

- Y4B- STA 10+76± RT TO -Y5- STA 11+62± RT (TEMP. PAVEMENT)
- Y4B- STA 10+10± TO -Y4B- STA 10+35± (EXIST. ISLAND REMOVAL)

INTERMEDIATE CONTRACT TIME (ICT): COMPLETE THE WORK REQUIRED IN PHASE IV STEP 2, AND PHASE V STEP 1 IN ONE HUNDRED (100) CONSECUTIVE CALENDAR DAYS. THIS WORK CANNOT BEGIN UNTIL THE COMPLETION OF PHASE III STEP 3.

PHASE IV STEP 2:

USING RSD 1101.03 (SHEETS 1 AND 2 OF 9) AND AN OFF-SITE DETOUR ALONG -L- (W. CATAWBA AVE.), -Y1- (ONE NORMAN DR.), AND SEFTON PARK RD (SEE DETOUR SHEET TMP-2E), BEGIN CONSTRUCTION OF THE FOLLOWING INCLUDING PROPOSED DRAINAGE (SEE SHEET TMP-16):

- RA3-
- Y4A- STA 12+00± TO -RA3- TIE-IN
- Y5- RT TIE-IN WITH -RA3- TO -Y5- STA 12+00± RT
- DRIVE1- LT TIE-IN WITH -RA3- TO -DRIVE- STA 11+55± LT

PHASE V STEP 1:

USING RSD 1101.02 (SHEET 1 OF 19), PLACE TEMPORARY MARKINGS AND SHIFT TRAFFIC INTO A TWO-LANE, TWO-WAY TRAFFIC PATTERN ALONG -RA3-, -Y4B- (LIVERPOOL PKWY.), -Y5- (CHARTWELL CTR. DR.) AND -DRIVE1-.

USING RSD 1101.03 (SHEETS 1 AND 2 OF 9) AND AN OFF-SITE DETOUR ALONG -L- (W. CATAWBA RD.), -Y1- (ONE NORMAN DR.) AND SEFTON PARK RD. (SEE DETOUR SHEET TMP-2F), COMPLETE CONSTRUCTION OF THE FOLLOWING INCLUDING PROPOSED DRAINAGE (SEE SHEETS TMP-17 AND TMP-18):

- RA3-
- RA3- TIE-IN TO -Y4B- STA 13+98±
- RA3- TIE-IN TO -Y5- STA 12+55± LT
- RA3- TIE-IN TO -DRIVE1- STA 11+43± RT

INSTALL AND ACTIVATE THE TEMPORARY SIGNAL AT THE INTERSECTION OF -L- (W. CATAWBA AVE.) AND -Y4B- (LIVERPOOL PKWY.)/-Y6A- (TORRENCE CHAPEL RD.). USING RSD 1101.02 (SHEETS 1 AND 3 OF 19), PLACE TEMPORARY MARKINGS AND SHIFT TRAFFIC ALONG -Y4B- (LIVERPOOL PKWY.) AND -L- (W. CATAWBA AVE.) INTO A TEMPORARY PATTERN. USING RSD 1101.02 (SHEETS 1 AND 3 OF 19) AND NIGHT-TIME LANE CLOSURES, CONSTRUCT THE FOLLOWING INCLUDING PROPOSED DRAINAGE (SEE SHEETS TMP-17 AND TMP-18):

- L- STA 31+65± TO -L- STA 37+50± (NIGHTLY)
- L- TIE-IN TO -RPC- STA 13+07± RT (NIGHTLY)
- Y4B- STA 13+98± TO -L- TIE-IN (OUTSIDE LANES)

-Y4B- (LIVERPOOL PKWY.) AND -L- (W. CATAWBA AVE.) ARE TO BE CONSTRUCTED IN A MANNER AS TO MAINTAIN PEDESTRIAN ACCESS ON ONE SIDE OF THE ROADWAY AT ALL TIMES. BUILD -Y4B- LT OUTSIDE WORK FIRST TO DETOUR PEDESTRIANS TO -Y4B- RT DURING CONSTRUCTION. ONCE -Y4B- LT WORK IS COMPLETE, BUILD -Y4B- RT OUTSIDE WORK AND DETOUR PEDESTRIANS TO -Y4B- LT.

PHASE V STEP 2:

USING RSD 1101.02 (SHEET 3 OF 19), CONSTRUCT THE FOLLOWING (SEE SHEET TMP-20):

- L- STA 36+97± RT TO -L- STA 38+19± RT
- RPC- STA 10+45± LT TO -RPC- STA 12+78± LT

WITH TRAFFIC IN EXISTING PATTERN AND USING RSD 1101.02 (SHEETS 1, 3 AND 18 OF 19), CONSTRUCT THE FOLLOWING PROPOSED MEDIANS ALONG -Y4B- (LIVERPOOL PKWY.) AND -L- (W. CATAWBA AVE.) INCLUDING PROPOSED DRAINAGE. (SEE SHEETS TMP-19 AND TMP-20):

- Y4B- STA 13+98± TO -Y4B- STA 20+43±
- L- STA 33+39± TO -L- STA 37+71±

ONCE CONSTRUCTION IN THIS PHASE IS COMPLETE, USE 1101.02 (SHEETS 1 AND 18 OF 19) TO PLACE TEMPORARY MARKINGS IN FINAL PATTERN ALONG -RA3-, -Y4A-/-Y4B- (LIVERPOOL PKWY.), -DRIVE1-, -L- (W. CATAWBA AVE.) AND -RPC- AND SHIFT TRAFFIC INTO THE FINAL PATTERN.

PHASE VI:

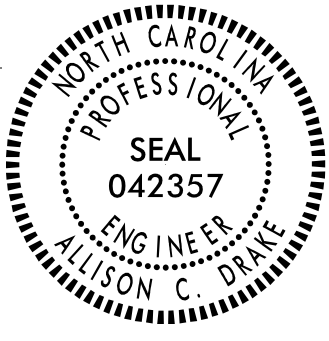
INSTALL AND BAG THE PROPOSED SIGNAL AT THE INTERSECTION OF -L- (W. CATAWBA AVE.) AND -Y4B- (LIVERPOOL PKWY.)/-Y6A- (TORRENCE CHAPEL RD.). PLACE REMAINING TEMPORARY MARKINGS IN FINAL PATTERN, SHIFT TRAFFIC INTO THE FINAL PATTERN AND ACTIVATE SIGNAL. USING RSD 1101.02 (SHEETS 1 AND 3 OF 19), PLACE FINAL LAYER OF SURFACE COURSE, FINAL PAVEMENT MARKINGS AND MARKERS ON ALL ROADWAYS WITHIN THE PROJECT LIMITS. PLACE ALL TRAFFIC IN THE FINAL PATTERN. REMOVE ALL TRAFFIC CONTROL DEVICES FROM THE PROJECT LIMITS.

RS&H 1520 SOUTH BOULEVARD, SUITE 200  
CHARLOTTE, NC 28203  
NC FIRM LICENSE No: F-0493

Signed by:  
*Allison C. Drake*

APPROVED: \_\_\_\_\_

DATE: 9/26/2025

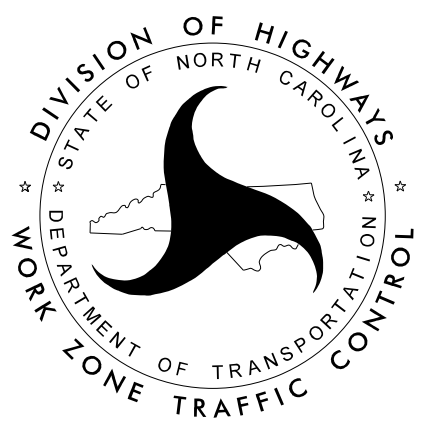
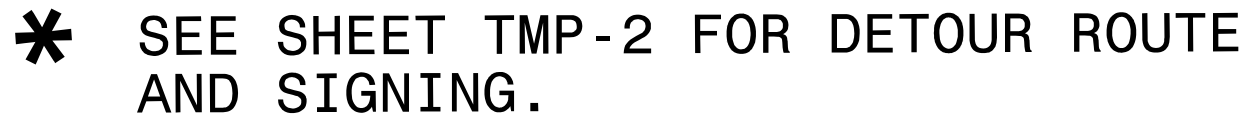


DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



TEMPORARY  
TRAFFIC CONTROL  
PHASING

**RS&H** 1520 SOUTH BOULEVARD, SUITE 200  
CHARLOTTE, NC 28203  
NC FIRM LICENSE No: F-0493

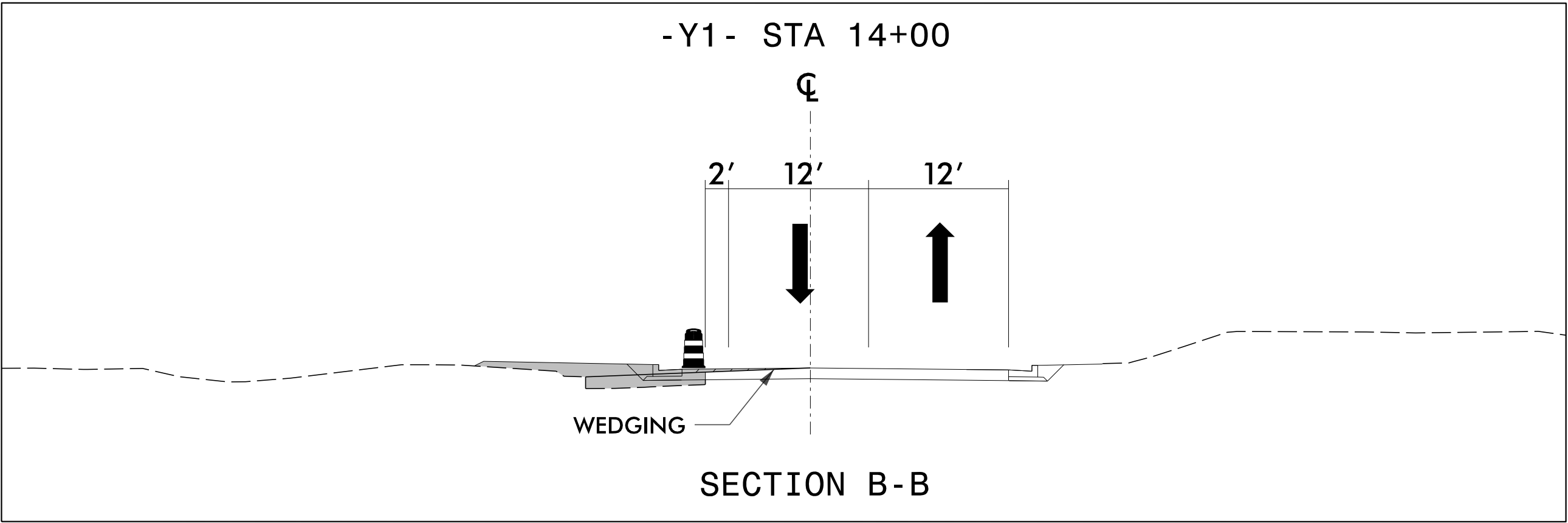
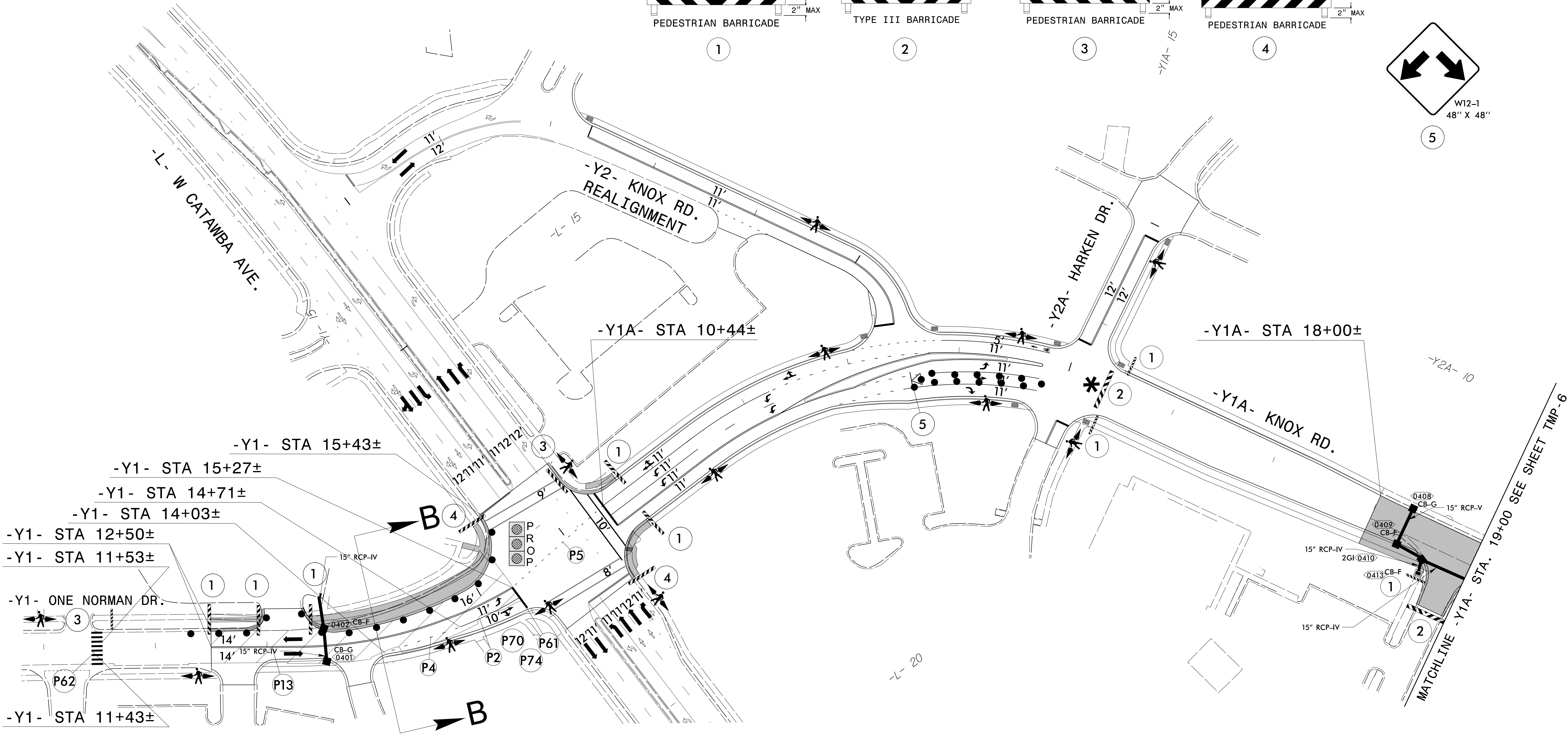
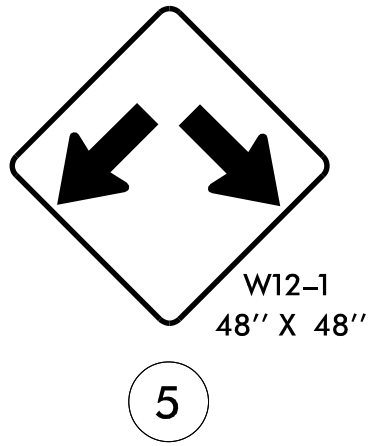
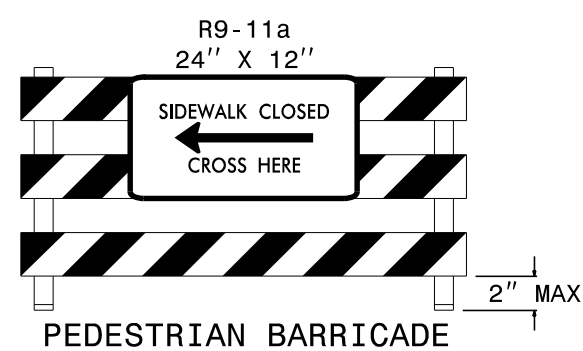
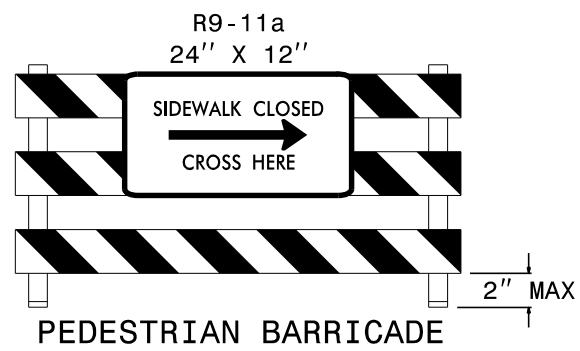
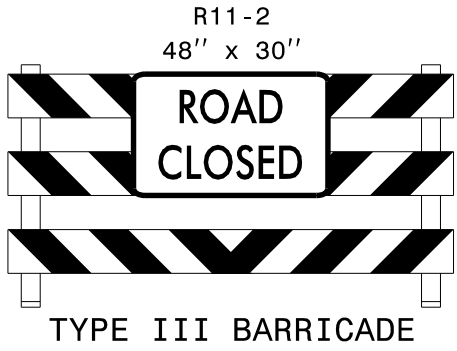
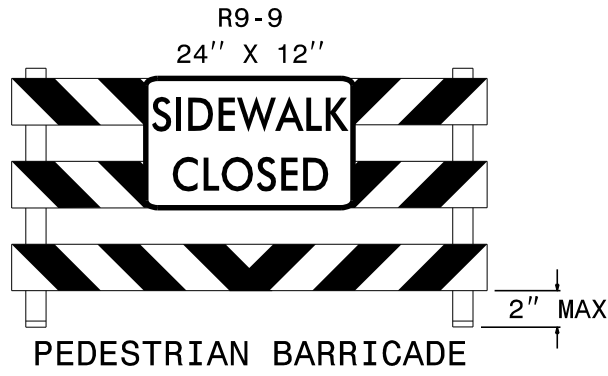


PHASE I  
STEP 2  
DESIGN

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

| PROJ. REFERENCE NO. | SHEET NO. |
|---------------------|-----------|
| U-5906              | TMP-5     |

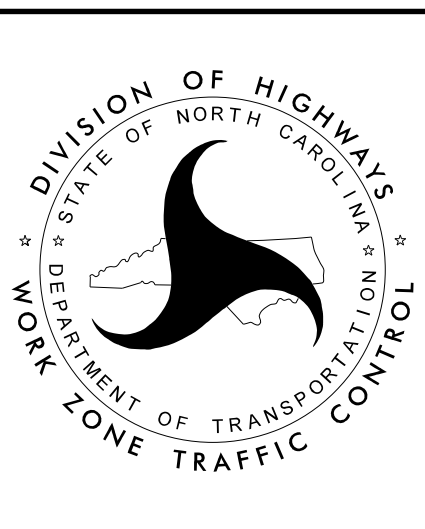
NOTE: SEE PAVEMENT MARKING SHEET PMP-2 FOR TEMPORARY PAINT PAVEMENT MARKINGS IN FINAL PATTERN.



\* SEE SHEET TMP-2A FOR DETOUR ROUTE AND SIGNING.

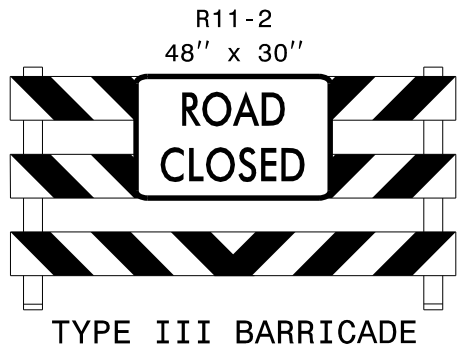
**RS&H** 1520 SOUTH BOULEVARD, SUITE 200  
CHARLOTTE, NC 28203  
NC FIRM LICENSE No: F-0493

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| APPROVED:                                                        |           |
| DATE:                                                            | 9/11/2025 |
|                                                                  |           |
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PHASE I  
STEP 3  
DESIGN

| PROJ. REFERENCE NO. | SHEET NO. |
|---------------------|-----------|
| U - 5906            | TMP - 6   |

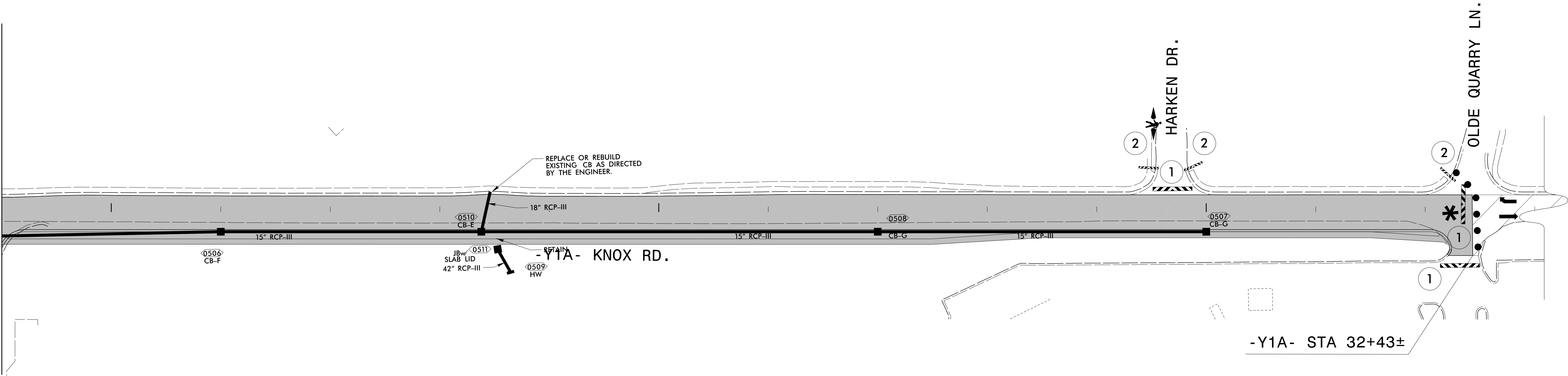


1



2

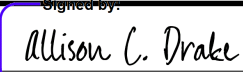
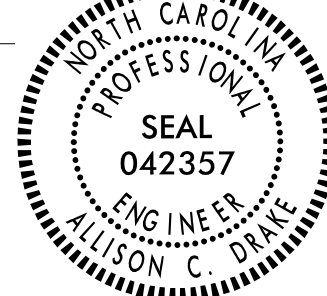
MATCHLINE -Y1A- STA. 19+00 SEE SHEET TMP-5

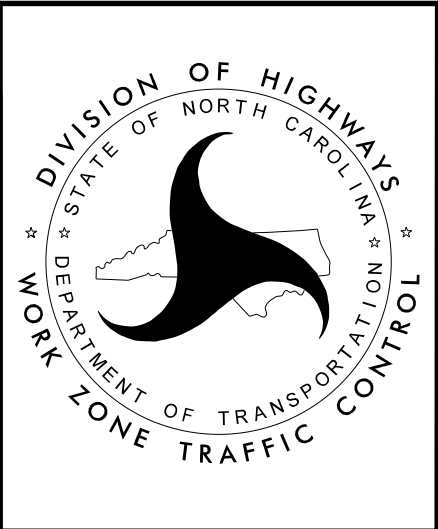


-Y1A- STA 32+43±

\* SEE SHEET TMP-2A FOR DETOUR ROUTE AND SIGNING.

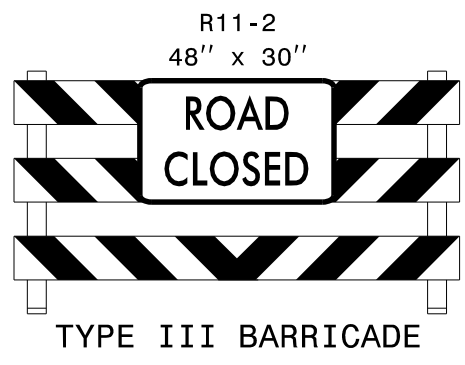
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| APPROVED: _____                                                                       |  |
| DATE: 9/11/2025                                                                       |                                                                                       |
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| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED                      |                                                                                       |

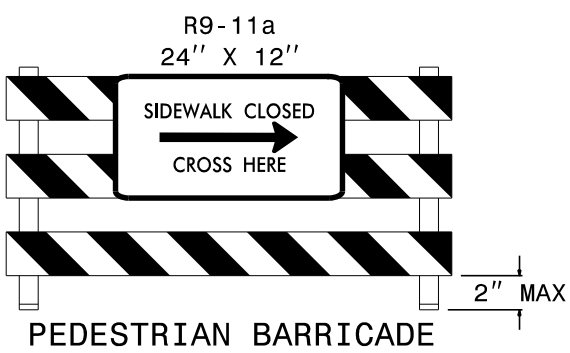


PHASE I  
STEP 3  
DESIGN

| PROJ. REFERENCE NO. | SHEET NO. |
|---------------------|-----------|
| U-5906              | TMP-7     |



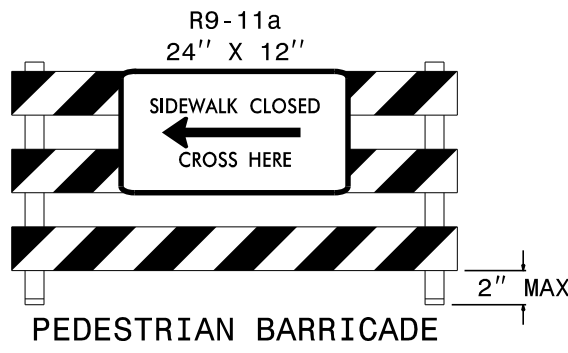
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2

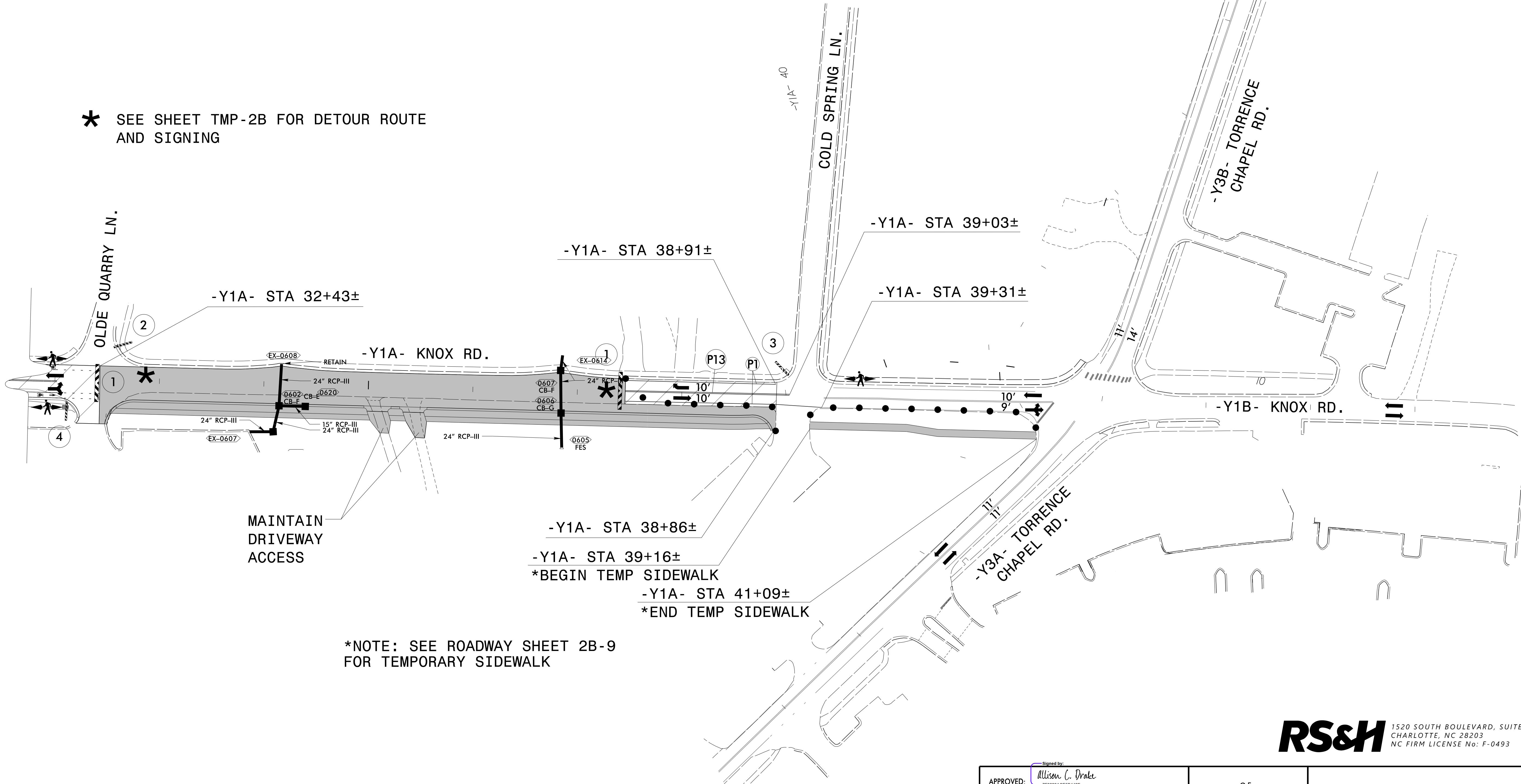


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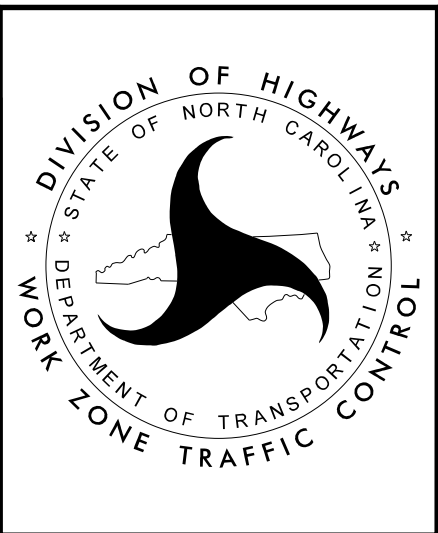
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★ SEE SHEET TMP-2B FOR DETOUR ROUTE  
AND SIGNING



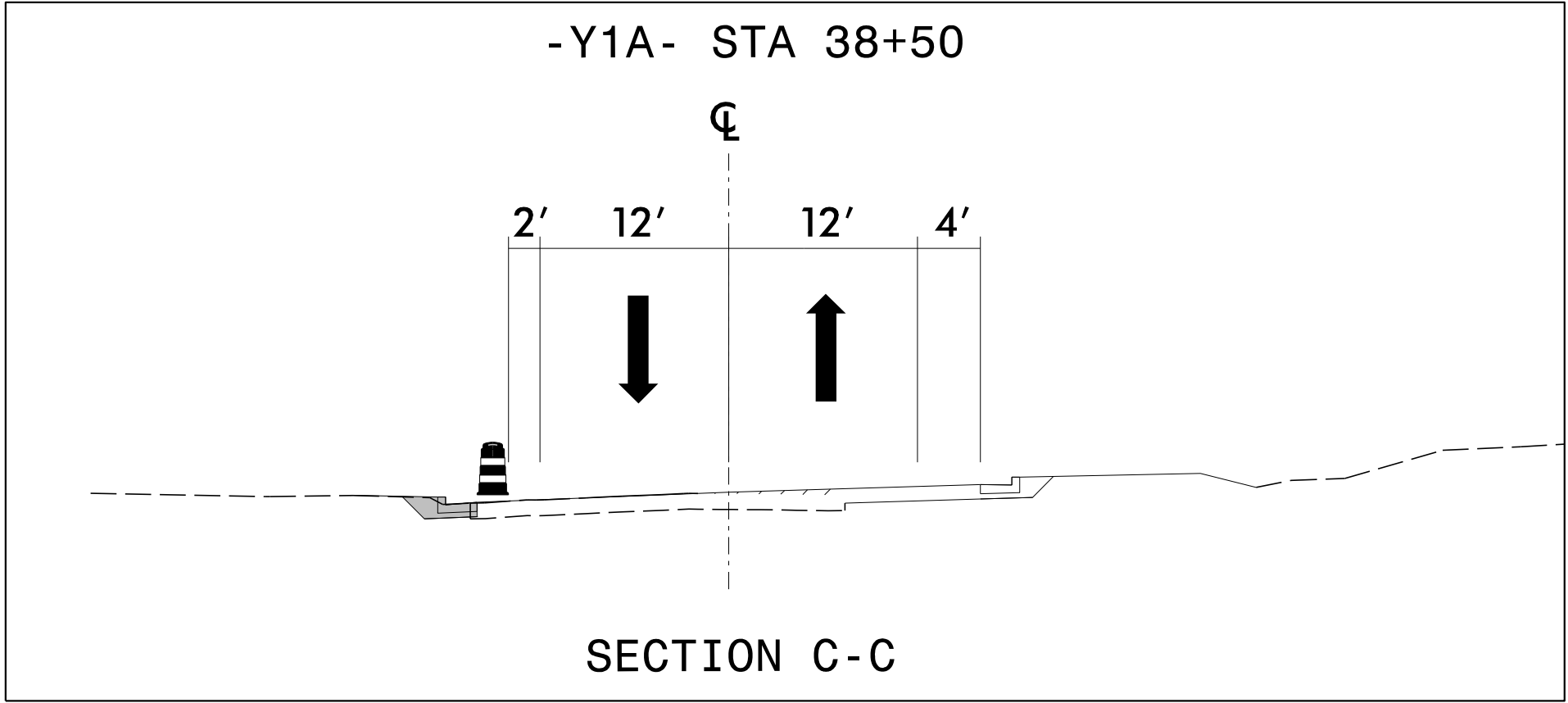
**RS&H** 1520 SOUTH BOULEVARD, SUITE 200  
CHARLOTTE, NC 28203  
NC FIRM LICENSE No: F-0493

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|------------------------------------------------------------------|--------------------------------------------------------------|
| APPROVED:                                                        | Signed by:<br><i>Allison C. Drake</i><br>TC0660A0CE00403E... |
| DATE:                                                            | 9/26/2025                                                    |
|                                                                  |                                                              |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED |                                                              |

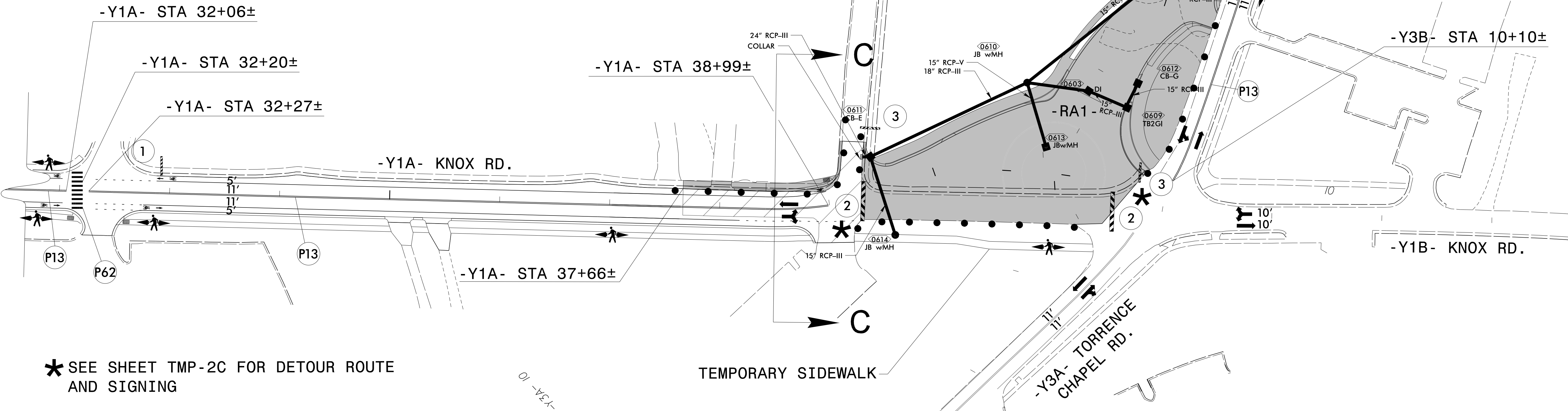


PHASE I  
STEP 4  
DESIGN

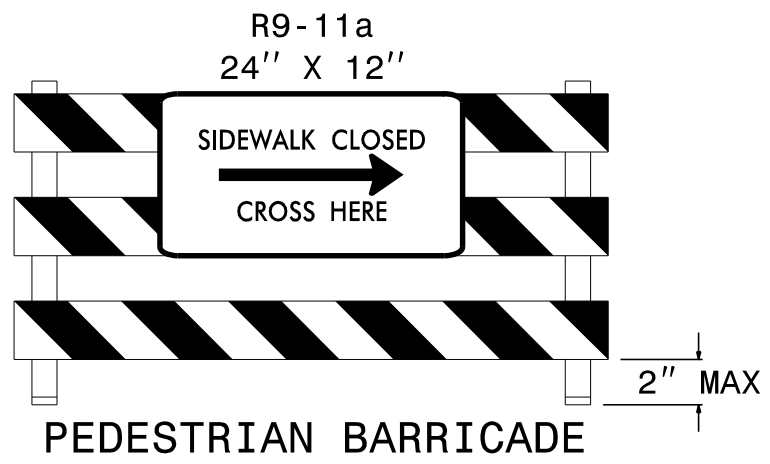
| PROJ. REFERENCE NO. | SHEET NO. |
|---------------------|-----------|
| U-5906              | TMP-8     |



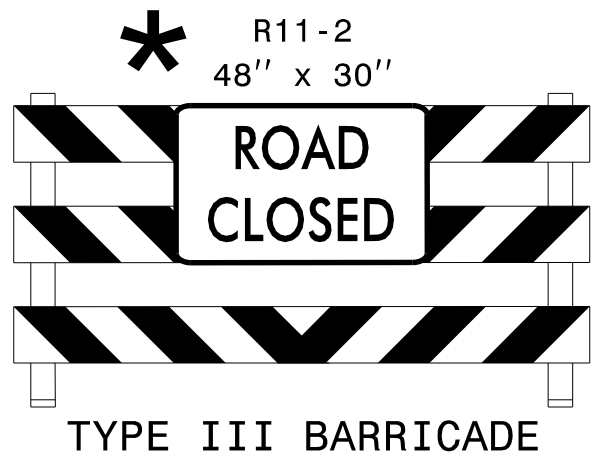
NOTE: SEE PAVEMENT MARKING SHEET PMP-4 FOR TEMPORARY PAINT PAVEMENT MARKINGS IN FINAL PATTERN.



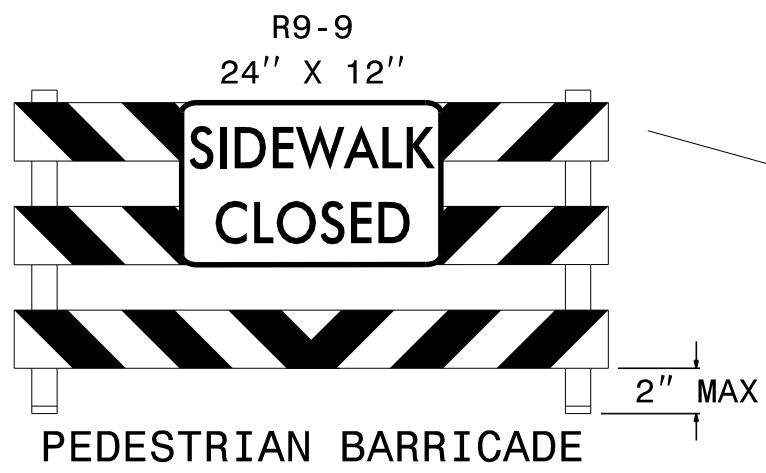
\* SEE SHEET TMP-2C FOR DETOUR ROUTE AND SIGNING



1



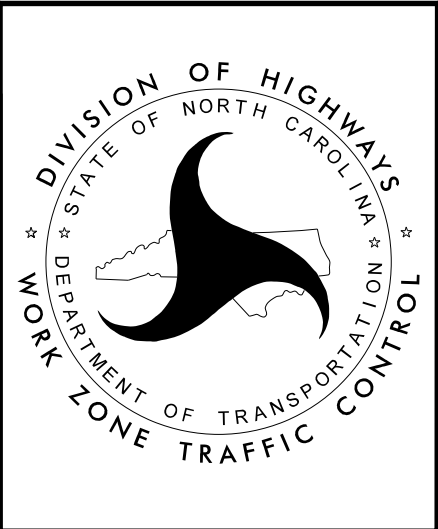
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3

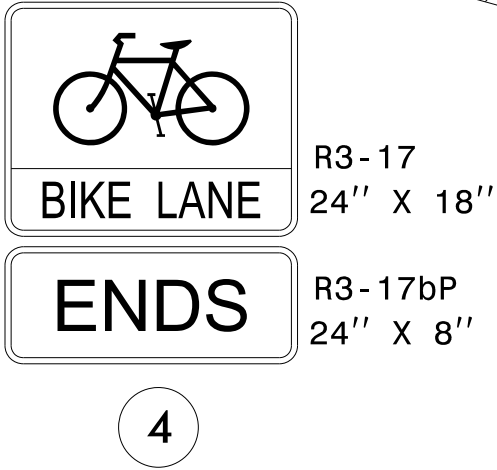
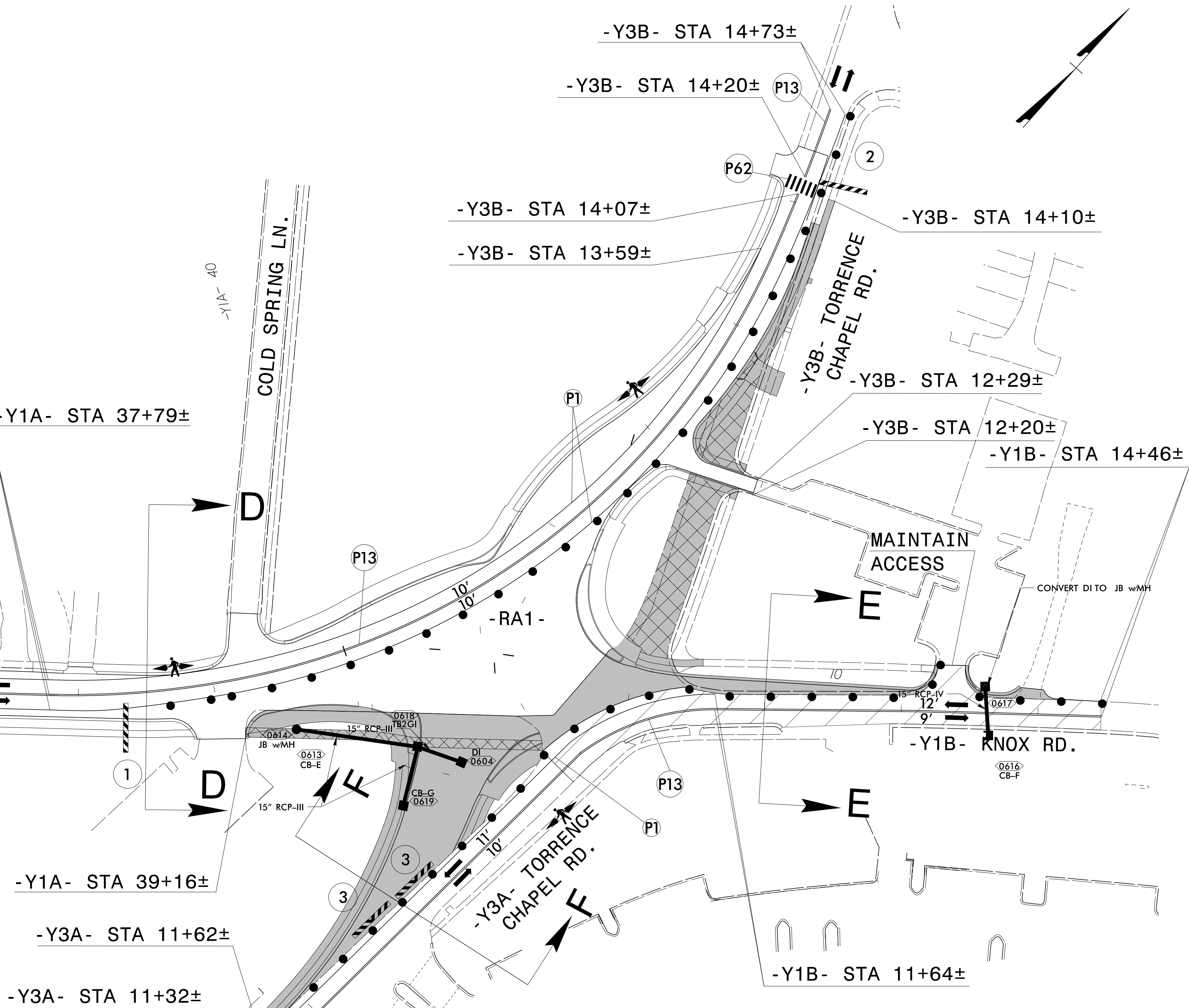
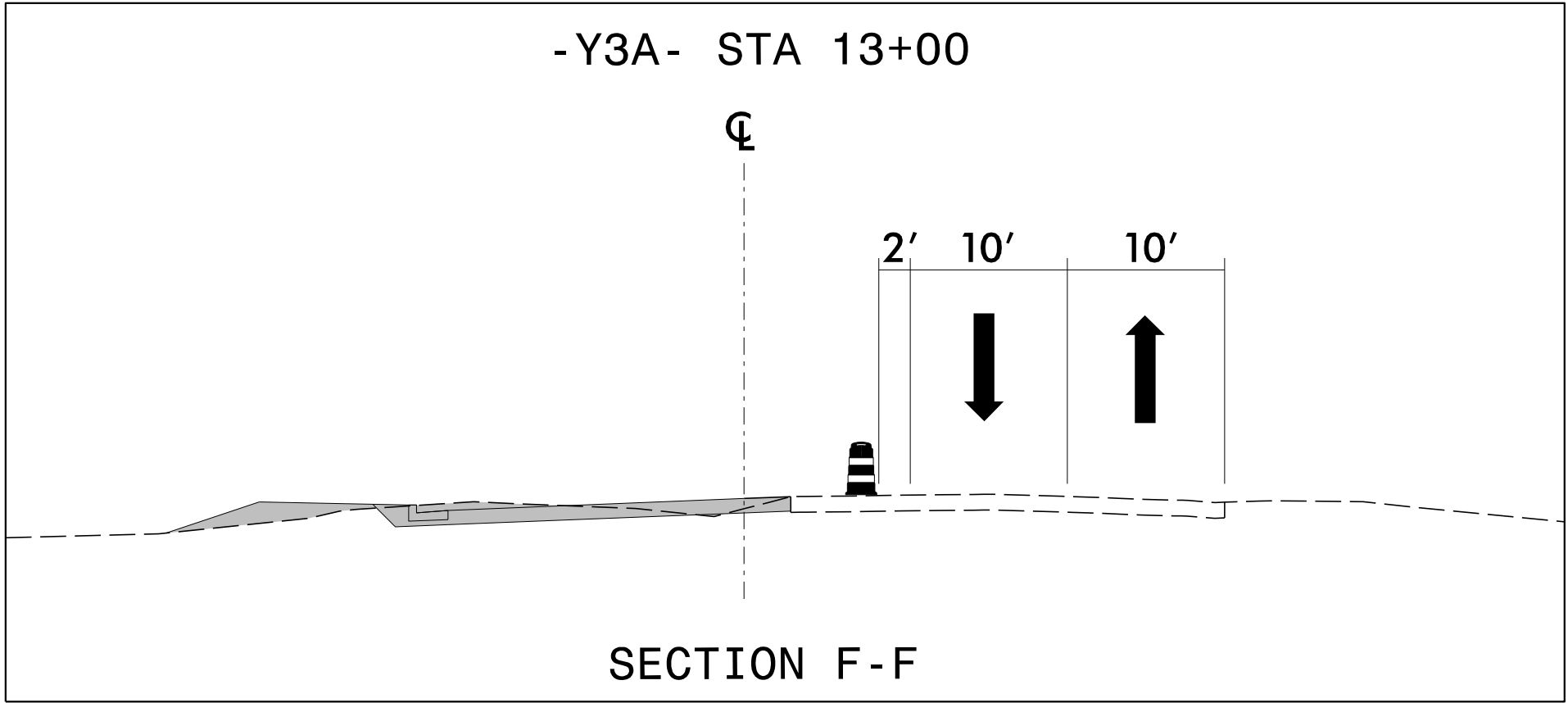
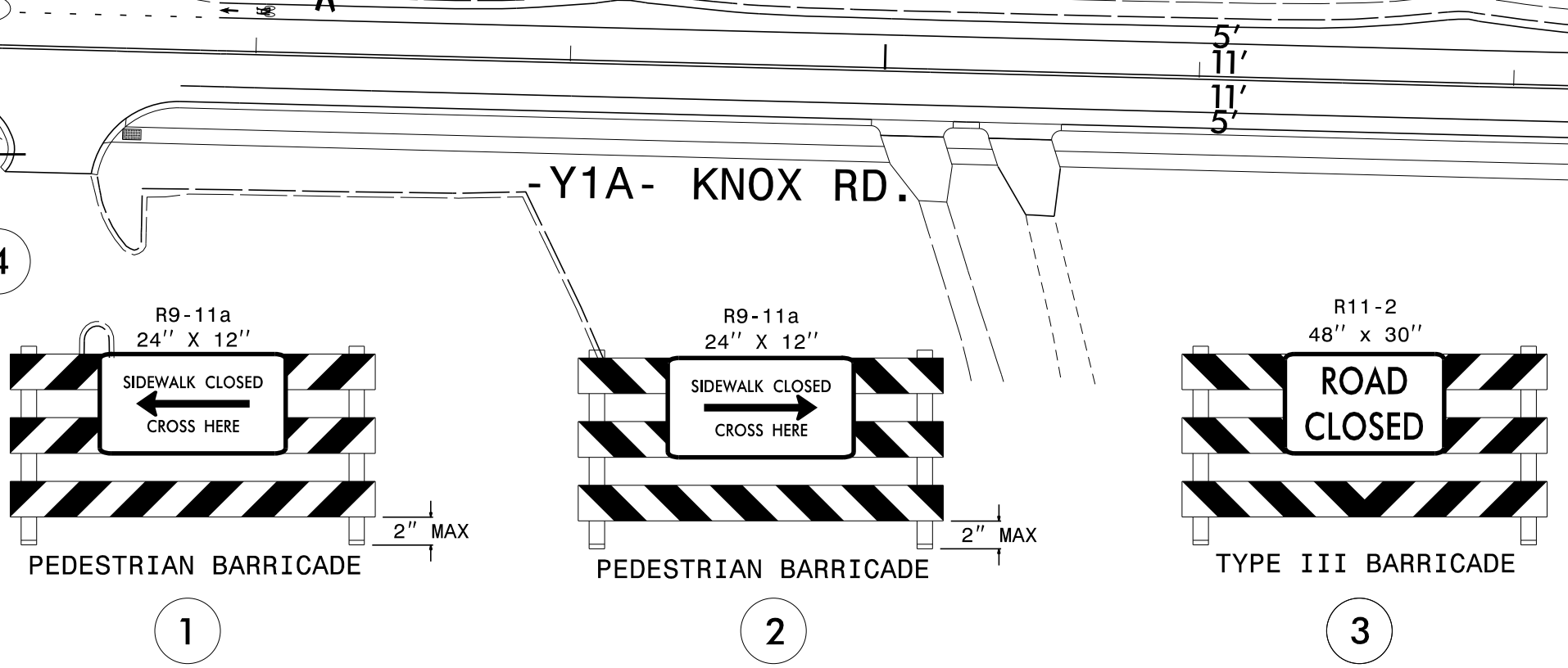
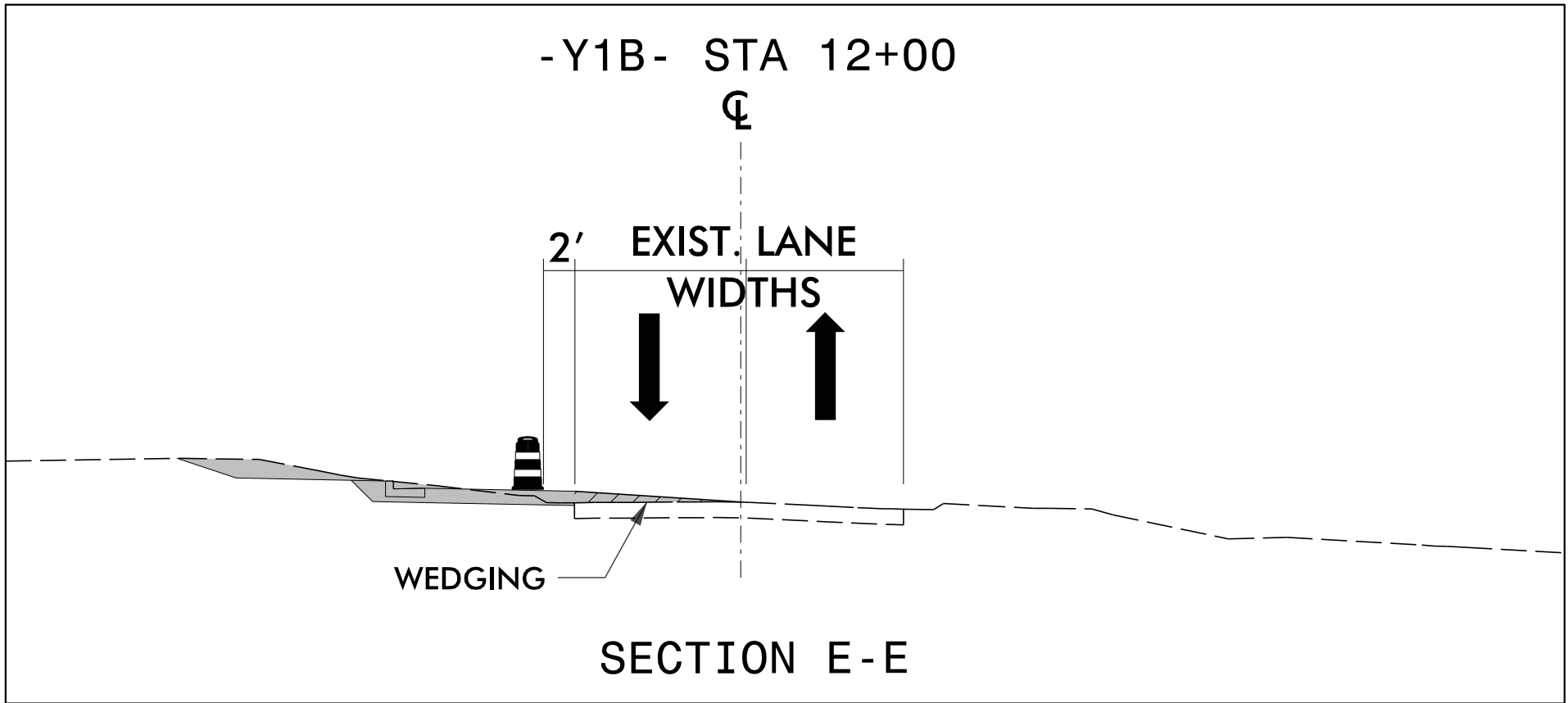
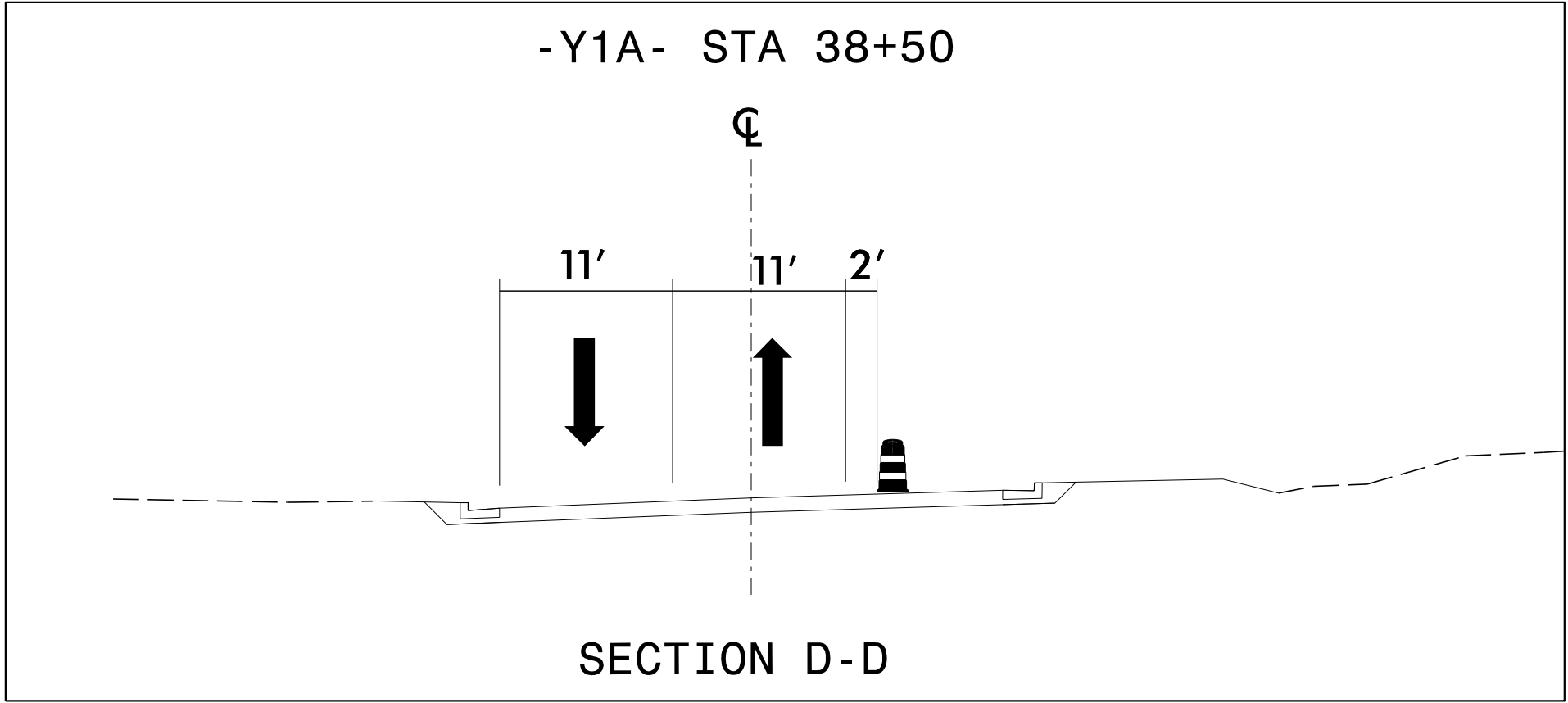
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CHARLOTTE, NC 28203  
NC FIRM LICENSE No: F-0493

|                                                                  |                                                             |
|------------------------------------------------------------------|-------------------------------------------------------------|
| APPROVED:                                                        | Signed by:<br><i>Allison C. Drake</i><br>7F8B99ACE6B442E... |
| DATE:                                                            | 9/11/2025                                                   |
|                                                                  |                                                             |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED |                                                             |

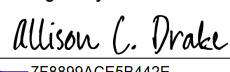


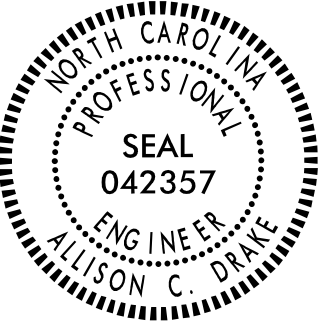
PHASE II  
STEP 1  
DESIGN

| PROJ. REFERENCE NO. | SHEET NO. |
|---------------------|-----------|
| U-5906              | TMP-9     |

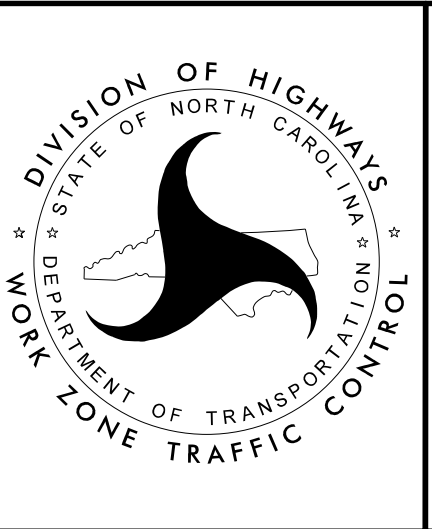


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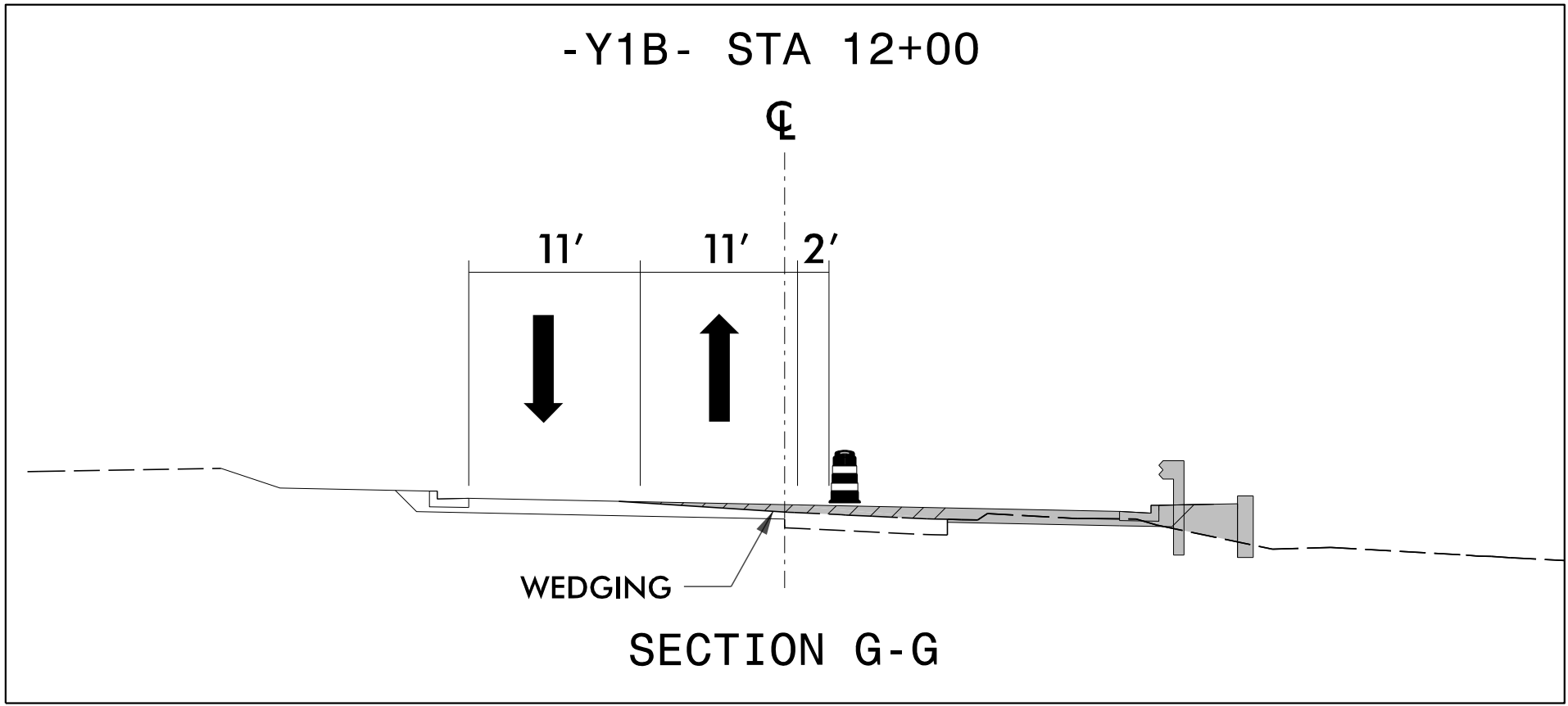


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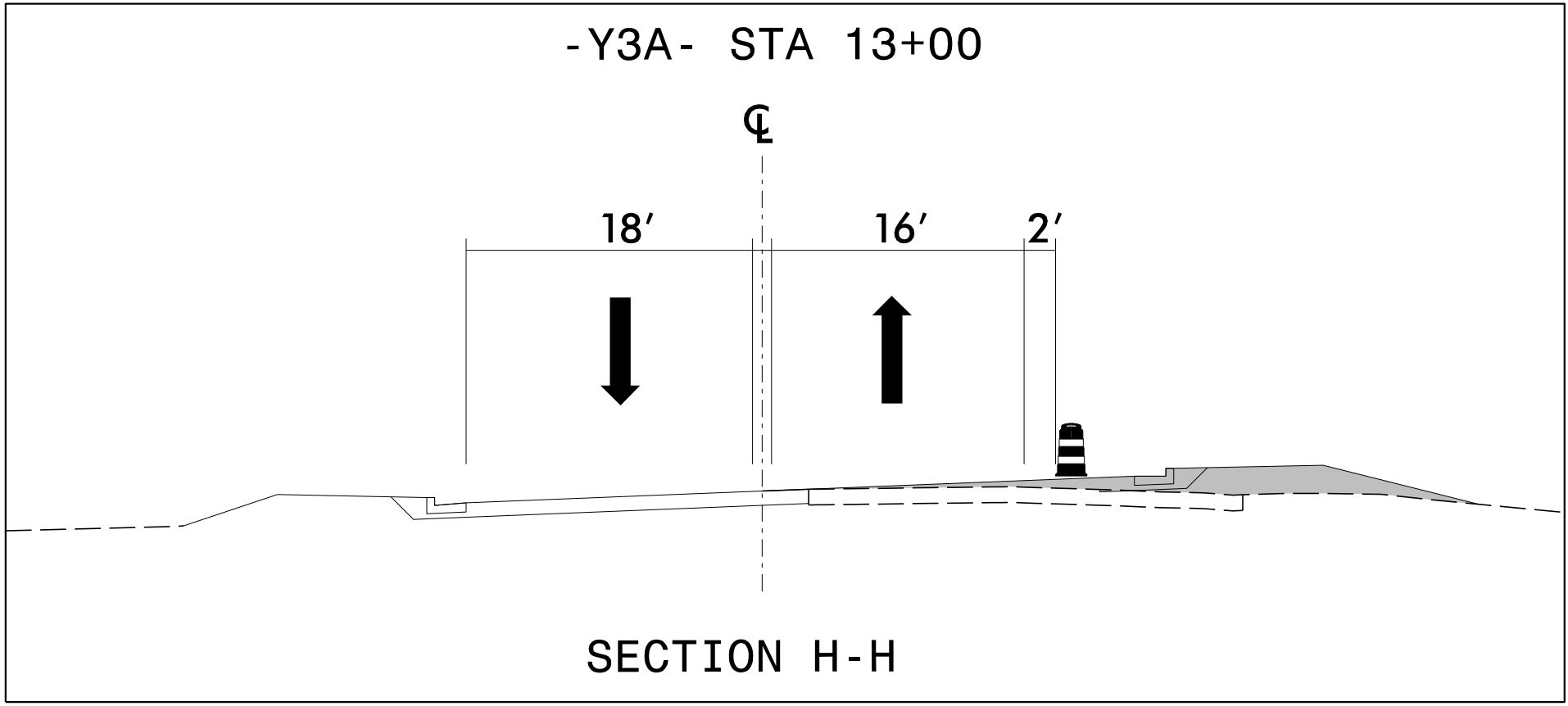
**PHASE II  
STEP 2  
DESIGN**

| PROJ. REFERENCE NO. | SHEET NO. |
|---------------------|-----------|
| U-5906              | TMP-10    |

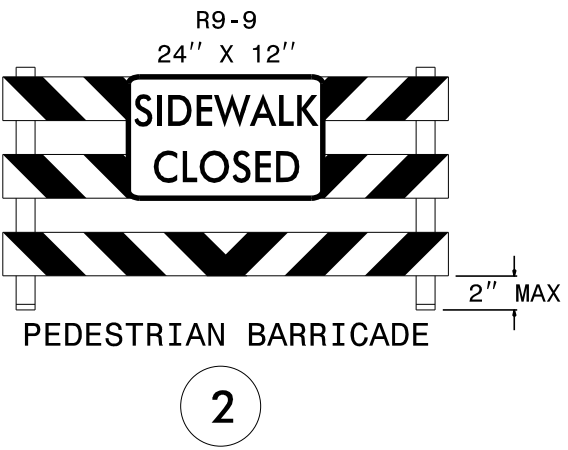
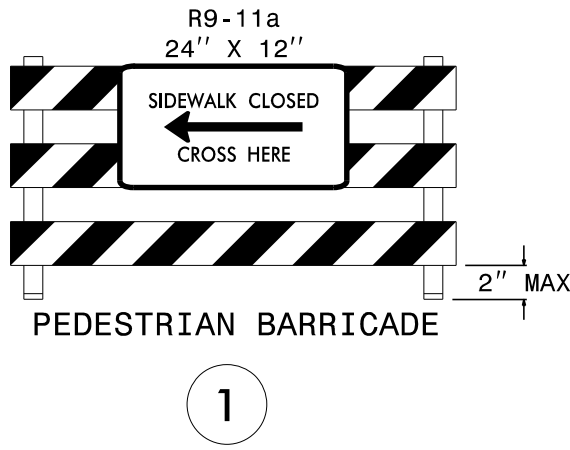
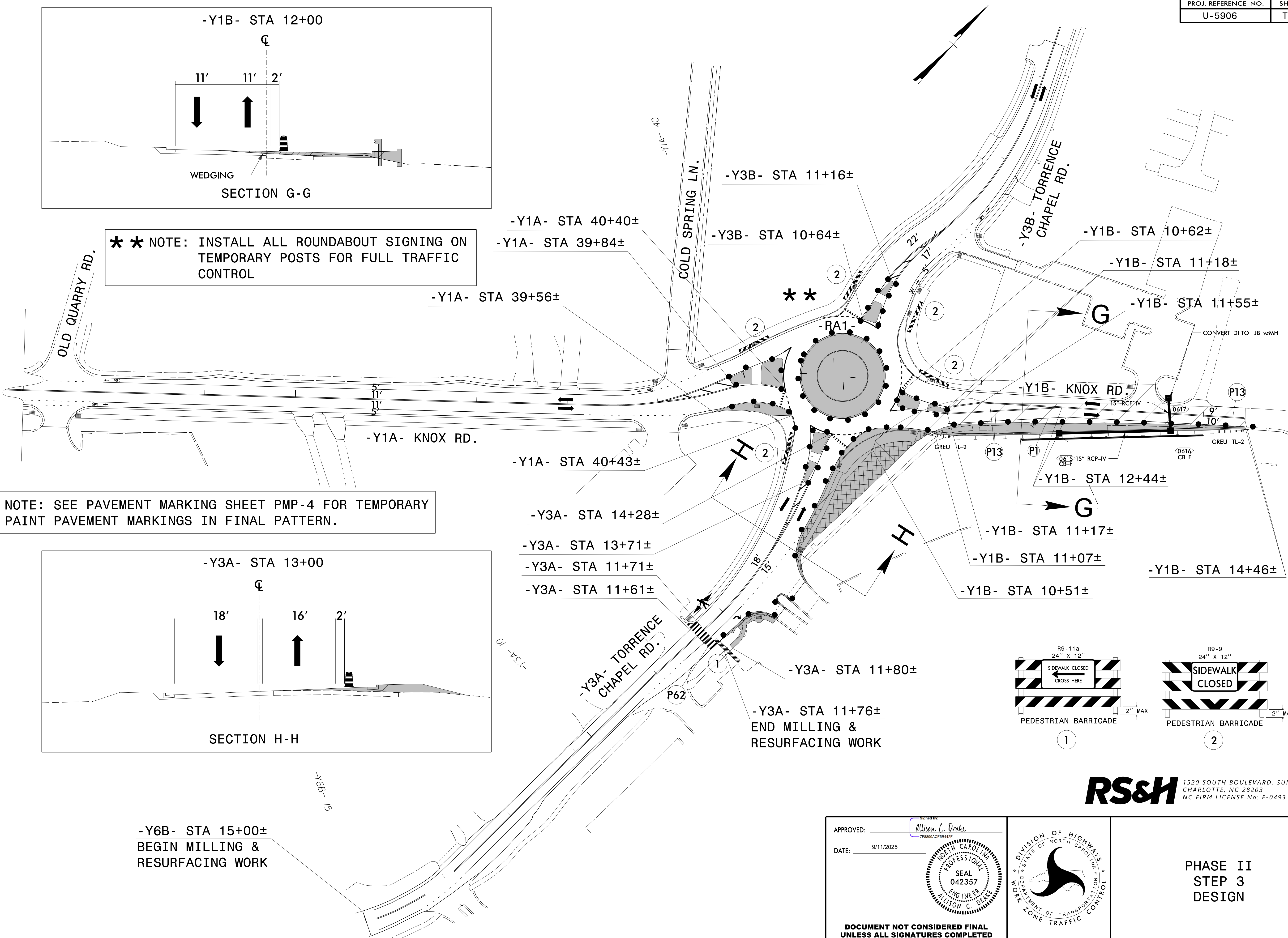


\*\*\* NOTE: INSTALL ALL ROUNDABOUT SIGNING ON TEMPORARY POSTS FOR FULL TRAFFIC CONTROL

NOTE: SEE PAVEMENT MARKING SHEET PMP-4 FOR TEMPORARY PAINT PAVEMENT MARKINGS IN FINAL PATTERN.

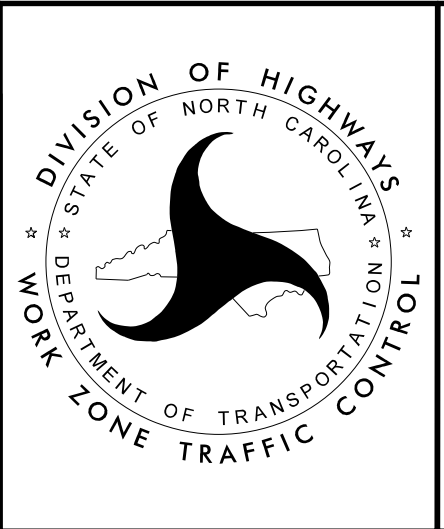


-Y6B- STA 15+00±  
BEGIN MILLING & RESURFACING WORK

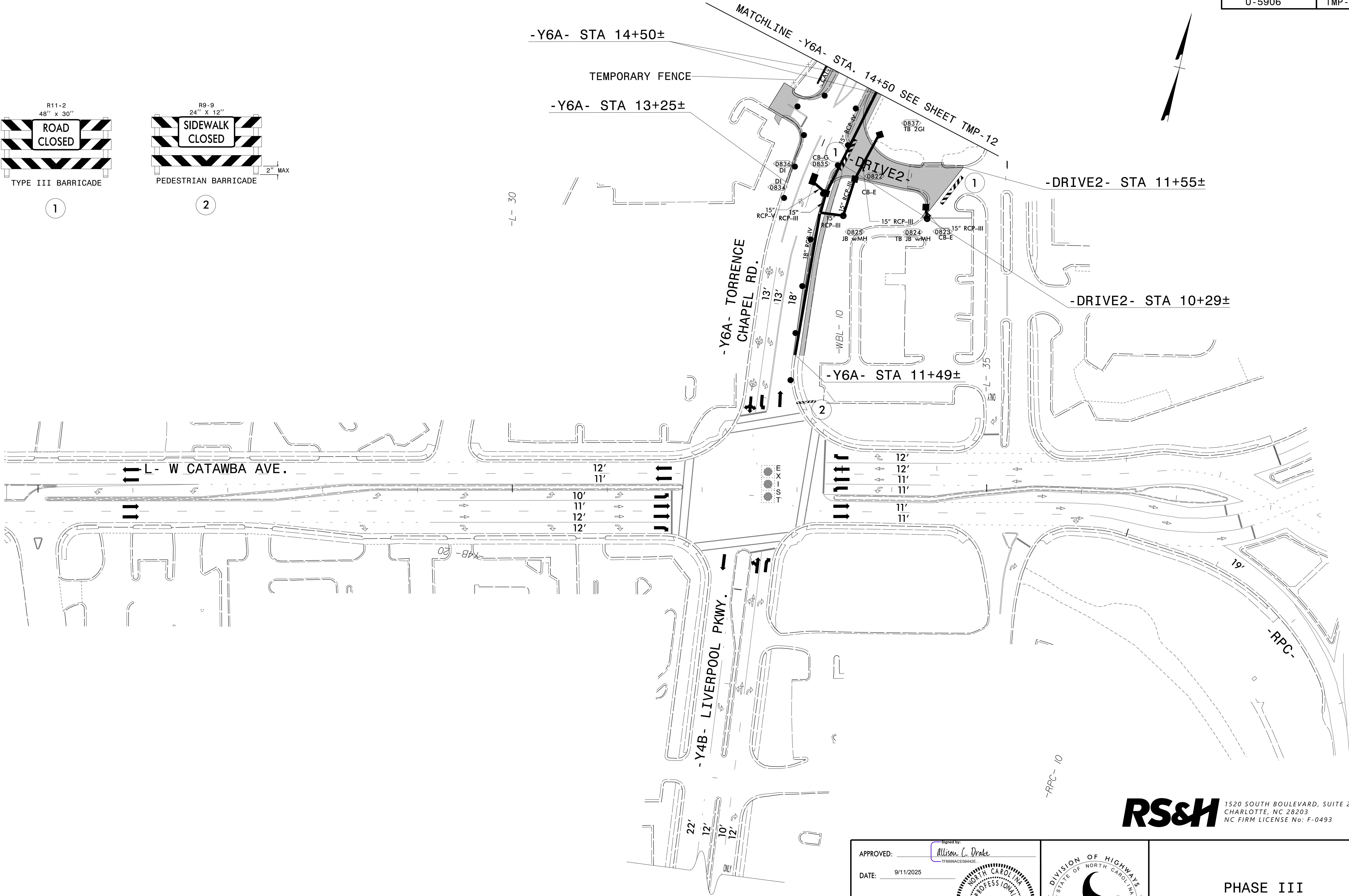
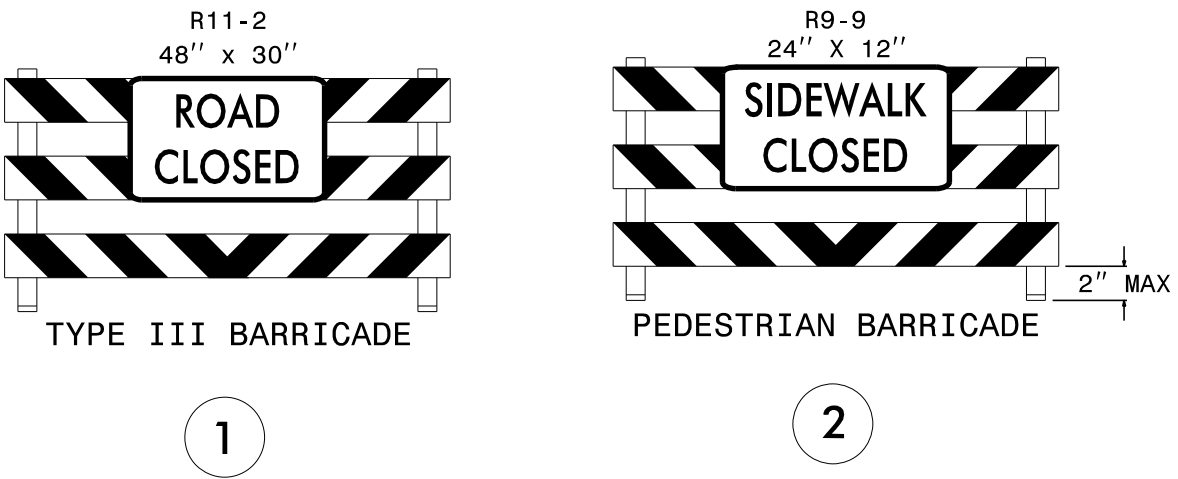


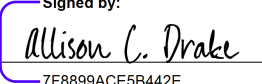
**RS&H** 1520 SOUTH BOULEVARD, SUITE 200  
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NC FIRM LICENSE No: F-0493

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|------------------------------------------------------------------|-------------------------------------------------------|
| APPROVED: _____                                                  | Signed by: <u>Allison C. Drake</u><br>7F8B9BACE58442E |
| DATE: 9/11/2025                                                  |                                                       |
|                                                                  |                                                       |
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PHASE II  
STEP 3  
DESIGN



APPROVED:   
DATE: 9/11/2025

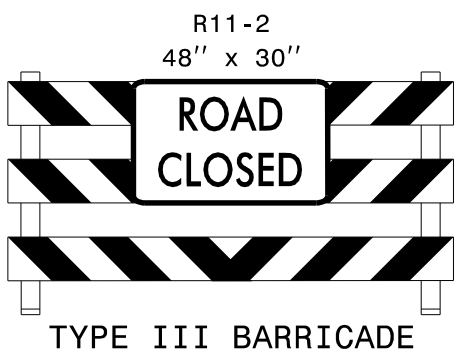


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UNLESS ALL SIGNATURES COMPLETED



PHASE III  
STEP 1  
DESIGN

| PROJ. REFERENCE NO. | SHEET NO. |
|---------------------|-----------|
| U - 5906            | TMP - 12  |



1

TEMPORARY FENCE

MATCHLINE -Y6A- STA. 14+50 SEE SHEET TMP-11

SR 2195

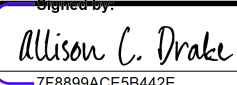
CAT-1, CAT-2

-TEMPDW- STA 10+20±

-TEMPDW- STA 12+30±

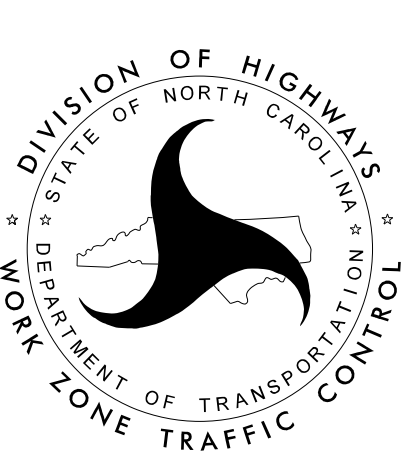
\* SEE SHEET ROADWAY SHEET 2B-13 FOR DETAIL.

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DATE: 9/11/2025

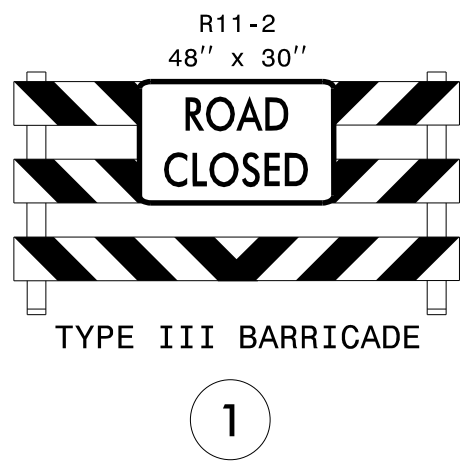


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UNLESS ALL SIGNATURES COMPLETED**



PHASE III  
STEP 1  
DESIGN

| PROJ. REFERENCE NO. | SHEET NO. |
|---------------------|-----------|
| U - 5906            | TMP - 13  |



TEMPORARY FENCE

-Y6A- STA 14+50±

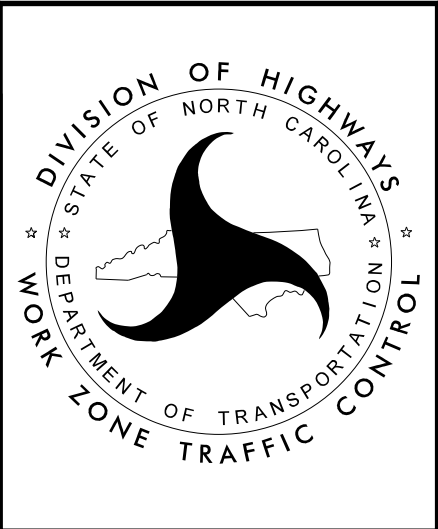
-DRIVE3- STA 10+20±

NOTE: EXISTING RT SIDE OF TORRENCE CHAPEL RD  
WILL BE OPEN FOR PEDESTRIAN USE ONLY.  
-Y6B- STA. 13+77± TO -Y6A- STA. 14+50±.

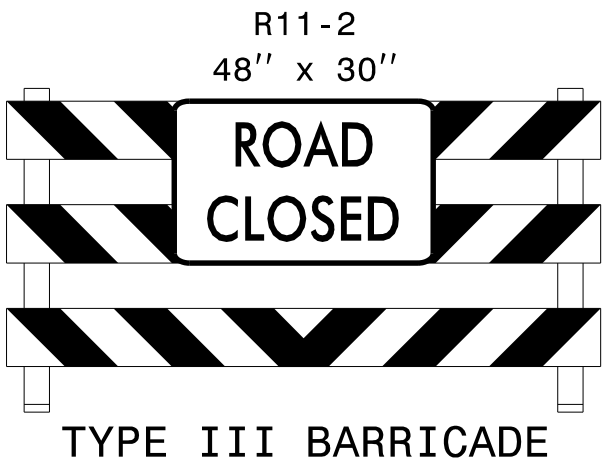
\* SEE SHEET TMP-2D FOR DETOUR  
ROUTE AND SIGNING

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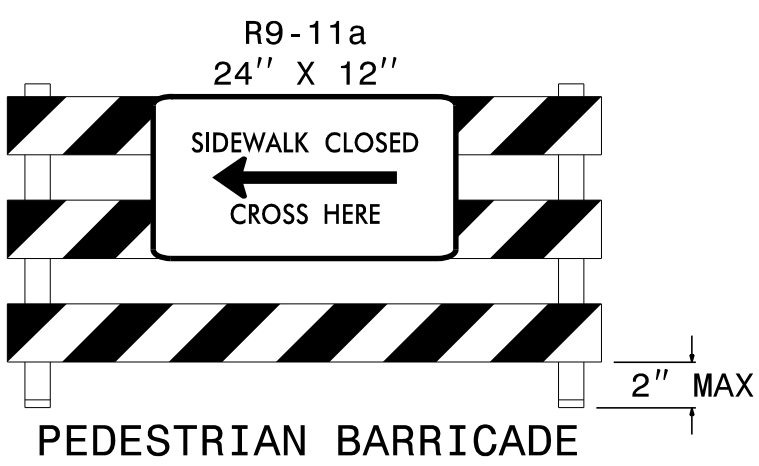
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|------------------------------------------------------------------|---------------------------------------------------------|
| APPROVED: _____                                                  | Signed by:<br><u>Allison C. Drake</u><br>7FBB9AC65B442E |
| DATE: 9/11/2025                                                  |                                                         |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED |                                                         |



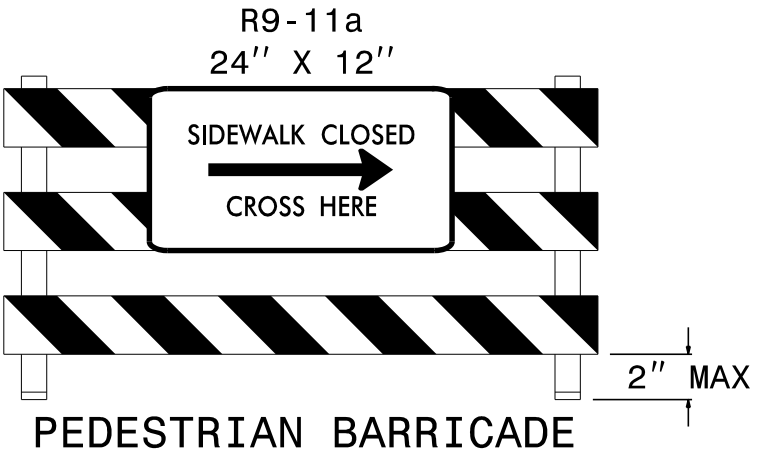
PHASE III  
STEP 2  
DESIGN



1

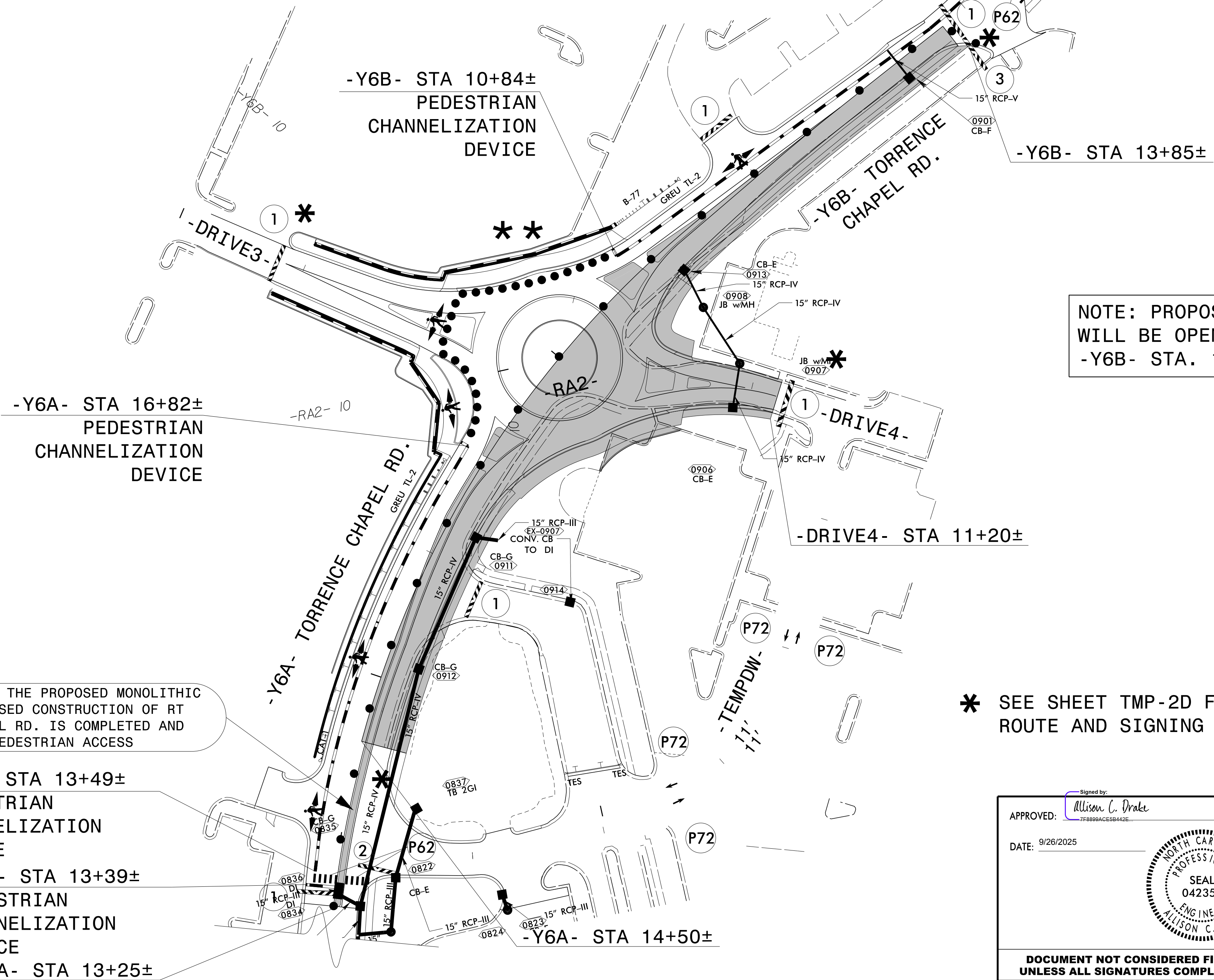


2



3

\*\*\* NOTE: INSTALL ALL ROUNDABOUT SIGNING ON TEMPORARY POSTS FOR FULL TRAFFIC CONTROL BEFORE OPENING THE ROUNDABOUT TO TRAFFIC



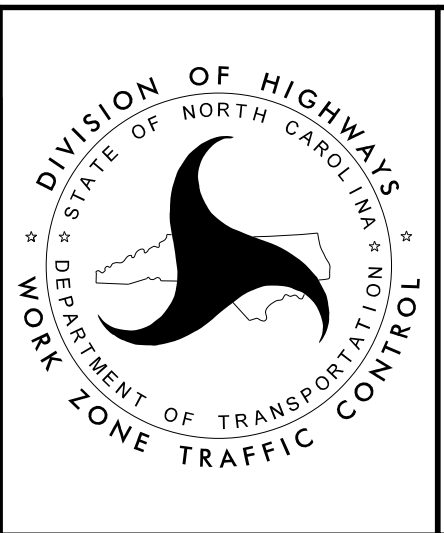
NOTE: PROPOSED LT SIDE OF TORRENCE CHAPEL RD WILL BE OPEN FOR PEDESTRIAN USE ONLY.  
-Y6B- STA. 13+85± TO -Y6A- STA. 14+50±.

NOTE: DO NOT CONSTRUCT THE PROPOSED MONOLITHIC ISLAND UNTIL THE PROPOSED CONSTRUCTION OF RT SIDE OF TORRENCE CHAPEL RD. IS COMPLETED AND CAN BE OPENED UP FOR PEDESTRIAN ACCESS

\*\*\* SEE SHEET TMP-2D FOR DETOUR ROUTE AND SIGNING

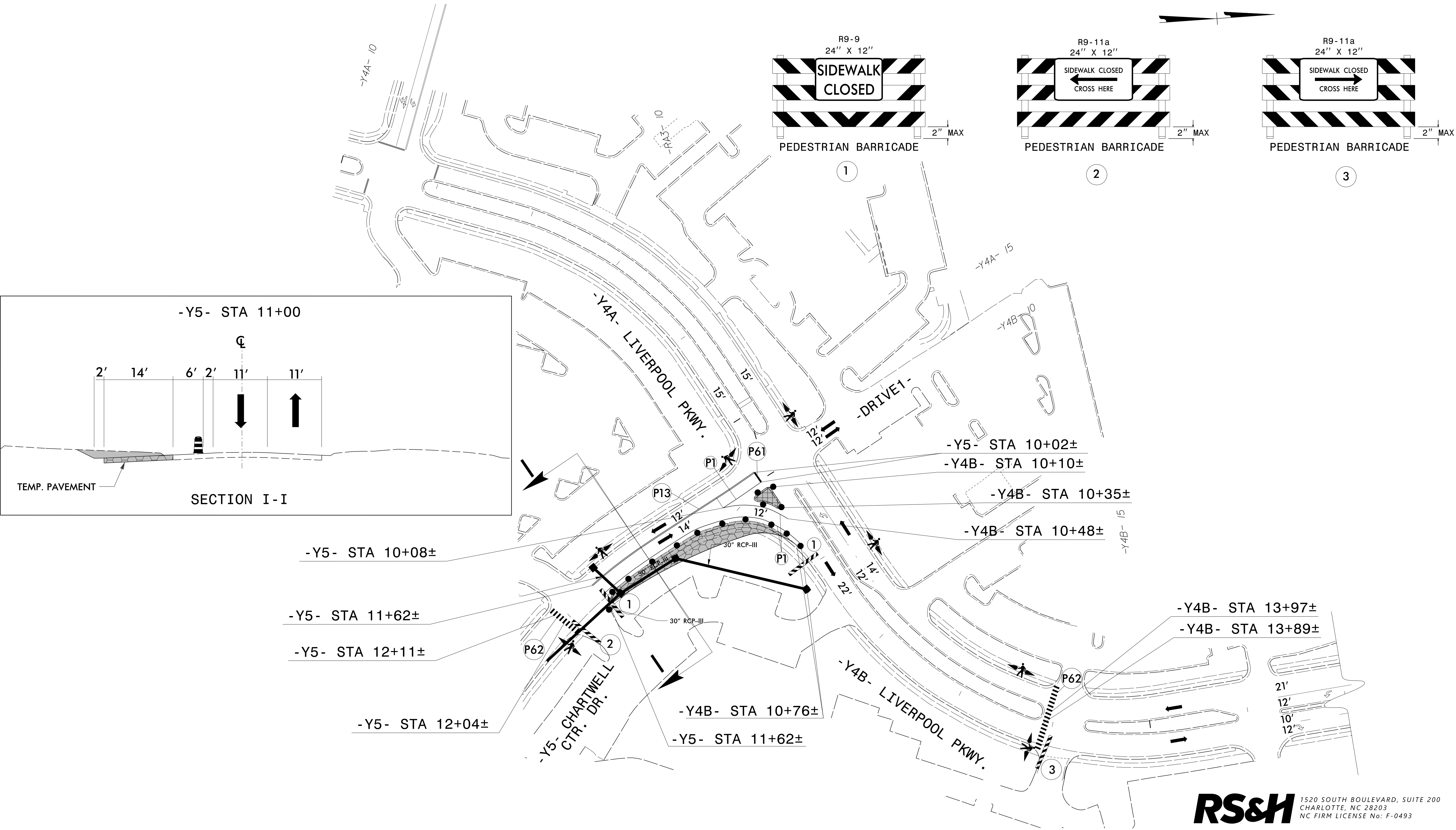
**RS&H** 1520 SOUTH BOULEVARD, SUITE 200  
CHARLOTTE, NC 28203  
NC FIRM LICENSE No: F-0493

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|------------------------------------------------------------------|----------------------------------------------------------|
| APPROVED:                                                        | Signed by:<br><i>Allison C. Drake</i><br>7F5899AC5B8442E |
| DATE:                                                            | 9/26/2025                                                |
|                                                                  |                                                          |
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PHASE III  
STEP 3  
DESIGN

| PROJ. REFERENCE NO. | SHEET NO. |
|---------------------|-----------|
| U-5906              | TMP-15    |



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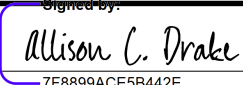
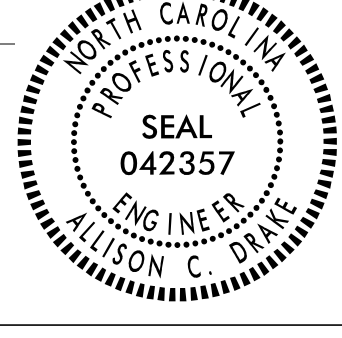
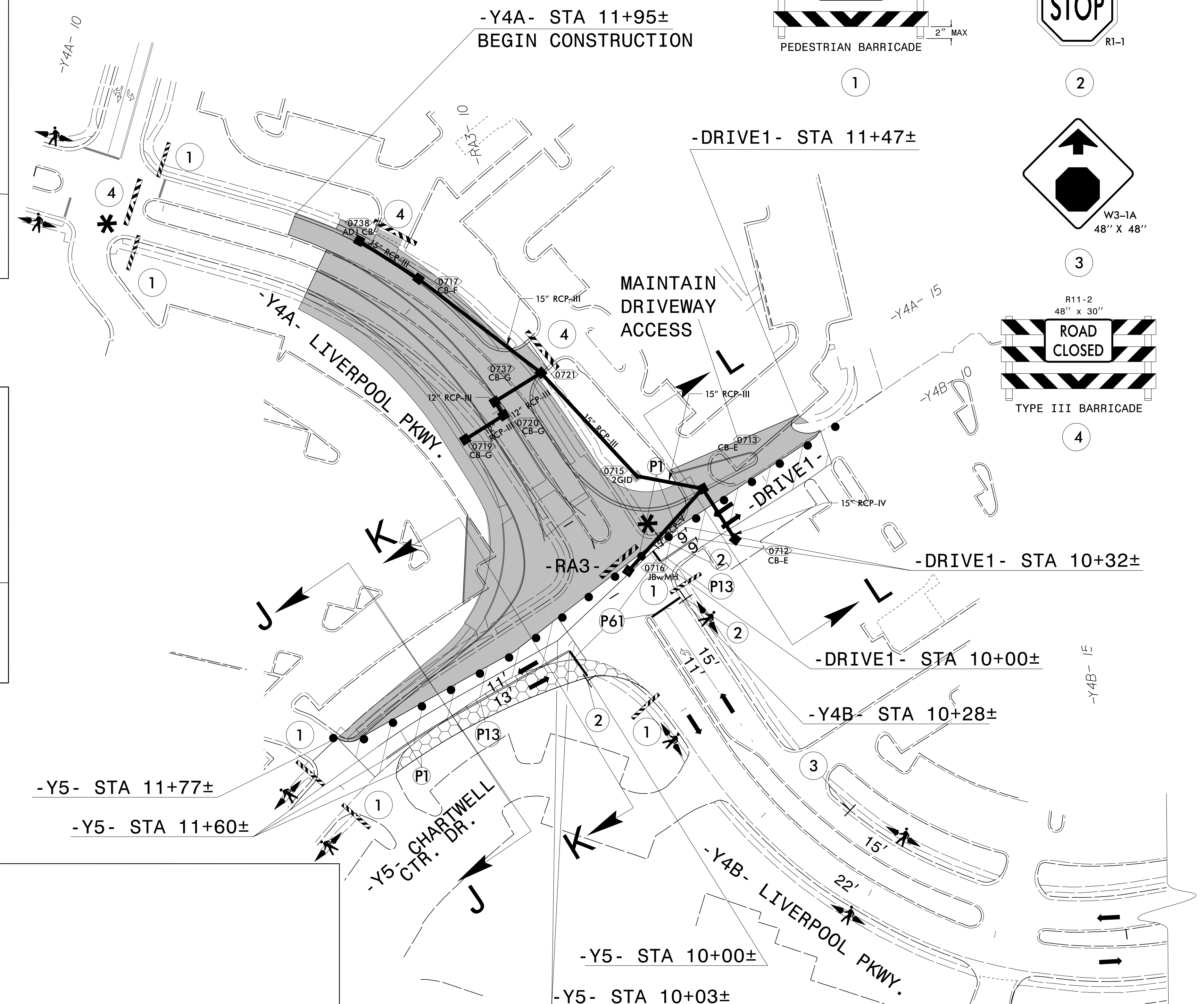
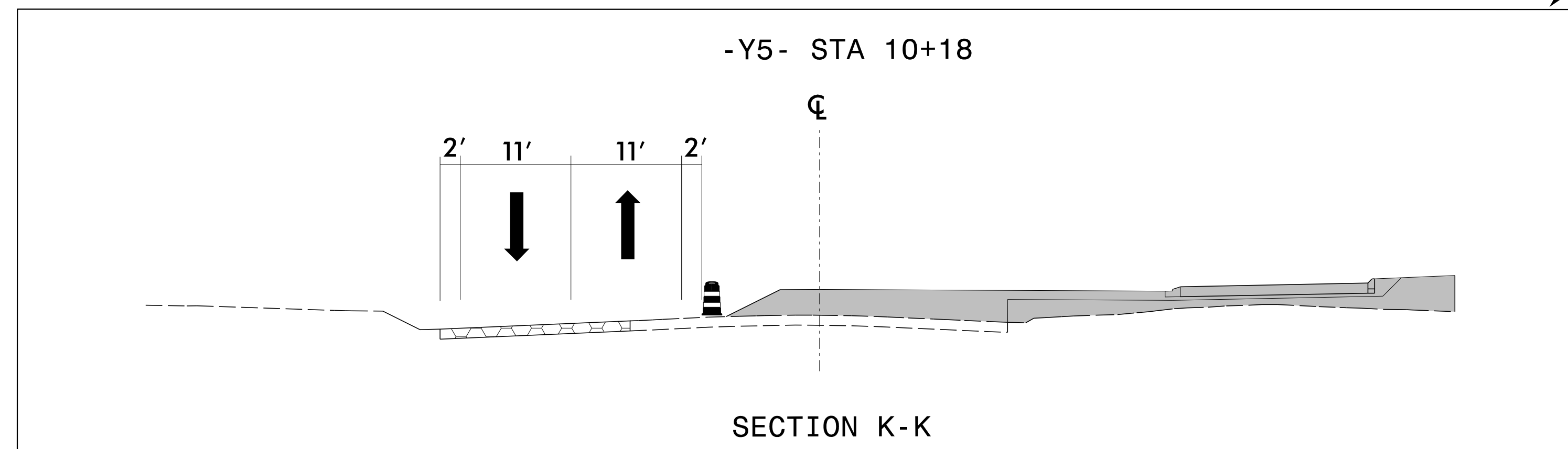
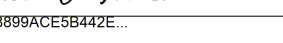
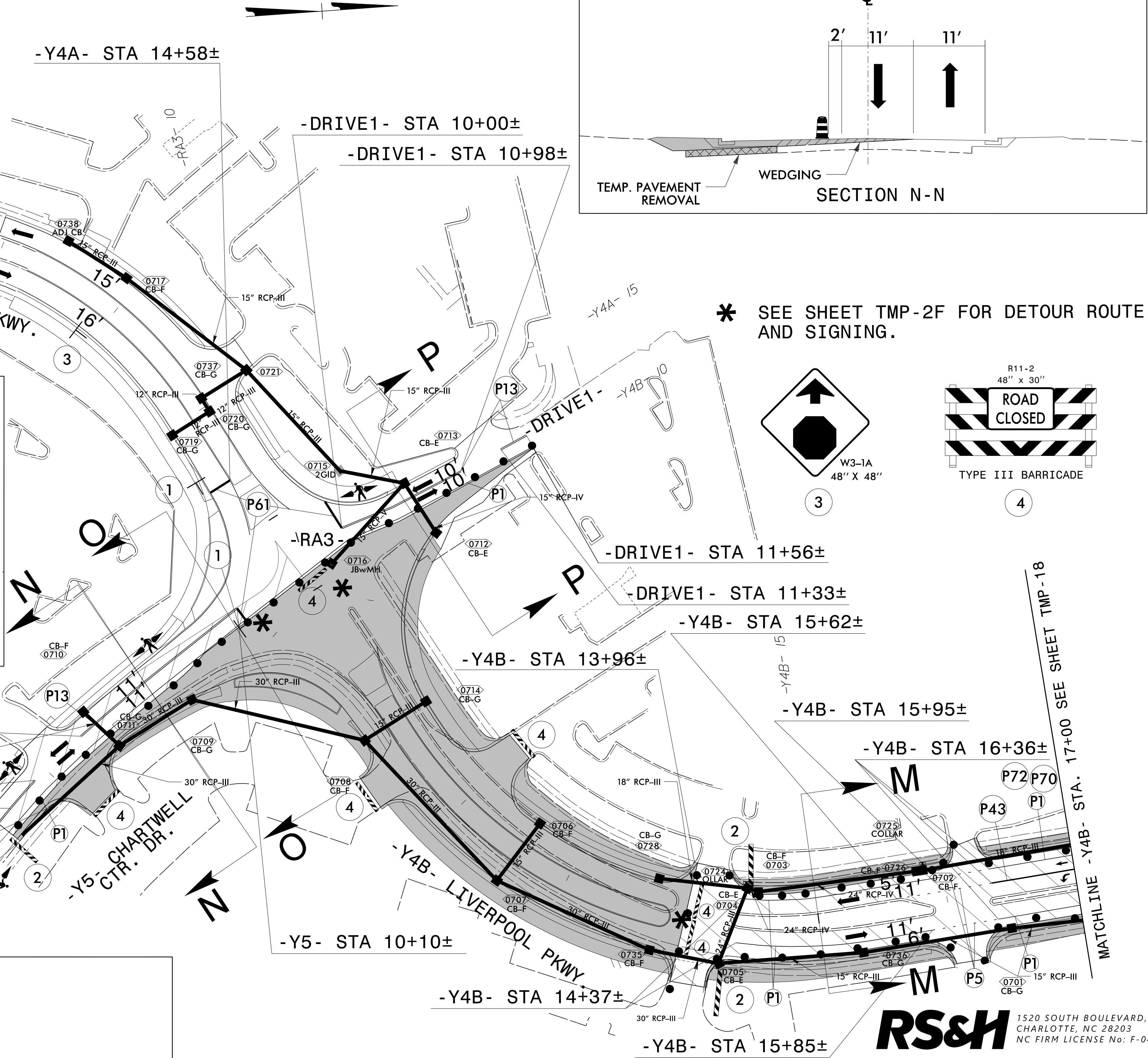
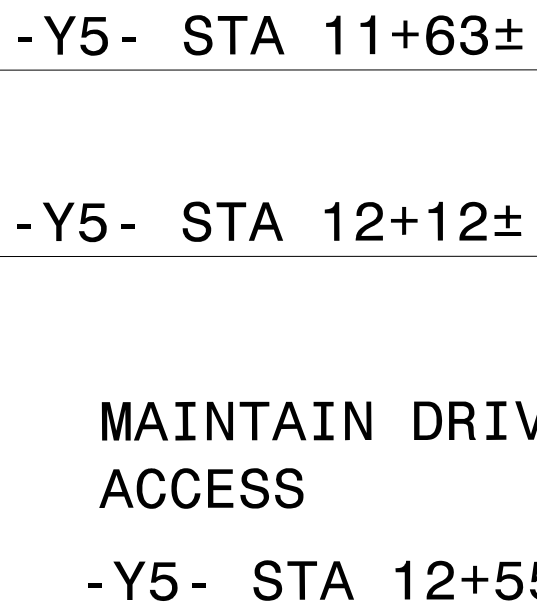
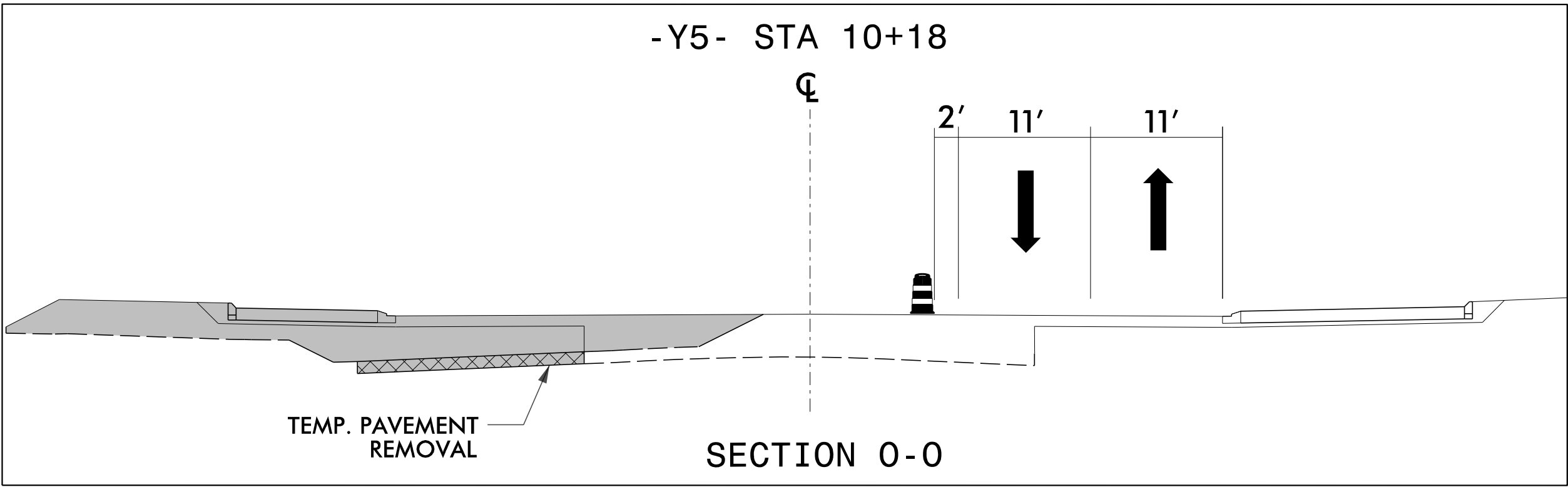
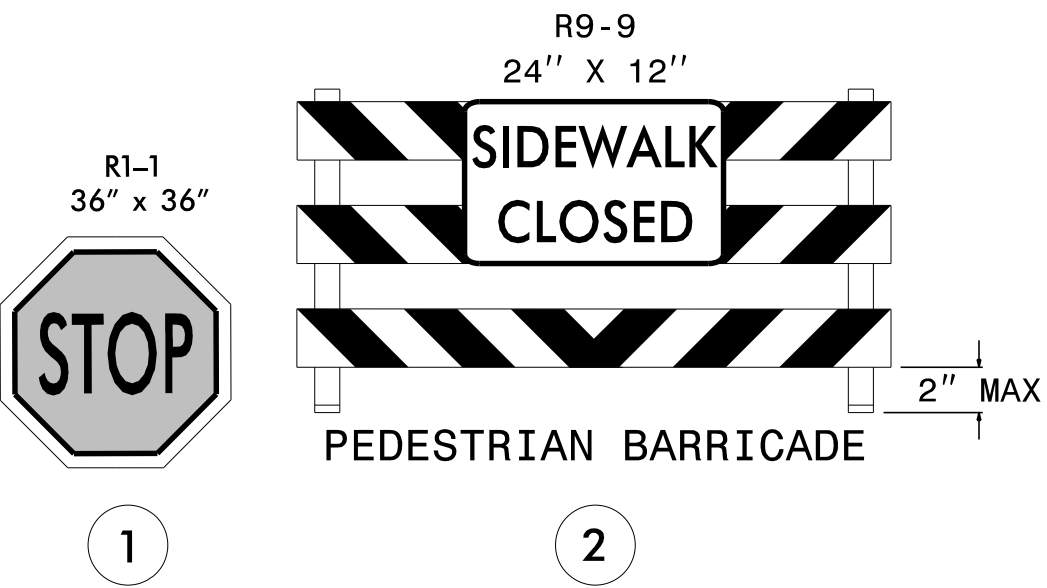
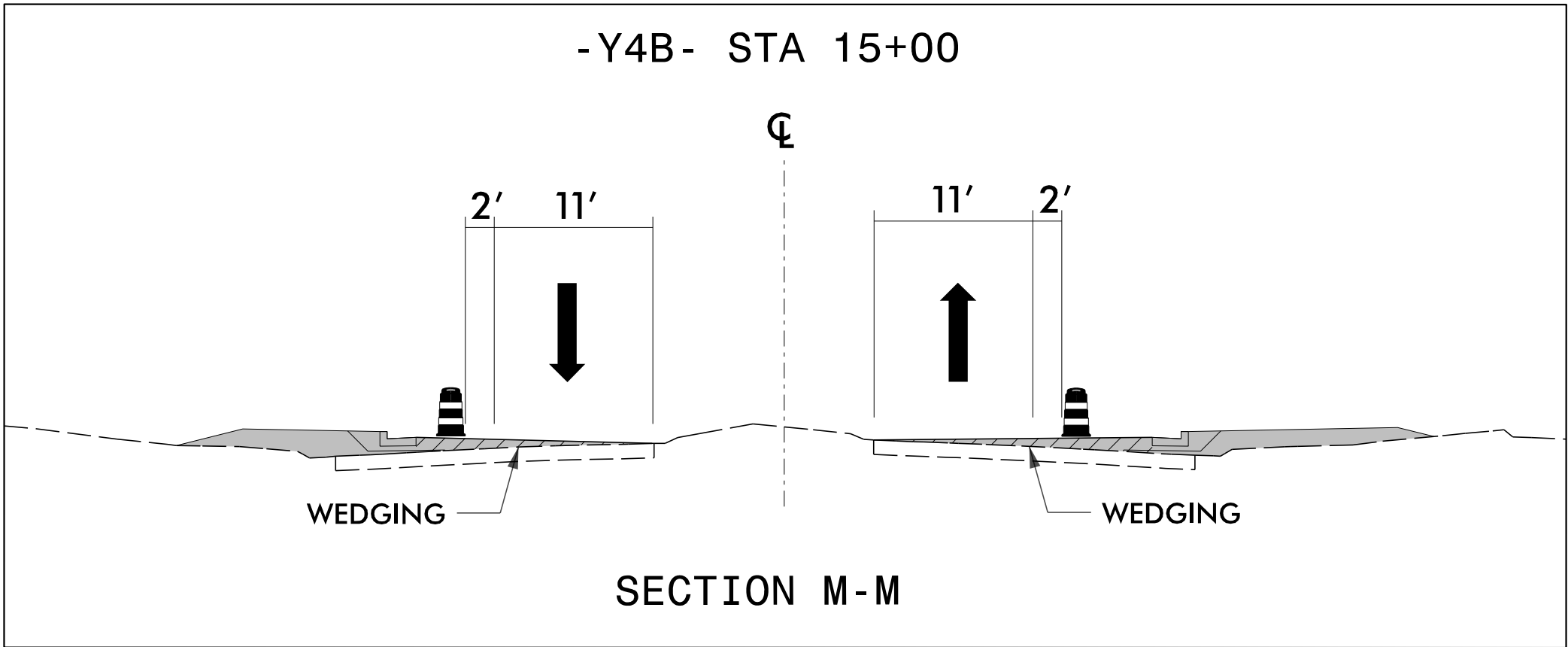
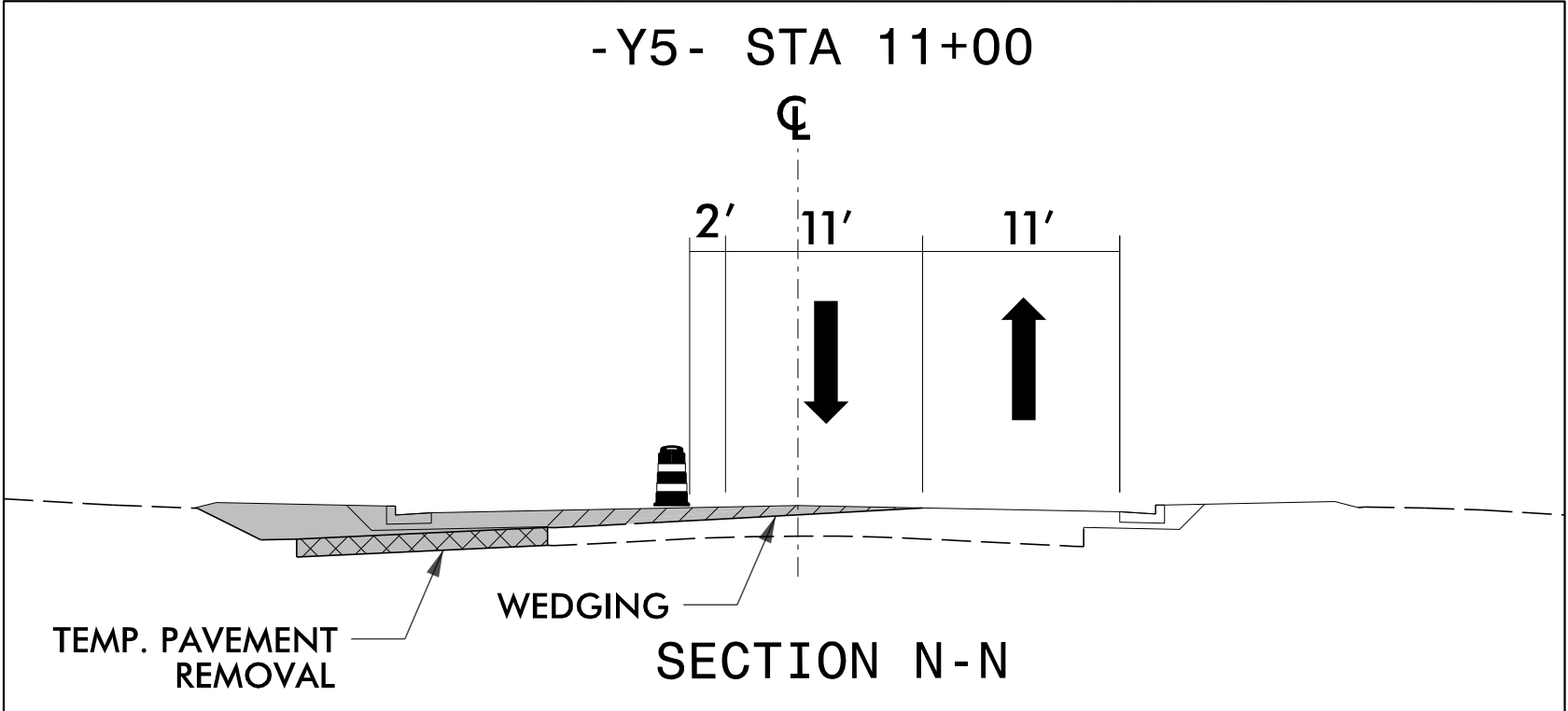
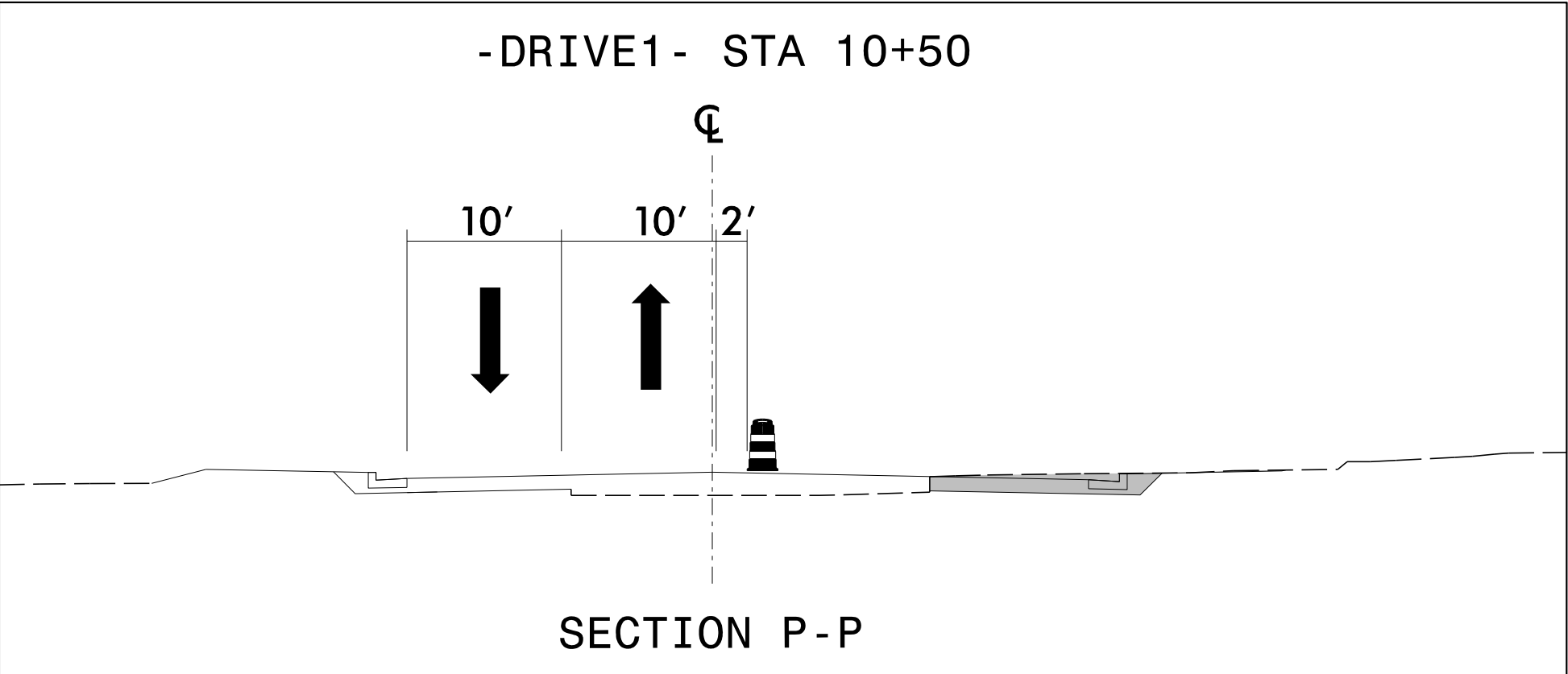
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|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------|
| APPROVED: <br>DATE: 9/11/2025 |  |  | PHASE IV<br>STEP 1<br>DESIGN |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED                                                   |                                                                                       |                                                                                       |                              |

Diagram 1 shows a pedestrian barricade and a stop sign. The barricade is labeled "R9-9 24'' X 12''" and "SIDEWALK CLOSED". It has a height of "2'' MAX" and is labeled "PEDESTRIAN BARRICADE". The stop sign is labeled "RI-1" and "STOP".



\* SEE SHEET TMP-2E FOR DETOUR ROUTE  
AND SIGNING.

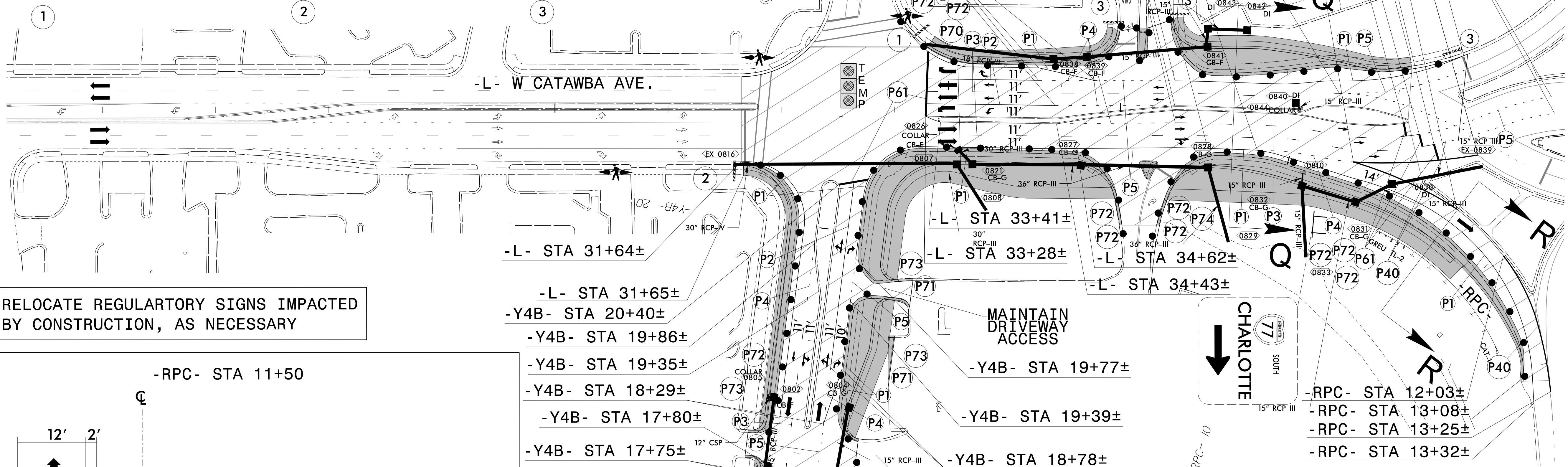
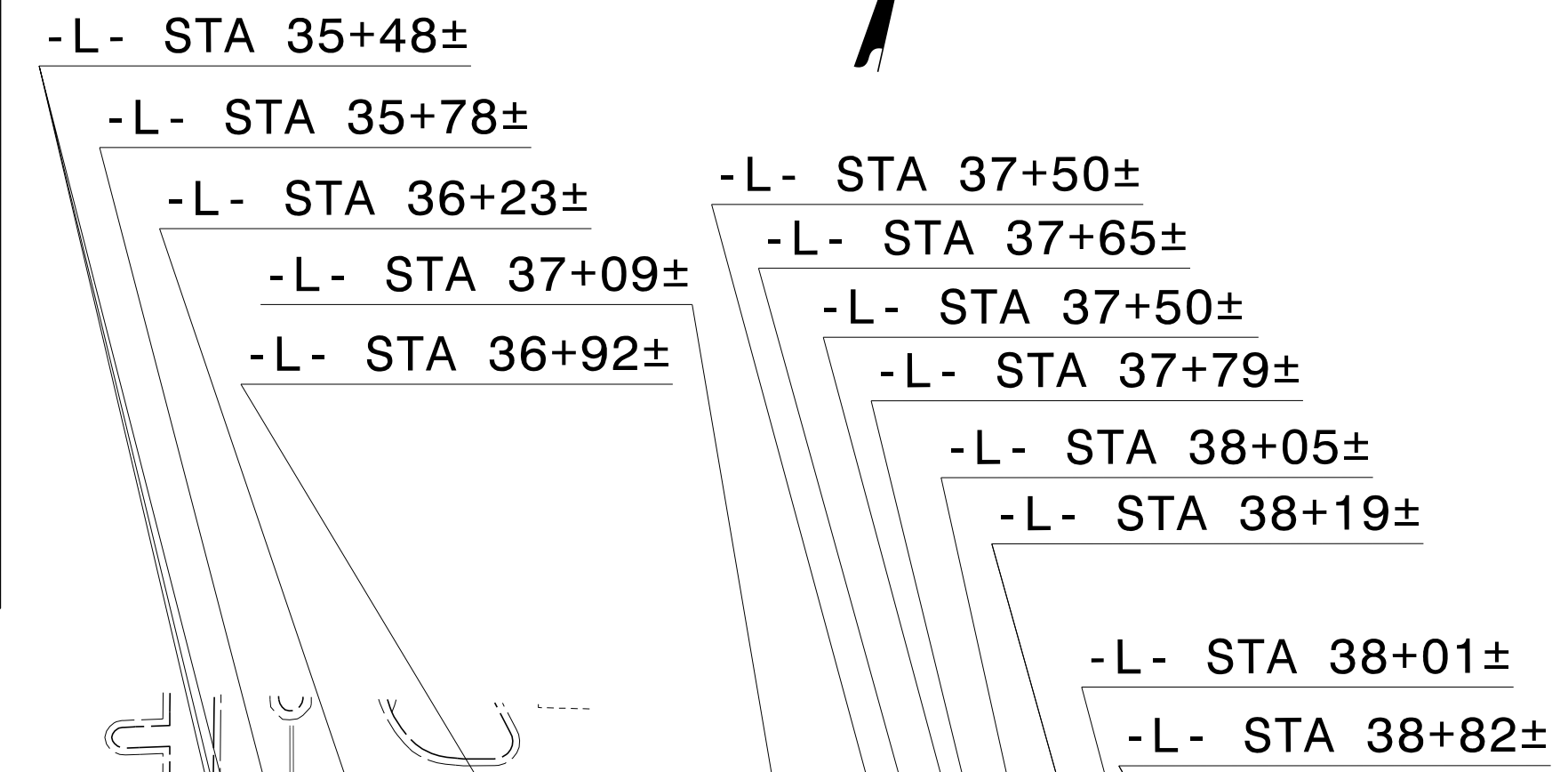
|                                                                          |                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| APPROVED: _____<br>DATE: _____ 9/11/2025                                 | <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">           Signed by:<br/> <i>Allison C. Drake</i> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;">  </div> | <div style="border: 1px solid black; padding: 10px; margin-bottom: 10px;">  </div> <div style="border: 1px solid black; padding: 10px;"> <h2 style="margin: 0;">PHASE IV</h2> <h2 style="margin: 0;">STEP 2</h2> <h2 style="margin: 0;">DESIGN</h2> </div> |
| <b>DOCUMENT NOT CONSIDERED FINAL<br/>UNLESS ALL SIGNATURES COMPLETED</b> |                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                 |



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NC FIRM LICENSE No: F-0493

PHASE V  
STEP 1  
DESIGN

8/11/2025  
R:\Traffic\TrafficControl\TCP\U5906\_TC\_TMP\_px-dtl\_04.dgn  
User:Avqarinn



-RPC- STA 11+50

CL

12' 2'

WEDGING

2:1

SECTION R-R

MATCHLINE -Y4B- STA. 17+00 SEE SHEET TMP-17  
 P100  
 P43  
 P70  
 CB-F 0803  
 P1  
 P44  
 -Y4B- LIVERPOOL PKWY.  
 MA

MAINTAIN  
DRIVEWAY  
ACCESS

PHASE V  
STEP 1  
DESIGN

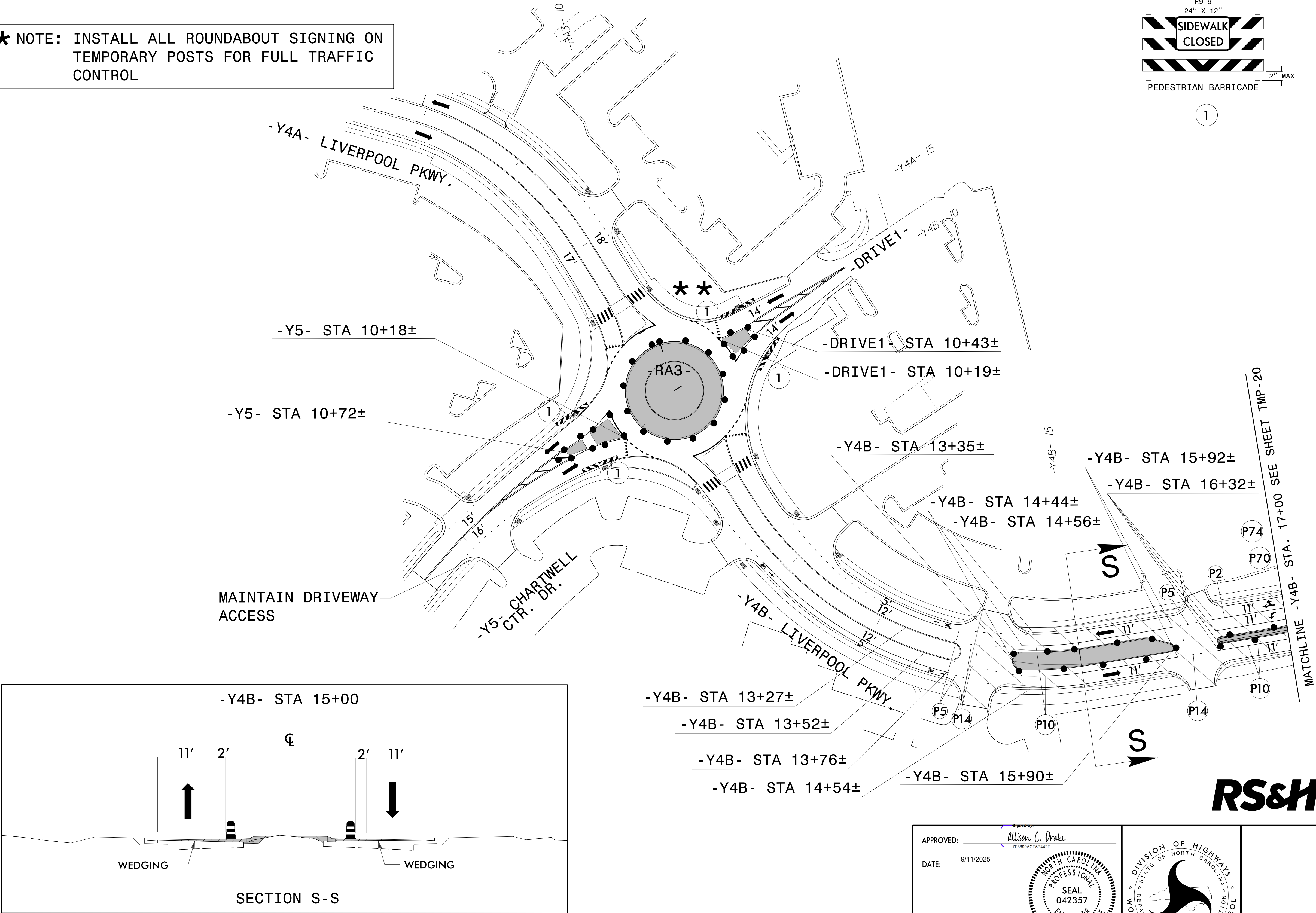
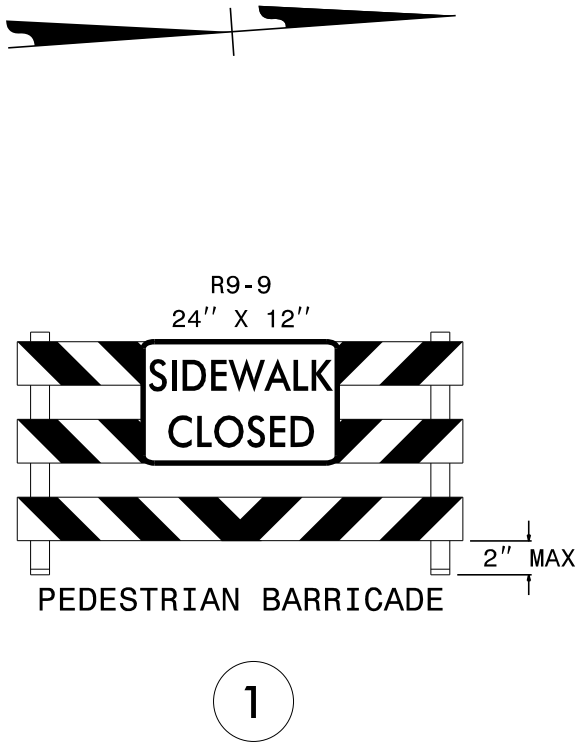
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8/5/2025  
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User:AvgerinN

| PROJ. REFERENCE NO. | SHEET NO. |
|---------------------|-----------|
| U - 5906            | TMP - 19  |

NOTE: SEE PAVEMENT MARKING SHEET PMP-5 FOR TEMPORARY PAINT PAVEMENT MARKINGS IN FINAL PATTERN.

\*\*\* NOTE: INSTALL ALL ROUNDABOUT SIGNING ON TEMPORARY POSTS FOR FULL TRAFFIC CONTROL

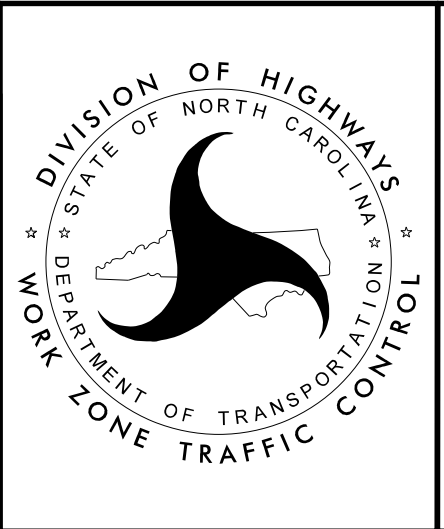


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DATE: 9/11/2025

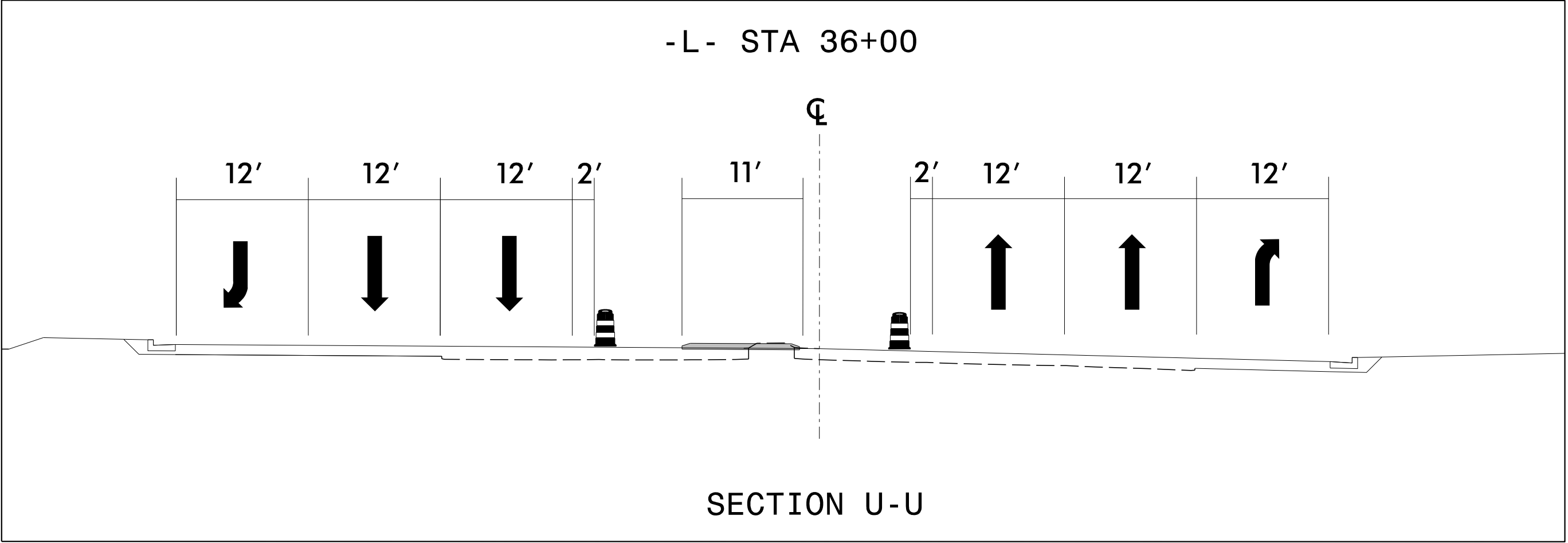
**PROFESSIONAL SEAL**  
042357  
ENGINEER  
ALLISON C. DRAKE

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



PHASE V  
STEP 2  
DESIGN

| PROJ. REFERENCE NO. | SHEET NO. |
|---------------------|-----------|
| U-5906              | TMP-20    |



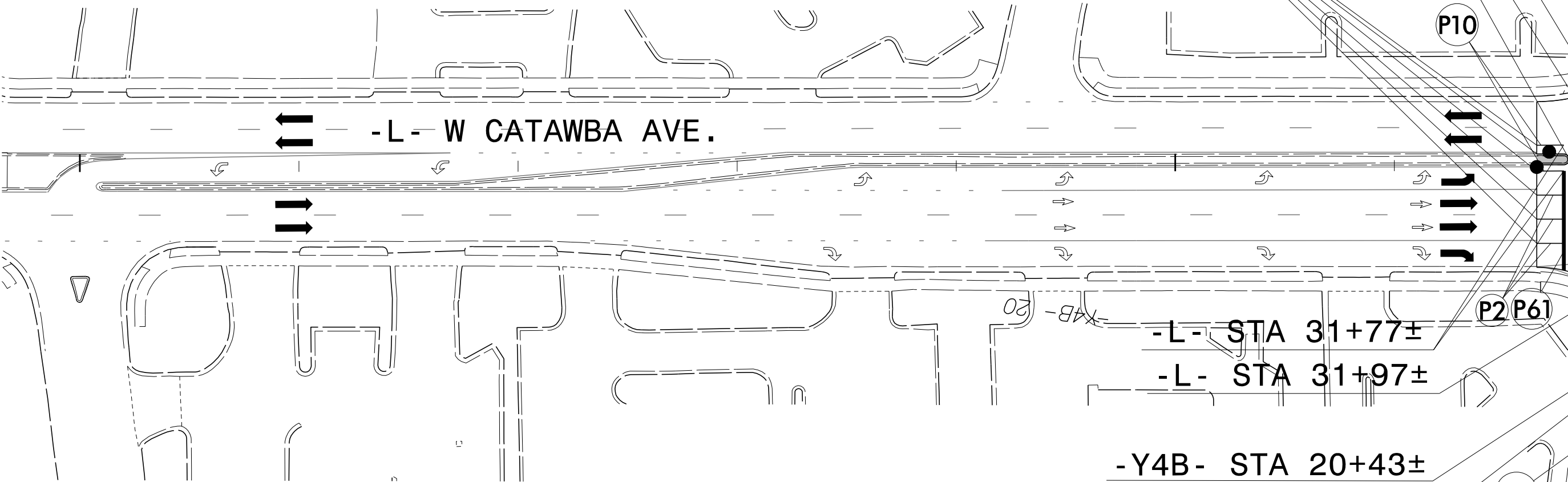
-L- STA 33+43±  
-L- STA 33+34±

-L- STA 34+73±  
-L- STA 35+74±  
-L- STA 36+20±

-L- STA 37+26±  
-L- STA 38+19±  
-L- STA 37+55±  
-L- STA 37+74±  
-L- STA 37+71±

-L- STA 33+23±  
-L- STA 31+92±  
-L- STA 31+82±  
-L- STA 31+80±

-L- STA 31+65±



-L- STA 31+77±  
-L- STA 31+97±

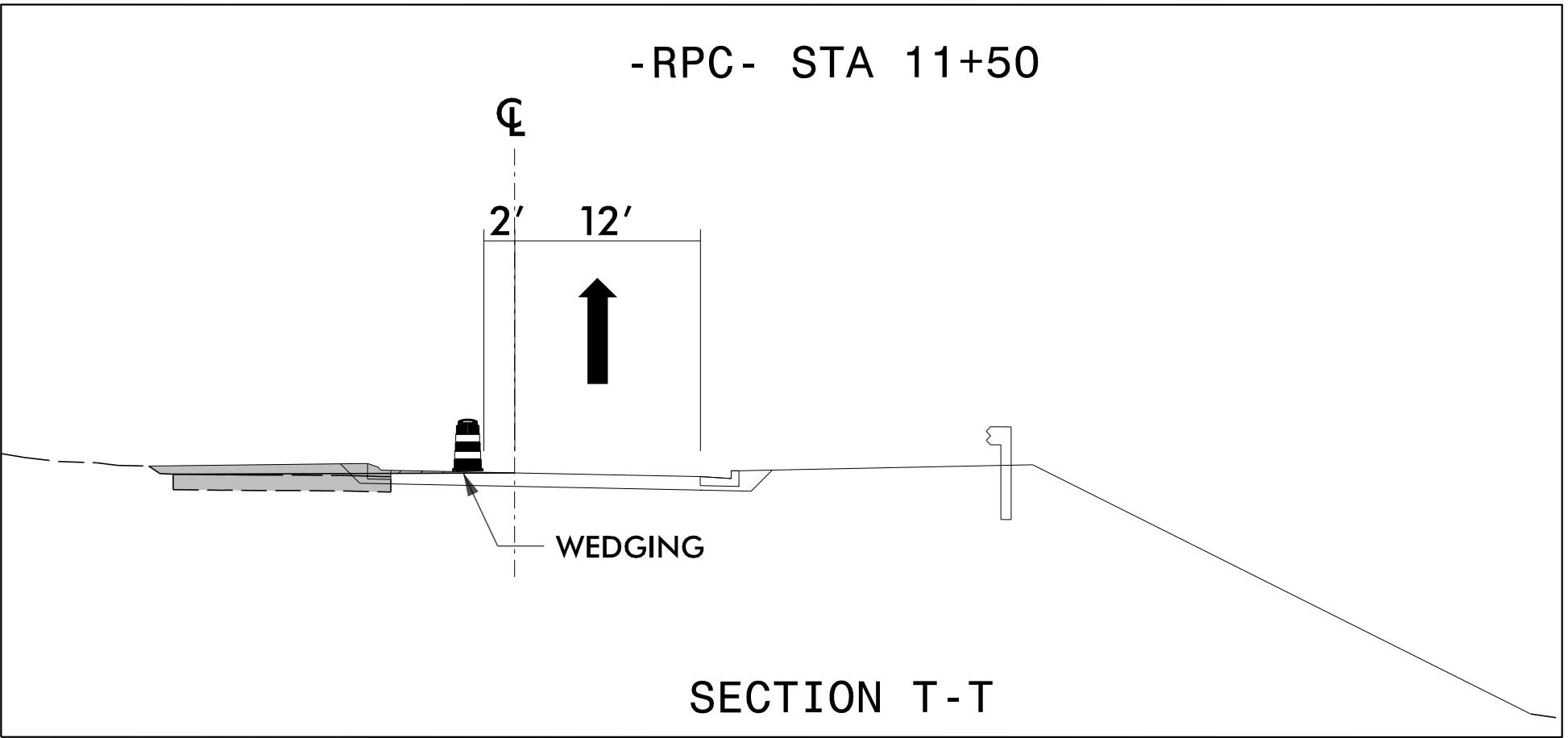
-Y4B- STA 20+43±  
-Y4B- STA 20+29±  
-Y4B- STA 19+84±  
-Y4B- STA 19+37±  
-Y4B- STA 19+00±  
-Y4B- STA 18+37±  
-Y4B- STA 17+78±  
-Y4B- STA 17+67±

-L- STA 33+45±  
-L- STA 33+39±  
-L- STA 34+48±

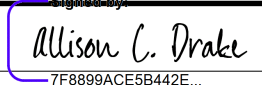
-L- STA 35+48±  
-L- STA 36+34±

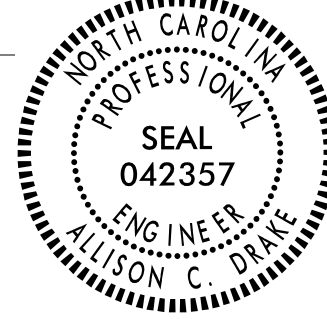
-L- STA 36+97±  
-RPC- STA 10+47±

-RPC- STA 12+78±  
-RPC- STA 13+35±

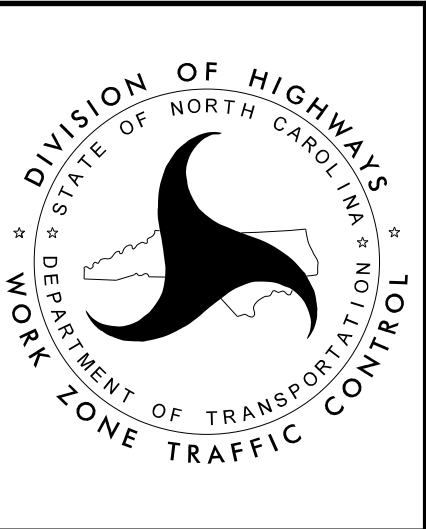


MATCHLINE -Y4B- STA. 17+00 SEE SHEET TMP-19

APPROVED:   
DATE: 9/11/2025



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UNLESS ALL SIGNATURES COMPLETED



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PHASE V  
STEP 2  
DESIGN