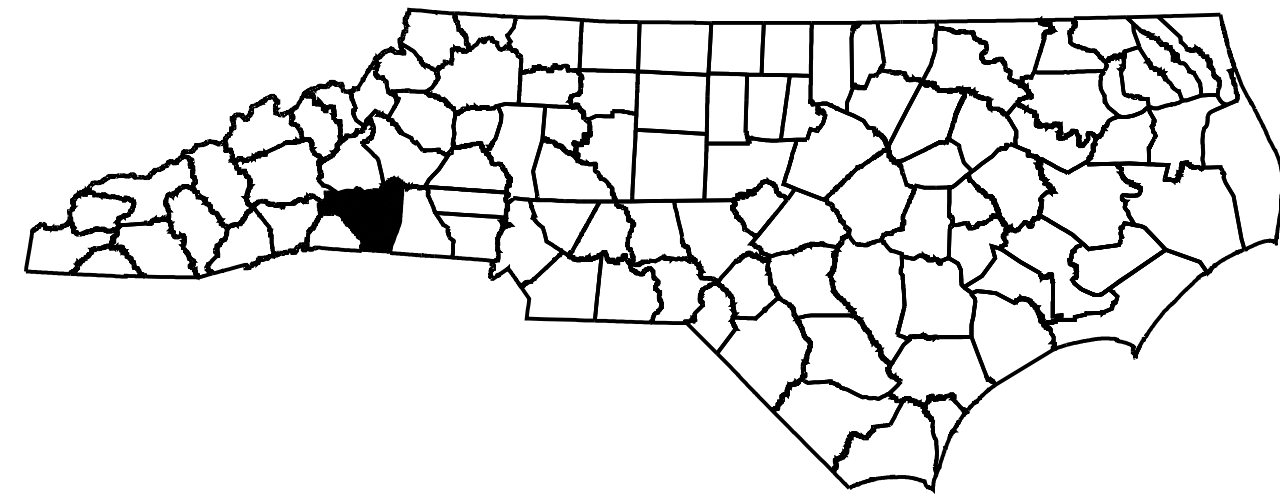


STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

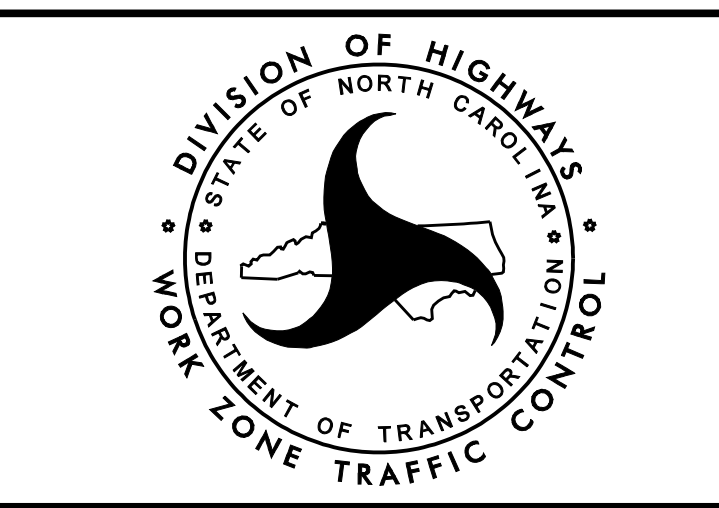
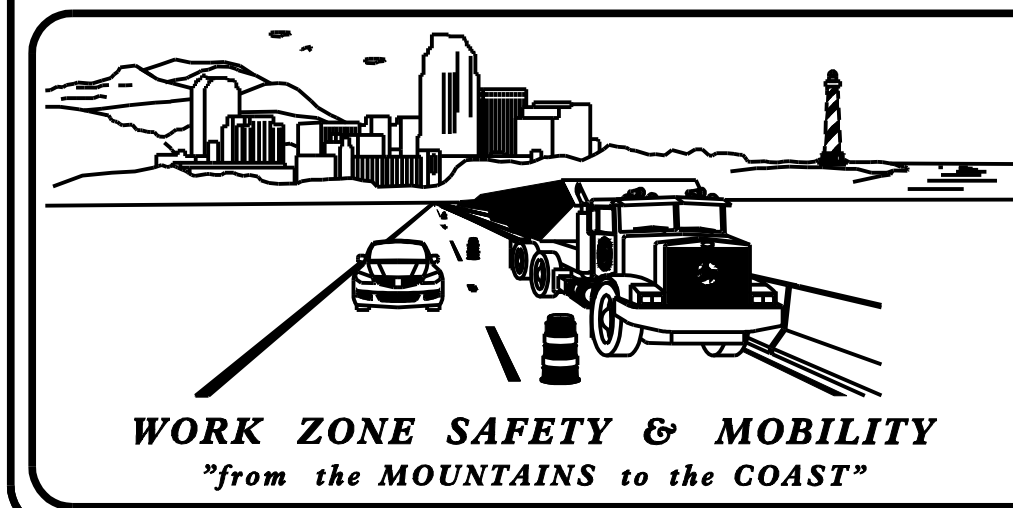
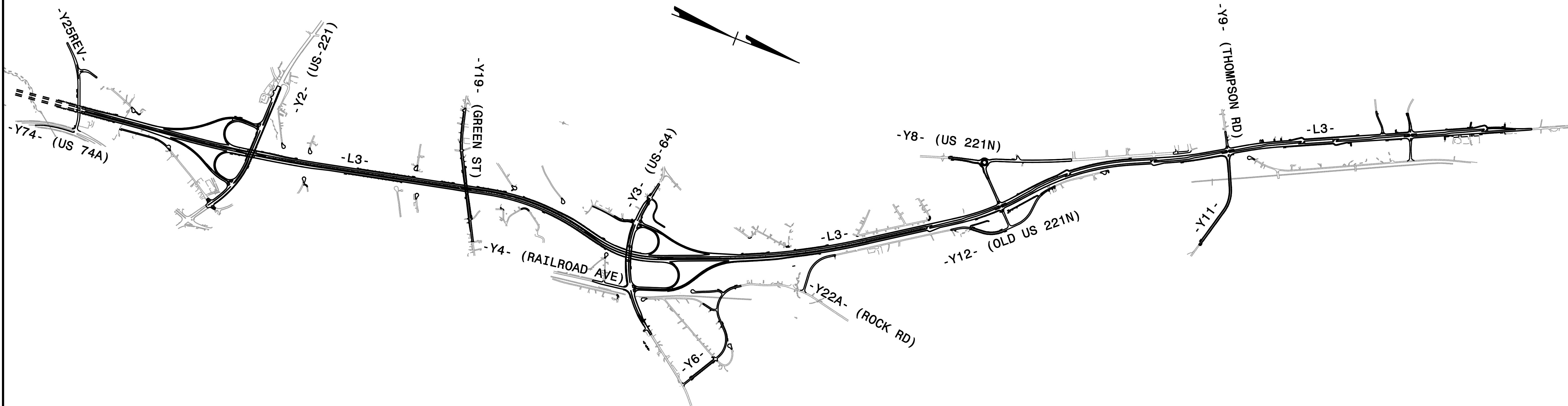
**TRANSPORTATION MANAGEMENT PLAN**

**RUTHERFORD COUNTY**



**INDEX OF SHEETS**

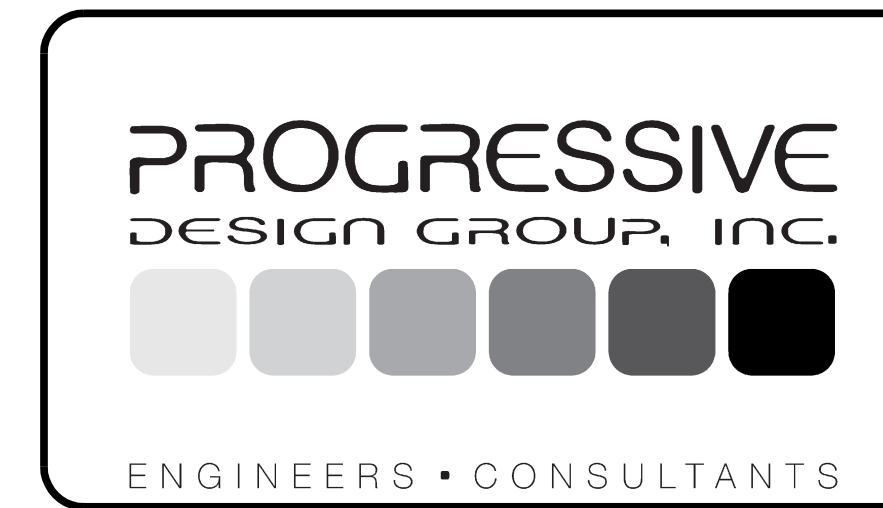
SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-1B THRU TMP-1C	TRANSPORTATION OPERATIONS PLAN: (GENERAL NOTES AND LOCAL NOTES)
TMP-2 THRU TMP-2A	OFFSITE DETOUR ROUTES
TMP-3	WRITTEN PHASING
TMP-4 THRU TMP-13	PHASE I OVERVIEWS
TMP-14 THRU TMP-24	PHASE I DETAILS
TMP-25	PHASE IA OVERVIEW
TMP-26	PHASE IB OVERVIEW
TMP-27	PHASE IC OVERVIEW
TMP-28 THRU TMP-37	PHASE II OVERVIEWS
TMP-38 THRU TMP-48	PHASE II DETAILS
TMP-49 THRU TMP-58	PHASE III OVERVIEWS
TMP-59 THRU TMP-70	PHASE III DETAILS



**NCDOT CONTACTS:**

\_\_\_\_\_  
DON A. PARKER, P.E.  
**PROJECT ENGINEER**

\_\_\_\_\_  
KARMEN DAIS, P.E.  
**PROJECT DESIGN ENGINEER**



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

APPROVED: Tim Arcy  
DATE: 09/22/21

SEAL

**TIP PROJECT: R-2233BB**

SHEET NO.  
TMP-1



# ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1170.01	POSITIVE PROTECTION
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.10	PAVEMENT MARKINGS - SCHOOL AREAS
1205.12	PAVEMENT MARKINGS - BRIDGES
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION
1266.01	RAISED PAVEMENT MARKERS - TUBULAR MARKERS

# LEGEND

## GENERAL

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

- WORK AREA
- ON-GOING CONSTRUCTION

THIS PATTERN DELINEATES A DELAY OF ENTRY WORK ZONE AREA (SEE CONTRACT, WRITTEN PHASING, AND TMP PLAN SHEETS FOR DATES AND ADDITIONAL INFORMATION)

REMOVAL

TEMPORARY PAVEMENT WIDENING

PAVEMENT WEDGING

## 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 SCHEDULE

### PAVEMENT MARKINGS PAINT (4")

- PA WHITE EDGELINE
- PB YELLOW EDGELINE
- PC 10 FT. WHITE SKIP
- PD 3 FT. - 9 FT. WHITE MINISKIP
- PE WHITE SOLID LANE LINE
- PF 10 FT. YELLOW SKIP
- PH YELLOW SINGLE CENTER
- PI YELLOW DOUBLE CENTER

### PAVEMENT MARKINGS PAINT (8")

- PP YELLOW DIAGONAL

### PAVEMENT MARKINGS PAINT (24")

- P2 WHITE STOPBAR

### PAVEMENT MARKING SYMBOLS PAINT

- QA LEFT TURN ARROW
- QB RIGHT TURN ARROW
- QD COMBO. STRAIGHT/LEFT ARROW
- QE COMBO. STRAIGHT/RIGHT ARROW
- QI ALPHANUMERIC CHARACTER
- QP MERGE ARROW
- QT U-TURN ARROW

### PAVEMENT MARKINGS TYPE IV COLD APPLIED PLASTIC (4")

- CA WHITE EDGELINE
- CI YELLOW DOUBLE CENTER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PLAN PREPARED IN THE OFFICE OF:  
**PROGRESSIVE DESIGN GROUP, INC.**  
  
 ENGINEERS • CONSULTANTS

APPROVED: DATE: 11/02/21

SEAL

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

TRANSPORTATION  
 MANAGEMENT PLAN  
 ROADWAY STANDARD  
 DRAWINGS & LEGEND



# PROJECT NOTES

## MANAGEMENT STRATEGIES

THE PROJECT WILL BE CONSTRUCTED USING A COMBINATION OF STAGED CONSTRUCTION AND LANE CLOSURES IN ACTIVE ROADWAY LOCATIONS.

## GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

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

### TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
-ALL-	6:00AM-9:00AM, 4:00PM-6:00PM MONDAY THRU FRIDAY

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

ROAD NAME
-ALL-

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 6:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 6:00 P.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 6:00 P.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 6:00 P.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 6:00 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 6:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 6:00 P.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 6:00 P.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

C) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY & TIME RESTRICTIONS	DURATION & OPERATION
-Y2- (US-221)	6:00AM-1:00AM MONDAY THRU SUNDAY	30 MIN CLOSURE FOR OVERHEAD GIRDER INSTALLATION

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

### LANE AND SHOULDER CLOSURE REQUIREMENTS

E) REMOVE LANE CLOSURE FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OF WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER

F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.

G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

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

H) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC MANAGEMENT PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.

I) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

### PAVEMENT EDGE DROP OFF REQUIREMENTS

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

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

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

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

K) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 300 ft IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

### TRAFFIC PATTERN ALTERATIONS

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



### SIGNING

M) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

N) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

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<p style="font-size: small;">PLAN PREPARED IN THE OFFICE OF:</p> <p style="font-weight: bold; font-size: large;">PROGRESSIVE</p> <p style="font-size: small;">DESIGN GROUP, INC.</p> <div style="display: flex; justify-content: space-around; width: 100%;"> <div style="width: 15px; height: 15px; background-color: #ccc;"></div> <div style="width: 15px; height: 15px; background-color: #ccc;"></div> <div style="width: 15px; height: 15px; background-color: #ccc;"></div> <div style="width: 15px; height: 15px; background-color: #ccc;"></div> <div style="width: 15px; height: 15px; background-color: #ccc;"></div> <div style="width: 15px; height: 15px; background-color: #000;"></div> </div> <p style="font-size: x-small;">ENGINEERS • CONSULTANTS</p>	<p style="font-size: x-small;">APPROVED: <i>Tim Are</i> DATE: 09/22/21</p> <div style="text-align: center;">  <p>SEAL</p> </div>	<div style="text-align: center;">  </div>	<h2 style="margin: 0;">TRANSPORTATION OPERATIONS PLAN</h2>
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# PROJECT NOTES

## GENERAL NOTES

- O) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

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

- Q) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 300 ft IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

### TRAFFIC BARRIER

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

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

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

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

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

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

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

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

### TRAFFIC CONTROL DEVICES

- T) 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.

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

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

### PAVEMENT MARKINGS AND MARKERS

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

<u>ROAD NAME</u>	<u>MARKING</u>	<u>MARKER</u>
ALL ROADS	PAINT	TEMPORARY RAISED
BRIDGE DECKS	COLD APPLIED PLASTIC (TYPE IV - REMOVABLE TAPE)	TEMPORARY RAISED

- X) 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.

- Y) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

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

- AA) TRACE THE EXISTING AND PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO REMOVAL AND INSTALLATION. PLACE DRUMS TO DELINEATE ANY EXISTING AND PROPOSED MONOLITHIC ISLANDS AFTER REMOVAL AND BEFORE INSTALLATION


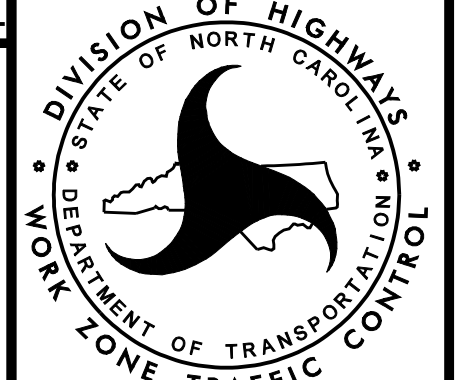
### MISCELLANEOUS

- BB) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER. THE DEPARTMENT WILL PROVIDE POLICE CONTROL AT INTERSECTIONS WHEN REQUIRED. PROVIDE PORTABLE LIGHTING FOR LAW ENFORCEMENT WHEN THEY ARE CONTROLLING TRAFFIC AT INTERSECTIONS AT NIGHTTIME.

- CC) ALL CURB RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH THE SIGNING AND DELINEATION UNIT.

- DD) 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.).

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<p style="font-size: small;">PLAN PREPARED IN THE OFFICE OF:</p> <p style="font-weight: bold; font-size: large;">PROGRESSIVE</p> <p style="font-size: small;">DESIGN GROUP, INC.</p> <div style="display: flex; justify-content: space-around; width: 100%;"> <div style="width: 15px; height: 15px; background-color: #ccc; border: 1px solid #000;"></div> <div style="width: 15px; height: 15px; background-color: #ccc; border: 1px solid #000;"></div> <div style="width: 15px; height: 15px; background-color: #ccc; border: 1px solid #000;"></div> <div style="width: 15px; height: 15px; background-color: #ccc; border: 1px solid #000;"></div> <div style="width: 15px; height: 15px; background-color: #ccc; border: 1px solid #000;"></div> <div style="width: 15px; height: 15px; background-color: #000; border: 1px solid #000;"></div> </div> <p style="font-size: x-small; text-align: center;">ENGINEERS • CONSULTANTS</p>	<p style="font-size: x-small;">APPROVED: <u>Tim Are</u> DATE: 09/22/23</p> <div style="text-align: center;">  <p>SEAL</p> </div>	<div style="text-align: center;">  </div>	<h2 style="margin: 0;">TRANSPORTATION OPERATIONS PLAN</h2>
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# PHASING

## PHASE I

STEP 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS ON ALL ROADWAYS WITHIN THE PROJECT LIMITS ACCORDING TO ROADWAY STANDARD DRAWING NO. 1101.01.

DELAY OF ENTRY NOTICE: CONTRACTOR IS HEREBY NOTIFIED THAT A DELAY OF ENTRY DUE TO UTILITY CONFLICTS IS IMPOSED ON THE FOLLOWING ROADWAYS UNTIL JANUARY 1, 2023. NO CONSTRUCTION ACCESS TO THESE LOCATIONS WILL BE ALLOWED FROM THE CONTRACT AWARD DATE UNTIL JANUARY 1, 2023. WORK LOCATIONS IDENTIFIED IN PHASE I, STEP 2 SHALL BE SCHEDULED TO MEET THE CALENDAR REQUIREMENTS OF THIS DELAY OF ENTRY NOTICE.

- Y16-: NO CONSTRUCTION ACCESS UNTIL JANUARY 1, 2023.
- Y17-: NO CONSTRUCTION ACCESS UNTIL JANUARY 1, 2023.
- Y19-: NO CONSTRUCTION ACCESS UNTIL JANUARY 1, 2023.
- Y25-: NO CONSTRUCTION ACCESS UNTIL JANUARY 1, 2023.
- L3-: STA. 941+00 TO THE END OF THE PROJECT LIMITS UNTIL JANUARY 1, 2023.

STEP 2: USING LANE AND SHOULDER CLOSURES AS NECESSARY (ACCORDING TO THE REQUIREMENTS DESCRIBED IN GENERAL NOTES 'F', 'G', 'H', AND 'I' OF THE TRANSPORTATION MANAGEMENT PLAN) BEGIN CONSTRUCTION ON THE FOLLOWING:

- L3-: IN THE LOCATIONS SHOWN ON SHEETS TMP-4 THRU TMP-12. -Y- LINES DESIGNED WITH PERMANENT CLOSURES MAY BE CLOSED AS -L3- CONSTRUCTION ENCROACHES UPON THEM.
- Y25REV-, -Y25EXT-: IN THE LOCATIONS SHOWN ON SHEET TMP-4.
- Y74-: IN THE LOCATIONS SHOWN ON SHEET TMP-4.
- DR2-: IN THE LOCATIONS SHOWN ON SHEET TMP-4.
- RPB-, -LPB-, -RPC-, -LPC-: IN THE LOCATIONS SHOWN ON SHEET TMP-5.
- RPA-, -LPA-, -RPD-, -LPD-: IN THE LOCATIONS SHOWN ON SHEET TMP-7.
- Y3-: IN THE LOCATIONS SHOWN ON SHEET TMP-7, TMP-13, TMP-18 AND TMP-19.
- Y3- TEMPORARY PAVEMENT: IN THE LOCATIONS SHOWN ON SHEET TMP-7, TMP-17 AND TMP-18.
- Y5-: IN THE LOCATIONS SHOWN ON SHEET TMP-8.
- Y8-: IN THE LOCATIONS SHOWN ON SHEETS TMP-9 AND TMP-10.
- Y10-: IN THE LOCATIONS SHOWN ON SHEET TMP-9.
- Y12-: IN THE LOCATIONS SHOWN ON SHEETS TMP-9 AND TMP-10.
- Y9-: IN THE LOCATIONS SHOWN ON SHEET TMP-11.
- Y11-: IN THE LOCATIONS SHOWN ON SHEET TMP-11.
- Y7-: IN THE LOCATIONS SHOWN ON SHEET TMP-12.
- Y5-: IN THE LOCATIONS SHOWN ON SHEETS TMP-8 AND TMP-13.

-Y2-: USING LANE CLOSURES AS NECESSARY (ACCORDING TO THE REQUIREMENTS DESCRIBED IN GENERAL NOTES 'G', 'H', AND 'I' OF THE TRANSPORTATION MANAGEMENT PLAN) INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS IN THE PATTERN SHOWN ON SHEETS TMP-14 THRU TMP-16 AND PLACE -Y2- TRAFFIC IN THE PATTERN SHOWN ON SHEETS TMP-14 THRU TMP-16. INSTALL TEMPORARY GUARDRAIL, WATER FILLED BARRIER AND PORTABLE CONCRETE BARRIER ALONG -Y2- IN THE LOCATIONS SHOWN ON SHEETS TMP-14 THRU TMP-16. CONSTRUCT THE PROPOSED -L3- BRIDGE END BENTS AND INSTALL THE PROPOSED 42" AND 54" RCP STORMWATER LINES ALONG THE RIGHT SIDE OF -Y2- IN THE LOCATIONS SHOWN ON SHEETS TMP-14 THRU TMP-16.

-Y7A-: USING TYPE III BARRICADES AND DRUMS, CLOSE THE EXISTING -Y7A- INTERSECTION WITH -L3- AND CONSTRUCT PROPOSED -Y7A- IN THE LOCATIONS SHOWN ON SHEET TMP-22.

INTERMEDIATE CONTRACT TIME: COMPLETE THE WORK REQUIRED OF PHASE I, STEP 3 THRU STEP 4 IN 300 CONSECUTIVE CALENDAR DAYS.

STEP 3: INSTALL OFFSITE DETOUR SIGNS FOR THE -Y19- ROAD CLOSURE AS SHOWN ON SHEET TMP-2 AND CLOSE -Y19- TO THRU TRAFFIC. CONSTRUCT PROPOSED -Y19- BRIDGE OVER -L3- AND -Y19- ROADWAY APPROACHES IN THE LOCATIONS SHOWN ON SHEET TMP-6.

STEP 4: INSTALL TEMPORARY PAINT PAVEMENT MARKINGS AND MARKERS ON -Y19- IN THE LOCATIONS SHOWN ON SHEET TMP-30. REMOVE ALL ROAD CLOSURE DEVICES AND RE-OPEN -Y19- TO THE TRAFFIC PATTERN SHOWN ON SHEET TMP-30.

## PHASE IA

STEP 1: CONSTRUCT PROPOSED -Y6- AND -Y23- IN THE LOCATIONS SHOWN ON SHEET TMP-25. INSTALL TEMPORARY PAINT PAVEMENT MARKINGS AND MARKERS ON -Y6- AND -Y23- IN THE LOCATIONS SHOWN ON SHEET TMP-26 AND PLACE -Y6- AND -23- TRAFFIC IN THE PATTERN SHOWN ON SHEET TMP-26.

## PHASE IB

INTERMEDIATE CONTRACT TIME: COMPLETE THE WORK REQUIRED OF PHASE IB, STEP 1 THRU STEP 2 IN 21 CONSECUTIVE CALENDAR DAYS.

STEP 1: INSTALL OFFSITE DETOUR SIGNS FOR THE -Y6- (ROCK ROAD) ROAD CLOSURE AS SHOWN ON SHEET TMP-2A AND CLOSE -Y6- (ROCK ROAD) TO THRU TRAFFIC. CONSTRUCT PROPOSED -Y6- AND -Y22A- IN THE LOCATIONS SHOWN ON SHEET TMP-26.

STEP 2: INSTALL TEMPORARY PAINT PAVEMENT MARKINGS AND MARKERS ON -Y6- AND -Y22A- IN THE PATTERN SHOWN ON SHEET TMP-27. REMOVE -Y6- ROAD CLOSURE DEVICES (EXCEPT THE TYPE III BARRICADES AT THE -Y3- INTERSECTION AND RE-OPEN -Y6- TO THE TRAFFIC PATTERN SHOWN ON SHEET TMP-27.

## PHASE II

STEP 1: COMPLETE CONSTRUCTION ON -Y25REV-, -Y25EXT- AND -Y74- IN THE LOCATIONS SHOWN ON SHEET TMP-4. USING LANE CLOSURES AS NECESSARY (ACCORDING TO THE REQUIREMENTS DESCRIBED IN GENERAL NOTES 'G', 'H', AND 'I' OF THE TRANSPORTATION MANAGEMENT PLAN) INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -Y25REV-, -Y25EXT- AND -Y74- IN THE PATTERN SHOWN ON SHEET TMP-28 AND PLACE -Y25REV-, -Y25EXT- AND -Y74- TRAFFIC IN THE PATTERN SHOWN ON SHEET TMP-28. BEGIN CONSTRUCTION ON THE SECTION OF -L3- SHOWN ON SHEET TMP-28.

STEP 2: USING LANE CLOSURES AS NECESSARY (ACCORDING TO THE REQUIREMENTS DESCRIBED IN GENERAL NOTES 'G', 'H', AND 'I' OF THE TRANSPORTATION MANAGEMENT PLAN) INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS ALONG -Y2- IN THE PATTERN SHOWN ON SHEETS TMP-38 THRU TMP-40 AND PLACE -Y2- TRAFFIC IN THE PATTERN SHOWN ON SHEETS TMP-38 THRU TMP-40. INSTALL WATER FILLED BARRIER AND PORTABLE CONCRETE BARRIER ALONG -Y2- IN THE LOCATIONS SHOWN ON SHEETS TMP-38 THRU TMP-40. INSTALL THE REMAINING PORTIONS OF THE PROPOSED 54" RCP CROSS PIPES ALONG THE LEFT SIDE OF -Y2- AND CONSTRUCT THE PROPOSED LEFT SIDE -Y2- WIDENING IN THE LOCATIONS SHOWN ON SHEETS TMP-38 THRU TMP-40.

STEP 3: USING LANE CLOSURES AS NECESSARY (ACCORDING TO THE REQUIREMENTS DESCRIBED IN GENERAL NOTES 'G', 'H', AND 'I' OF THE TRANSPORTATION MANAGEMENT PLAN) INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS ALONG -Y3- IN THE PATTERN SHOWN ON SHEETS TMP-41 AND TMP-42 AND PLACE -Y3- TRAFFIC IN THE PATTERN SHOWN ON SHEETS TMP-41 AND TMP-42. BEGIN CONSTRUCTION ON PROPOSED -Y3-, -Y3- TEMPORARY PAVEMENT WIDENING AND -Y18DET- IN THE LOCATIONS SHOWN ON SHEETS TMP-41 AND TMP-42.

STEP 4: PERMANENTLY CLOSE THE -Y23- INTERSECTION WITH -Y3-. USING LANE CLOSURES (ACCORDING TO THE REQUIREMENTS DESCRIBED IN GENERAL NOTES 'G', 'H', AND 'I' OF THE TRANSPORTATION MANAGEMENT PLAN) WEDGE UP EXISTING -Y4- TO THE PROPOSED ELEVATION IN THE LOCATIONS SHOWN ON SHEET TMP-43. TRANSITION THE -Y4- WEDGING ONTO -Y3- IN ORDER TO KEEP A SMOOTH THRU TRANSITION ALONG -Y3-. INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS ALONG -Y3- AND -Y4- BACK TO THE ORIGINAL PATTERN BEFORE THE COMPLETION OF EACH WORK PERIOD AS THE WEDGING OPERATION PROCEEDS.

STEP 5: COMPLETE CONSTRUCTION ON -L3-, -Y7- AND -Y11- IN THE LOCATIONS SHOWN ON SHEETS TMP-11, TMP-12 AND TMP-20 THRU TMP-24. USING LANE CLOSURES (ACCORDING TO THE REQUIREMENTS DESCRIBED IN GENERAL NOTES 'G', 'H', AND 'I' OF THE TRANSPORTATION MANAGEMENT PLAN) INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS ALONG -L3-, -Y7- AND -Y11- IN THE PATTERNS SHOWN ON SHEETS TMP-35 AND TMP-44 THRU TMP-48 AND PLACE -L3-, -Y7- AND -Y11- TRAFFIC IN THE PATTERN SHOWN ON SHEETS TMP-35 AND TMP-44 THRU TMP-48. BEGIN CONSTRUCTION ON PROPOSED -L3- IN THE LOCATIONS SHOWN ON SHEETS TMP-44 THRU TMP-48.

STEP 6: COMPLETE CONSTRUCTION ON -Y12- IN THE LOCATIONS SHOWN ON SHEETS TMP-9 AND TMP-10. USING LANE CLOSURES (ACCORDING TO THE REQUIREMENTS DESCRIBED IN GENERAL NOTES 'G', 'H', AND 'I' OF THE TRANSPORTATION MANAGEMENT PLAN) INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS ALONG -Y12- IN THE PATTERNS SHOWN ON SHEETS TMP-33 AND TMP-34 AND PLACE -Y12- TRAFFIC IN THE PATTERN SHOWN ON SHEETS TMP-33 AND TMP-34. BEGIN CONSTRUCTION ON PROPOSED -Y10- IN THE LOCATION SHOWN ON SHEET TMP-33.

## PHASE III

STEP 1: USING LANE CLOSURES AS NECESSARY (ACCORDING TO THE REQUIREMENTS DESCRIBED IN GENERAL NOTES 'G', 'H', AND 'I' OF THE TRANSPORTATION MANAGEMENT PLAN) INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS ALONG -Y2- IN THE PATTERN SHOWN ON SHEETS TMP-59 THRU TMP-61 AND PLACE -Y2- TRAFFIC IN THE PATTERN SHOWN ON SHEETS TMP-59 THRU TMP-61. CONSTRUCT THE PROPOSED -Y2- MEDIAN ISLANDS ALONG -Y2-, -Y25- AND -Y25A- IN THE LOCATIONS SHOWN ON SHEETS TMP-59 THRU TMP-61.

STEP 2: INSTALL PROPOSED TRAFFIC SIGNAL AT THE -Y3-/-Y4- INTERSECTION INTO THE TEMPORARY TRAFFIC PATTERN SHOWN ON SHEET TMP-64. USING LANE CLOSURES AS NECESSARY (ACCORDING TO THE REQUIREMENTS DESCRIBED IN GENERAL NOTES 'G', 'H', AND 'I' OF THE TRANSPORTATION MANAGEMENT PLAN) INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS ALONG -Y3-, -Y4- AND -Y18- IN THE PATTERN SHOWN ON SHEETS TMP-62 THRU TMP-64 AND PLACE -Y3-, -Y4- AND -Y18- TRAFFIC IN THE PATTERN SHOWN ON SHEETS TMP-62 THRU TMP-64.

BEGIN CONSTRUCTION ON PROPOSED -Y3- FROM STA. 13+25+/- TO STA. 20+40+/- AS SHOWN ON SHEETS TMP-62 AND TMP-63.

CONSTRUCT PROPOSED -Y3- FROM STA. 20+40+/- TO STA. 21+35+/- AND -Y18- IN THE LOCATIONS SHOWN ON SHEET TMP-63.

STEP 3: USING LANE AND SHOULDER CLOSURES AS NECESSARY (ACCORDING TO THE REQUIREMENTS DESCRIBED IN GENERAL NOTES 'F', 'G', 'H', AND 'I' OF THE TRANSPORTATION MANAGEMENT PLAN) INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS ALONG -Y18- AND ALONG -Y3- AT THE -Y18- INTERSECTION IN THE PATTERNS SHOWN ON SHEET TMP-70 AND PLACE -Y18- TRAFFIC IN THE PATTERN SHOWN ON SHEET TMP-70. CONSTRUCT THE REMAINING SECTION OF PROPOSED -Y18- AND REMOVE -Y18DET- IN THE LOCATIONS SHOWN ON SHEET TMP-70.

STEP 4: COMPLETE CONSTRUCTION ON -L3- IN THE LOCATIONS SHOWN ON SHEETS TMP-44 THRU TMP-48. USING LANE CLOSURES (ACCORDING TO THE REQUIREMENTS DESCRIBED IN GENERAL NOTES 'G', 'H', AND 'I' OF THE TRANSPORTATION MANAGEMENT PLAN) INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS ALONG -L3- IN THE PATTERNS SHOWN ON SHEETS TMP-65 THRU TMP-69 AND PLACE -L3- TRAFFIC IN THE PATTERN SHOWN ON SHEETS TMP-65 THRU TMP-69. CONSTRUCT THE REMAINING SECTIONS OF PROPOSED -L3- IN THE LOCATIONS SHOWN ON SHEETS TMP-65 THRU TMP-69.

STEP 5: COMPLETE CONSTRUCTION ON -Y8- AND -Y10- IN THE LOCATIONS SHOWN ON SHEETS TMP-9 AND TMP-10. USING LANE CLOSURES (ACCORDING TO THE REQUIREMENTS DESCRIBED IN GENERAL NOTES 'G', 'H', AND 'I' OF THE TRANSPORTATION MANAGEMENT PLAN) INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS ALONG -Y8- AND -Y10- IN THE PATTERNS SHOWN IN THE FINAL PAVEMENT MARKING PLANS AND PLACE -Y8- AND -Y10- TRAFFIC IN THE PATTERN SHOWN ON SHEETS TMP-54 AND TMP-55. CONSTRUCT THE REMAINING SECTIONS OF PROPOSED -L3- IN THE LOCATIONS SHOWN ON SHEET TMP-55.


STEP 6: USING LANE AND SHOULDER CLOSURES AS NECESSARY (ACCORDING TO THE REQUIREMENTS DESCRIBED IN GENERAL NOTES 'F', 'G', 'H', AND 'I' OF THE TRANSPORTATION MANAGEMENT PLAN) PLACE THE FINAL LAYER OF SURFACE COURSE, FINAL PAVEMENT MARKINGS AND MARKERS ON ALL ROADWAYS WITHIN THE PROJECT LIMITS. REFER TO THE FINAL PAVEMENT MARKING AND SIGNING PLANS FOR EXITING ALL TRAFFIC AT -Y2-. PLACE ALL TRAFFIC IN THE FINAL PATTERN.

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PROGRESSIVE


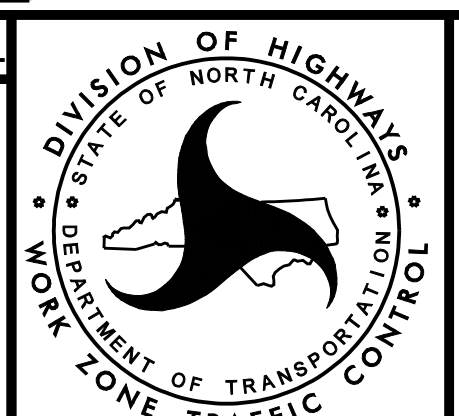
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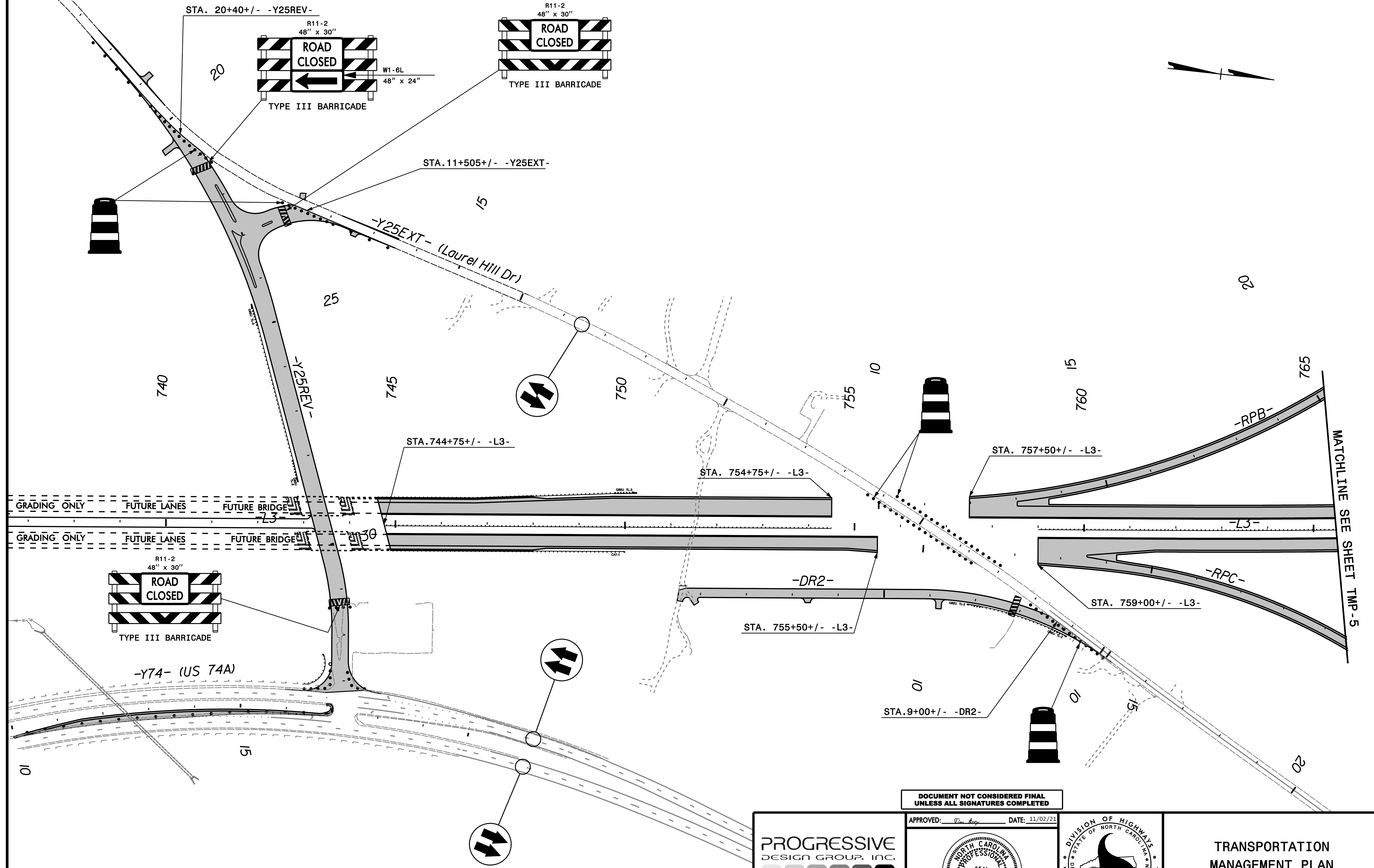
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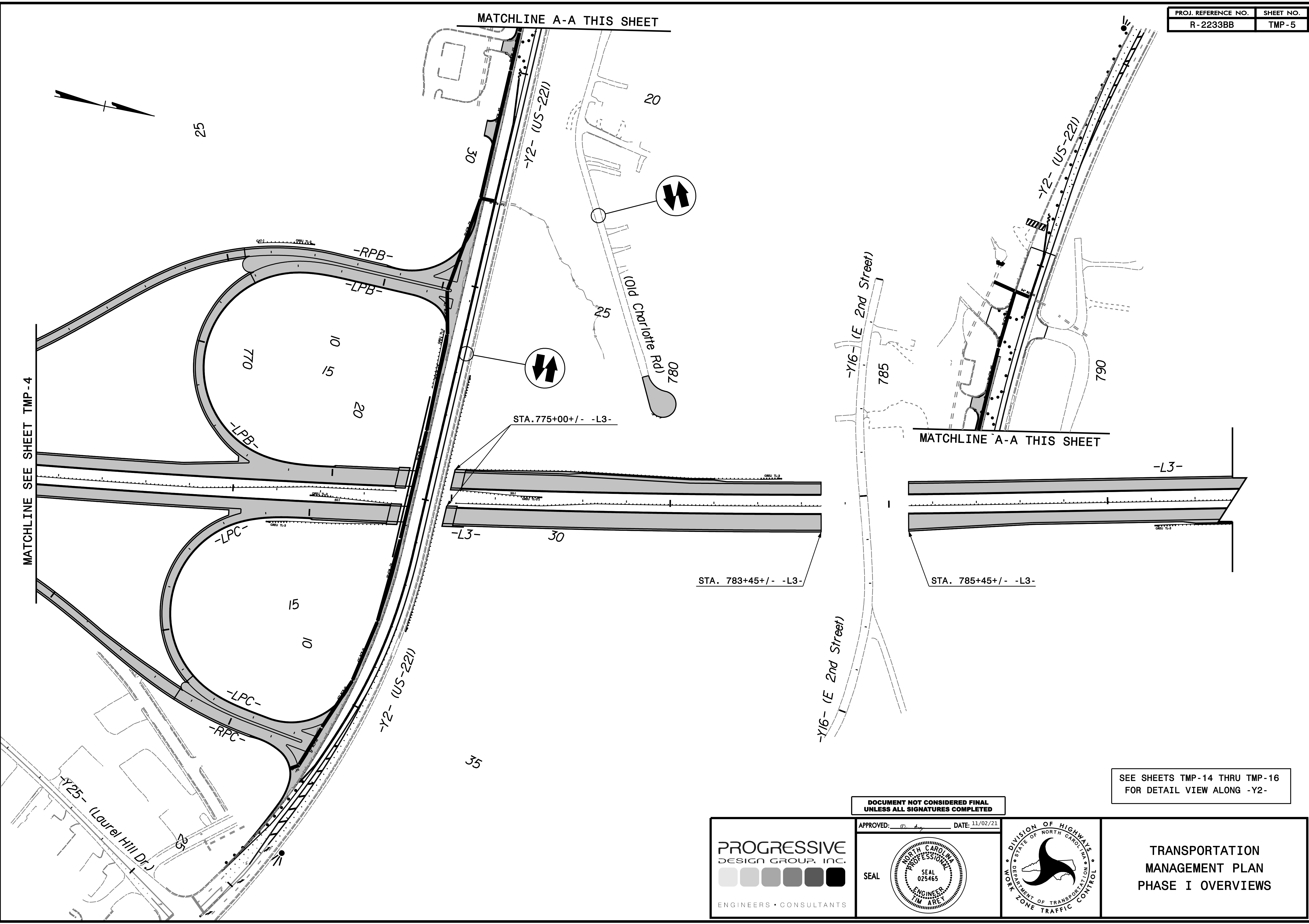
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M.A.R.E.

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

TRANSPORTATION  
MANAGEMENT PLAN  
PHASE I OVERVIEWS





MATCHLINE SEE SHEET TMP-4

MATCHLINE A-A THIS SHEET

MATCHLINE A-A THIS SHEET

SEE SHEETS TMP-14 THRU TMP-16 FOR DETAIL VIEW ALONG -Y2-

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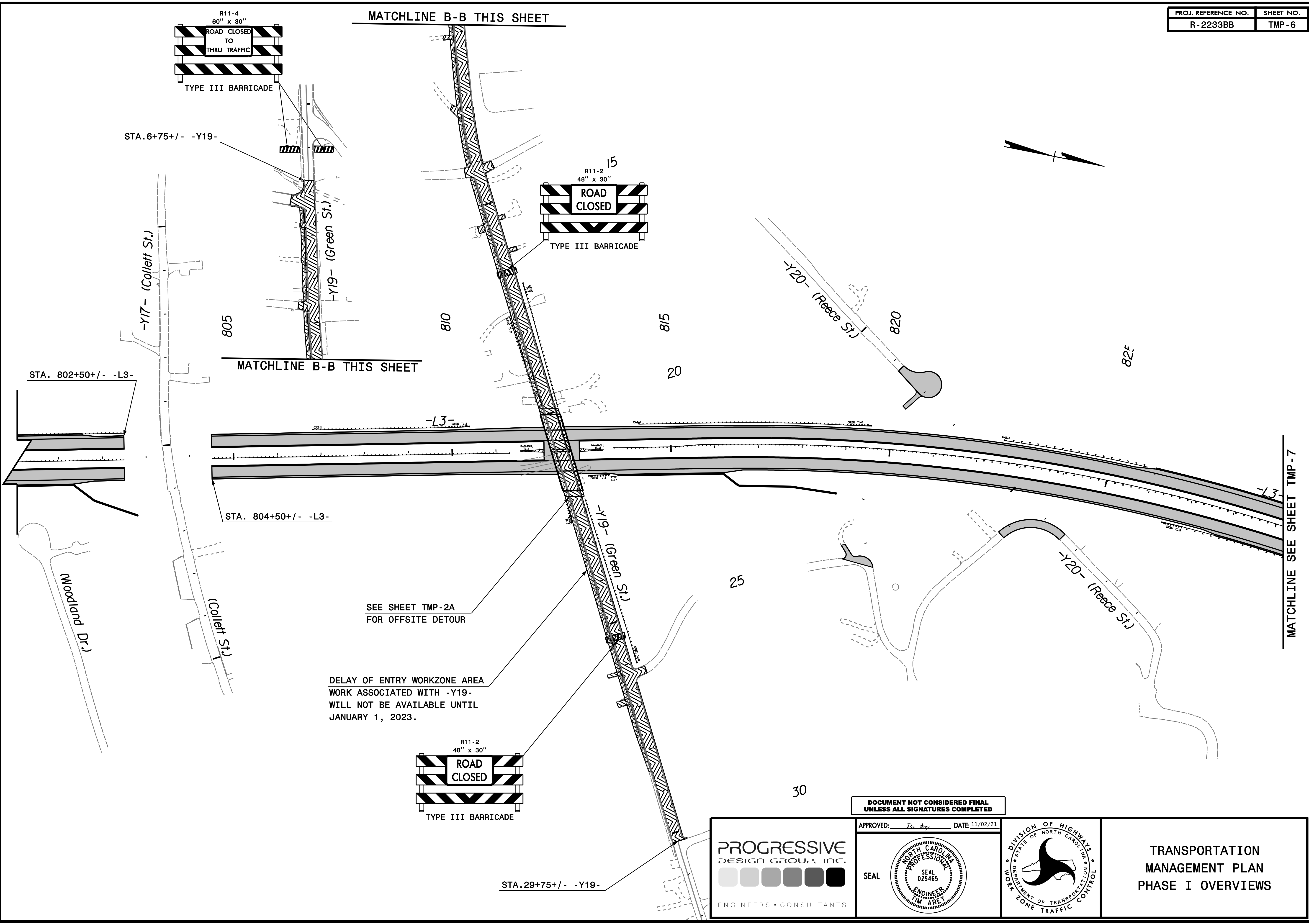
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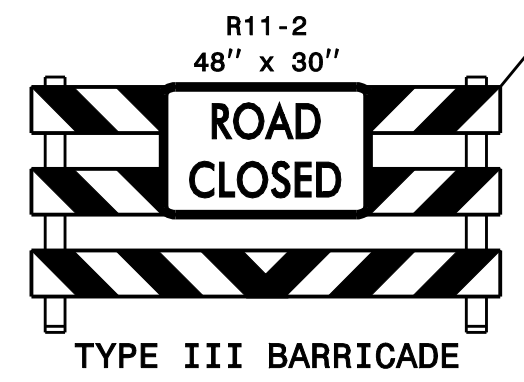
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SEE SHEET TMP-2A  
FOR OFFSITE DETOUR

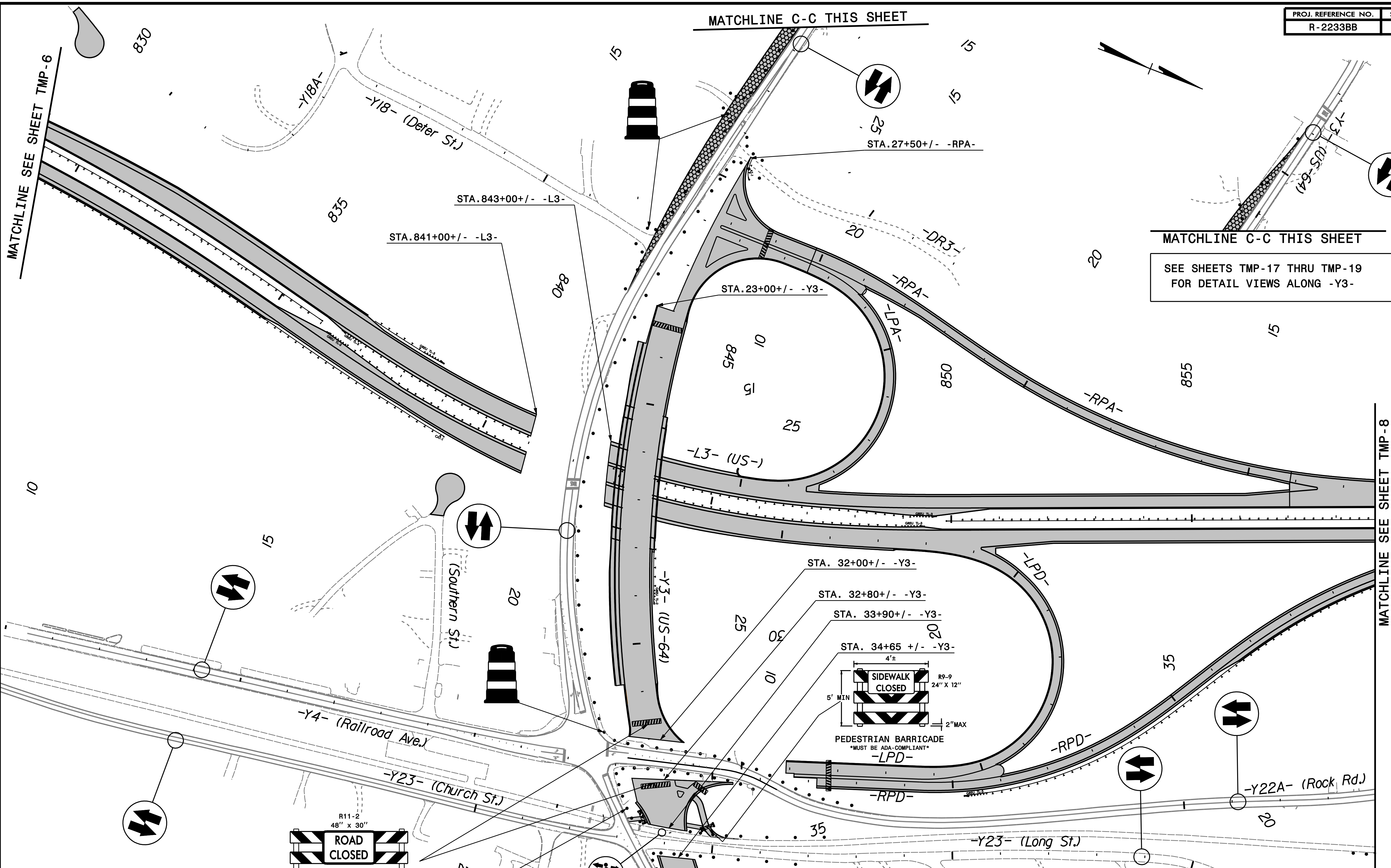
DELAY OF ENTRY WORKZONE AREA  
WORK ASSOCIATED WITH -Y19-  
WILL NOT BE AVAILABLE UNTIL  
JANUARY 1, 2023.



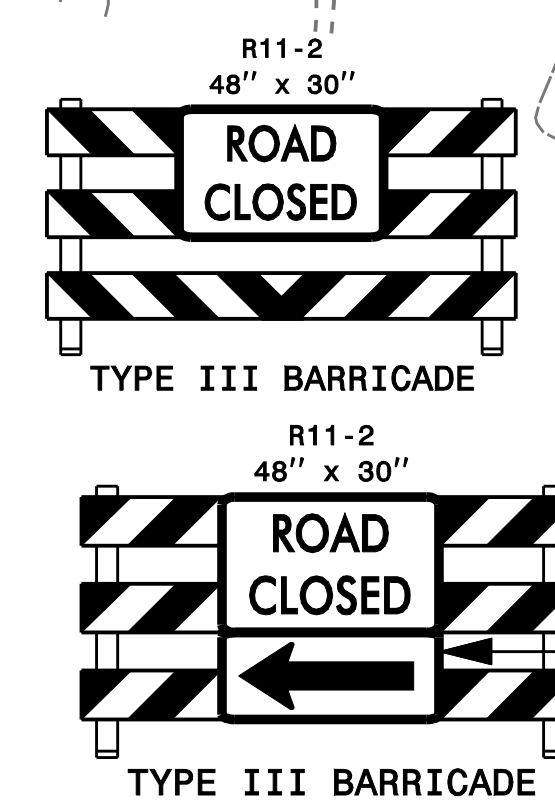
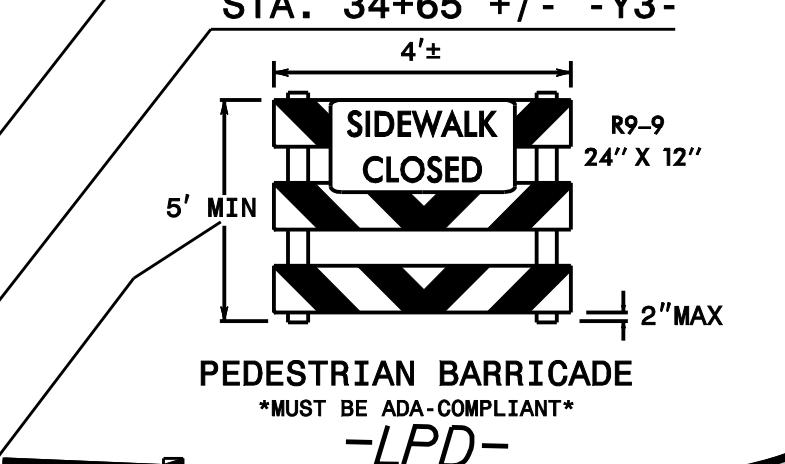
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MATCHLINE SEE SHEET TMP-7





SEE SHEETS TMP-17 THRU TMP-19  
FOR DETAIL VIEWS ALONG -Y3-



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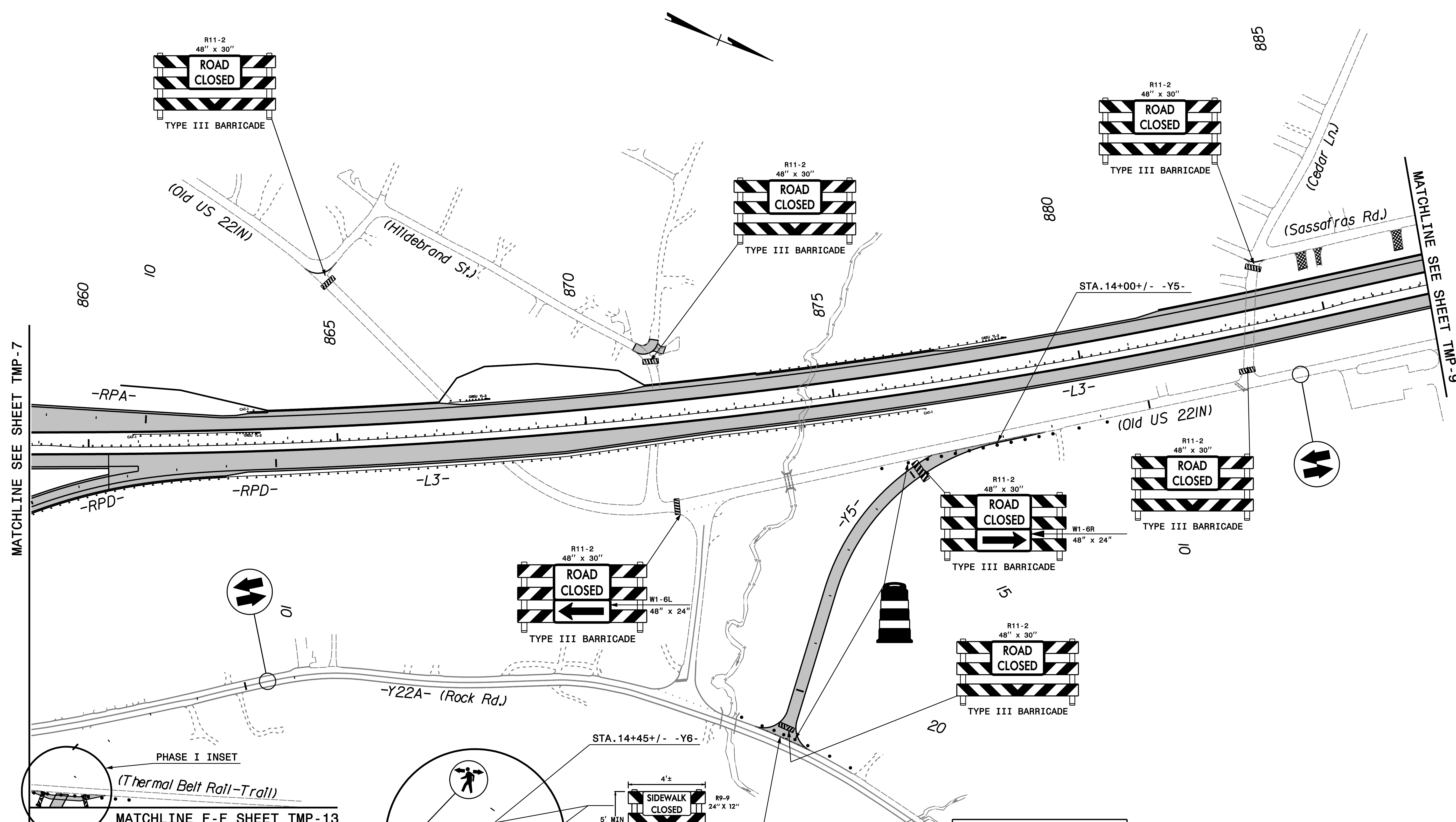
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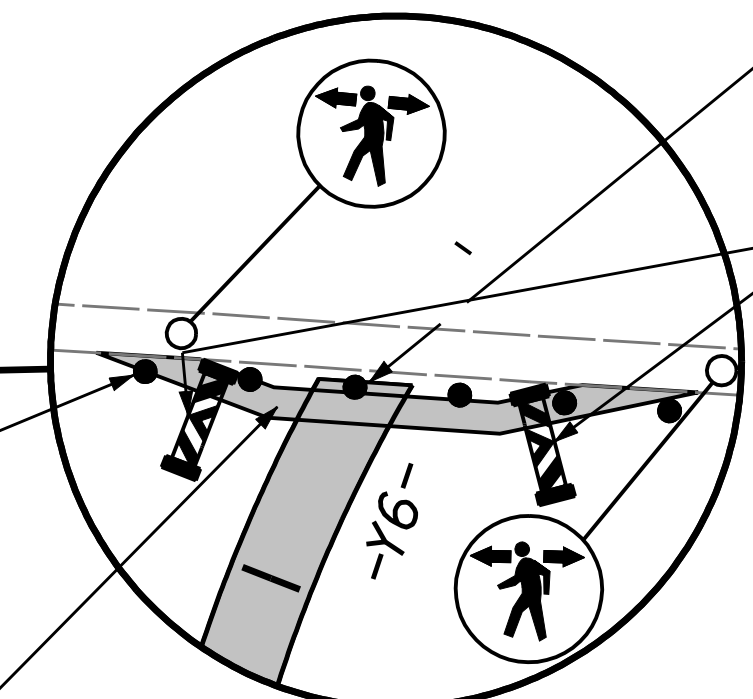
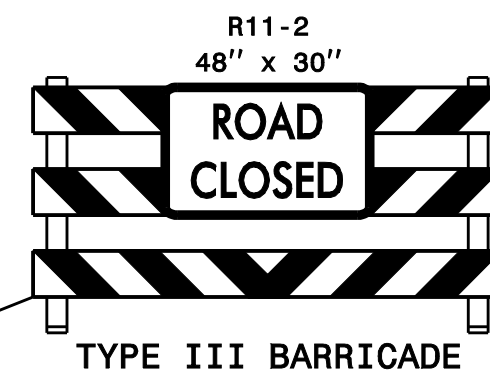
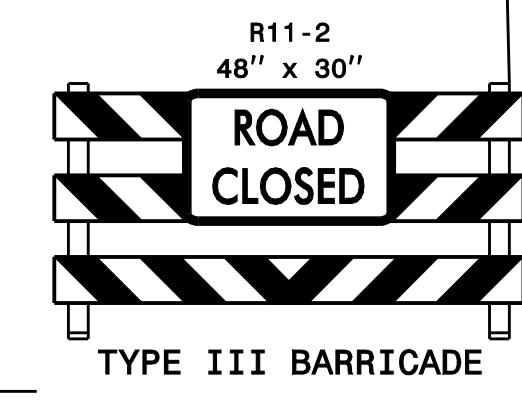
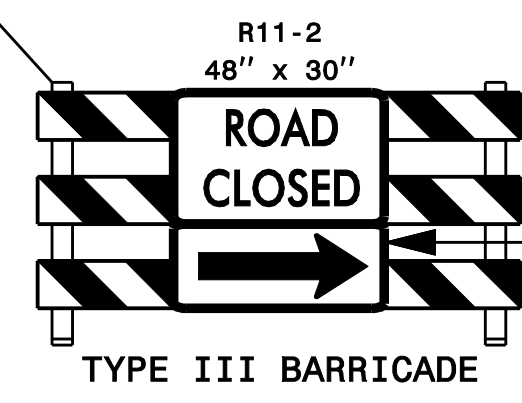
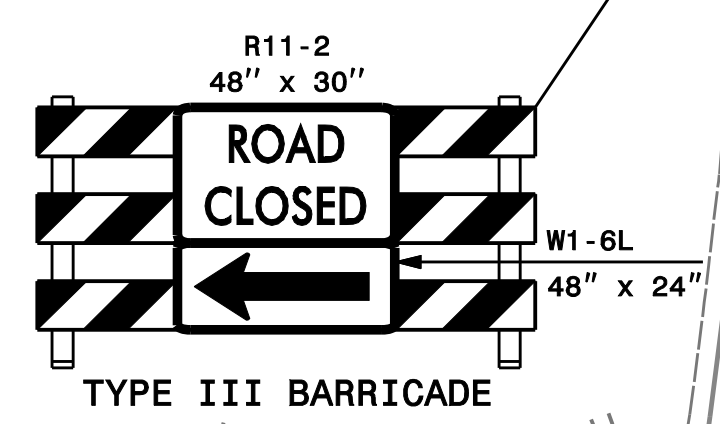


MATCHLINE SEE SHEET TMP-7

MATCHLINE SEE SHEET TMP-9

PHASE I INSET  
(Thermal Belt Rail-Trail)  
MATCHLINE F-F SHEET TMP-13

8' WIDE TEMPORARY PAVEMENT FOR -TR2-  
USE TYPICAL 12 FROM THE ROADWAY DESIGN  
PLANS FOR TEMPORARY PEDESTRIAN PATHS.



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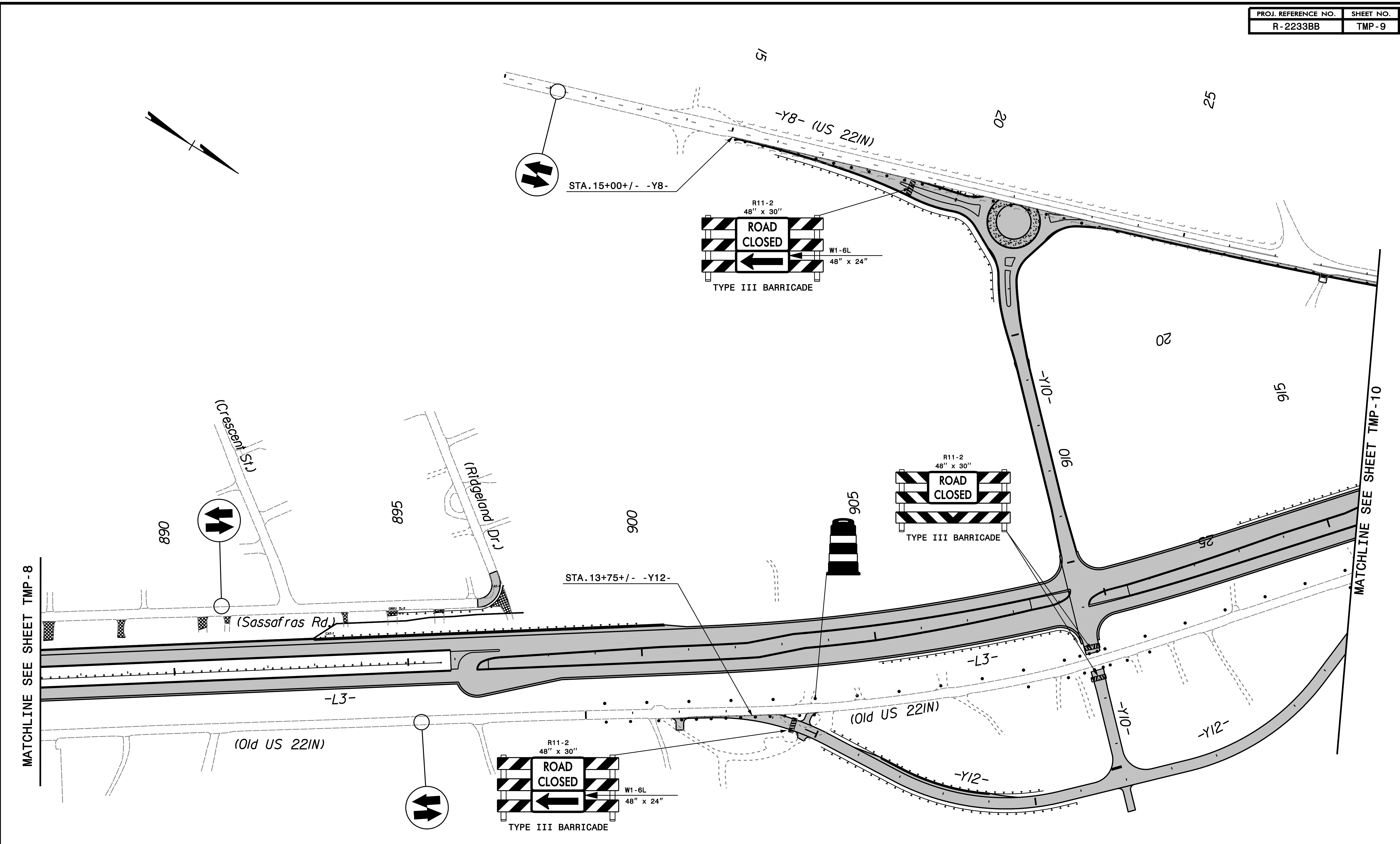
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MATCHLINE SEE SHEET TMP-8

MATCHLINE SEE SHEET TMP-10

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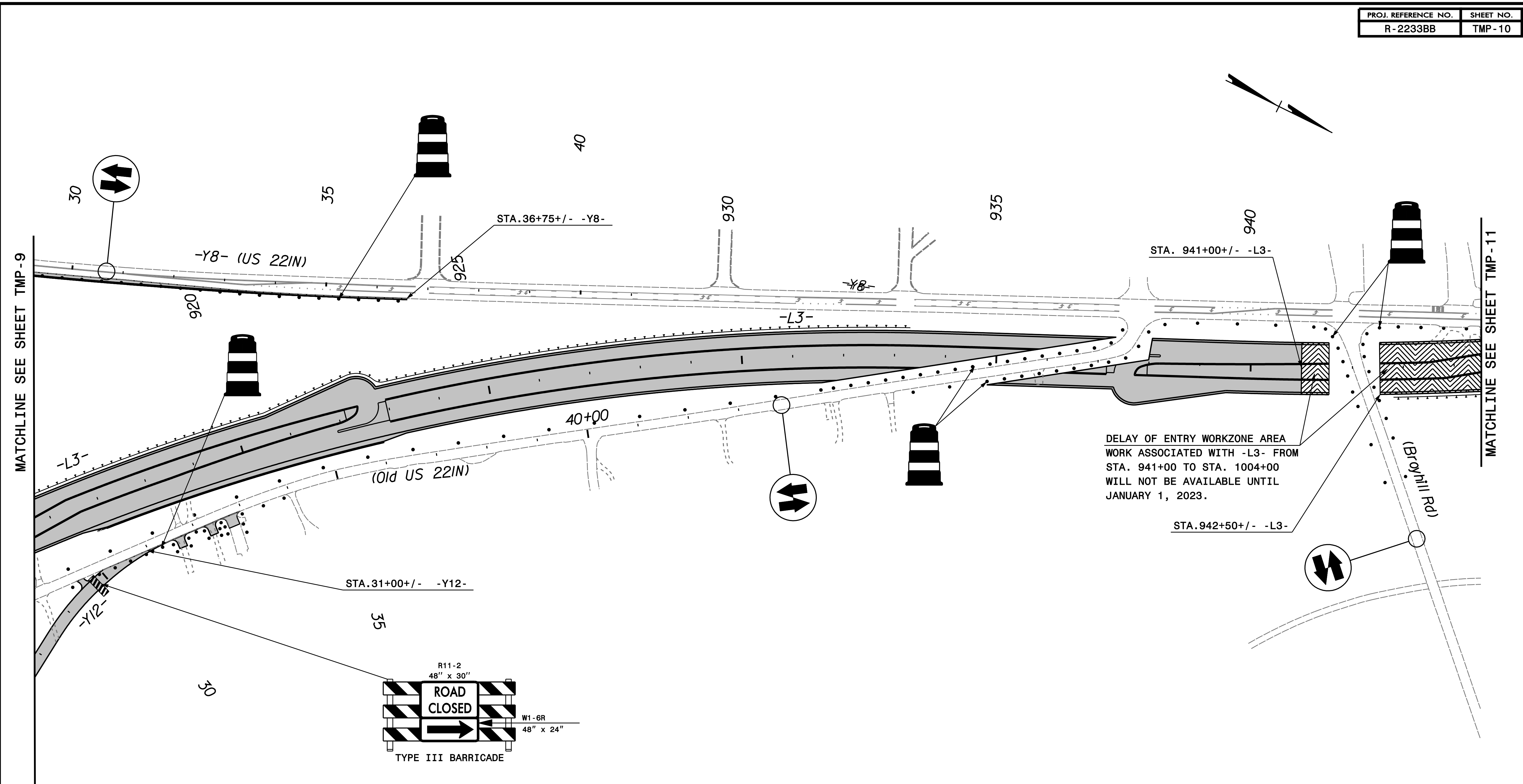
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DELAY OF ENTRY WORKZONE AREA  
 WORK ASSOCIATED WITH -L3- FROM  
 STA. 941+00 TO STA. 1004+00  
 WILL NOT BE AVAILABLE UNTIL  
 JANUARY 1, 2023.

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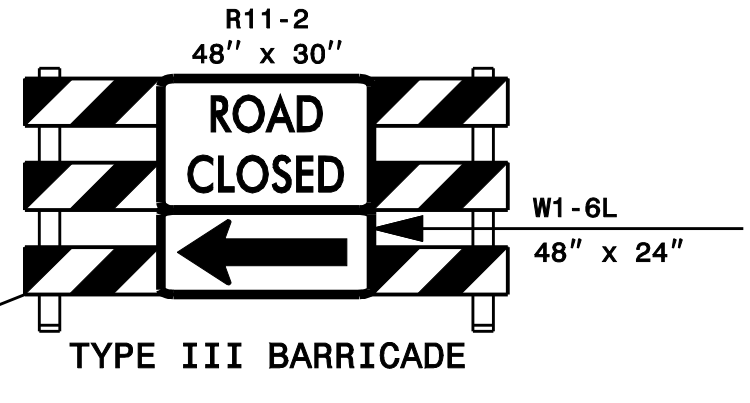
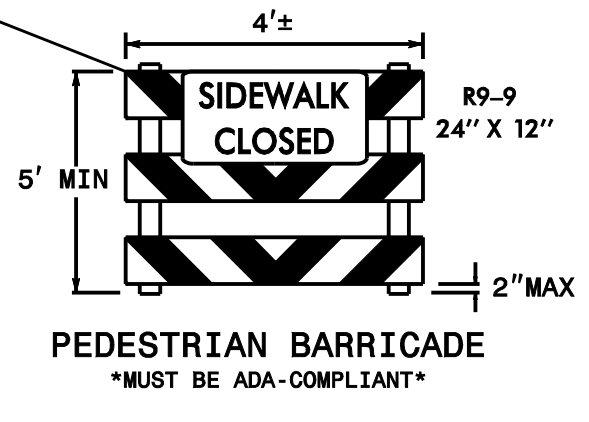
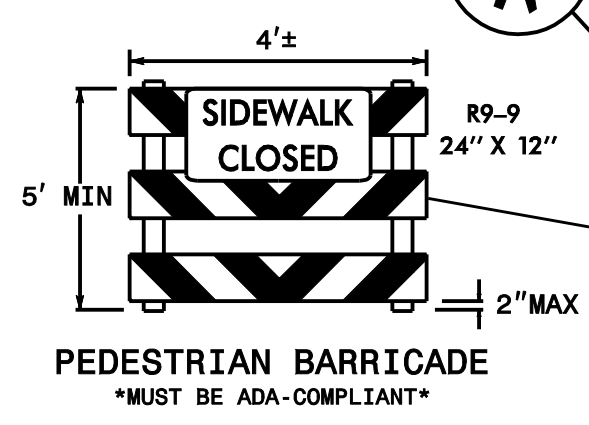
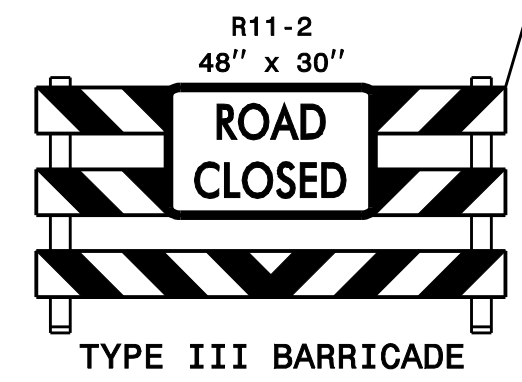
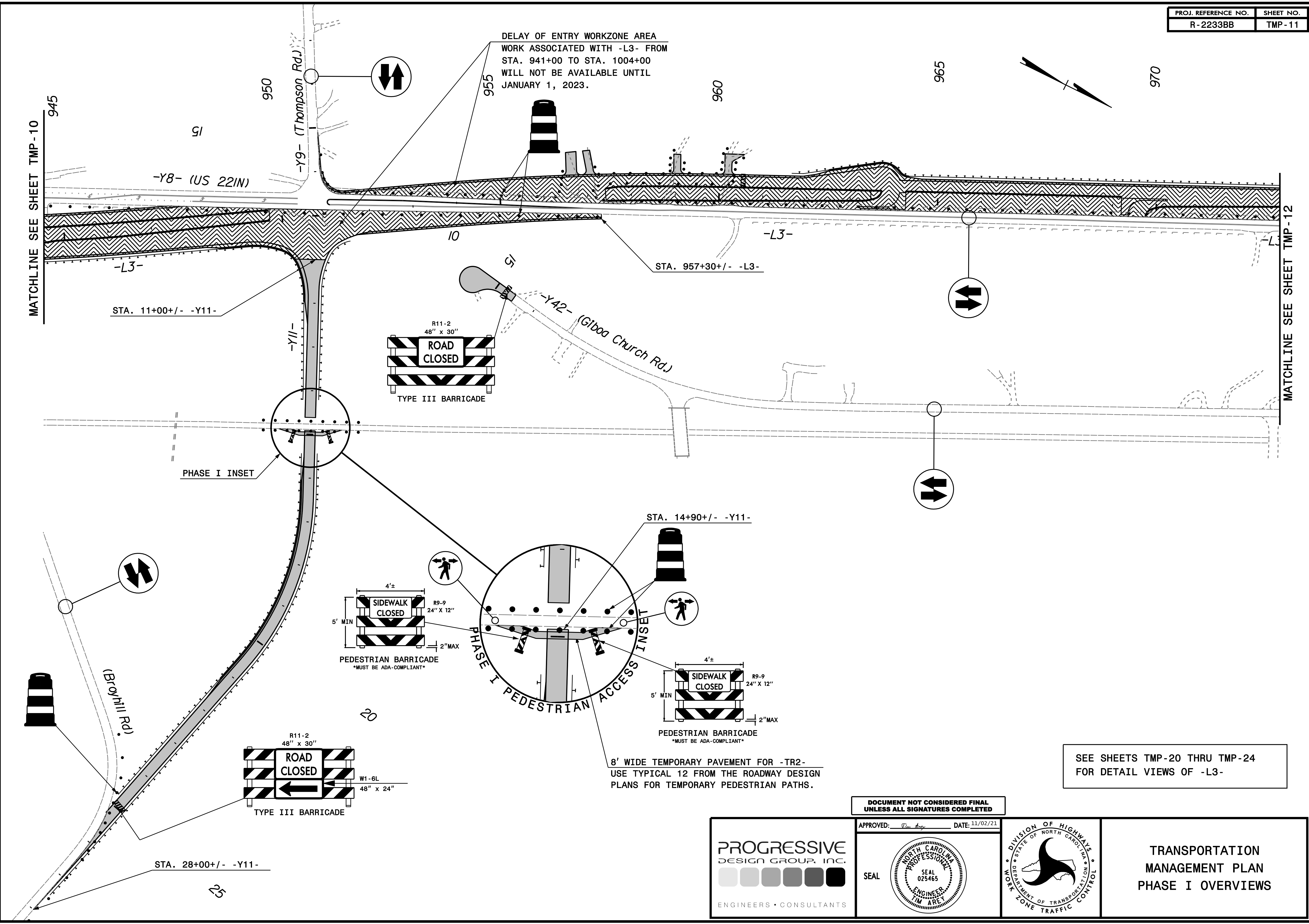
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SEE SHEETS TMP-20 THRU TMP-24  
FOR DETAIL VIEWS OF -L3-

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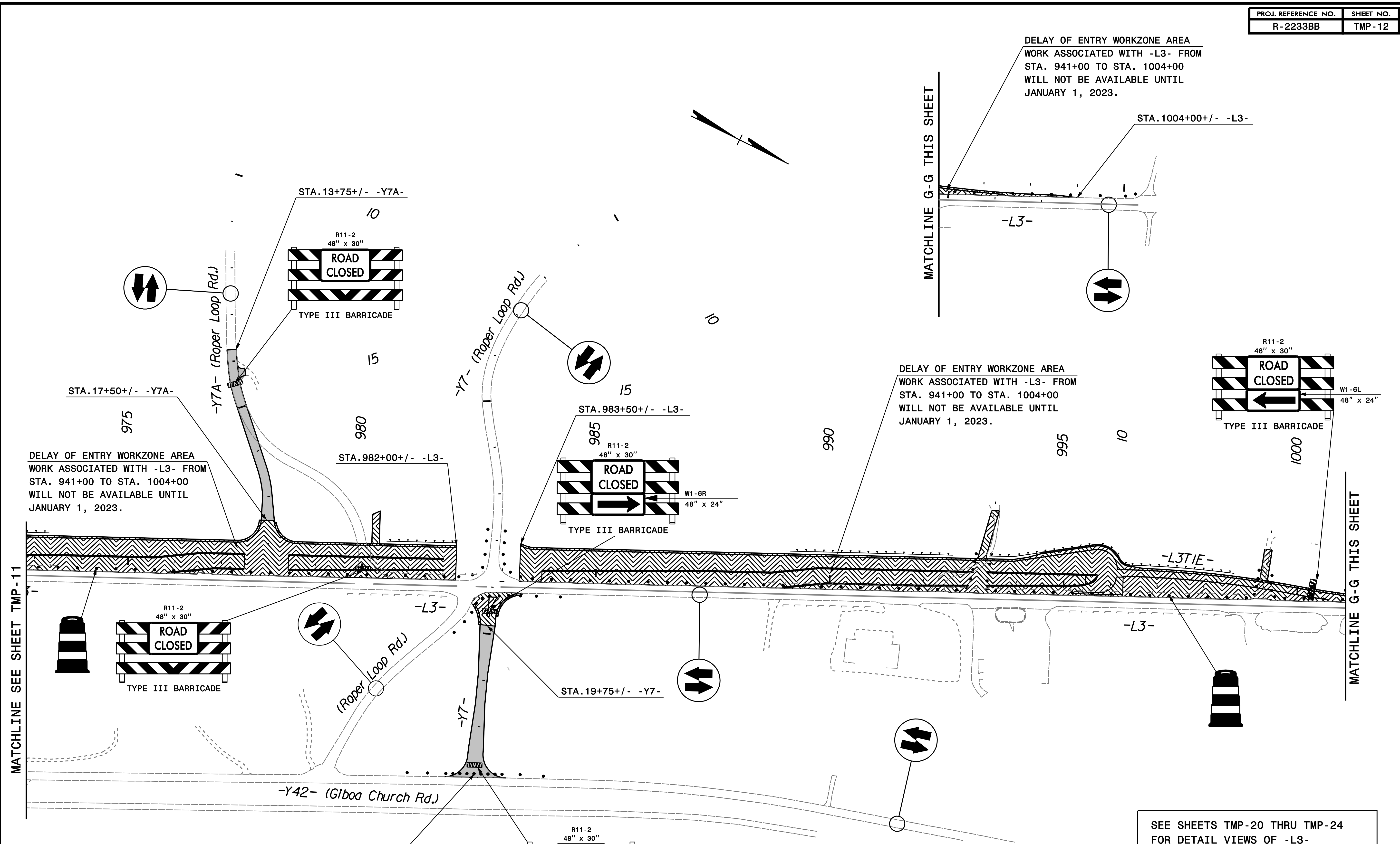
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MATCHLINE SEE SHEET TMP-11

MATCHLINE G-G THIS SHEET

SEE SHEETS TMP-20 THRU TMP-24 FOR DETAIL VIEWS OF -L3-

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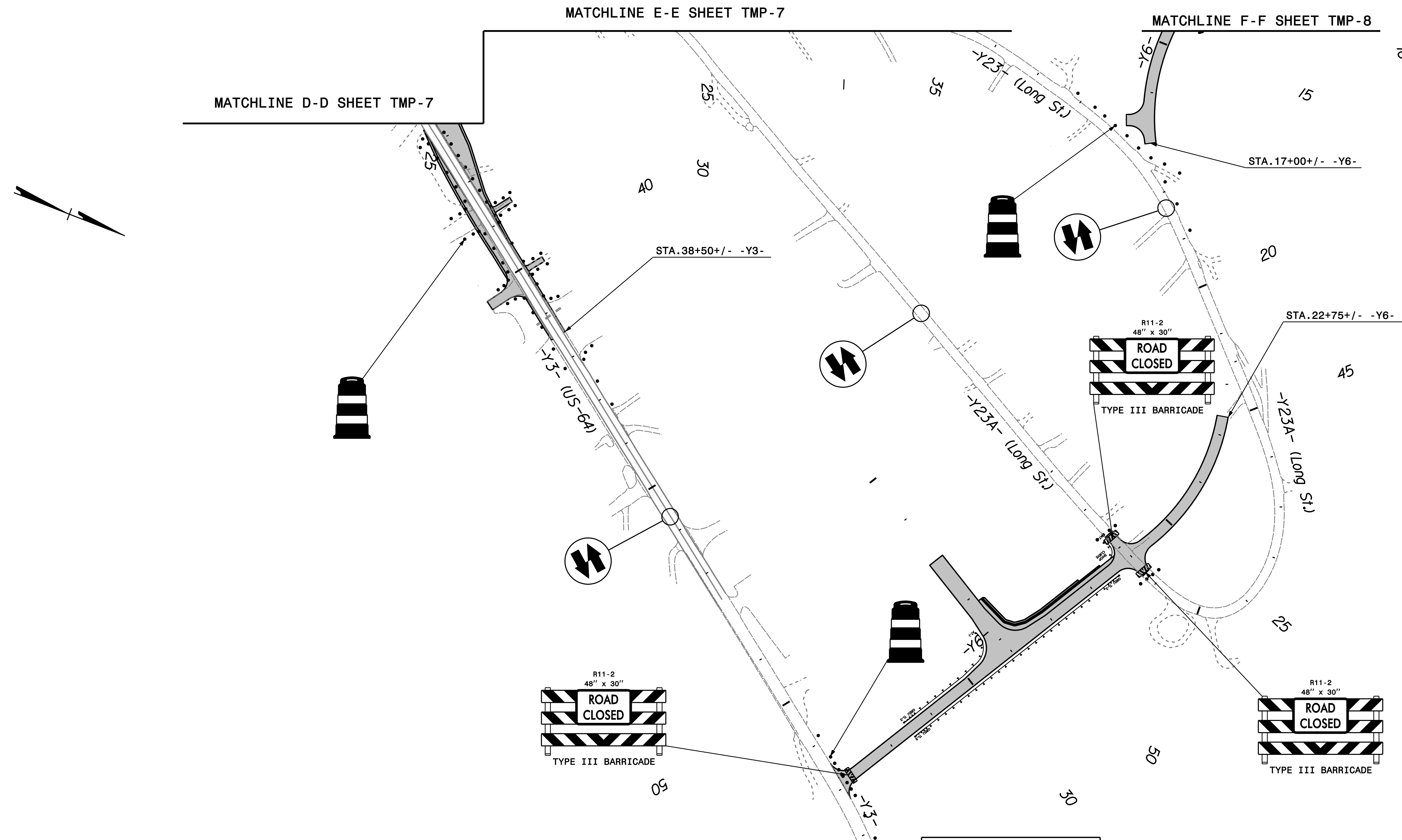
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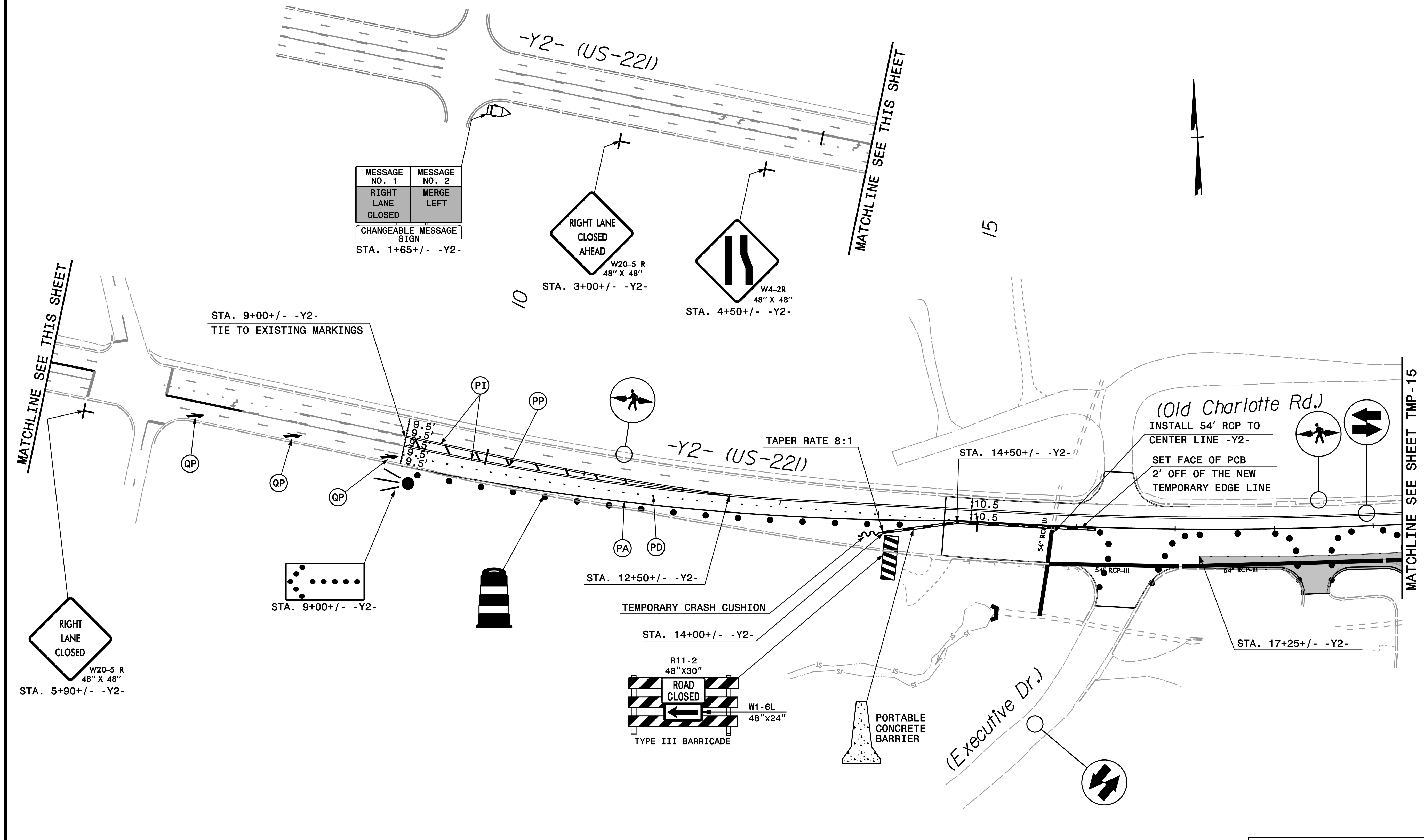
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PHASE I OVERVIEWS**





MESSAGE NO. 1 RIGHT LANE CLOSED	MESSAGE NO. 2 MERGE LEFT
CHANGEABLE MESSAGE SIGN STA. 1+65+/- -Y2-	

RIGHT LANE CLOSED  
W20-5 R  
48" X 48"  
STA. 5+90+/- -Y2-

RIGHT LANE CLOSED AHEAD  
W20-5 R  
48" X 48"  
STA. 3+00+/- -Y2-

W4-2R  
48" X 48"  
STA. 4+50+/- -Y2-

STA. 9+00+/- -Y2-  
TIE TO EXISTING MARKINGS

STA. 9+00+/- -Y2-

STA. 12+50+/- -Y2-  
TEMPORARY CRASH CUSHION  
STA. 14+00+/- -Y2-

R11-2  
48" X 30"  
ROAD CLOSED  
W1-6L  
48" X 24"  
TYPE III BARRICADE

STA. 14+50+/- -Y2-

(Old Charlotte Rd.)  
INSTALL 54' RCP TO CENTER LINE -Y2-  
SET FACE OF PCB 2' OFF OF THE NEW TEMPORARY EDGE LINE

STA. 17+25+/- -Y2-

(Executive Dr.)

NOTE:  
ALL PAVEMENT MARKINGS ARE EXISTING MARKINGS UNLESS OTHERWISE NOTED

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UNLESS ALL SIGNATURES COMPLETED

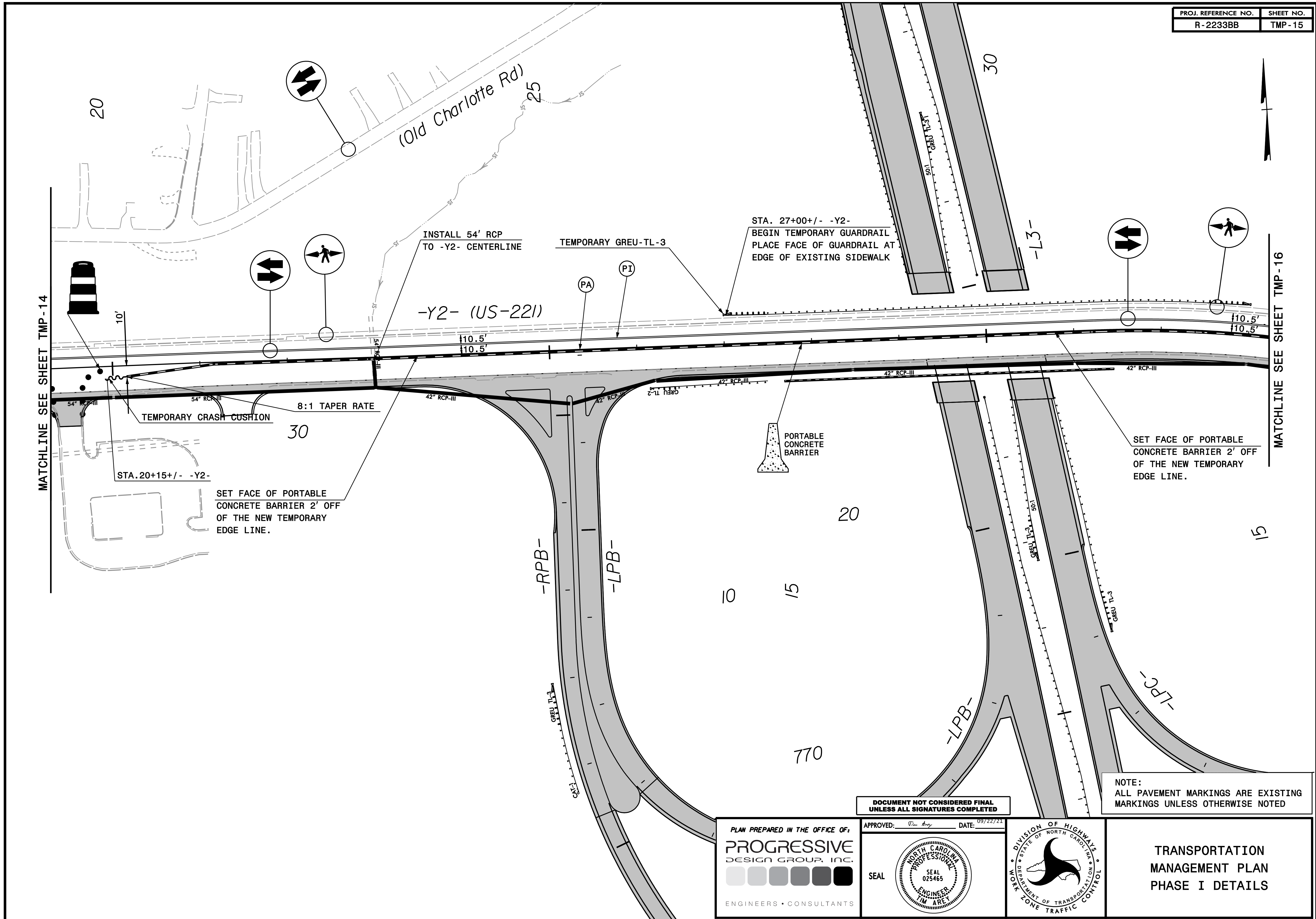
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TRANSPORTATION MANAGEMENT PLAN  
PHASE I DETAILS





NOTE:  
ALL PAVEMENT MARKINGS ARE EXISTING  
MARKINGS UNLESS OTHERWISE NOTED

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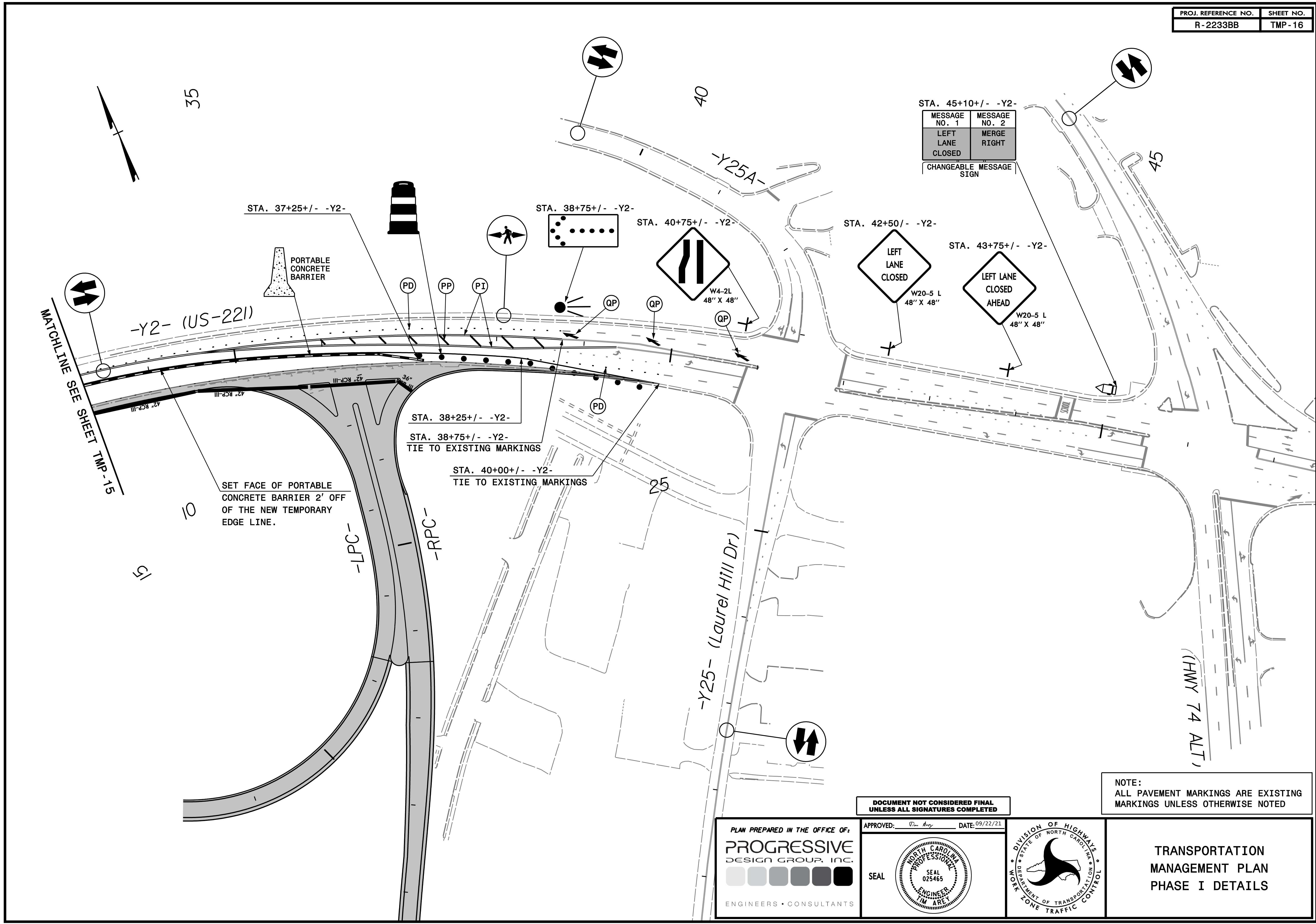
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MANAGEMENT PLAN  
PHASE I DETAILS**





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

CHANGEABLE MESSAGE SIGN

MATCHLINE SEE SHEET TMP-15

SET FACE OF PORTABLE CONCRETE BARRIER 2' OFF OF THE NEW TEMPORARY EDGE LINE.

STA. 38+25+/- -Y2-  
 STA. 38+75+/- -Y2-  
 TIE TO EXISTING MARKINGS  
 STA. 40+00+/- -Y2-  
 TIE TO EXISTING MARKINGS

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NOTE:  
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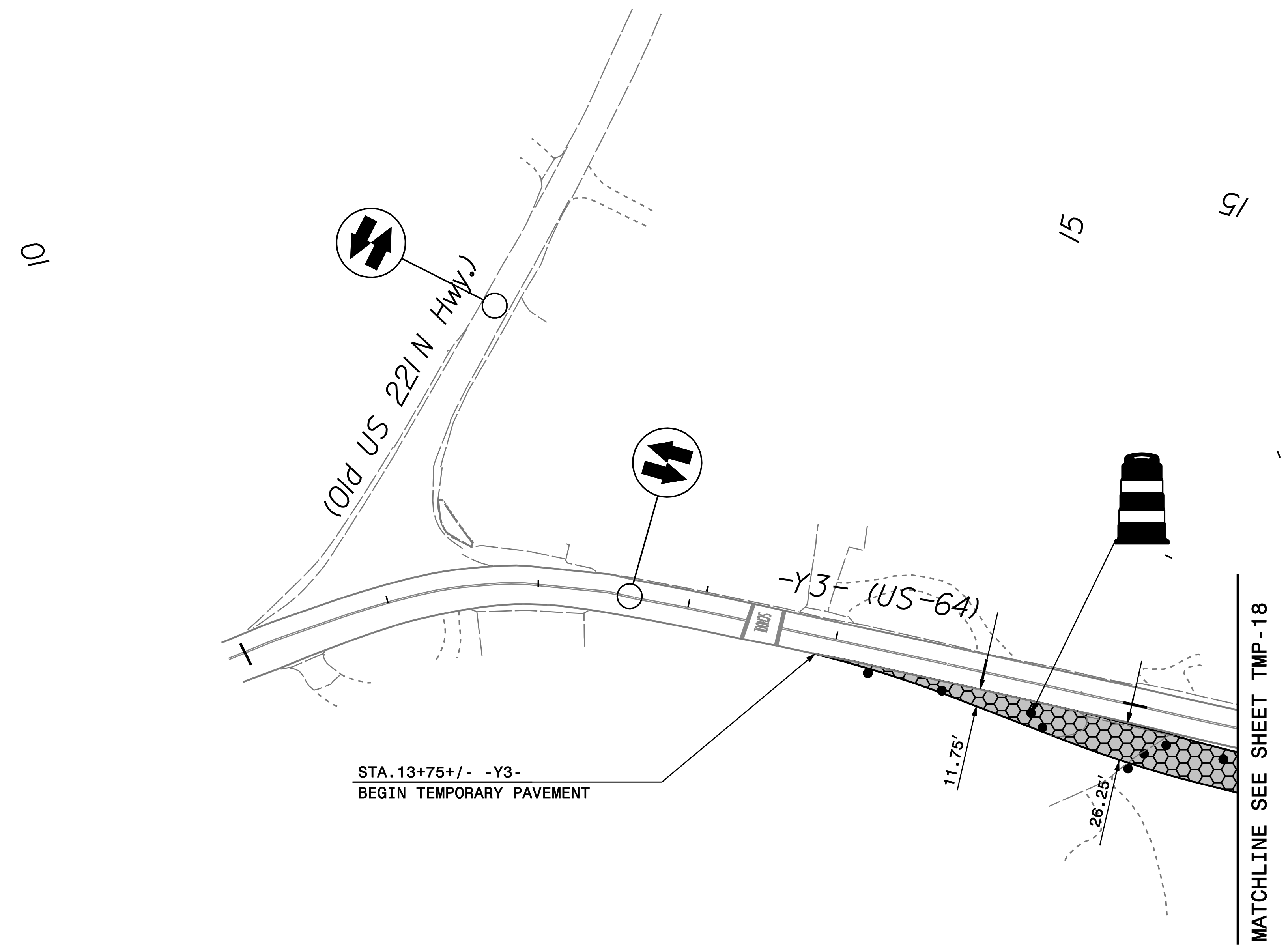
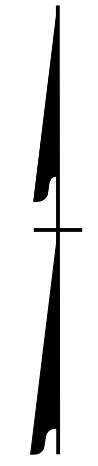
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STA. 13+75 +/- -Y3-  
BEGIN TEMPORARY PAVEMENT

MATCHLINE SEE SHEET TMP-18

NOTE:  
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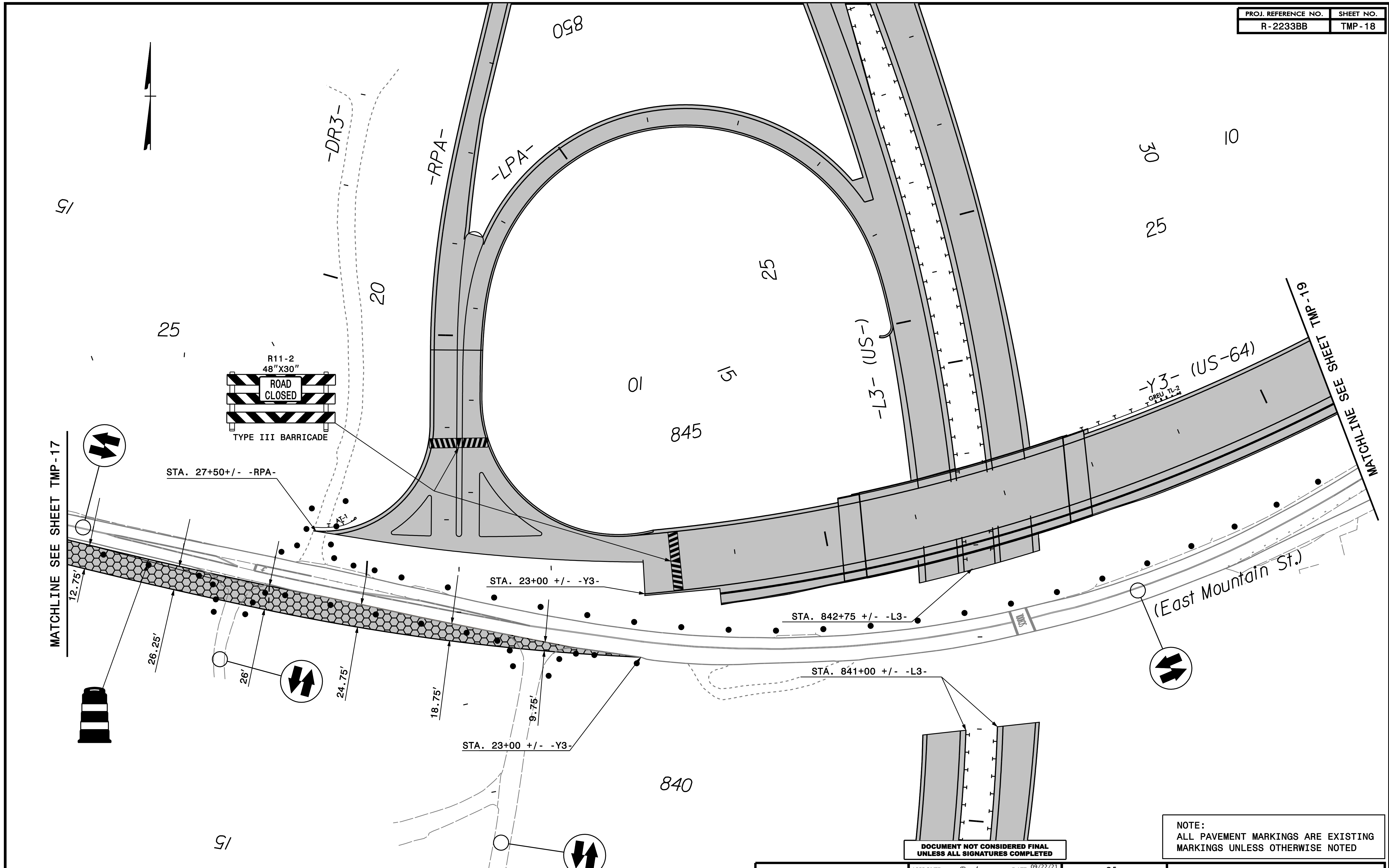
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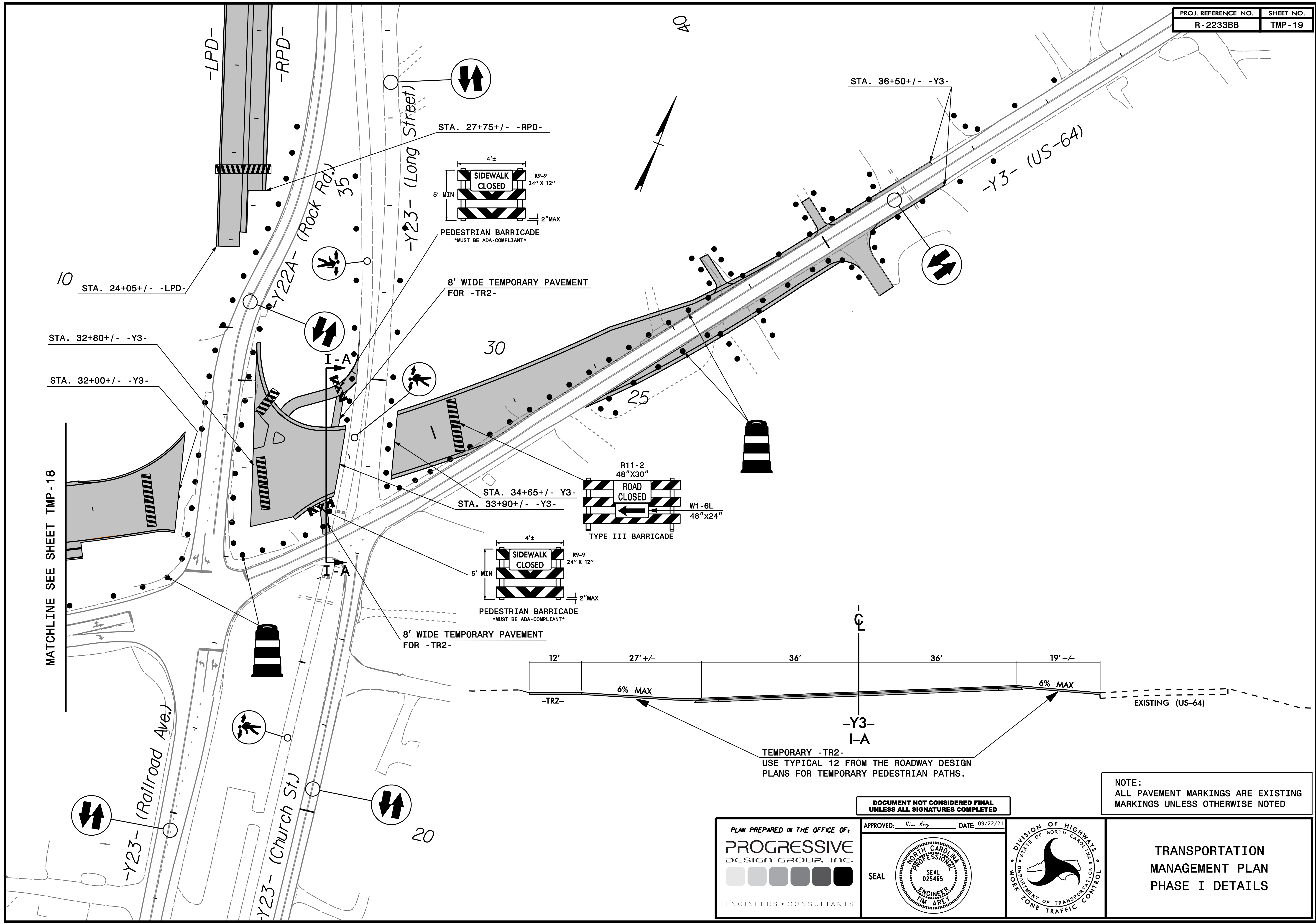
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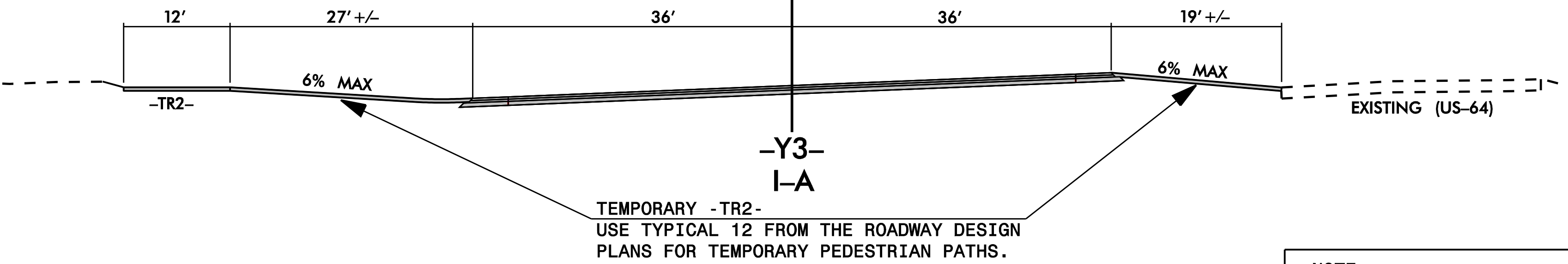
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STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
WORK ZONE TRAFFIC CONTROL

TRANSPORTATION  
MANAGEMENT PLAN  
PHASE I DETAILS





MATCHLINE SEE SHEET TMP-18



NOTE:  
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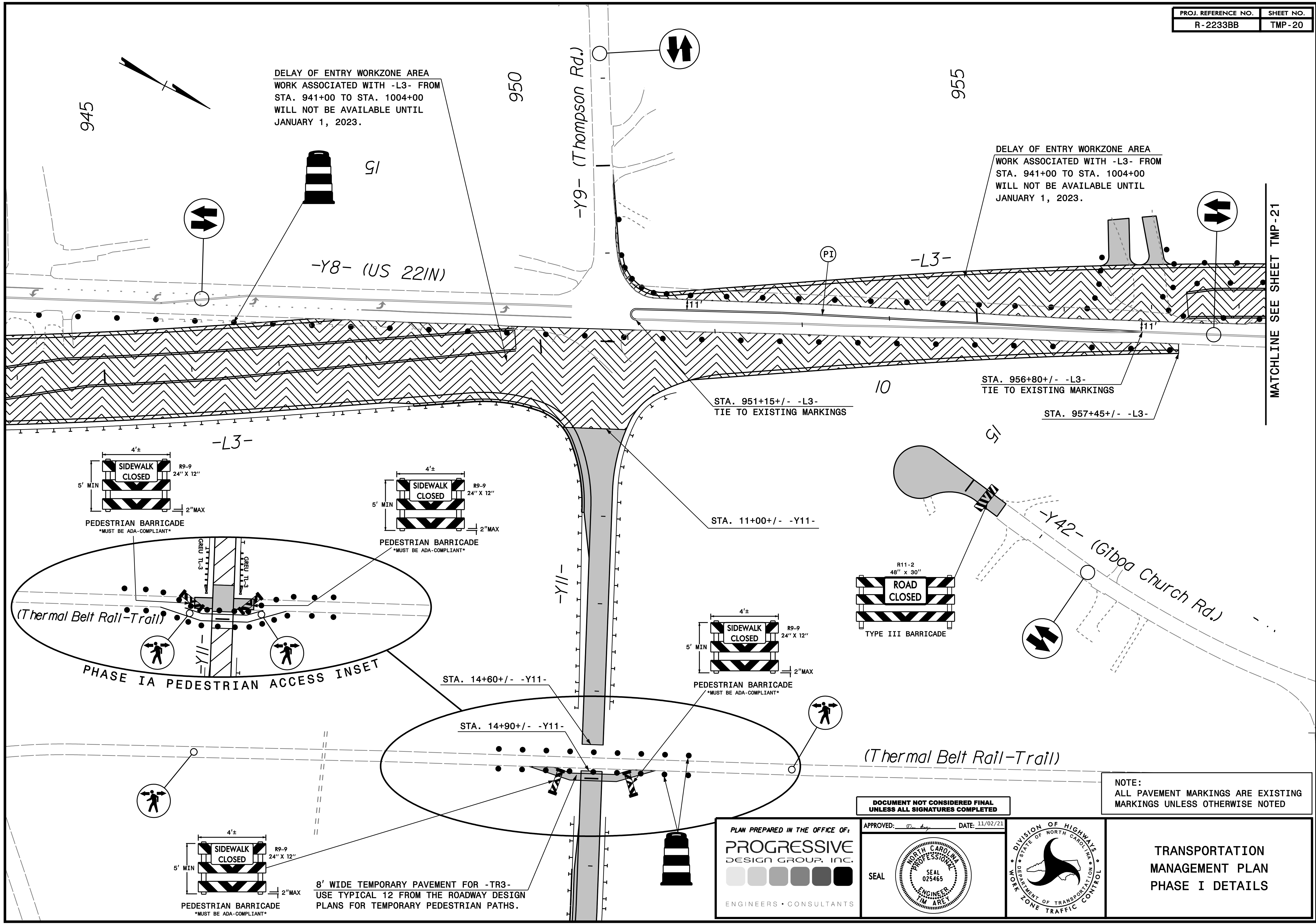
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STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
WORK ZONE TRAFFIC CONTROL

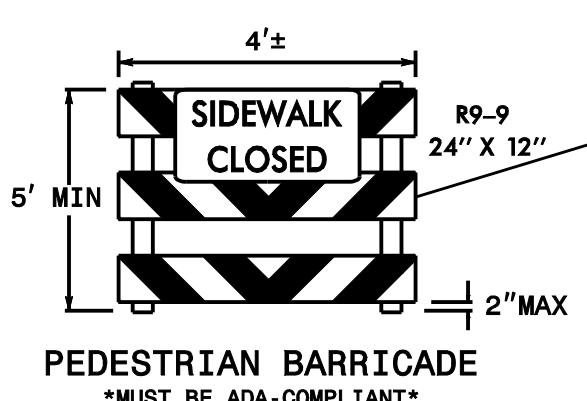
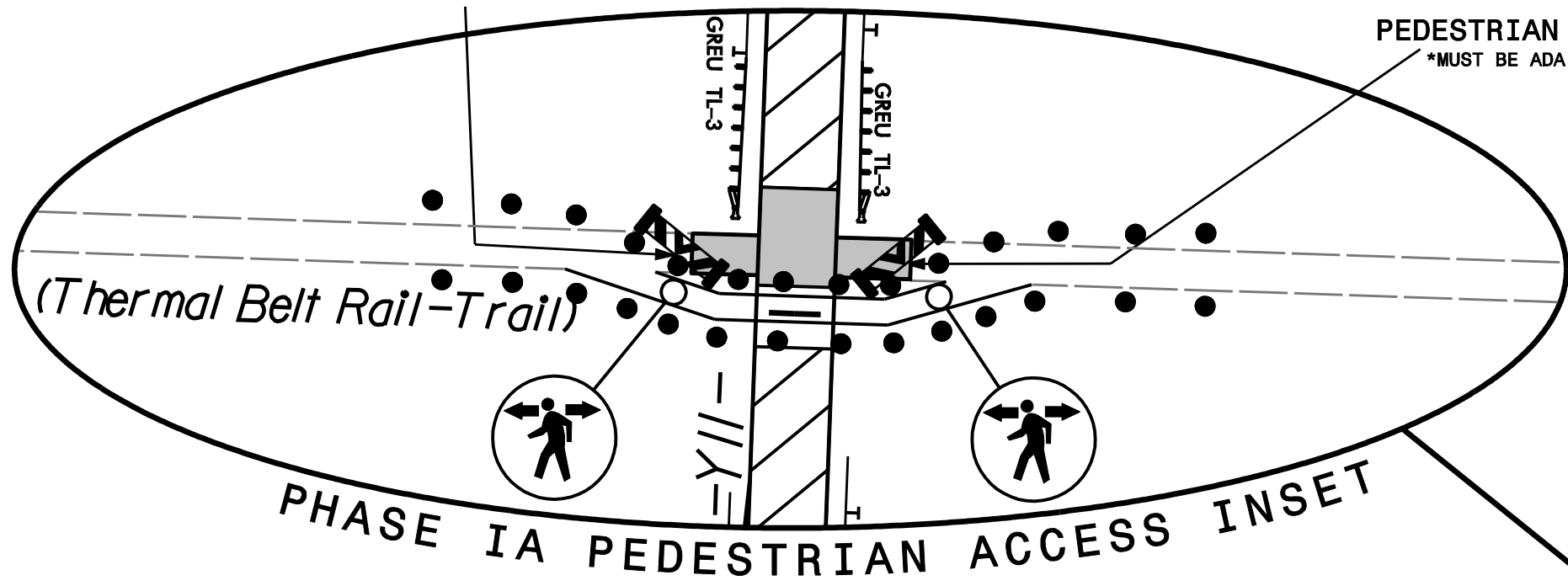
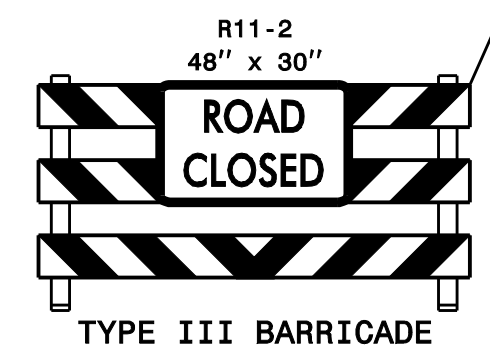
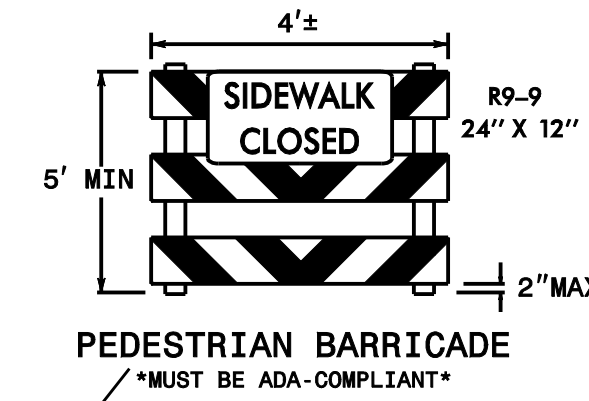
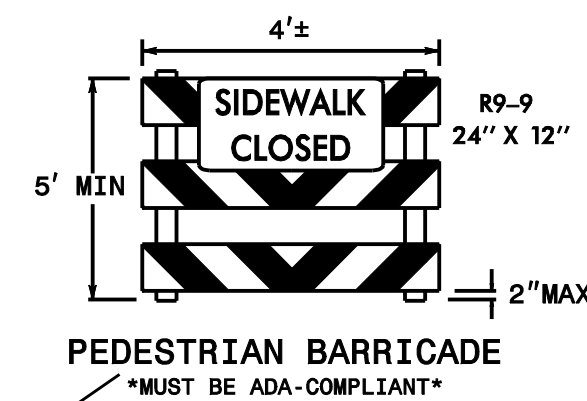
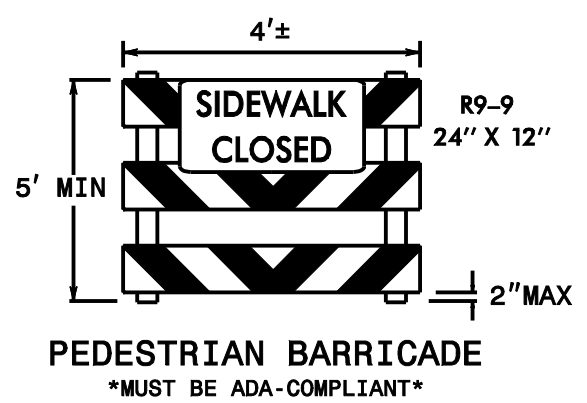
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DELAY OF ENTRY WORKZONE AREA  
 WORK ASSOCIATED WITH -L3- FROM  
 STA. 941+00 TO STA. 1004+00  
 WILL NOT BE AVAILABLE UNTIL  
 JANUARY 1, 2023.

DELAY OF ENTRY WORKZONE AREA  
 WORK ASSOCIATED WITH -L3- FROM  
 STA. 941+00 TO STA. 1004+00  
 WILL NOT BE AVAILABLE UNTIL  
 JANUARY 1, 2023.



8' WIDE TEMPORARY PAVEMENT FOR -TR3-  
 USE TYPICAL 12 FROM THE ROADWAY DESIGN  
 PLANS FOR TEMPORARY PEDESTRIAN PATHS.

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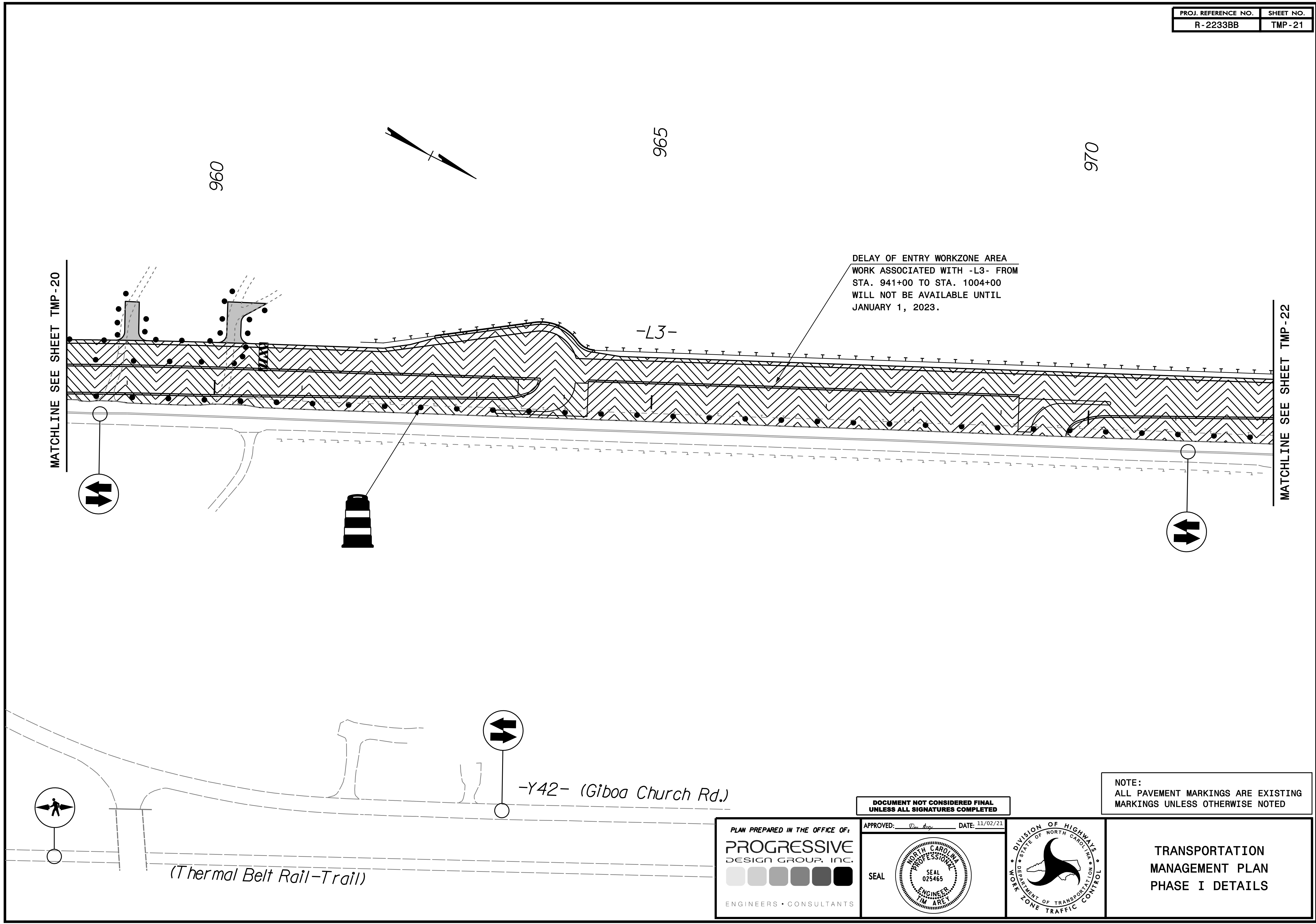
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 NORTH CAROLINA PROFESSIONAL ENGINEER  
 SEAL 025465  
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MATCHLINE SEE SHEET TMP-21





DELAY OF ENTRY WORKZONE AREA  
 WORK ASSOCIATED WITH -L3- FROM  
 STA. 941+00 TO STA. 1004+00  
 WILL NOT BE AVAILABLE UNTIL  
 JANUARY 1, 2023.

NOTE:  
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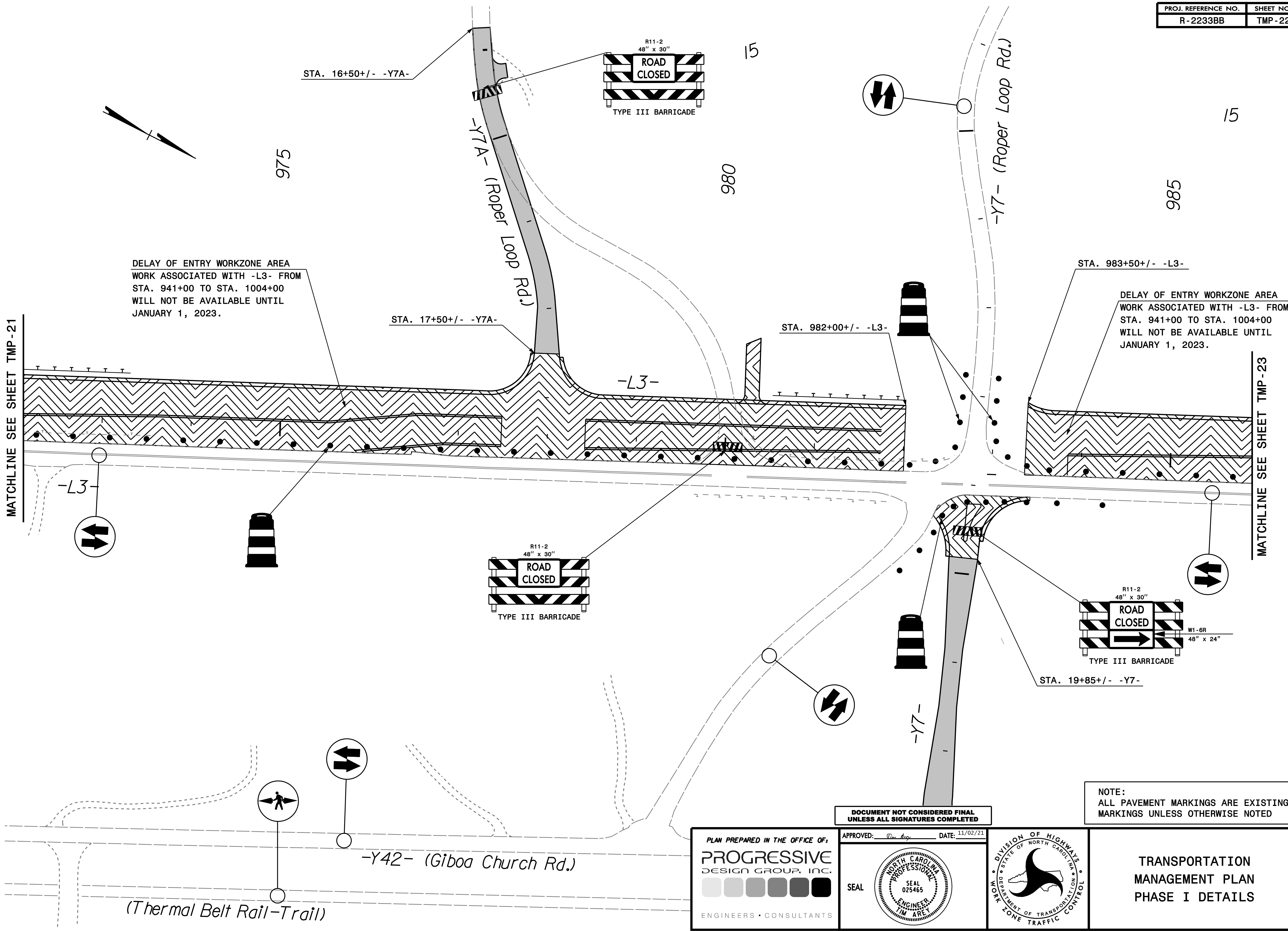
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DELAY OF ENTRY WORKZONE AREA  
WORK ASSOCIATED WITH -L3- FROM  
STA. 941+00 TO STA. 1004+00  
WILL NOT BE AVAILABLE UNTIL  
JANUARY 1, 2023.

DELAY OF ENTRY WORKZONE AREA  
WORK ASSOCIATED WITH -L3- FROM  
STA. 941+00 TO STA. 1004+00  
WILL NOT BE AVAILABLE UNTIL  
JANUARY 1, 2023.

MATCHLINE SEE SHEET TMP-21

MATCHLINE SEE SHEET TMP-23

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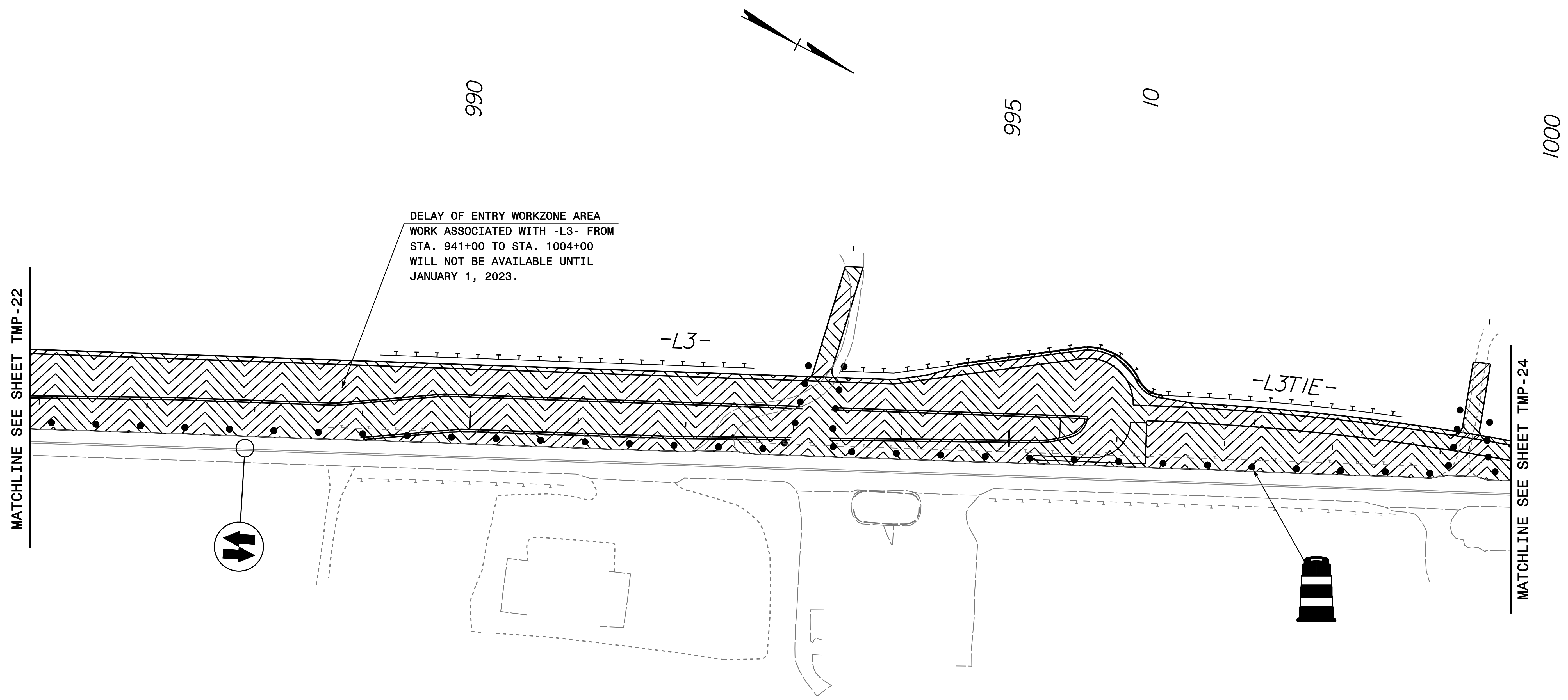
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DELAY OF ENTRY WORKZONE AREA  
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 JANUARY 1, 2023.

MATCHLINE SEE SHEET TMP-22

MATCHLINE SEE SHEET TMP-24

NOTE:  
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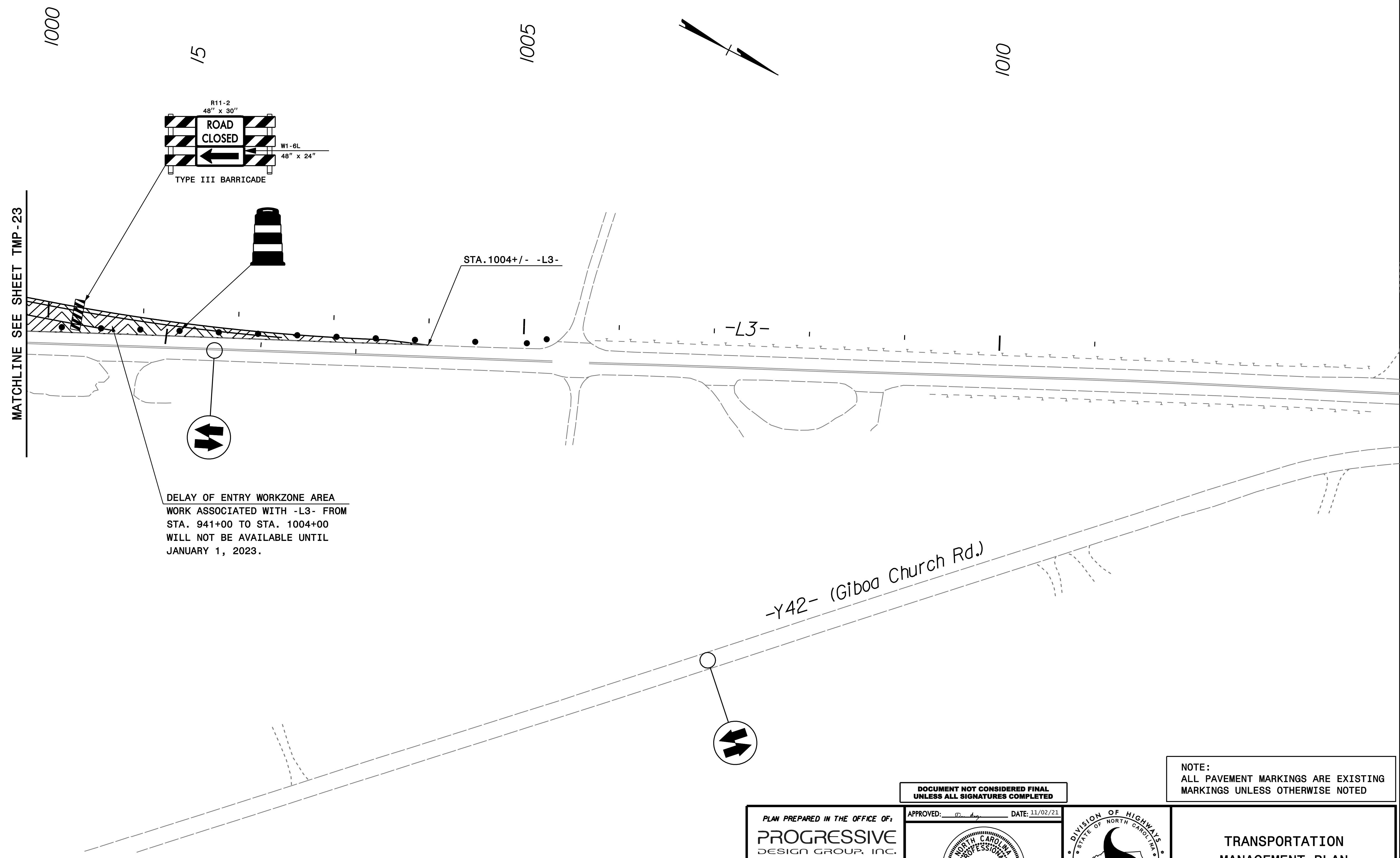
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DELAY OF ENTRY WORKZONE AREA  
 WORK ASSOCIATED WITH -L3- FROM  
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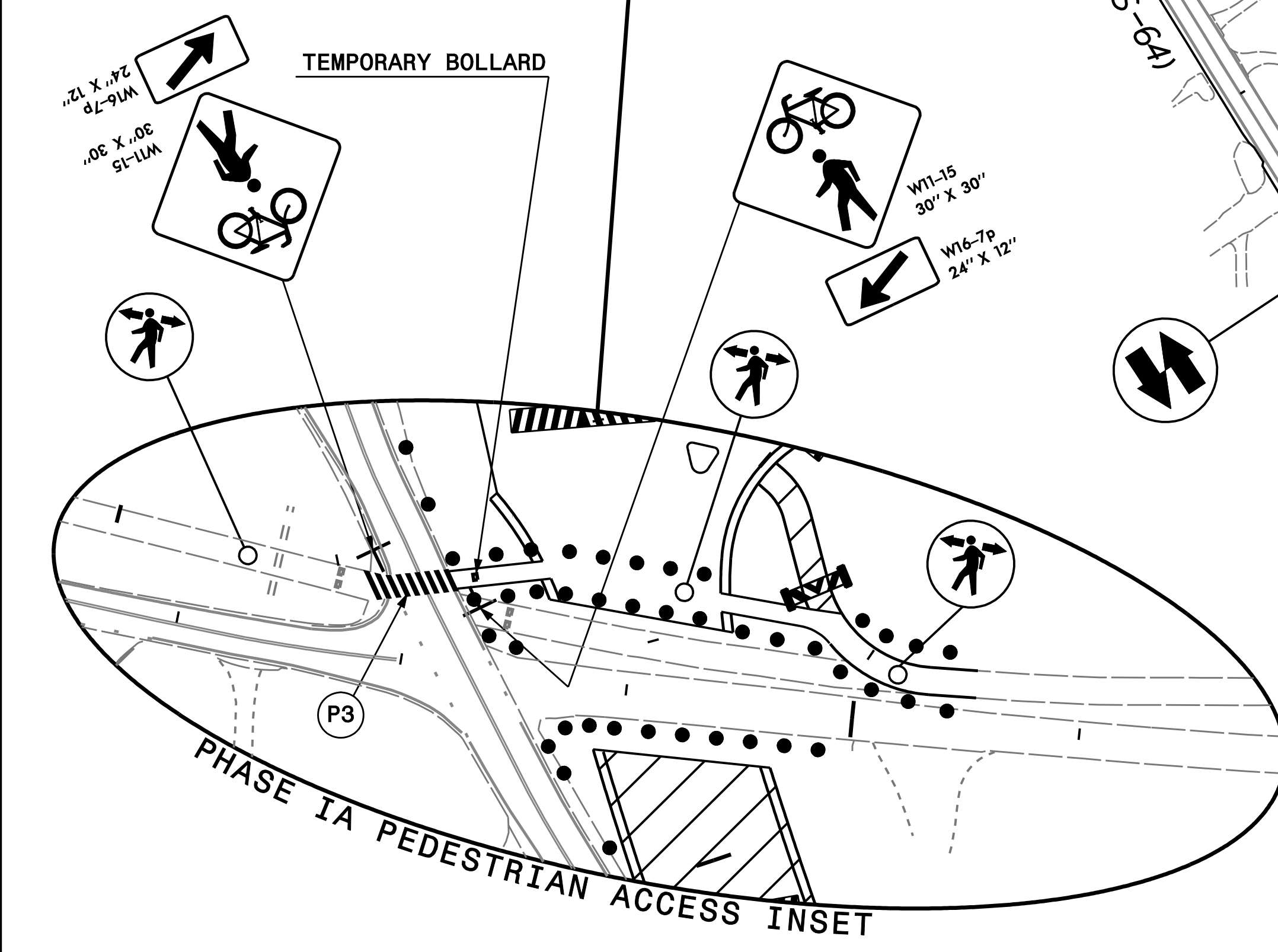
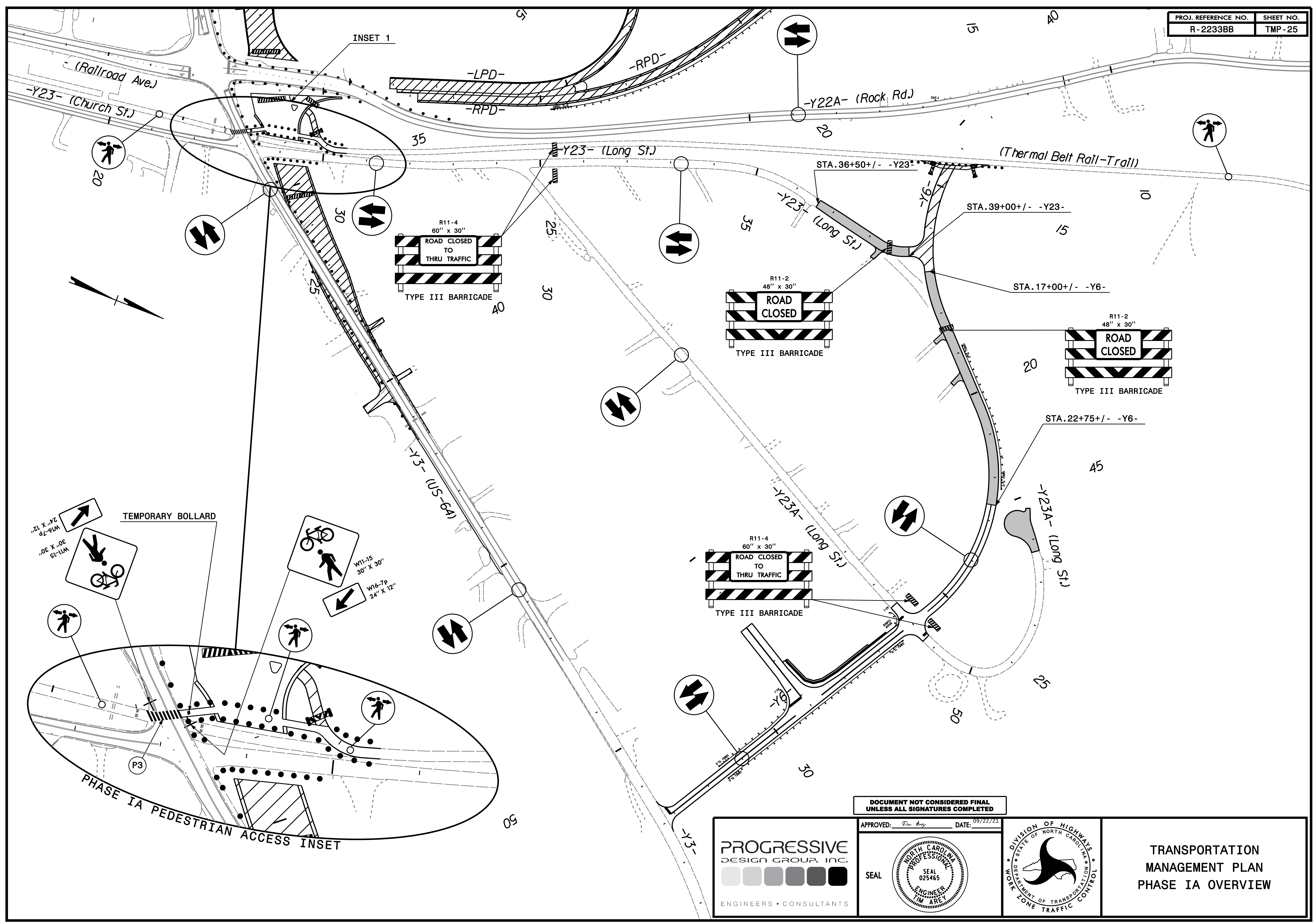
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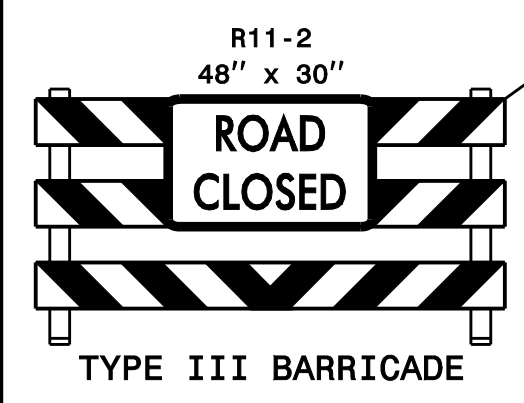
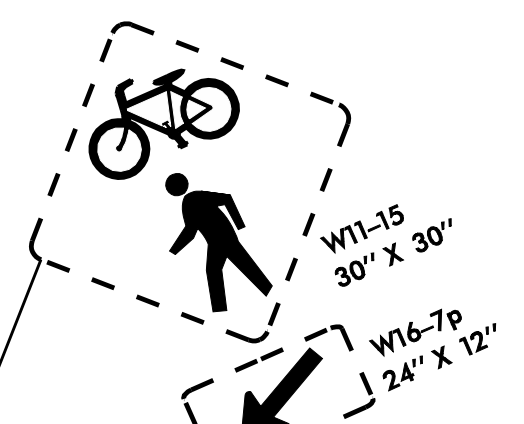
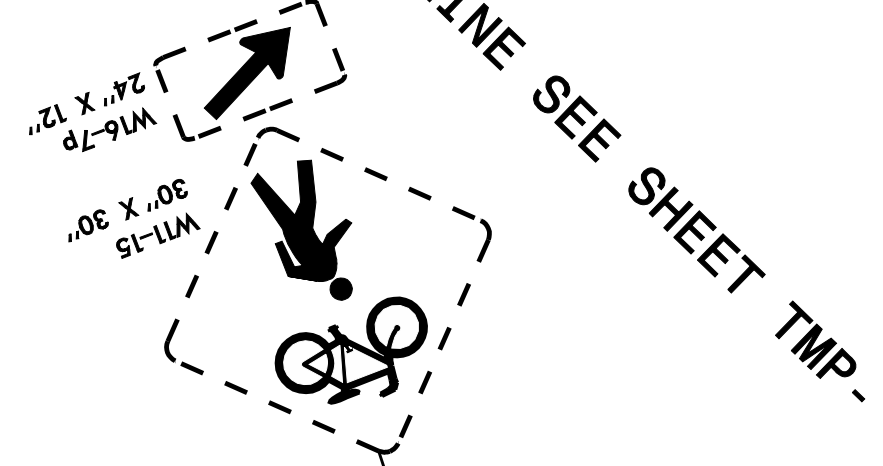
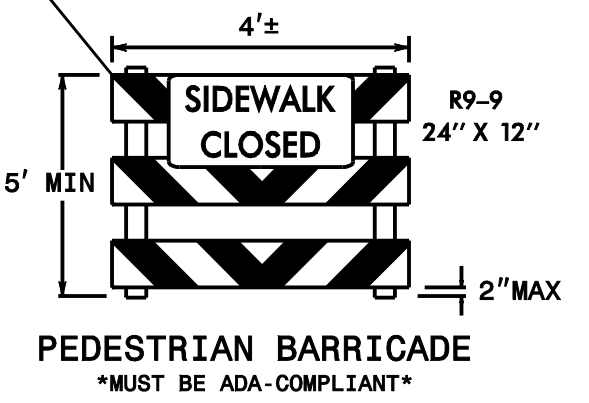
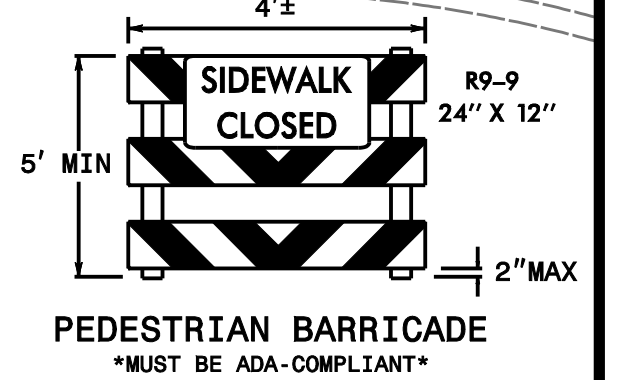
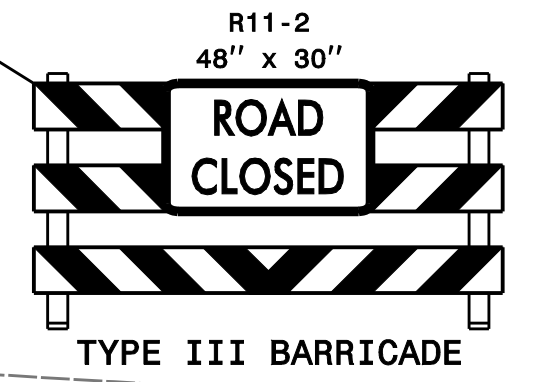
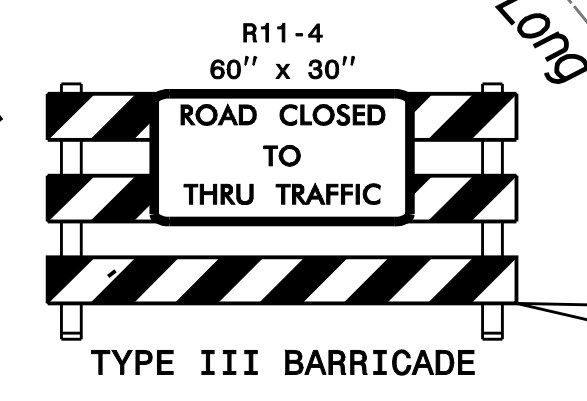
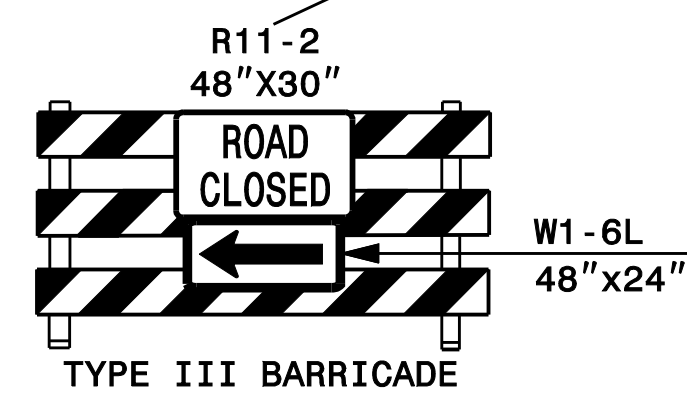
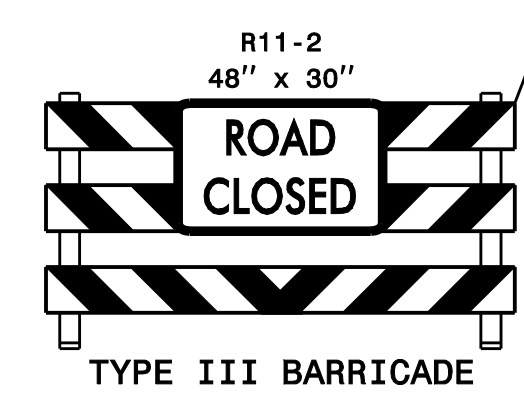
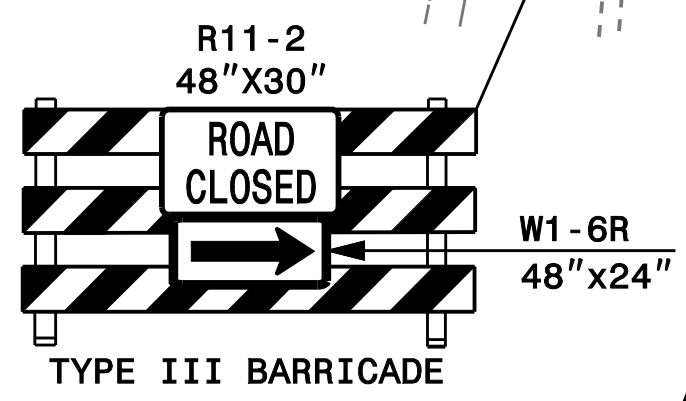
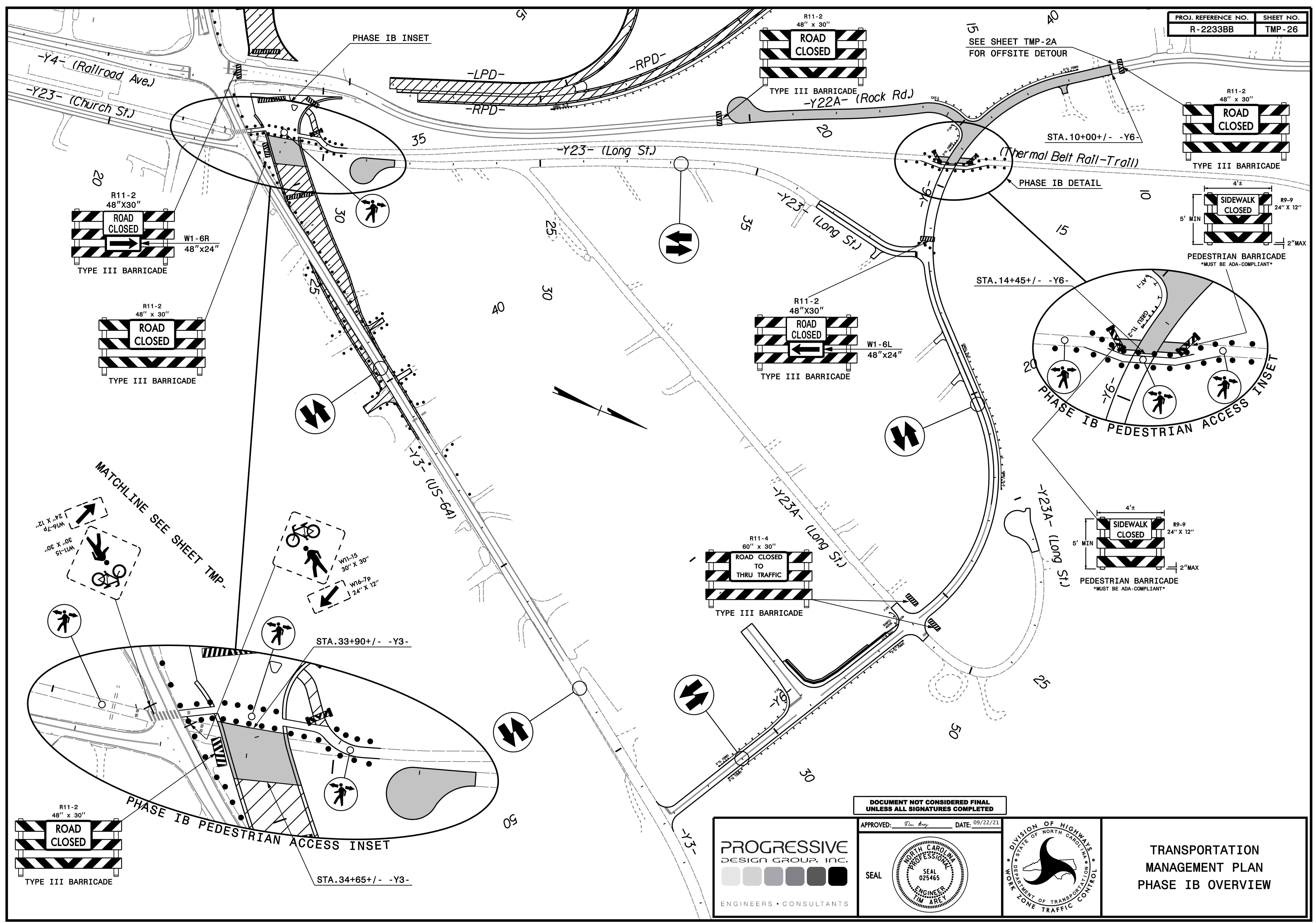
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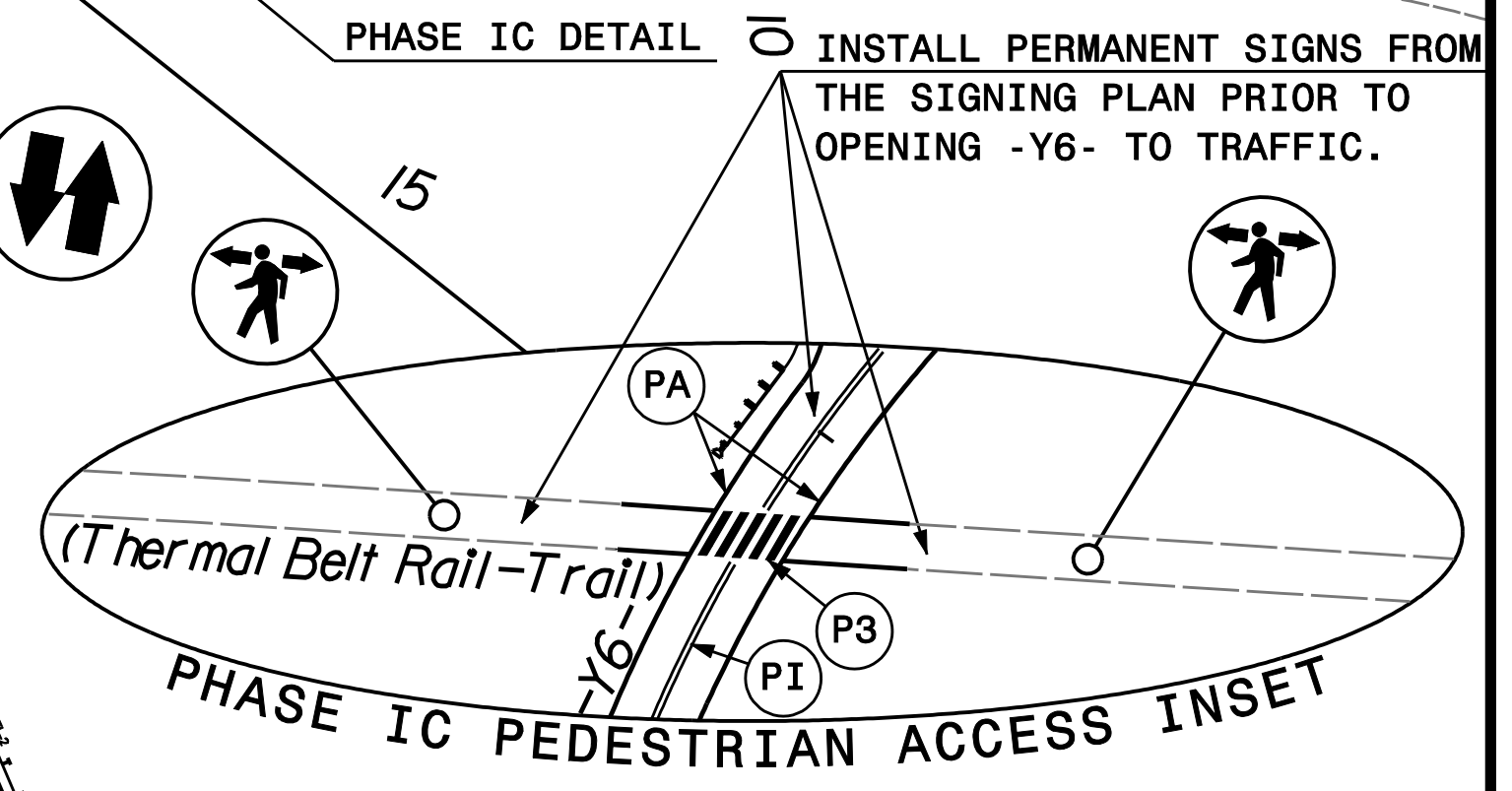
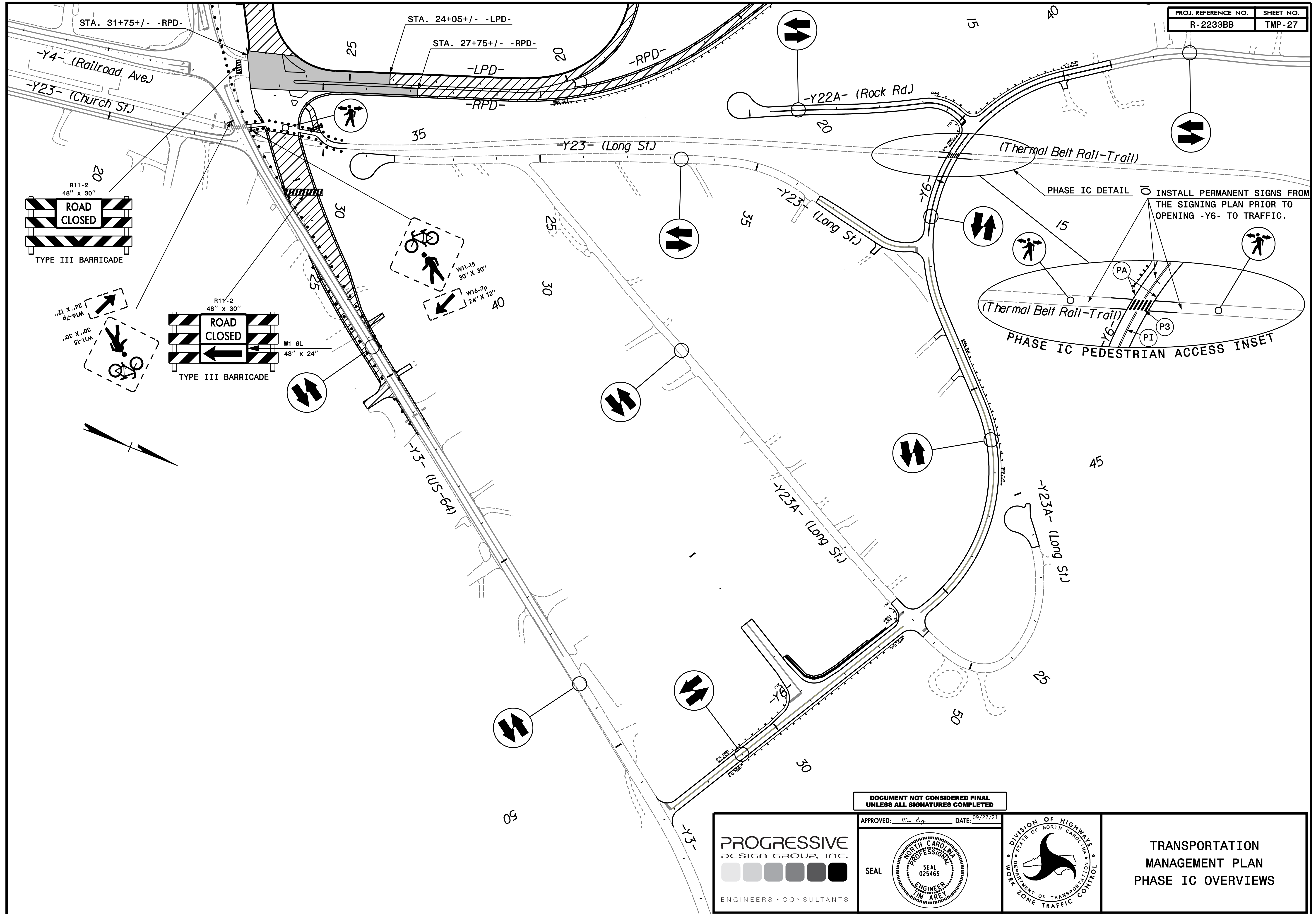
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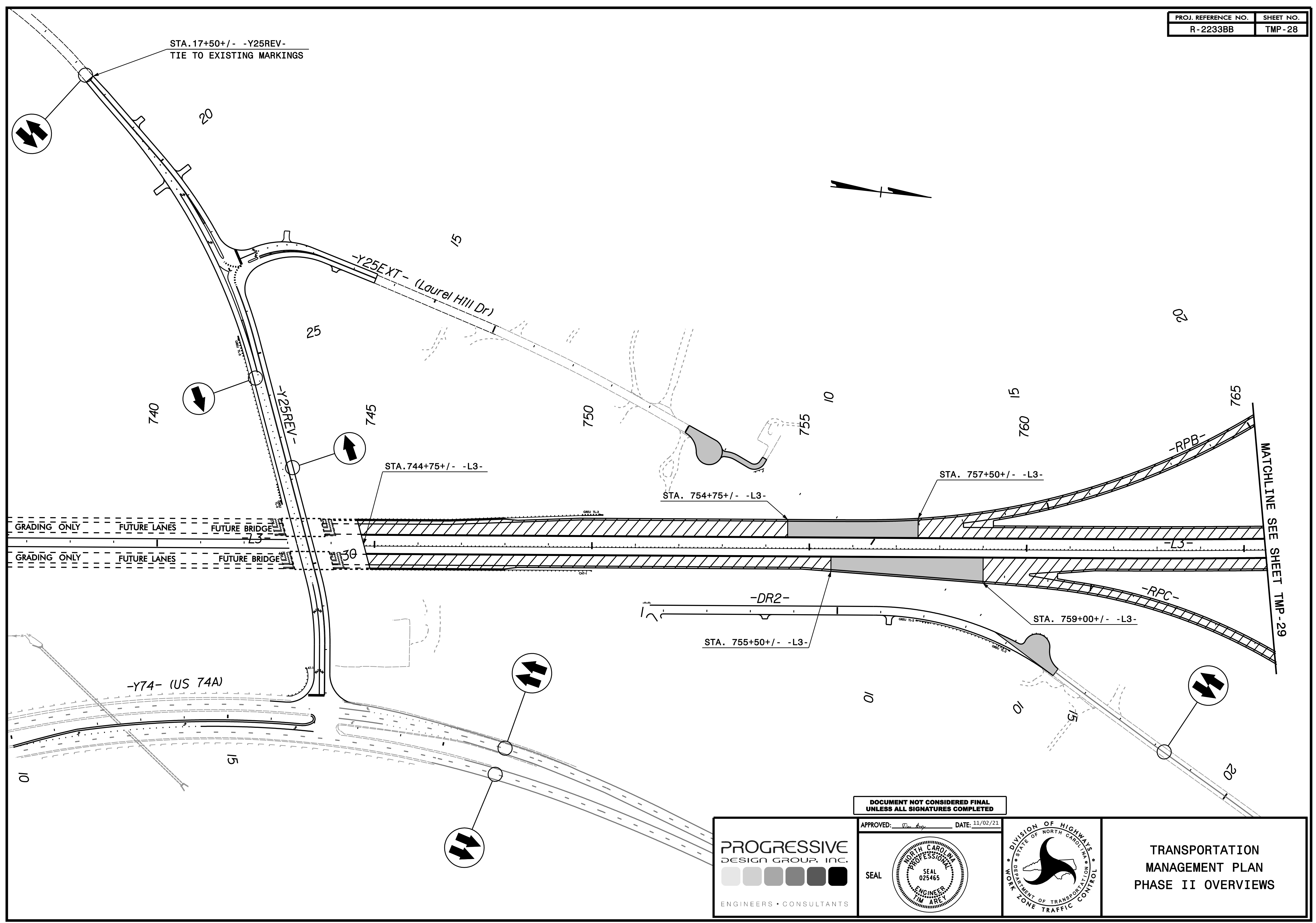
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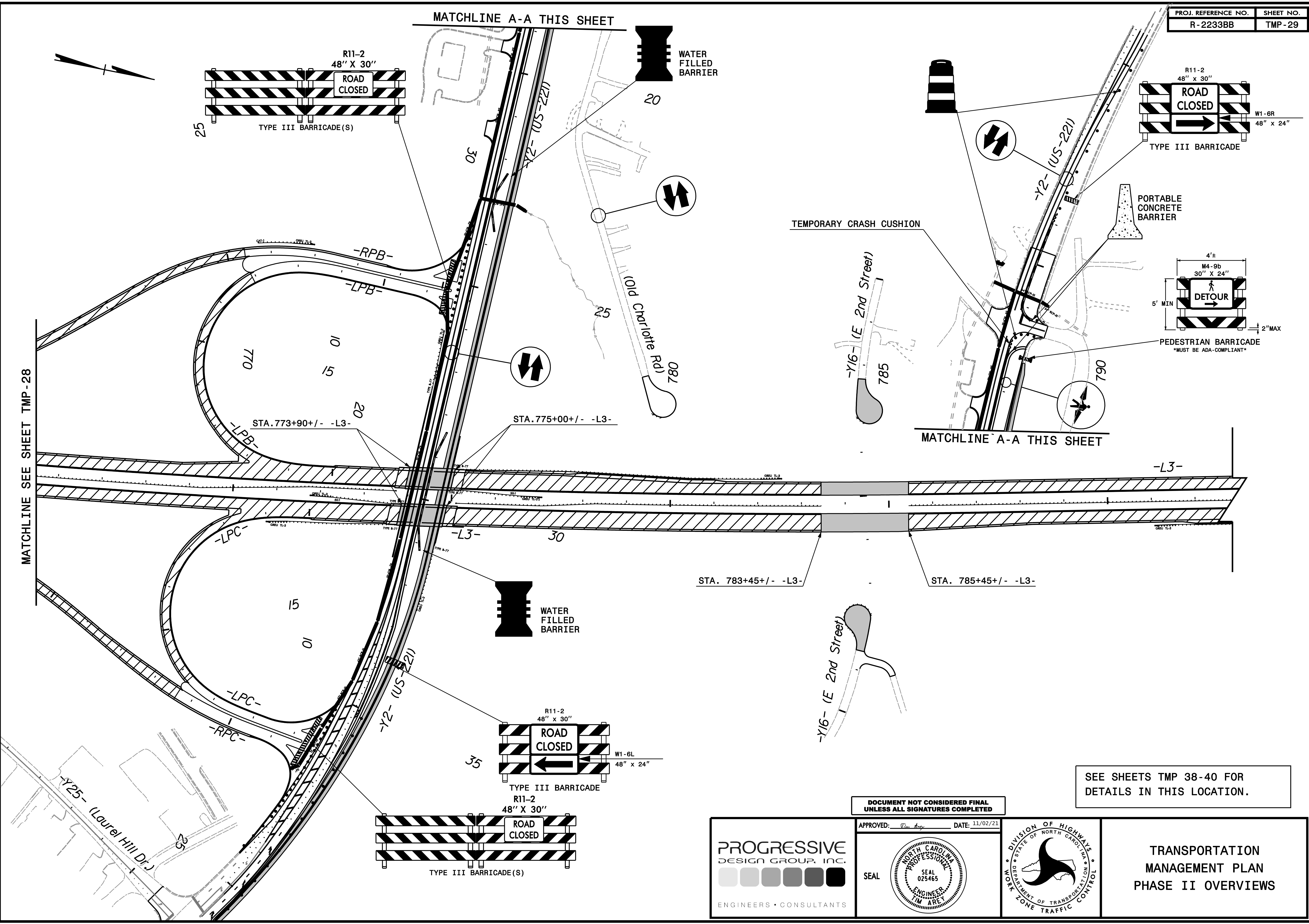
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MATCHLINE SEE SHEET TMP-28

MATCHLINE A-A THIS SHEET

MATCHLINE A-A THIS SHEET

SEE SHEETS TMP 38-40 FOR DETAILS IN THIS LOCATION.

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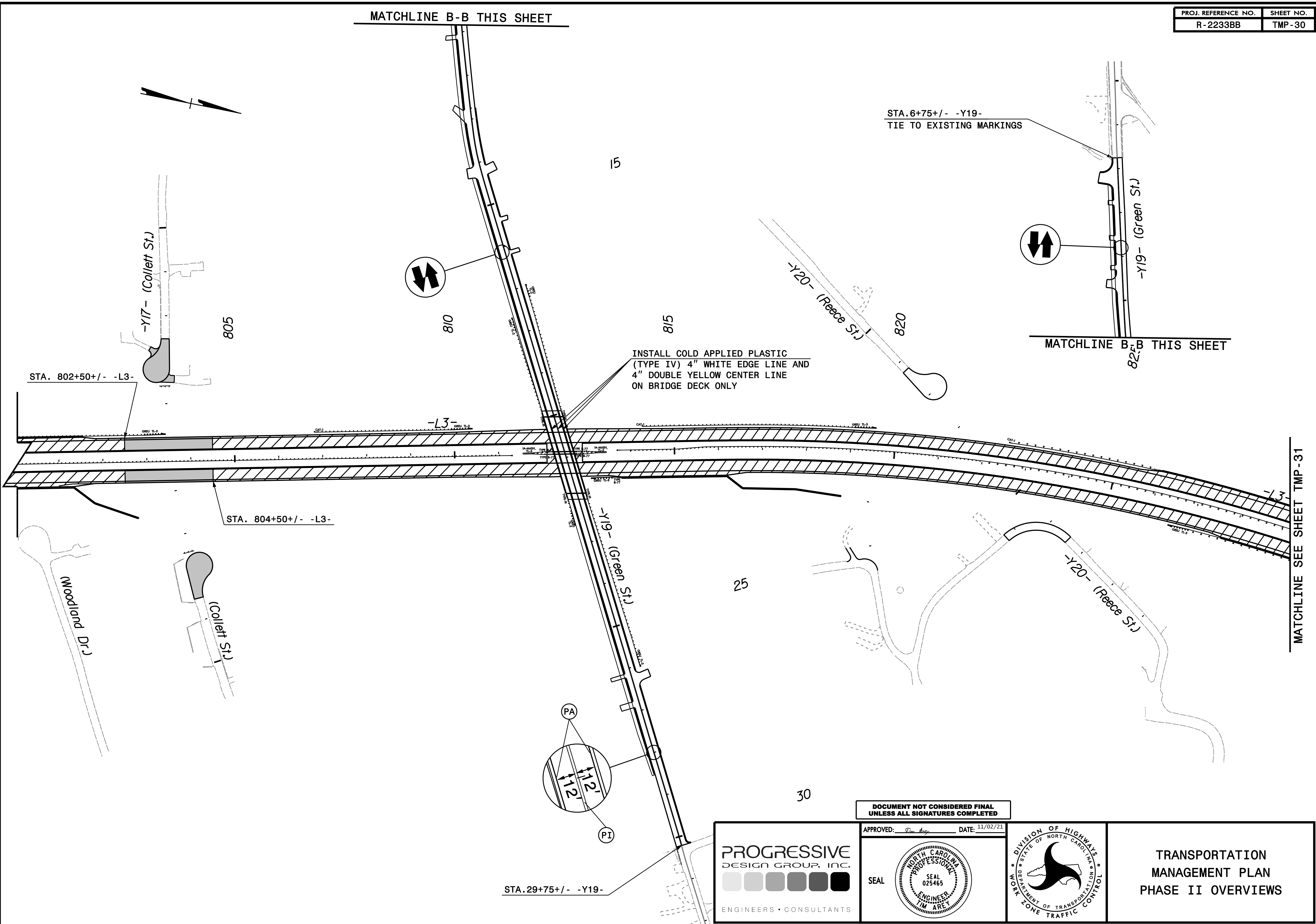
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PHASE II OVERVIEWS**





MATCHLINE SEE SHEET TMP-31

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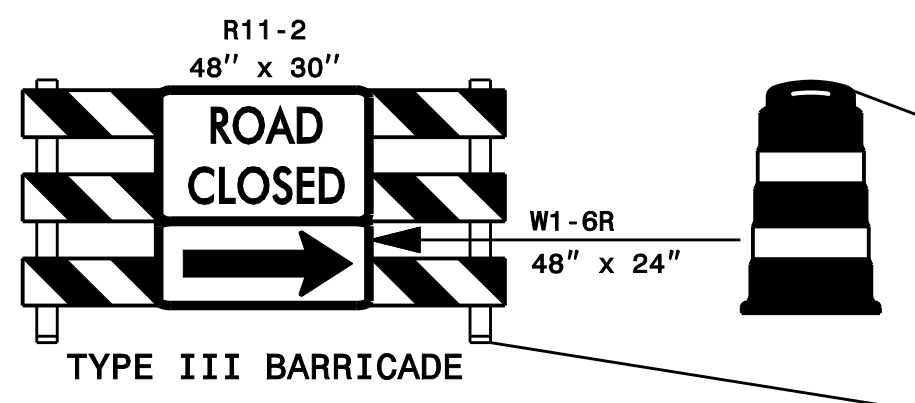
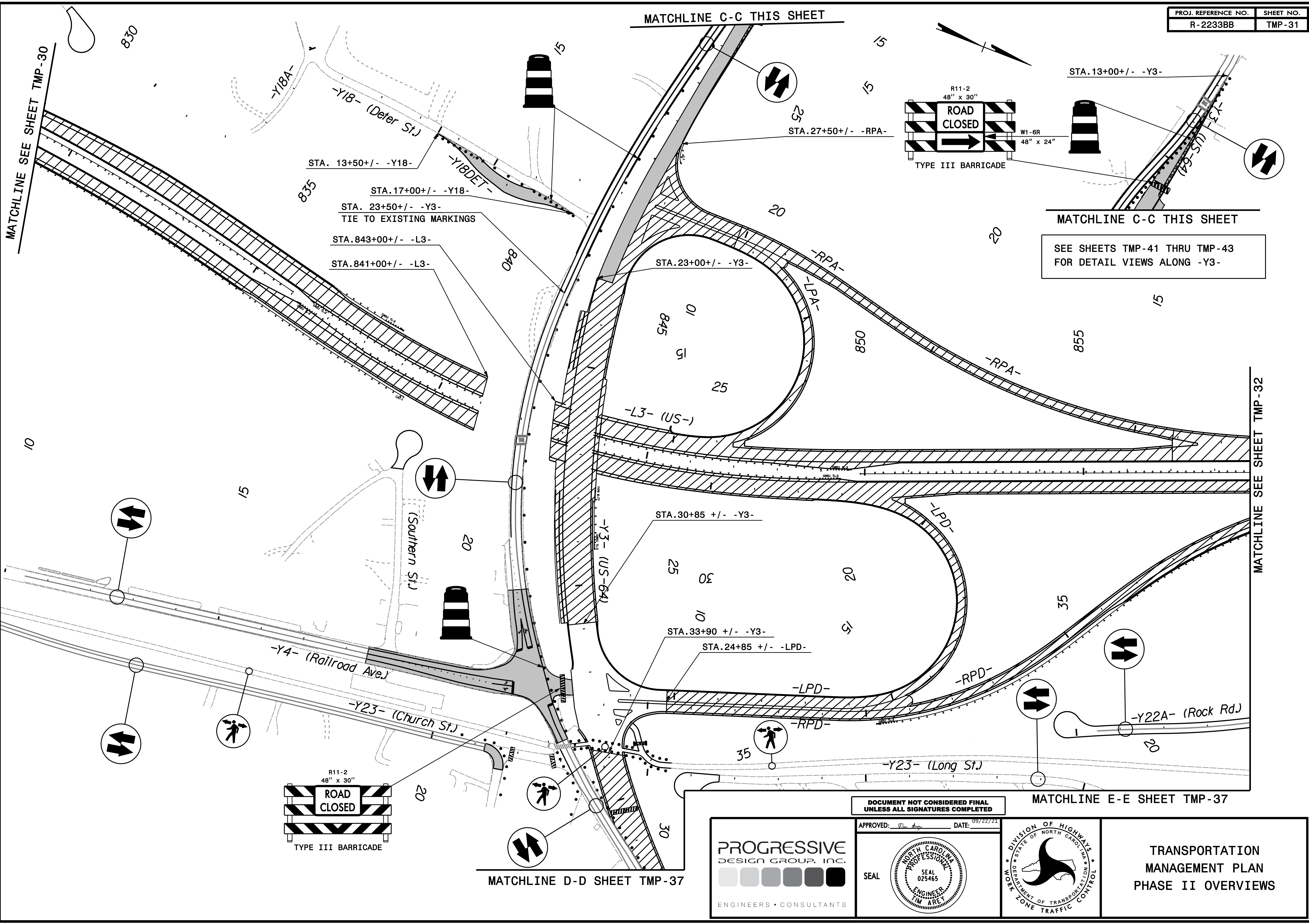
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APPROVED: *[Signature]* DATE: 11/02/21

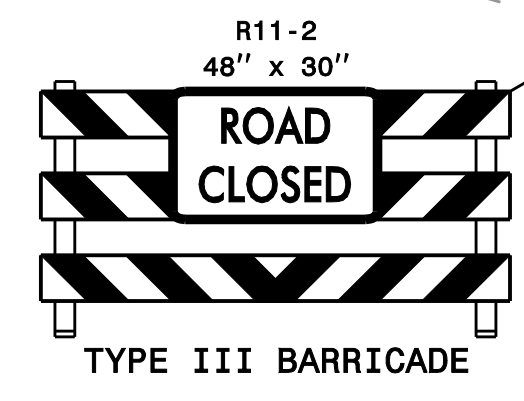
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PHASE II OVERVIEWS**





SEE SHEETS TMP-41 THRU TMP-43  
FOR DETAIL VIEWS ALONG -Y3-



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MANAGEMENT PLAN  
PHASE II OVERVIEWS

MATCHLINE SEE SHEET TMP-30

MATCHLINE C-C THIS SHEET

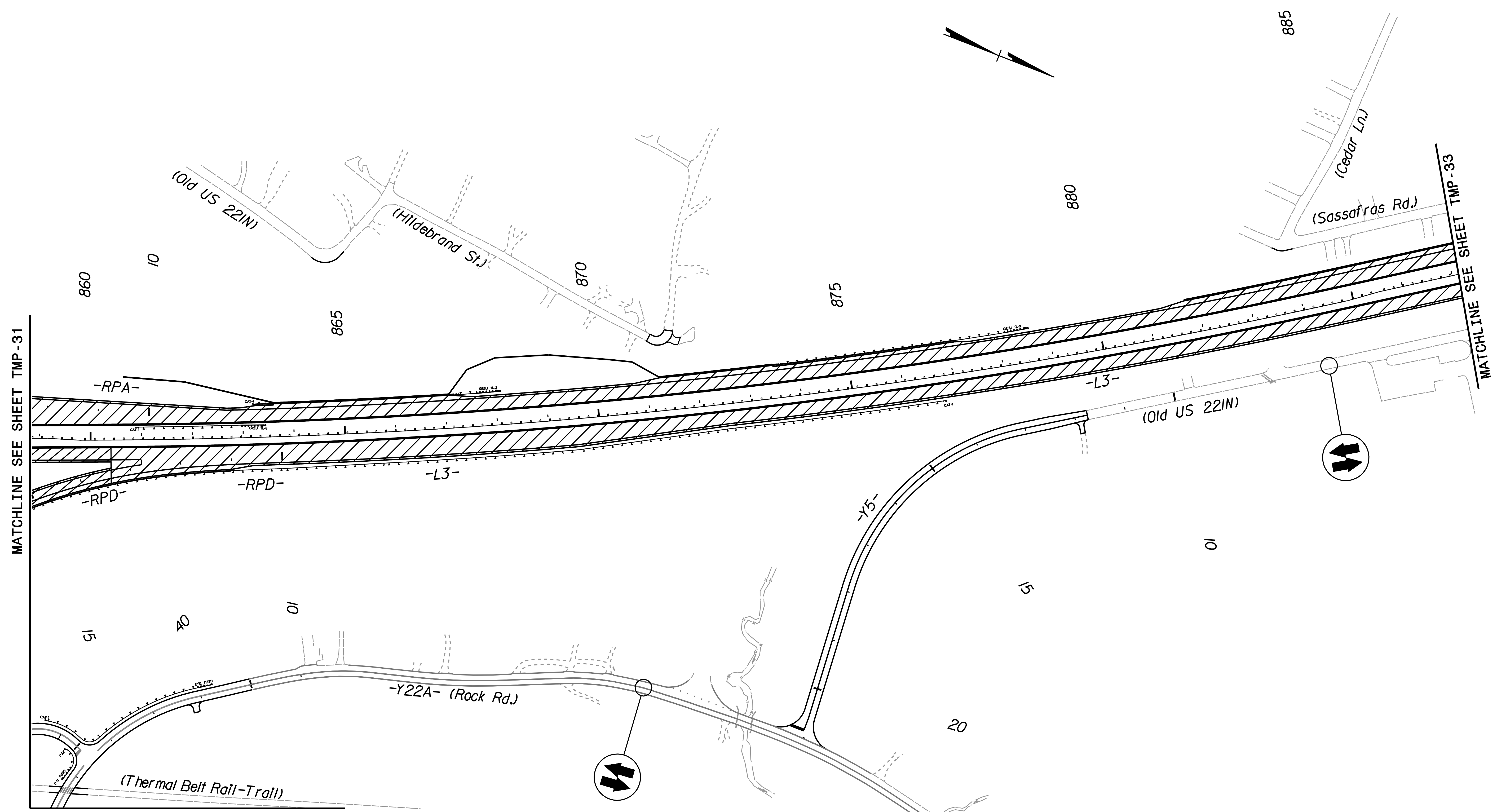
MATCHLINE C-C THIS SHEET

MATCHLINE SEE SHEET TMP-32

MATCHLINE D-D SHEET TMP-37

MATCHLINE E-E SHEET TMP-37





DOCUMENT NOT CONSIDERED FINAL  
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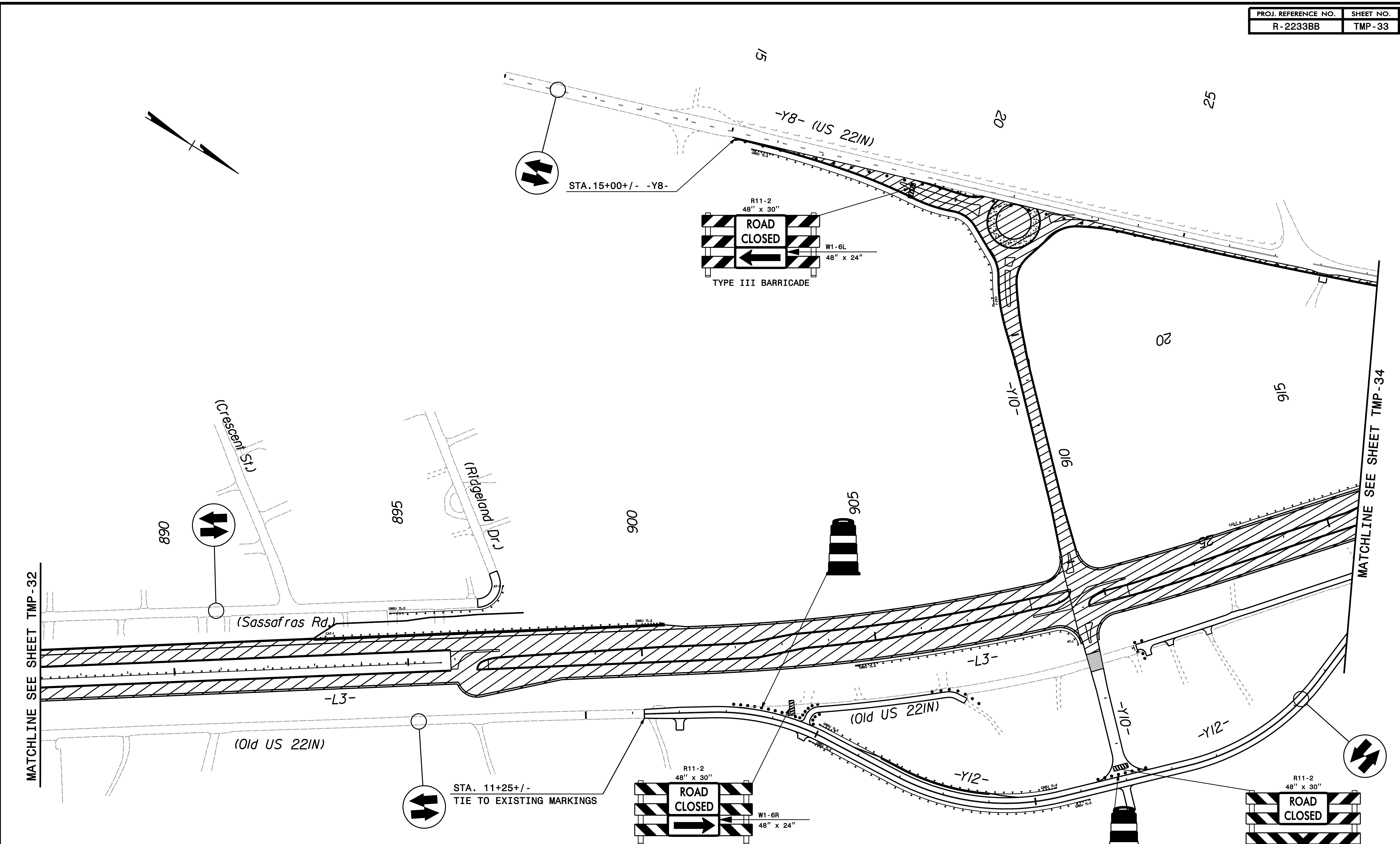
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MANAGEMENT PLAN  
PHASE II OVERVIEWS**





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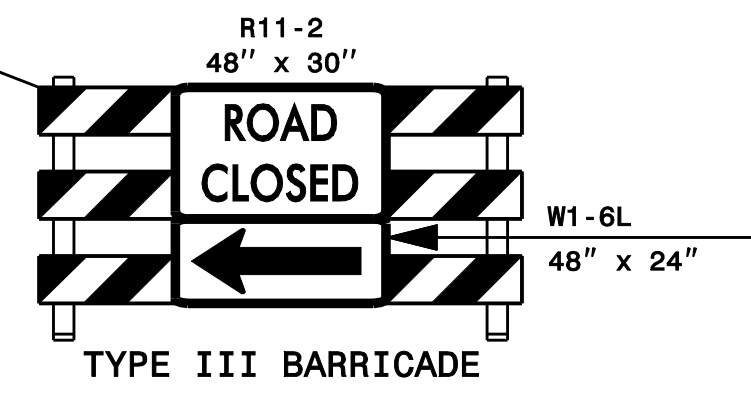
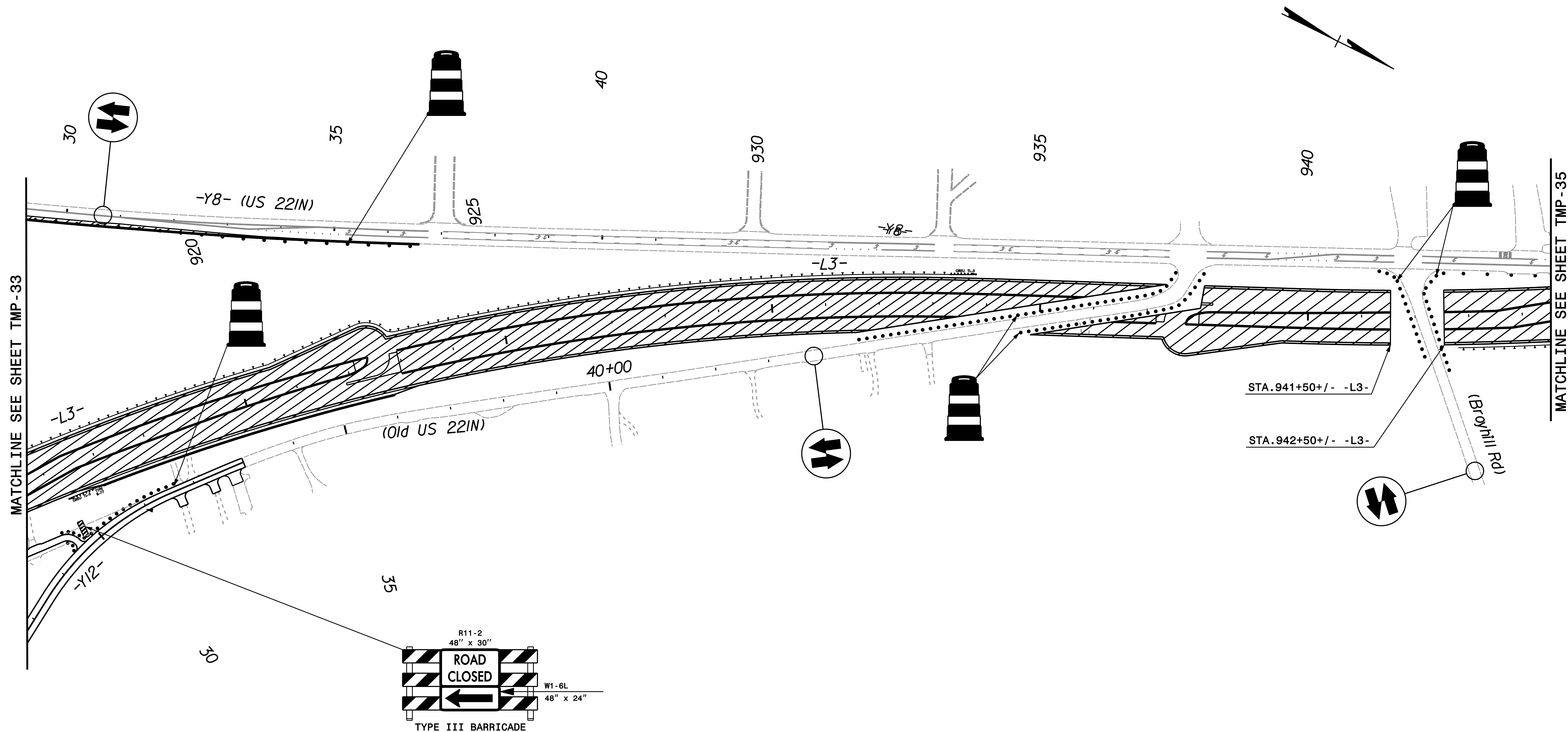
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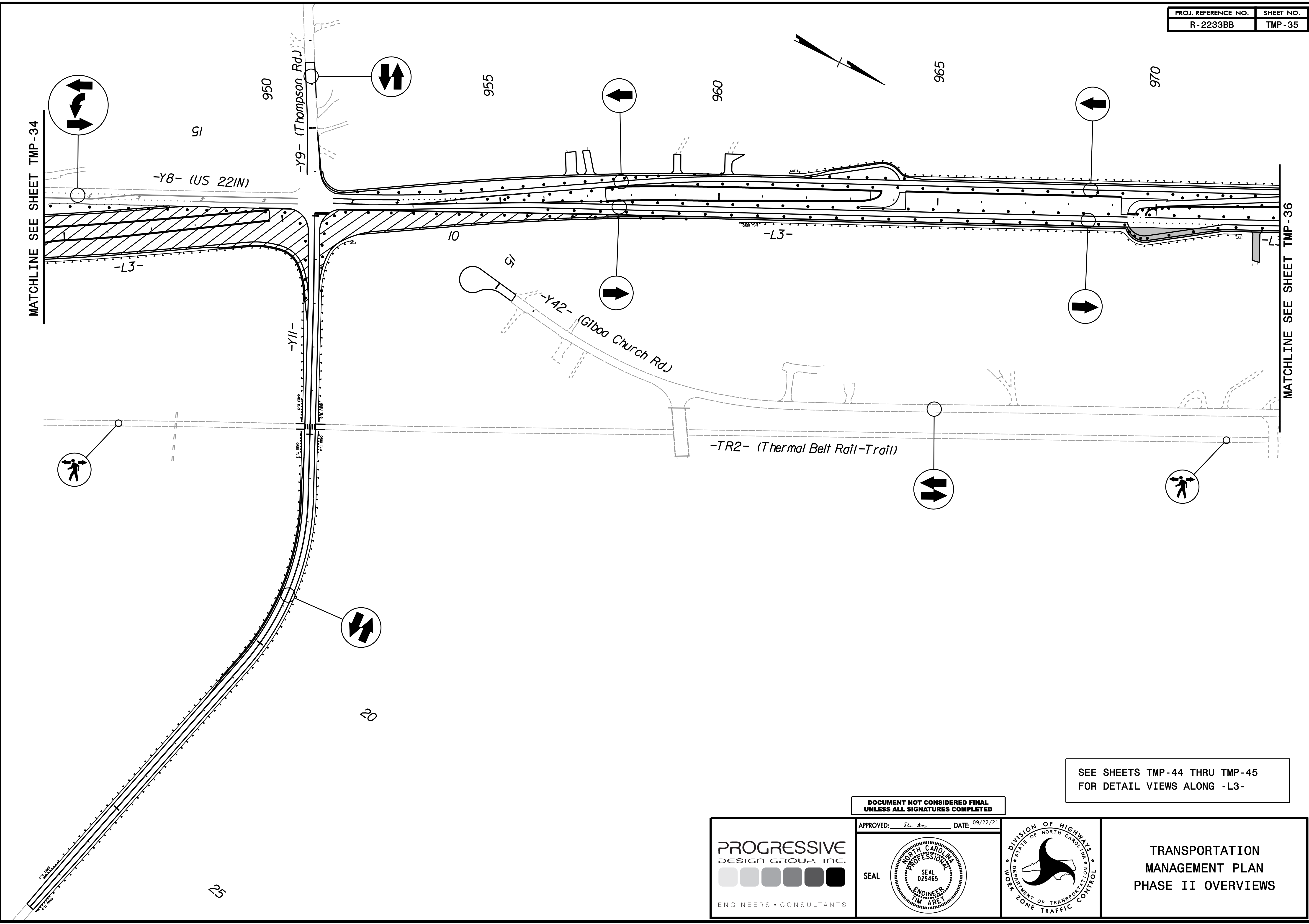
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 NORTH CAROLINA PROFESSIONAL ENGINEER  
 SEAL 025465  
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SEE SHEETS TMP-44 THRU TMP-45  
FOR DETAIL VIEWS ALONG -L3-

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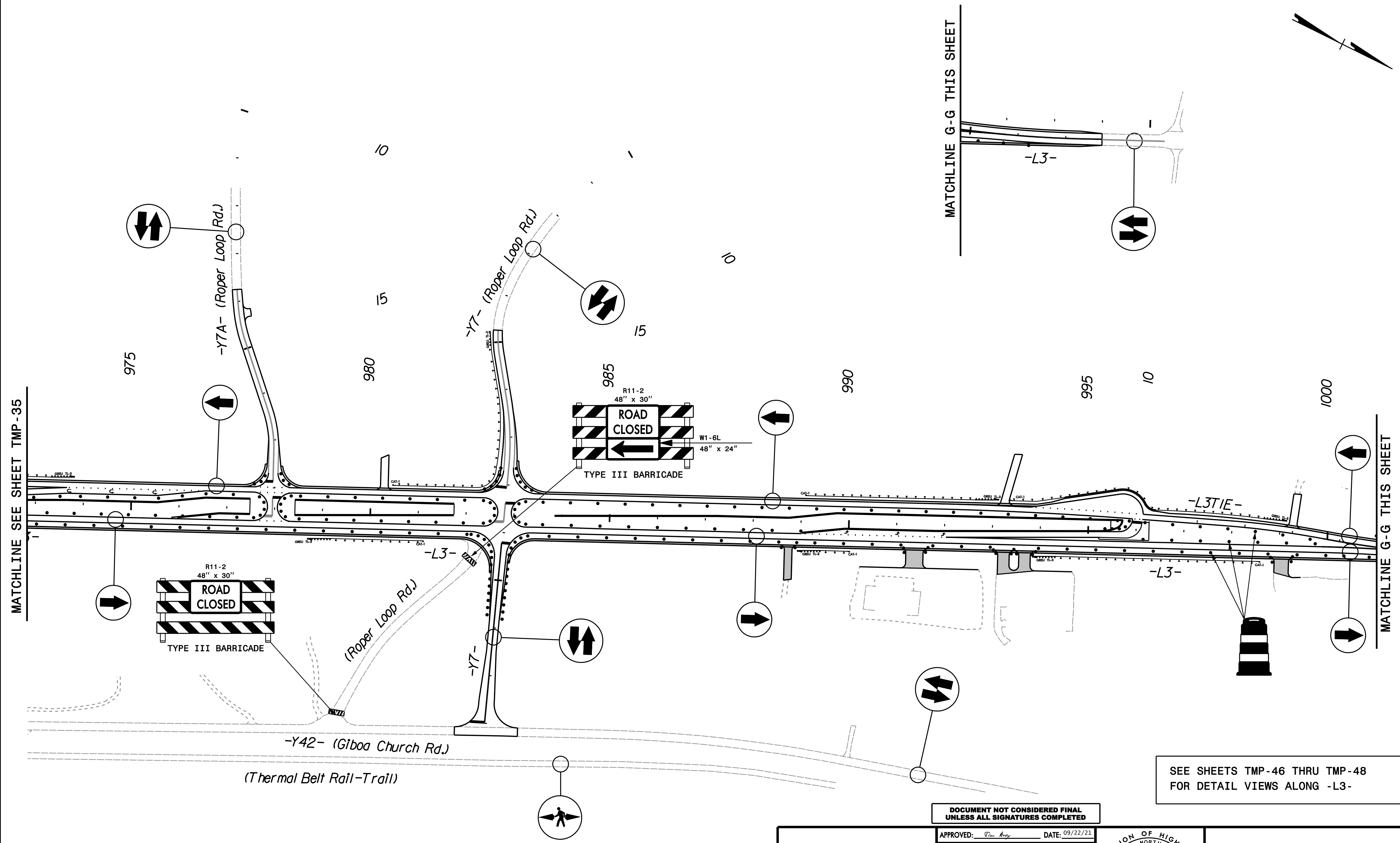
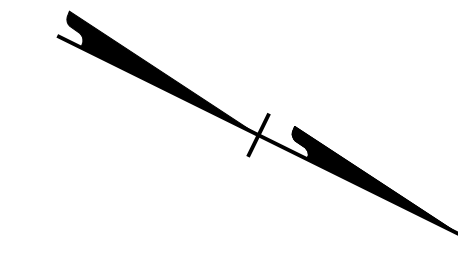
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MATCHLINE SEE SHEET TMP-35

MATCHLINE G-G THIS SHEET

SEE SHEETS TMP-46 THRU TMP-48 FOR DETAIL VIEWS ALONG -L3-

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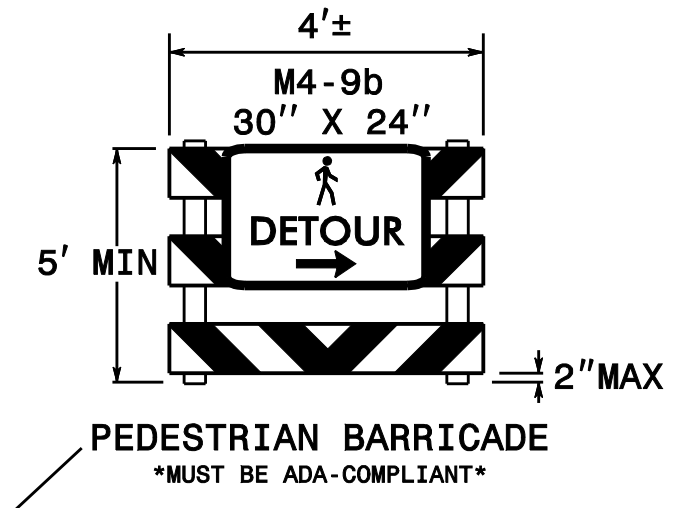
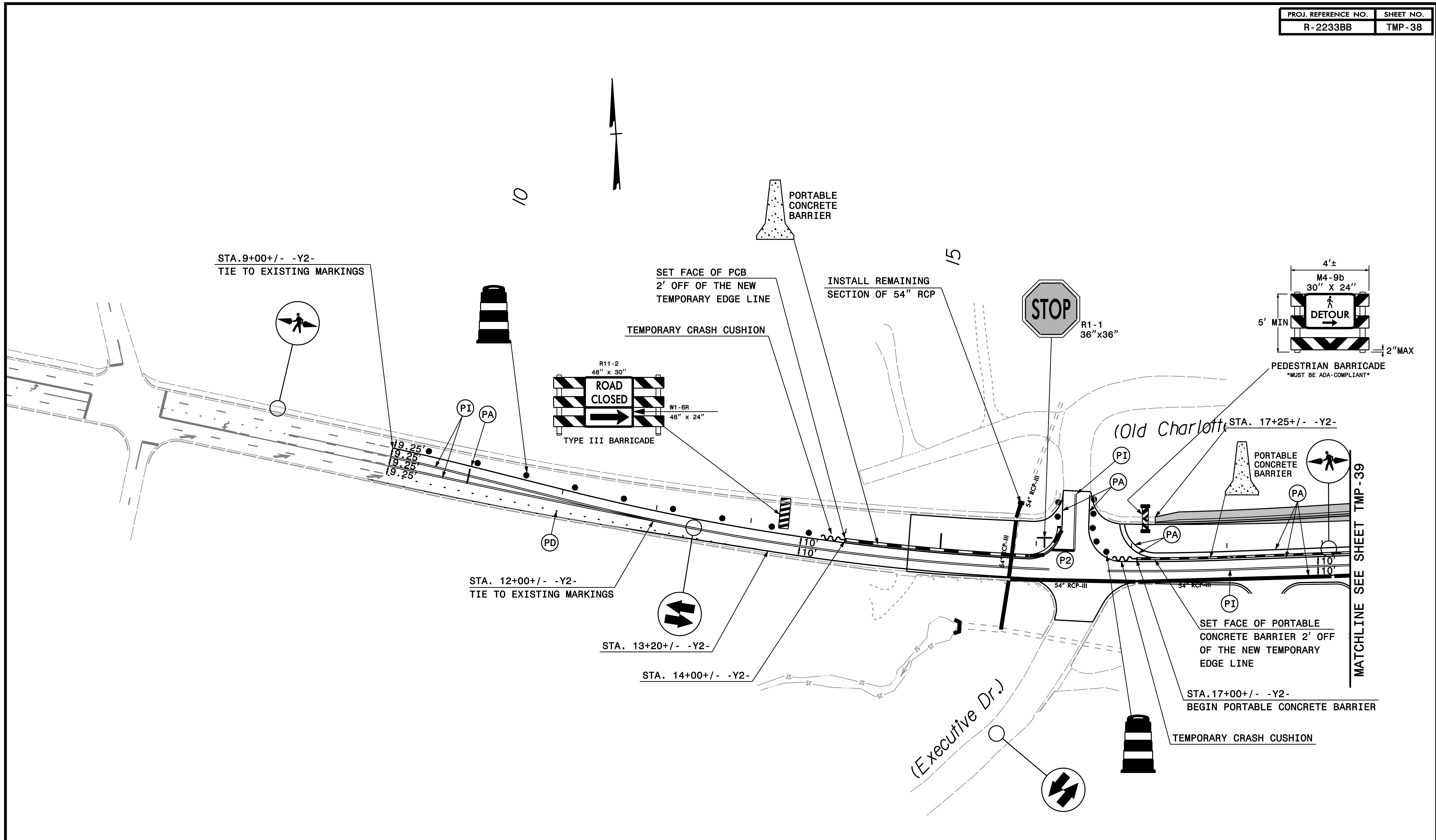
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**TRANSPORTATION MANAGEMENT PLAN  
PHASE II OVERVIEWS**









NOTE:  
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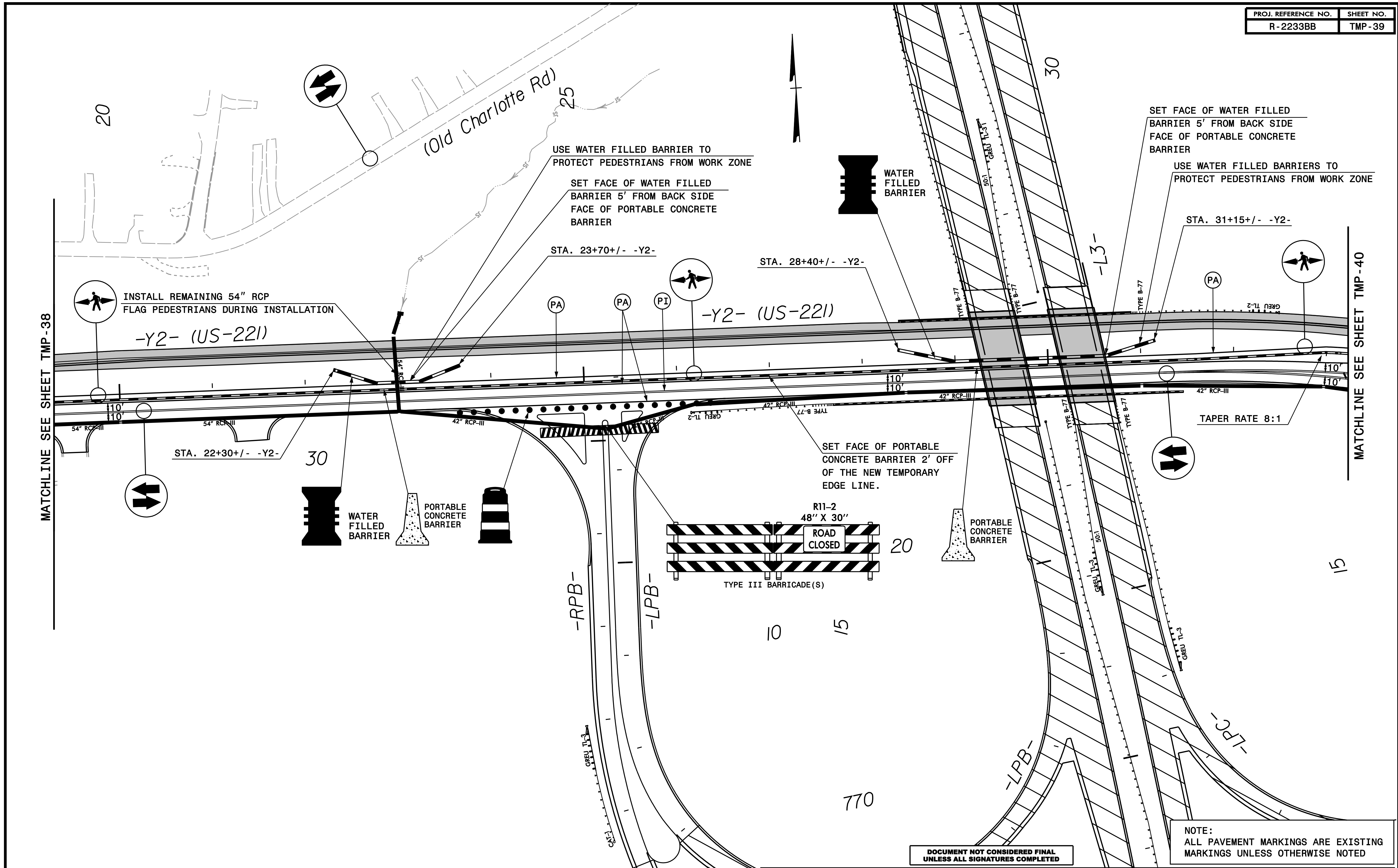
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PHASE II DETAILS

MATCHLINE SEE SHEET TMP-39





MATCHLINE SEE SHEET TMP-38

MATCHLINE SEE SHEET TMP-40

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NOTE:  
ALL PAVEMENT MARKINGS ARE EXISTING  
MARKINGS UNLESS OTHERWISE NOTED

PLAN PREPARED IN THE OFFICE OF:

**PROGRESSIVE**  
DESIGN GROUP, INC.

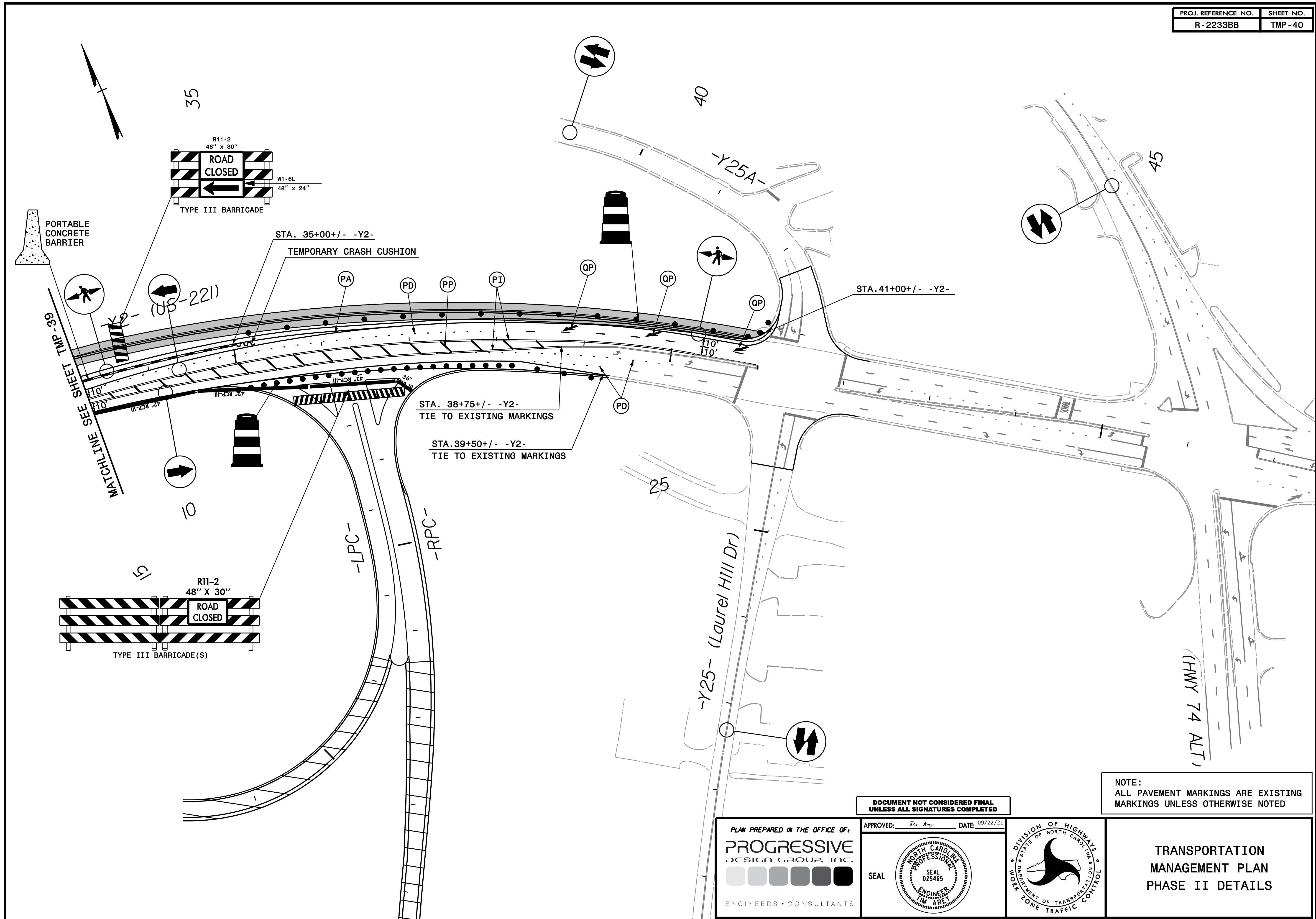
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APPROVED: *Tim Are* DATE: 09/22/23

SEAL

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MANAGEMENT PLAN  
PHASE II DETAILS**



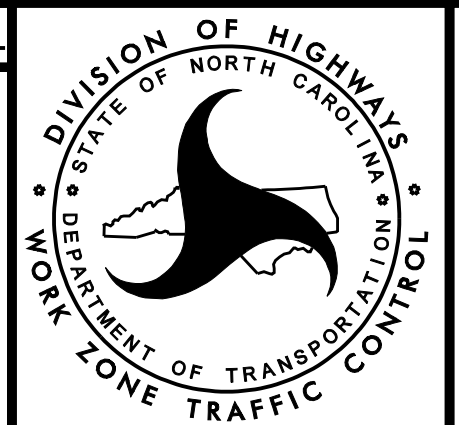
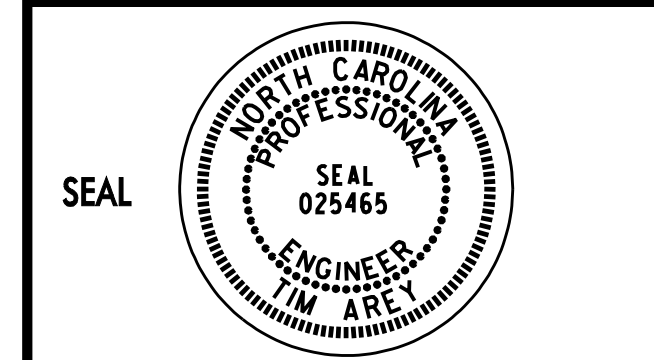


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DOCUMENT NOT CONSIDERED FINAL  
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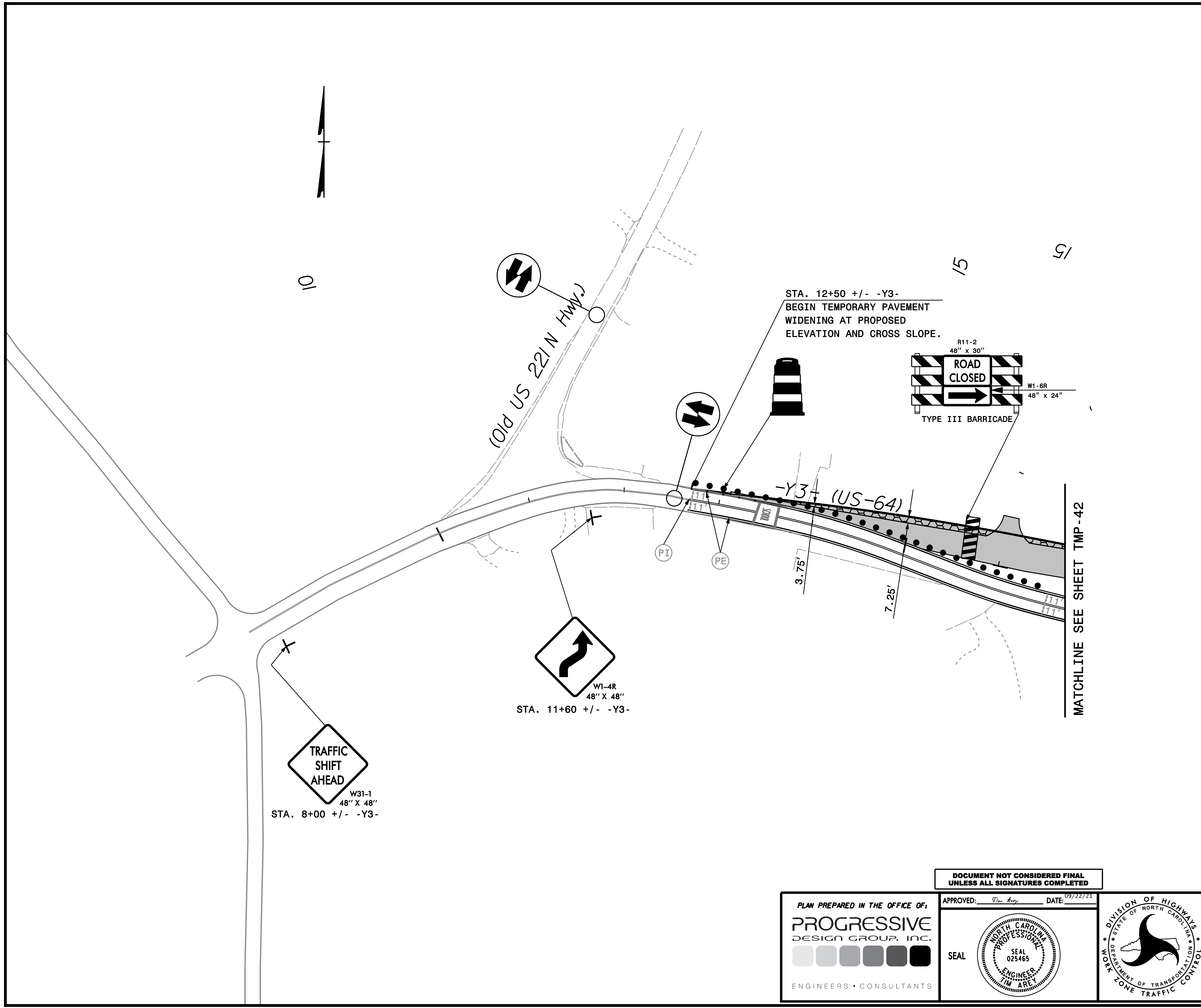
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APPROVED: *Tom Arvey* DATE: 09/22/21



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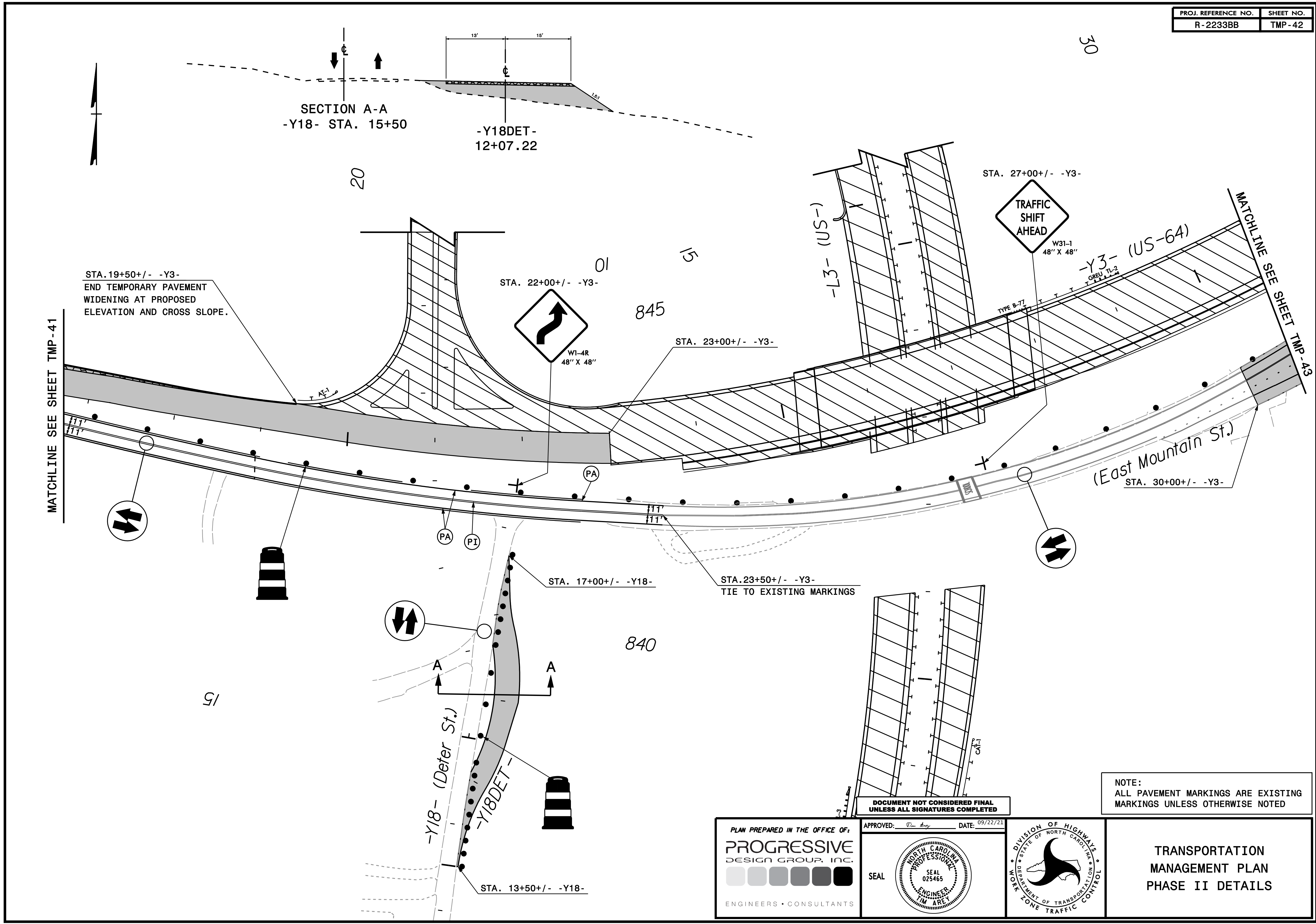
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STATE OF NORTH CAROLINA  
PROFESSIONAL  
ENGINEER  
TIM ARE

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

TRANSPORTATION  
MANAGEMENT PLAN  
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STA. 19+50+/- -Y3-  
END TEMPORARY PAVEMENT  
WIDENING AT PROPOSED  
ELEVATION AND CROSS SLOPE.

MATCHLINE SEE SHEET TMP-41

MATCHLINE SEE SHEET TMP-43

(East Mountain St.)  
STA. 30+00+/- -Y3-

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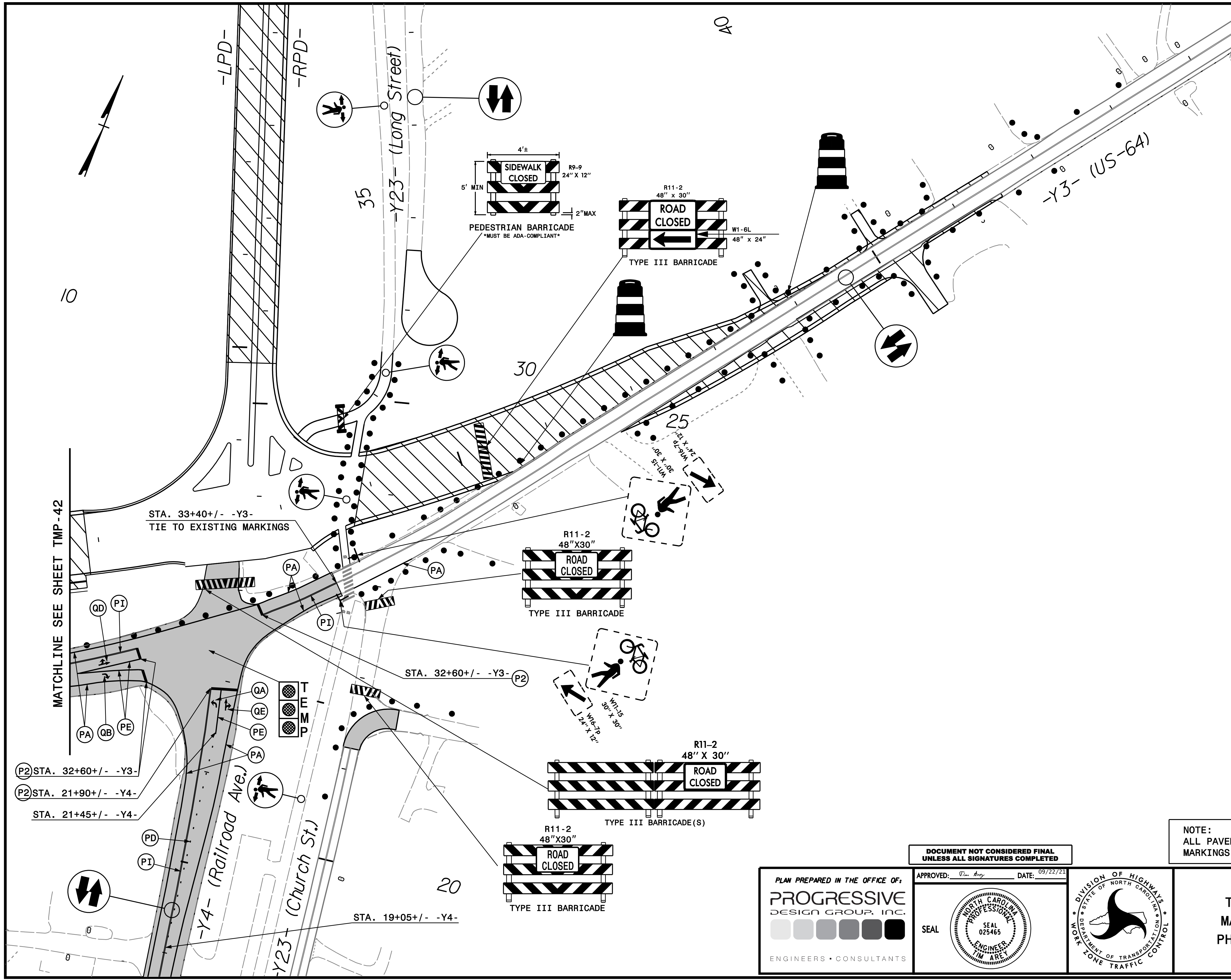
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MATCHLINE SEE SHEET TMP-42

STA. 33+40+/- -Y3-  
TIE TO EXISTING MARKINGS

(P2) STA. 32+60+/- -Y3-  
(P2) STA. 21+90+/- -Y4-  
STA. 21+45+/- -Y4-

STA. 32+60+/- -Y3- (P2)

STA. 19+05+/- -Y4-

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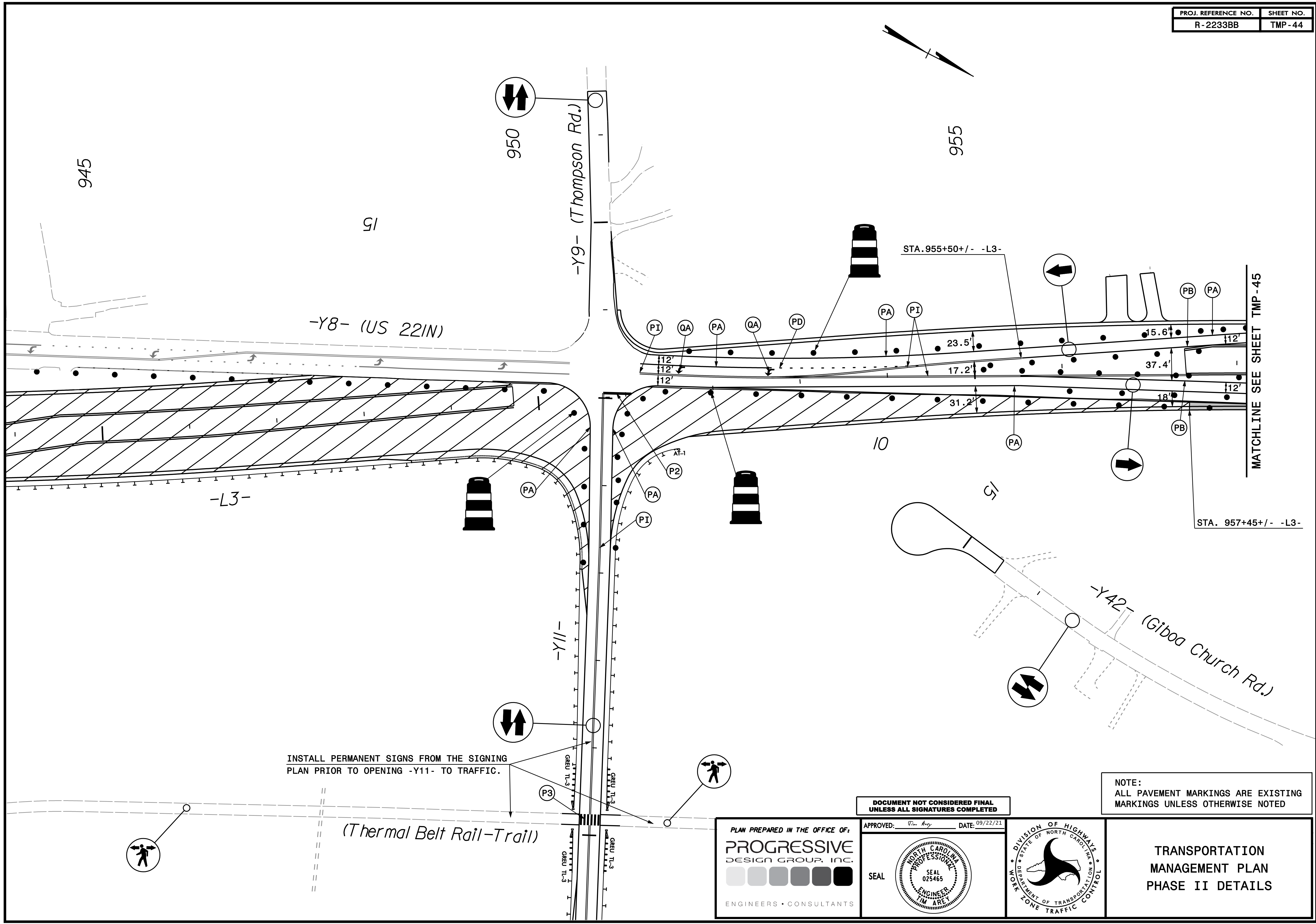
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### TRANSPORTATION MANAGEMENT PLAN PHASE II DETAILS





INSTALL PERMANENT SIGNS FROM THE SIGNING PLAN PRIOR TO OPENING -Y11- TO TRAFFIC.

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STATE OF NORTH CAROLINA  
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WORK ZONE TRAFFIC CONTROL

TRANSPORTATION MANAGEMENT PLAN  
PHASE II DETAILS