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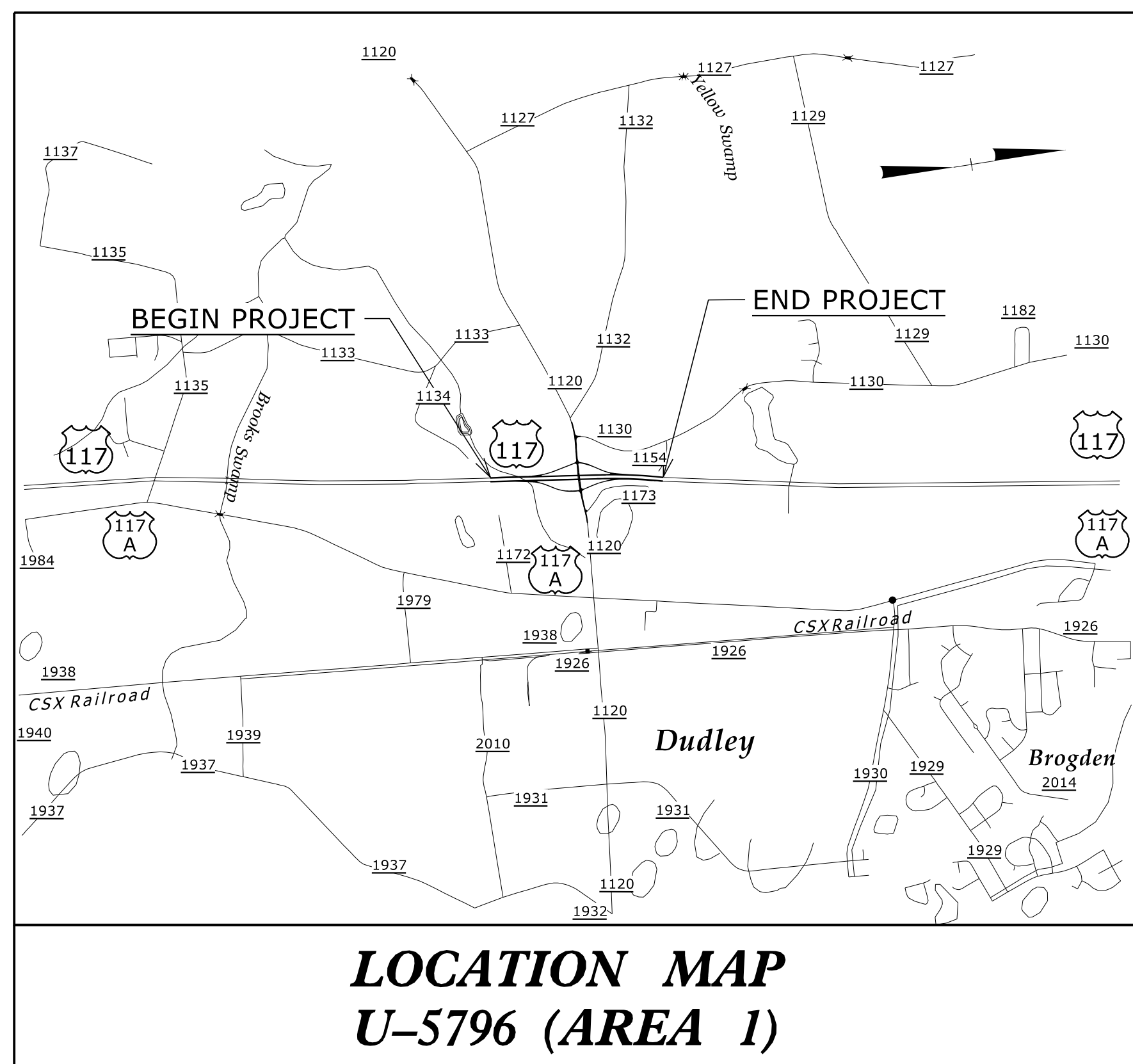
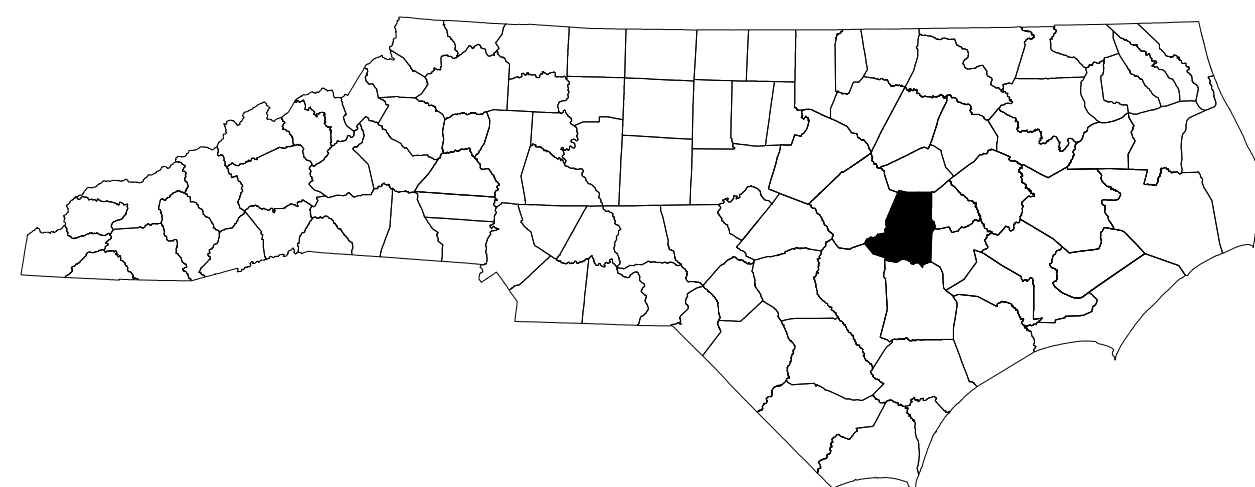
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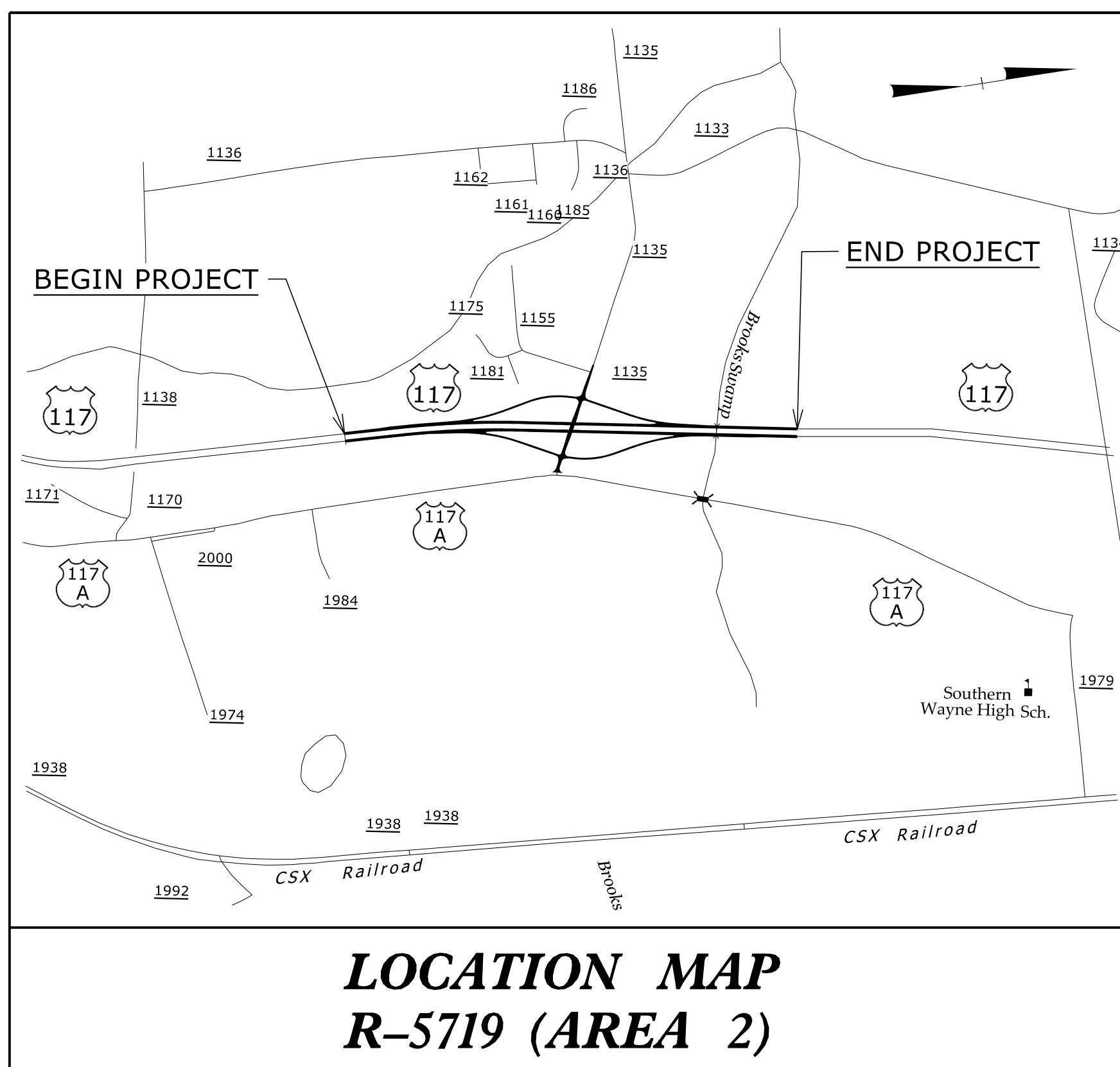
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

WAYNE COUNTY



LOCATION: US-117 & SR-1120 (O'BERRY RD.) INTERCHANGE
TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURE.



LOCATION: US-117 & SR-1135 (COUNTRY CLUB RD.) INTERCHANGE
TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURE.

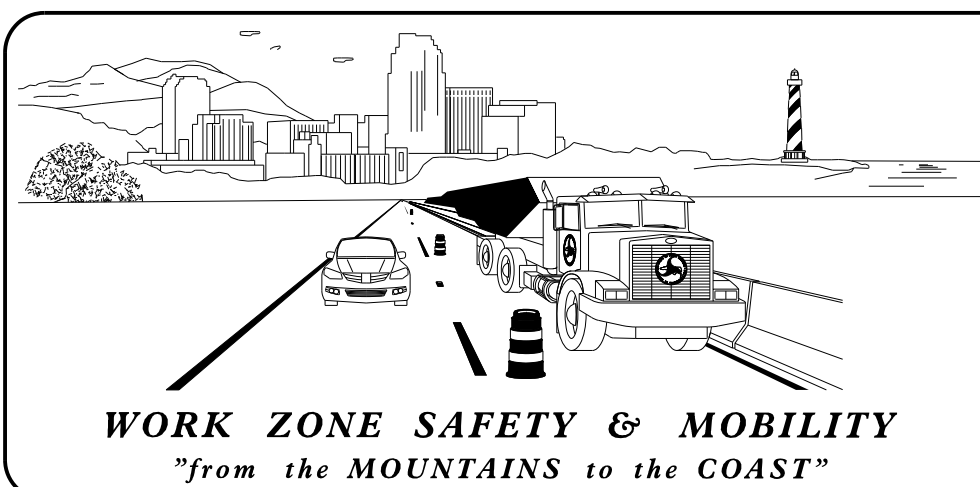
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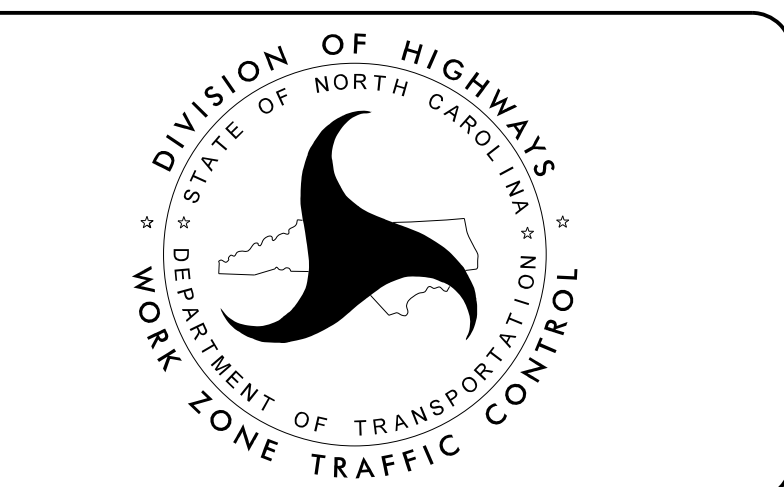
TIP PROJECT:

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N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561
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TBD TRAFFIC CONTROL DESIGN ENGINEER



PLAN PREPARED FOR NCDOT BY:

GREG S. PURVIS, P.E. PROJECT ENGINEER
JESSE W. GILSTRAP TRAFFIC CONTROL ENGINEER
SCOTT L. KENNEDY TRAFFIC CONTROL ENGINEER

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DATE: _____

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ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 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
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1101.11	TRAFFIC CONTROL DESIGN TABLES
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1170.01	POSITIVE PROTECTION
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1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXITS AND ENTRANCE RAMP
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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
- ON GOING CONSTRUCTION
- TEMPORARY PAVEMENT
- PAVEMENT WEDGING

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY
- TEMPORARY
- TEMPORARY
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TEMPORARY PAVEMENT MARKING

- COLD APPLIED PLASTIC 4" (TYPE 4) - REM. TAPE
- CA WHITE EDGELINE
- CB YELLOW EDGELINE
- CC 10' WHITE SKIP
- CD 2FT.-6FT./SP WHITE MINI-SKIP
- CI YELLOW DOUBLE CENTER
- PAINT (4")
- PA WHITE EDGELINE
- PB YELLOW EDGELINE
- PI YELLOW DOUBLE CENTER
- PD 3FT.-9FT./SP WHITE MINI-SKIP
- PE WHITE SOLID LANE LINE
- PH YELLOW SINGLE CENTER
- PC 10' WHITE SKIP
- P8 2FT.-6FT./SP WHITE MINI-SKIP
- PAINT (8")
- PN WHITE GORE LINE
- PP YELLOW DIAGONAL

TRAFFIC CONTROL DEVICES

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

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

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

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

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MANAGEMENT STRATEGIES

GENERAL NOTES / LOCAL NOTES

CONSTRUCTION

CONSTRUCT TWO NEW INTERCHANGES AT THE EXISTING INTERSECTIONS OF US 117 (-L-) WITH O'BERRY ROAD (SR 1120/-Y8-) AND COUNTRY CLUB ROAD (SR 1135/-Y1-).

TMP DESIGN PARAMETERS

THIS PROJECT IS DIVIDED INTO TWO AREAS (SEE SHEETS TMP-3). THE CONTRACTOR MAY WORK AREAS SIMULTANEOUSLY AND/OR INDEPENDENTLY. EACH AREA WILL BE CONSTRUCTED UNDER INDIVIDUAL ICTs.

AREA 1 (U-5796): INTERCHANGE AT O'BERRY ROAD (-Y8-)

O'BERRY ROAD (-Y8-) WILL BE CLOSED AND TRAFFIC PLACED ON AN OFF-SITE DETOUR. PROPOSED O'BERRY ROAD (-Y8-), PROPOSED BRIDGE OVER US 117 (-L-) AND PROPOSED RAMPS WILL BE CONSTRUCTED. TRAFFIC ON US 117 (-L-) SHALL BE STOPPED FOR 30 MINUTE INTERVALS AT NIGHT FOR GIRDER INSTALLATION.

PROPOSED INSIDE & OUTSIDE WIDENING OF US 117 (-L-) SHALL BE CONSTRUCTED IN THE VICINITY OF THE PROPOSED BRIDGE AND PORTABLE CONCRETE BARRIER INSTALLED. THIS WILL ALLOW POSITIVE PROTECTION FOR THE CONSTRUCTION OF PROPOSED END BENTS & CENTER BENT. REMAINDER OF PROPOSED WIDENING OF US 117 (-L-) AND PROPOSED RAMP TIE-INS SHALL BE CONSTRUCTED UTILIZING LANE CLOSURES.

AREA 2 (R-5719): INTERCHANGE AT COUNTRY CLUB ROAD (-Y1-)

PROPOSED ON/OFF-RAMPS SHALL BE CONSTRUCTED. PROPOSED RAMPS SHALL BE UTILIZED AS ON-SITE DETOURS FOR CONSTRUCTION OF PROPOSED US 117 (-L-) AND PROPOSED BRIDGES. TRAFFIC ON COUNTRY CLUB ROAD (-Y1-) SHALL BE STOPPED FOR 30 MINUTE INTERVALS AT NIGHT FOR GIRDER INSTALLATION.

PORTABLE CONCRETE BARRIER SHALL BE INSTALLED ALONG THE OUTSIDE SHOULDERS OF COUNTRY CLUB ROAD (-Y1-) IN THE VICINITY OF THE PROPOSED BRIDGES. THIS WILL ALLOW POSITIVE PROTECTION FOR THE CONSTRUCTION OF PROPOSED END BENTS. ONCE THE PORTABLE CONCRETE BARRIER IS NO LONGER REQUIRED, IT SHALL BE REMOVED AND PROPOSED COUNTRY CLUB ROAD (-Y1-) SHALL BE CONSTRUCTED UTILIZING FLAGGING OPERATIONS.

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 UNDESIRABLE 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 STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
1. US 117	5:00 AM TO 12:00 MIDNIGHT MONDAY THROUGH SUNDAY	30 MINUTES, GIRDER INSTALLATION
2. COUNTRY CLUB ROAD	5:00 AM TO 12:00 MIDNIGHT MONDAY THROUGH SUNDAY	30 MINUTES, GIRDER INSTALLATION
3. ALL ROADS	6:00 AM TO 9:00 AM AND 3:00 PM TO 6:00 PM MONDAY THROUGH FRIDAY	15 MINUTES, TRAFFIC OPERATIONS

B) 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

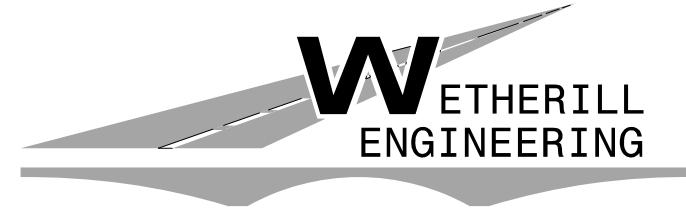
C) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED, OR AS DIRECTED BY THE ENGINEER.

D) 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.

E) 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.

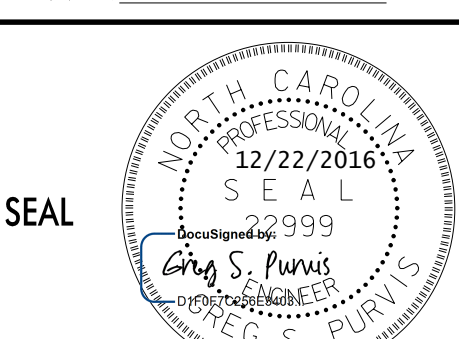
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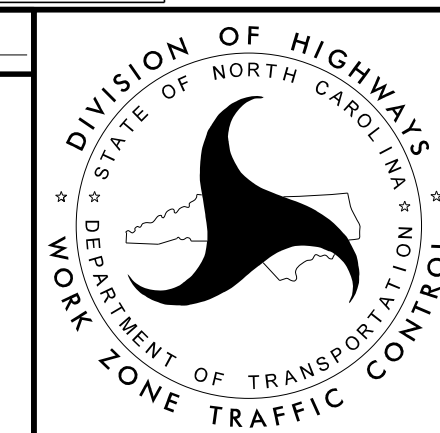


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MANAGEMENT STRATEGIES AND GENERAL NOTES / LOCAL NOTES

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GENERAL NOTES / LOCAL NOTES (CONT)

- F) 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.
- G) 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.
- H) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

PAVEMENT EDGE DROP OFF REQUIREMENTS

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

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

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

 BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.
- J) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 500 FT IN ADVANCE AND A MINIMUM OF ONCE EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

- K) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

- L) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- M) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

 PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.
- N) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

 COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.
- O) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- P) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 500 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC BARRIER

- Q) 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 TRAFFIC CONTROL 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.

- R) 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.

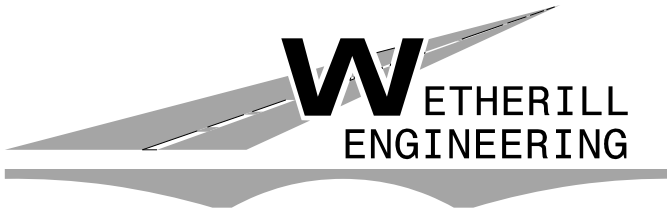
PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER FROM ONCOMING TRAFFIC AT ALL TIMES BY A TEMPORARY CRASH CUSHION UNLESS THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER IS OFFSET FROM ONCOMING TRAFFIC AS FOLLOWS OR AS SHOWN IN THE PLANS:

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

- S) 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.

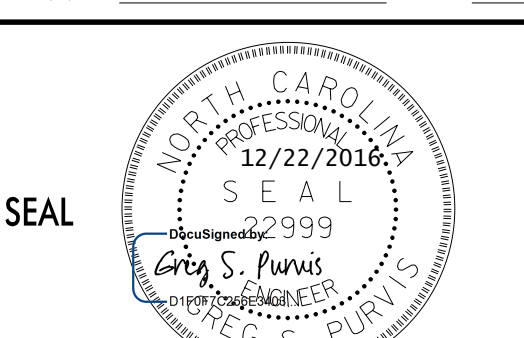
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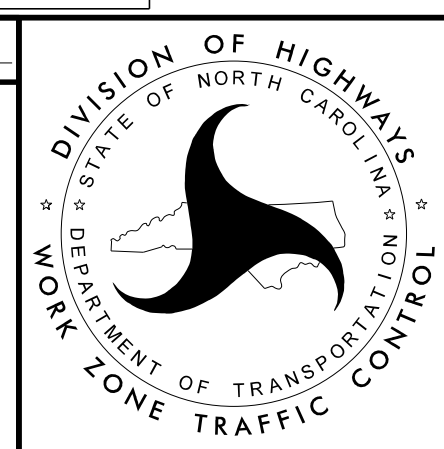


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GENERAL NOTES/
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GENERAL NOTES / LOCAL NOTES (CONT)

- T) PLACE TYPE III BARRICADES WITH "ROAD CLOSED" SIGN R11-2 ATTACHED OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- U) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES (DRUMS, CONES OR SKINNY DRUMS) PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 1000 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

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

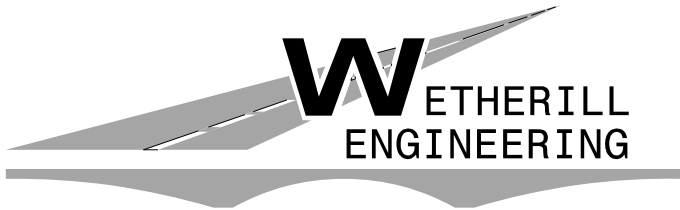
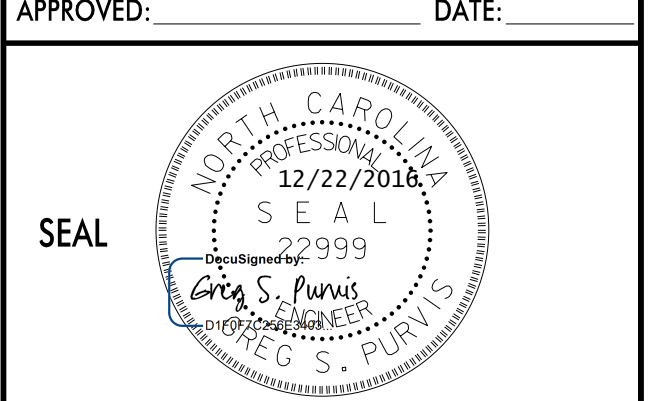

ROAD NAME	MARKING	MARKER
1. ALL ROADS	PAINT	TEMPORARY RAISED
2. PROPOSED BRIDGE DECKS	COLD APPLIED PLASTIC TYPE IV (REMOVABLE TAPE)	TEMPORARY RAISED

- W) 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.
- X) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- Y) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.
- Z) TRACE THE (EXISTING AND/OR PROPOSED) MONOLITHIC ISLAND LOCATIONS WITH THE PROPER COLOR PAVEMENT MARKING PRIOR TO (REMOVAL AND/OR INSTALLATION). PLACE DRUMS TO DELINEATE ANY (EXISTING AND/OR PROPOSED) MONOLITHIC ISLANDS (AFTER REMOVAL AND/OR BEFORE INSTALLATION).

MISCELLANEOUS

- AA) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS, AS DIRECTED BY THE ENGINEER.

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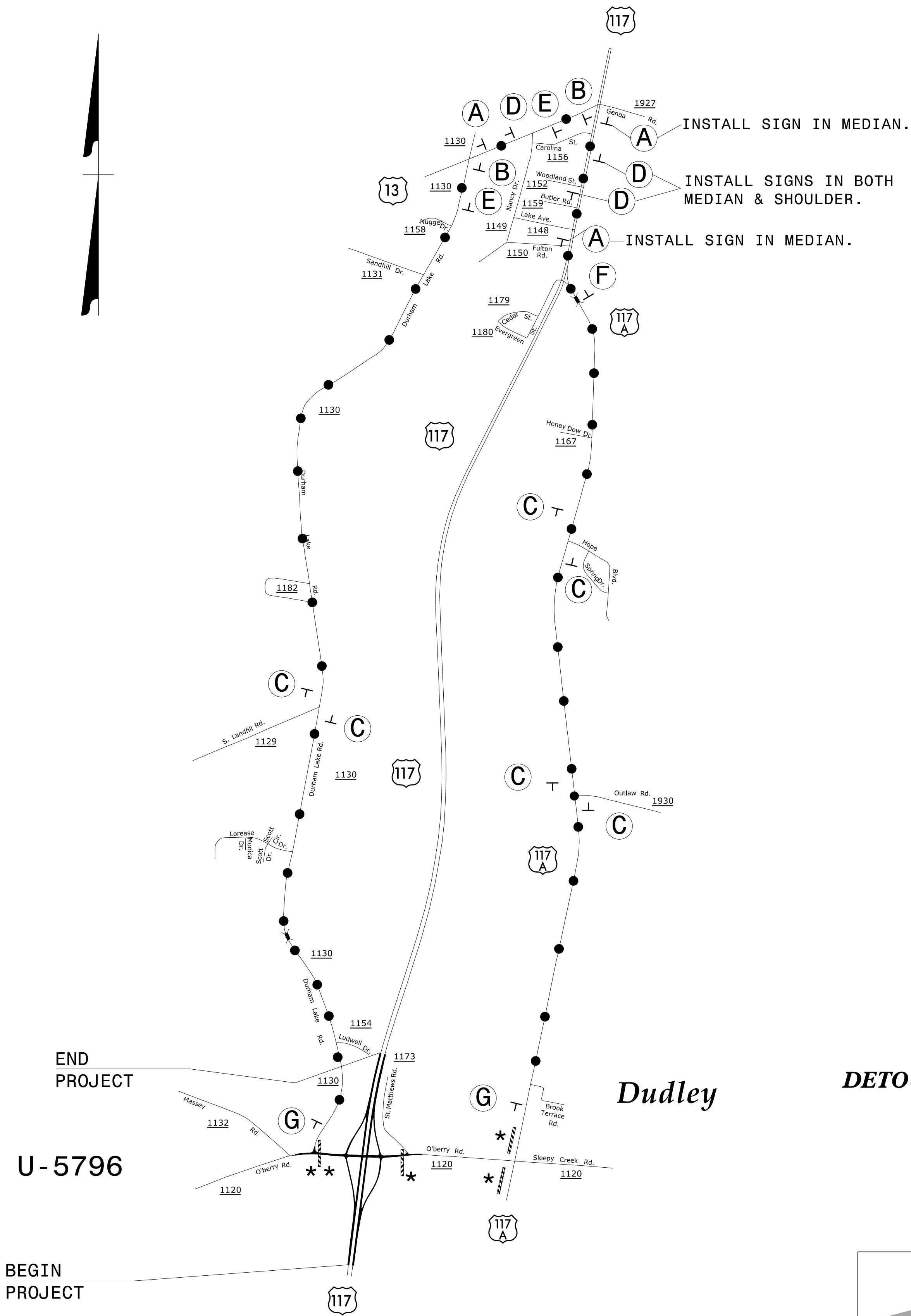
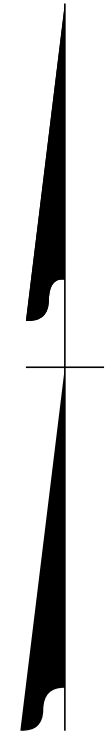
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U-5796	TMP-2
R-5719	

<p>SIGN NUMBER: name TYPE: STATIONARY QUANTITY: SEE PLANS SIGN WIDTH: 4'-0" HEIGHT: 2'-0" TOTAL AREA: 8.0 Sq.Ft. BORDER TYPE: INSET RECESS: 0.47" WIDTH: 0.63" RADII: 1.5" NO. Z BARS: LENGTH:</p> <p style="text-align: center;">USE NOTES: 1,2</p> <p>1. Legend and border shall be direct applied black non-reflective sheeting. 2. Background shall be NC GRADE B fluorescent orange retroreflective sheeting.</p>	<p>BACKG COLOR: Fluorescent Orange COPY COLOR: Black</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SYMBOL</th> <th>X</th> <th>Y</th> <th>WID</th> <th>HT</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> <p style="text-align: center;">MAT'L: 0.080" (2.0 mm) ALUMINUM</p>	SYMBOL	X	Y	WID	HT																																																			<p>DESIGN BY: SLK PROJECT ID: U-5796</p> <p>CHECKED BY: JWG DIV: 4</p> <p style="text-align: right;">Apr 27, 2016</p> <div style="text-align: center;"> </div> <p style="text-align: center;">Spacing Factor is 1 unless specified otherwise</p> <p>LETTER POSITIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="10">Letter spacings are to start of next letter</th> <th>Series/Size</th> </tr> <tr> <th></th> <th>O</th> <th>'</th> <th>B</th> <th>E</th> <th>R</th> <th>R</th> <th>Y</th> <th></th> <th></th> <th>Text Length</th> </tr> </thead> <tbody> <tr> <td></td> <td>5.3</td> <td>5.9</td> <td>2.1</td> <td>6.1</td> <td>5.7</td> <td>6.1</td> <td>5.5</td> <td>6.1</td> <td>5.3</td> <td>D 2000 37.4</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>D 2000 23.8</td> </tr> <tr> <td></td> <td>12.1</td> <td>5.9</td> <td>5.9</td> <td>7.1</td> <td>4.9</td> <td>12.1</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p style="font-size: small;">FILENAME: Guidesign6_020916 NORTH CAROLINA D.O.T. SIGN DETAIL</p>	Letter spacings are to start of next letter										Series/Size		O	'	B	E	R	R	Y			Text Length		5.3	5.9	2.1	6.1	5.7	6.1	5.5	6.1	5.3	D 2000 37.4											D 2000 23.8		12.1	5.9	5.9	7.1	4.9	12.1				
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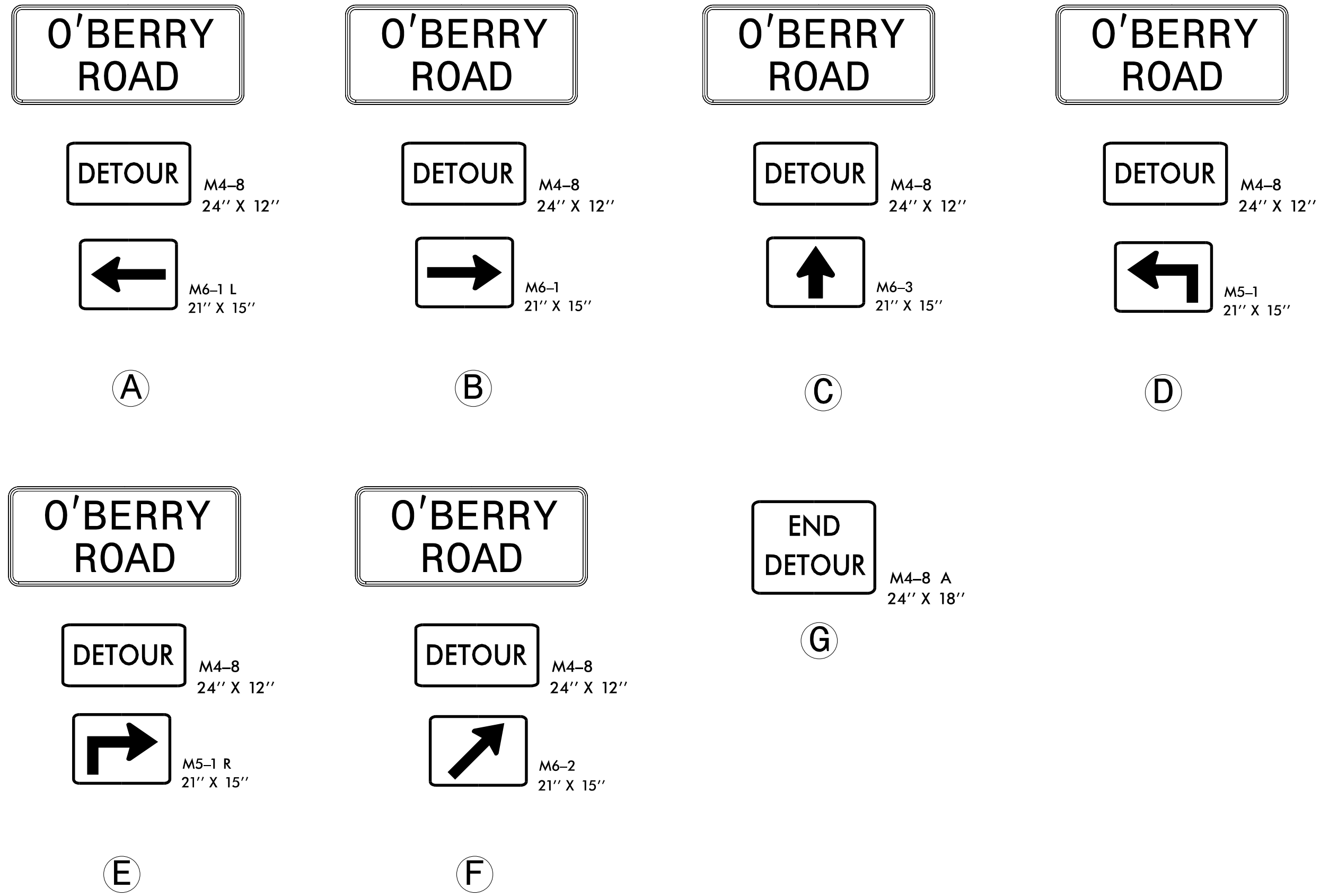
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<p style="font-size: x-small;"> 1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107 </p> <p style="font-size: x-small; text-align: center;"> TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION </p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; font-size: x-small;">APPROVED: _____</td> <td style="width: 50%; font-size: x-small;">DATE: _____</td> </tr> <tr> <td style="text-align: center; vertical-align: middle;"> SEAL </td> <td style="text-align: center; vertical-align: middle;"> </td> </tr> </table>	APPROVED: _____	DATE: _____	SEAL 	
APPROVED: _____	DATE: _____				
SEAL 					
SPECIAL SIGN DESIGN(S)					

OFF-SITE DETOUR WHEN O'BERRY ROAD IS CLOSED.



DETOUR SIGNING



NOTES: SEE TMP-2 FOR "O'BERRY ROAD" SPECIAL SIGN DESIGN.
 ALL DETOUR SIGN LOCATIONS ARE APPROXIMATE.
 * SEE RSD 1101.03, SHEET 1 OF 9, FOR TYPE III BARRICADE LOCATION WITH ATTACHED SIGNING & ADDITIONAL SIGNING FOR ROAD CLOSURE AND SHEET TMP-A1-7.
 ** SEE RSD 1101.03, SHEET 2 OF 9, FOR TYPE III BARRICADE LOCATION WITH ATTACHED SIGNING & ADDITIONAL SIGNING FOR ROAD CLOSURE AND SHEET TMP-A1-6.



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BEGIN PROJECT

U-5796

END PROJECT

Dudley

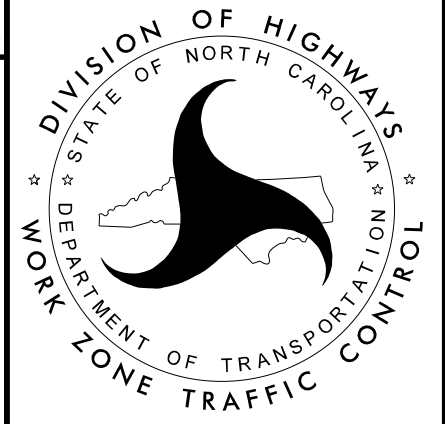
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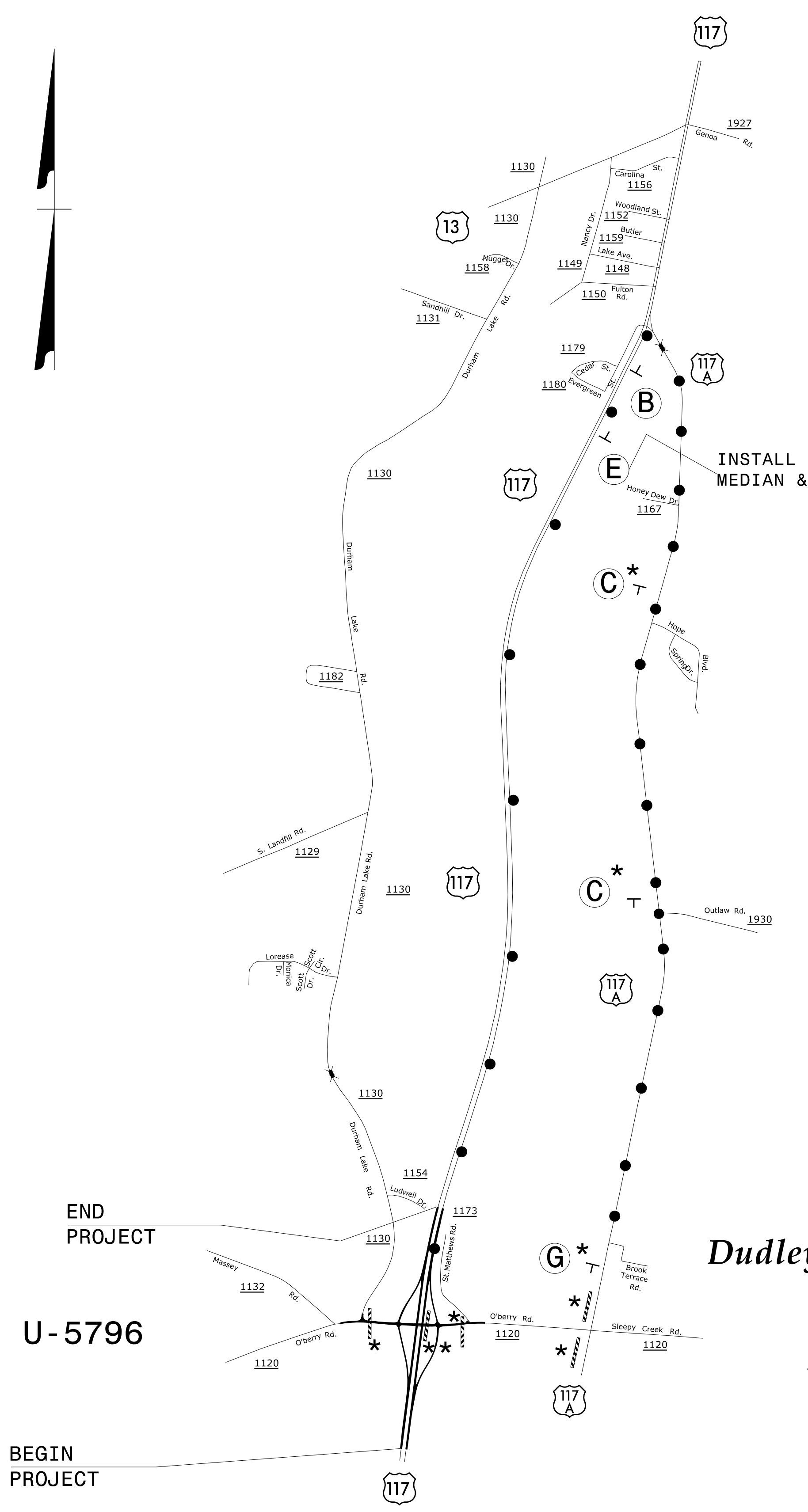
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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

APPROVED: _____ DATE: _____

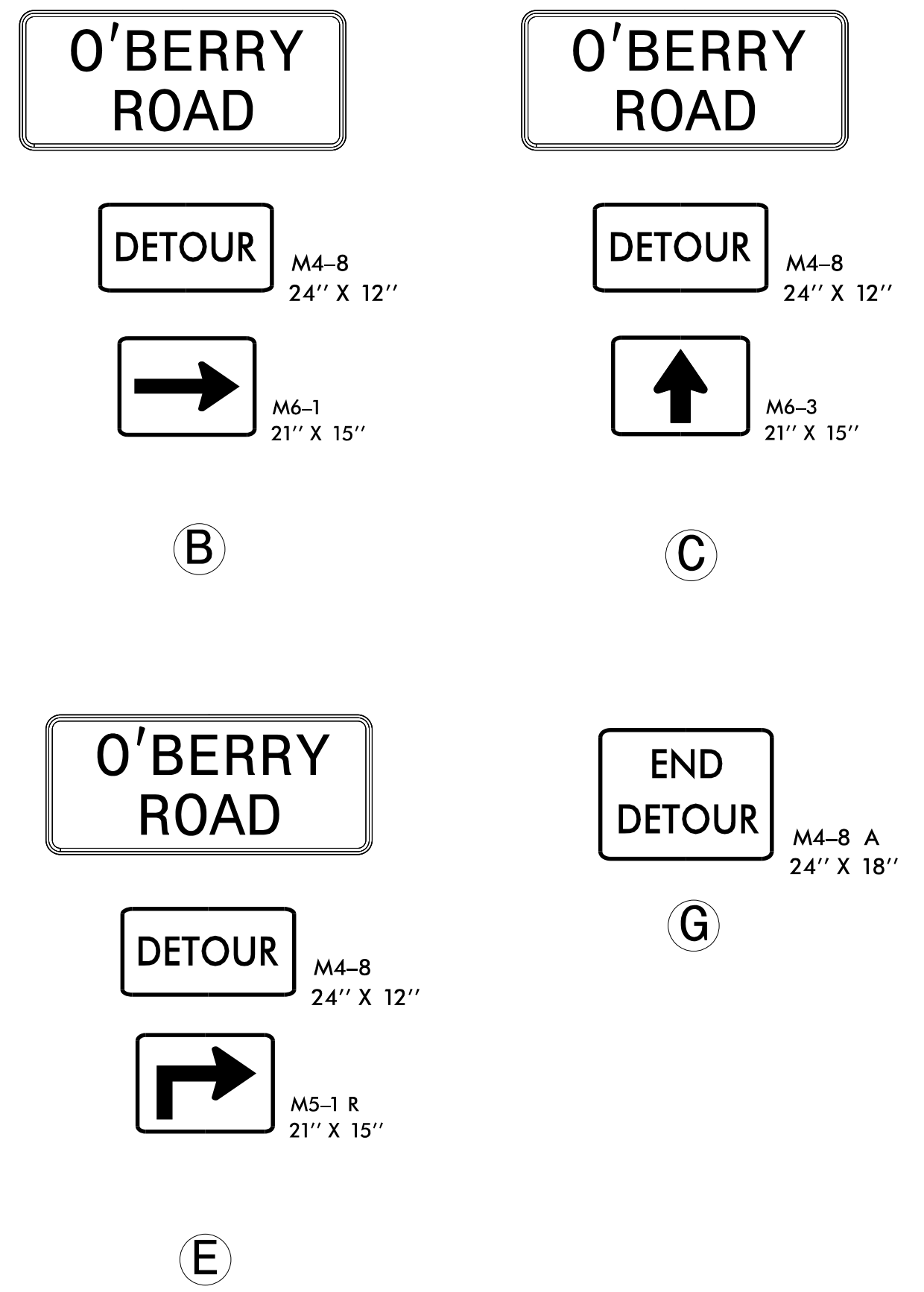


DETOUR
 O'BERRY RD. (-Y8-)



OFF-SITE DETOUR WHEN O'BERRY ROAD IS CLOSED.

DETOUR SIGNING



NOTES: SEE TMP-2 FOR "O'BERRY ROAD" SPECIAL SIGN DESIGN.
 ALL DETOUR SIGN LOCATIONS ARE APPROXIMATE.
 * SEE SHEET TMP-2A FOR DETOUR SIGNING, ETC.
 ** SEE RSD 1101.03, SHEET 1 OF 9, FOR TYPE III BARRICADE LOCATION WITH ATTACHED SIGNING & ADDITIONAL SIGNING FOR ROAD CLOSURE AND SHEET TMP-A1-4.

DETOUR ROUTE ●—●—●

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END PROJECT
 U-5796
 BEGIN PROJECT

Dudley



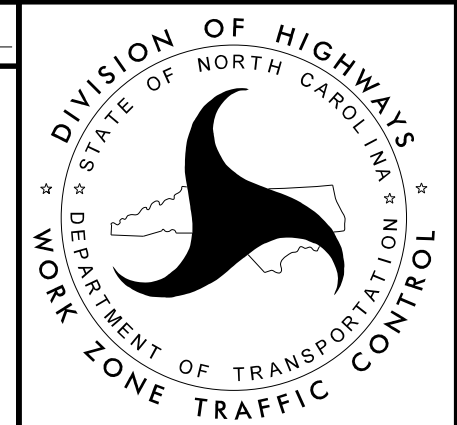
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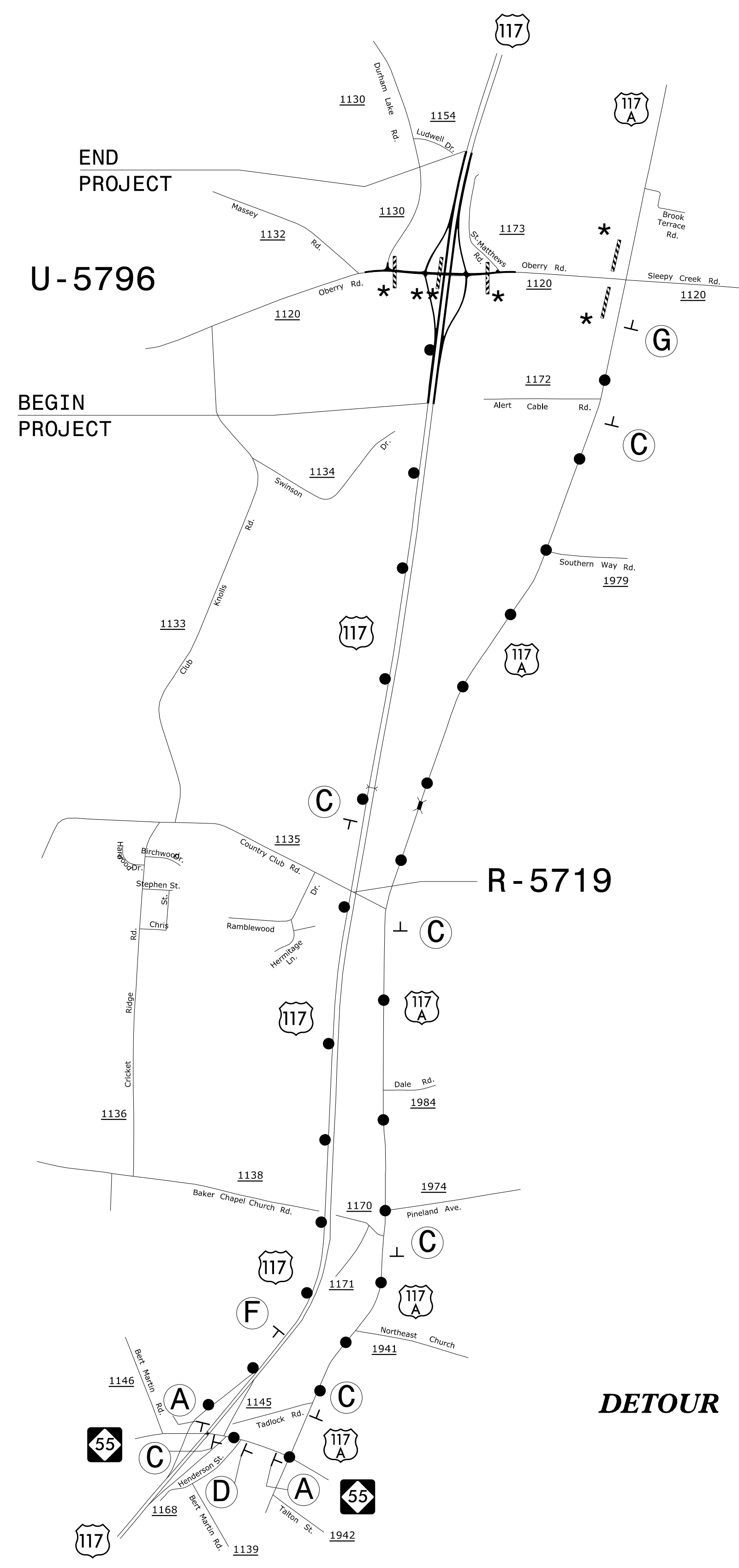
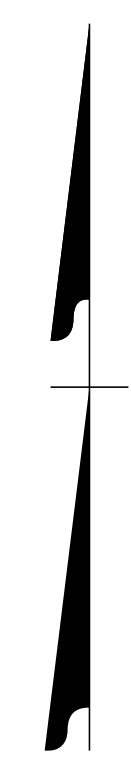
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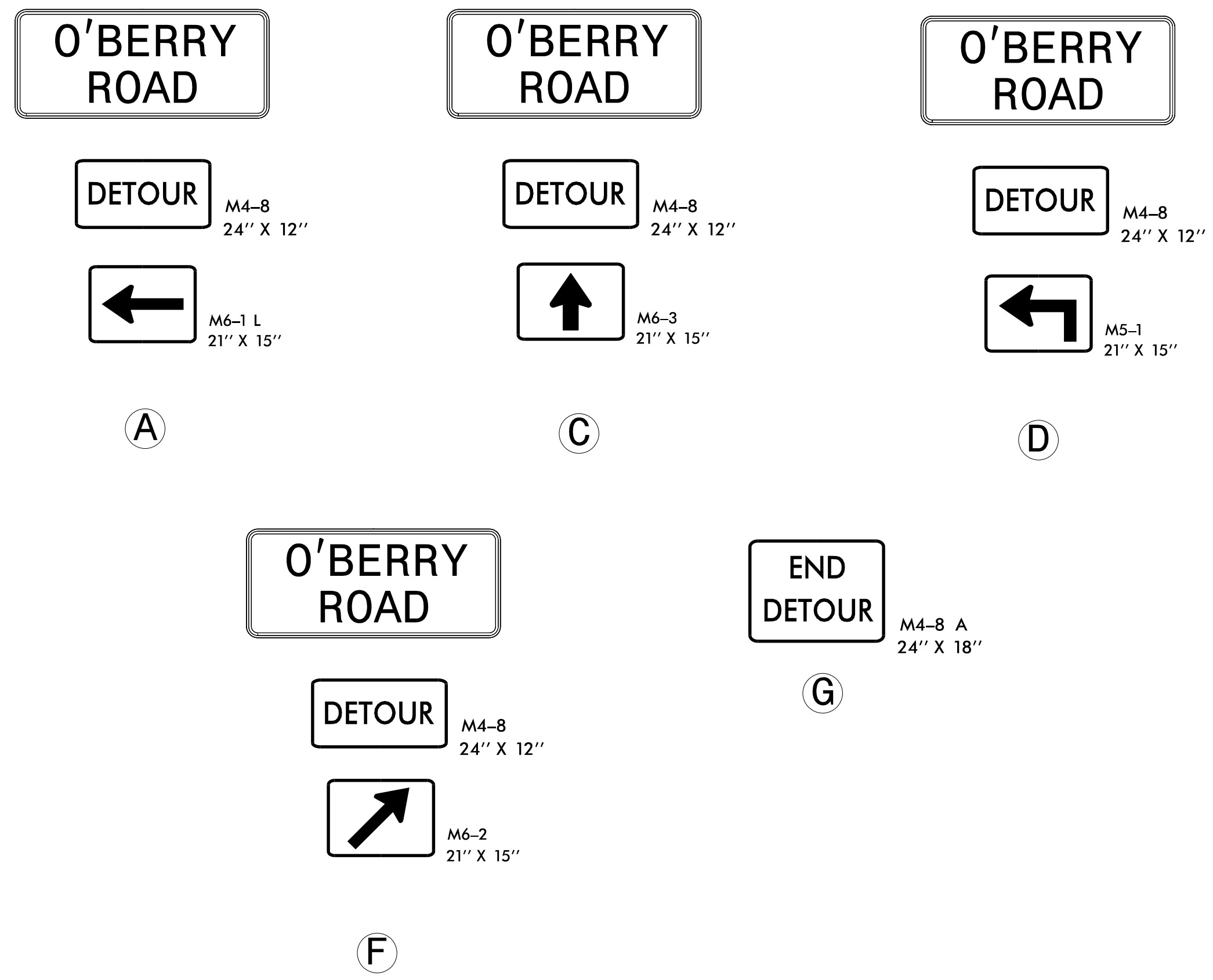
**DETOUR
 NB US 117**

PROJ. REFERENCE NO.	SHEET NO.
U-5796	TMP-2C
R-5719	



OFF-SITE DETOUR WHEN O'BERRY ROAD IS CLOSED.

DETOUR SIGNING



- NOTES: SEE TMP-2 FOR "O'BERRY ROAD" SPECIAL SIGN DESIGN.
 ALL DETOUR SIGN LOCATIONS ARE APPROXIMATE.
 * SEE SHEET TMP-2A FOR DETOUR SIGNING, ETC.
 ** SEE RSD 1101.03, SHEET 1 OF 9, FOR TYPE III BARRICADE LOCATION WITH ATTACHED SIGNING & ADDITIONAL SIGNING FOR ROAD CLOSURE AND SHEET TMP-A1-4.

DETOUR ROUTE ● — ● — ●

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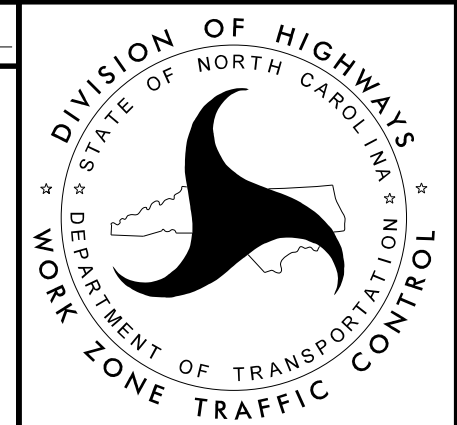


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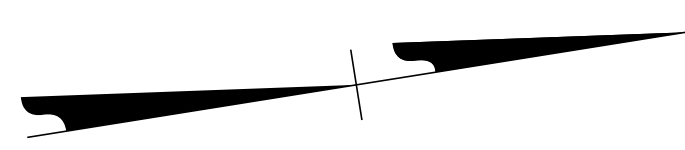
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**DETOUR
 SB US 117**

PROJ. REFERENCE NO.	SHEET NO.
U-5796	TMP-3
R-5719	

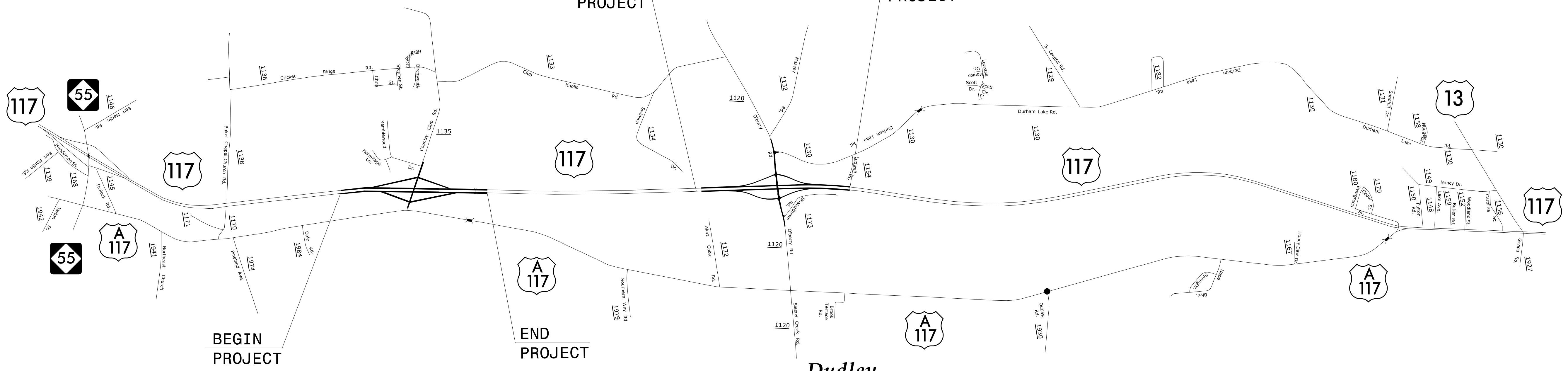


AREA 1
U-5796

SEE TMP-A1-1
TO TMP-A1-10

BEGIN
PROJECT

END
PROJECT



AREA 2
R-5719

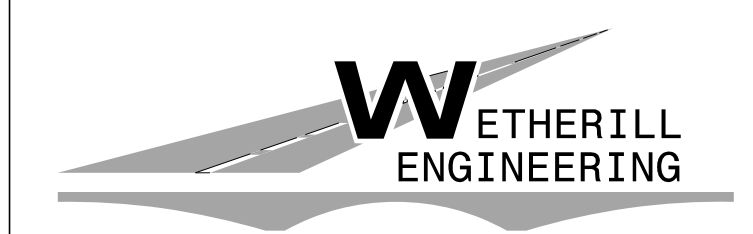
SEE TMP-A2-1
TO TMP-A2-18

BEGIN
PROJECT

END
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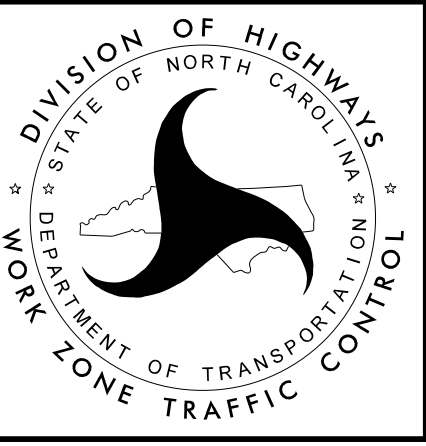


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APPROVED: _____ DATE: _____

SEAL



**PROJECT
AREA
OVERVIEW**

THIS PROJECT IS DIVIDED INTO TWO AREAS (SEE TMP-3) AS FOLLOWS:

AREA 1: U-5796: INTERCHANGE AT THE INTERSECTION OF US 117 (-L-) AND O'BERRY ROAD (-Y8-).

AREA 2: R-5719: INTERCHANGE AT THE INTERSECTION OF US 117 (-L-) AND COUNTRY CLUB ROAD (-Y1-).

NOTE: THE CONTRACTOR MAY WORK BOTH AREAS SIMULTANEOUSLY OR INDEPENDENTLY.

CONTRACTOR SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK IN AREA 1, PHASE I, STEP 1 THRU AREA 1, PHASE III, STEP 2 IN 365 CONSECUTIVE DAYS (SEE INTERMEDIATE CONTRACT TIME AND SPECIAL PROVISIONS).

AREA 1 PHASING

PHASE I

STEP 1: - INSTALL WORK ZONE ADVANCE WARNING SIGNS ALONG EXISTING US 117 (-L-) (SEE ROADWAY STANDARD DRAWINGS NO. 1101.01, SHEET 2 OF 3).

NOTE: ADJUST WARNING SIGNS, AS DIRECTED BY THE ENGINEER, SO AS NOT TO OVERLAP WORK ZONE SIGNAGE WHEN WORKING BOTH AREAS SIMULTANEOUSLY.

- USING ROADWAY STANDARD DRAWING NO. 1101.03, SHEETS 1 & 2 OF 9 AND SHEETS TMP-A1-4, TMP-A1-6, TMP-A1-7, TMP-2A, TMP-2B & TMP-2C, CLOSE O'BERRY ROAD (-Y8-) TO TRAFFIC.

NOTE: AS DIRECTED BY THE ENGINEER, INSTALL FOUR (4) CHANGEABLE MESSAGE SIGNS (CMS), ONE ON EACH APPROACH OF US 117 (-L-) & O'BERRY ROAD (-Y8-) TO THE WORK AREA, SEVEN (7) CALENDAR DAYS PRIOR TO CLOSING O'BERRY ROAD TO TRAFFIC.

SUGGESTED MESSAGE:

MESSAGE NO. 1	MESSAGE NO. 2
O'BERRY ROAD TO CLOSE	(DAY) (MONTH) (DATE)

NOTE: AS DIRECTED BY THE ENGINEER, ONE (1) CHANGEABLE MESSAGE SIGN MAY REMAIN INSTALLED ON EACH APPROACH OF US 117 (-L-) TO THE WORK AREA. THESE CHANGEABLE MESSAGE SIGNS ARE TO BE UTILIZED TO INFORM & ALERT THE TRAVELING PUBLIC TO TRAFFIC CONDITIONS AND MAY BE UTILIZED FOR TRAFFIC CONTROL OPERATIONS DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER.

STEP 2: - USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEETS 3, 5 & 6 OF 15:

-- CONSTRUCT PROPOSED WIDENING ALONG US 117 (-L-), UP TO THE EDGE & ELEVATION OF EXISTING AND INSTALL PORTABLE CONCRETE BARRIER (PCB) AS FOLLOWS (SEE ROADWAY PLANS AND SHEETS TMP-A1-3 & TMP-A1-4):

- NB US 117 (-L-):
- STA. 198+87 +/- -L- TO STA. 199+30 +/- -L- WIDENING LEFT SIDE
- STA. 198+95 +/- -L- TO STA. 199+30 +/- -L- WIDENING RIGHT SIDE
- STA. 194+80 +/- -L- TO STA. 199+30 +/- -L- PCB LEFT SIDE
- STA. 195+80 +/- -L- TO STA. 199+30 +/- -L- PCB RIGHT SIDE

NOTE: REMOVE TYPE III BARRICADES & DRUMS, BUT LEAVE ROAD CLOSURE SIGNS AND DETOUR SIGNS ALONG NB US 117 (-L-) FOR CLOSURE OF O'BERRY ROAD (-Y8-).

- SB US 117 (-L-):
- STA. 197+30 +/- -L- TO STA. 200+80 +/- -L- PCB LEFT SIDE
- STA. 197+30 +/- -L- TO STA. 201+80 +/- -L- PCB RIGHT SIDE

NOTE: REMOVE TYPE III BARRICADES & DRUMS, BUT LEAVE ROAD CLOSURE SIGNS AND DETOUR SIGNS ALONG SB US 117 (-L-) FOR CLOSURE OF O'BERRY ROAD (-Y8-).

- USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEETS 3, 5 & 6 OF 15:


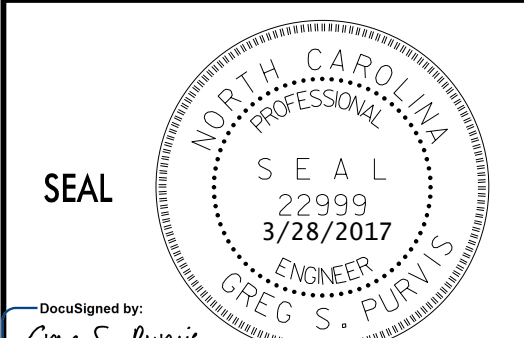
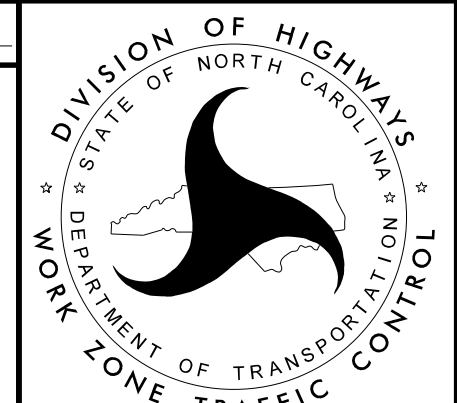
-- BEGIN CONSTRUCTION OF PROPOSED WIDENING OF US 117 (-L-) UP TO THE EDGE & ELEVATION OF EXISTING AS FOLLOWS (SEE ROADWAY PLANS AND SHEETS TMP-A1-2 TO TMP-A1-5).

- NB US 117 (-L-):
- STA. 175+47 +/- -L- TO STA. 193+22 +/- -L- LEFT SIDE
- STA. 199+30 +/- -L- TO STA. 219+92 +/- -L- LEFT SIDE
- STA. 175+47 +/- -L- TO STA. 195+80 +/- -L- RIGHT SIDE
- STA. 199+30 +/- -L- TO STA. 219+92 +/- -L- RIGHT SIDE

- SB US 117 (-L-):
- STA. 175+47 +/- -L- TO STA. 197+30 +/- -L- LEFT SIDE
- STA. 202+85 +/- -L- TO STA. 219+92 +/- -L- LEFT SIDE
- STA. 175+47 +/- -L- TO STA. 197+30 +/- -L- RIGHT SIDE
- STA. 204+40 +/- -L- TO STA. 219+92 +/- -L- RIGHT SIDE

- AWAY FROM TRAFFIC BEGIN CONSTRUCT PROPOSED O'BERRY ROAD (-Y8-) (NOT INCLUDING PROPOSED BRIDGE), PROPOSED RAMPS (-RAMP A-, -RAMP B-, -RAMP C- & -RAMP D-) UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE (SEE ROADWAY PLANS AND SHEETS TMP-A1-3 TO TMP-A1-7).

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PHASE II

STEP 1: - USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEETS 1, 2, 3, 5 & 6 OF 15:

- CONSTRUCT PROPOSED O'BERRY (-Y8-), INCLUDING PROPOSED BRIDGE, UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE FROM STA. 17+50 +/- -Y8- TO STA. 35+80 +/- -Y8- (SEE ROADWAY PLANS, STRUCTURE PLANS AND SHEETS TMP-A1-8 to TMP-A1-10).

NOTE: FOR GIRDER INSTALLATION UTILIZE ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 9 OF 9, TO CLOSE EITHER OR BOTH DIRECTIONS OF US 117 (-L-). SEE GENERAL NOTE "A" ON TMP-1B FOR TIME RESTRICTIONS.

NOTE: REMOVE PORTABLE CONCRETE BARRIER ALONG US 117 (-L-) WHEN NO LONGER REQUIRED FOR THE CONSTRUCTION OF PROPOSED BRIDGE AND REPLACE WITH DRUMS. REMOVE EXISTING PAVEMENT AND COMPLETE CONSTRUCTION OF PROPOSED WIDENING ALONG US 117 (-L-).

- UTILIZING PAVING/WEDGING OPERATIONS, CONSTRUCT PROPOSED O'BERRY ROAD (-Y8-), PROPOSED ST. MATTHEWS ROAD (-Y10-) AND PROPOSED DURHAM LAKE ROAD (-Y12-), UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AND PLACE TEMPORARY PAVEMENT MARKINGS/MARKERS AS FOLLOWS (SEE ROADWAY PLANS, FINAL PAVEMENT MARKING PLANS AND SHEETS TMP-A1-9 & TMP-A1-10):

STA. 13+00 +/- -Y8- TO STA. 17+50 +/- -Y8-
 STA. 35+80 +/- -Y8- TO STA. 39+35 +/- -Y8-
 STA. 10+12 +/- -Y10- TO STA. 13+50 +/- -Y10-
 STA. 10+12 +/- -Y12- TO STA. 12+00 +/- -Y12-

- COMPLETE CONSTRUCTION OF PROPOSED WIDENING OF US 117 (-L-) UP TO THE EDGE & ELEVATION OF EXISTING BEGUN IN AREA 1, PHASE I, STEP 2.
- COMPLETE CONSTRUCTION OF PROPOSED RAMPS (-RAMP A-, -RAMP B-, -RAMP C- & -RAMP D-) UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE BEGUN IN AREA 1, PHASE I, STEP 2.

PHASE III

STEP 1: - USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEETS 1, 2, 3, 5 & 6 OF 15, AS REQUIRED (SEE ROADWAY PLANS AND FINAL PAVEMENT MARKING PLANS):

- PAVE THE FINAL LAYER OF SURFACE COURSE (CONDUCT MILLING OPERATIONS AS REQUIRED), PLACE THE FINAL PAVEMENT MARKINGS AND INSTALL THE FINAL PAVEMENT MARKERS ON US 117 (-L-) FROM STA. 175+47 +/- -L- TO STA. 219+92 +/- -L-.

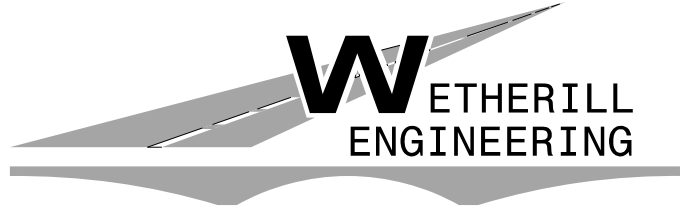
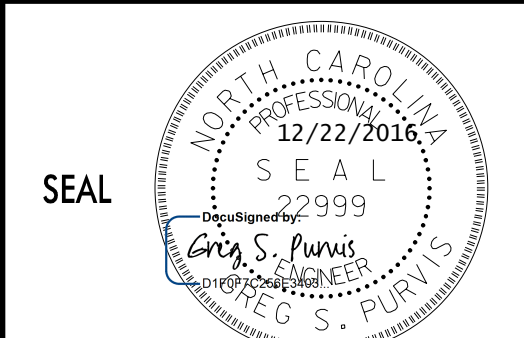

- KEEPING PROPOSED O'BERRY ROAD (-Y8-) AND PROPOSED RAMPS CLOSED, PAVE THE FINAL LAYER OF SURFACE COURSE, PLACE THE FINAL PAVEMENT MARKINGS AND INSTALL THE FINAL PAVEMENT MARKERS FROM STA. 17+50 +/- -Y8- TO STA. 35+80 +/- -Y8- AND ON ALL PROPOSED RAMPS (-RAMP A-, -RAMP B-, -RAMP C- & -RAMP D-).

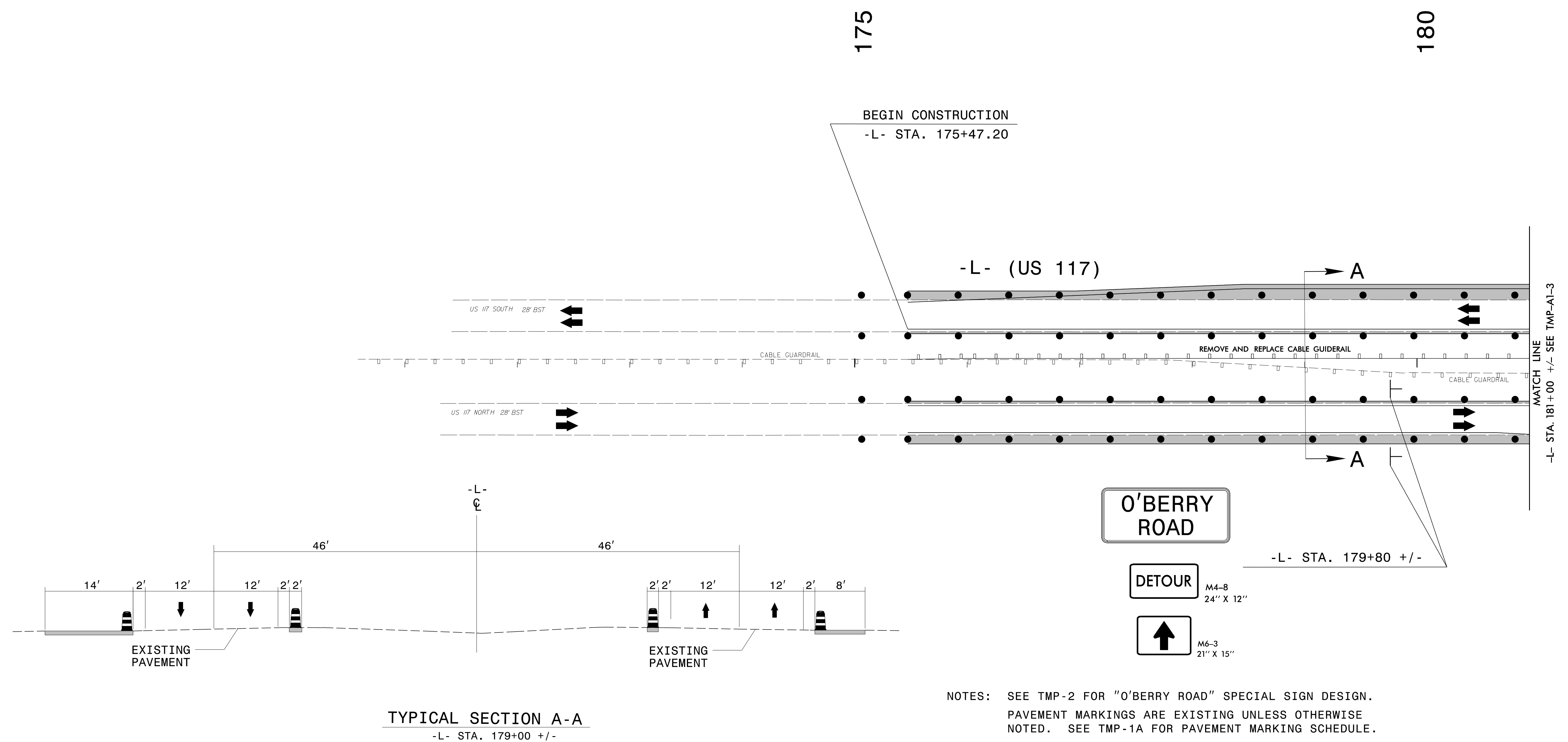
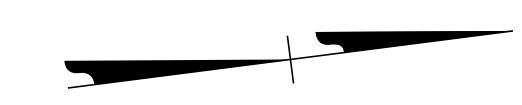
- CONSTRUCT PROPOSED CONCRETE MONOLITHIC ISLAND, PAVE THE FINAL LAYER OF SURFACE COURSE, PLACE THE FINAL PAVEMENT MARKINGS AND INSTALL THE FINAL PAVEMENT MARKERS ON PROPOSED O'BERRY ROAD (-Y8-), PROPOSED ST. MATTHEWS ROAD (-Y10-) AND PROPOSED DURHAM LAKE ROAD (-Y12-) AS FOLLOWS:

STA. 13+00 +/- -Y8- TO STA. 17+50 +/- -Y8-
 STA. 35+80 +/- -Y8- TO STA. 39+35 +/- -Y8-
 STA. 10+12 +/- -Y10- TO STA. 13+50 +/- -Y10-
 STA. 10+12 +/- -Y12- TO STA. 12+00 +/- -Y12-

STEP 2: - OPEN ENTIRE PROJECT TO FINAL TRAFFIC PATTERN AND REMOVE ALL TRAFFIC CONTROL DEVICES FROM THE PROJECT.

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	AREA 1 PHASING		



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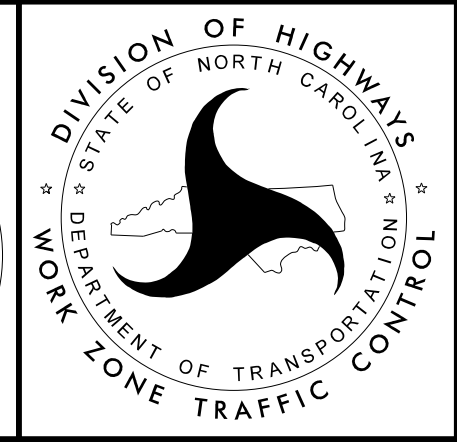
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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

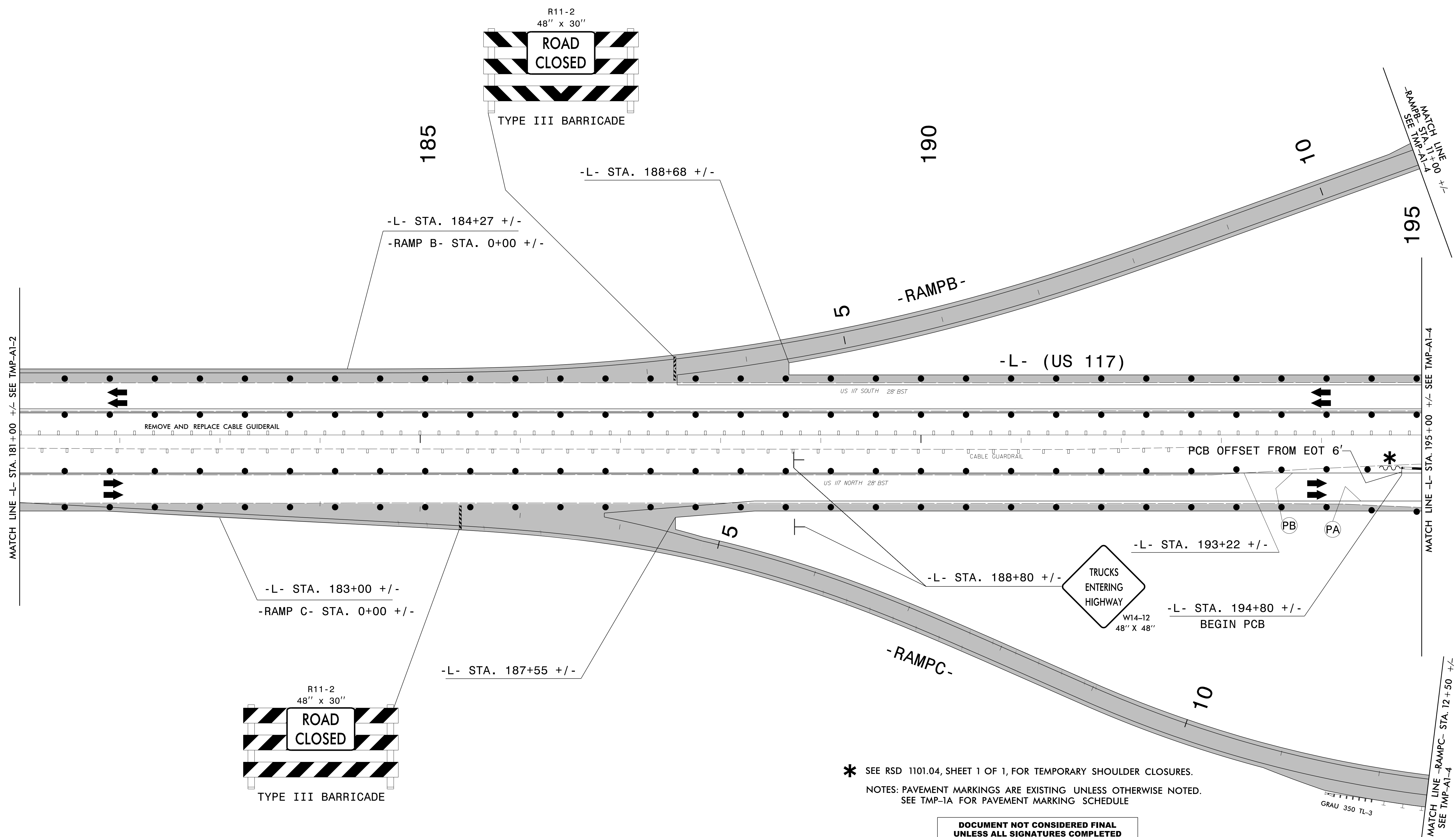
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AREA 1 - PHASE I



* SEE RSD 1101.04, SHEET 1 OF 1, FOR TEMPORARY SHOULDER CLOSURES.
 NOTES: PAVEMENT MARKINGS ARE EXISTING UNLESS OTHERWISE NOTED.
 SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

12/22/2016
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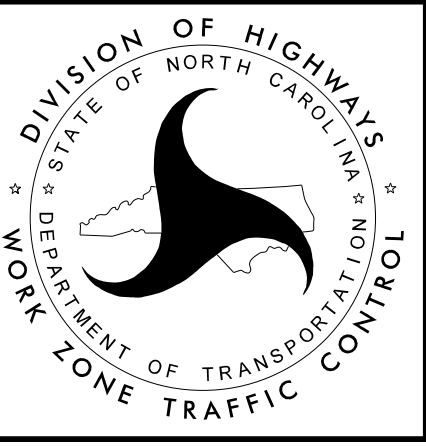
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 ENGINEERING

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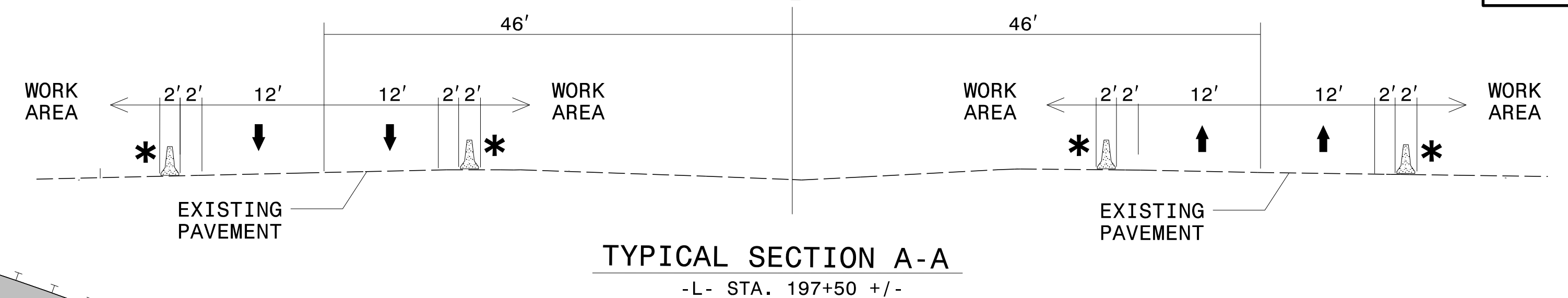
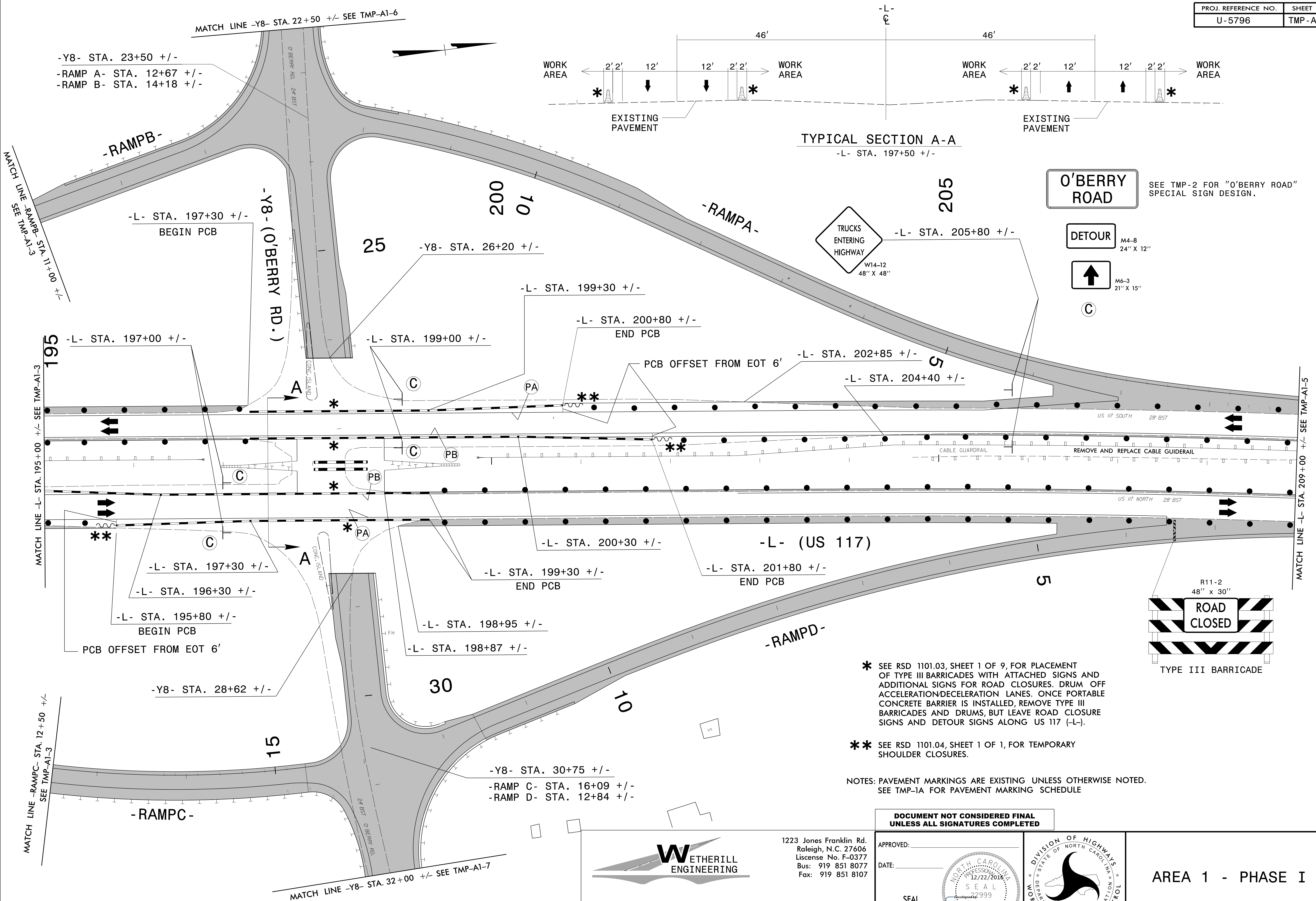
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AREA 1 - PHASE I

PROJ. REFERENCE NO.	SHEET NO.
U-5796	TMP-A1-4

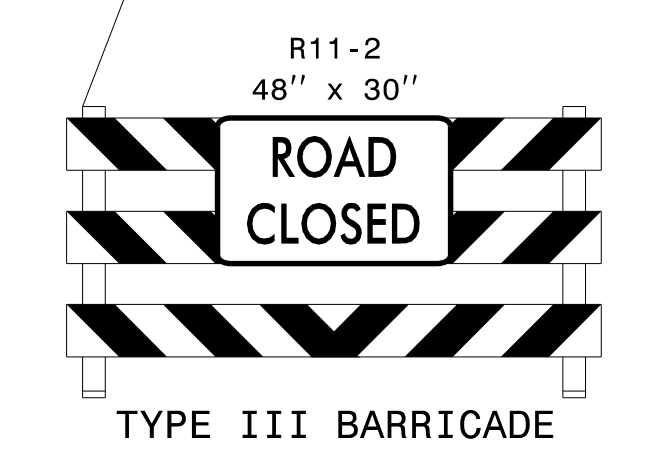


O'BERRY ROAD
SEE TMP-2 FOR "O'BERRY ROAD" SPECIAL SIGN DESIGN.

DETOUR
M4-8
24" X 12"

↑
M6-3
21" X 15"

TRUCKS ENTERING HIGHWAY
W14-12
48" X 48"



* SEE RSD 1101.03, SHEET 1 OF 9, FOR PLACEMENT OF TYPE III BARRICADES WITH ATTACHED SIGNS AND ADDITIONAL SIGNS FOR ROAD CLOSURES. DRUM OFF ACCELERATION/DECELERATION LANES. ONCE PORTABLE CONCRETE BARRIER IS INSTALLED, REMOVE TYPE III BARRICADES AND DRUMS, BUT LEAVE ROAD CLOSURE SIGNS AND DETOUR SIGNS ALONG US 117 (-L-).

** SEE RSD 1101.04, SHEET 1 OF 1, FOR TEMPORARY SHOULDER CLOSURES.

NOTES: PAVEMENT MARKINGS ARE EXISTING UNLESS OTHERWISE NOTED. SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

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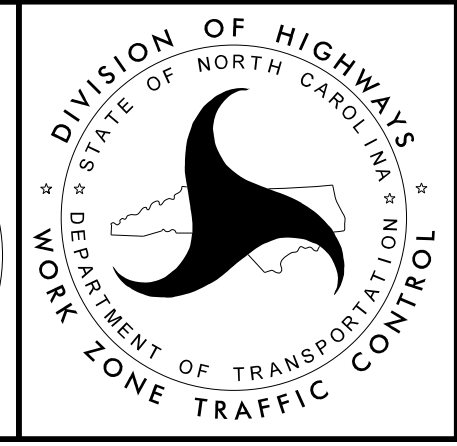
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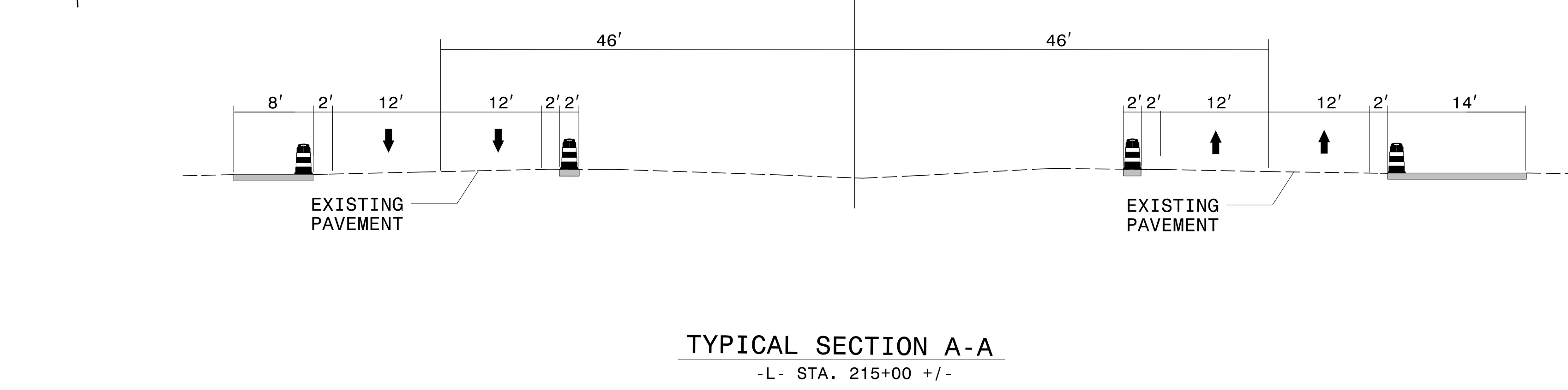
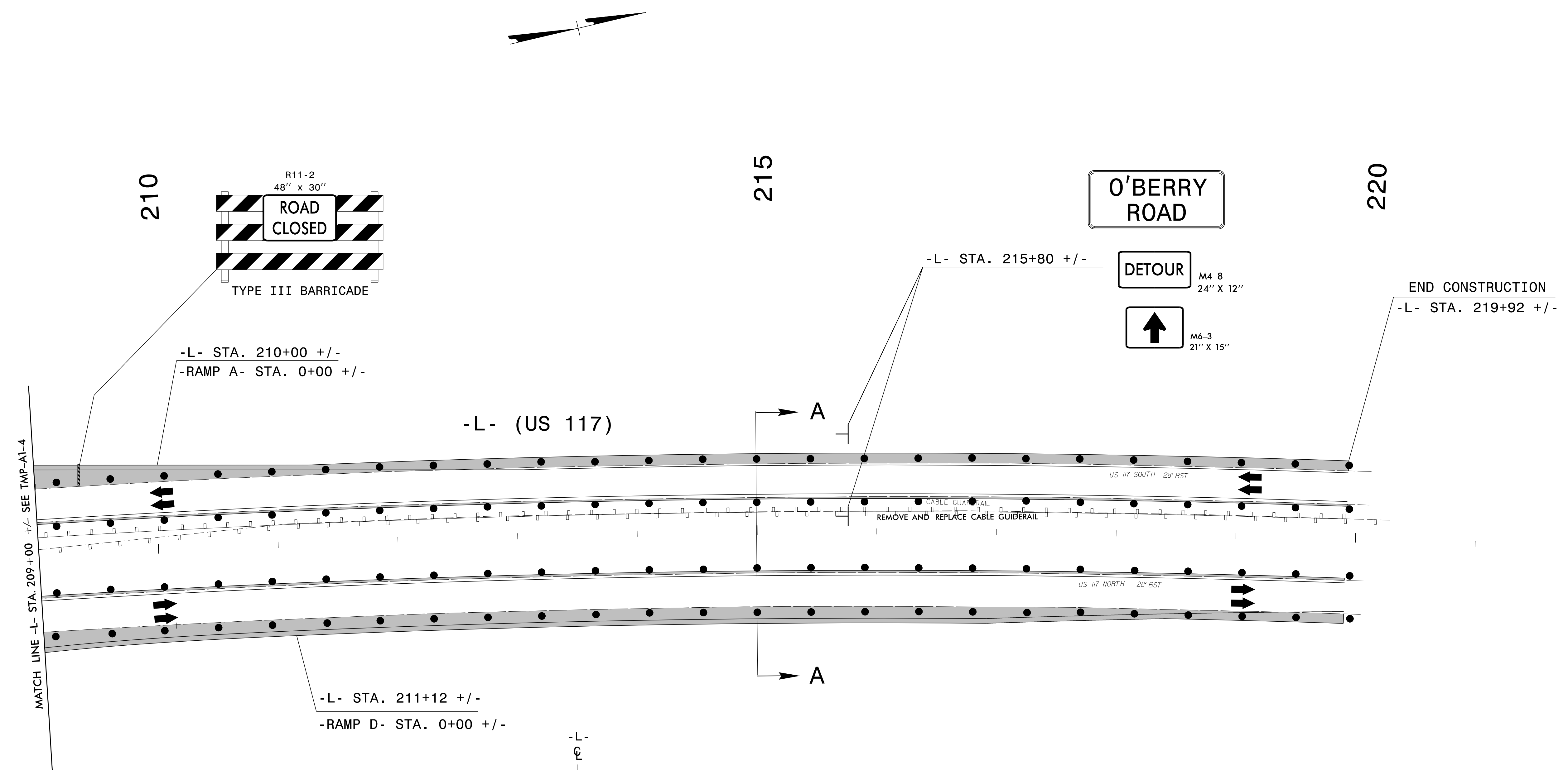
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AREA 1 - PHASE I

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NOTES: SEE TMP-2 FOR "O'BERRY ROAD" SPECIAL SIGN DESIGN.
PAVEMENT MARKINGS ARE EXISTING UNLESS OTHERWISE NOTED. SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE.

TYPICAL SECTION A-A
-L- STA. 215+00 +/-

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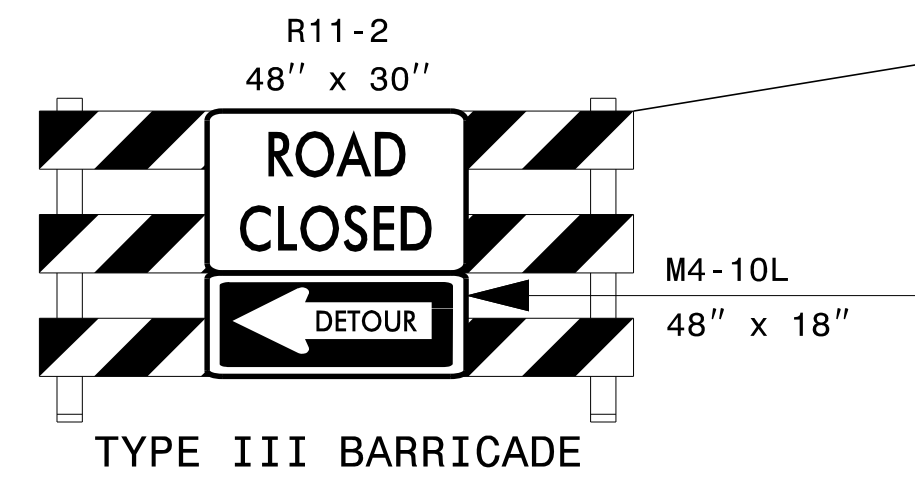
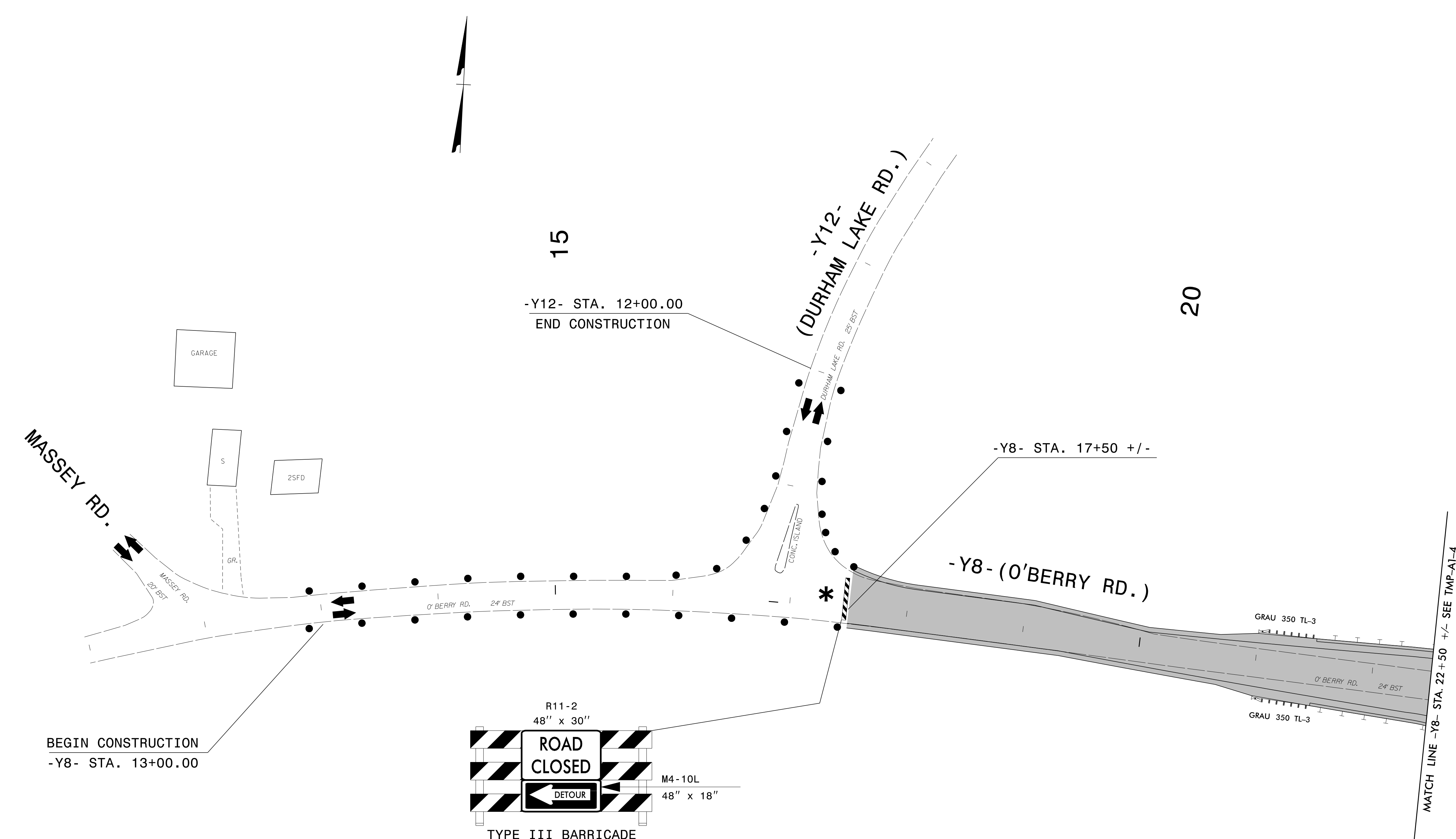
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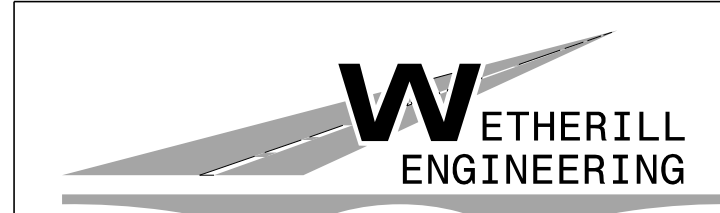
AREA 1 - PHASE I



* SEE RSD 1101.03, SHEET 2 OF 9, FOR TYPE III BARRICADE LOCATIONS WITH SIGNS ATTACHED AND ADDITIONAL SIGNS FOR ROAD CLOSURE.

NOTES: PAVEMENT MARKINGS ARE EXISTING UNLESS OTHERWISE NOTED.
SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

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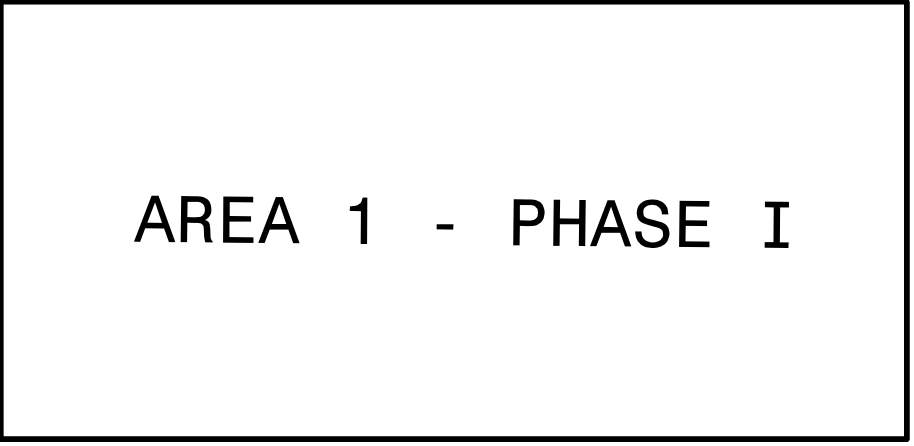
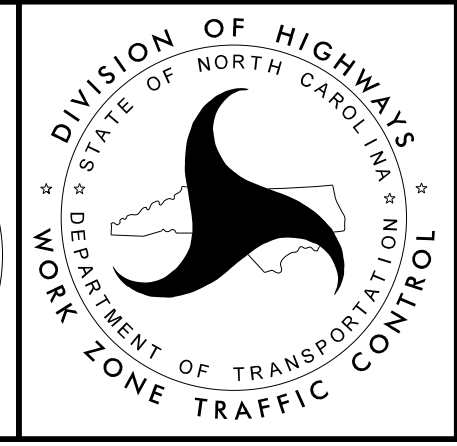


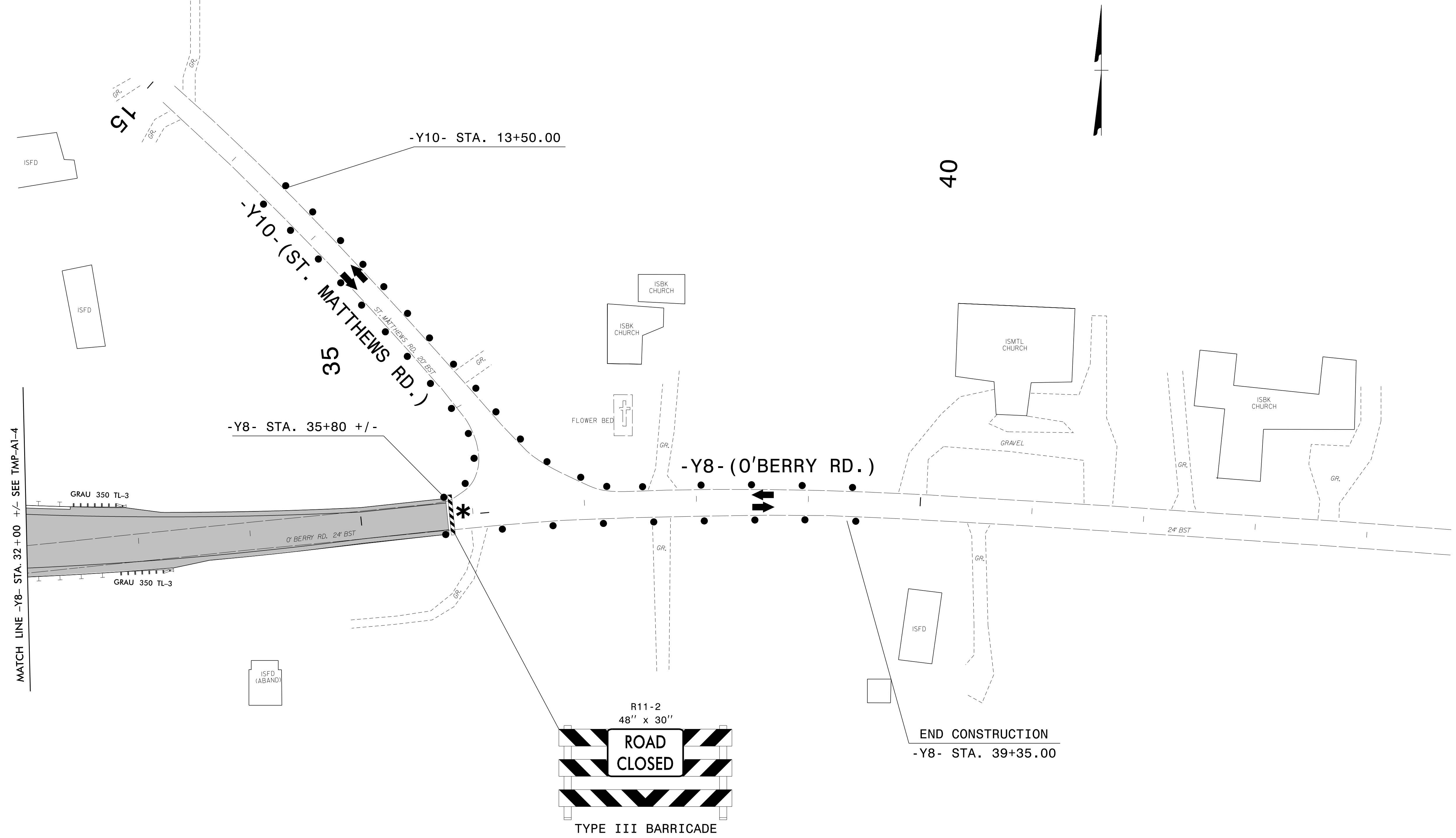
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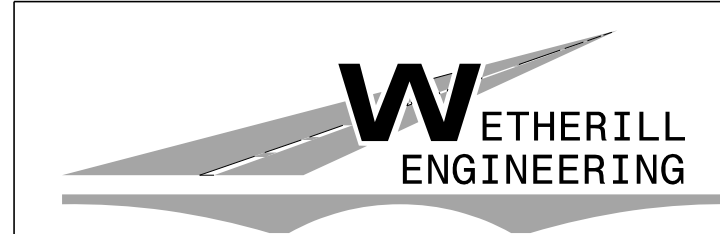




* SEE RSD 1101.03, SHEET 1 OF 9, FOR TYPE III BARRICADE LOCATIONS WITH SIGNS ATTACHED AND ADDITIONAL SIGNS FOR ROAD CLOSURE.

NOTES: PAVEMENT MARKINGS ARE EXISTING UNLESS OTHERWISE NOTED.
SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

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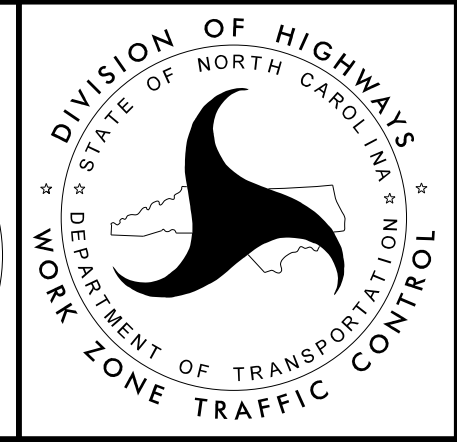
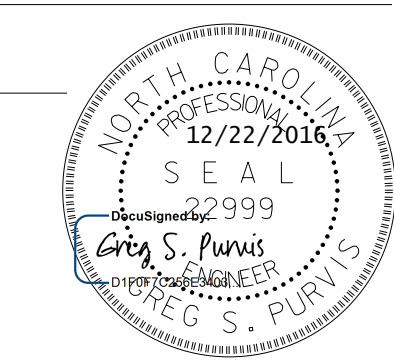


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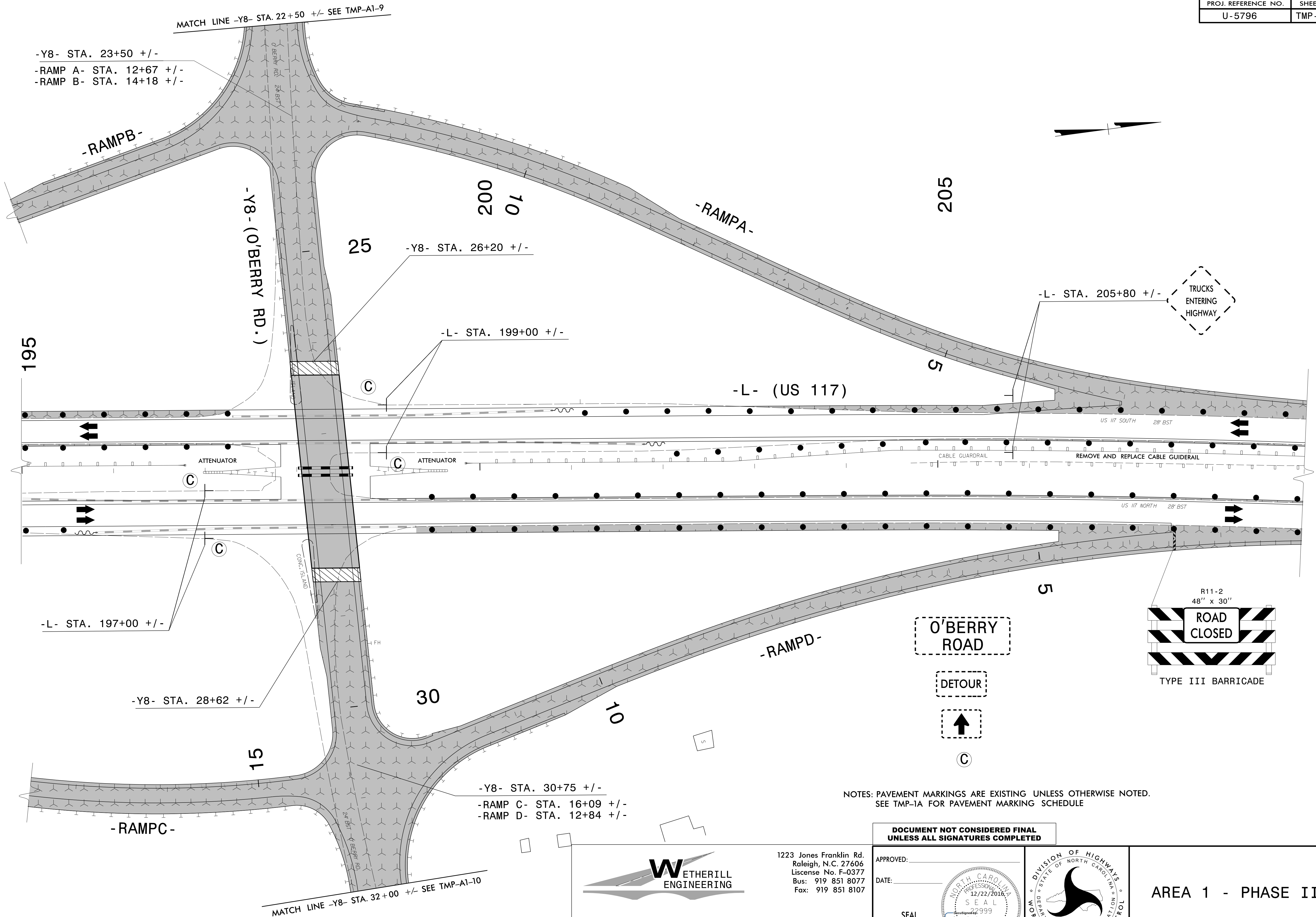
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AREA 1 - PHASE I



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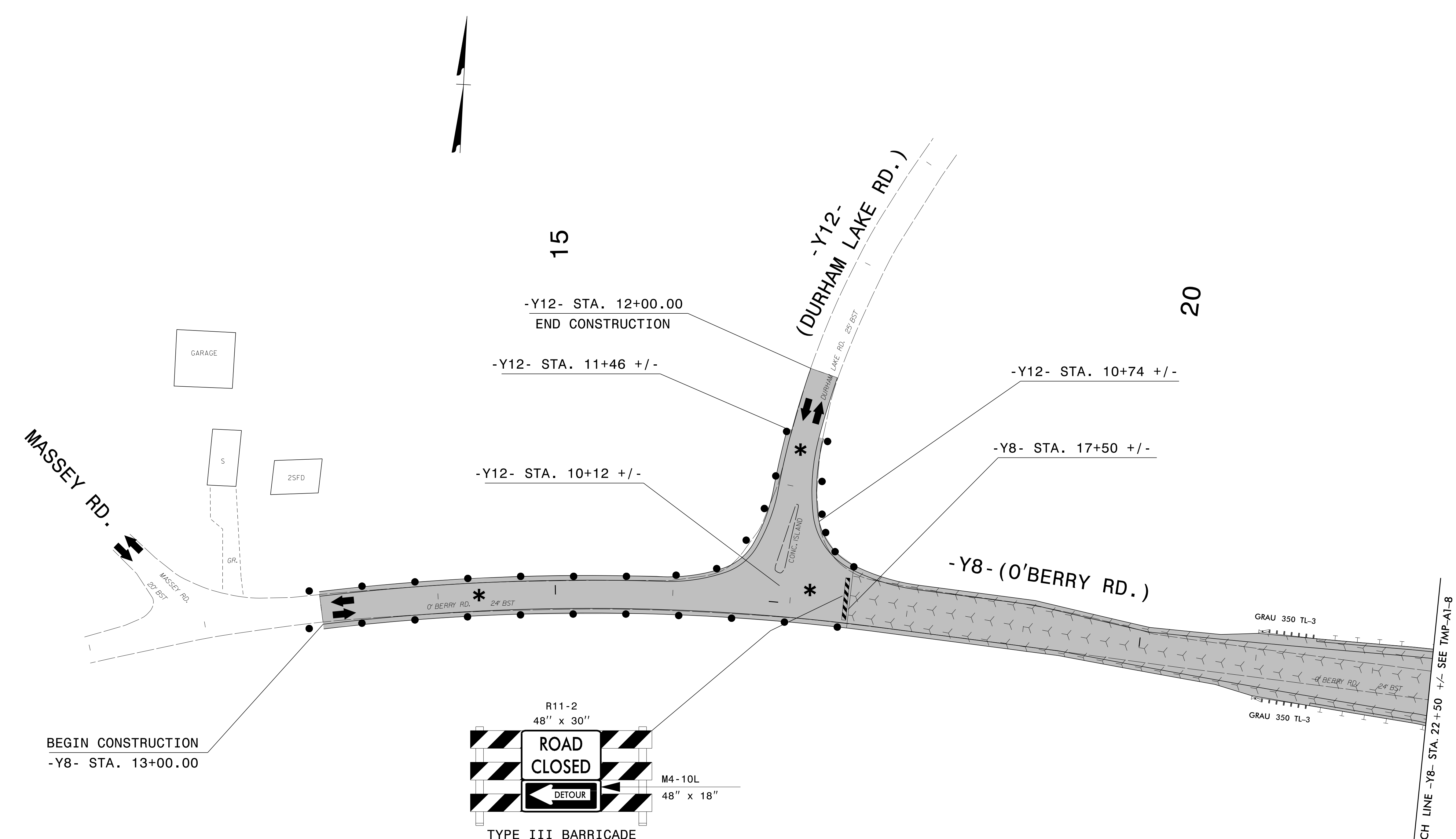
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AREA 1 - PHASE II



* FOR TEMPORARY PAVEMENT MARKINGS
SEE FINAL PAVEMENT MARKING PLANS.

NOTES: PAVEMENT MARKINGS ARE EXISTING UNLESS OTHERWISE NOTED.
SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

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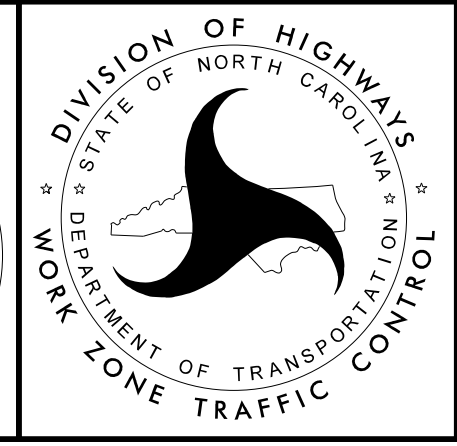
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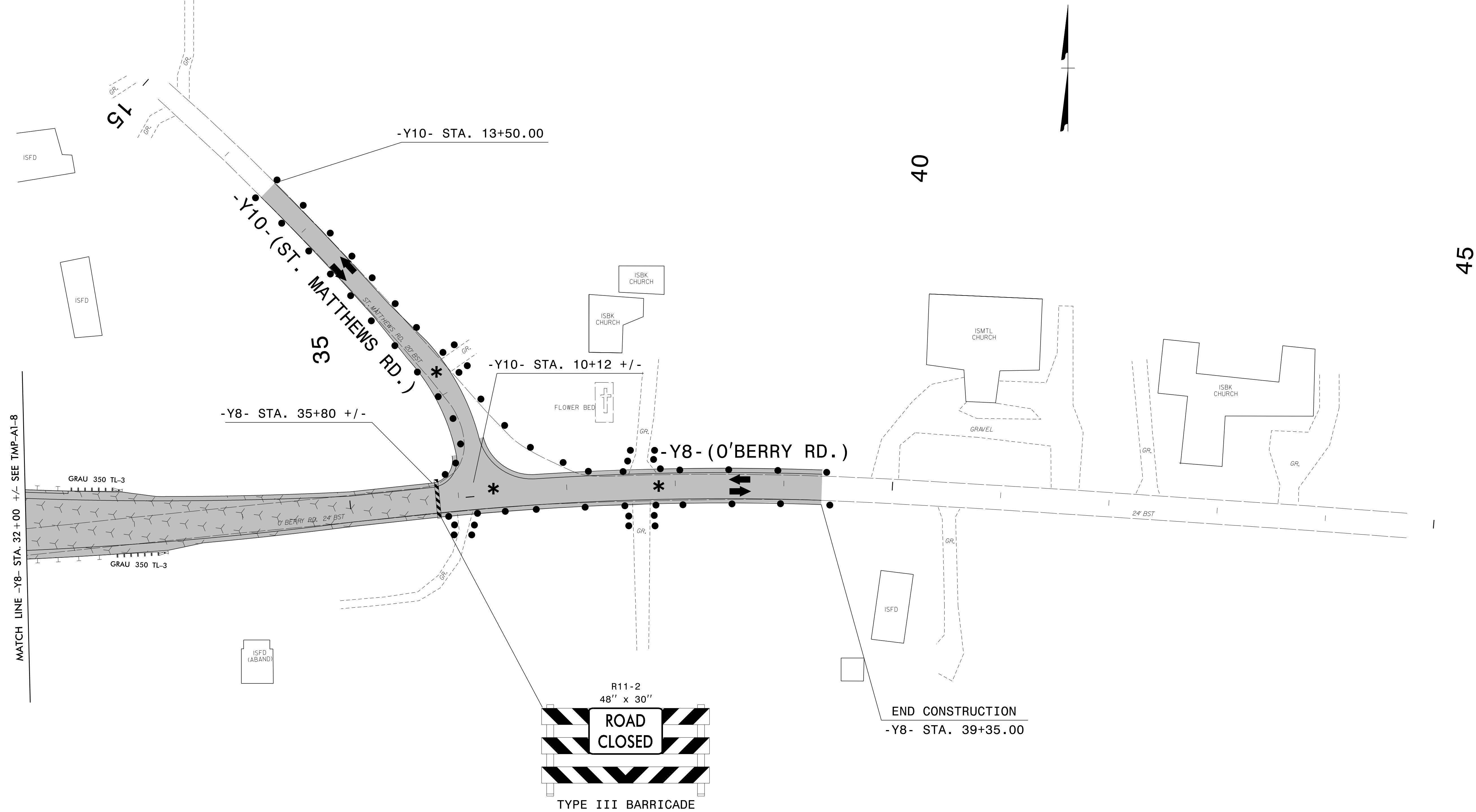
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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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AREA 1 - PHASE II



* FOR TEMPORARY PAVEMENT MARKINGS
SEE FINAL PAVEMENT MARKING PLANS.

NOTES: PAVEMENT MARKINGS ARE EXISTING UNLESS OTHERWISE NOTED.
SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

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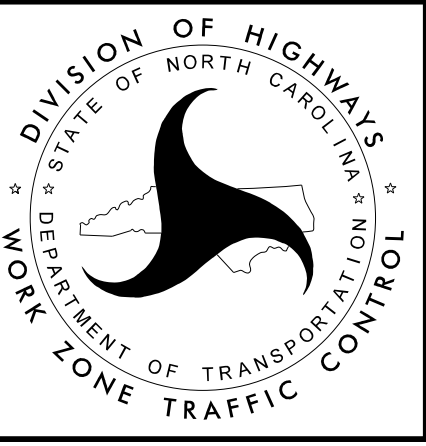
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AREA 1 - PHASE II

THIS PROJECT IS DIVIDED INTO TWO AREAS (SEE TMP-3) AS FOLLOWS:

AREA 1: U-5796: INTERCHANGE AT THE INTERSECTION OF US 117 (-L-) AND O'BERRY ROAD (-Y8-).

AREA 2: R-5719: INTERCHANGE AT THE INTERSECTION OF US 117 (-L-) AND COUNTRY CLUB ROAD (-Y1-).

NOTE: THE CONTRACTOR MAY WORK BOTH AREAS SIMULTANEOUSLY OR INDEPENDENTLY.

CONTRACTOR SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE THE WORK IN AREA 2, PHASE I, STEP 1 THRU AREA 2, PHASE IV, STEP 2 IN 545 CONSECUTIVE DAYS (SEE INTERMEDIATE CONTRACT TIME AND SPECIAL PROVISIONS).

AREA 2 PHASING

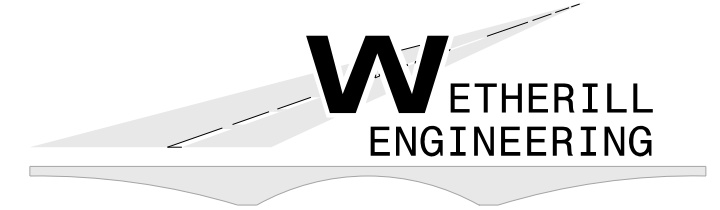
PHASE I

- STEP 1: - INSTALL WORK ZONE ADVANCE WARNING SIGNS ALONG EXISTING US 117 (-L-), COUNTRY CLUB ROAD (-Y1-), RAMBLEWOOD DRIVE AND US 117A (SEE ROADWAY STANDARD DRAWINGS NO. 1101.01, SHEET 2 OF 3).
- NOTE: ADJUST WARNING SIGNS, AS DIRECTED BY THE ENGINEER, SO AS NOT TO OVERLAP WORK ZONE SIGNAGE WHEN WORKING BOTH AREAS SIMULTANEOUSLY.
- AS DIRECTED BY THE ENGINEER, INSTALL ONE (1) CHANGEABLE MESSAGE SIGN ON EACH APPROACH OF US 117 (-L-) TO THE WORK AREA. THESE CHANGEABLE MESSAGE SIGNS ARE TO BE UTILIZED TO INFORM & ALERT THE TRAVELING PUBLIC TO TRAFFIC CONDITIONS AND MAY BE UTILIZED FOR TRAFFIC CONTROL OPERATIONS DURING CONSTRUCTION.
- STEP 2: - USING ROADWAY STANDARD DRAWINGS NO. 1101.02, SHEETS 1, 2, 3, 5 & 6 OF 15:
- NB US 117 (-L-) (SEE CONSTRUCTION PLANS AND SHEETS TMP-A2-2 TO TMP-A2-7):
 - A. PLACE TEMPORARY PAVEMENT MARKINGS/MARKERS FOR A TEMPORARY ONE-LANE, ONE-WAY TRAFFIC PATTERN ON THE MEDIAN LANE OF NB US 117 (-L-) AND SHIFT TRAFFIC.
 - NOTE: MAINTAIN INTERSECTION ACCESS WITH COUNTRY CLUB ROAD (-Y1-)
 - B. INSTALL PORTABLE CONCRETE BARRIER ALONG THE EAST SIDE OF THE MEDIAN LANE OF NB US 117 (-L-).

- C. UTILIZING TEMPORARY 2:1 SLOPES, AS DIRECTED BY THE ENGINEER, CONSTRUCT PROPOSED OUTSIDE WIDENING OF NB US 117 (-L-), PROPOSED CULVERT EXTENSION OF HEADWALLS & WING WALLS (BEHIND EXISTING GUARDRAIL), PROPOSED OFF-RAMP "C" (-RAMP C-) AND PROPOSED ON-RAMP "D" (-RAMP D-) UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- SB US 117 (-L-) (SEE CONSTRUCTION PLANS AND SHEETS TMP-A2-2 TO TMP-A2-7):
 - A. CONSTRUCT TEMPORARY PAVEMENT ALONG THE MEDIAN LANE OF SB US 117 (-L-), UP TO THE EDGE & ELEVATION OF THE EXISTING.
 - B. PLACE TEMPORARY PAVEMENT MARKINGS/MARKERS FOR A TEMPORARY ONE-LANE, ONE-WAY TRAFFIC PATTERN ON THE MEDIAN LANE/TEMPORARY PAVEMENT OF SB US 117 (-L-) AND SHIFT TRAFFIC.
 - NOTE: MAINTAIN INTERSECTION ACCESS WITH COUNTRY CLUB ROAD (-Y1-)
 - C. INSTALL PORTABLE CONCRETE BARRIER ALONG THE WEST SIDE OF THE MEDIAN LANE OF SB US 117 (-L-).
 - D. UTILIZING TEMPORARY 2:1 SLOPES, AS DIRECTED BY THE ENGINEER, CONSTRUCT PROPOSED OUTSIDE WIDENING OF SB US 117 (-L-), PROPOSED CULVERT EXTENSION OF HEADWALLS & WING WALLS (BEHIND EXISTING GUARDRAIL), PROPOSED OFF-RAMP "A" (-RAMP A-) AND PROPOSED ON-RAMP "B" (-RAMP B-), UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- COUNTRY CLUB ROAD (-Y1-) (SEE CONSTRUCTION PLANS AND SHEET TMP-A2-4):
 - REMOVE EXISTING CONCRETE ISLANDS ON COUNTRY CLUB ROAD (-Y1-) AT THE INTERSECTIONS WITH US 117 (-L-) AND REPAIR PAVEMENT AS REQUIRED TO HANDLE TRAFFIC.

REV. NO.	DATE	DESCRIPTION	DWG. BY	DES'D BY	REV'D BY
1	6/7/17	REVISED DURATION OF ICT	SLK	SLK	JWG

6/7/2017 10:20:51 AM R-5719-TrafficControl\TCPVr5719_TC_TCP_PSH_A2-1.dgn User: JGilsTrap



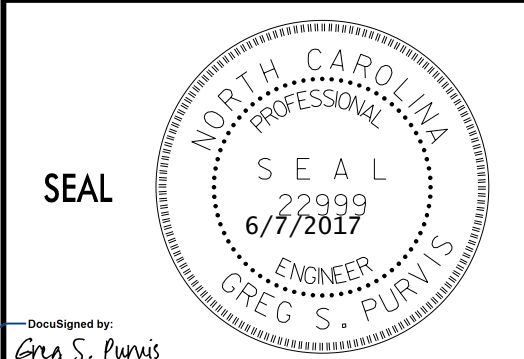
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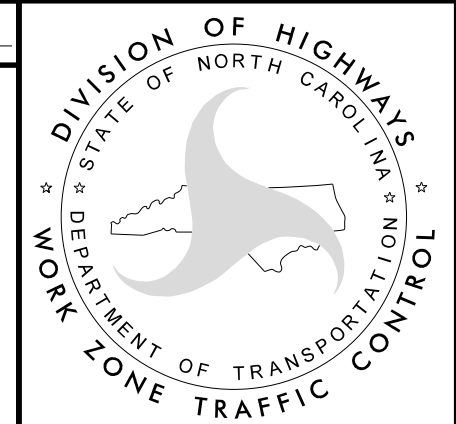
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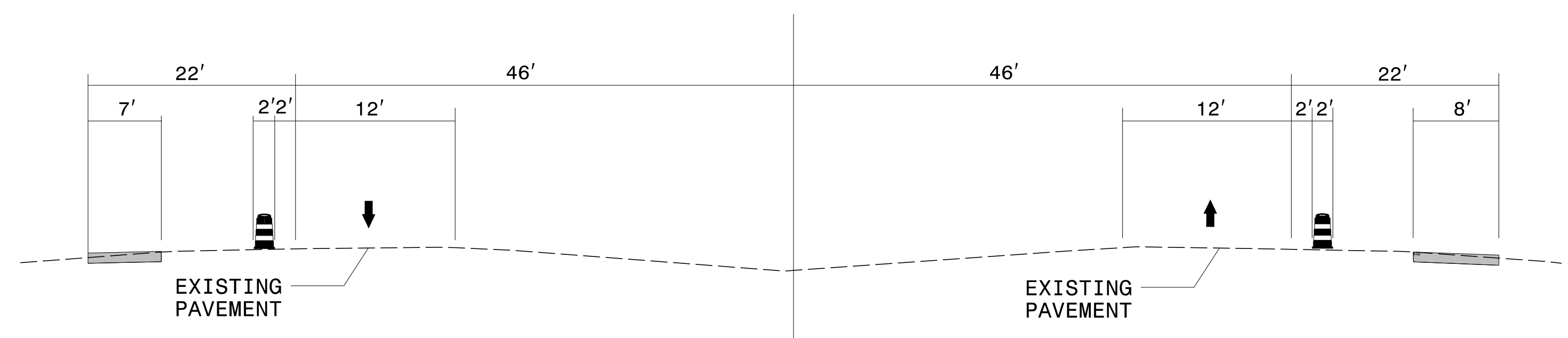
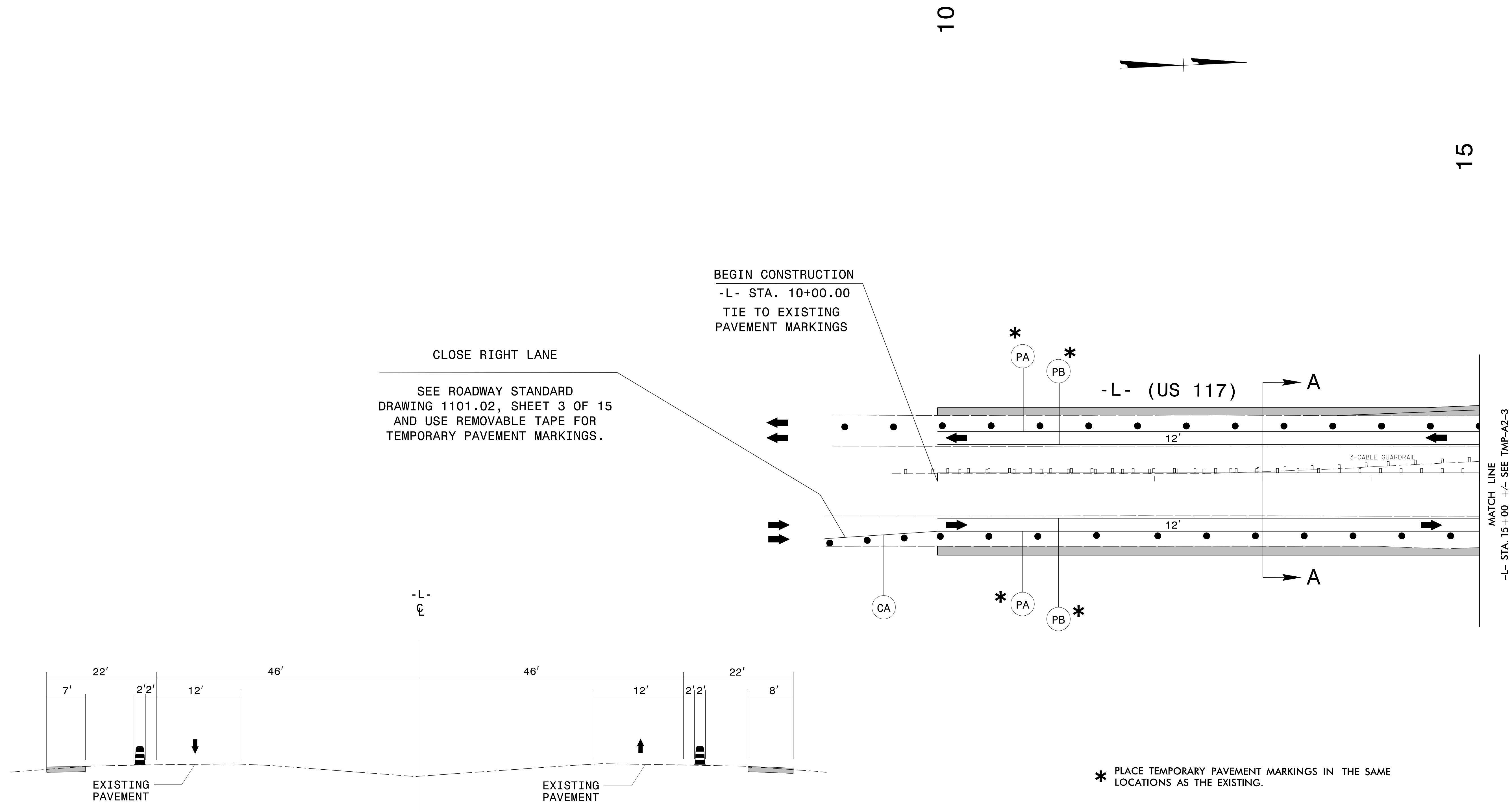
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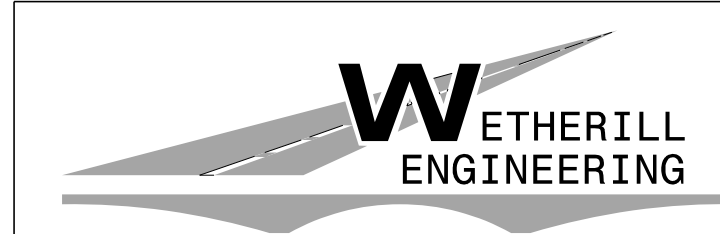
AREA 2 PHASING



* PLACE TEMPORARY PAVEMENT MARKINGS IN THE SAME LOCATIONS AS THE EXISTING.

NOTES: PAVEMENT MARKINGS SHOW ARE EXISTING UNLESS OTHERWISE NOTED.
SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

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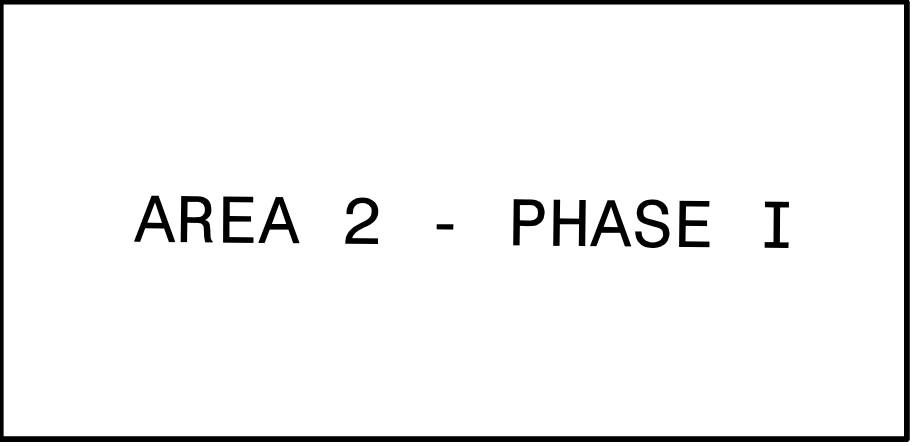
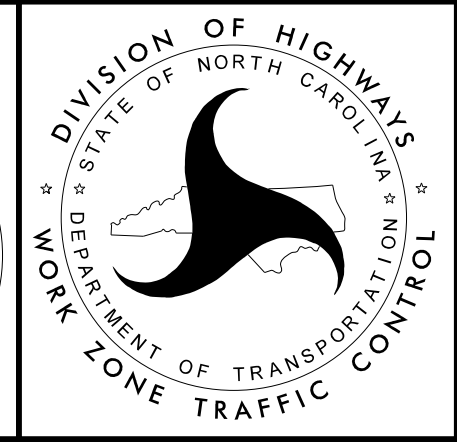


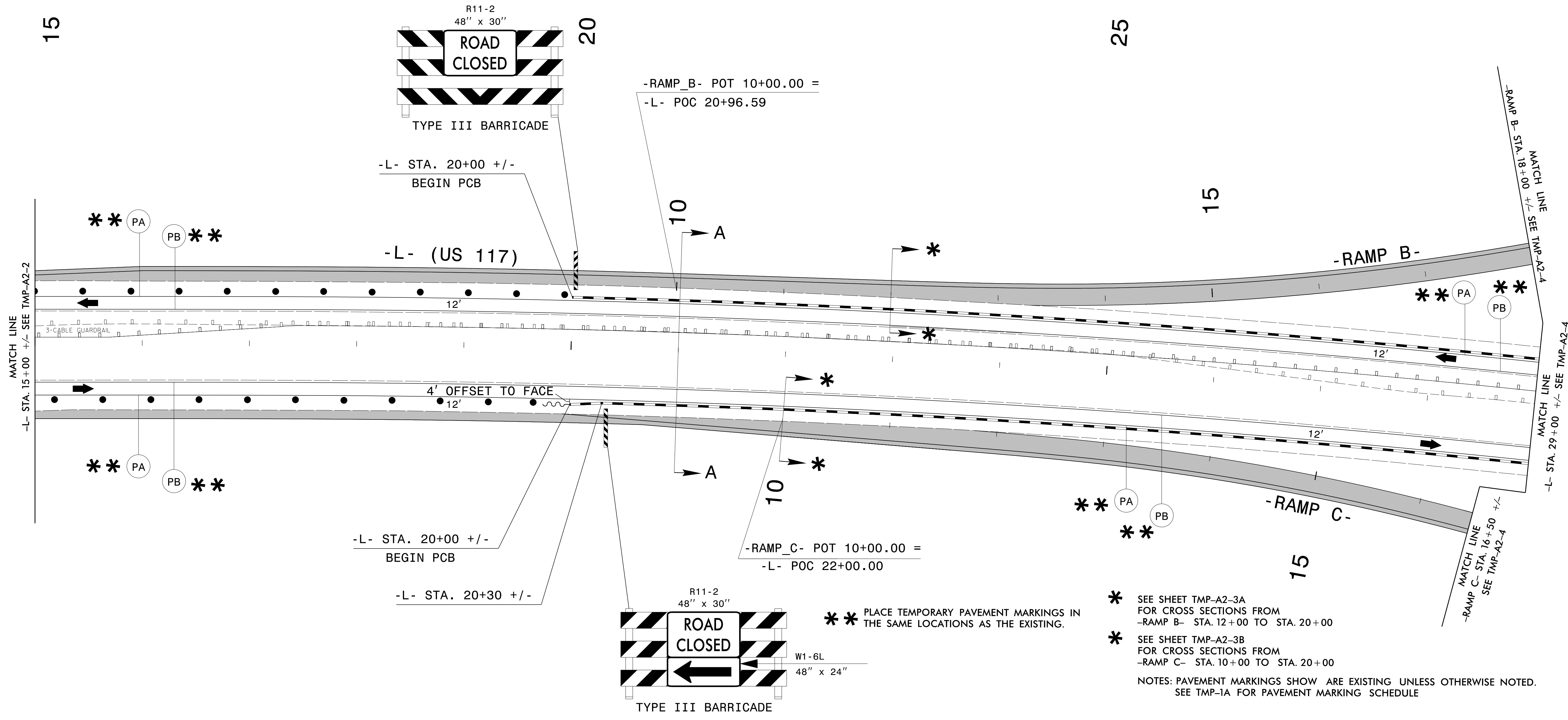
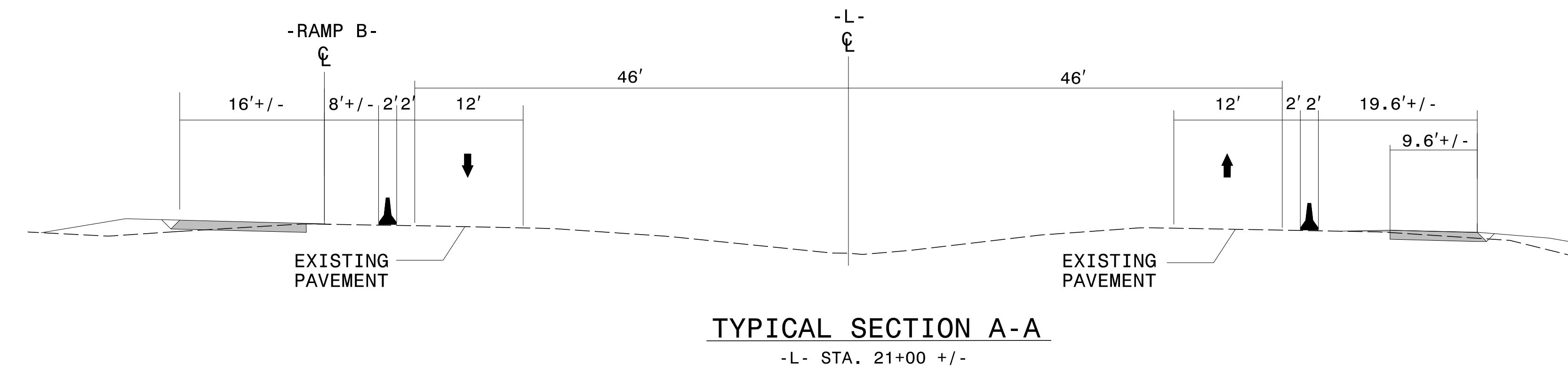
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** PLACE TEMPORARY PAVEMENT MARKINGS IN THE SAME LOCATIONS AS THE EXISTING.

- * SEE SHEET TMP-A2-3A FOR CROSS SECTIONS FROM -RAMP B- STA. 12+00 TO STA. 20+00
- * SEE SHEET TMP-A2-3B FOR CROSS SECTIONS FROM -RAMP C- STA. 10+00 TO STA. 20+00

NOTES: PAVEMENT MARKINGS SHOW ARE EXISTING UNLESS OTHERWISE NOTED. SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

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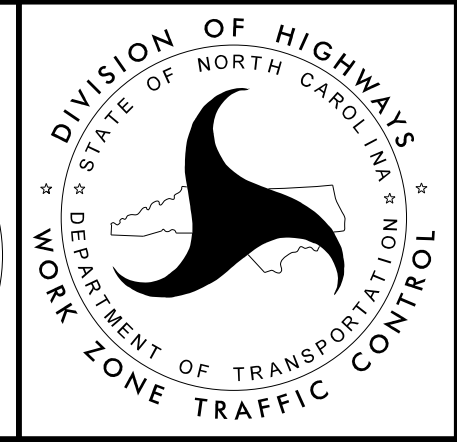
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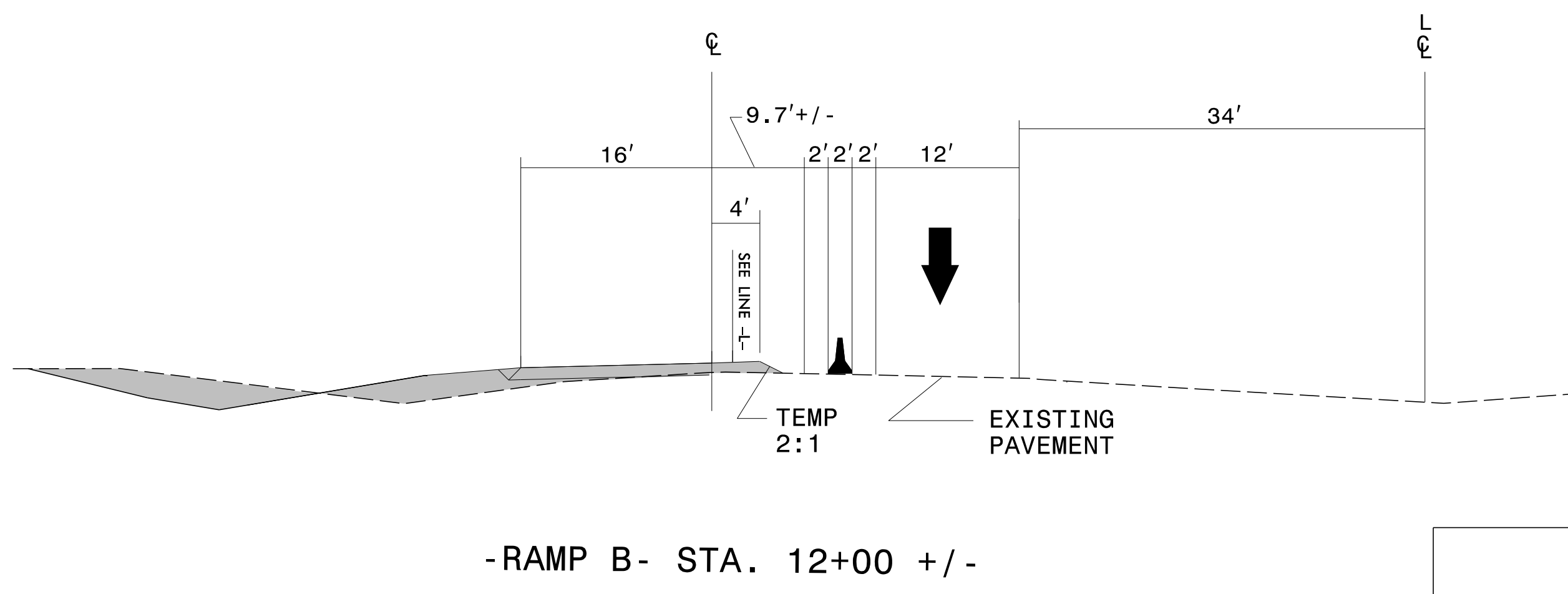
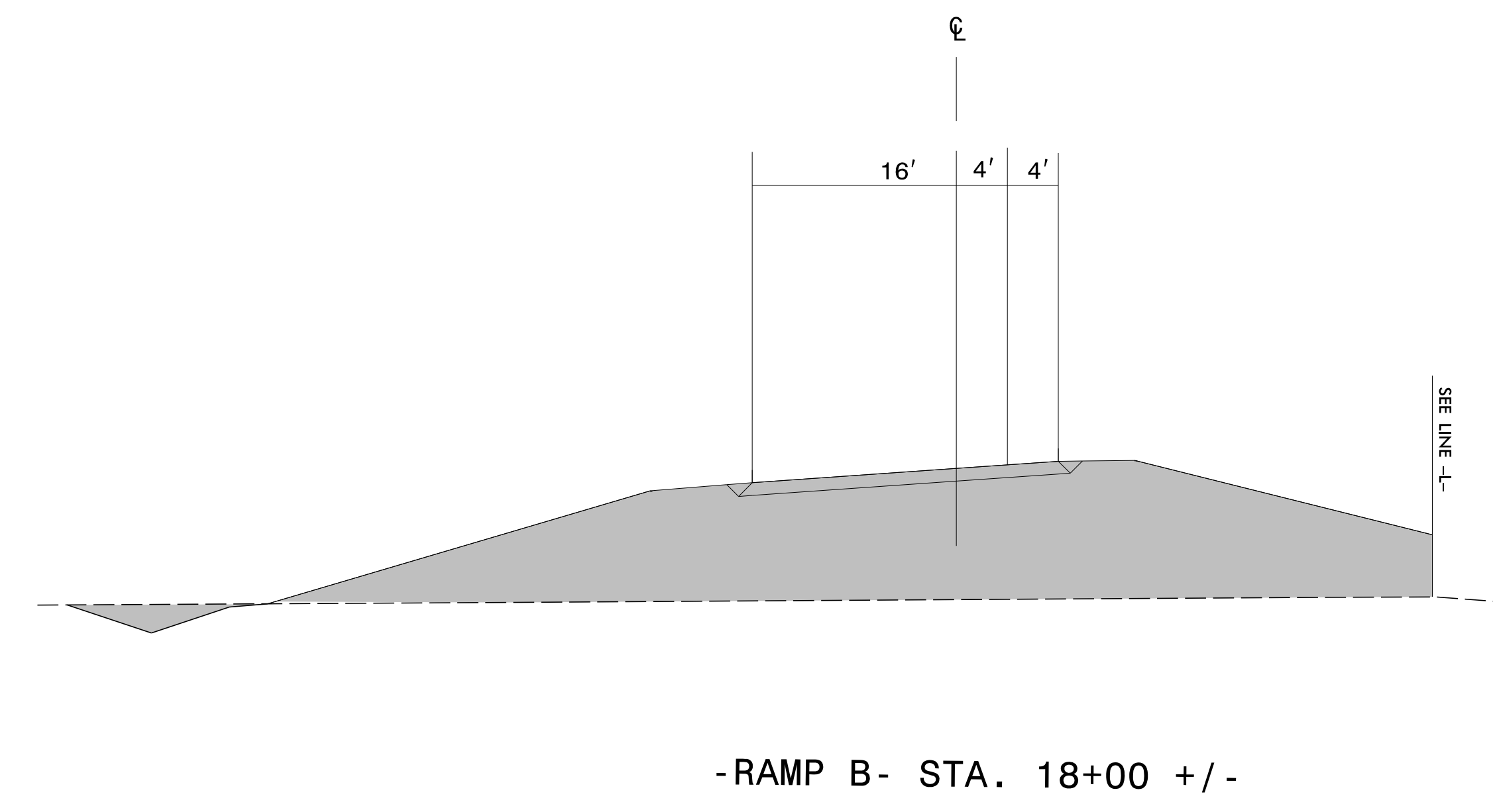
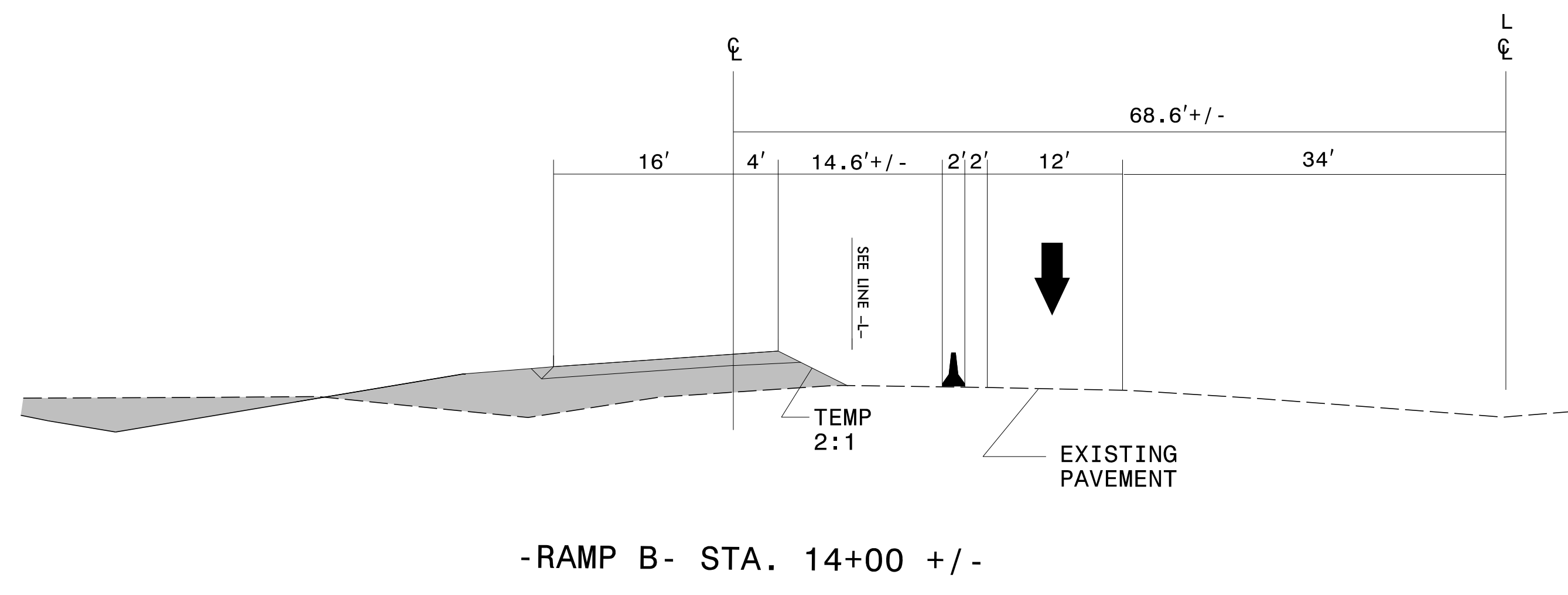
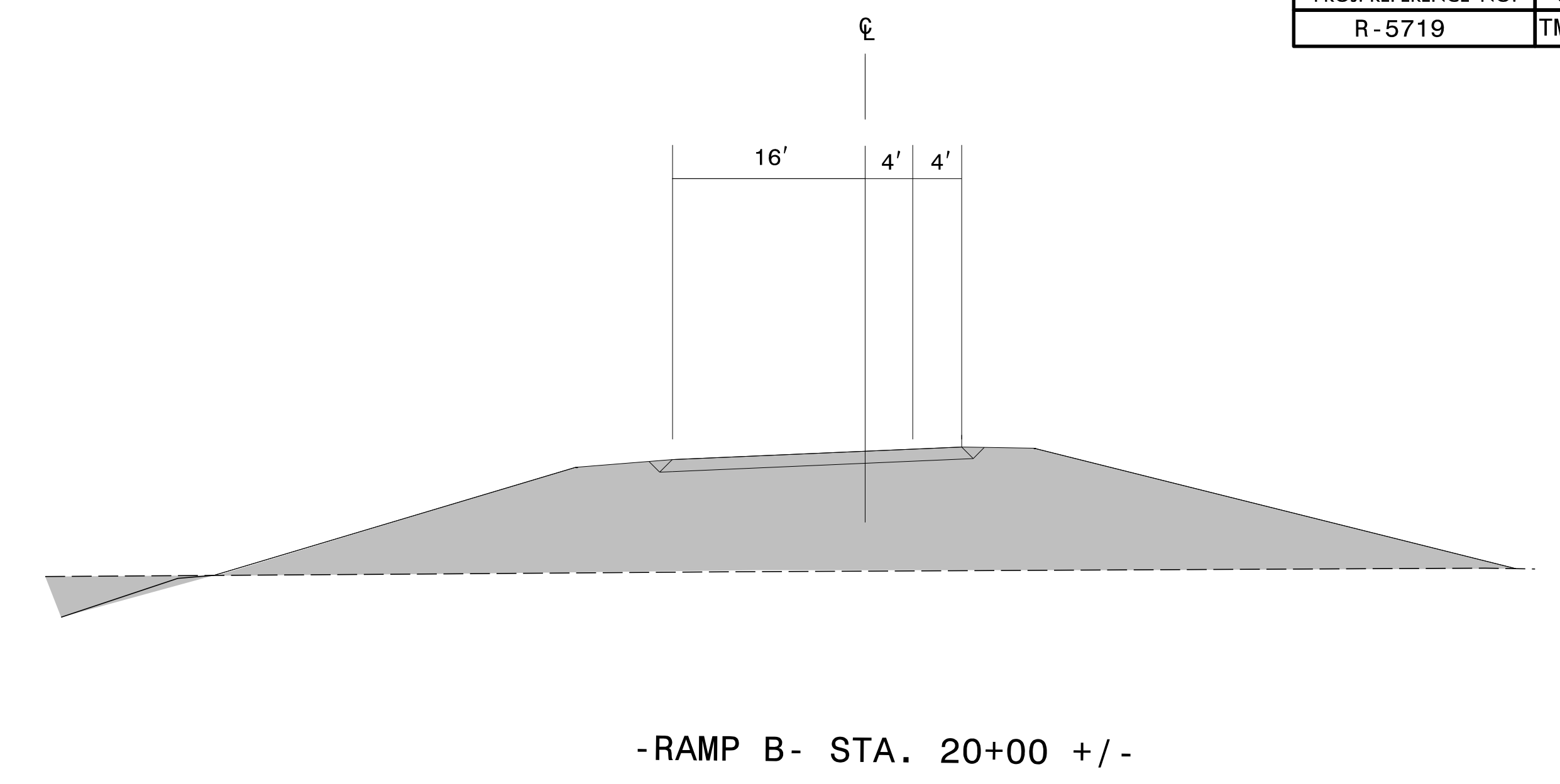
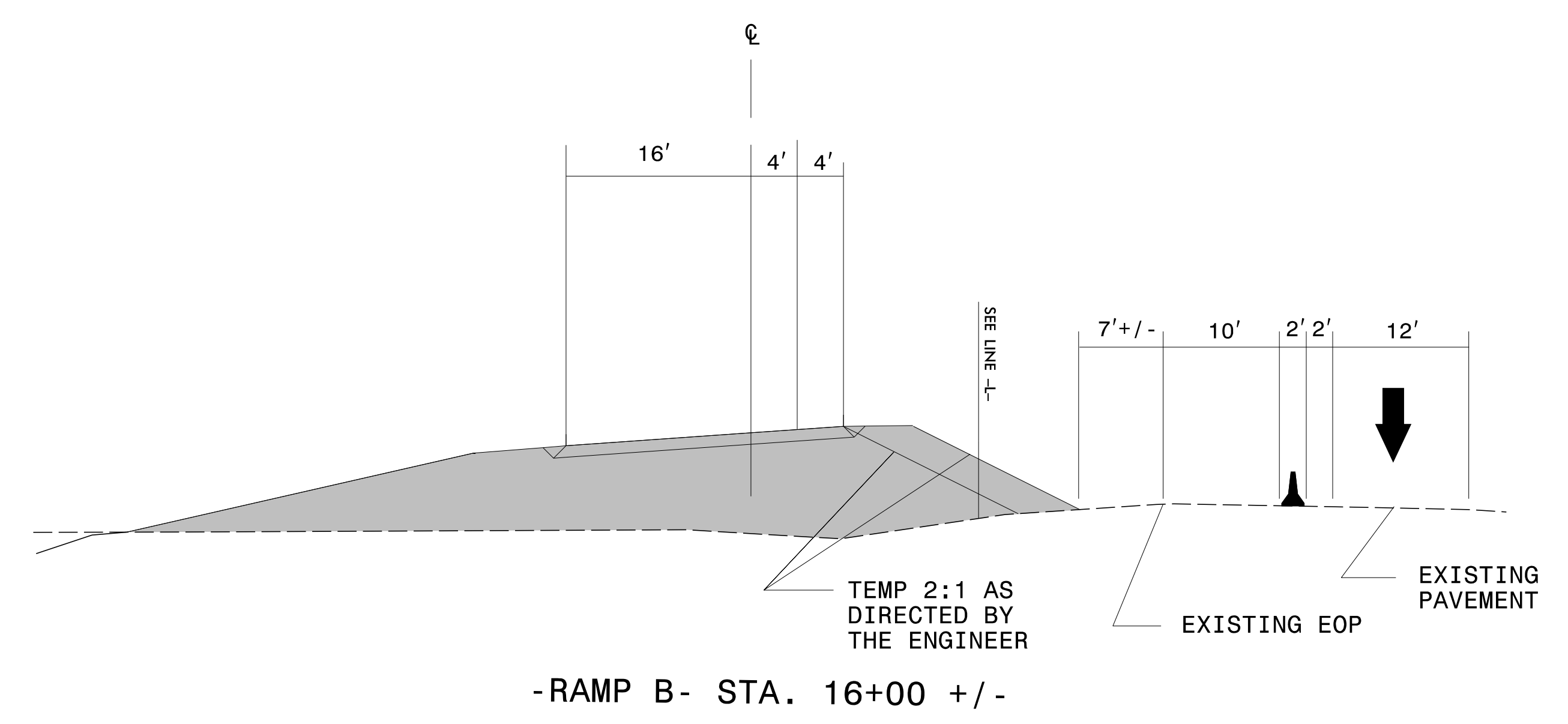
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AREA 2 - PHASE I

12/22/2016
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12/22/2016
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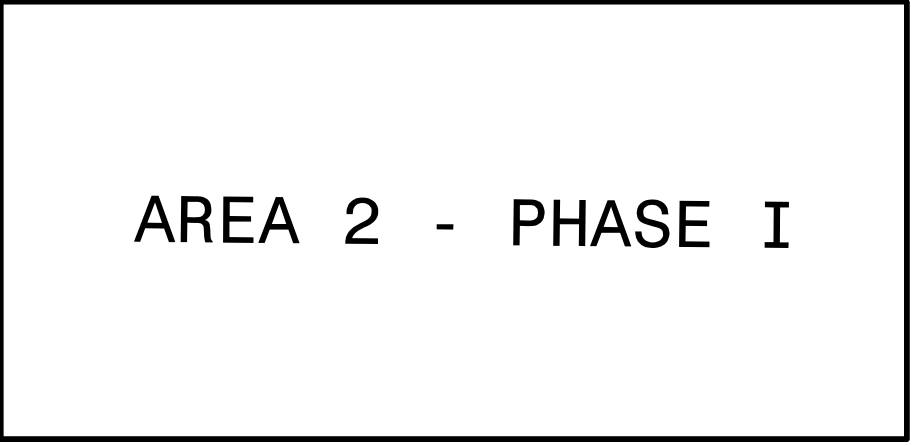
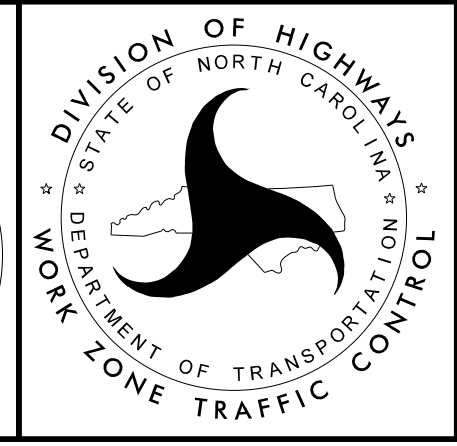
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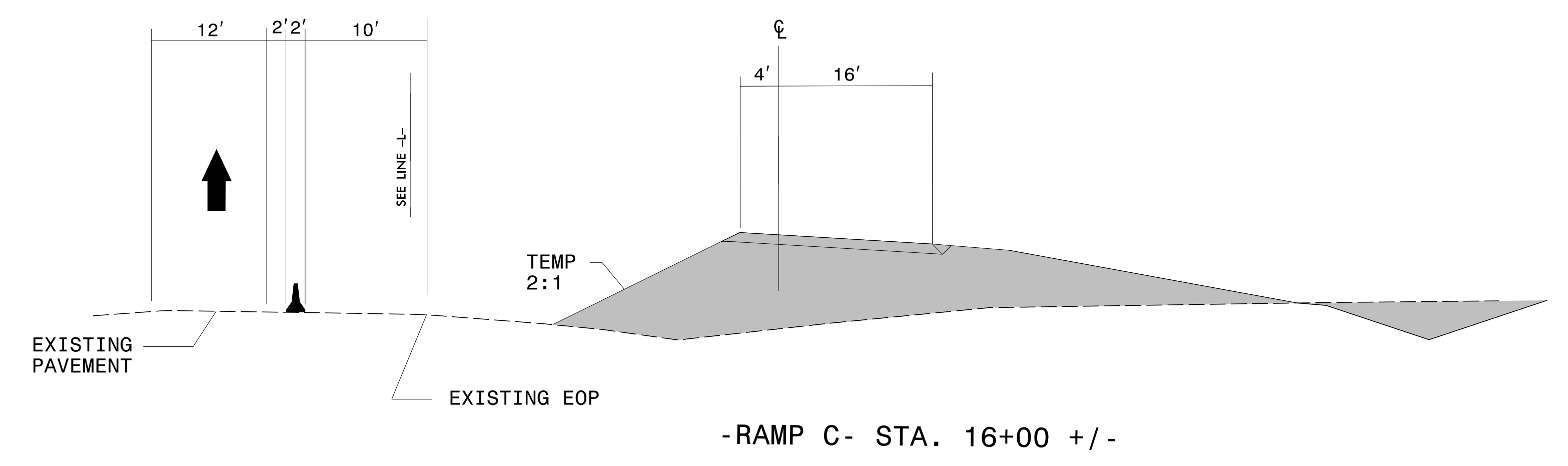
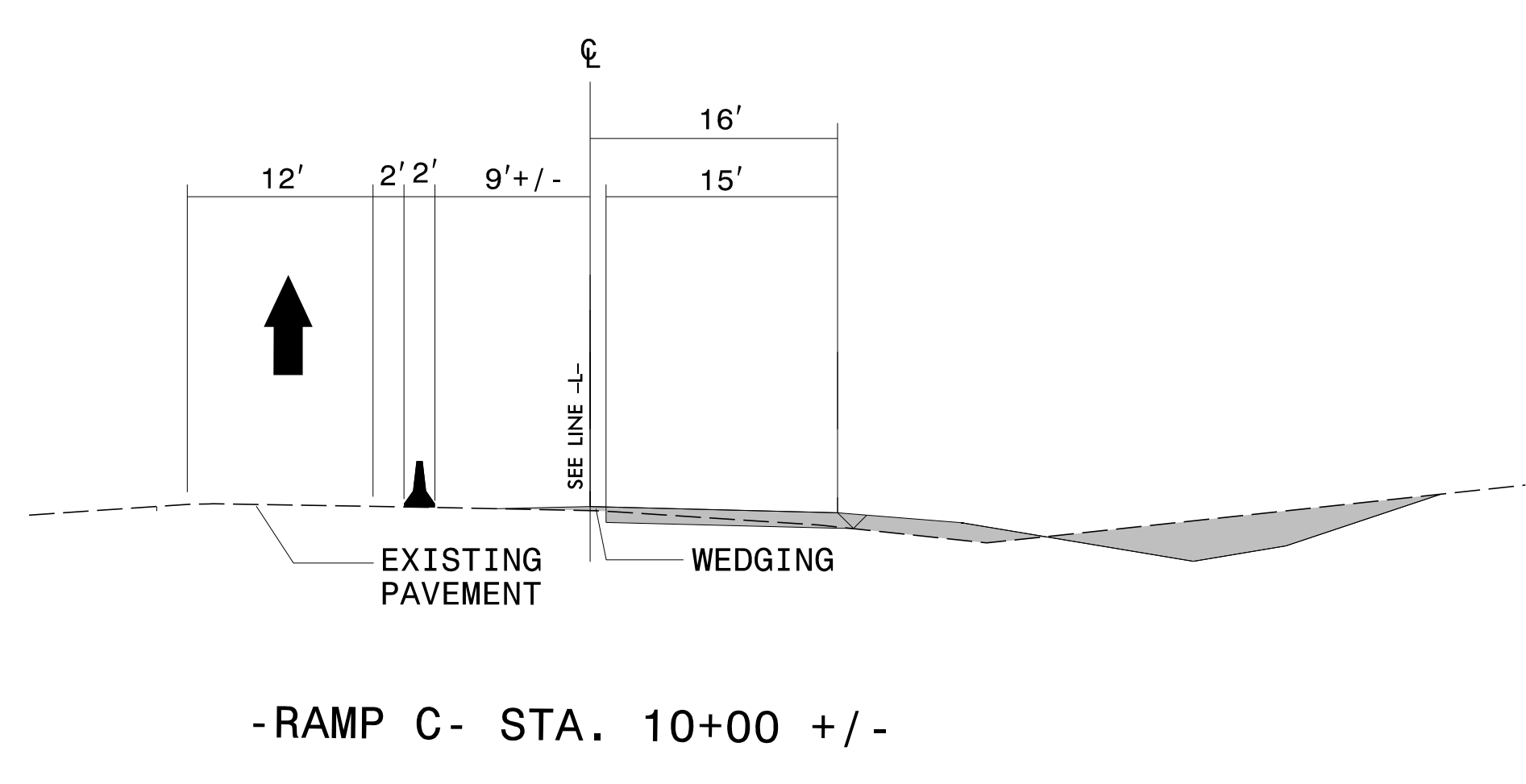
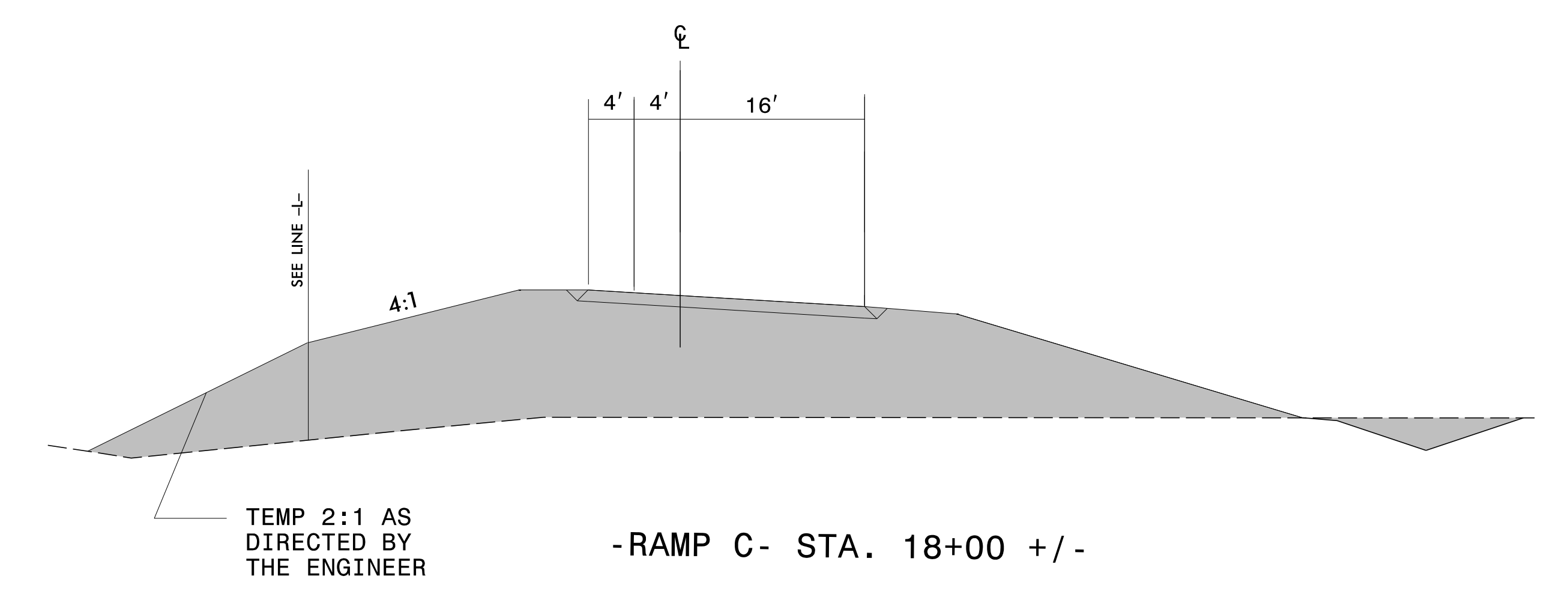
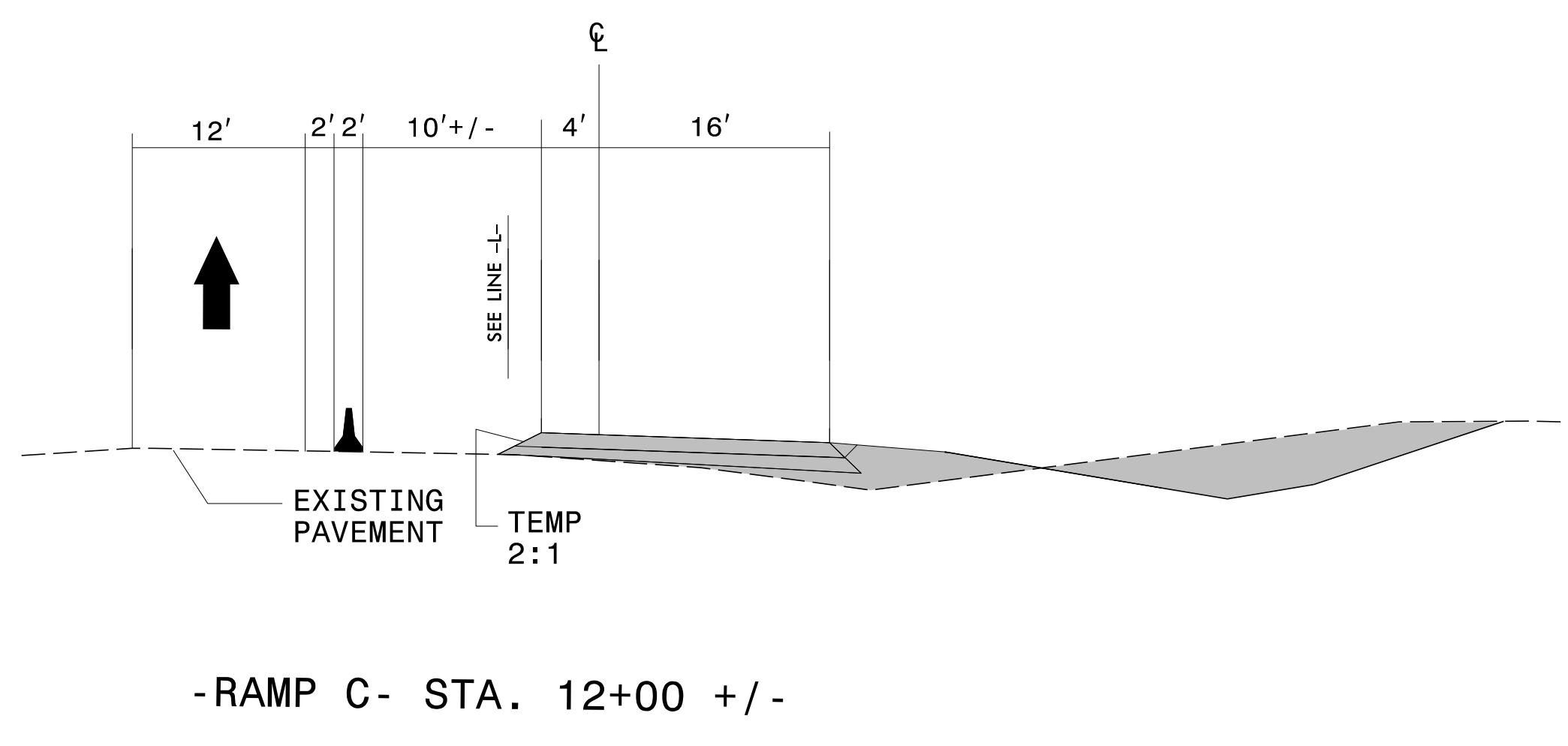
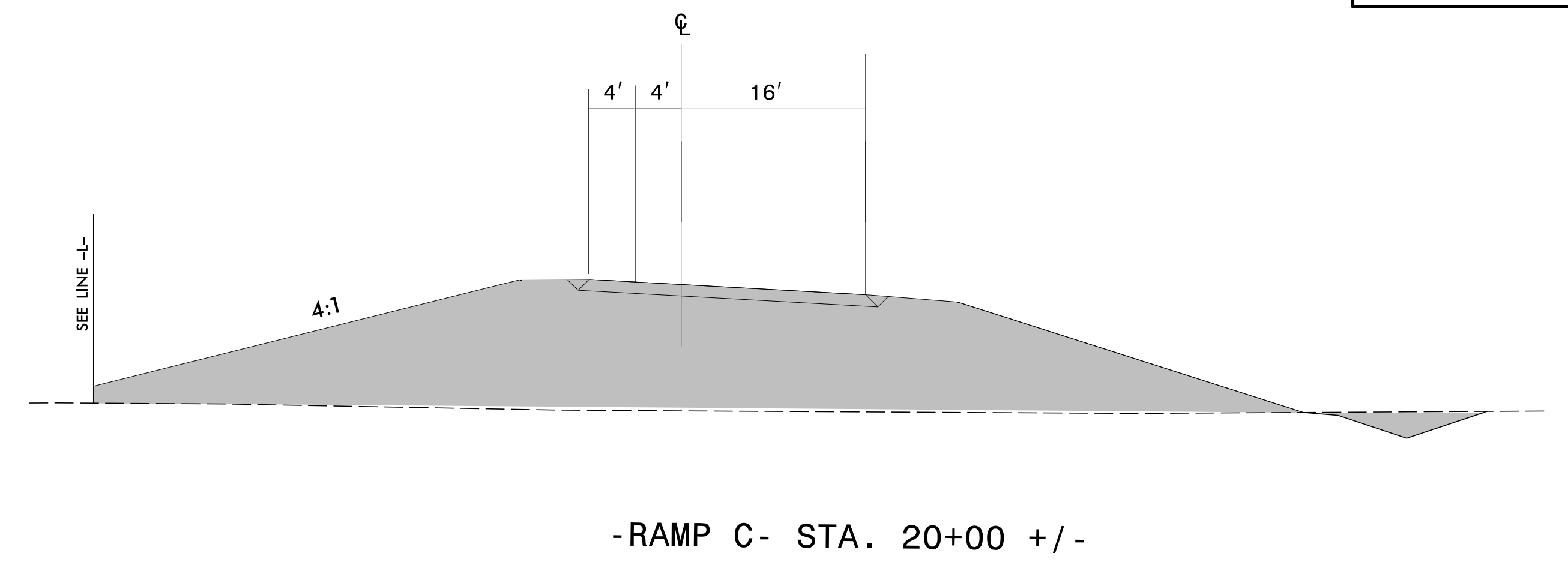
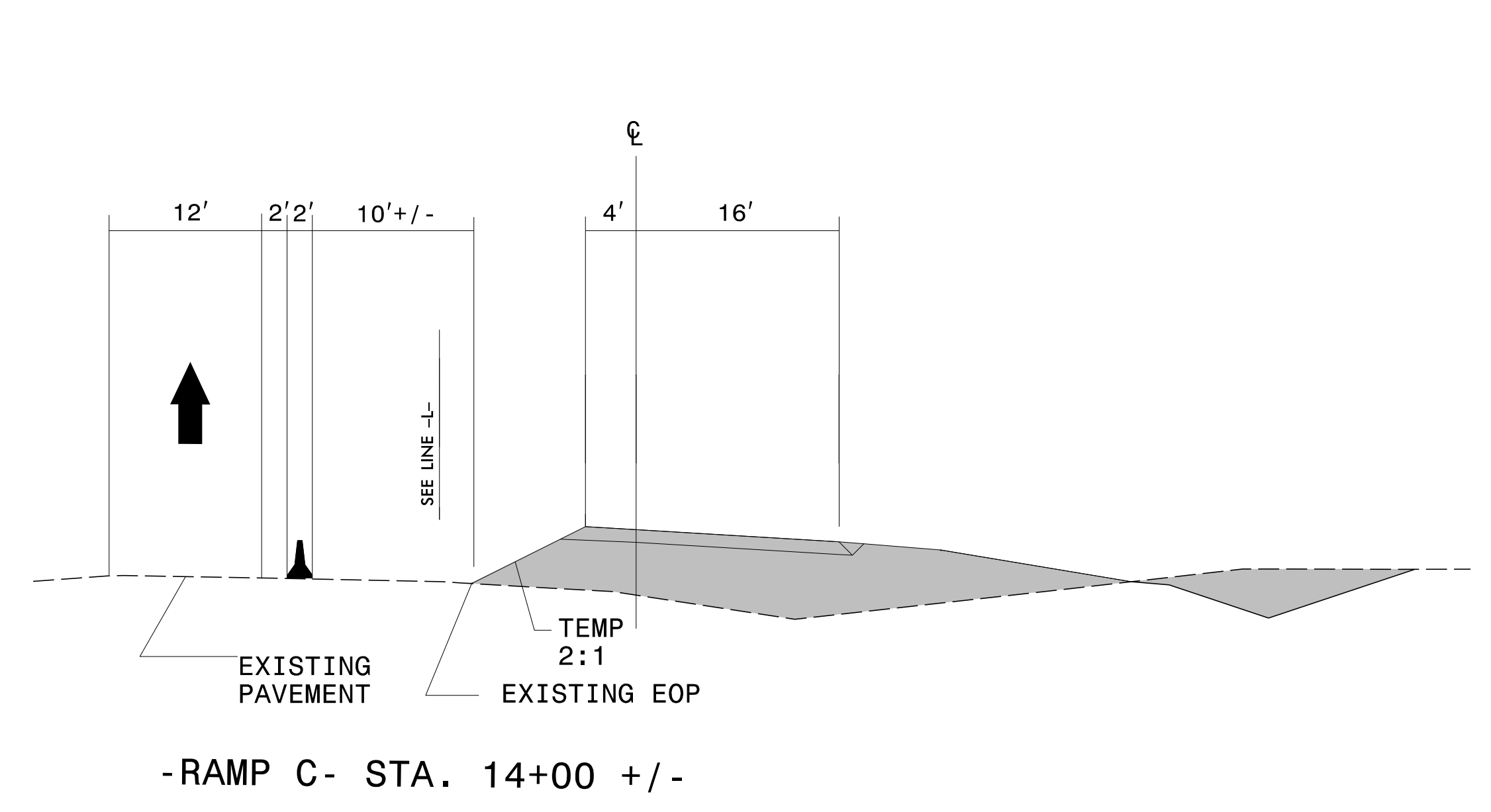
WETHERILL ENGINEERING
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 Raleigh, N.C. 27606
 License No. F-0377
 Bus: 919 851 8077
 Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

APPROVED: _____
 DATE: _____

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 P:\2015\NR-5719\TrafficControl\TCPVr5719_TC_TCP_PSH_A2-3.dgn
 User:skennedy

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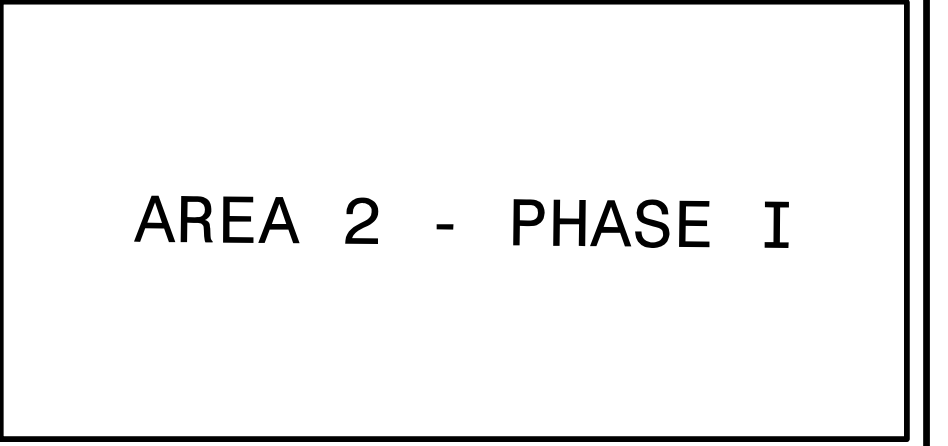
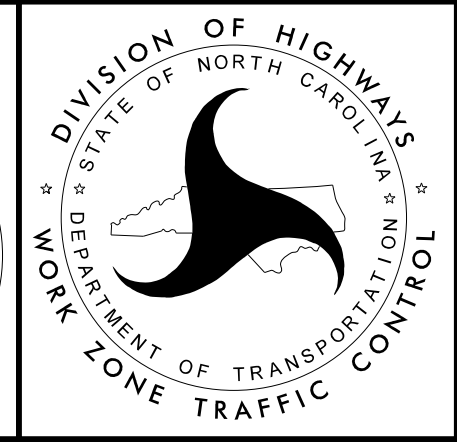
1223 Jones Franklin Rd.
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Bus: 919 851 8077
Fax: 919 851 8107

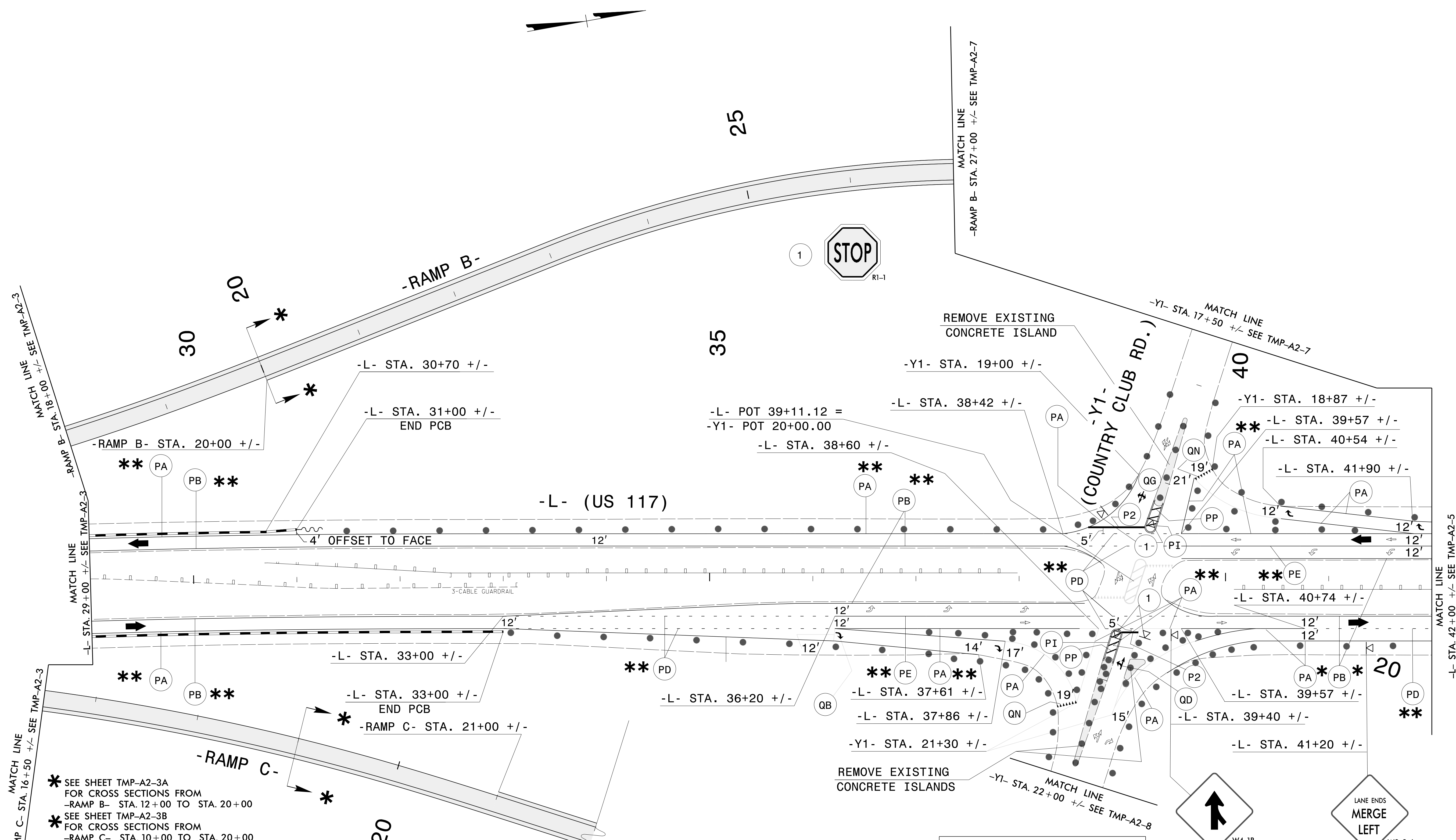
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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DATE: _____

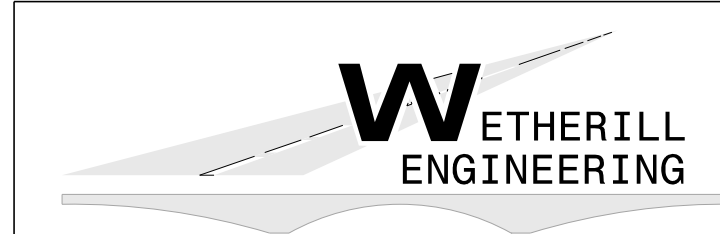
SEAL





- * SEE SHEET TMP-A2-3A FOR CROSS SECTIONS FROM -RAMP B- STA. 12+00 TO STA. 20+00
- * SEE SHEET TMP-A2-3B FOR CROSS SECTIONS FROM -RAMP C- STA. 10+00 TO STA. 20+00
- ** PLACE TEMPORARY PAVEMENT MARKINGS IN THE SAME LOCATIONS AS THE EXISTING.

NOTES: PAVEMENT MARKINGS SHOW ARE EXISTING UNLESS OTHERWISE NOTED.
SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

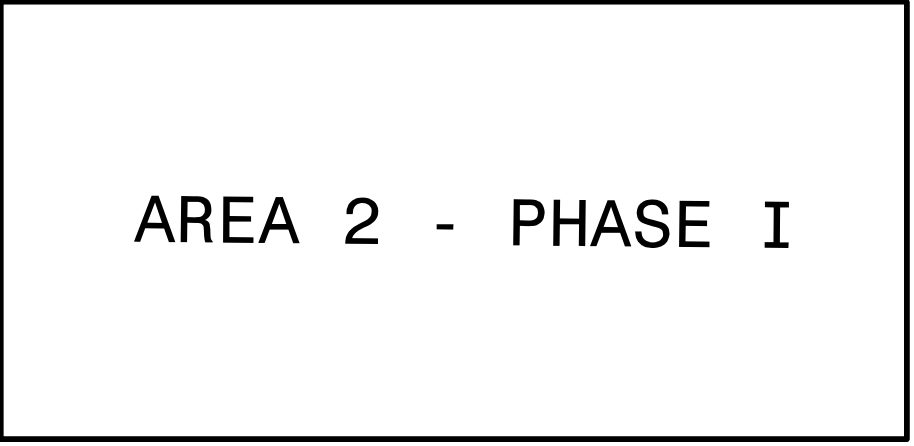
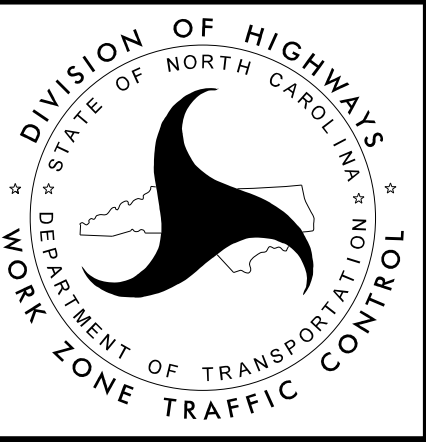


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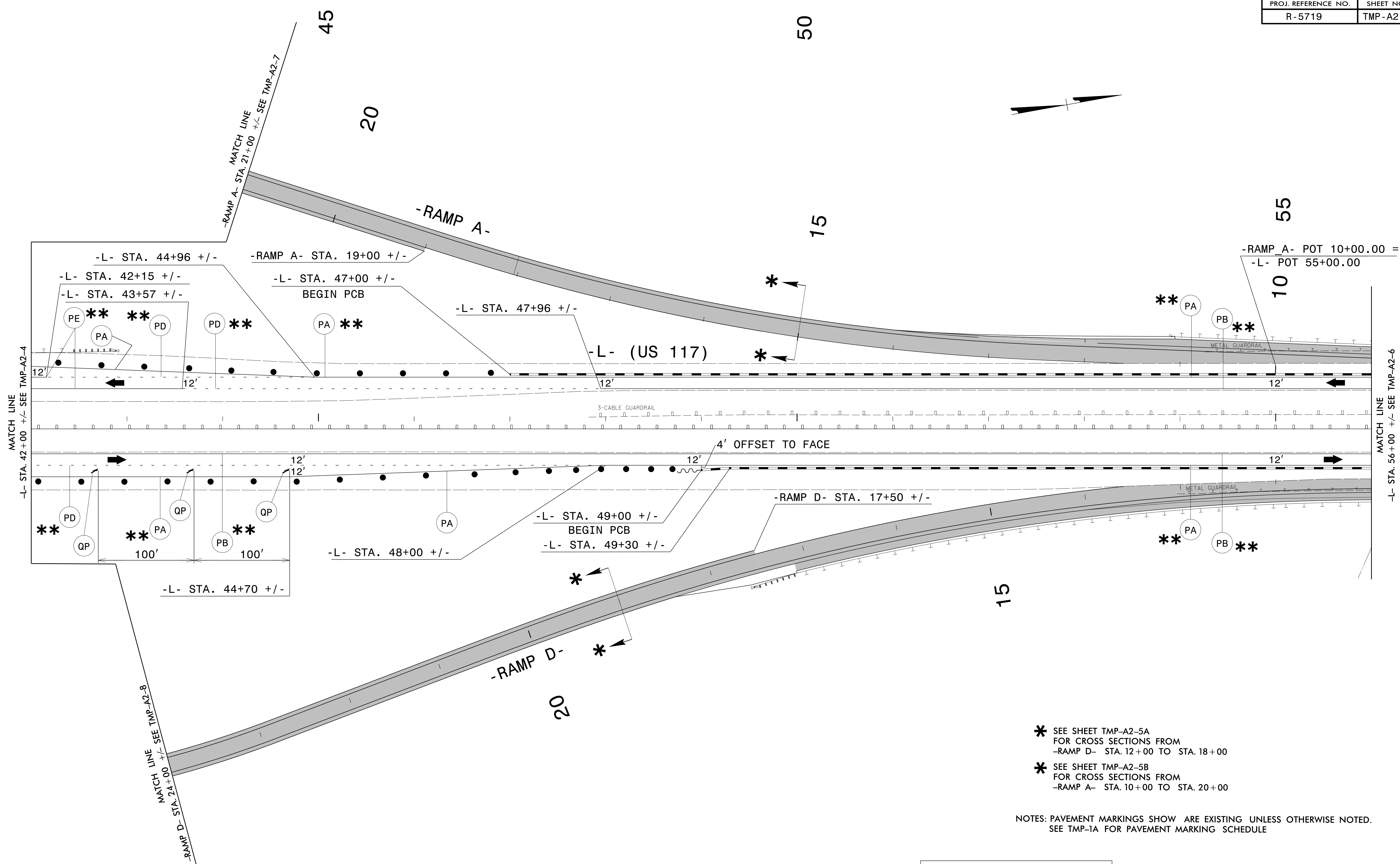
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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User:skennedy



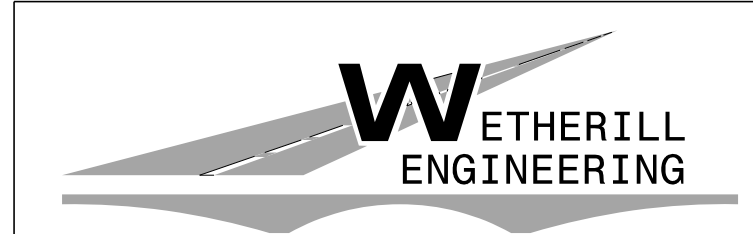
- * SEE SHEET TMP-A2-5A FOR CROSS SECTIONS FROM -RAMP D- STA. 12+00 TO STA. 18+00
- * SEE SHEET TMP-A2-5B FOR CROSS SECTIONS FROM -RAMP A- STA. 10+00 TO STA. 20+00

NOTES: PAVEMENT MARKINGS SHOW ARE EXISTING UNLESS OTHERWISE NOTED. SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

** PLACE TEMPORARY PAVEMENT MARKINGS IN THE SAME LOCATIONS AS THE EXISTING.

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

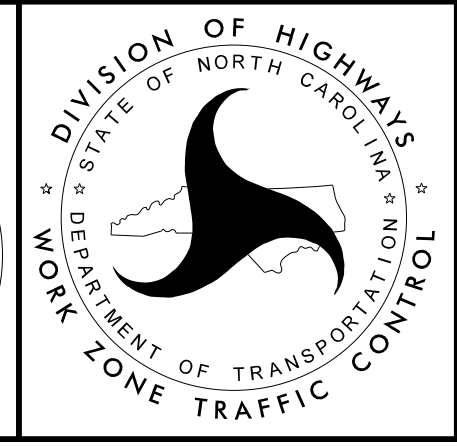
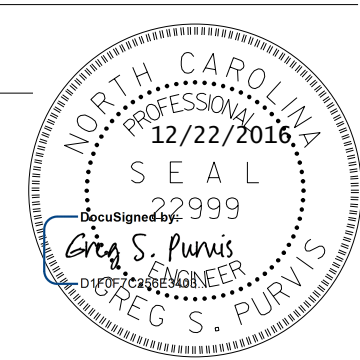
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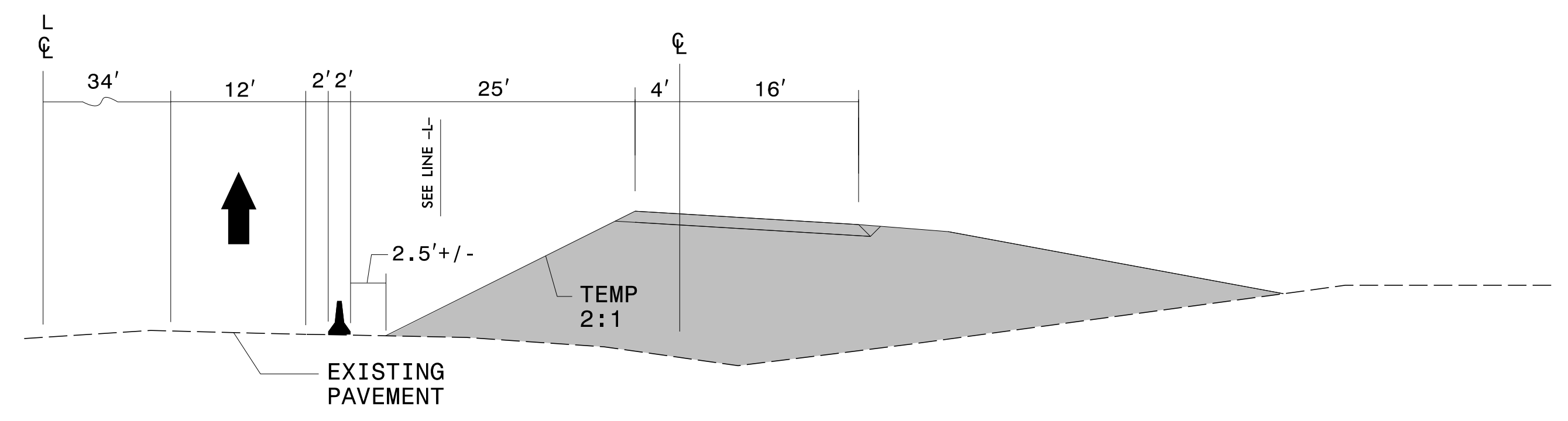
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Raleigh, N.C. 27606
License No. F-0377
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Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

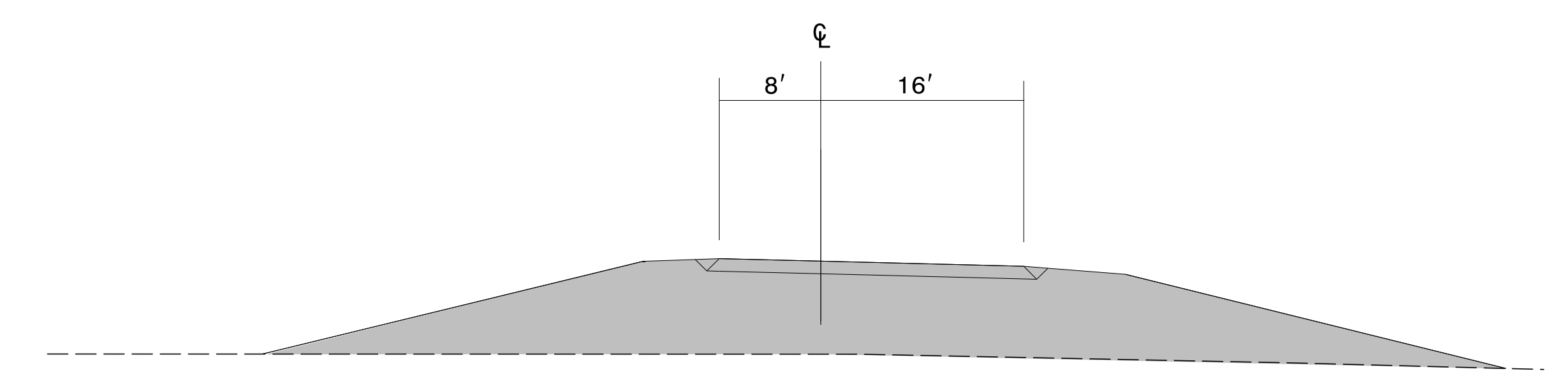
APPROVED: _____
DATE: _____
SEAL



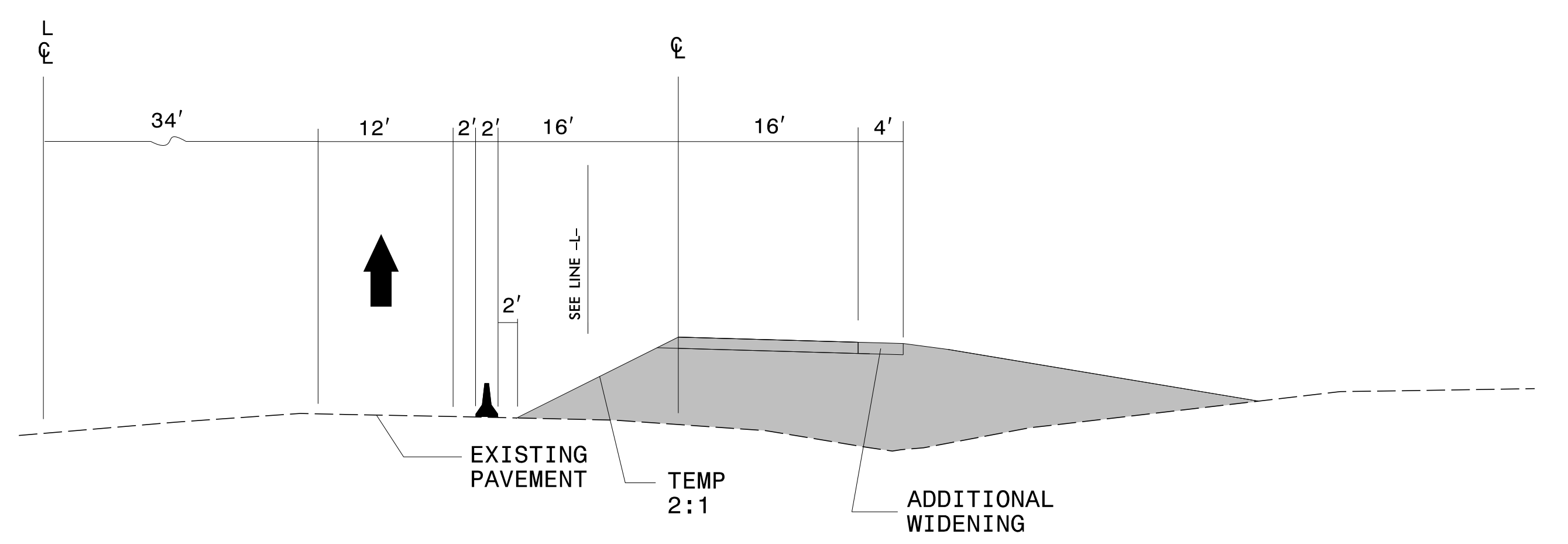
AREA 2 - PHASE I



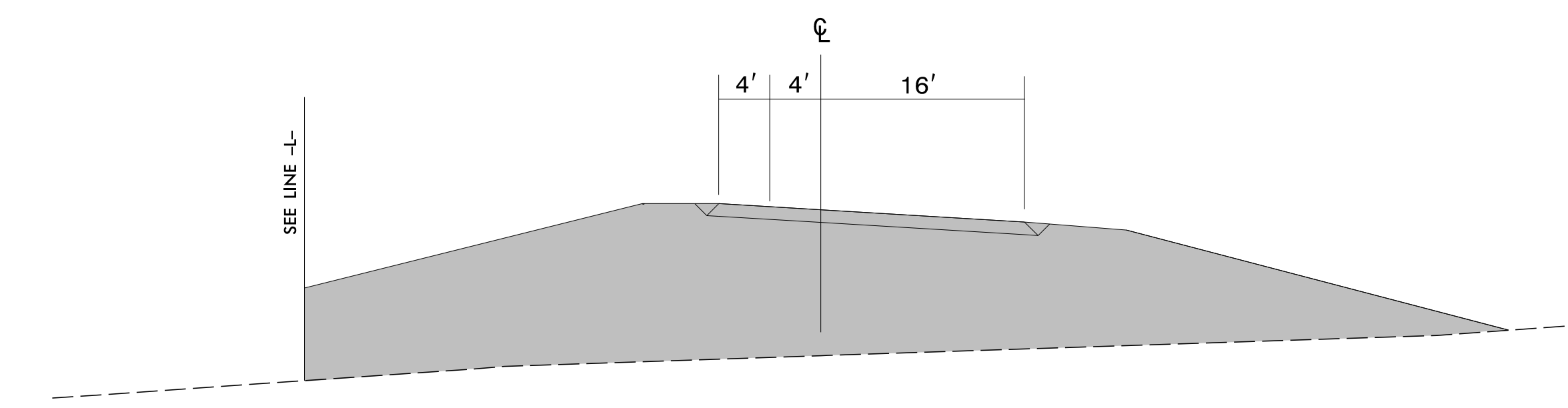
-RAMP A- STA. 14+00 +/-



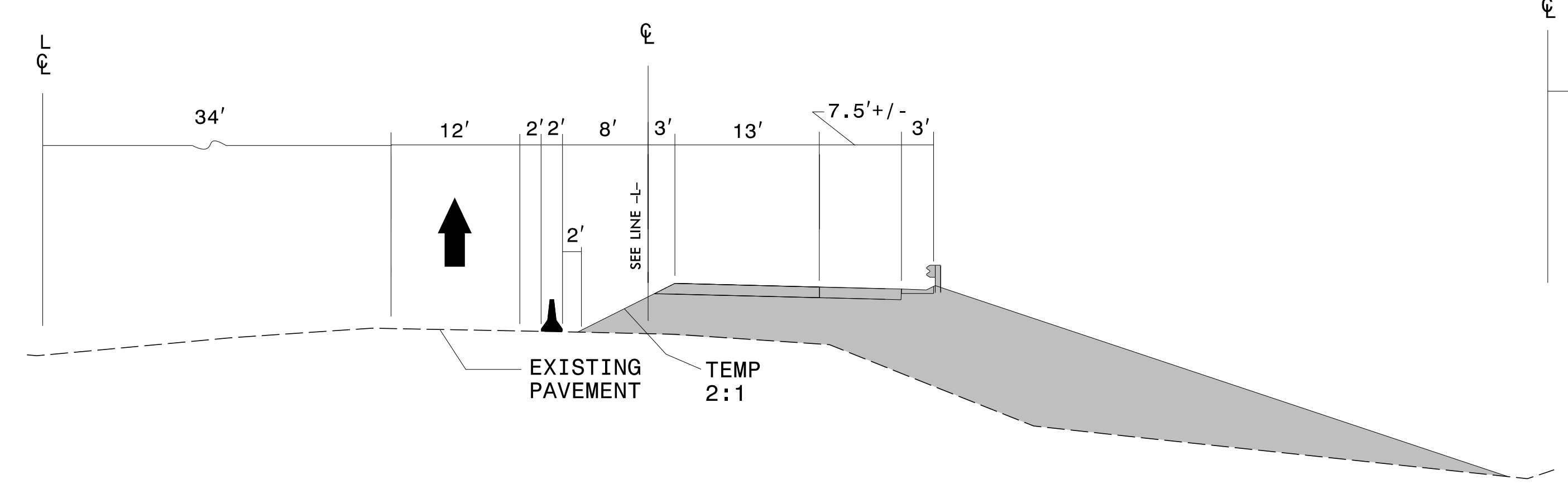
-RAMP A- STA. 20+00 +/-



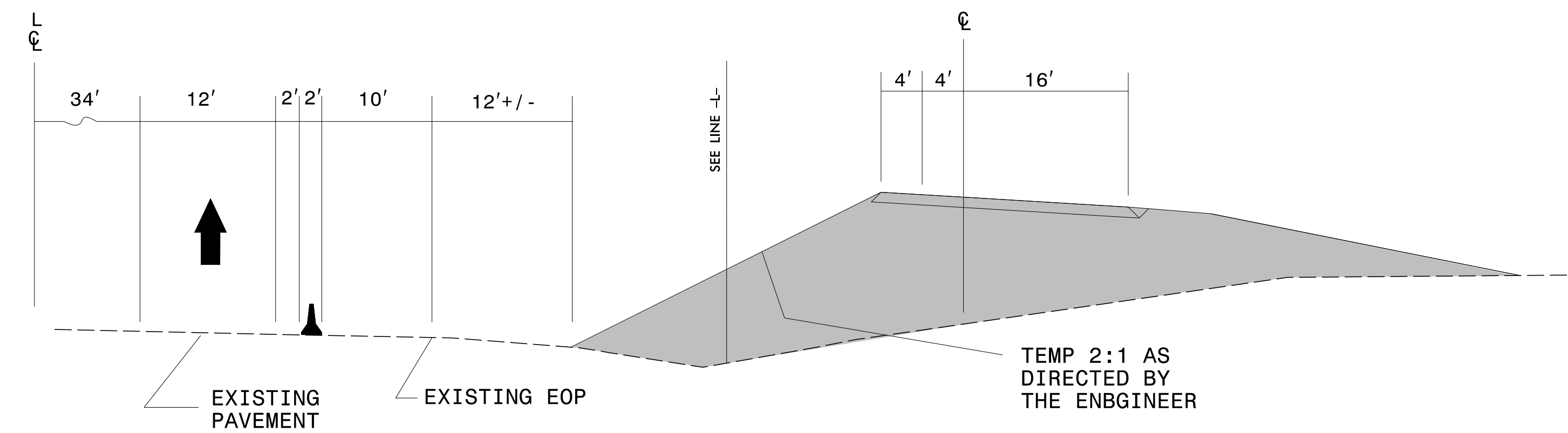
-RAMP A- STA. 12+00 +/-



-RAMP A- STA. 18+00 +/-



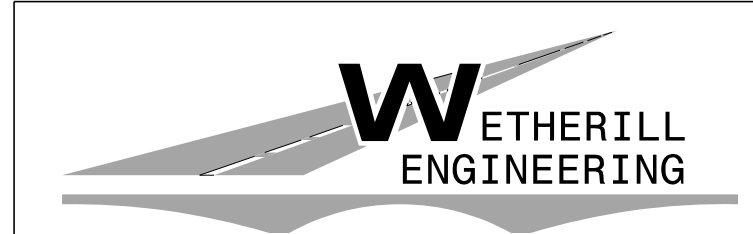
-RAMP A- STA. 10+00 +/-



-RAMP A- STA. 16+00 +/-

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UNLESS ALL SIGNATURES COMPLETED

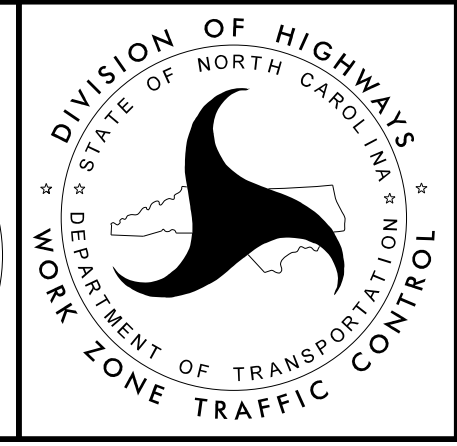
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User:skennedy



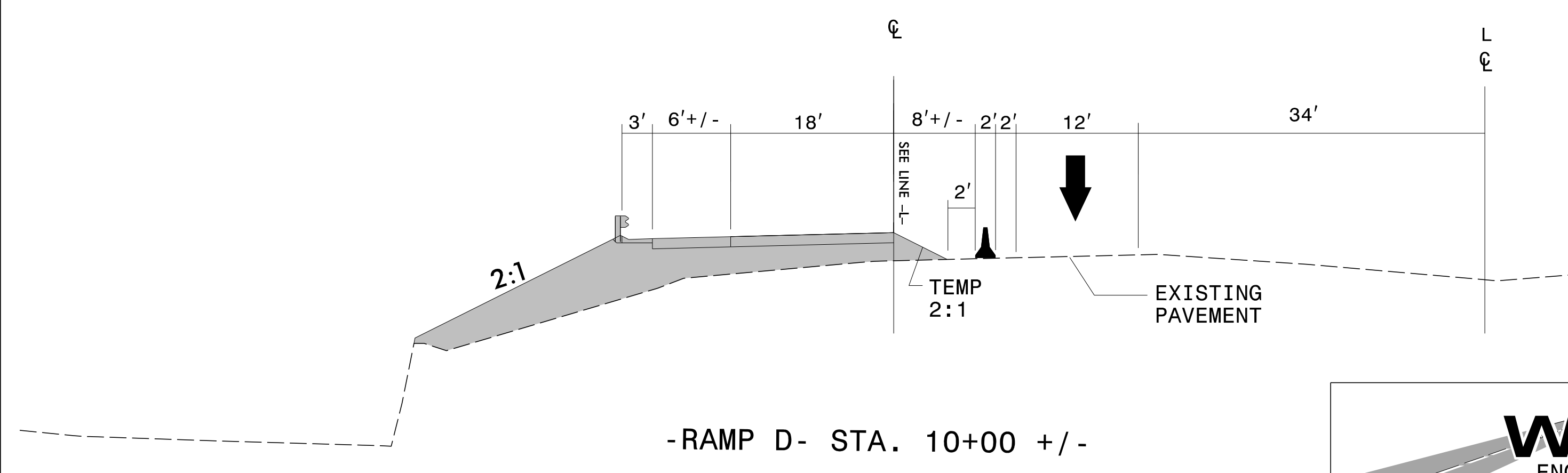
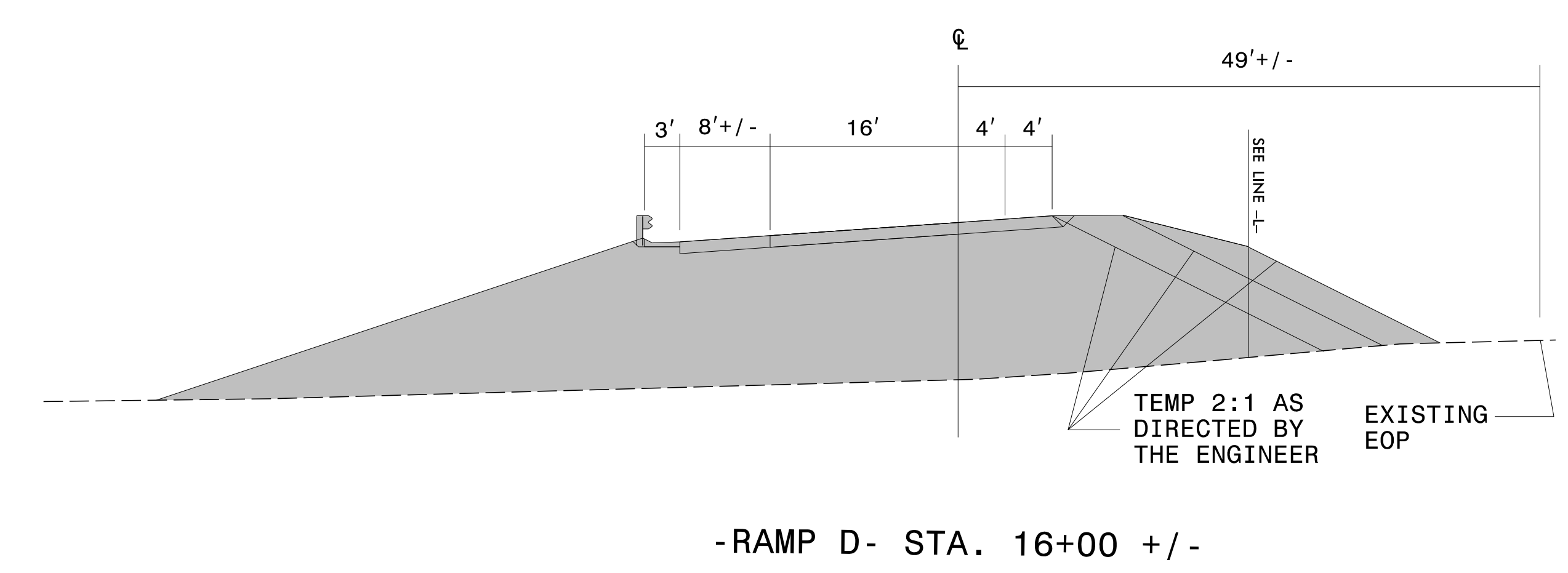
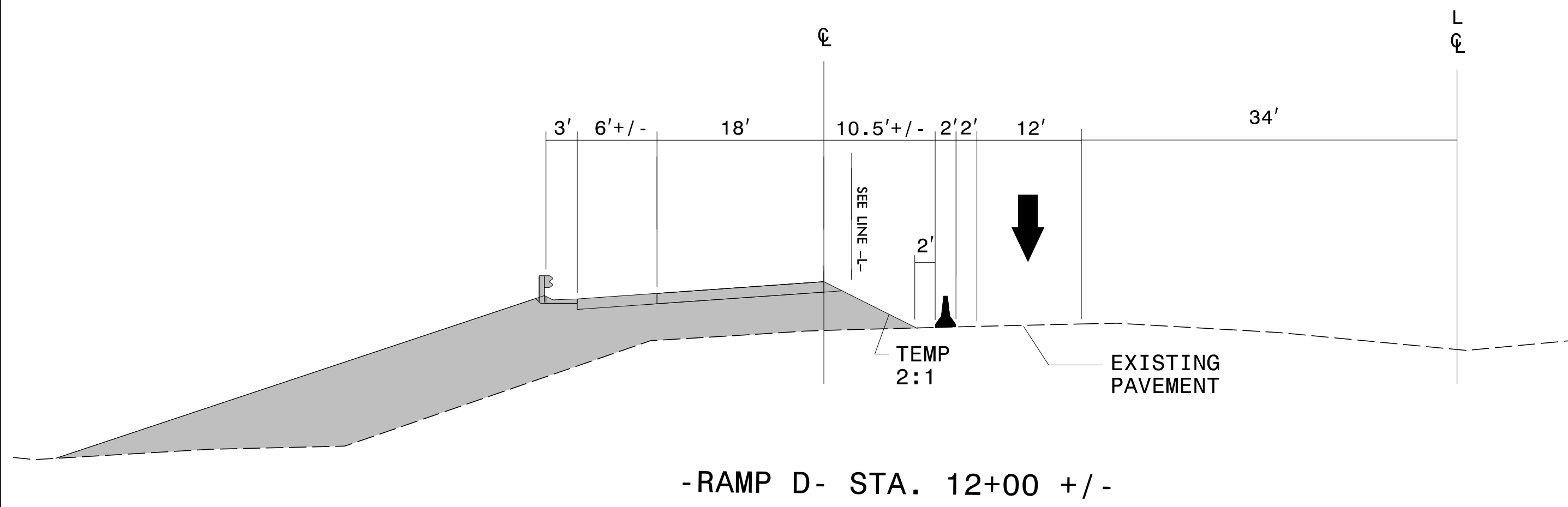
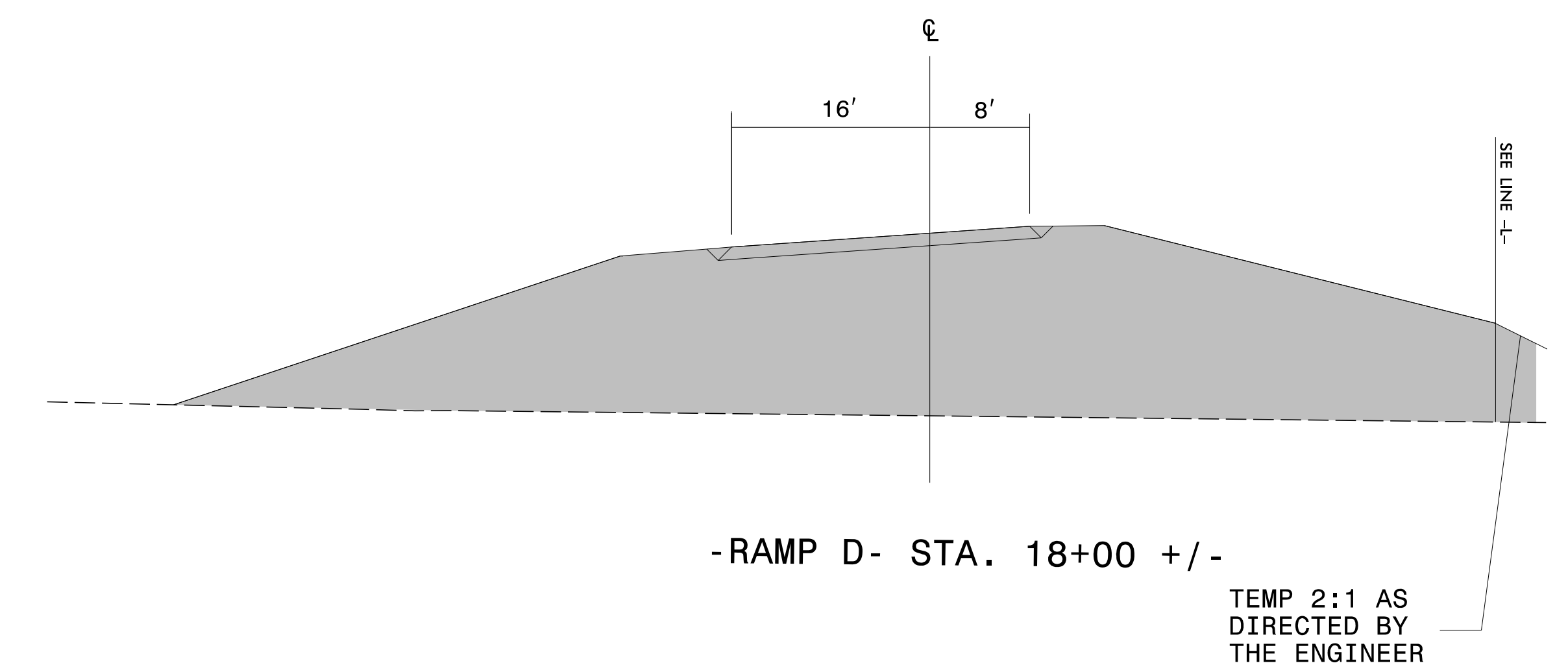
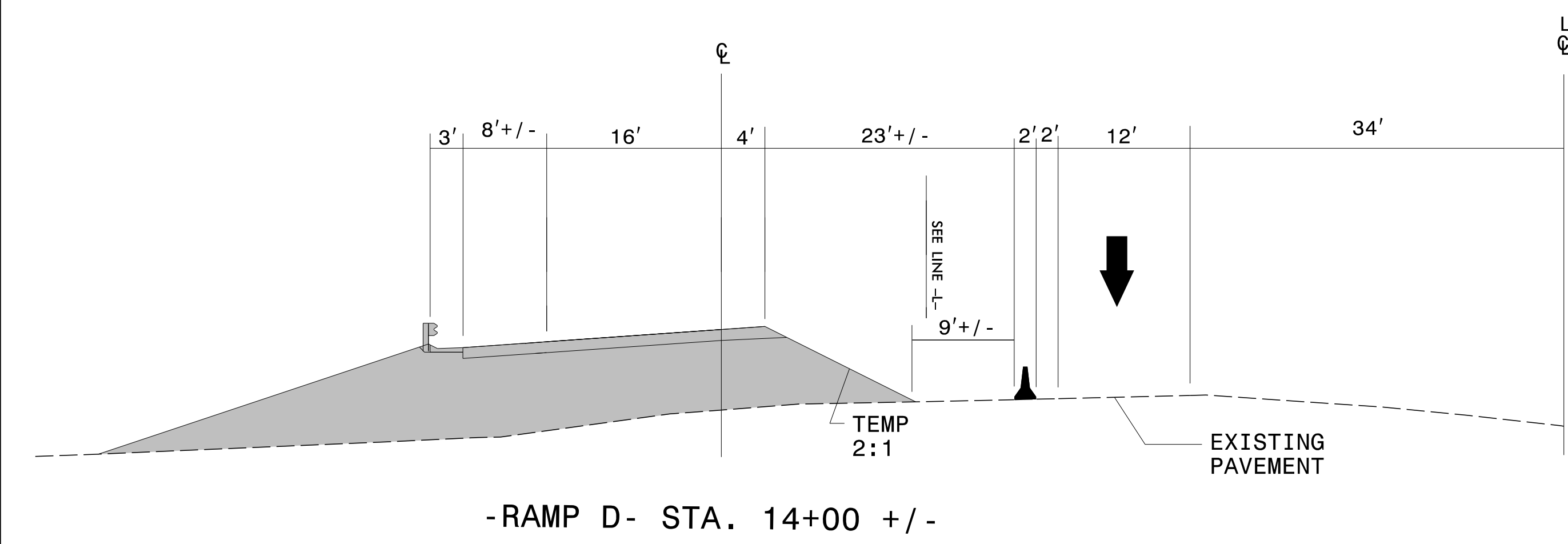
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Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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DATE: _____
SEAL

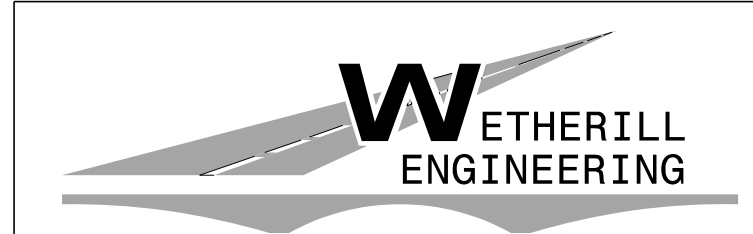


AREA 2 - PHASE I



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User:skennedy

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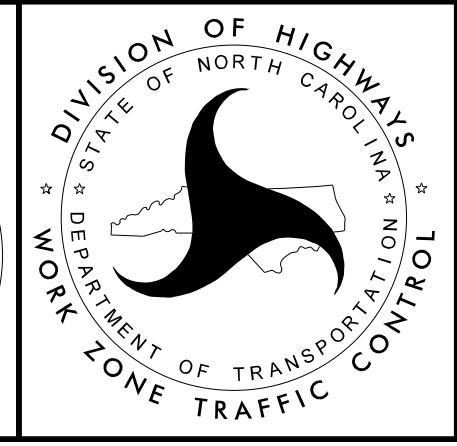


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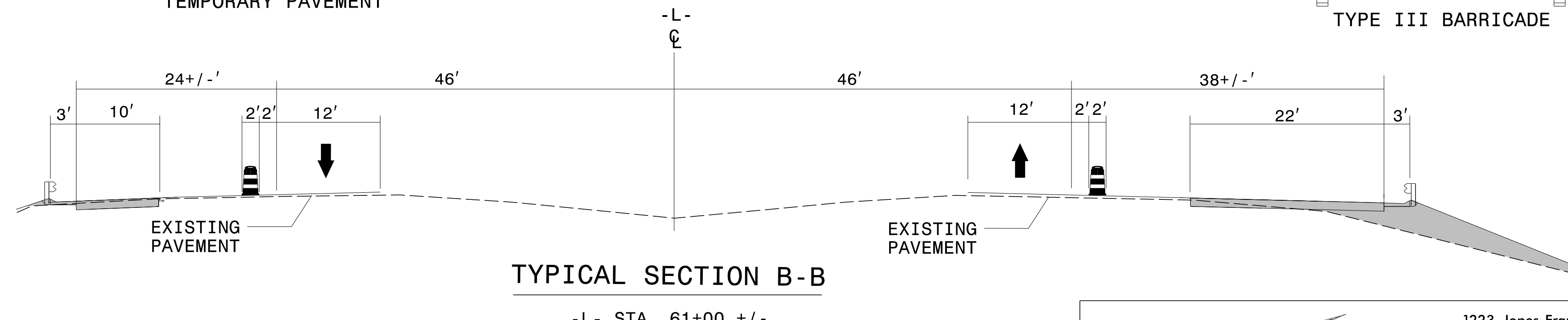
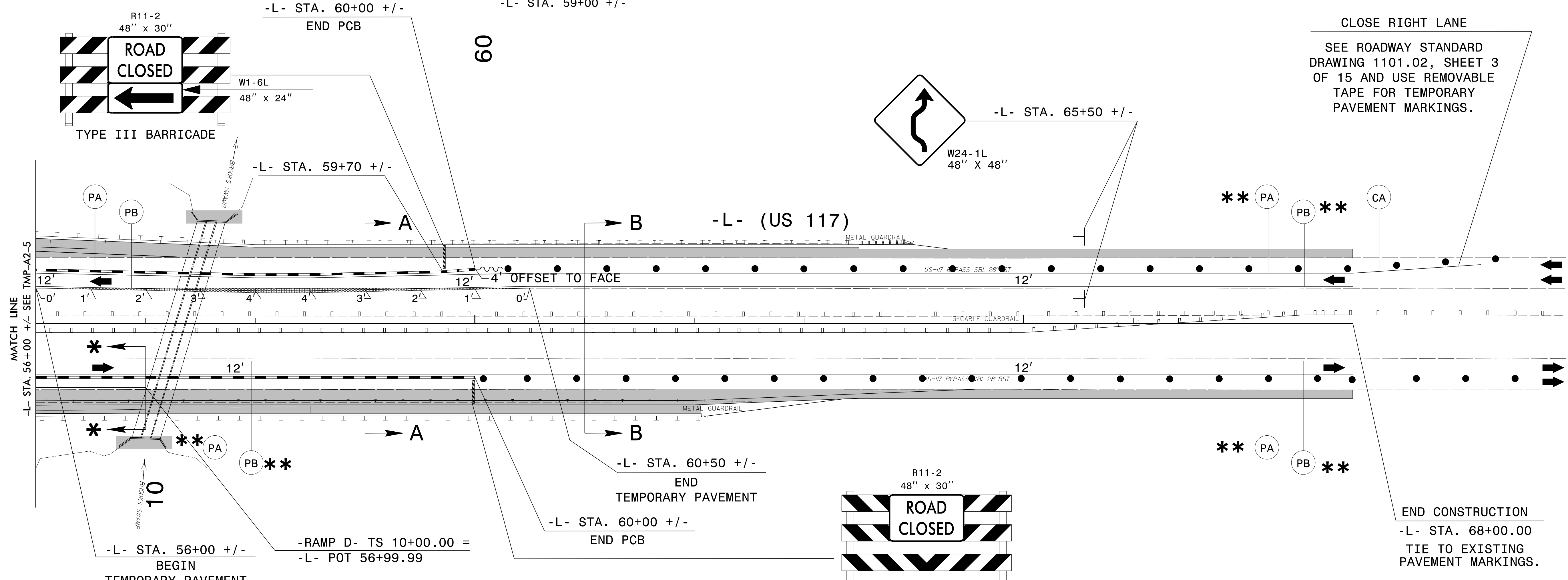
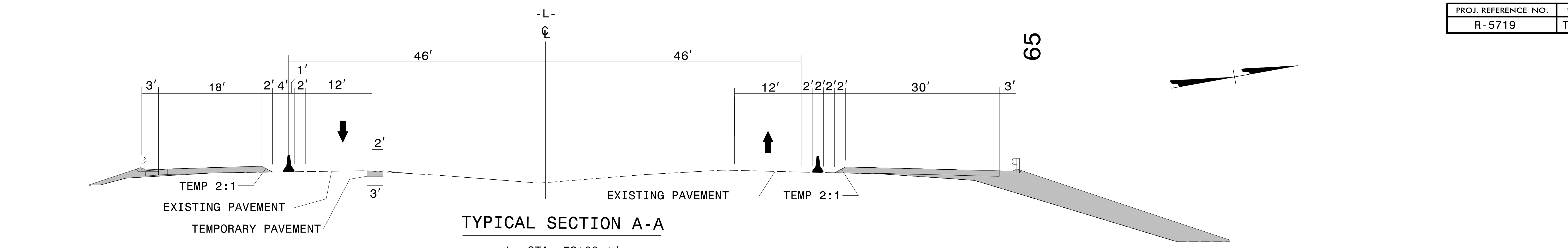
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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DATE: _____

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AREA 2 - PHASE I



CLOSE RIGHT LANE
SEE ROADWAY STANDARD
DRAWING 1101.02, SHEET 3
OF 15 AND USE REMOVABLE
TAPE FOR TEMPORARY
PAVEMENT MARKINGS.

* SEE SHEET TMP-A2-5A
FOR CROSS SECTION
-RAMP D- STA. 10+00

** PLACE TEMPORARY PAVEMENT MARKINGS IN THE SAME
LOCATIONS AS THE EXISTING.

NOTES: PAVEMENT MARKINGS SHOW ARE EXISTING UNLESS OTHERWISE NOTED.
SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

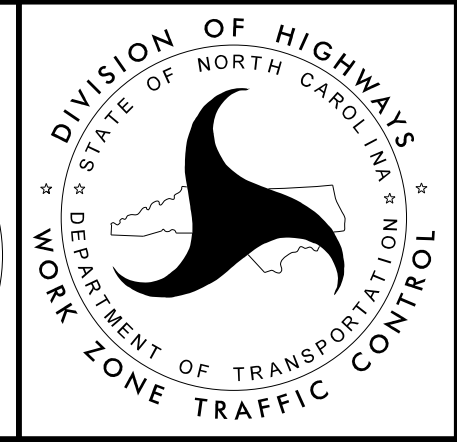
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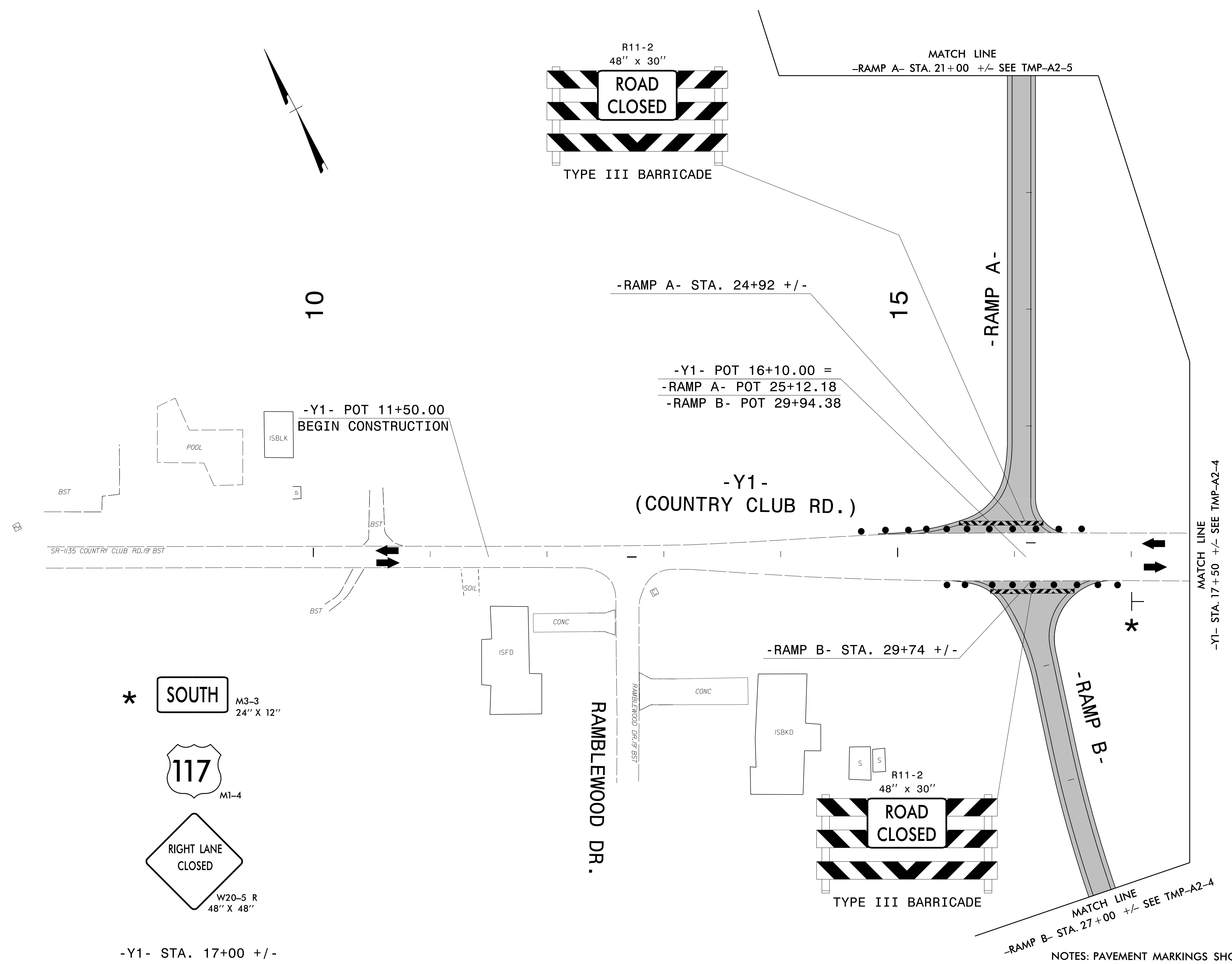
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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DATE: _____
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AREA 2 - PHASE I

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P:\2015\SR-5719\TrafficControl\TCPVr5719_TC_TCP_PSH_A2-6.dgn
User:skennedy

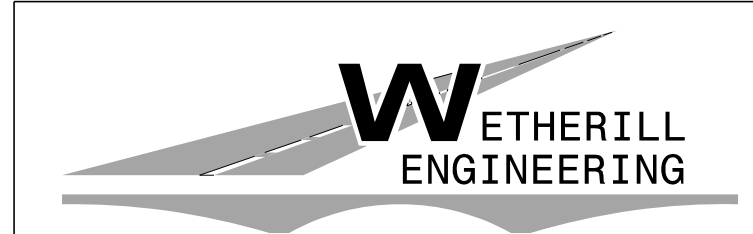


-Y1- STA. 17+00 +/-

NOTES: PAVEMENT MARKINGS SHOW ARE EXISTING UNLESS OTHERWISE NOTED. SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

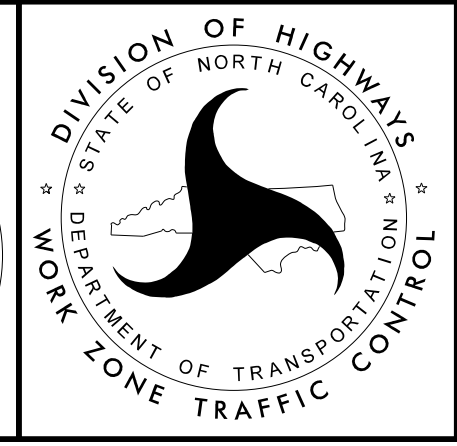
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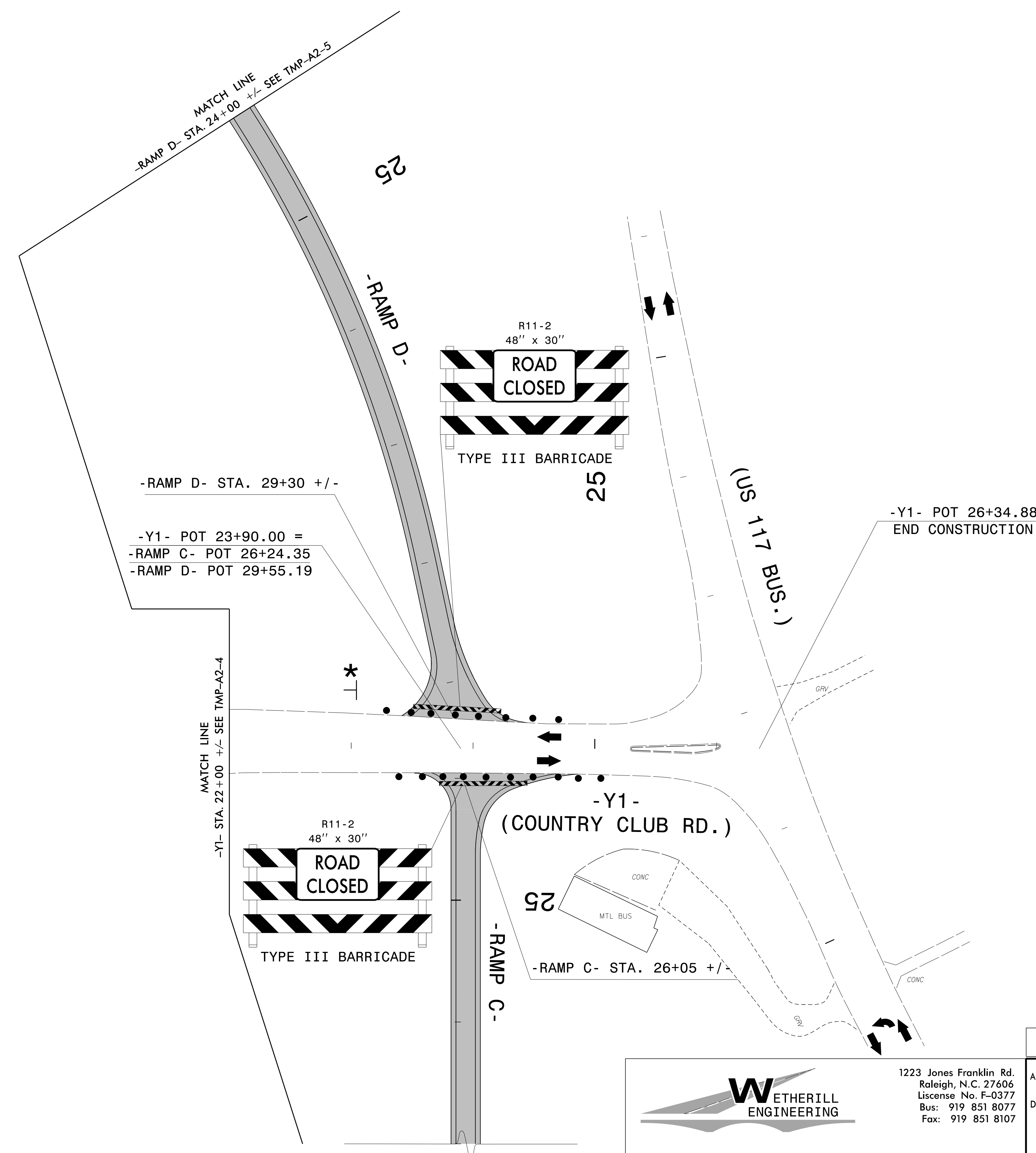
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

APPROVED: _____
 DATE: _____
 SEAL



AREA 2 - PHASE I



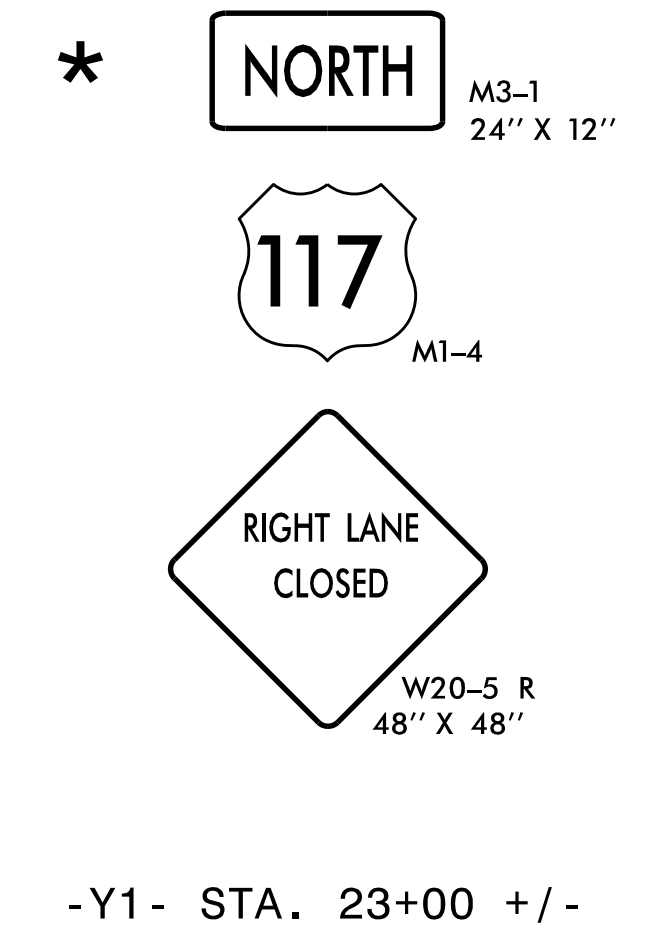
-RAMP D- STA. 29+30 +/-
 -Y1- POT 23+90.00 =
 -RAMP C- POT 26+24.35
 -RAMP D- POT 29+55.19

-Y1- POT 26+34.88
 END CONSTRUCTION

MATCH LINE
 -Y1- STA. 22+00 +/- SEE TMP-A2-4

-Y1-
 (COUNTRY CLUB RD.)

-RAMP C- STA. 26+05 +/-



-Y1- STA. 23+00 +/-

NOTES: PAVEMENT MARKINGS SHOW ARE EXISTING UNLESS OTHERWISE NOTED.
 SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

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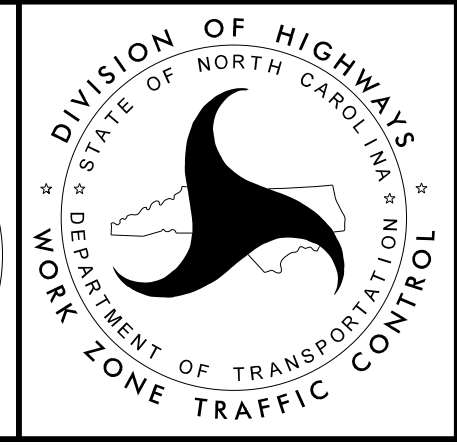
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 User: skennedy

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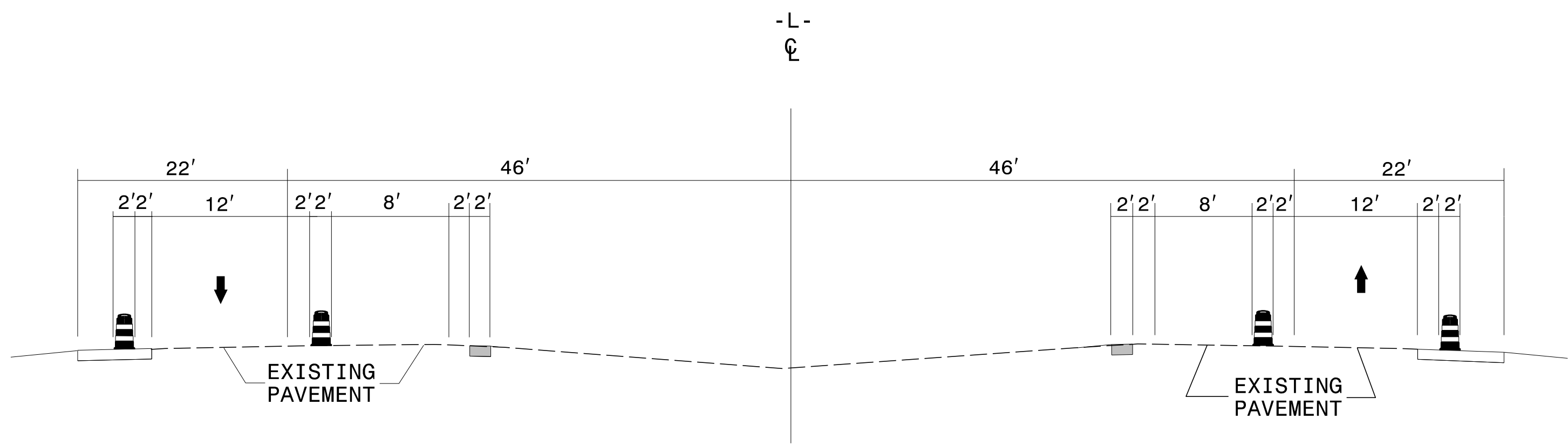
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

APPROVED: _____
 DATE: _____

SEAL



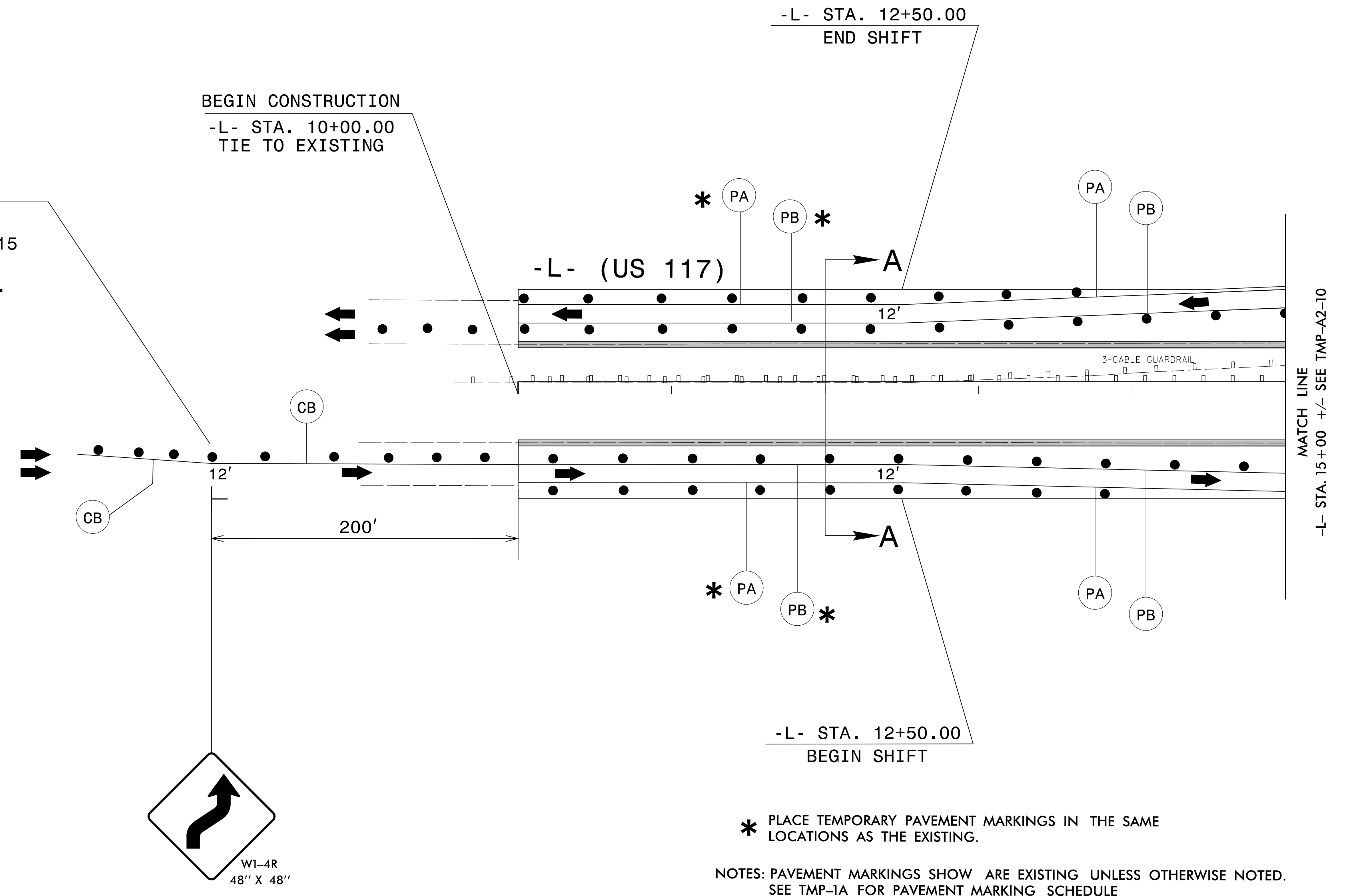
AREA 2 - PHASE I



TYPICAL SECTION A-A
-L- STA. 12+00 +/-

CLOSE LEFT LANE
SEE ROADWAY STANDARD
DRAWING 1101.02, SHEET 3 OF 15
AND USE REMOVABLE TAPE FOR
TEMPORARY PAVEMENT MARKINGS.

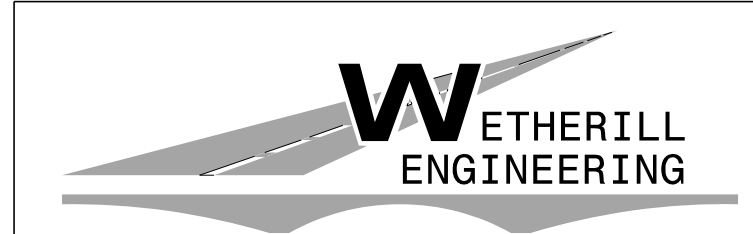
BEGIN CONSTRUCTION
-L- STA. 10+00.00
TIE TO EXISTING



* PLACE TEMPORARY PAVEMENT MARKINGS IN THE SAME LOCATIONS AS THE EXISTING.

NOTES: PAVEMENT MARKINGS SHOW ARE EXISTING UNLESS OTHERWISE NOTED.
SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

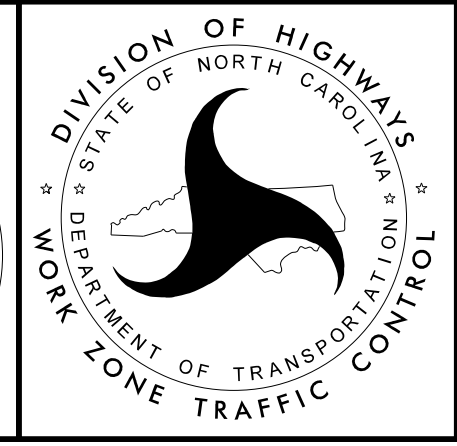
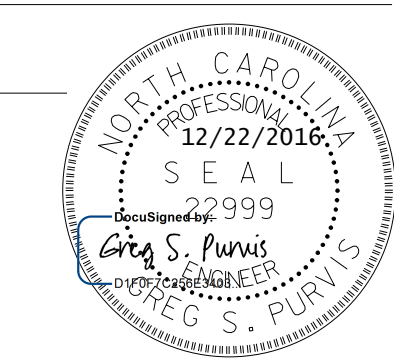
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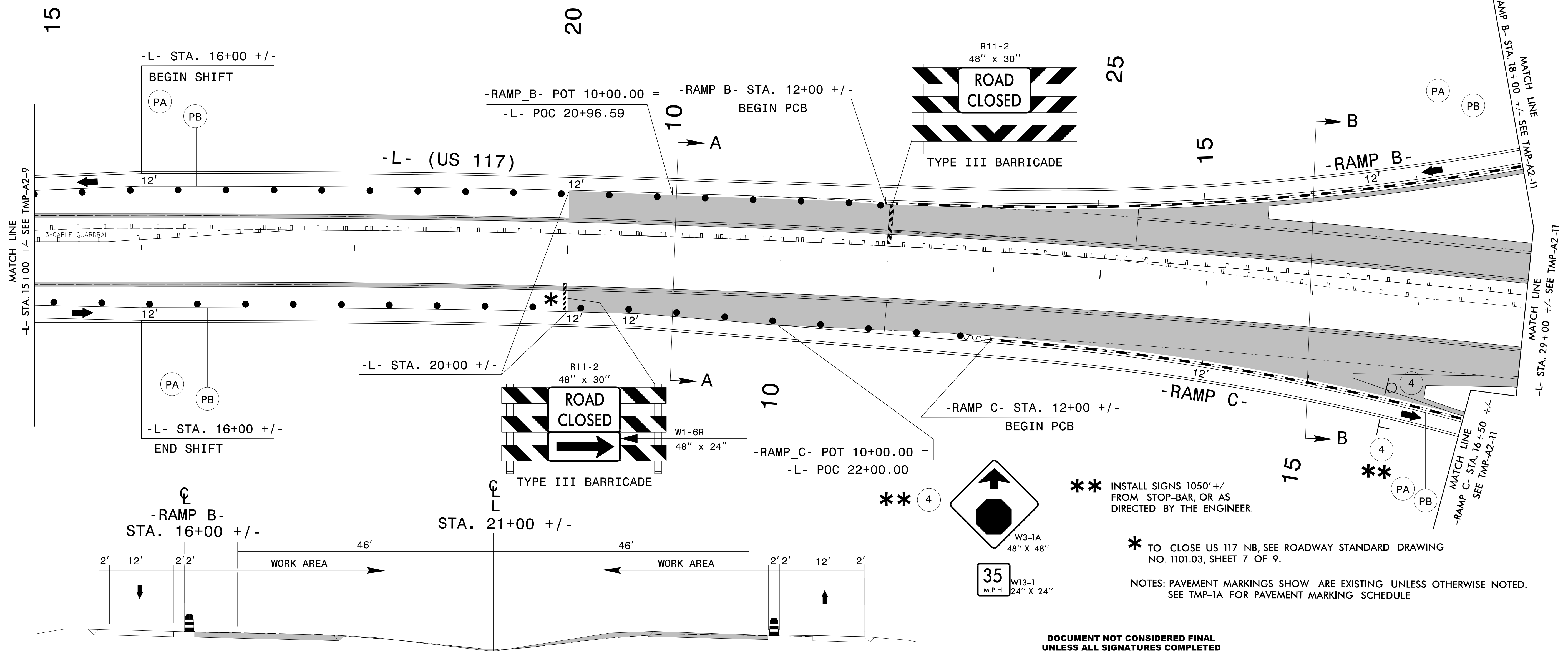
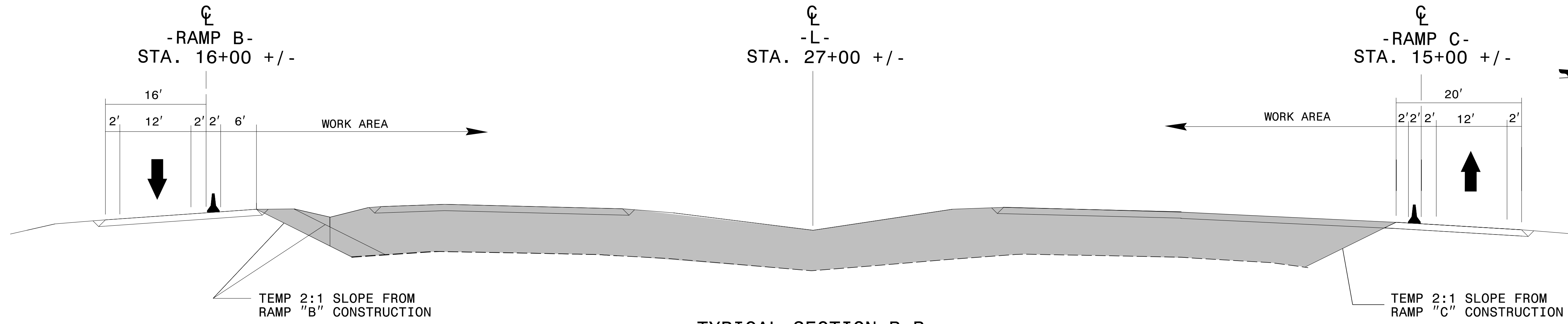
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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AREA 2 - PHASE II

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User:skennedy



12/22/2016
 P:\2015\NR-5719\TrafficControl\TCPV-5719_TC_TCP_PSH_A2-10.dgn
 User:skennedy

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 Fax: 919 851 8107

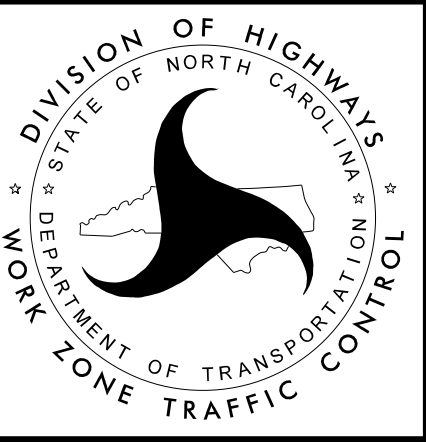
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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

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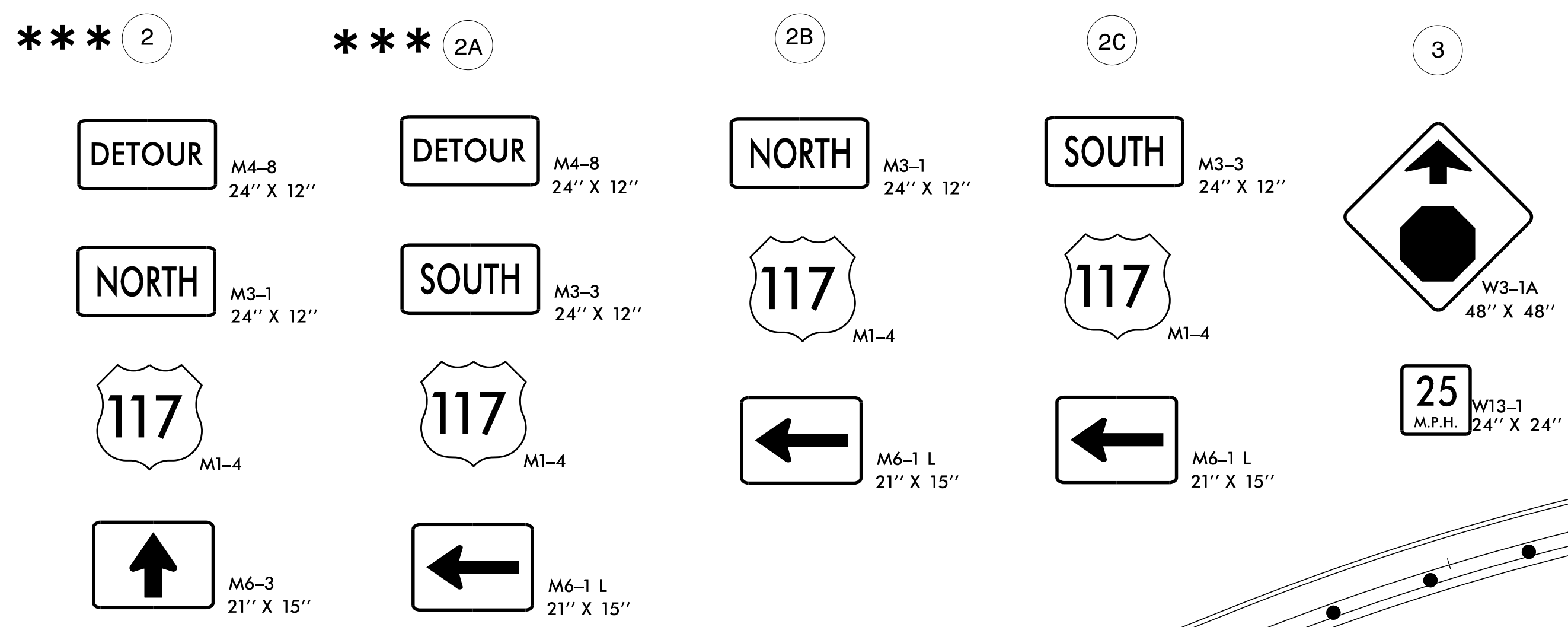
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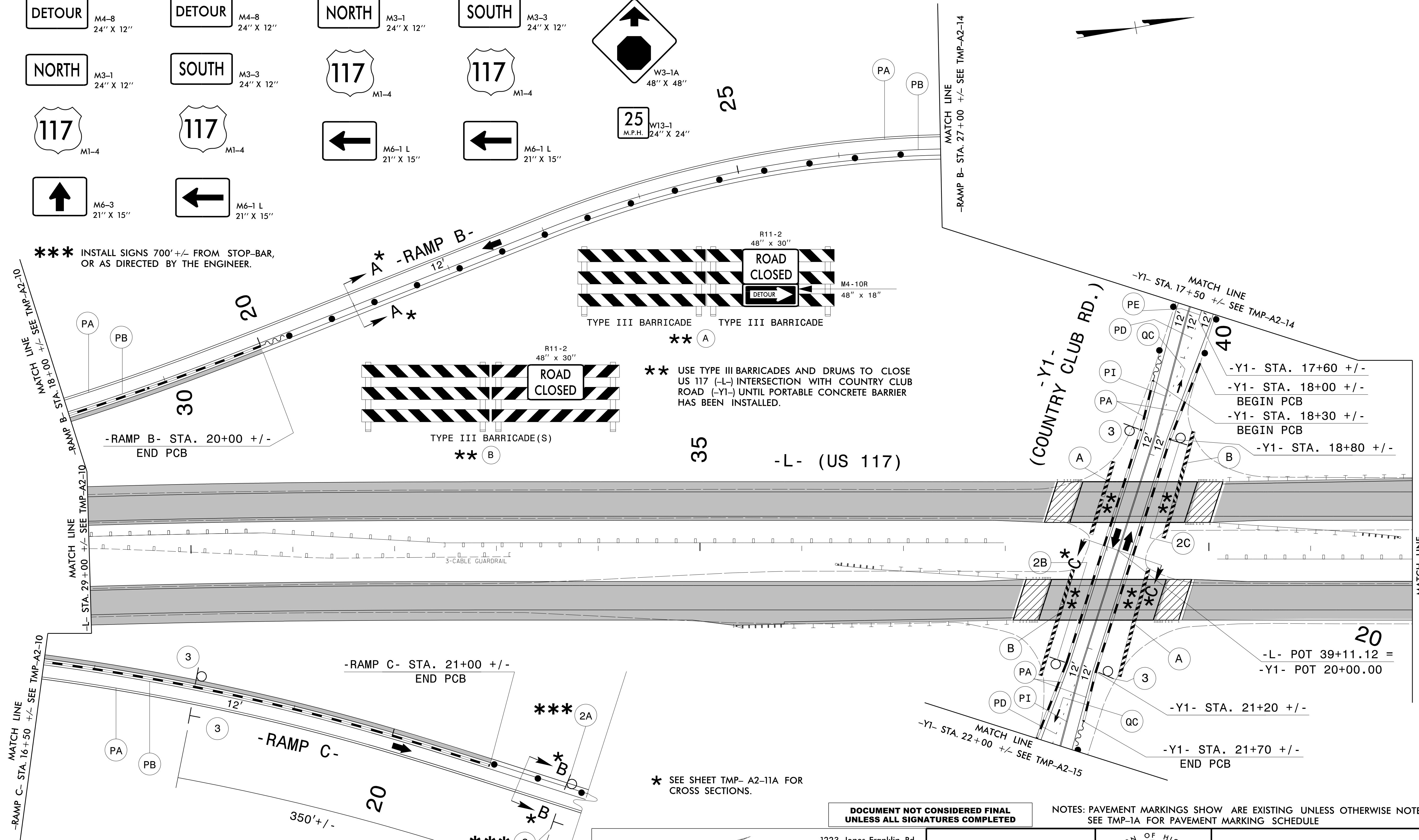


AREA 2 - PHASE II

DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 WORK ZONE TRAFFIC CONTROL



*** INSTALL SIGNS 700' +/- FROM STOP-BAR, OR AS DIRECTED BY THE ENGINEER.



** USE TYPE III BARRICADES AND DRUMS TO CLOSE US 117 (-L-) INTERSECTION WITH COUNTRY CLUB ROAD (-Y1-) UNTIL PORTABLE CONCRETE BARRIER HAS BEEN INSTALLED.

* SEE SHEET TMP- A2-11A FOR CROSS SECTIONS.

**DOCUMENT NOT CONSIDERED FINAL
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NOTES: PAVEMENT MARKINGS SHOW ARE EXISTING UNLESS OTHERWISE NOTED.
SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

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User:skennedy

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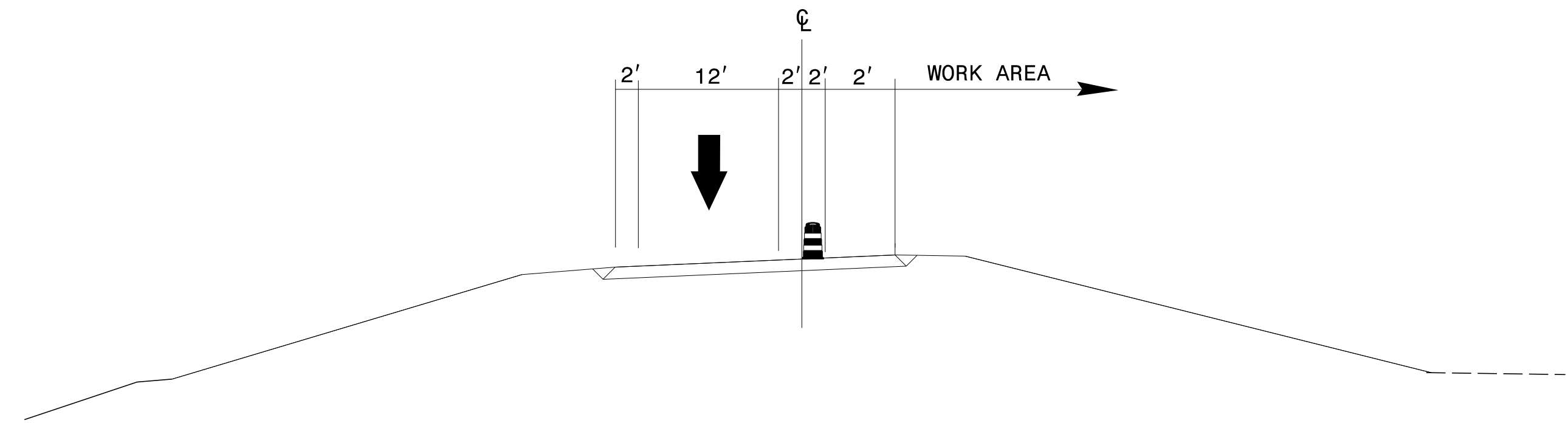
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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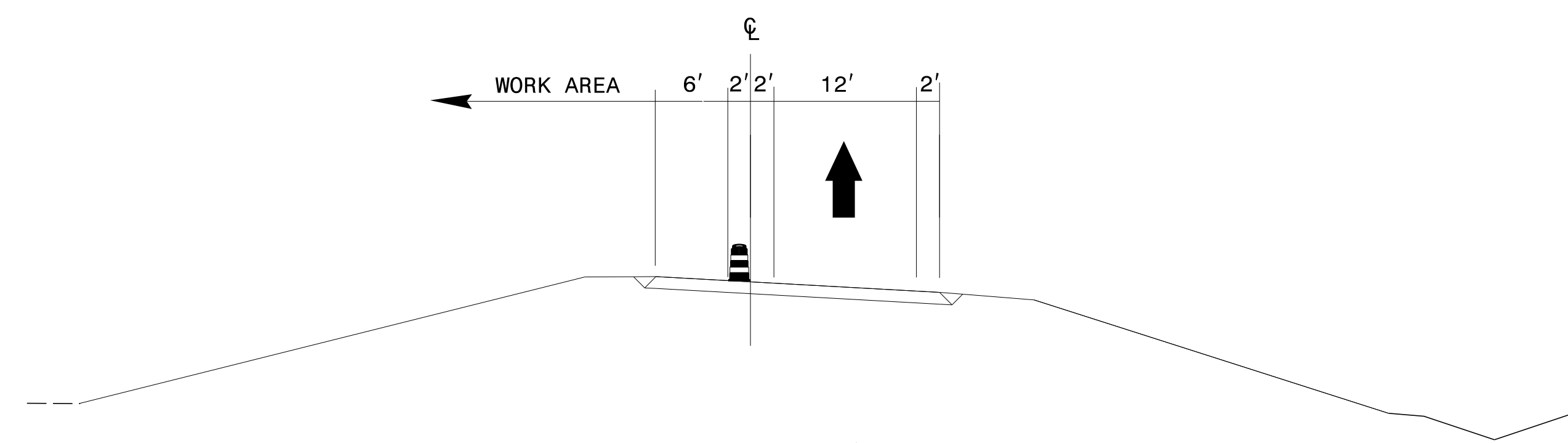
APPROVED: _____
DATE: _____

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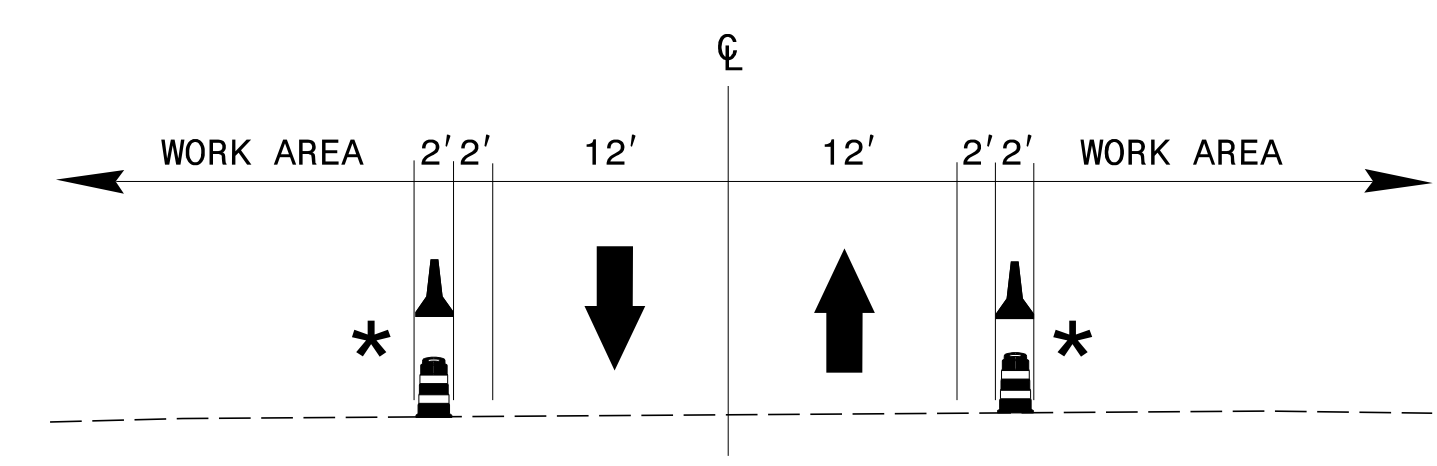
AREA 2 - PHASE II



TYPICAL SECTION A-A
-RAMP B- STA. 21+00 +/-




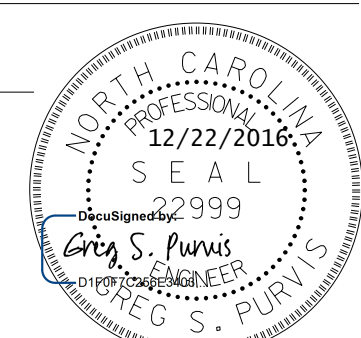
TYPICAL SECTION B-B
-RAMP C- STA. 21+50 +/-

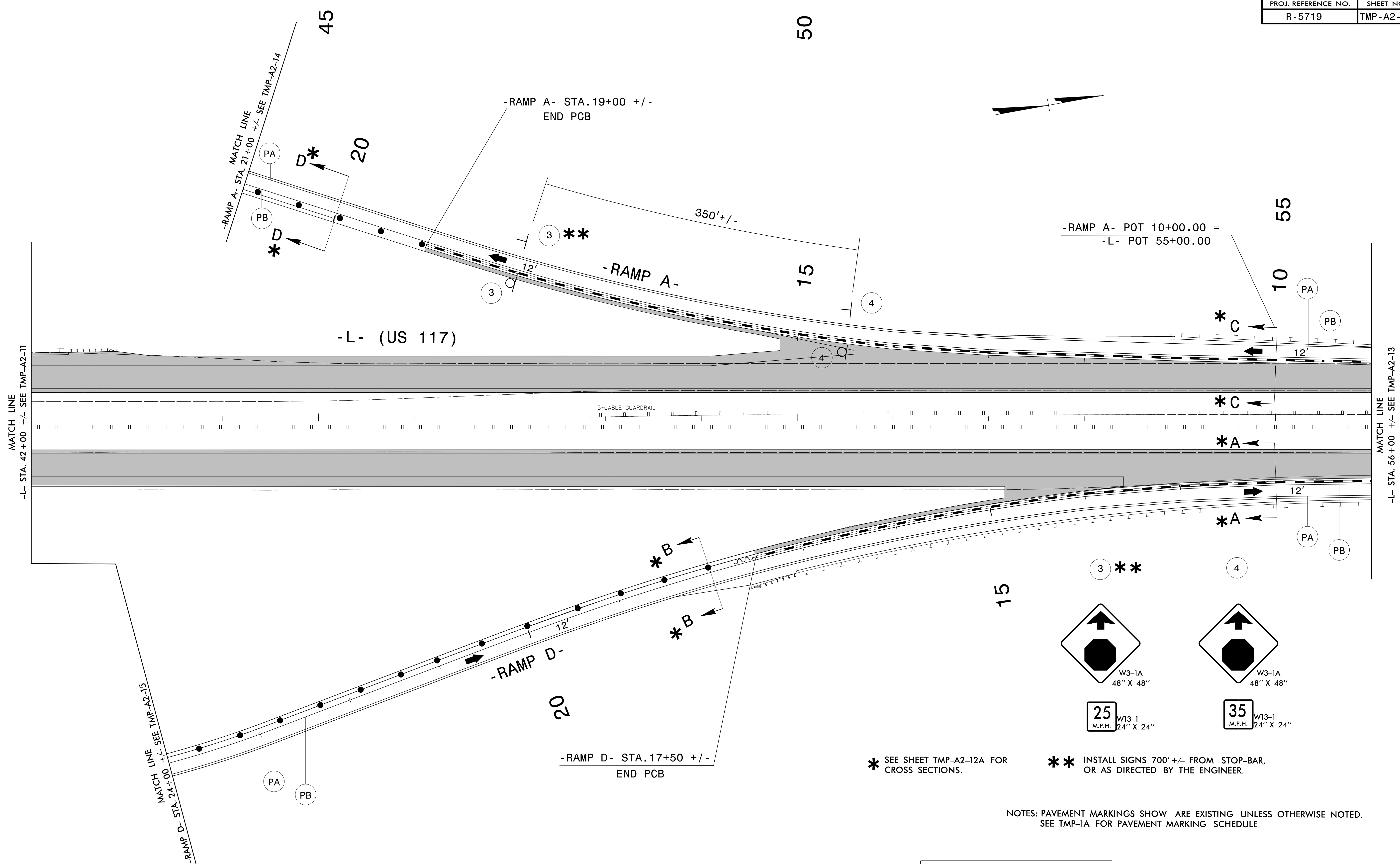


TYPICAL SECTION C-C
-Y1- STA. 20+00 +/-

* USE TYPE III BARRICADES AND DRUMS TO CLOSE US 117 (-L-) INTERSECTION WITH COUNTRY CLUB ROAD (-Y1-) UNTIL PORTABLE CONCRETE BARRIER HAS BEEN INSTALLED.

12/22/2016
P:\2015\NR-5719\TrafficControl\TCPVr5719_TC_TCP_PSH_A2-11.dgn
User:skennedy

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NOTES: PAVEMENT MARKINGS SHOW ARE EXISTING UNLESS OTHERWISE NOTED.
SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

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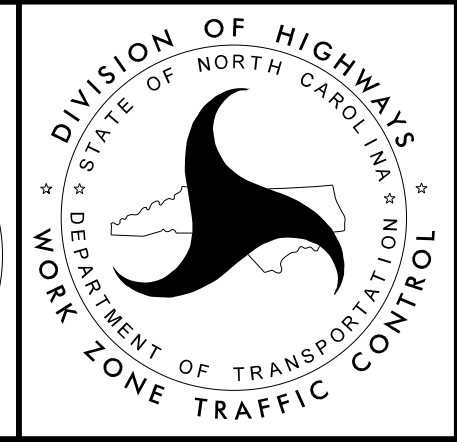
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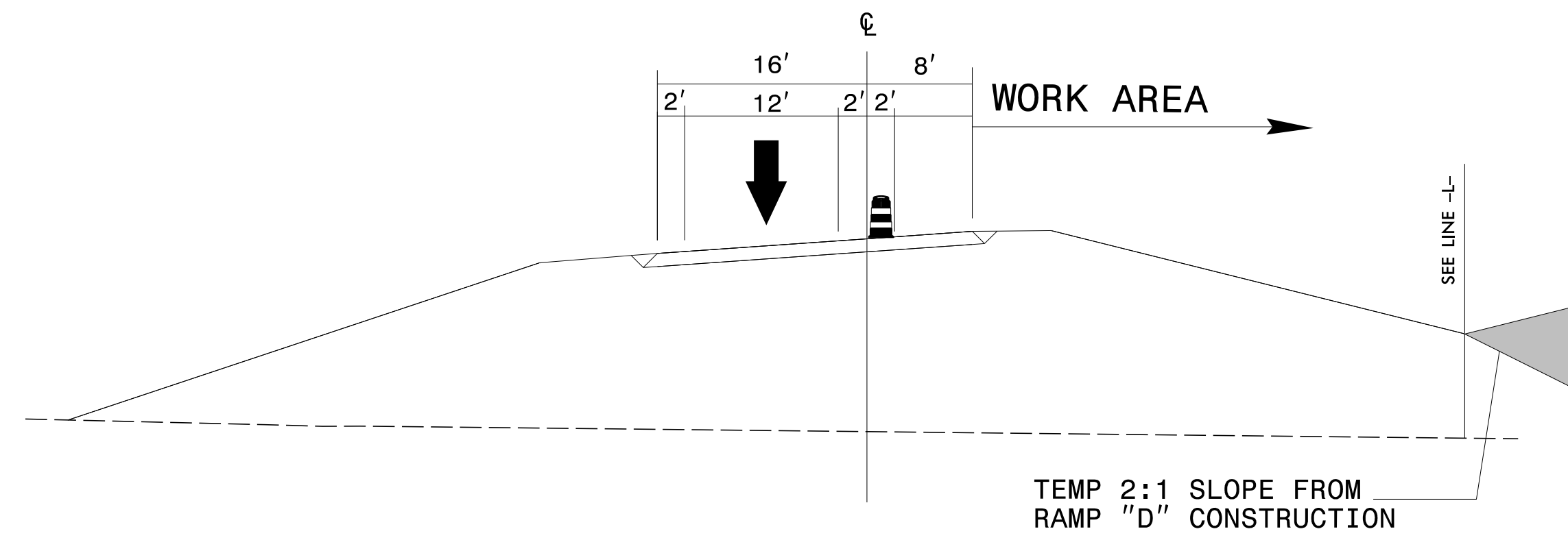
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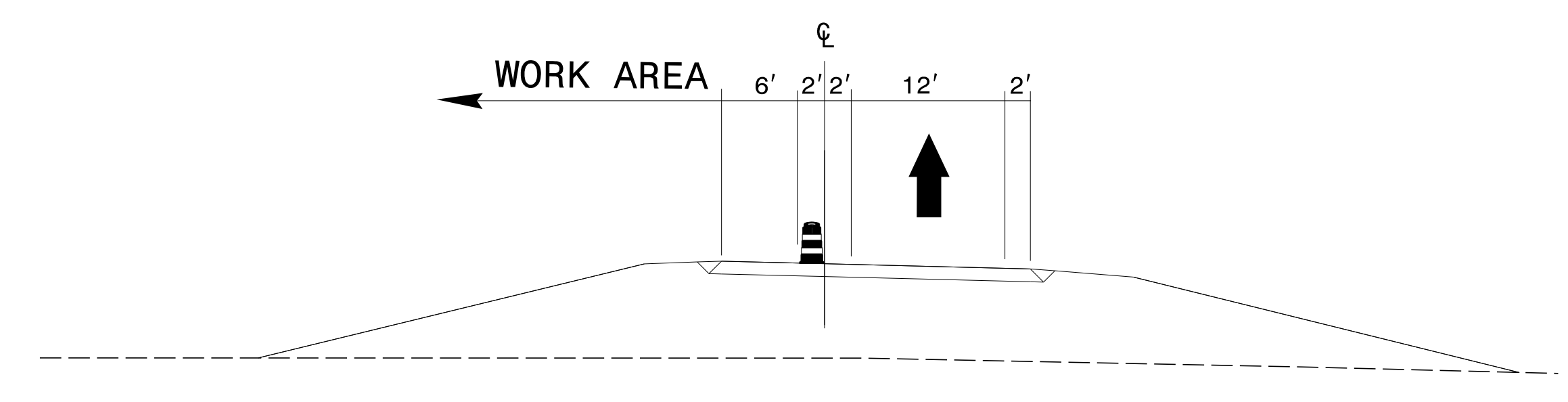


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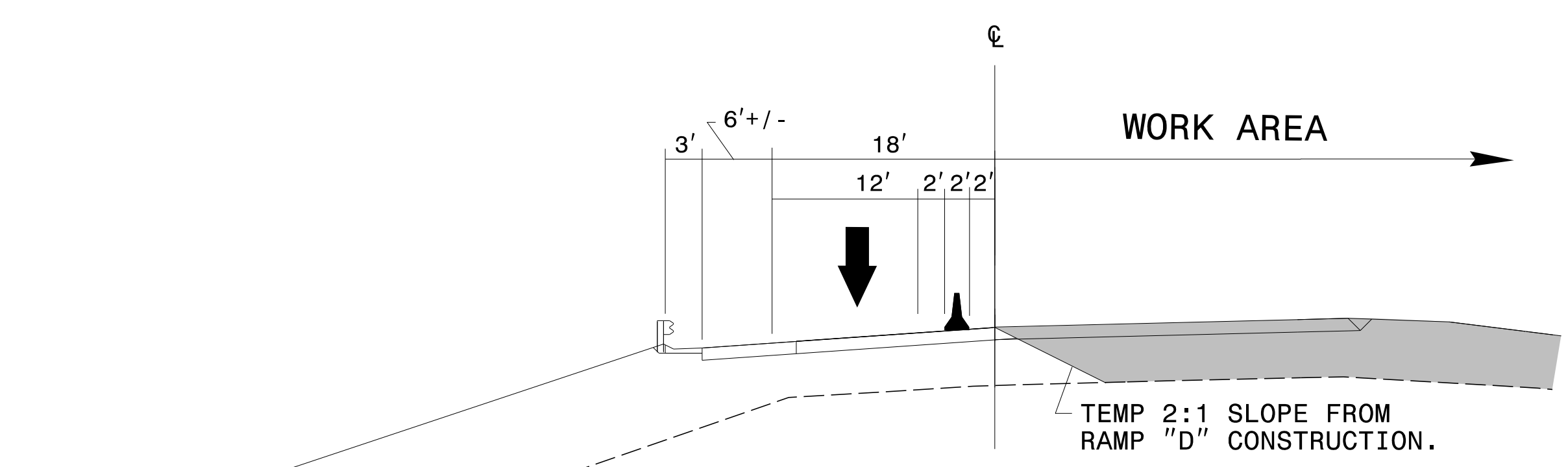
AREA 2 - PHASE II



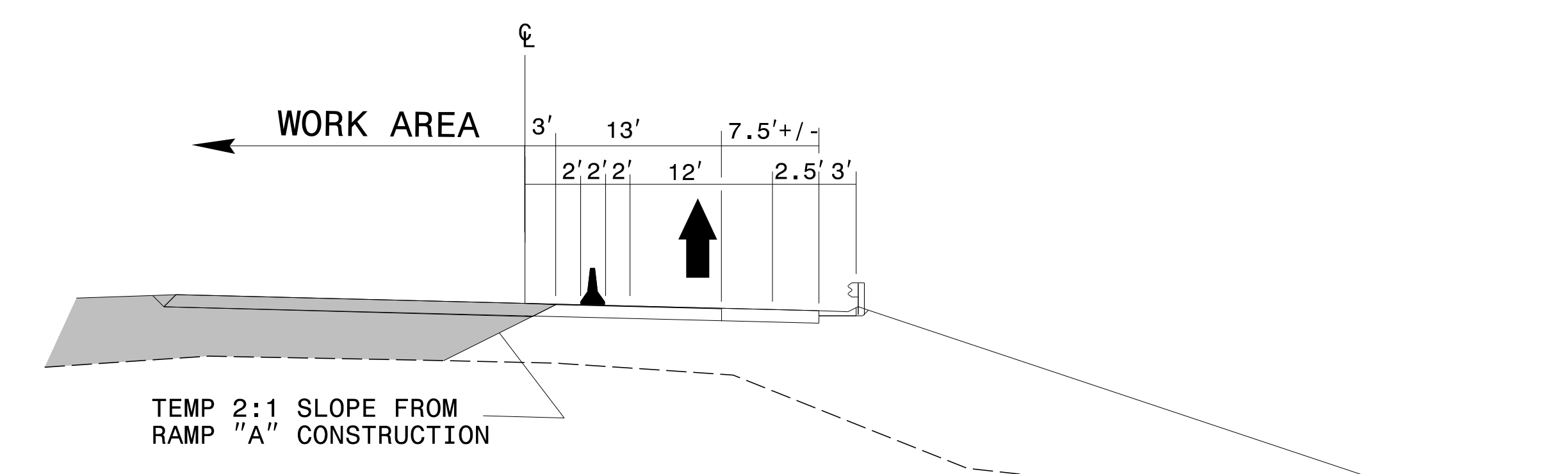
TYPICAL SECTION B-B
-RAMP D- STA. 18+00 +/-



TYPICAL SECTION D-D
-RAMP A- STA. 20+00 +/-

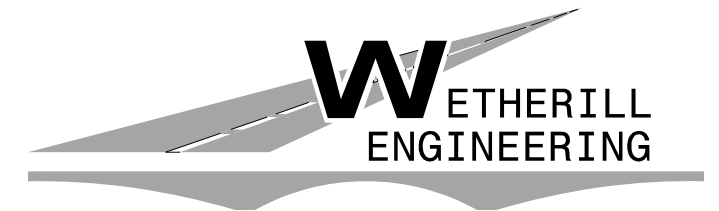
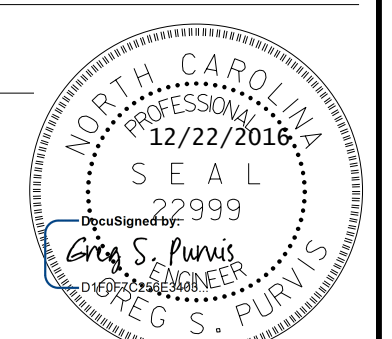
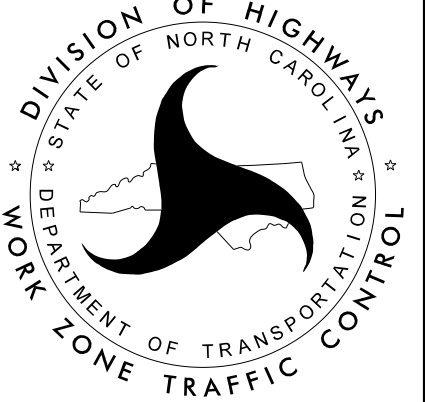


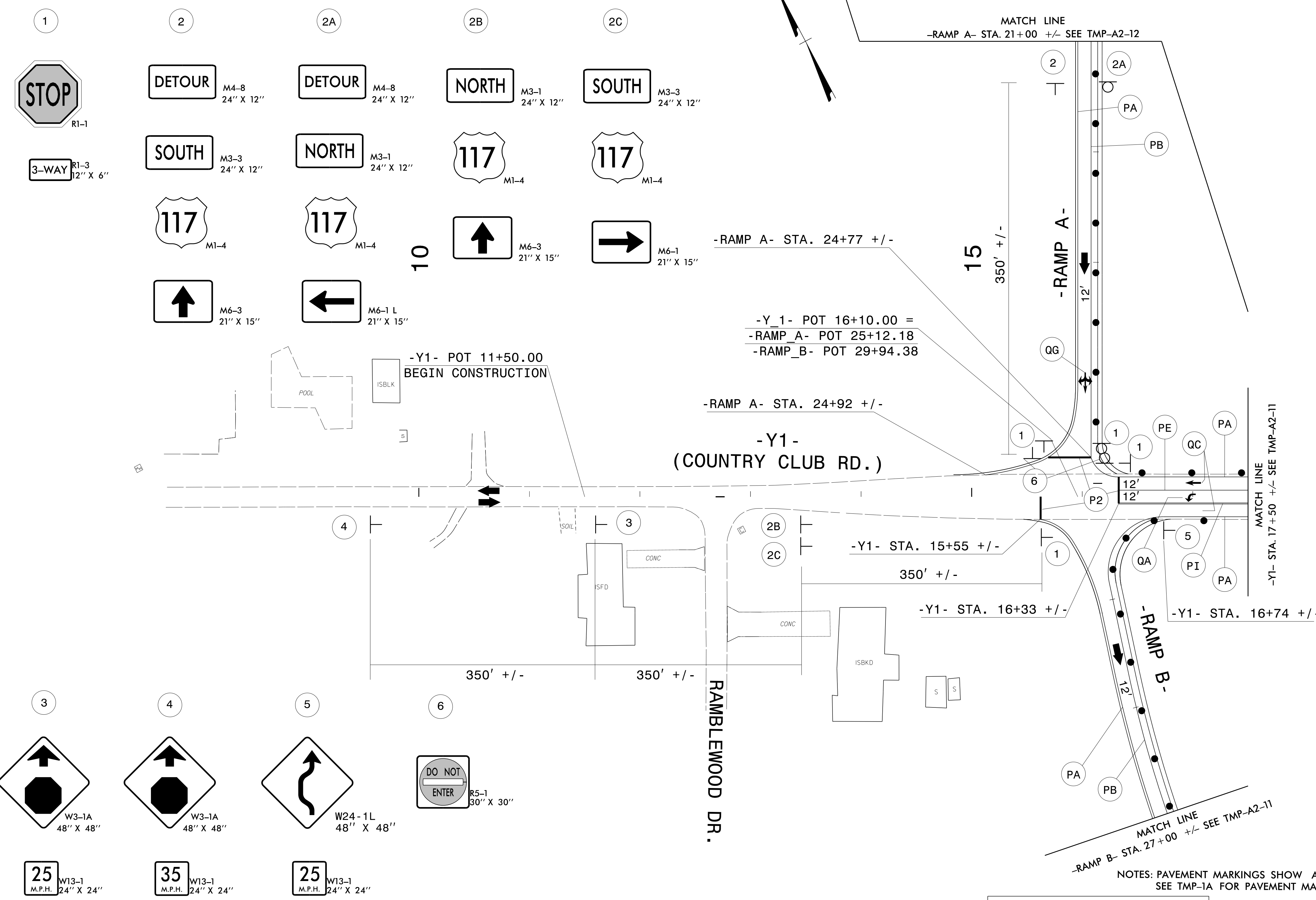
TYPICAL SECTION A-A
-RAMP D- STA. 12+00 +/-



TYPICAL SECTION C-C
-RAMP A- STA. 10+00 +/-

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SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

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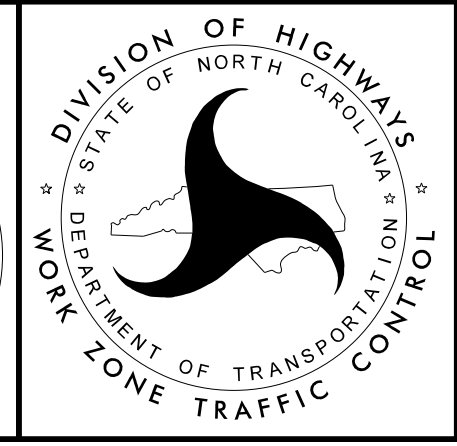
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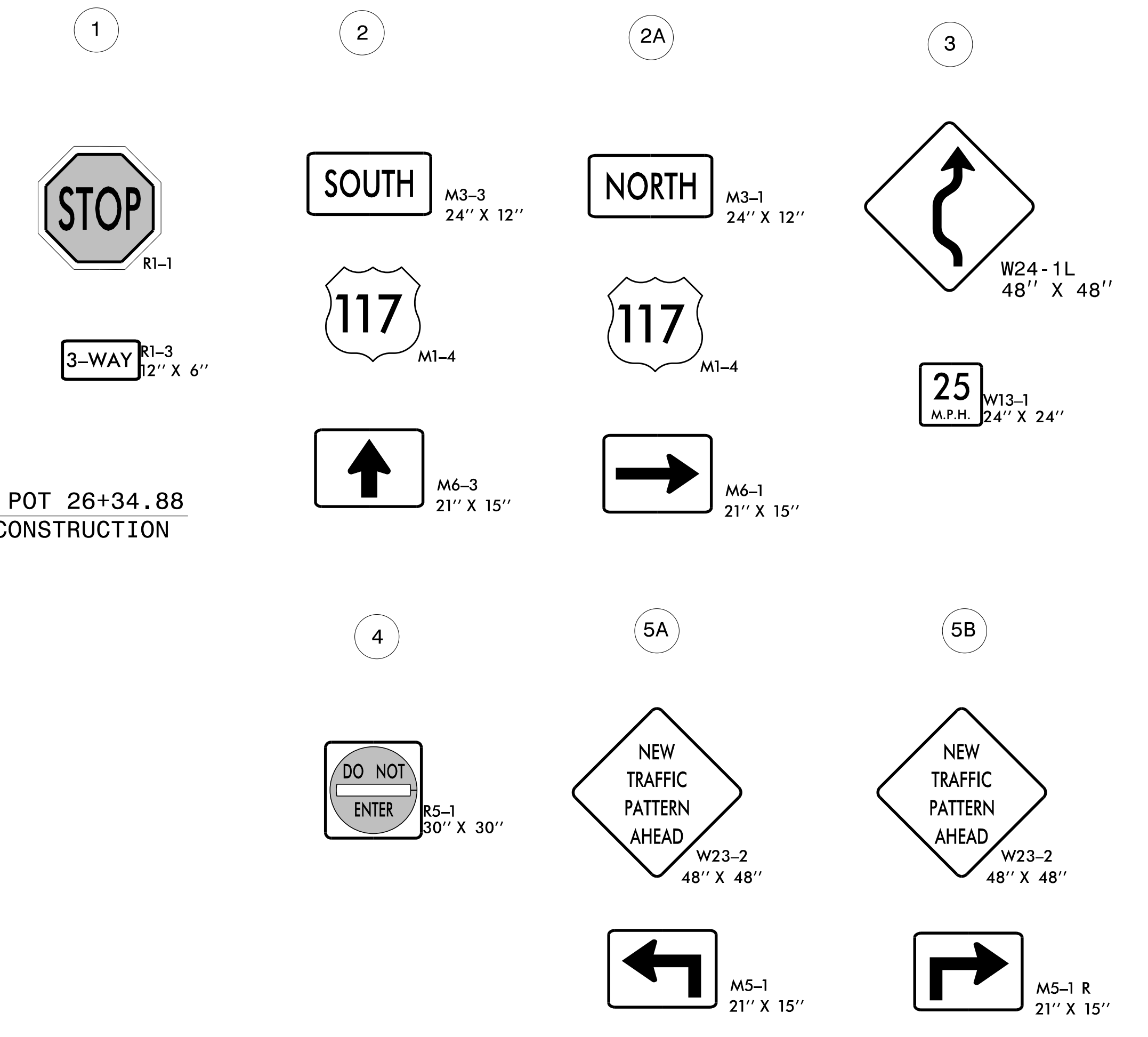
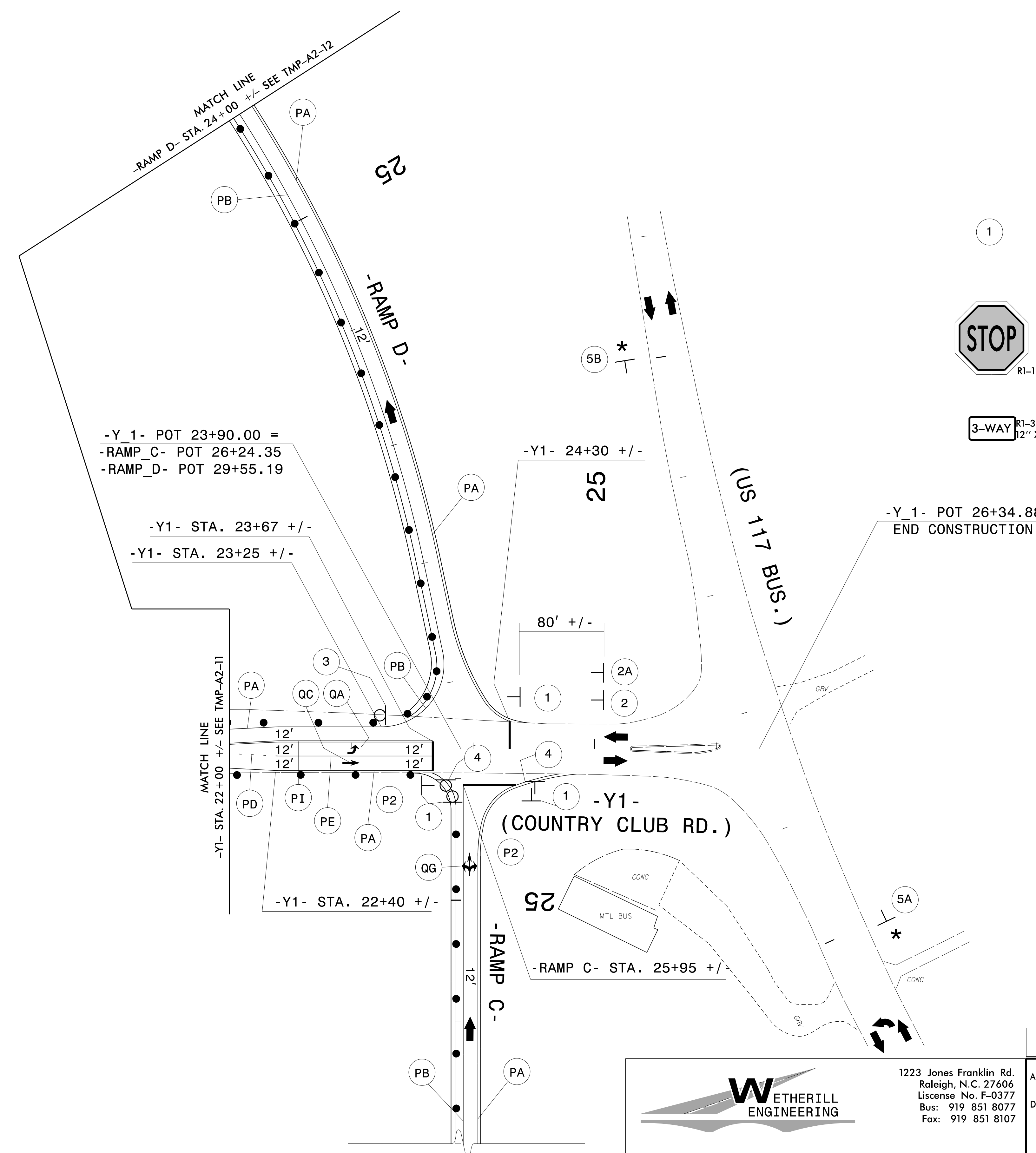
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* INSTALL SIGNS 500' +/- FROM INTERSECTION, OR AS DIRECTED BY THE ENGINEER.

NOTES: PAVEMENT MARKINGS SHOW ARE EXISTING UNLESS OTHERWISE NOTED. SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

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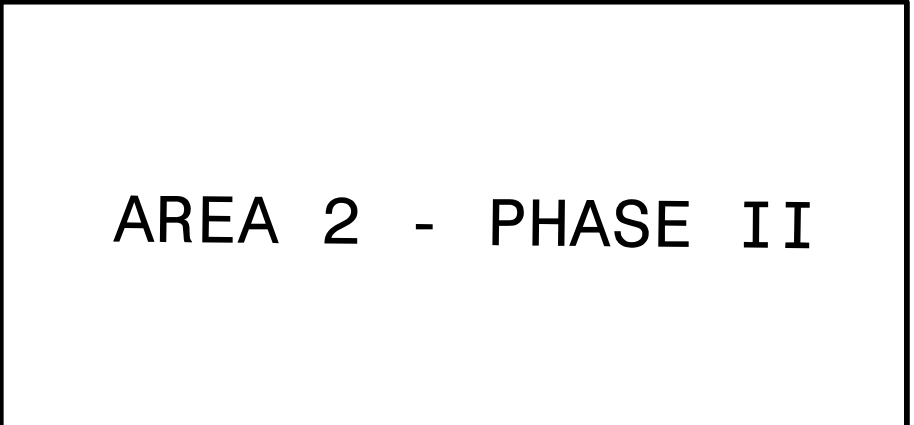
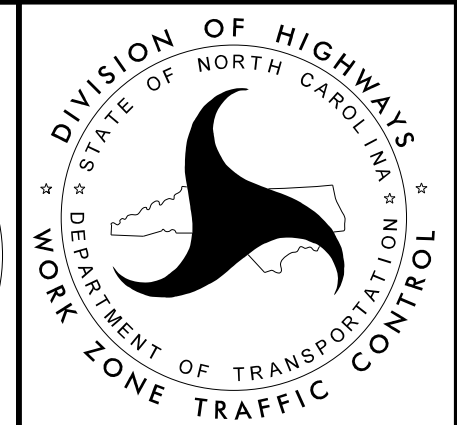
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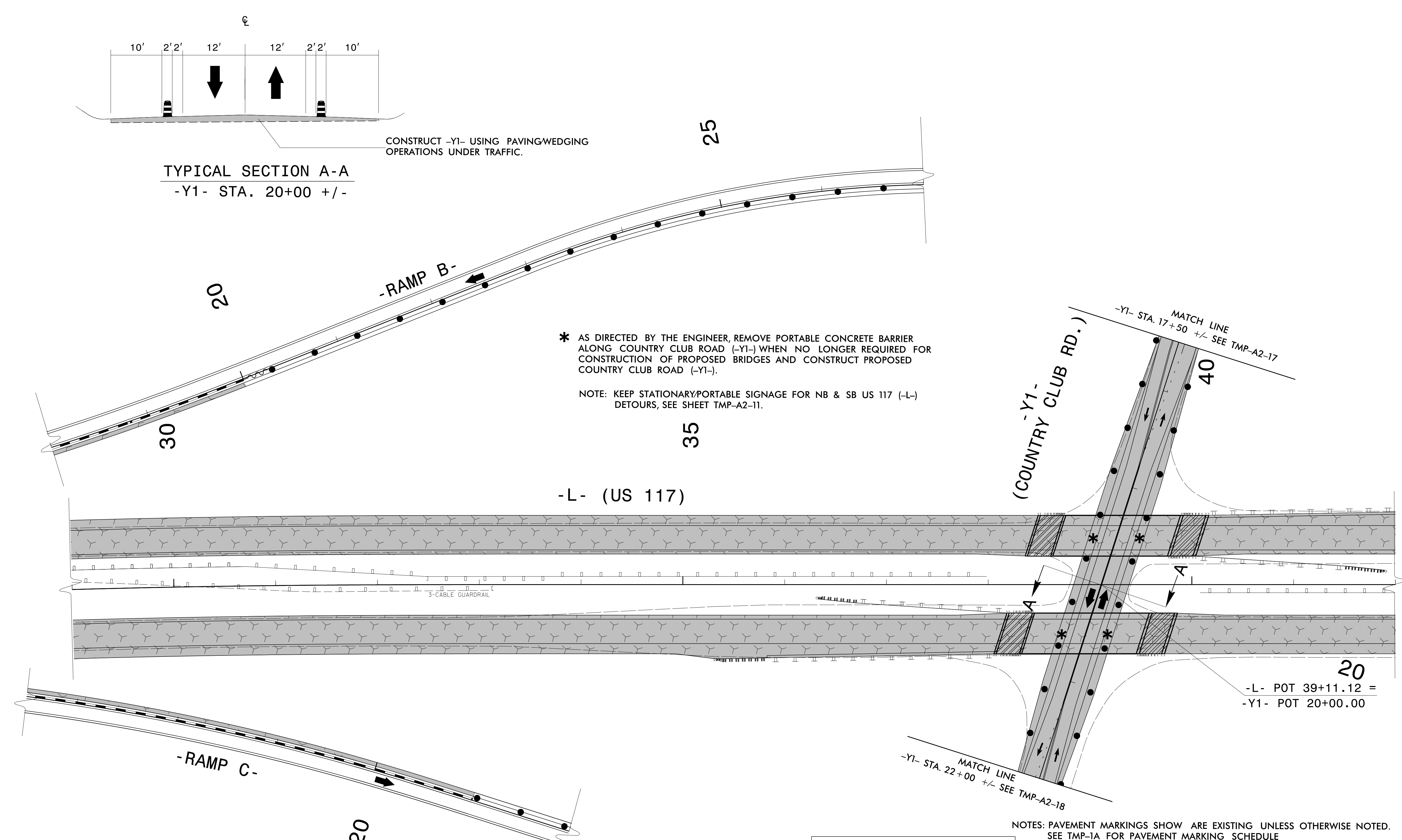
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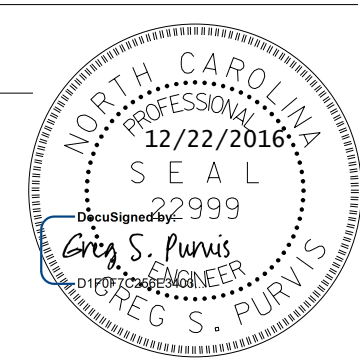

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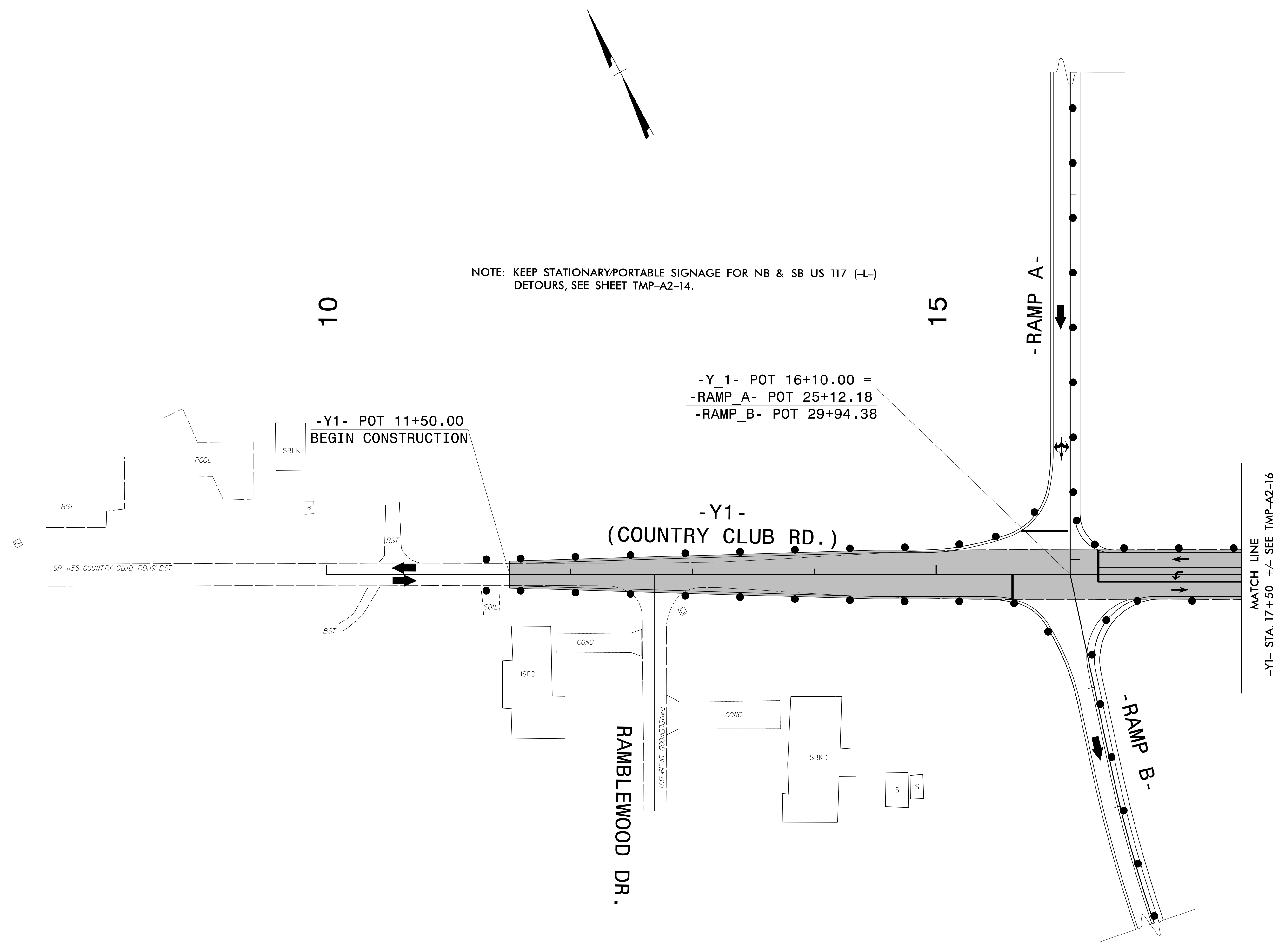
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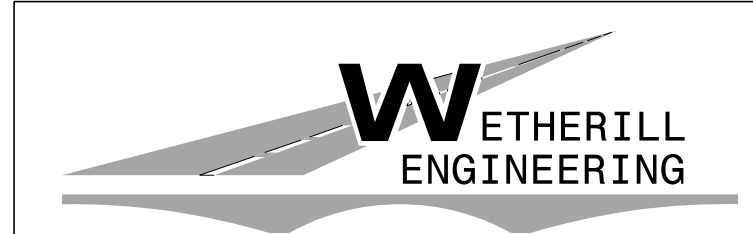
**AREA 2 - PHASE II,
 STEP 4**



NOTES: PAVEMENT MARKINGS SHOW ARE EXISTING UNLESS OTHERWISE NOTED.
SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

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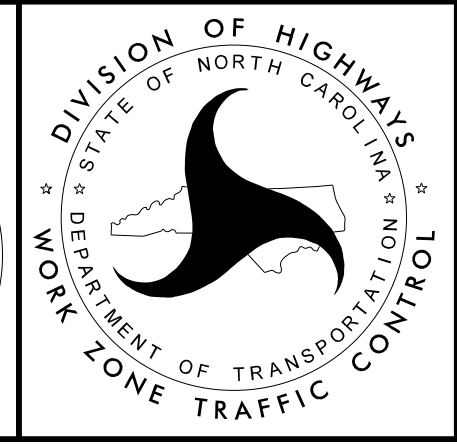


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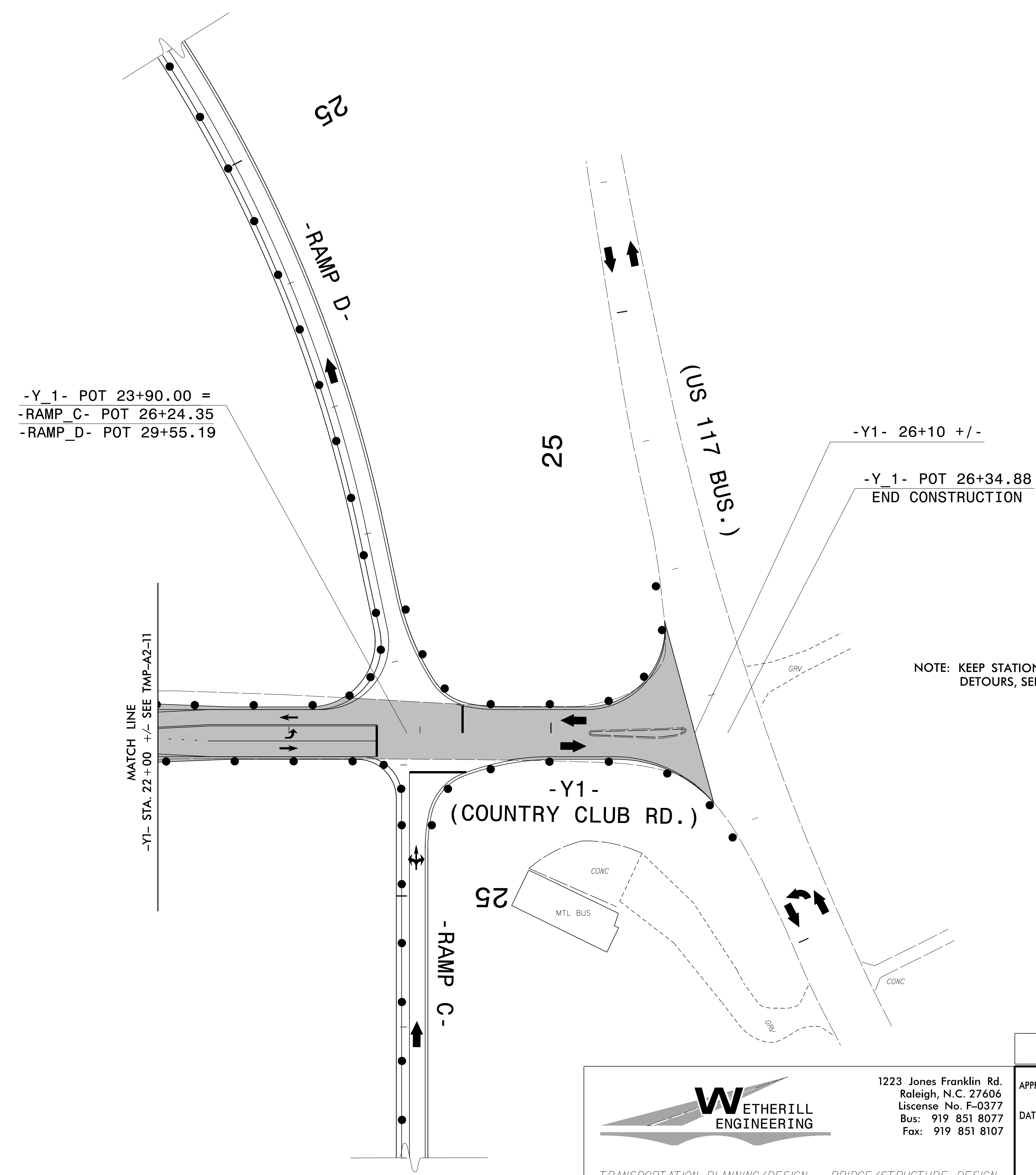
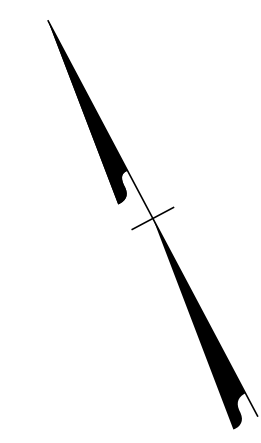
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AREA 2 - PHASE II,
STEP 4



NOTE: KEEP STATIONARY /PORTABLE SIGNAGE FOR NB & SB US 117 (-L) DETOURS, SEE SHEET TMP-A2-15.

NOTES: PAVEMENT MARKINGS SHOW ARE EXISTING UNLESS OTHERWISE NOTED. SEE TMP-1A FOR PAVEMENT MARKING SCHEDULE

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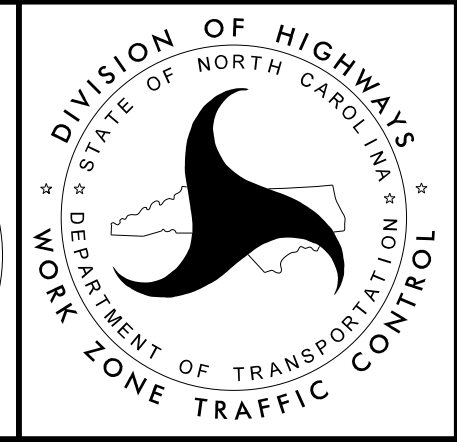
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**AREA 2 - PHASE II,
STEP 4**